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Dr. E. B. SHUTTLEWORTH
First Dean of
The Ontario College of Pharmacy,

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THE LANGUAGE OF MEDICINE

A MANUAL GIVING THE ORIGIN,
ETYMOLOGY, PRONUNCIATION, AND MEANING OF
THE TECHNICAL TERMS FOUND IN
MEDICAL LITERATURE

BY

F. R. CAMPBELL, A. M., M. D.

PROFESSOR OF MATERIA MEDICA AND THERAPEUTICS,
MEDICAL DEPARTMENT OF NIAGARA UNIVERSITY

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TO

EDWARD MOTT MOORE, M. D., LL. D.,

EMERITUS PROFESSOR OF SURGERY, MEDICAL DEPARTMENT,
UNIVERSITY OF BUFFALO.

IN HOMAGE TO HIS RIPE SCHOLARSHIP, HIS GENIUS
AS A SURGEON, AND HIS SKILL AS A TEACHER, THIS
BOOK IS GRATEFULLY INSCRIBED BY HIS FORMER PUPIL,

THE AUTHOR.

PREFACE.

THE object of this work is to provide the medical student with a suitable means of acquiring the vocabulary of his science. Like Shakespeare, the great majority of medical students have but "small Latine and lesse Greeke." Even those who have enjoyed the advantages of literary colleges are often unable to apply their knowledge of the classical languages in determining the etymology and meaning of ordinary medical words, partly because the classics are studied more from a literary than a philological point of view, but largely because the words most used in medical works seldom appear in the Latin and Greek with which they are familiar.

In studying mathematics or grammar the pupil begins with definitions of the new words to be employed. In medicine, also, much valuable time could be saved if the student would first master the meaning of the technical terms by which the principles of the science are to be carried into his mind. The words must be understood before thoughts which they convey can be comprehended. In the first part of this work are discussed many of the elementary principles of philology and etymology, illustrated by common words occurring in medical literature. Coleridge has said that we may often derive more useful knowledge from the history of a word than from the history of a campaign. In medicine we may often obtain more practical benefit from the study of some word with an account of the errors involved therein, than from the study of a new theory which rises like a balloon only to burst like a bubble. A brief history of medicine, from a linguistic

point of view, is given in order that the sources of our technical words may be known.

In part second will be found the majority of the Latin words used in medical works. The principles of Latin grammar which are employed in nomenclature and prescription writing are discussed and exercises for translation are given in order that the student may fix the words and grammatical principles in his mind.

The subject of orthoepy is incidentally discussed and a list of many words commonly mispronounced is given. The majority of these have been collected in the class-room, but many, very many, have been mispronounced by medical society orators and college professors who have persisted in propagating their orthoepical blunders through the medical profession until one hesitates before pronouncing some words correctly for fear of being misunderstood.

In part third will be found the principal words of Greek origin with a description of the method of converting Greek words into Latin and English. In part fourth are collected the majority of the words transferred from the modern foreign languages into our medical vocabulary. In determining the correct etymology of words the author has, in the main, followed Curtius, Skeat, and Halsey. But philologists, like doctors, sometimes disagree, and in these cases the writer has selected what appeared to him the most reasonable derivation.

It may be urged that this work should have been undertaken by a professor of the languages rather than by a physician. But the teacher of languages knows comparatively little of the real needs and defects of the average medical student, while a physician reasonably familiar with the ancient and modern languages is able to apply his linguistic knowledge in

دول برده برده جون کورد
تایرده برده جون کورد
مسخ برده جون کورد
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PREFACE.

a manner at once more interesting and instructive to the medical student.

In conclusion, the author must acknowledge his indebtedness to the following authors, for without their aid the preparation of this book would have been an impossibility:—

ANDREWS, *Latin-English Lexicon.*

BIONDELLI, *Studii Linguistici.*

BRACHET, *Dictionaire Etymologique de la Langue Francaise*

CURTIUS, *Grundzuege der Griechischen Etymologie.*

DARMESTER, *Life of Words as the Symbols of Ideas.*

Encyclopædia Britannica.

FARRAR, *Origin of Language.*

HALSEY, *Etymology of Latin and Greek.*

LIDDELL and SCOTT, *Greek-English Lexicon.*

DR. MEREDITH, *Errors of Speech.*

PAREIRA, *Physicians' Prescription Book.*

SKEAT, *Etymological English Dictionary.*

THOMAS, *Medical Dictionary.*

TRENCH, *On the Study of Words.*

WHITNEY, *Language and the Study of Language.*

FREDERICK R. CAMPBELL.

BUFFALO, N. Y., *January, 1888.*

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PART I.

ORIGIN OF THE LANGUAGE OF MEDICINE.

CHAPTER I.

INTRODUCTION.

SCIENCES and arts, like nations, have languages of their own. When a nation makes progress in civilization, new words are formed to express new thoughts and discoveries. When old institutions die out, the words used to symbolize them disappear. So it is with the language of a science; with each new theory or discovery a new word is born; with each exploded hypothesis or abandoned instrument an old word dies. Words in a language like the cells of an animal are constantly forming and dying, this process being one of the surest indications of life. To use the words of a poet:—

“Life itself is but a rider
On the myriad steeds of death,
Since some tissue, some secretion
Lives and dies at every breath.
But the force which binds the atoms,
Which controls secreting glands,
Is the same that guides the planets
Acting by divine commands.”

Nations disappear from the political map of the world and we often speak of them and their languages as “dead;” but their life is not really gone, for their blood is mingled with that of their conquerors and the words used to designate truths discovered by them are retained as monuments, to tell the story of their customs

and civilization. There is no longer a Roman empire but Latin is the basis of the languages of five great nations and has exerted a lasting influence upon the vocabularies of every civilized race. The so-called sciences of alchemy and astrology have long slept in the dim and dusty past, but many of the terms employed by their devotees still exist in scientific nomenclature.

Many of these words have assumed meanings entirely different from the original. *Al eksir*, elixir, with the alchemists meant, the philosopher's stone, but is now applied to an agreeable preparation of a medicine. So also many words which arose from strange medical notions, long ago abandoned, still remain in our language with their forms and significations more or less changed. *Mania*, Greek *μανία*, or *μῆνις* as used by Homer, is derived from the same root as *μήν*, the moon, and meant originally, the moon sickness, being the exact counterpart of the Latin *lunaticus* from *luna*, the moon. These words are still employed to designate states of mental aberration although we ridicule the aetiological notions involved in them.

A careful study of the etymology of medical terms would enable us to reconstruct, in a measure, the history of our art, just as the geologist from strata and fossils, tells the story of the earth's creation and the development of all the life it now contains. By examining the silt at the mouth of a river we can determine the character of the soil through which the waters have passed; so also we can discover in the ancient medical words which have drifted down through the ages, indications of the sources of our knowledge, of our past errors and successes. We still talk of *plagues*, a word derived from *πληγή*, a blow inflicted by the almighty gods to wreak vengeance upon guilty mortals; of *melancholy* from

μέλας black and χόλη bile, which was supposed to cause this affection; of *poultices* which are no longer bean puddings or porridge, πόλιτος; of *arteries*, from ἀρτηρία a wind pipe or air tube, because they were supposed to contain nothing but air; and yet the original ideas represented by these words have long since faded from our view. In fact, as Archbishop Trench has shown, we find poetry, history and ethics in words, even in medical terms, which are supposed by those ignorant of their history, to be the symbols of the driest of facts and ideas.

Saturn, one of the gods of the older school, has come down to us in *saturnine* poisoning; Mars, the god of war and iron weapons, has given us the *martial* preparations; Jupiter Ammon, the horned god, is remembered in *ammonia*, hartshorn; some of our instruments are of *Vulcanized* rubber; Mercury, as a Roman, has presented us with *mercurial* preparations, as a Greek with name of Hermes, (Ἑρμης) he sees that our tubes are *hermetically* sealed. Venus, as a Roman, has a particular portion of the female anatomy, the *mons veneris*, dedicated to her memory, while she has sent us a host of diseases, the venereal, which are very remunerative to the doctor but not very complimentary to herself. As a Greek goddess with the name of Aphrodite, (Ἀφροδίτη) we see her in the class of *aphrodisiac* remedies. Eros (Ἔρως), the Greek Cupid is remembered in *Erotomania*, Psyche (Ψυχή) his companion in *psychiatry*, and from Iris, the messenger of the gods, we now extract a cholagogue. All Olympus thus seems to have been interested in medicine, while demigods, nymphs, satyrs, and naiads stroll through the various branches of our science giving their names, here to a plant used medicinally, and there to a disease, symptom, or part of the body.

When we speak of the *tendo Achillis* we are reminded of that classical tale relating how the son of Peleus was held by the heel and dipped by his seaborne mother into the river Styx to make him invulnerable; how this particular tendon and the parts about it were not immersed, and how Paris succeeded in inflicting a mortal wound in this locality. There is poetry too in the names of drugs and plants. *Phosphorus* ($\varphi\tilde{\omega}\varsigma$ light $\varphi\acute{\epsilon}\rho\omega$ to carry), is the morning star, the light bearer; *Cypripedium* in Venus's slipper, from *Cypris* one of her names; while *morphine* recalls *Morpheus*, the changing god of dreams, who lulled mankind to sleep.

Even the names of diseases, strange as it may seem, contain metaphors and other poetical figures. *Carbuncles* are like the purple reddish gems of the same name, *icterus* (Greek $\iota\kappa\tau\epsilon\rho\varsigma$) is the name of the yellow bird, while *iliac passion* is a phrase which recalls the spear thrust and the tragic sufferings on the Cross. History is found everywhere illustrated in words, *calculate* and *testify* take us back to the days when men told members with pebbles, *calculi*, and cast their votes with shells, *testae*. *Gentianus* of Illyria is said to have discovered the virtues of the plant named after him. *Magnets* were first known in Magnesia, chalk, *creta*, in Crete.

We all know what *cretinism* is, yet few are aware that *cretin* and *Christian* were originally the same word. The Arian refugees of the Pyrenees were anciently called *Christaas*, in French *Chretiens* or Christians. Long residence in the dim valleys with frequent intermarriages of blood relations in time developed a peculiar form of idiocy associated with enlargement of the thyroid gland. People afflicted with this malady are still called Christians under the name *cretins*, while *cretinism* means etymologically Christianity.

Idiocy also has a historical origin. The ancient Athenians were a nation of politicians. Those who did not hold office were designated as *ιδιώται*, private citizens, to distinguish them from the office holders. In time a man who was not a public servant and had never had an opportunity to serve the state as such, was looked upon as a person of very inferior mental capacity, and finally *idiocy* assumed a meaning among the Ancient Greeks quite similar to that which we now assign to it.

There is in mankind a tendency to call impure things by better names than they deserve. This custom, called *euphemism* is frequently illustrated in medical nomenclature, and we find the names pagan divinities who once tuned the harps of poets and inspired the genius of artists, applied to parts or functions of the body whose vulgar names we would be ashamed to write. Venus in our art is not the goddess of love, but of lust, Priapus has nothing to do with the fertility of gardens, but is distinguished only for his enormous *membrum virile* in a constant state of erection; satyrs and nymphs no longer sport by babbling brooks on vineclad hills, revelling in choral dances with Pan and Bacchus, but are famed only for their salacity, and Hymen, the god of marriage and of nuptial songs is remembered only by a delicate female membrane supposed to be ruptured on the wedding night.

When we recall the numerous allusions in our science to the heathen deities of old, the "sacred disease," *epilepsy*, the "sacred fire," *crysipelas*, the "sacred muscle," *transversalis lumborum*, and the "sacred bone," *os sacrum*, we feel that our art is still redolent with the paganism and superstitions of antiquity. When we think of "St. Anthony's fire," "St. Vitus' dance," and St. Ignatius' bean, we wander to mediæval shrines

more pious but not less superstitious. But with all these relics of vagaries and past errors, our science is still advancing to a higher plain, and the day may come when the comma bacillus, the gonococcus, and many other terms will likewise be classed among words marking the delusions of the past; for many a hypothesis supported by the ablest of physicians, has disappeared from the pages of our medical books leaving only a few words, like fossils, to tell future generations the story of their rise and fall.

CHAPTER II.

THE HISTORICAL SOURCES OF THE LANGUAGE OF MEDICINE.

IN tracing the history of the English language we learn that the earliest known inhabitants of Britain were the Celts whose language has left but few traces in our vernacular. Then came the Saxons, sweeping all before them and forcing their vocabulary upon the original inhabitants who were not destroyed or driven into the mountain fastnesses. A few centuries later the Normans conquered the Saxons, and, although they could not abolish the vocabulary of these Teutons, they forced many words upon them, and the language of England became a Normanized Saxon. The Christian Church, with its Latin tongue, and the revival of Greek learning, in their turn brought many erudite terms from these sources into the English language, while the Crusades, commerce, and Continental wars have introduced many more foreign terms, making the English language what it is to-day.

In a similar manner we may trace the developmental history of the language of medicine, which, like the language of a nation, has a story and a dictionary of its own. The art of medicine was born with the Aryan race, but the language of the Aryans, like that of the Celts, has had only an indirect influence upon the subsequent vocabularies. The Greeks cultivated medical science until it attained a high degree of development; then, as the Normans conquered the Saxons, so the Romans conquered the Greeks, and the language of medicine became a Latinized Greek, as, in the former

case, it became a Normanized Saxon. For half a millennium in the middle ages the true science of medicine dwelt with the Arabs, and when it came back to Latin-speaking countries it brought some Moorish words and notions in its train. Then, when Greek learning was revived in the fifteenth century, many of the older terms, which had been lost, were again restored, and Greek has remained the favorite source from which we derive medical terms at the present day, although, of late, many words from various modern languages, especially the French, have found their way into our medical literature.

We will now discuss the sources of our medical terms in a more detailed manner.

An eminent comparative philologist has devoted considerable attention to the language and civilization of the primitive Aryans. Although there are no written specimens of their tongue, and no tabulated history of their nation, he has been able to gather a great deal of interesting information from the roots of Aryan words found in other languages, thus reconstructing their vocabulary and grammar, much as the geologist, from a single fossil bone, will picture to you the antediluvian animal of which it formed a part. He thus discovers that this ancient people rode in carts drawn by oxen, wore clothes made of wool, had a religion with a priesthood, and employed physicians.

Sanskrit, the sacred language of the Hindoos, is the elder brother of the Indo-European linguistic family, and of this we possess some very ancient books on medicine and other sciences. Long before the days of Homer, at least a thousand years before Christ, these Hindoos possessed a knowledge of medicine which was not surpassed by that of the Greeks in the days of Hippocrates. The *Ayur Veda*,

with the commentaries of *Charaka* and *Susruta*, were probably in existence at that early date, and there is considerable evidence that the *Ayur Veda*, the oldest medical treatise in the world, is an abridgement of a still older and larger work. The dignity and ethics of the medical profession of that ancient race have never been surpassed. Before the young Brahmin was allowed to study medicine, he must pass a special examination in regard to his moral and intellectual attainments. In his final examination, so various and extensive were the qualifications desired, that, it is said, "they were never found combined in a single mortal on earth, and but rarely in heaven." There were laws enforced by the Rajah regulating the practice of medicine and the suppression of quackery. "The charlatan may be known," says *Susruta*, "by his vanity and his ill-will toward the good physician. He flatters the patient's friends, takes reduced fees, is hesitating and doubtful in performing difficult operations, and pretends that his want of success is caused by bad attendants. Such persons avoid the society of the learned physician as they would a jungle." *

The ancient Hindoo physician was familiar with practical anatomy. All the larger viscera of the body were known and named. *Susruta* says: "A holy man (physician-priest) should dissect, in order that he may know the internal structure of the body." He also gives minute directions for the selection of a subject. Seven kinds of joints were known and described, nerves were distinguished from tendons, and the different layers of the skin had been discovered. Pathology, like that of the Greeks at a later period, was based upon humors. Indeed, this humoral pathology remained in medical science until the last century, and traces of it still exist

* Dr. H. T. Wise, "History of Medicine," Vol. I.

in our language. "Salt rheum," from ῥεῖμα, a humor, is a common expression with the laity. What does it mean? Merely that there is a salty humor in the blood. Rheumatism meant, originally, to be full of humors, from the Greek ῥευματισμός. The proper mixture of the humors produced temperaments, from *tempero*, to season or restrain. Thus there are bilious, lymphatic, sanguine and mixed temperaments, depending upon the preponderating humor. When we say that a horse has the *distemper*, we mean, literally, that the equilibrium of humors has been impaired.

So much for this diversion from our subject. In materia medica the Hindoos had made great discoveries. The properties of many plants were known; leeches were used; common salt, borax, sulphur, four kinds of mercury, antimony, zinc, iron and arsenic were all administered in a remarkably intelligent manner. Surgery was also highly developed. Susruta gives directions for performing lithotomy, laparotomy, hysterotomy, and various autoplasic operations, particularly rhinoplasty. Physicians from India traveled through the world performing operations and attending the sick. It is probable, though not certain, that they visited Greece, and it may be that the lithotomists whom Hippocrates mentions as being the only ones who should perform the operation for removing stone, were Indians, and far better surgeons than the Father of Medicine himself. We know that when, shortly after the death of Hippocrates, Alexander the Great invaded Asia, Indian physicians possessed of wonderful skill, even being able to raise the dead, were mentioned by Arrian. It is also claimed that many of the Hippocratic treatises are mere translations of Hindoo works. In scarcely any other way can we account for the remarkable knowledge of

anatomy displayed by the Greeks at this time, for we know that practical anatomy was unknown to Hippocrates. Another evidence that Greek medicine was indebted to that of the Hindoos may be deduced from the fact that many drugs employed by the Greeks have Hellenized Sanskrit names. The following may be mentioned :

GREEK.	SANSKRIT.	LATIN.	ENGLISH.
<i>Καστόριον</i>	<i>kasturi</i>	castor	musk
<i>Κάστανια</i>	fr. <i>kasta</i> <small>testicle and chestnut</small>	castanea	chestnut
<i>Κάρδαμον</i>	<i>ciradamun</i> <small>cira a pod</small>	cardamomum	cardamom
<i>Κάναβις</i>	<i>cana</i>	cannabis	hemp
<i>Μακίη</i>	<i>makura</i>	macis	mace
<i>Μόσχος</i>	<i>muschka</i> <small>testicle</small>	moschus	musk
<i>Πέπερι</i>	<i>pippali</i>	piper	pepper
<i>Σάνταλον</i>	<i>caudana</i> <small>shining</small>	santalum	sandal wood
<i>Σάκχαρον</i>	<i>carkara</i>	saccharum	sugar
<i>Ζιγγιβερις</i>	<i>gringaverā</i> : <small>antler shaped</small>	zingiber	ginger

Some anatomical names, also, are either taken directly from the Sanskrit or, what is more probable, both the Sanskrit and the Greek are derived from the primitive Aryan. Examples :—

SANSKRIT.	GREEK.	LATIN.	ENGLISH.
Ciras	<i>κῆρα</i>	caput	head, kopf <i>Germ.</i>
Hrid	<i>καρδία</i>	cor	heart
Nauree	<i>νεῦρον</i>	nervus	nerve
Medhara	<i>μυελός</i>	medulla	marrow
Osthi	<i>ὀστέον</i>	os	bone
Pitta <small>bile</small>	<i>πιπίτα</i>	pituita	spittle
Vasti	<i>κύστις</i>	vesica	bladder

Some words have found their way into Latin and English from the Sanskrit which are not observed in the Greek. For example *sulphur*, often spelled *sulfur*, is

from the Sanskrit *calvari*. In Greek the word for sulphur is *θειον divine*, because it was supposed to have a purifying power, prophetic of its use as a disinfectant on earth and in Hades. This Greek word appears in the nomenclature of the sulphur compounds, dithionic, *bisulphuric*, trithionic, etc.

The student will observe that these words change form in passing from one language to another, just as many of the lower animal and vegetable organisms undergo morphological changes when the medium which surrounds them is altered. On this account it is very difficult to trace many words to their birthplace, and our knowledge of the influence of Hindoo medicine upon that of the Greeks is very obscure. We may state, however, that the art, much more than the language of medicine, was affected by Eastern influence.

The same may be said of Egyptian medicine in regard to its influence upon the Greek. We know that many Greeks visited Egypt and studied their sciences. Indeed, it was the custom with historians, at one time, to derive all the sciences from Egypt. Yet, with the possible exception of *πύραμις*, pyramid, and the names of a few divinities, there are scarcely any Egyptian words to be found in the Greek language. The Egyptians were famed for their specialties. Herodotus tells us that they had "one physician for the eyes, another for the head, and another for the parts about the belly." They were the first dentists of whom we have any knowledge, for false teeth and gold fillings have been found in the mouths of mummies. They were able to operate for cataract successfully, could remove stone from the bladder, knowing both the supra-pubic and perinæal operation, and yet, with all their skill and all their intercourse with Greece, few, if any, Egyptian words found their way into the

vocabularies of medical writers. The Greeks prided themselves upon the purity of their language, regarding all foreign words as barbarisms, and, accordingly, avoided the importation of words to represent the ideas acquired abroad.

The Greek element is the foundation of the language of medicine, and it is of great importance that the scientific student should know at least the first principles of this tongue. In the works of Homer, who is supposed to have lived some 900 years before Christ, we find frequent references to the healing art. There were no surgeons who devoted themselves especially to that branch of practice. Podalirius and Machaon, the sons of Æsculapius, were called *ιατροί*, or *ἄνδρες ἱατροί*, *healing men*, but they fought in the ranks like the other heroes, and there are many instances in which other leaders extracted darts and applied styptic herbs to the wounds. The word *ιατρός* is derived from *ἰδομαι*, to heal, and is always used by Homer for surgeon, there being no evidence that medicines (*φάρμακα*) were given internally. The word *ιατρός*, or *ιατρία*, healing, curing, is preserved in the technical terms *psychiatry*, mind healing, the cure of mental diseases, and in *pædiatry*, child healing, the treatment of children's diseases, derived from *ψυχή*, the mind, and *παῖς*, a child, respectively. The *pharmaca* were always of a vegetable nature, and were styptic and anodyne in their action. The word *χειρουργός* is of later origin, and means, literally, *hand work*, from *χείρ*, the hand, and *ἔργον*, work; whence we have *χειρουργία*, handiwork, Latin *chirurgia*, a word which, with slight modification, means *surgery* in nearly all modern languages; thus, in Italian and Spanish *cirugia*, German and French *chirurgie*, Old English *chirurgery*; whence the modern form, *surgery*. When men became afflicted with non-

surgical affections, the disease was looked upon as a punishment sent by the gods, just as our Western Indians, and some other people not so barbarous but quite as superstitious, regard bodily disorders at the present day. When the pestilence (*λοιμός*, from which our word loimology is derived) appeared among the Grecian hosts at Troy, it was explained by the anger of Apollo, who was wreaking vengeance upon the offenders:

“He came as comes the night. At first he smote
The mules and the swift dogs, and then on man
He turned his deadly arrows, while all around
Glared evermore the frequent funeral pyres.”

In this case the Greeks did not imitate Asa, of Old Testament fame, who “sought not to the Lord in his affliction, but to the physicians,” and, as a consequence, “slept with his fathers.” But neglecting Podalirius and Machaon, they piously consulted the priest of Apollo, to help them appease the anger of the infuriated god. He ordered a general ablution of the Greek army—very good advice in its way—and a sacrifice of a hundred oxen, and soon the pestilence disappeared. The word *physician* comes indirectly from the Greek through the Latin *physicianus*. The Greek *φυσικός* means pertaining to nature or growth (*φύσις*). From this our words *physic*, *physics*, and many others are derived. The *φυσικοί*, *physici*, were not physicians as the word is understood to-day, but natural scientists; and as these scientists understood medicine, the science most appreciated by the people, the word finally came to be applied to medical practitioners alone. During the early centuries of our era the *physici* were sorcerers, and *physic*, τὰ φυσικά, meant drugs of magical origin.

The Homeric surgeons had no knowledge of anatomy except such as was acquired from the treatment of

wounds and the evisceration of animals, as was practiced in making sacrifices. All the external parts of the body and the principal internal organs were known and named, the words employed by Homer being found in scientific medical works at the present day.*

But the true science of medicine, as we now understand it, came into existence with Hippocrates, who lived 460-377 B. C. With the exception of an accurate knowledge of osteology, Hippocrates was not much more intimately acquainted with anatomy than were the Homeric heroes. He mentions, with considerable satisfaction, the existence of a human skeleton in one of the temples of Æsculapius, and it was from this source that his accurate knowledge of bones was derived. To him, muscles were but flesh, and veins (*φλέβεις*) were only *gushers* (from *φλέω*, to gush, *cf.* the Latin *fluo* to weep). The word *artery* (*ἀρτηρία*) is restricted to the windpipe, while *νεῦρα* (*neurā*), in the Hippocratic age, represented both nerves and tendons. The brain was a gland secreting mucus; the heart, a muscle containing four cavities, two for the reception of air, and two fountains of life; the lungs were for the reception of air to cool the internal fires.

But the Hippocratic descriptions of diseases and symptoms are quite accurate. He was a true artist in portraying the signs and symptoms of disease. The

* The following medical words are found in the Iliad and Odyssey, with meanings identical with those of the present day: Carpus, chole, cleido, coma, corona, crocus, cranium, cyanic, cystis, encephalon, enterā, hidrosis, ischium, omphalus, ophthalmos, omo-, picric, phrenic, phyton, phthisis, splanchna, sternum, stethos, and syringe.

Besides these, there are many words which are similar in form in Homeric Greek and in modern medical works, but have different meanings. The following may be taken as examples: Æther, amnion, amœba, astragalus, clonus, corymb, didymi, ephialtes, gastro-, iris, ichor, melissa, mesodme, meconium, molybdenum, narcosis, nymphæ, pleura, phial, phlebs, phalanges, sponge, trachea and troche.

Hippocratic countenance, *facies Hippocratica*,* has become a classical phrase. The names given by him to diseases, in many instances, remain in the nosologies of the present day, and his method of forming words to represent pathological processes has served as a model for all succeeding generations.

The next great name which has had a lasting influence upon the language of medicine is that of Aristotle, who was born 384 B. C. He was the inventor of comparative anatomy. His classification of animals, based upon anatomical peculiarities, was so excellent that Cuvier, more than 2,000 years afterward, found no occasion to seek a better. Aristotle gives the first reliable description of the brain, and the word *aorta* (*αὐρτή*, from *ἀείρω*, to rise up) was probably invented by him. He was familiar with the whole alimentary canal and the surrounding viscera. He divides the intestines into parts quite similar to those described in modern works, the terms now used being, in many cases, mere translations of the Greek words used by Aristotle.

The foundation of the Alexandrian Library by the Greeks of Egypt, 380 B. C. and the legalization of human dissection gave a new impetus to the study of anatomy and physiology, and a few years later we observe the names of Erasistratus and Herophilus, the first Greek anatomists. Erasistratus described the valves of the heart, the cranial nerves, and perhaps distinguished motor from sensory nerves. Herophilus whose name is

* A sharp nose, hollow eyes, collapsed temples; the ears cold, contracted, and their lobes turned out; the skin about the forehead being rough, distended and parched; the color of the whole face being green, black, livid or lead-colored.—*Hippocrates' Prognostics*.

Shakespeare, in describing the death of Falstaff, seems to have been familiar with this description of the *facies Hippocratica*: "For after I saw him fumble with the sheets, and play with flowers, and smile upon his fingers' ends, I knew there was but one way; for his nose was as sharp as a pin, and he babbled of green fields. So he bade me lay more clothes on his feet: I put my hands into the bed and felt them, and they were as cold as any stone."—*Henry V.*, II., 3.

commemorated in *torcular Herophili*, the wine press of Herophilus, was the first vivisectionist, and was even accused of vivisecting condemned criminals. He gave the names to the *choroid plexus* and *calamus scriptorius*, *χάλαμος γραφικὸς writing pen*. These two physicians were rivals and founded rival schools. Herophilus was a close follower of Hippocrates. Erasistratus was more independent and explained diseases by mechanical theories, but employed a large number of drugs. His school was followed by the empirics, (Greek *ἐμπειρικός*, skilled experienced) who believed that all knowledge of medicine was obtained from clinical experience. A rival school, the *methodists* (Greek *μεθωδίσται* followers of a definite track *ὁδός*) soon gained the ascendancy and the empirics were looked upon as charlatans, so that the word, though honorable in its origin, is still applied to quacks.

We meet with no more epoch marking names until the time of Galen (130-209 A. D.) a physician of the Alexandrian School who stands next to Hippocrates in the ancient medical world. He was an ardent admirer of the older medical writers and an enthusiastic investigator in unexplored regions of medical science. The veins of the brain substance, *venae Galeni*, commemorate his name. Previous to his time, a speculative tendency had crept into all the sciences. Physicians were more interested in elaborating theories of disease, than in applying inductive methods of thought to medical matters. Galen saw that scientific medicine must be based upon a thorough knowledge of anatomy and physiology, that the normal must be known before its abnormal could be explained and corrected. He devoted much time to these elementary branches and made some important discoveries. He demonstrated the existence

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of the periosteum and described the nutrition of bone; he showed that symphyses were in early life articulations. He discovered that muscles were the organs of locomotion and not mere inert masses for covering bones and viscera; that arteries contained blood and not air as was formerly supposed; and finally he showed the distinction between nerves and tendons.

The rise of Christianity now arrested the development of medical science which came to be looked upon as a black art. Anthropotomy was prohibited and the general belief in dæmoniical possession, as taught in the New Testament, encouraged the existence of a host of impostors who claimed to cure disease by invoking divine aid. The Cross that brought light to religion, cast a gloom over philosophy and the sciences which soon lulled them to sleep in monasteries or sent them into exile among the Arabians. Thus we find few Greek writers on medicine after Galen who added anything to the science.

Oribasius, court physician to the Pagan Emperor Julian the Apostate, compiled a work of great historical value but evincing little original research, unless we may ascribe to him the discovery of the salivary glands. Soranus wrote the first work on gynaecology and describes the speculum rediscovered in modern times. Alexander of Tralles advanced some new views on pathology, while Paul of Aegina wrote on surgery and obstetrics. We have thus a series of Greek writers on medicine extending from 450 B. C. to 700 A. D. During all this time no discovery of any moment was made by a Latin writer, and even after the decline and fall of Greek learning, the true science of medicine did not pass to the Romans but to the Arabs.

To sum up the influence of Greek science upon the language of medicine we may state that in anatomy the names of the majority of organs requiring careful research for their discovery are taken from the Greek. Thus the names of the external bones of the cranium are Latin, e. g. *frontal*, *parietal*, *occipital* and *temporal*, while those requiring dissection for their discovery are Greek, e. g. *ethmoid* and *sphenoid*. From the Greek, also, come the names of nearly all diseases and symptoms. So readily are compounds formed in Greek which express exactly the idea named that scientific men turn instinctively to that language to form the symbols of their thoughts. For this reason we find almost the entire nomenclature of bacteriology to be of Greek origin although the words have nearly all been coined within the past decade. Thus we have:—*Schizomyces* from *σχίζω* to split and *μύκης* fungus; *Micrococcus*, from *μικρός* small and *κόκκος* a seed or berry; *Saprophyte*, from *σαπρός* rotten and *φυτόν* plant, all being words which designate accurately the thing described. The names of many surgical instruments, such as *lithotrite*, stone pulverizer, from *λίθος* a stone and *τρίβω* to pulverize; *cranioclast* a skull crusher, from *κράνιον* cranium and *κλάζω* to crush, and of the great majority of operations, e. g. *thoracotomy* boring the thorax from *θώραξ* the 'chest' and *κεντάω* to bore, are also mere Greek words in an English dress.

The Latin Element. The student will naturally enquire why the language of medicine is, in structure, Latin, when it is so largely derived from the Greek. Circumstances having no direct bearing upon the development of the science have accomplished this result. The first and only work on pure Roman medicine is from the pen of Cato the Censor, who lived some two hundred years before Christ. It is included in a treatise on rural

affairs, "*De Re Rustica*," and contains about as much scientific medicine as a similar work composed by "Sitting Bull," or "Tippoo Tib" might be expected to display. It abounds in superstitious nonsense and slanders of the regular physicians who were coming to Rome from Greece about that time. Nevertheless, Cato's work is significant from a literary point of view. The words employed by him to express many morbid conditions and parts of the body were used in the subsequent translation of Greek works into Latin.

After the fall of Grecian independence, 146 B. C., many Greek physicians found their way to Rome. Some were slaves, others were freemen who came to try their fortunes. In fact, all the arts and sciences, good and bad, so highly developed by the Greeks, gained a foothold in Rome, and this sturdy race of warriors was made effeminate by their captors. As Horace relates, in his *Ars Poetica*:

*"Græcia capta ferum victorem cepit, et artes
Intulit agresti Latio."*

There was some opposition on the part of the Roman populace to the new art of medicine, which, to a certain extent, antagonized their religious notions. Arca-gathus, the first Greek physician, was dubbed *carnifex*, meat-maker or butcher, as some surgeons are called by unappreciative people at the present day, and later Cato accuses the Greek doctors of having formed a conspiracy to poison the Roman nation. But the art of medicine, thus established on Latin soil, soon took root, and, for many centuries, maintained a sickly existence in a Romanized form.

The Roman mind possessed but little originality except in politics and war. Even the most famous of the Latin writers were often little more than good trans-

lators. Virgil, in his Eclogues, makes a fair translation of the Idyls of Theocritus, and, in the Æneid, the thoughts, the form, and the poetical figures are, as a rule, taken bodily from Homer. So in medicine the Romans merely copied from the Greeks. When a convenient Latin word was wanting, in making their translations, they never stopped to coin one of their own, but took the Greek word and dressed it in Roman type and terminations. For example, the first section of the small intestine was called in Greek, δωδεκαδάκτυλον, twelve fingers, meaning that this organ was, in length, equal to the width of twelve fingers. In Latin this was translated *duodenum*, by twelve. But *ileum*, the name of the third portion of the small intestine, is identical with that used by the Greeks, viz:—εἰλεόν or τὸ ἔντερον εἰλεόν, *the twisted gut*. Sometimes the Greek word found its way into Latin, even when there was a good Latin word in existence. Thus, for liver, there are both the old Latin word, *jecur*, and the Greek, *hepar*, ἥπαρ; for spleen there is the Latin *lien* and the Greek *splenium*, σπλήν; and for amber there is the Latin *succinum*, from *succus*, juice, and the Greek *electrum*, ἤλεκτρον. The names of diseases and of obscure organs were, almost without exception, borrowed and not translated.

The two most distinguished Latin writers on medicine were Celsus, who flourished from B. C. 53 to 7 A. D., and Pliny the Younger, 23-105 A. D. Perhaps neither of these men was a physician. The second speaks in a very deprecatory manner of the art of medicine, but the first displays much practical knowledge. But their works are encyclopædias of the medical knowledge of their time, and Celsus is regarded as the perfection of medical Latinity, even at the present day. Cælius Aurelianus wrote on acute and chronic diseases, "*De*

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Ccleris Passionibus" and "*De Tardis Passionibus*." He is noted for the purity of his Latin, and his attempt to avoid, as far as possible, the introduction of pure Greek words. The monastic physicians, a few years later, read his work to the exclusion of all others, and, in this manner, his influence upon the subsequent medical Latin was very great.

Celsus, Pliny and Aurelian are the only important Latin medical authors of the classical period. They were much read by the Latin writers who lived after the revival of learning, and thus have had a lasting influence upon our language, if not upon our methods of practice.

When the Roman Empire fell, it dropped into the lap of the Church, which straightway proceeded to despoil it of its system of government, thus becoming, for many centuries, the greatest of temporal powers. The old pagan literature and philosophy were locked up in cloisters or destroyed by papal command. The arts and sciences, with the exception of war, theology and law, were, to a great extent, suppressed. The scientific medical works composed by heathen writers, and filled with allusions to strange gods, were among the first to disappear, and physicians who showed any familiarity with them were regarded as being in league with the evil one.

But the monks began to cultivate, in a rude way, the arts and sciences. Some whiled away their lonely hours in the perusal of medical works, and often on their frequent begging expeditions, in a very unscientific manner, they practiced the healing art. Surgery fell into the hands of barbers, and not until the tenth century, when the monks of Salerno began to teach medicine, was there a medical school in Europe outside of Moorish Spain. In this school at Salerno surgery was again taught, and there is some evidence that animals were dissected, for

about this time a work was written on the anatomy of the hog, "*Anatomia Porci*." In the twelfth century the Crusades brought the nations of Europe into contact with Saracenic culture, and medical works were translated from Arabic into mediæval Latin. Medicine then became a purely Arabic science, and so continued until, in the latter part of the fifteenth century, the ancient medical authors were again studied in the original Greek. About this time practical human anatomy was revived. Achillini, Berenger, Fallopius, Arantius, Eustachius, and Varolius of Italy, with Sylvius and Vesalius of France, form a galaxy of anatomical investigators who have given their names to many of their discoveries. Their works were all published in the sixteenth century, and in Latin, the language of the Church and State in all Western Europe at this time. Their style was far purer than that of their monkish predecessors, who had corrupted the language of medicine by the introduction of numerous Arabic and Moorish-Greek terms, such as *meri* for œsophagus, *sumac* for the umbilical region, *myrac* for the abdomen, *siphac* for the peritoneum, *zirbus* for omentum, and *nucha* for cervix. This word *nucha* is almost the only Arabic-Latin word still remaining in anatomical nomenclature, as seen in *ligamentum nuchæ*, the ligament of the nape of the neck.

In the latter part of the sixteenth century, medical men in England began to write in their own language, although the great majority of the text-books in all the sciences were Latin, and professors in the schools lectured in that language. The first English work on anatomy was compiled by John Banister, in 1578, and was entitled, "The Historie of Man, from the most Approved Anathomistes in this Present Age." In other countries of Europe, Latin was still the only language of the physi-

cians, and so continued far into the eighteenth century. Even at the present day, in Italy, Germany, and Spain, monographs are occasionally composed in Latin, although as a literary language it is fast disappearing. In Germany there is now a tendency to abolish Latin and Greek terms and substitute pure German words. Thus we find them using *krebs* for cancer, *kehlkopf* for larynx, *magenentzündung* for gastritis, *frauenheilkunde* for gynæcology, etc. In the German language this change is possible, though, perhaps, not advisable. In English, however, it would be very difficult to form words to take the place of our scientific technical terms derived from the Classic tongues. "Windpipehead," "womanhealing-art," and "straightgutinflammation," would certainly be no improvement upon the learned words now employed. Moreover, our colloquial vocabulary is in a constant state of change, as will be shown in a future chapter, whereas, scientific truths, once established, should have names to designate them in all times and in all countries. Where there are several common names for the same thing, much confusion would, in a short time, be introduced into the language of medicine, were the Classical terms to be dropped. What one of the hundred vulgar names for the male organ of generation, which Rabelais has taken the trouble to record in French, could we substitute for the Latin *penis*?

Before leaving the discussion of the Latin element in medicine, we must call attention to the fact that many of our technical words belong to Low Latin, and would not be found in the works of Cicero or Celsus. For example, *scorbutus*, scurvy, is derived from the Teutonic *schaar*, torn, and *buuk*, belly, and *embrocatio* from Greek ἐμβρόζειν, to soak in, both being Mediæval Latin. Sometimes we have both the Classical and Mediæval

Latin word for the same thing, as the following illustrations will show :

CLASSICAL LATIN.	MEDIAEVAL LATIN.	ENGLISH.
pila	bullā	ball
anthemis	chamomilla	chamomile
os frontis	glabella	frontal bone
os	bucca	mouth
equus	caballus	horse

Sometimes we have adopted in medicine the later meaning of words instead of the signification found in the classics. Thus *curatio*, from *curo*, to care for, has come to mean cure, just as from the Greek *θεραπεύων*, who was originally a slave or menial who waited upon a master, is derived the modern *therapeutist* who is quite a different person. The ancient word for healing was *medicatio* from *medeor* to heal, and a *medicus* was a healer, at first of wounds, afterward of all diseases, just as was the case with the Greek *ιατρος*. Our word *heal* has a similar history. It is derived from a root *hel* meaning cover, and from it *heal*, *heel* and *hell* are all formed. To *heal* meant originally, to cover a wound with skin; the *heel* is covered by the leg, and *hell* is a covered place somewhere below.

Latin words are still being formed, and it is anything but a dead language. Antimonium, potassium, and tannicum are words unknown to the Ancients. The recently formed Greek words all wear Latin dresses; we do not write *γονοκόκκος* but *gonococcus*, nor *μυρριγγίτις* but *myringitis*. Many of the medical words imported from the modern languages are, when it is possible, promptly turned into Latin. Although we do not inflect *tolu* as a Latin word, we form from it the adjective *tolutanus*. Spanish, Portuguese and Italian words, like *cas-*

carilla, *ipccacuanha*, and *scarlatina*, are usually treated as if they were Latin, forming a genitive in *æ*.

The nomenclature of a recently-developed branch of our science, medical jurisprudence, is almost exclusively Latin. The rudiments of forensic medicine are found in that mine of legal knowledge, the "Institutes of Justinian," where such subjects as prolonged gestation, sterility, impotence and hermaphroditism are discussed. The technical terms employed by the Latin legal writers have passed through Norman French, and into the English codes, from which our laws are so largely derived.

The Arabic Element. While philosophy and the sciences in Christian countries, during the middle ages, were in a state of slumbering decay, the Arabs, imbued with the wisdom of Indians, Egyptians and Greeks, kept the sacred flame of knowledge burning. Their sages made translations of the *Ayur Veda*, the commentaries of Charaka and Susruta, and cultivated the occult sciences of that mysterious race, the Egyptians. Much of their medical knowledge was derived from the works of Hippocrates and Galen, and, as the Arabic language does not possess that capacity for word-building which belongs to the Greek, many Greek words, slightly modified, were adopted into their vocabularies. The Arabs did not permit the dissection of animals or human bodies. In their manuscripts no drawings of any living thing were permitted, and, as a consequence, there could be no discoveries in anatomy, physiology or surgery. But in the departments of chemistry, materia medica, pharmacy and nosography, great advances were made, which have exerted an influence on medical science felt even at the present day.

Chemistry, or rather alchemy, is distinctively a science of Arabic origin. Many have supposed that the Saracens obtained it in a rudimentary state from Egypt, and, to support this view, claim that the word is derived from *Chemi*, the Egyptian word for Ham, who was, according to the Old Testament, the first settler in Africa. This word *Chemi* was converted by the Greeks into *Ammon*, as seen in Ζεῖς Ἀμμων, although this word may also be derived from ἄμμος, sand, Jupiter Ammon thus meaning "Jupiter of the Sands." The majority of philologists, however, claim that *alchemy* is derived from the Arabic *al*, the, and the Greek *χημία*, pouring or mixing, from χέω, to pour, thus shutting off the etymological argument in favor of the Egyptian origin of this science, making the word mean "the mixing science," instead of the Egyptian or Hamitic science.

The alchemists had two objects constantly in view, first, to discover "the philosopher's stone," which would convert the baser metals into gold, and, second, to find the source of life, or compound a mixture which would enable mankind to retain perpetual youth. In order to accomplish this, they sought for a universal solvent, *alkahest*, which would reduce substances to the four primitive elements of which they believed all things composed. This word *alkahest* was sometimes translated *quintessentia*, fifth essence, by the Latin alchemists, and the word still survives in this form, with altered meaning, in nearly all European languages. Many of the works of the alchemists were composed in cipher, in order that the uninitiated might not learn of their discoveries, and it is now quite impossible to translate them. This custom led an old Latin writer to say: "Alchemy is a great science, for few can understand the language thereof." Wild as were their schemes, and obscure as

were their methods, great discoveries were, nevertheless, made. They invented the method of preparing the mineral acids, calling nitro-hydrochloric acid the "royal water," *aqua regia*, as translated in Latin, because it would dissolve gold, the royal metal. Brandy also, was, first prepared by them, and, for a long time, was regarded as the elixir of life. *Aqua vitæ*, it was called by the Latin writers, a name which it still retains in France and Italy as *eau de vie* and *acqua vita*. It also had this name among the Spaniards at one time, but is now called *aguardiente*, burning water, being nearly a literal translation of the German *brandy*, *i. e.*, burning.

The classic period of Arabian medicine began with Rhazes of Persia, 920 A. D., who was the first to describe small-pox and measles in an intelligent manner. In fact, it is to him that we owe our first knowledge of the exanthematous diseases.

Messua, who lived in the eleventh century, wrote an extensive treatise on materia medica, which was translated into Latin in the fifteenth century, passing through twenty-six editions, and finally becoming the basis for the formation of the first London Pharmacopœia, in the reign of James I.

Avicenna, "the prince of physicians," was born 980 A. D., and wrote his "*Canon of Medicine*," in the first part of the eleventh century. A hundred years later his work was translated into Latin, and continued to be used as a standard text-book until about 1650. He was the first to mention the use of the obstetric forceps.

Albucasis wrote on surgery and invented the pro-bang. Of the Moors of Spain, Avenzoar and Maimonides the Jew, were the principal authors, and their works were read throughout the civilized world.

The Arabian influence was much greater upon the art than upon the language of medicine. Arabic, belonging to a family of languages quite distinct from the Indo-European, could not easily be Latinized. Arabic words were, therefore, rarely adopted to designate ideas or discoveries, whatever may have been the defects in the Latin vocabulary. The great majority of the words that were transferred before the revival of learning were dropped by the medical writers of the sixteenth century. We give below a list of the principal Arabic words still found in medical literature:

WORD.	ARABIC.	SIGNIFICATION.
Alkali	<i>al the, qali</i> ash	{ the ashes of glasswort, abounding in soda.
Alcohol	<i>al the, kahal</i> eye-wash	{ a fine powder used to paint eyebrows.
Amber	anbar	a rich perfume
Barberry	barbaris	barberry tree
Benzoin	benzoah	a balsam
Borax	buraq	borax
Caraway	carvi	caraway
Carmine	qirmiz	crimson
Cubebs	kubabah	bitter plant
Elixir	<i>el the, iksir</i> quintessence	{ the quintessence, phi- losopher's stone.
Myrrh	murr	bitter
Nitre, natron	nitrun	{ an alkaline earth, from Nitria
Naphtha	naft	bitumen
Sherbet	sharbat	a drink
Sumbul	sumboul	a spike
Syrup	<i>sharab</i> drink	sweet wine
Senna	sana	senna
Sumach	summaq	a shrub, sumach

Saffron	za'faran	yellow
Taraxacum	<i>tarasacon</i>	succory dandelion
Tartar	<i>durdig</i> , dregs	{ because it is obtained from dregs of wine.
Tamarind	tamrhind, <i>tamr</i> , palm, and <i>hind</i> ,	Indian
Zero	sifr through Italian	<i>sefiro</i>

As the mediæval translators of the Arabic medical authors were ignorant of philological science, several words derived from non-Arabic sources were introduced into Latin. In these cases the Arabic definite article *al*, or *al*, was, through a mistaken notion, prefixed to words, thus forming hybrids. We have *alcmibic*, from *al* *âµ³ê*, the cup or vessel for distilling. In some of the older English works we find the word *alcmbroth* for ammoniated hydrochlorate of mercury. This word is derived from the Arabic *al*, the, and the Chaldaic *embroth*, "the key to knowledge," because the alchemists expected to determine the final composition of matter from this salt. This method of transferring the definite article as a prefix is occasionally observed in words derived from other languages. Thus, the word *alligator* is merely a corruption of *el ligarto*, Spanish for *the lizard*. The English sailors who heard the word knew nothing of Spanish grammar and would naturally speak of *alligartas*, a word found in the language of that erudite scholar, Ben Johnson.

Elements Derived from Other Ancient Languages.

The study of the Old Testament and the commercial relations with the East have introduced a few Hebrew and Persian words into the language of medicine.

From the Hebrew we have:—

Cassia, Heb. *qatzah*, to cut, because the bark was cut off.

Cinnamon, Heb. *qinamon*, from *qinch*, a reed.

Manna, Heb. *man hu*, What is this?

Bedlam, a corruption of Bethlehem, where Mary was in child-bed. Afterward applied to the Asylum of St. Mary of Bethlehem.

From the Persian we have:—

Azedarach, from *aza*, a gum, a plant with anthelmintic properties.

Asafoetida, from *aza*, name of gum, and Latin *fœtida*, stinking.

Bezoar, Persian *padzahar*, from *pad*, against, and *sahar*, poison; whence,—

Bezoardics, remedies used for the prevention of disease.

Cinnabar, from Persian *zinjarf*, red lead.

Jasminum, from Persian *yasmin*, jasmine.

Jujube, corrupted from Pers. *sizafun*, the jujube tree.

Julep, from Pers. *gulab*, rose-water, a sweet drink.

Laudanum, Greek *λιδανον*, from Persian *ladan*, the gum of the herb, *lada*.

Limon, from Pers. *limun*, lemon or lime.

Orange, Latin *aurantium*, from Pers. *naranj*.

Nard and spikenard, Pers. *nard*, an odor.

Elements Derived from the Modern Languages. During the present century, and, especially, since the Napoleonic wars, a large number of foreign words, especially from the French, have found their way into the language of medicine as used by English-speaking authors. Increased facilities for travel, the telegraph, and the host of medical journals, afford remarkable advantages for the interchange of scientific thought. So rapidly are new discoveries heralded throughout the civilized world that we do not stop to translate new terms but adopt, without change, the word coined by the inventor or discoverer.

Thus words from the French, German, Spanish, and even from the far distant countries of the Orient have found a place in our medical literature. When Piorry wrote his work on percussion, and Laennec published his discoveries in auscultation, English writers did not, at first, stop to frame new words for the terms used to designate these discoveries and, as a consequence, we find the nomenclature of physical diagnosis replete with French words. In neurology, obstetrics, and venereal diseases, branches of medicine carefully studied in France, we also have a number of French words. From Germany and the Scandinavian countries we derive the names of some minerals and of a few diseases. From the Spanish and Portuguese we have obtained the names of many plants and of a few pathological conditions. From the Italian, also, a few words are derived, although this language is so much like the Latin that we generally prefer the Latin equivalents.

Commerce has brought words into our language, as well as merchandise into our markets. From Turkey we have coffee, Turkish *qahveh*, Latinized into *caffea*. From Hindoostan we have *shampoo*, Hindoostani *champna* to rub or press. From the Malay Peninsula we have *gutta-percha*, Malay *gatah*, gum, and *percha*, the tree from which it is obtained; *camphor*, Malay *kapur barus*, barous chalk, Latinized into *camphora*; *rum*, Malay *rum booze*, good drink, and *mango*, Malay *mangga*. From China we have *tea*, Chinese *te*, Latinized into *thca*. From Annam we have *gamboge*, derived from the name of the Province Cambodia, where the plant grows. From a common African personal name we have *Quassia*. *Quashi* was a West Indian slave, and a "medicine man," who first pointed out the uses of this plant. In slavery days the name *Quashi* was frequently met with among

our Southern negroes. We have the plantation song :

“ *Quashi* scrapes the fiddle string,
And *Venus* plays the flute.”

From the Abyssinian we have *koussou* or *kusso* and *kamala*. From the Tartar *koumiss* or *kumyss*. From the Fijian, *kava-kava*, a word meaning intoxication.

From the American Indian languages through the Portuguese, we have *ipccacuanha*, from *ipccaaguen*, “the roadside sick-making plant,” *jequirity* or *jeriquity*, and *jaborandi*. From the Indian languages through the Spanish, we have *boldo*, *coto*, *guaiac*, *jalap* from the Province of Xalapa in Mexico, *kino*, *quebracho*, *quinine* from *kina*, bark, *tobacco* from the name of the island of Tobago, *tolu*, the name of a place, and *tonga*, or *tonka*.

From this brief history of the sources of our technical terms, we learn that the language of our science, like the science itself, is truly cosmopolitan, all nations and all ages having contributed to our knowledge and our vocabulary.

CHAPTER III.

THE ORIGIN OF WORDS.

WORDS are the symbols of ideas, not mere arbitrary signs such as those used by the mathematicians, but mental pictures addressed to the imagination and recalling the exact relations of the thought symbolized. To be sure these pictures are, in many cases, faded, or as Goethe expresses it, like the images on coins they are worn away by long continued use or obscured by the rust of ages.

Mankind instinctively shrink from the use of words of which they have no accurate knowledge. When foreign words, replete with meaning, are forced upon the common people, they often reform or deform them into words with which they are familiar. The Latin word *carbunculus* means "a little live coal," and was applied to a bright sparkling gem. When these brilliants were introduced into Germany, the Teutonic genius, though obliged to accept the Latin name, converted it into *karfunkel*, from *funkeln*, to sparkle. Many other words have been similarly modified. The German *hauscnblase*, fish or sturgeon bladder, has been converted into *isinglass*, the Arabic *carui* into *caraway*, and *benzoin* into *benjamin*. The French *dent de lion*, lion's tooth, has become *dandelion*; *ros marinus*, sea foam, has become *rosemary*; *salpetra*, rock salt, has become *saltpetre*; *verd de gris*, Fr., green of gray, *verdigrase*; *wermuth*, Germ., mind preserver, *wormwood*; *cingulum*, the girdle, a Latin name for *herpes zoster*, has been converted into *shingles*, and *staphisagria*, from *σταφίς*, a vine, and *ἄγρια*, wild, has become *stavesacre*. The Spanish *dengue*, a kind of fever

common in the Southern United States and Mexico, was called by the English, *danggy* fever, and then "*dandy fever*," a name now found in our medical works. We are also reminded, in this connection, of the physician who told an Irish woman that her husband had pneumonia. "You're right he has *no money*," was her reply.

Words that do not speak to the imagination are things without life. The attempt has been made to form such words in chemical nomenclature, the names of the organic series of compounds being distinguished by the vowel in the final syllable, thus, sextane, sextene, sextine, sextone, sextune, and the terminations *ate* and *ite*, have no inherent meaning. The word *sepal* used in botany, it is said, has no etymological signification, having been devised by Neckar, but in this case his mind was influenced by the word *petal*, and, perhaps, by the Latin *sepio*, to divide. Bulwer has modeled his language of the "Vrilya," as given in "The Coming Race," largely after the Greek, and Volupuk, "the universal language," contains the majority of the Indo-European roots.

It is quite probable that the earliest words in all primitive languages were formed by *onomatopœia*, that is, the sound expressing the thing by some peculiar adaptation. When we wish a person to stand we instinctively say *st*. This sound is found as the root of words expressing the idea of immobility in all the Indo-European languages; Aryan *sta*, Greek *ἵστημι*, Latin *stare*, German *standen*, etc. The first cry of the infant on its entrance into this world is *ma-ma*, and, as its lamentations cease when it is applied to its mother's bosom, our imaginative ancestors employed the word *mamma* as the name of the female breast; thus we have the Greek *μάμμα*, and the Latin *mamma*, etc. This same root, *ma*, is found in the word for mother in all the Indo-European

languages; Sansk. *matri*, Greek *μήτηρ*, Latin *mater*, French *mere*, German *mutter*, Russian *mate*, Anglo-Saxon, *moder*, Icelandic *modher*, etc. Animals were named from their peculiar inarticulate sounds. The Greek word for frog is *βάτραχος*, from "*batr-r-r-ach*," the sound which he utters. From the sound made by the *cow* we get the Sansk. *gao*, Germ. *kuh*, Greek *βόος*, and Latin *bos*. Names of animals that cannot thus be explained are probably of late origin and are derived from other characteristics. But even when there are such words we find among the people, and especially with children, a tendency to frame onomatopœic synonymes. The regular Latin word for cat was *felis*, but *cattus*, the first syllable of which is the sound made by the cat when spitting, is found in colloquial Latin. So we have *chat* (pronounced *sha*) in French, *katze* in German, all being preferred to words derived from other characteristics.

When people are in strange lands they often go back to the primitive method of word-forming in order to make themselves understood. A story is told of an Englishman who, on dining in China, wished to know the composition of a certain dish. Pointing to it he said, "Quack? quack?" The answer received was, "Bow-wow!"

The sounds made by animals were soon applied to other things. The winds and torrents roared, as well as the lion. The *Palatine Hill* takes us back to the days when the shepherds watched their bleating (*balatans*) flocks upon its grassy slopes. The palate, Latin *palatum*, is the *balatans* organ. The Latin word for tongue, *lingua*, is derived from the licking sound of the tongue. Compare English *lick*, Greek *λείχω*, German *lechen*, Italian *leccare*.

The language of the passions is largely onomatopœic. The Greek *γέλασμα*, Latin *cacchinatio*, German

lachen, and English *laugh*, will serve to illustrate this point. In a similar manner words were made to express the sounds of bodies colliding or passing through the air, of ringing, breaking, cracking, splashing, and many others.

These sounds, we believe, were the basis of speech, and were learned by the primæval man as the parrot imitates the sounds he hears. But man has a higher faculty than speech, namely, that of reason, and through this he was enabled to remember, compare and express relations. If he had been created without a larynx, he would undoubtedly have found other means than speech, of communicating his thoughts. As Nodier has aptly said, "Man speaks because he thinks."

From the radical words thus formed by onomatopœia, a host of new expressions may be developed by the addition of prefixes and postfixes. It is said that in the German language there are only about 250 roots, and many of these can be traced to earlier forms; yet, from this comparatively small number of original words, a vocabulary 80,000 strong has been elaborated. To illustrate the formation of words from onomatopœic roots, we may take the radical *ach*, which originally denoted pain, like our *ouch!* In Greek we have *ἀχί*, a point, *ἄκωνθα*, a thorn, *ἄγθος*, a burden, etc.; Latin *acuo*, to sharpen, *acus*, a needle, *aculeus*, a spur, *acer*, sharp, etc.; and the same root may be traced throughout the Indo-European family of languages, always having this primary signification of pain, but modified by inflections into a thousand different shades of thought. Indeed, these onomatopœic roots seem to be the true protoplasm of speech, and from a single one, a thousand words often so unlike the original that their relation cannot be detected, are developed. Take, for example, the sound of the initial *m* of *mum*,

denoting silence. In Greek alone there are nearly a hundred words containing this radical. There is *μῶω*, to close, as seen in *myopia*, in which a partial closing of eyelids is a symptom, *mydriasis*, from *μυδρίσις*, a hot iron which caused the eyes to close and the pupils to dilate, *muscles*, which enclose the viscera, *mucus* (*μῦξος*), phlegm, which is enclosed in the body, *μῦσος*, hatred which one conceals in his mind, *μύζης*, a mushroom which grows in dim, concealed places, and the *mysteries* of a society are the things that are kept "mum." *Mutus*, dumb, contains the same root, as do, also, the English words muzzle, mummary and mumps.

Words having meanings very different from the original root are often formed. Thus, from the root *καλ*, call, we have the Greek *κἀῶω*, to hear. The word "dear" has two meanings, "prized," because you have it, and "expensive," because you want it. The Latin word *sacrum* and Greek *ἄγρον* have the meanings of *sacred* to the gods and *accursed* by the gods. *Os sacrum* means "the accursed bone," because it was not offered up in sacrifices, and not "the sacred bone," as usually translated.

Words are also formed by changing their meaning, *neologisms* of meaning, they are sometimes called. To illustrate this, we may look at the etymology of the words for man, mankind, and woman. *Man* is derived from an Aryan root, *ma*, meaning to think or measure, as seen in the Sanskrit *manu*, and *Brahmana*, holy man. *Kind* is from the Saxon *ge-cynd*, nature. *Mankind* is *man nature*. Woman was, in Anglo-Saxon, *wifman*, wifeman, becoming in Old English, *wimman*, plural *wimmen*, as pronounced to-day. The origin of *wife* is not known, but probably referred to her reproductive capacity, as in the sound of the modern wom(b)man. In Greek the word for man, the male, is

ἀνήρ, root (*and*), from an Aryan word meaning testicle. Woman γύνη (root *gynæc*), from γεννάω, to bring forth, produce. Mankind is ἄνθρωπος, ἀνήρ, man, and ὤψ, looking. The etymology ἄνω, upward, and τρέπω, to turn, indicating that the primitive man worshipped the sun and stars, is probably a pure fancy. In Latin we have *vir* for man, referring to his strength, *vis*, allied to Greek ζ, (root *in*) fibre, strength; for woman we have *femina*, from an old word, *feo*, to produce, as seen in *fœtus*, *fertile*, *fecund*, and some other terms; for mankind we have *homo*, allied to *humus*, the soil, because man was formed according to the ancient myth from the earth.

We thus see that language is, as Richter truly says, a dictionary of faded metaphors, using the word metaphor in a generic sense and not subdividing it into the specific rhetorical figures, *synecdoche*, *metonymy*, *simile*, etc. In the recently-developed sciences, such as organic chemistry, figurative language is almost entirely wanting, but in medicine, an ancient art, with a history as old as the human race and bearing in its vocabulary the records of a thousand triumphs, struggles and mistakes, there is an abundance of the poetical method of word formation.

In regard to the metaphorical formation of words, we have:—

1. *The name of a part or symptom applied to the whole, and conversely.* In *scrofula*, for example, the neck of a child often swells until it resembles that of a pig, hence the name *scrofula* meaning, literally, a little pig. In many cases of idiocy the motor apparatus is affected and the patient is obliged to walk with a staff or cane; hence we have *imbecile*, from *in bacillum*, upon a staff or cane. We now use the word *femur* which means the thigh for *os femoris*, the thigh bone. In the Hindoo

word *beriberi*, we have the symptom for the disease. The limbs in this affection become rigid, and the patient feels as though he were shackled, hence the name from *beri*, a fetter.

2. *The name of a quality or characteristic of an object for the name of the whole.* This method of forming new words is exceedingly common. *Aconite* is so named because it grows upon sharp projecting rocks, ἐν ἀκόνουσ. *Hydrargyrum* is a watery or fluid silver, ὕδωρ water, ἄργυρον silver. *Paraffin* was so called because it had little affinity, *parum affinis*, for any other chemical substance. *Apocynum* was named from the fact that dogs keep away from it, ἀπό away, κύνων dog. *Calomel* is a beautiful remedy for black bile, καλός beautiful and μέλας black. *Sarcophagi* were originally made of a stone which was supposed to consume the body, σάρξ flesh, φάγω to eat. The *bregma* is that part of a child's head where sweating or moisture is first observed, from βρέχω to moisten. We speak of the *vagus* or wandering nerve, and call the windpipe the trachea because it is rough, τραχεῖα.

3. *The cause for the effect.* In this class of words we have such as *intertrigo*, to rub together, designating the disease caused by such friction; *nausea*, literally ship sickness, from ναῦς, a ship; and we now hear of people having *malaria*, when they mean they have a disease caused by *malaria* or bad air.

4. *The place for the thing.* In this class of words we have copper, *cuprum*, from Cyprus; *colchicum* from Colchis, Κολχίς, in Asia; *magnesia* and *magnets* from Magnesia a district in Thessaly; *chalybeates*, named from the Chalybes (Χάλυβες), who dwelt in Pontus; *coco* from the province Choco in Mexico; rhubarb from *Rha bar-*

barum, so called because it grew on the wild banks of the river *Rha* or *Volga*. *Charlatan* comes through the French from the Italian *ciarlatano*, an inhabitant of *Cerreto*. The people of this town were notorious for their boastful language, and we find in Italian the verb *cialare*, meaning to brag. From *Taranto* we get *tarantula*, a spider whose bite was supposed to cause the dancing mania of the middle ages, the affection being called *tarantism*, for which about the only remedy was a peculiar variety of music which is still known as the *tarantella*.

Clap, the vulgar word for gonorrhœa is derived from the name of a part of Paris, *Le Clapier*, the word meaning literally a rabbit burrow. This quarter contained numerous houses of ill fame and soon the common French word for brothel was *clapise*, hence the name of the disease acquired in such places.

5. *The name of the inventor or discoverer for the name of the thing.* Every student of human anatomy has observed the common practice of naming a newly discovered part of the body from the person first describing it. Thus we have the fissures of *Sylvius*, *Rolando*, and *Glasser*, the *lobus Spigelii*, the *foramen of Monro* and *Thebesius*, and many other similar expressions. In physics *Voltaism*, *Galvanism*, and *Faradism* are named after *Volta*, *Galvani* and *Faraday* who first observed these varieties of electrical phenomena. *Nicotine* and *pelletierine* are derived from the names of *Nicot* and *Pelletier*. *Davyum* was named after *Sir Humphrey Davy*, *krameria* after the botanist *Kramer*, the *guillotine* immortalizes the name of the supposed inventor *Dr. Guillotine*, and *Dr. Condom* has a "*monumentum acre perennius*" in the appliance which commemorates his name.

There is also a large number of plants named in honor of distinguished persons. *Asclepias*, Greek Ἀσκληπίας, is the botanic name of the milkweed. *Juglans* butternut, is the nut of Jove, *Jovisglans*. *Valerian* is named in honor of the Roman Emperor, *cinchona* is named after the countess of *Chinchon* who is said to have been cured by the use of this plant. *Asagrava* is derived from the name of the distinguished botanist, Dr. Asa Gray.

6. *The name of the thing derived from something resembling it.* This is pure metaphor and is the commonest way in which words assume new meanings. Coleridge has compared words to some of the infusoria which increase by fission, continually splitting themselves up into new organisms. This method of growth in language is remarkably exemplified in tongues having but a comparatively small number of words. The Chinese for example have only 1500 words and yet these have at least a 100,000 meanings, and if you will turn to the word *zug* in your German dictionary you will find over thirty English words given as equivalents. It is not necessary to make any extended search to illustrate this method of word formation.* The *vomer* is the ploughshare, the *tibia*, a flute; the *clitoris*, from Greek κλεις, a key, is the door tender; the *testes* are *evidences* of virility; *theobroma* is the food of the gods, θεός god, βρῶμα food. The little tumors which form in the eyelids are hail-

* It is a remarkable fact that synonymes for vulgar or obscene things are always most numerous, a fact which does no great credit to the natural bent of the human imagination. Thus we find in the Latin medical writers some 200 names for the *anus*, *penis* and *vulva*. Among the Latin names for the male organ of generation are:—*Clava*, *cauda*, *columnna*, *gladius*, *penis*, *pyramis*, *radix*, *ramus*, *trabs*, *vas*, *vena*, and *vomer*.

For the external female genitals we find among a hundred others:—*Annulus*, *cava*, *delta*, *folliculus*, *fovea*, *fundus*, *hiatus*, *mesa*, *ostium*, *porta*, *sinus*, *sulcus*, *trema* and *vulva*. These *nomina impudica* all illustrate the formation of metaphorical neologisms.

stones, from the Greek *χολδζιον*, while *pannus* is a *cloth* growing over the eye.

Sometimes these comparisons are expressed in the form of the words, and not implied as in the above cases. The Greek termination *oid*, from *ειδος*, an image, and the Latin termination *formis*, form, being employed. This constitutes a figure of speech denominated by the rhetoricians as *simile*. We have *anthropoid*, manlike, *apes*, and *cunciform*, wedge-like, bones, as illustrations of this method of formation.

Many words in common use have strange and often obscure etymologies. Many of the dictionaries give no derivation of *syphilis*, yet it plainly comes from *σϋς*, a hog, and *φιλέω*, to love. In a poem published by the Italian Fracastoro, *Syphilis* was a swine-herd, very appropriately named, for he certainly ought to have been a lover of hogs. But he unfortunately acquired the *morbis Gallicus*, French disease, as the venereal affection was then designated in Italy.* The French called it *mal de Naples*, the Neapolitan disease, and no nation cared to claim it as their own invention, a fact that induced Voltaire to say: "The pox, like the fine arts, owes its origin to no particular race." As it soon became necessary to have a common word to designate the affection, the name of Fracastoro's swine-herd was adopted into nosology by Sauvage, being peculiarly appropriate, for by a slight change in meaning syphilis means a tendency to have scurfy skin like a hog, just as *hemaphilia*, blood loving, means a tendency to have hemorrhages.

* Quotations from the ancient writers are often given to prove that syphilis existed long before the fourteenth century. We find the following passage in the poems of Perseus, who lived 32-62 A. D.:

"*Tentemus fauces: tenero latet ulcus in ore*

Putre, quod haud deceat plebsia radereteta!"

But this "*putrid ulcer in the swollen throat*" might apply as well to scarlatina anginosa, diphtheria, or noma, as to syphilis.

The French word *enceinte*, now meaning pregnant, is derived from the Latin *incincta*, girded in. The Roman matron wore a girdle of a peculiar pattern to inform people that she was pregnant and her person sacred. At a later period *incincta* was applied to designate pregnancy, although the women went *ungirdled* when in that interesting condition.

The word *dexter*, the right hand, takes us back to the infancy of the Aryan race. This ancient people worshipped the sun, *bhog*, and the south was on the right while thus performing their orisons. The Sanskrit word for south was *dekkau*, allied to *dhu*, shining, and the early meaning of *dexter* was the south or shining hand. As the sun-god kept to the south, things seen in that direction were looked upon as of good omen as were afterward all things seen on the right hand. Things observed on the left, or north, the region of cold and darkness, were looked upon as unlucky, and so great has been the influence of this myth that many a cultivated lady at the present day feels more comfortable if she first sees the new moon over the right shoulder instead of the left. A *sinister* look is still literally a left-handed, that is, an ill-omened look. Moreover, the right hand is the skillful hand, and *dexterity*, right-handedness, is skillfulness. Among the Romans *sinisteritas*, left-handedness, was awkwardness.

The common Aryan word for God was *dyaus*, shining, a word found in the genitive of the Greek *Zeus*, *Ζεός* and *θεός* a god, the Latin *deus* and *Jupiter*, that is, *Diupater*, shining Father, the Italian *Dio* and the French *Dieu*, all meaning our bright Heavenly Father. It is quite possible, moreover, that our God is only a modification of the Sanskrit *bhog*, the rising sun.

The word used for *soul* or *spirit* in various Indo-European languages, is almost uniformly the same as that for *breath*. The Greek *πνεῦμα* (*pneuma*), meaning a gas or the soul, is derived from *πνέω*, to breathe, and the New Testament phrase, τὸ πνεῦμα ἁγίον, usually rendered "Holy Ghost," might from an etymological point of view be translated "sacred wind." So the Latin *spiritus* and our *spirit* are derived from *spiro*, to breathe. The ancients, observing that the soul winged an eternal flight with the cessation of respiration, applied a common word to both.

Van Helmont is said to have invented the word *gas*, and yet, whether conscious of the fact or not, he has made it resemble *geist*, the German word for soul.

In *nightmare* we still see the old Norse demi-god, *Mara*, who was said to strangle people in their sleep.

The *risus Sardonius*, observed in cases of lock-jaw, is derived from the tradition that in Sardinia there grew a plant which, when eaten, caused people to die of laughter or at least to die laughing.

Delirium is derived from the Latin *de*, off, and *lira*, a furrow or track. When a man is *delirious*, he has wandered from his normal mental track. The same poetical figure is observed in the slang phrase, "off his base."

We have given a sufficient number of examples to prove that imagination and poetry have played an important part in the building and remodeling of words. Sometimes when the origin of words is very obscure men have invented fanciful or legendary derivations. Such etymologies are seen when *formica*, an ant, is derived from *ferens micas*, carrying crumbs; *mors*, death, from *amarus* because it is bitter, or from *Mars* because

he is the god of war and death. *Cadaver*,* a corpse, has been derived by taking the first syllables of the words *caro data vermibus*, flesh given to the worms. Even the scholarly Archbishop Trench seems to favor the derivation of *crypt*, which evidently comes from *κρύπτω*, to hide, from "cryptit," because sinners in doing penance were placed in pits from which their cries were heard. In this case the cart has evidently been placed before the horse, for *cry pit* is but a corruption of *crypt*. We are reminded of the peasant's explanation of the word *Jew*: "They will *jeu* you and *jeu* you, and that is why they are called Jews."

Antimony, also, has a legend connected with its name. Basil Valentine was an abbot of a scientific turn of mind. He gave antimony to the hogs upon the monastery farm, and found that they thrived upon it, but when he dosed the monks with the same chemical he learned that it acted with well-nigh fatal violence. On this account he named it *antimonium*, not good for monks, from *ἀντί*, against, and *μόναχος*, a monk, or more directly from the French *moine*, a monk.

The word *crystal* is derived from the Greek *κρύσταλλος* through the Latin *crystallum*, which meant, originally, ice. Michaelis in his work entitled, "The Influence of Language on Opinions, and of Opinions on Language," shows how this word brought a ridiculous error in its train. Pliny tells us that crystals are ice which has been frozen so long that it has forever lost its fluidity; and in St. Augustine, one of the Church Fathers, we read:

* 1. *Mors* is derived from Aryan root, *mar*, meaning to die; cf. Sansk. *murtis*, body, *marasmus*, etc.

2. *Formica* is cognate with the Sanskrit *vamraka*, an ant, from the root *vam*, meaning to vomit. So named because the ant, when held in the hand, discharges formic acid. *Formication* is the name of a symptom in which the patient has the sensation of ants crawling over the skin.

3. *Cadaver* is derived from *cado*, to fall, and was first applied to the bodies of those who had fallen in battle. Cf. Greek *ptoma*, a corpse, from *pipto*, to fall. From *ptoma*, the word, *ptomaine*, a cadaveric alkaloid, is derived.

"What is a crystal? Snow hardened into ice for so many years that it cannot readily be dissolved by sun or fire."

We still employ the word *gonorrhœa*, from γόνη, semen, and ῥέω, to flow, although we know it is a flow of muco-pus.

As an example of the manner in which ideas influence language we may cite the notion of the alchemists who believed that there was sex in metals. Arsenic is derived from ἀρσενικός masculine, from ἄρσην a male. Silver was feminine and was sacred to Diana or the moon, *Luna*, a myth which has influenced medical practice even down to the present day. Dr. Martin tells us that nitrate of silver, still called *lunar* caustic, was first administered in epilepsy because it was supposed that epileptics were under the malign influence of the moon, as were all *lunatics*. It followed by a natural course of reasoning that the moon's metal, silver, must be the specific for all moon blasted patients, and this remedy continued its popularity until a few years since, the bromides became the fashionable drug in this affection.

Pliny tells that "*sordes hominis, sudor et oleum*," that is, "the dirty sweat and grease of man," are sovereign remedies for *angina*. As a consequence of this fallacy how many a quinsied youth has had a dirty stocking wound about his neck at night by his anxious but not over-scientific mother.

The nomenclature of the brain, moreover, shows how ideas may influence language. Our anatomical fathers believed that in the encephalon the homologues of all the parts of the body, both male and female, could be found in miniature; and if you will turn to your text book on anatomy to the description of the brain you will find arms *brachia*, legs *crura*, knees *corpora geniculata*,

breasts *corpora mammillaria*, five stomachs *ventriculi*, one of which was anciently called the womb, *utriculus*, a *vulva cerebri*, buttocks *nates*, testicles *testes*; a penis, *clava*; a vulgar name for the pubic hair, *flocculus*; a veil, *velum interpositum*, and a marriage bed, *thalamus*. With all this procreative apparatus before us, we are not surprised to find a union *fornix*, and numerous offspring, quadruplets, *corpora quadrigemina*.

CHAPTER IV.

THE LIFE AND DEATH OF WORDS.

IT is a common error to suppose that words, especially scientific terms, are born, as was Minerva from the head of Jove, complete, eternal and unchangeable. One of the advantages claimed for Latin in scientific nomenclature is that, being a "dead" language, the words will not be subject to those continual alterations observed in all modern tongues. The language of Homer is quite different from that of Sophocles who lived five hundred years later. Piers Plowman and Chaucer are unintelligible to the average English student of to-day. Italian is but a modified Latin, and in the language of medicine the student would find considerable difficulty in comprehending Banister in his "Anatomy of Man."

To be sure, many of our medical terms are identical with those employed 1800 years ago by Celsus, whose style has served as a model for medical writers down almost to the present decade. Jonathan Pereira, in a work published as late as 1870, advises the student to read Celsus in the original in order to acquire an elegant and accurate medical Latin style.

The alterations in the form of medical words may be traced most readily by studying a few terms which have found their way into the language of the people and have thus undergone changes corresponding to those of their vulgar lay associates.

Horne Looke, in his work entitled "Winged Words," has called attention to the fact that words in their progress through the ages, like regiments of soldiers on the march, are liable to lose letters and syllables as the

latter are liable to lose soldiers by sickness, casualty and desertion. The word *elemosynary*, from the Greek ἐλεημοσύνη, consisting originally of twelve letters and seven syllables, has become *alms*, in which only four letters and a single syllable remain.

The classical medical word *hemisrania*, from the Greek ἡμισρανία, *half a skull*, became in Low Latin *migræna* by a process of clipping and alteration, just as in the vulgar English of to-day we hear people saying "morphydite" for "hermaphrodite," "janders" for *jaundice*, which is itself a corruption of the French *jaunisse*, yellowness, and "anguintum" for *unguentum hydrargyri*. From this mediæval Latin word *migræna* the French *migraine*, often used in medical works, was formed, and *migraine*, when it traveled across the English Channel, was changed into *megrim*, a word recognized in all our medical dictionaries.

The Greek κυνάγχη, *cyanche*, from κύων, a dog, and ἀγγω, to choke, that is, to choke like a dog, became in Low Latin *esquinantia* from which the French *esquinancie* and our *quinsy* have been formed.

Paralysis, Greek παράλυσις, an abnormal loosening, or loosening on the side, became in middle English, *parlesy*, and in modern English *palsy*. *Hydrops*, Greek ὕδρωψ, a watery appearance, became *hydropisie* in Old French, *ydropsie* in Old English, and *dropsy* in the modern vernacular.

Rachitis, Greek ραχίτις, an inflammation of the spinal column, has become *rickets* in the vernacular, although it has been claimed that *rachitis* is derived from *rickets* and that *rickets* is derived from the Anglo-Saxon *wringan*, to twist. *Cataract*, as applied to opacity of the crystalline lens, is commonly derived from καταρράκτης, a rushing down, a word which is not at all suited to the nature

of the disease. The word was probably *catarapt*, from the Greek *καταρράπτεις*, a covering over, the crystalline lens having the appearance of being covered over with a white film or cloth. But as people could see no real meaning in *catarapt* it was changed, according to the law mentioned in the preceding chapter, into *cataract*, a word with which they were already familiar.

Glycyrrhiza, from the Greek *γλυκύριζα*, sweet root, was early corrupted into the Latin *liquiritia*, and in English into liquorice and licorice. Trench, however, inclines to the belief that liquorice is derived from *liquor* as Fuller uses the expression "glycyrrhize or liquoris." But this may have been due to Fuller's ignorance of the origin of the word. Tansy comes to us through the Latin *tanacetum*, which, in its turn, is a corruption of *athanasia* (*ἀθανασία*) immortality.

Many Latin words used in medicine have undergone similar changes. *Inula campana* has become *elecampane: lactucarum*, lettuce; *bipennula*, *pimpinella*; and *barbascum* is now known as *verbascum*. *Eglantine* is only a modification of *aculentinus*, and the Spanish *cebadilla*, a diminutive of *cebada*, barley, is now found in our works on materia medica as *sabbadilla*.

We have only to glance at the last American Pharmacopœia to convince ourselves that changes are continually taking place in the language of medicine. The gender of the Latin terms for the salts ending in *as* and *is* was changed in 1880 from feminine to masculine. From 1860–1880, *calcii carbonas precipitata* was the proper officinal name for precipitated chalk; now it is written *calcii carbonas precipitatus*. The names of all the alkaloids previously ending in *ia*, such as *morphia*, *strychnia* and *quinia*, were modified so that the ending is now *ina*; thus, *morphina*, *strychnina* and *quinina*. The

names of neutral principles had their terminations changed from *ina* to *inum*, being made neuter instead of feminine. *Sulphuretum* was changed to *sulphidum*. *Arsenicum*, *manganesium*, *brominium*, *iodinium* and *chlorinium* were contracted into *arsenium*, *manganum*, *bromum*, *iodum* and *chlorum*. *Chirctta* was changed to *chirata*, *assafætida* to *asafætida*, *gambogia* to *cambogia*, *glycerina* to *glycerinum*, and *pyroxylon* became *pyroxylum*.

Adjectives derived from words thus changed were also remodeled; thus, *chlorinatus* became *chloratus*, and *arseniatus*, *arsenatus*. *Redactum* was supplanted by *reductum*. The gender of *rhus* was changed from neuter to feminine. Similar changes have been made in the nomenclature of diseases, and in other departments of medical science.

Your attention has already been called to the fact that words, like the cells of animals, die when their natural functions have been fulfilled. In Greek the older word for gold (*αὔρος*) was early dropped for *χρυσός*, the necessary, and thousands of words in the older English works are never heard in conversation to-day. During the last half century there has been a great decline in the use of Latin in medicine. Only fifteen years ago Dr. Pareira mentions in one of his works that he knew an eminent hospital surgeon who confessed his inability to write directions to the patient in his prescriptions in correct Latin, while at present it would be quite as remarkable to discover a surgeon who could truthfully admit the contrary. A host of terms connected with blood-letting have disappeared from our medical works. Such words as *melanagogus*, *acopa*, *antiloimica*, *antiscolica*, *bezoardic*, *phthirotionia* and *alaphangina* seem strange to the modern practitioner. Directions to the patient are, in America, no longer written in Latin, for our drug-

gists could not translate them. Even the common expression, "*pro re nata*" has been rendered "for the baby just born." "*Maneat in lecto*," "let the patient remain in bed," has been translated, "to be taken in milk in the morning," while "*mane in lacte*" has been rendered "remain in bed."

But a few years have elapsed since the pharmacopœias of various nations and colleges were uniformly printed in Latin. The first United States Pharmacopœia was printed in both Latin and English. The modern Greek Pharmacopœia is printed both in Latin and the vernacular, but with this exception, Latin has been quite generally abandoned except in nomenclature.

Moreover, old remedies and names for diseases are constantly disappearing. *Lyssa* gave way to *hydrophobia*, and this is now very properly being abandoned for *rabies*. The once popular remedy, a *pilula perpetua*, a pill made of metallic antimony, which had perpetual virtues of a cathartic nature, and could be used by any number of patients, is no longer employed, and we hear as little now of *arteriotomy*, first practiced by Aratæus, as we do of Bishop Berkeley's tar water cure or of "Perkins' tractors."

Turning again to the last edition of the U. S. Pharmacopœia, we observe that although the names of many remedies have been changed, at least as many more have been dropped in ten years. We do not mean to say that the board of scientific gentlemen who have charge of the revision of the Pharmacopœia once in ten years are endowed with verbicidal powers, yet they give stunning blows to many words which at first cause them to fall into disuse and then into decay. After the lapse of a few decades, such words will be brought to light only by the aid of historical research, being lifeless objects, mere

skeletons which remind us of a past vitality. It is on account of these numerous mummy words that the student finds so much difficulty in understanding the works of the ancient and mediæval medical authors.

Sometimes the old words remain with altered meaning. *Metria* no longer means womb disease, but puerperal fever, and *hysteria* has far more to do with the nervous system than with the female reproductive organs. *Aristolochia*, from ἄριστος, best, and λοχία, child-bed, was formerly applied to an entire class of oxytocic remedies, but is now limited to the name of a single plant, *birthwort*, or Virginia snake root.

Still more frequently words become old and decrepit, losing the vigor with which they were once so pregnant. We meet with such archaic expressions in the language of the aged. *Syncope* is now preferred to *deliquium animi*, *intussusception* to *ileus*, and so on.

We thus see that the component parts of a language are in a constant state of change, coming into existence, changing their form, and dying of old age, like beings endowed with life.

PART II.

THE LATIN ELEMENT IN THE LANGUAGE OF MEDICINE.

CHAPTER I.

ORTHOGRAPHY.

THE letters employed in medical Latin are the same in number, power and character as those used in modern English. In classical Latin there was no *j*, *v*, *n* or *w*, while *k*, *x* and *z* were used only in words derived from the Greek. In writing Roman numerals the final *i* was written *j*, thus *vijj*, a custom still practiced in writing prescriptions. In the fifteenth century this final *j* was employed instead of *i* to indicate the consonant sound of *y*, and we now ascribe to *j* a sound indicated by *dzh*.

V also is of recent origin and is used to indicate the consonant sound of *u*; and *w*, i. e. *uu*, is merely a new symbol to indicate another consonant sound of *u* before a vowel, as in *equus*, now pronounced *ekwus*. *W* is found in several medical Latin words derived from proper names, e. g. *Corpora Wolfiana*, *Ossa Wormiana*, *Waltheria*, *Wintera* and *Wrightia*. In classical Latin *k* was found only before *λ*, but in medical Latin it is found in other positions, for example before *r* in *Krameria*, a word derived from the name of the celebrated Dr. Kramer.

Initial *x*, *y* and *z* are found only in Latin words of foreign origin, thus: *xeroderma*, from ξερός dry, and δέρμα skin; *Yttrium* from *Ytterby*, a Swedish town, and *zymosis*, from ζυμέω, to ferment.

The letter *y* was borrowed by the Romans from the Greek to designate the sound of the Greek *upsilon* which differed from the Latin *u*.

The letters are divided into classes as follows:—

1. Vowels: *a, e, i, o, u, y*.
2. Consonants

{	liquids, <i>l, m, n, r</i> .
	mutēs {
	labials, <i>p, b, f, ph</i> and <i>v</i> .
	palatals, <i>c, ch, g, k, q</i> and <i>j</i> .
	linguals, <i>t, th</i> and <i>d</i> .
sibilant, <i>s</i> .	
aspirate, <i>h</i> .	
double consonants, <i>x</i> and <i>z</i> .	

X is equivalent to *cs, ks, gs, or chs*.

Z is equivalent to *ds* or *ts*.

CHAPTER II.

ORTHOEPY.

ORTHOEPY is the art of pronouncing words correctly. The ancient pronunciation of Latin has to a great extent been lost and it is extremely doubtful if it can ever be recovered. Numerous attempts have been made to discover and restore the classical pronunciation but all such efforts are based upon hypotheses incapable of demonstration. The English method* of pronouncing Latin should be learned by every student contemplating the study of medicine.

1. Because many Latin words used in medical literature have become thoroughly Anglicised and the use of any other than the English method of pronunciation would sound pedantic, affected, and ridiculous. Such familiar words as *vapor*, *cicatrix* and *vagina* would scarcely be recognized if pronounced *wah' por*, *kee kah'-treeex* and *wah ghce'nah*. according to the so-called Continental method.

2. Other Latin words have long been pronounced by the medical profession strictly in accordance with English methods, and the introduction of any other system would only serve to introduce fresh confusion

* The literary schools and colleges of this country are about equally divided between the three pronunciations of Latin, *English*, *Continental* and *Roman*. A small majority of the schools, however, in 1885, still adhered to the English method, while not one educated man in ten would pronounce Latin in accordance with the rules of the Continental or Roman methods. Allen and Greenough, in their Latin grammar, direct the student to pronounce familiar Latin phrases in accordance with the English method, although they advocate the Continental method for use in schools.

Furthermore, every European nation pronounces Latin according to the sounds of the letters in its own language. Why, then, should the English make themselves ridiculous by pretending to restore the ancient pronunciation of the Roman tongue?

A few physicians, displaying more pedantry than good sense, propose to give the Continental sounds of the vowels and retain the English sounds of the consonants in pronouncing Latin medical terms! This method (?) of pronunciation is beneath criticism. Medical technical terms should be regarded as English words borrowed, for convenience sake, from the classical languages.

into medical orthoepy. Not one medical man in a thousand would pronounce *biceps* bee'kapes, or *cilium* ke'le oom.

3. A study of the rules of pronunciation, as applied according to the English method, will be of material assistance to the student in determining the pronunciation of all words found in his text-books, whether they be of Latin or other origin.

For these reasons we advocate the use of the English method of pronunciation of all words used in medical works with the exception of those recently transferred to our vocabulary from the modern foreign languages, such as the French, German and Italian.

In order to pronounce correctly in accordance to the rules of the English method a knowledge of the following particulars is requisite:—

1. Of the *sounds of the letters* in all their combinations.
2. Of the *quantity* of the penultimate syllables of words.
3. Of the *place of the accent*, both primary and secondary.
4. Of the *mode of dividing words into syllables*.

SECTION I.—THE SOUNDS OF THE LETTERS.

I. *Of the Vowels:*

RULE I. *A vowel at the end of an accented syllable has its long English sound.* Examples: Mā'nia, vē'na, vī'num, ō'ra and tū'ba, in which the accented vowels are pronounced as in *Jane*, *mete*, *wine*, *go* and *cube*.

Remark. This rule is often violated, in fact usually violated, in the names of inflammatory diseases ending in *itis*. Bronchi'tis is the correct pronunciation, not bronchē'tis. You should certainly have a uniform system of pronunciation, and if you use bronchē'tis you should also use ki'koom for *cæcum*.

A at the end of an unaccented syllable has the sound of *a* in *father*; thus *co'cā*, *mistu'rā*.

E, *o* and *u* at the end of unaccented syllables have about the same sound as when accented, but shorter and less distinct; thus *re'te*, *petas'sa*, *ge'nu*.

I final, always has its long English sound; thus *mus'culi*, *au'ri*.

I at the end of an unaccented syllable, not final, has its short sound as in *if*, ex. *tib'ia*.

Except at the end of the first syllable of a word, the second of which is accented, when the long sound is the rule; thus *vite'lus*, *si āl'la gō'gā*.

Y is pronounced like *i* in the same situations.

RULE II. *A vowel has its short English sound when followed by a consonant in the same syllable, e. g. cās'sia, mēn tā'lis, vis cūs, vōm'ica, būlla*, in which the vowels are pronounced as in *cat*, *met*, *fox*, and *but*.

Exceptions. 1. *A*, before *r* and a consonant, is pronounced as in English; thus *pars*, as in *part*.

2. *Es* final is pronounced like *ease*; thus *pubes*.

3. *Os* at the end of plural cases is pronounced like *ose* in *dose*; thus *oculos*, *equos*.

II. Of the Diphthongs:

1. *æ* and *œ* are always diphthongs unless separated by a diaeresis. They are pronounced as *e* would be in the same situations; thus *ne'vus* (*nē'vus*), *hematox'ylo'n* (*hēm'atōx'ylo'n*), *fœniculum* (*fēnic'ulum*).

2. *ai*, *ei*, *oi* and *yi* usually have the vowels pronounced separately; thus *mā'ys*, *dīē'ī*, *cō'itus*.

3. *Au* when a diphthong is pronounced like *aw* in *saw*; thus, *aura* (*aw'rah*), *haustus* (*haws'tus*).

4. *Eu* when a diphthong is pronounced like long *u*; thus, *eūcalyp'tus*, *eūthana'sia*.

Observation. *Eu* at the termination of Latin nouns and adjectives are pronounced separately; thus, *nu'cle us*, *au're us*.

5. *Ua*, *ue*, *ui*, *uo* and *uu* are pronounced like *wa*, *we*, etc.; thus, *aqua* (*ā'kwah*), *quercus* (*kwer'cus*), *liquor* (*lī'kwor*), *equus* (*ē'kwus*). They are always diphthongs after *q* and *g*, and sometimes after *s*.

III. Of the Consonants.

The consonants in Latin are usually pronounced like the corresponding English letters in the same situations. Particular attention, however, should be paid to the following rules and cases :

RULE I. *C* has the sound of *s* and *g* the sound of *j*, before *e*, *i* and *y* and the diphthongs *æ* and *œ*; thus, çerium, çicu'ta, çydo'nium, çæ'sium, çæli'aca, gena, gingi'va, gyrus, Gæta.

Observation 1. It is reasonably certain that *c* and *g* were always hard in the language of the ancient Romans, and furthermore, it is probable that *g* had a sound quite as much like *k* or *c* hard as the sound which we now ascribe to it.

Observation 2. A few medical scholars are in the habit of giving the hard sound of *c* and *g* before *e* and *y* in words of Greek origin, on the ground that we should assign to these letters the same sounds found in the original language; thus, *gynecology*, *cyanogen* and *hyoscyamus* are pronounced ghine col'ogy, kyanoghen and hyosky'a mus. But this method of pronunciation is inconsistent with general usage and incorrect, for upon this principle *geometry*, *genesis*, and *cylinder* should be pronounced gheometry, ghenesis, and kylinder.

RULE II. *C* and *g* before consonants, the vowels *a*, *o*, and *u*, and diphthongs with the exception of *æ* and *œ*, have their hard sounds, i. e., *c* has the sound of *k*, and *g* the sound of *g* in *gay*; thus, *cadmium*, *corium*, *galbanum*, *guaiacum*, etc.

Remark 1. *C* following or ending an accented syllable before *i* followed by a vowel has the sound of *sh*; thus, *acacia* (akashea).

Remark 2. *G* before *g* soft is assimilated to it in sound; thus, *agger* (ajjer).

Remark 3. *C* hard before *c* soft is not thus assimilated. We frequently hear *micrococci* pronounced, by those ignorant of this rule, as if it were spelled *microcossi* or *microcokki*.

RULE III. *Ch* in all pure Latin words and in words of Greek origin has the sound of *k*; thus, *charta*, *chalion*, pronounced kâr'tah, kâlâ'zion.

Observation. This rule is frequently violated. We often hear *chian* pronounced tchian, *catechu*, catchew, and *colchicum* has been so generally

mispronounced that any attempt to restore its proper sound would be vain. The word should be *kōl'kikum*, not *koltch'ikum*, as we usually hear it, although the latter is more euphonious.

Chiretta, or *chirata* according to the revised Pharmacopœia, is an exception to the above rule because the word is not properly Latin but Hindustani, in which language it is pronounced as if spelled *tchira'ta*.

RULE IV. *Cm, cn, ct, gm, gn, mn, tm, ps, phth, and pt, at the beginning of words are pronounced with the first letter silent; thus, cuius (nī'kus), gmelin (melin), gnome (nome), mnemonics (nemonics), tmesis (mesis), psora (sora), pterygoid (terygoid), phtheiri'asis (thiri'asis).*

RULE V. *S has usually its hissing sound, as in so, e. g., somnus.*

Exception 1. Si followed by a vowel and immediately succeeded by a consonant in an accented syllable, has the sound of sh in she; thus, xanthopsia (zanthop'shea).

Exception 2. Si followed by a vowel and immediately preceded by an accented vowel, has the sound of zhe; thus, aphasia (apha'zhea).

Exception 3. S final, after e, æ, au, b, m, n and r has the sound of z; thus, res (rēz), trabs, lens. S also has the sound of z in rosa, causa and residuum.

RULE VI. *T following or ending an accented syllable before i followed by a vowel has the sound of sh; thus, fortius (for'shēus), Arantius (aran'sheus).*

Exception. After s, t or x, in the above situation, t retains its hard sound; thus, paderastia, sextius.

RULE VII. *X at the beginning of words has the sound of z; thus, Xylophyllum (zylophyl'lum), Xanthina (zanthi'na). X at the end of syllables has the sound of ks; thus, axis (ak'sis).*

Exception 1. When ex or ux are followed by a vowel in an accented syllable, the x has the sound of gz; thus, exemplum (egzem'plum).

Exception 2. X ending an accented syllable before i followed by a vowel has the sound of ksh; thus, novius (nok'sheus).

SECTION II.—OF THE QUANTITIES OF THE SYLLABLES.

The *quantity* of a syllable is the relative time occupied in pronouncing it. But little attention is paid to quantity in

the pronunciation of Latin prose. It is necessary, however, to know the length of the penultimate (next to the last) syllable in order to place the accent correctly.

The sign of the long syllable is (—), of the short syllable (—), and of a common syllable, *i. e.* one that is sometimes long and sometimes short (≈). The student should disabuse his mind of the idea that quantity has anything to do with the sounds of the vowels. For example, *liquor* in Latin has the quantity of the *i* short, but is pronounced li'quor. *Spiritus* has the first *i* long in quantity, but is pronounced spiritus. This same remark will apply to Latinized Greek words.

The last syllable of a word is called the *ultimate*, the next to the last the *penult*, and the third from the last the *antepenult*.

RULE I. *All the diphthongs except those beginning with u are long.*

RULE II. *A vowel before a double consonant (x, z or j), or before any two consonants, except a mute followed by a liquid, is always long, although it has the short English sound; thus, extrác'tum, metál'lum, pyrëx'ia, but short in cer'ëbrum, Per'icles.*

RULE III. *A vowel before another vowel or diphthong, or before h followed by a vowel or diphthong, is short by nature; thus, al'lium, ret'rähens.*

Exception. There are numerous words of Greek origin used in medical works in which a single vowel represents a diphthong or the long vowels ω , or η ; thus, we have astheni'a, from ἀσθενεῖα where *i* is equivalent to the Greek εῖ; achillë'a, from the Greek ἀχιλλεῖα, and hydrozō'a, from ὑδροζῶα. In these cases the vowel representing the diphthong or long letter is always long in quantity regardless of position.

In other cases, where the above rules are not applicable, it is necessary to learn the quantity of the penultimate syllable. The student, for example, must know the *i* in the termination *ina* applied to the names of alkaloids in long; thus, quini'na, morphi'na; but the *i* is the termination *idum* in short; thus brom'idum, iod'idum. *A* in the termination *as* is long; thus phosphá'tis, nitra'tis, etc.

SECTION III.—OF THE ACCENT.

RULE I. *In words of two syllables the penult is always accented.* Examples, fē'mur, ul'na. rā'phe.

RULE II. *In words of more than two syllables, if the penult is long in quantity it is accented, but if short, the accent is on the antepenult.* Examples, acē'tum, hydrās'tis, orchī'tis, ac'īdum, ce'rium, an'thēmis.

Words of more than three syllables may have two accents, a primary and a secondary, as *hy''drocyan'idum*. The rules for determining the place of the secondary accent are as follows :

RULE III. *If only two syllables precede the primary accent, the secondary accent is placed upon the first syllable;* Examples, *hae''matox'yton, pros''tal'i'tis.*

RULE IV. *When more than two syllables precede the primary accent, the secondary accent is placed sometimes on the first and sometimes on the second syllables.* Examples, *per''itoni'tis, ventric''ulo'rum.*

SECTION IV.—DIVISION OF WORDS INTO SYLLABLES.

Every Latin word is divided into as many syllables as there are separate vowels and diphthongs, thus differing from the English in which there are numerous silent vowels. Examples, rē'tē, Pom pē'i i.

1. *H* between two vowels is joined to the vowel following it, as *tra-herē*.

Ch, ph, and th are treated like single letters equivalent to the Greek, *χ, φ, and θ.*

2. *G, tl, and thl,* when standing alone between two vowels, are always separated unless the first vowel be *u.* Examples, *neurog'lia, at'las, ath let'icus.*

3. *X* between two vowels, is united to the vowel preceding it, but in pronunciation its elementary sounds are separated; thus *axil'la* pronounced *ak-zil'la.*

4. A single consonant or a mute followed by *l* or *r* between the last two vowels of a word or between the vowels of any two *unaccented* syllables must be joined to the latter vowel; thus *ae ther, ru ber.*

5. A single consonant or mute with *l* or *r* after the vowel of an accented syllable, whether that accent be primary or secondary, is joined to the accented vowel; thus *funic'ulus*, *helleb'orus*, *lig'amēn'tum*.

6. Two consonants between two vowels must be separated; thus *cor'pus*, *aph'tha*.

7. When three consonants are placed between two vowels, the last, or if that be *l* or *r* preceded by a mute, the last two are joined to the latter vowel; thus *trans'versa'lis*, *fenes'tra*, *em'plas'trum*.

8. In dividing compound words into syllables, the component parts are to be separated, if the first part ends in a consonant. But if the first part ends in a vowel or has dropped its termination, it is to be divided like a simple word. Examples, *ambi dex'ter*, *semper'virens*.

ILLUSTRATIVE EXERCISES IN PRONUNCIATION.

In the following sentences the signs — and ~ indicate the English sounds of the vowels:

In fig'ī mūs praē ter'ē ā cū cūr'bī tās le'vēs, quaē Graē cī cū'phās vō cānt, scil'ī cet sī'nē scār''i fī cā''ti ō'nē. A rēn'tēs ēt sic'cās cū cūr bit'ū lās dī'cīt, quaē ad mō vēn'tūr cūm flām'mā. In tēr'dūm ē'nīm cūm ā'quā cāl'ī dā āp pōn'e bā'tur, quēm ād'mo dūm scrip'sit Al bū cā'sis, ca pit'ulo, "Dē ū'sō cū'cūr bit'ū lā'rūm. *CAELIUS AURELIA'NUS*.

Dē in'dē in ip'sā ār tē'ria vē nō'sā, in spi rā'tō ā'ē rī mīs cē'tūr et ēx spi rā''ti ō'nē ā fū lig'ī nē ēx pūr gā'tūr; āt'que ī'tem tād'ēm ā sīn ī'strō cōr'dīs vēn tric'ū lō tō'tūm mix-tūm pēr dī ās'tō lēn āt trā'hī tūr, āp'tā sū pēl'lex, ūt fī'āt spir'ī tūs vī tā'lis. Quōd ī'tā pēr pūl mō'nēs fī'āt cōm mū'nī cā'ti ō ēt praēp ā rā'ti ō, dō'cēt cōn jūnc'ti ō vā'ri ā et cōm mū nī cā'ti ō vē'naē ār tēr'ī ō'saē cūm ār tēr'ī ā vē nō'sā in pūl mōn'ī būs. Cōn fir'māt hōc māg ni tū'dō in sig'nīs vē'naē ār tēr'ī ō'saē, quaē nēc tā'lis nēc tād'tā ēs'sēt fāc'tā, nēc tād'tām ā cōr'dē ip'sō vīm pū rīs'sī mī sār'guī nīs in pūl mō'nēs ē mīt'tē rēt, ōb sō'lūm ē ō'rūm nū trī mēn'tūm; nēc cōr pūl mōn'ī būs hāc rā tī ō'ne sēr vī'rēt, cūm praē sēr'tim ān'te ā in ēm bry ō'ne sō le'rēt pūl mō'nēs ip'sī āl'ī ūn'dē nūtrī'rī, ōb mēm brān'ū lās il lās seū vāl'vū lās cōr'dīs ūs'quē ād hō'rūm nā tiv i tā'tem; ūt dō'cēt Gā lē'nus, etc.

SERVE'TUS.

CHAPTER III.

WORDS COMMONLY MISPRONOUNCED.

NO class of professional men mispronounce the technical words of their calling more commonly than physicians. This is sometimes due to defective elementary education, but more frequently it results from the blunders and bad example of medical orators and college professors, who, under the influence of the American spirit of freedom, declare themselves independent of all orthoepical and etymological rules. There is, however, but little excuse for these errors so commonly committed by men who place themselves before the profession as teachers, whether it be in the class-room or the medical society. Almost without exception our technical words are pronounced strictly in accordance with well established rules, but these rules are violated occasionally even by the makers of medical dictionaries. Thomas, for example, the most accurate of the medical lexicographers, pronounces *neurog'lia*, *neurogli'a*. Dunglison commits frequent errors, pronouncing *anæm'ic*, *anæ'mic*, thus violating one of the primary rules of English orthoepy;* and in a small "pronouncing medical lexicon" a

* Many people have the erroneous idea that the pronunciation of English words is a purely arbitrary matter, being determined by common usage and not depending upon any fixed rules. In words derived from the Latin, both the accent and the sounds of the vowels and diphthongs are determined by the English pronunciation of the Latin word. The Latin for *anæmic* is *anæmicus*, which must be pronounced *anem'icus*. Cutting off the termination *us*, we have *a nem'ic*, the proper English pronunciation.

In polysyllabic words of Latin origin, the place of the accent is determined in a different manner, the secondary accent of Latin words having the primary accent on the penult becoming the primary accent in English. For example, *vag'ina'lis* becomes *vag'inal*, not *vag'nal*; *cer'e'bra'lis* becomes *cer'e'bral*, not *cer'e'bral*.

We cannot, however, entirely ignore the influence of custom in the pronunciation of words. The Latin word *ver'ti'go* is almost universally pronounced *ver'tigo* in English, and common usage has made this pronunciation correct, although it was, at first, an error due to ignorance of the quantity of the penult. These occasional exceptions to the established rules of orthoepy do not prove that pronunciation is a purely arbitrary matter any more than the birth of an occasional monstrosity in the animal world would prove that species are not reproduced in accordance with fixed natural laws.

cursory examination has detected no less than forty of the most palpable errors.

In order to illustrate the frequency with which words are mispronounced, we will make use of an excellent method adopted by Dr. L. P. Meredith in his little book on "*Errors of Speech.*"

The study of orthoepy was so highly developed among the ancient Greeks that the mispronunciation of a single word by an orator was greeted by jeers and hisses. Let us imagine Prof. Blowmuch, of the X. Y. Z. Medical College, addressing the ancient class of Dr. Hippocrates:

"GENTLEMEN:— The subject of our dis'course (*hisses*) to-day will be vario'la (*hisses*), rubeo'la (*hisses*) and varioloid' (*hisses*). The etiolo'gy (*hisses*) of these affections is not well known. Some regard micrococki (*hisses*) as the *primum* (*hisses*) *causa*, others seek for fomi'tes (*hisses*). It is quite certain, however, that the det'ritus (*hisses*) of the pustules and the f'e'tid (*hisses*) odor of the disease contain an infectious principle. When occurring in ad'u'lt's (*hisses*) each vario'lous (*hisses*) pustule leaves a cic'a'trix (*hisses*) especially in the fa'cial (*hisses*) tissues, but the ab'domen (*hisses*) of a patient with much adipo'se (*hisses*) tissue may escape. With regard to treatment, use ammo'nii (*hisses*) a'c'etas (*hisses*) for a res'piratory (*hisses*) stimulant when ra'ls (*hisses*) and broo'ys (*hisses*) are heard in the lungs. Car'minatives (*hisses*) are sometimes indicated. Correct constipation with podoph'yllum (*hisses*) and hyoscy'a'mus (*hisses*), removing skybalæ (*hisses*) by means of an ene'ma (*hisses*). For local antiseptis, I prefer i'o'doform (*hisses*) and weak solutions of hydrarg'yrum (*hisses*), chlori'dum (*hisses*) corro'sivum (*hisses*). When there is much asthe'nia (*hisses*), a suppository of digit'al'is (*hisses*) and co'nium (*hisses*) may be inserted in an'o (*hisses*). When death occurs the clothing and even the cadäv'er (*hisses*) should be sent to the cr'e'matory (*hisses*)," etc.

Such blunders as the above are of daily occurrence; in fact the majority of the words in the following list were collected at medical meetings and in the class-room.

Although this chapter is, for convenience sake, placed under the head of the Latin element in the language of medicine, many words not derived from that source have been inserted.

The following are the signs indicating the pronunciation :

ā, ē, ī, ō, ū, as in *ale, mete, kite, dote* and *cube*.

ã, ě, ĭ, ǒ, ů, as in *mat, bet, bit, bot* and *but*.

ã as in *father*.

õõ as in *gooa*.

ōō as in *fool*.

c as in *cat*.

ç as in *cider*.

ch as in *chapter*.

g as in *gad*.

s as in *hiss*.

A.

abdomen, äb dō'men, *not* ab'do men.

abducens, äb dū'senz, *not* ab'doo sens.

aberrans, äb ä'r'ranz, *not* ab'er rans.

abluens, äb'lū enz, *not* ab lōō'ens.

abomasus, äb o mā'sus, *not* ä būm'a sus.

acacia, a kā'she a, *not* a kā'se a.

acanthus, a kān'thus, *not* äk'an thus.

acarus, äk'a rus, *not* a kā'rus.

acaulis, a kaw'is, *not* äk'aw lis.

accelerator, äk sel le rä'tor, *not* as sel'e ra tor.

acclimated, a klí'mā ted, *not* äk'li ma ted.

accouchement, ä'kōōsh'mōng', *not* a kōōsh'ment.

acephalus, ä sēph'a lus, *not* a se phā'lus.

- acephalic**, ā sě phāl'ic, *not* a sěph'a lic.
acetum, a sě'tum, *not* ās'e tum.
acetas, a sě'tas, *not* ās'e tas.
acetic, a sět'ic, *not* a sě'tic.
acetone, ās'e tōn, *not* ā sě'tone.
acetyl, ās'e tīl, *not* ā sě'tīl.
achaenium, a kē'ni um, *not* ā tchē'ni um.
achillea, ak īl lē'ā, *not* a kil'le ā.
acia, ā'shē ā, *not* ā'sē ā.
acidum, ās'i dum, *not* a sī'dum.
acies, ā'shī ēs, *not* ā'ses.
acinus, ās'i nus, *not* a sī'nus.
aconitum, āk o nī'tum, *not* a kōn'i tum.
acotyledon, a kōt y lē'don, *not* āk o tyl'e don.
acromion, a krō'mi on, *not* a krōm'ī on.
acyesis, a sī ē'sis, *not* a sy'e sis.
adenia, a dē'ni a, *not* ā dēn'ī a.
adeniform, a dēn'ī form, *not* a dē'ni form.
adeps, ā'dēps, *not* ād'eps.
adipose, ād'i pōs, *not* ad'i pōz.
adonis, a dō'nis, *not* ā dōn'is.
adult, ā dult', *not* ād'ult.
adynamia, ād ī nā'mi a, *not* ā dī nām'ī a.
adynamic, ād ī nām'ic, *not* ā dī nām'ic.
aegophony, ē gōf'o ny, *not* ē jōf'o ny.
aerobic, ā ē rōb'ic, *not* ē rō'bic.
aestus, ēs'tus, *not* ēz'tus.
aetiology, ēt ī ol'ogy, *not* ē ti ol'o gy.
afferens, āf'fe rens, *not* af fē'rens.
agamous, āg'a mūs, *not* a gā'mus.
agave, a gā'vē, *not* āg'āve.
ala, ā'lā, *not* āl'ā.
albinism, āl'bī nizm, *not* āl bī'nism.
aletris, āl'e tris, *not* ā lē'tris.
algae, āl'jē, *not* āl'gē.
algoid, āl'goid, *not* āl'joid.

- alienist**, āl'ye nist, *not* ā li ē'nist.
allantoic, āl lan tō'ic, *not* al lān'to ic.
allantois, al lān'to is, *not* al lān'toy.
allopathic, āl lo pāth'ic, *not* al lōp'a thic.
allopathy, al lōp'a thy, *not* āl'lo path y.
allotropic, āl lo trōp'ic, *not* al lōt'ro pic.
allotropy, āl lōt'ro py, *not* āl'lo trop y.
alloy, ālloy', *not* āl'loy.
aloe, āl'o e, *not* āl'ō, (Latin).
aloes, āl'ōz, *not* āl'ō ēz, (English).
alveolus, āl vē'o lus, *not* āl ve ō'lus.
amara, ā mā'ra, *not* ām'ara.
amarin, ām'a rin, *not* a mā'rin.
amine, ām'in or ām'ēn, *not* ā'mīn.
ammonia, ām mō'ni a, *not* ā mō'ni a.
amnion, ām'ni on, *not* ām nī'on.
amphora, ām'fo ra, *not* am pō'ra.
anaemic, a nēm'ic, *not* ā nē'mic.
anaemia, a nē'mi a, *not* ā nēm'i a.
analgesia, an al jē'si a, *not* an alge'si a.
anconeus, ān co nē'us, *not* an cō'ne us.
anemone, a nēm'ō nē, *not* ān'e mōn.
anethum, a nē'thum, *not* ān'e thum.
angina, ān jī'nā, *not* an'gī nā.
anilin, ān'i līn, *not* ān'i līn.
anisum, a nī'sum, *not* ān'i sum.
anticus, an tī'cus, *not* ān'ti cus.
antithenar, ān tīth'e nar, *not* an ti thē'nar.
antitragus, ān tīt'ra gus, *not* an'ti tra gus.
anus, ā'nus, *not* ān'us.
aphrodisiac, ā frō dīzh'i ac, *not* āf ro dis'si ac.
aphthae, āf'thē, *not* āp'the.
apocynum, a pōs'i num, *not* ā po sy'num.
aqua, ā'kwā, *not* āk'wā.
arabic, ār'a bic, *not* ā rā'bic.
archebiosis, ar ke bī'ō sis, *not* ar ke bī ō'sis.

areola, á rē'o la, *not* ar e ō'la.
argemone, ár jēm'o ne, *not* ár'ge mon y.
arthritis, ár thrí'tis, *not* ár thrē'tis.
arytenoid, a rit'e noid, *not* ary tē'noid.
ascaris, ás'ka ris, *not* as ká'ris.
asthenia, ás the nī'a, *not* ás thē'ni a.
atropa, át'ro pa, *not* a trō'pa.
attollens, át tol'lens, *not* át'tol lens.
atrahens, át'ra hens, *not* a trā'hens.
atrophic, a trōf'ic, *not* ā trō'fic.
azote, āz'ōte, *not* ā zōt'.
azygos, āz'ī gōs, *not* a zī'gos.

B.

balanus, bāl'ā nus, *not* ba lā'nus.
balsamum, bāl'sa mum, *not* bāwl sāmum.
barbadoes, bār bā'dōz, *not* bār'ba dōz.
baryta, ba rī'ta, *not* bār'ī ta.
basilic, ba sīl'ic, *not* bās'ī lic.
bdellium, dēl'li um, *not* be dēl'li um.
benzoin, ben zō'in, *not* ben'zo in.
benzoinum, ben zō'ī num, or ben zo i'num.
beriberi, bā rē bā'rē, *not* ber'ry berry.
bifurcate, bi fūr'cāte, *not* bi'fur cate.
bimanous, bīm'a nus, *not* bī mā'nus.
binary, bī'na ry, *not* bīn'a ry.
bismuth, biz'muth, *not* bīss'muth.
biternate, bi tēr'nate, *not* bit'er nate.
bitumen, bi tū'men, *not* bit'u men.
blastema, blās tē'ma, *not* blās'te ma.
boletus, bo lē'tus *not* bōl'e tus.
bougie, bōō'zhē', *not* bōō jee'.
brachial, brā'ke al or brāk'e al.
brassica, brās'si ca, *not* brās sī'ca.
bromidum, brōm'ī dum, *not* bro mī'dum.
bronchitis, brōng kī'tis, *not* brōn kē'tis.

bruit, brwē, *not* brōō'y.
buchu, bōō'kōō, *not* bū'tchew.
butyric, bū tī'ic, *not* bū tī'ric.
butyryn, bū'tī rīn, *not* butter ēn'.

C.

cacao, cā cā'o, *not* cā'ka o.
cachexia, kā kēx'i a, *not* ká tchēx'i a.
cadaver, ca dā'ver, *not* cā dāv'er.
caducus, ca dū'cus, *not* cād'u cus.
caffeina, cāf fe ī'nā, *not* cāf fē'nā.
calabar, cal a bār', *not* cāl'a ber.
calcaneum, cāl cā'ne um, *not* cal ca nē'um.
caligo, cā lī'gō, *not* cāl'i go.
calomelas, ca lōm'e lās, *not* cal o mēl'as.
caulophyllum, cawl ō phīl'lum, *not* cau lōph'il lum.
calor, cā'lor, *not* cāl'or.
camphora, kām'fo rā, *not* kām fō'rā.
cancelli, kån sēl'li, *not* kan'sel li.
canine, kā nīn', *not* kā'nīn nor kā nēn'.
cannabinum, kån nāb'i num, *not* kån nā bī'num.
capillary, kāp'il la ry, preferable to ka pil'la ry.
carminative, kār mīn'a tīve, *not* kār'mi na tīve.
carotid, kā rōt'id, *not* ka rō'tid.
caryophyllum, kār ī o fil'lum, *not* ka rī ōf'il lum.
cassava, cās sāv'vā, *not* cās'sa vā.
cayenne, kā ēn', *not* kī en'.
cephalic, se fāl'ic, *not* sēf'al ic.
ceratum, sē rā'tum, *not* sēr'a tum.
cerebral, sēr'e bral, *not* se rē'bral.
cerebrum, sēr'e brum, *not* se rē'brum.
cerebro-spinal, sēr'e bro-spī'nal, *not* se rē'bro-spī'nal.
cervicis, sēr vī'cis, *not* ser'vi cis.
cervical, ser'vi cal, *not* ser vī'cal.—*Webster gives latter.*
chalazion, ka lāz'ion, *not* sha lāz'ion.
chartula, kār'tu la, *not* tchār'tu la.

- chemosis**, kē mō'sis, *not tche mō'sis.*
chenopodium, kēn o pō'di um, *not tchē no pōd'i um.*
chirata, tchē rā'tā or kī rā'tā.
chiroprdist, kī rōp'o dist, *not tchī rop'o dist.*
chloridum, klor'i dum, *not klō rī'dum.*
chorion, kō'ri on, *not ko rī'on.*
chorea, ko rē'a, *not kōr'e a.*
chyle, kīl, *not tchīl.*
chyme, kīm, *not tchīm.*
chymification, kīm i fi kā'shūn, *not kī mi fi kā'shun.*
cicatrix, si kā'trix, *not si kāt'rix nor sik'a trix.*
cimicifuga, sīm i sif'u gā, *not sim i si fū'gā.*
citras, sī'tras, *not sit'ras.*
citrate, sīt'rate, *not sī'trate.*
clematis, klēm'a tis, *not kle māt'is.*
cloaca, klō a'cā, *not klō'a cā.*
cocaine, kō'ca ĩn or cō'ca ĩn, *not co cā'ĩn.*
— cocci, kōk'sī, *not kōk'kī.*
coccyx, kōk'six, *not kōs'six.*
coccygis, kōk sī'jis, *not kōk'sī jis.*
cochineal, kōtch'ī nēl. *not kō'kī nēl.*
cochlea, kōk'le a, *not kō'kle a.*
codein, kō'dē ĩn, *not ko dē'ĩn.*
codeina, kō de ĩ'nā, *not co dī'na.*
coitus, kō'ĩ tus, *not kō ĩ'tus.*
comedo, kōm'e dō, *not ko mē'dō.*
condom, kōn'dōm, *not kūn'dūm.*
conduit, kōn'dit, *not kōn'du it.*
condyle, kōn'dil, *not kōn'dil.*
conein, kō nē'ĩn, *not kō'ne ĩn.*
conium, kō nī'um, *not cō'ni um.*
conjunctiva, kōn jūnk tī'vā, *not kōn junc'ti vā.*
conoid, kō'noid, *not kōn'oid.*
conserve, cōn'serve, *not conserve'.*
contour, kōn tōōr', *not kon'toor.*
copaiba, kō pā'bā, *not copī'bā nor co pē'bā.*

coracoid, kōr'a koid, *not* kō'ra koid.
corium, kō'ri um, *not* kō ri'um.
corolla, kō rōl'lah, *not* kō rāl'lah.
corona, ko rō'nah, *not* kōr'o nah.
coronoid, kōr'o noid, *not* ko rō'noid.
corpora, kōr'pō rā, *not* kor pō'rā.
cotyledon, kot i lē'don, *not* ko til'e don,
cranium, krā'nī um, *not* krān'i um.
crematory, krēm'a tō ry, *not* krē'ma tō ry.
cricoid, krī'koid, *not* krē'koid.
crotalus, krōt'a lus, *not* krō'ta lus.
crureus, kru rē'us, *not* krōō're us.
cubeba, kū bē'bah, *not* ku'be bah.
culinary, kū'li nā ry, *not* kūl'i nā ry.
cuneiform, kū'nē i form, *not* kū nē'i form.
curare, kū rā'rē or kōō rah'rā, *not* kū rā're.
curator, kū rā'tor, *not* kūr'a tor.
cyanidum, sī ān'i dum, *not* sī a nī'dum.
cyanosis, sī ā nō'sis, *not* sī ān'o sis.
cyclopean, sy klō pē'an, *not* sy klōp'e an.
cynanche, sī nāng'kē, *not* sī'nā kē.
cytoblast, sīt'o blast, *not* sī'to blast.

D.

decubitus, de cū'bi tus, *not* dēc ū bī'tus.
demodex, dēm'o dex, *not* dē mō'dex.
dengue, dāng'gā, *not* dēng'gū.
depilatory, de pīl'a to ry, *not* dēp'il a to ry.
deprimens, dēp'ri mens, *not* de pī'mens.
depurant, dēp'ū rānt, *not* dē pū'rānt.
detritus, de trī'tus, *not* dēt'ri tus.
detrital, dēt'tri tal, *not* de trī'tal.
diabetes, dī ä bē'tēz, *not* dē ä bēt'es.
diabetic, dī a bēt'ic, *not* dī ä bē'tic.
diachylon, dī a kī'lōn, preferable to di āk'i lon.
diaphanous, dī āf'a nūs, *not* di a fā'nūs.

diaphragmatic, dī a frāg māt'ic, *not* di a frām māt'ic.
diastole, dī ās'tō le, *not* dī'ās tōl.
diastase, dī'ās tāz, *not* di ās'tase.
digitalis, dij i tā'lis, *not* dij i tā'lis.
diphtheria, dif thē'ria, preferable to dip thē'ria.
diploe, dīp'lō e, *not* dī plō'e.
discutient, dis kū'shent, *not* dis kū'ti ent.
distoma, dis'to ma, *not* di stō'ma.
dulcamara, dūl ka mā'rah, *not* dul kām'a rah.
duodenal, dū ōd'e nal, *not* du o dē'nal.
duodenum, dū o dē'num, *not* dū ōd'e num.
dynamite, dīn'a mīt, *not* dī'na mīt.
dyspareunia, dīs pa rū'ni ah, *not* dīs pa rōō'ny.
dyspnoea, disp nē'ah, *not* dīs'ne ah.

E.

ecdysis, ěk'dī sis, *not* ec dī'sis.
echinococcus, ě kī'no kok'kūs, *not* ěk'i no kok'kus.
ecthyma, ěk thī'mah, *not* ěk'thī mah.
eczema, ěk'ze mǎ, *not* ěk zē'mǎ.
efferens, ěf'fe rens, *not* ěf fē'rens.
elaterin, ě lāt'e rin, *not* ěl a tē'rin.
elephantiasis, ěl e phan tī'a sis, *not* el e phan ti ā'sis.
elytron, ěl'ī trōn, *not* e lī'tron.
embryo, ěm'brī o, *not* em brī'o.
emesis, ěm'e sis, *not* e mē'sis.
emmenagogue, ěm mēn'a gōg, *not* ě mēn'o gawg.
emphysema, ěm fī sē'mah or em fī zē'mah.
empyema, ěm pī ě'mah, *not* em py ě'mi ā.
enchondroma, ěn kōn drō'mah, *not* en kōn'dro mah.
endocarditis, ěn do kār dī'tis, *not* en do kār dē'tis.
enema, ěn'e mǎ, *not* e nē'mǎ.
enteritis, ěn te rī'tis, *not* ěn ter ě'tis.
entozoon, ěn to zō'ōn, *not* ěn tōz'o on.
ephelis, e fē'lis, *not* ěf'e lis.—*Thomas gives latter.*
epiphora, e pīf'o rǎ, *not* ěp i fō'rǎ.

epiploon, e pip'lo on, *not* ep i plō'on.
epizootic, ep i zō òt'ic, *not* ep i zōō'tic.
epulis, e pū'lis, *not* ép'u lis.
ergota, er gō'tä, *not* er'go tä.
erigeron, e rij'e ron, *not* e righ'er on.
errhinum, èr rhī'num, *not* er rhē'num.
erythema, èr i thē'mä, *not* erī thēm'ä.
esoteric, ès o ter'ic, *not* e söt'e ric.
ethyl, èth'il, *not* è'thìl.
eunuchus, ū nū'kus, *not* ū'nōō kus.
eustachian, ū stā'ki an, *not* ū stätch'i an.
exanthema, èx an thē'mä, *not* èx äñ'the mä.
excretory. èx'cre to ry, preferable to ex cre'to ry.

F.

facet, fäs'èt, *not* fā sèt'.
facial, fā'shal, *not* fāsh'al.
faradic, fa rād'ic, *not* fā rā'dic.
farcimen, fär sī'men, *not* fär'si men.
farina, *Lat.* fa rī'nah, *not* fā rē'nah.
fascia, fāsh'i ah, *not* fās'si ah.
febrile, fē'bril or fēb'rìl, *not* fē'brìl.
fetid, fēt'id, *not* fē'tid.
fetor, fē'tor, *not* fēt'or.
filix, fi'lix, *not* fē'lix.
flaccid, flāk'sid, *not* flās'sid.
flatus, flā'tus, *not* flät'us.
fomites, fōm'i tēz, *not* fo mī'tez.
foramen, for ā'men, *not* fo rām'en.
formica, fōr mī'cä, *not* for'mi cä.
fornicis, for'ni cis, *not* for nī'cis.
fourchette, fōōr'shēt', *not* fōōr kēt'.
fraxinus, frax'i nus, *not* frax ī'nus.
fremitus, frēm'i tus, *not* fre mī'tus.
fungi, fūn'jī, *not* fūng'ghī.

G.

- galbanum, gāl'ba num, *not* gal bā'num.
 gamboge, gām bōj', *not* gām'boj.
 gangrene, gāng'grēn, *not* gān grēn'.
 gaseous, gāz'e ūs, *not* gās'se us.
 gastritis, gās trī'tis, *not* gās trē'tis.
 gelsemium, jel sē'mi um, *not* ghel sēm'i um.
 gelsemine, jēl'se mīn, *not* ghel sēm'ēn.
 gemellus, je mēl'lus, *not* ghe mel'lus.
 geranium, je rā'nī um, *not* je rēn'i um.
 gingiva, jīn jī'vā, *not* jīn'ji vā.
 ginglymus, jīng'glī mus, *not* ghīn'gly mus.
 gladiolus, gla dī'o lus, *not* glad i ō'lus.
 glaucoma, glaw cō'mā, *not* glow'co mā.
 glenoid, glē'noid, *not* glēn'oid.
 gluteus, glu tē'us, *not* glōō'te us.
 gomphosis, gōm fō'sis, *not* gōm'fo sis.
 granatum, gra nā'tum, *not* grān'a tum.
 guaiacum, gwī'a cum or gwā'á cum, *not* gwäck'um.
 gutta-percha, gūt'tā-per'tchah, *not* gutta-per'kah.

H.

- hæmatemesis, hēm a tēm'e sis, *not* hem a te mē'sis.
 hæmoptysis, he mōp'tī sis, *not* hē mop tī'sis.
 haloid, hā'loid, *not* hāl'oid.
 helleborus, hēl lēb'o rus, *not* hel le bō'rus.
 heracleum, hēr a clē'um, *not* he rāk'le um.
 hiatus, hī ā'tus, *not* hī'a tus.
 hippocampus, hīp po cām'pus, *not* hī po cām'pus.
 hippocrates, hīp pōc'ra tēz, *not* hī pōc'ra tez.
 hippuris, hīp pū'ric, *not* hīp'pu ric.
 hirsute, hīr'sūt, *not* her sōōt'.
 hirudo, hī rū'dō, *not* hīr'u do.
 homœopathic, hō mē o pāth'ic, *not* hō mē ōp'a thīc.

homœopathy, hō mē ōp'a thy, *not* hō'me o pathy.
hordeolum, hor dē'o lum, *not* hor de ō'lum.
humulus, hū'mū lūs, *not* hūm'ū lūs.
hydatid, hī'da tid or hīd'a tid, *not* hy dāt'id.
hydatis, hīd'a tis, *not* hy dāt'is.
hydromel, hī'dro mel, *not* hy drōm'el.
hydropathy, hy drōp'a thy, *not* hī'dro path y.
hygiene, hī'gī ēn, *not* hī gēn'.
hyoides, hī oi'dēz, *not* hī'oi dēz.
hyoscyamine, hī ōs sī'ā mīn, *not* hy os cī ām'ēn.
hyoscyamus, hī ōs sī'a mus, *not* hy os sy ām'us.
hyperinosis, hī per i nō'sis, *not* hī per in'o sis.
hyphomyces, hī fōm'ī sēz, *not* hī fo mī'sēz.
hypochondriasis, hī po kōn dri'a sis, *not* hy po kōn dri ā'sis.
hypospadias, hī po spā'di as, *not* hī po spād'i as.

I.

iatria, i a trī'ā, *not* i āt'ria.
ichor, ī'kōr, *not* ik'ōr.
ichthyosis, ik thī ō'sis, *not* ik thī'o sis.
icteric, ik tēr'ic, *not* ik'ter ic.
icterus, ik'te rus, *not* ik tēr'rus.
ileus, il'e us, *not* i lē'us.
impetigo, īm pe tī'gō, *not* īm pēt'i go.
impotence, īm'pō tence, *not* īm pō'tence.
infusum, in fū'sum, *not* in fū'zum.
ingluvin, īn'glū vīn, *not* īn glū'vīn.
integral, īn'te grāl, *not* in te'gral.
intertrigo, īn ter trī'go, *not* in ter'trī go.
intestinal, in tēs'ti nal, *not* in tes tī'nal.
intestine, īn tēs'tīn, *not* in tēs'tīn.
intestinum, īn tes tī'num, *not* in tēs'ti num.
inula, īn'ū lah, *not* in ū'la.
iodidum, i ōd'i dum, *not* i o dī'dum.
iodoform, i ōd'o form, *not* i ō'do form.
iodum, i ō'dum, *not* ī'o dum.

- ipecac**, ip'e cāc, *not* ěp'i cāc.
isinglass, ī'zing glās, *not* ī'sin glās.
isomeric, īs o mer'ic, *not* ī sōm'e ric.
isomerism, ī sōm'ēr izm, *not* īs o mē'rizm.

J.

- jaborandi**, zhā bō rān'dē, *not* jāb'o rān'dī.
jalapa, ja lā'pā, *not* jāl'a pā.
jasminum, jās'mī num, *not* jas mī'num.
jaundice, jān'dīs, *not* jawn'dīs.
jejunum, jē jū'num, *not* jēj'ōō num.
juglans, jū'glānz, *not* jūg'lanz.
jugular, jū'gū lar, *not* jūg'ular.
juniperus, jū nīp'e rūs, *not* ju ni pē'rus.

K.

- kamala**, ka mā'lā or kā mā'lā, *not* kā māl'ā.
keloid, kē'loid, *not* kēl'oid.
keratitis, kēr a tī'tis, *not* kēr a tē'tis.
kino, kī'no, *not* kē'no.
kyestein, kī ěs'te in, *not* kī'es tēn.

L.

- lacteal**, lāc'te al, *not* lac tē'al.
lagopus, la gō'pus, lāg'o pus.
lamella, la mēl'lā, *not* lām'el la.
lanthanum, lān'tha num, *not* lān thān'um.
laryngectomy, lār īn jēc'tō my. *not* lar yng ghēc'to my.
laudanum, law'dā num or lōd'a num, *not* lawd'num.
lecethin, lēs'e thīn, *not* le sē'thīn.
legumine, le gū'mīn, *not* lēg'ū mīn.
leuchæmia, lū kē'mi a, *not* lū sē'mi a, unless spelled leucaemia.

- lentigo**, lĕn tĭ'gō, *not* lĕn'ti go.
levator, lĕ vā'tōr, *not* le vāt'or.
lientery, li'ĕn te ry, *not* li ĕn'te ry.
limonis, (*gen.*) li mō'nis, *not* lĭm'o nis.
Linæan, li nĕ'ān, *not* lin'e an.
linea, lĭn'e ah, *not* li nĕ'ah.
liquor, lĭ'kwōr, *not* lik'ōr.
lithotripsy, lith'o trip sĭ, *not* li thōt'rip sy.
lithotrity, li thōt'ri ty, *not* lith'o tri ty.
lobelin, lōb'e lĭn, *not* lo bĕ'lĭn.
lobulus, lōb'ū lūs, *not* lō'bū lus.
lordosis, lōr dō'sis, *not* lōr'do sis.
lumbricus, lūm brĭ'cūs, *not* lūm'bri cus.
luteum, lū'te um, *not* lu tĕ'um.
lupinus, lū pĭ'nus, *not* lōōp'i nus.
lycopodium, li kō pō'di um, *not* lik o pōd'i um.
lycopus, li kō'pus, *not* lik'o pus.
lyra, lĭ'rah, *not* lĭr'ah.
lysis, lĭ'sis, *not* lĭs'is.

M.

- machina**, māk'i nah, *not* mā shĕ'nah.
macula, māk'ū lah, *not* ma kū'lah.
magistery, māj'is te ry, *not* ma jis'te ry.
magistral, māj'is tral, *not* ma jis'tral.
malar, mā'lār, *not* māl'ār.
malleolus, māl lĕ'o lus, *not* mal le ō'lus.
malpighian, māl pĭgh'i an, *not* māl pĭj'i an.
mammillary, mām'mil la ry, *not* ma mĭl'la ry.
manganum, măn'gā num, *not* măn gā'num.
marjoram, mār'jō rām, *not* mār jō'ram.
masseter, mās sĕ'ter, *not* mās'se ter.
mastiche, mās'ti kĕ, *not* mās'ti tchĕ.
mastitis, mās tĭ'tis, *not* mas tĕ'tis.
matico, mā tĭ'kō or mā tĕ'kō, *not* māt'i co.

- matrix**, mā'trix, *not* măt'rix.
maxillary, māk'sil la ry, *not* mak zil'la ry.
meatus, mē ā'tus, *not* me āt'us.
meconin, mēk'o nīn, *not* mē kō'nēn.
mediastinum, me di ās ti'num, *not* me di ās'ti num.
medullary, mēd'ul lā ry, *not* me dūl'la ry.
megrin, mē'grim, *not* mē grim'.
melæna, me lē'nah, *not* mēl'e nah.
mellitus, mēl lī'tus, *not* mēl'li tus.
membrana, mēm brā'nah, *not* mēm'brā nah.
membranous, mēm'bra nous, *not* mem brā'nous.
menstruum, men'strū ūm, *not* mēn'strūm.
mephitic, mē phīt'ic, *not* me phī'tic.
mesmerism, mēz'mer izm, *not* mes'mer ism.
metabolic, mēt a bōl'ic, *not* mē tāb'o lic.
meatbolism, me tāb'o lizm, *not* met a bōl'izm.
metamorphosis, mēt a mōr'fō sis, (English), or metamor-
 fō'sis, (Latin).
methyl, mēth'il, *not* mē'thīl.
metritis, mē trī'tis, *not* mēt rē'tis.
metric, mēt'ric, *not* mē'tric.
mezereum, mēz e rē'um, *not* me zēr'e um.
microscope, mī'krō skōp, *not* mik'rō scōp.
microscopy, mī krōs'ko py, *not* mī'krō skō py.
microsporon, mi krōs'po ron or mī krō spō'ron.
mimosa, mī mō'sah, *not* mīm'o sa.
mistura, mīs tū'rah, *not* mīst'ū ra.
modiolus, mo dī'o lus, *not* mōd i ō'lus.
molecule, mōl'e kūl, *not* mō'le kūl.
molimen, mō lí'men, *not* mōl'i men.
molybdenum, mo lib dē'num, *not* mo lib'de num.
monad, mōn'ad, *not* mō'nad.
monomania, mōn ō mǎ'ni a, *not* mō nō mā'ni a.
morphine, mor'phīn or mor'fēn, *not* mor'fēn'.
morphœa, mor fē'ah, *not* mor'fe ah.
mucilago, mū si lā'go, *not* mu sil'a go.

muscari, mūs kā'rī, *not* mūs'ka ri.
muscarine, mūs'kā rīn, *not* mūs kā'rēn.
musci, mūs'sī, *not* mūs'kī.
myselium, mī sē'li um, *not* mī sē'l'i um.
myoides, mī oi'dēz, *not* mī'oi dēz.
myoma, my ō'mah, *not* mī'o mah.
myrrha, mīr'rhab, *not* mer'rhä.
myxœdema, mīx ē dē'mah, *not* mīx čd'e mah.

N.

nana, nā'nah, *not* nān'ah.
narceina, nār sē ī'nah, *not* nār sī'nah.
nascent, nās'sent, *not* nā'sent.
nates, nā'tēz, *not* nāt'ēz.
nematodes, nēm a tō'dēz, *not* nēm'ā tōds.
nephritis, nē frī'tis, *not* nē frē'tis.
neurasthenia, nūr ās the nī'ah, *not* nūr ās thē'ni ah.
neuroglia, nū rōg'li ah, *not* neu rō glī'ah.—*Thomas gives latter.*
nomenclature, no men'kla tūr, *not* no'men cla ture.
nosology, nō sōl'o gy, *not* no zōl'o gy.
nubile, nū'bil, *not* nōō'bil.
nucha, nū'kah, *not* nōōt'cha.
nucleolus, nū klē'o lus, *not* nū klē ō'lus.
nymphæan, nīm fē'ān, *not* nīm'fe an.
nystagmus, nīs tāg'mus, *not* nī stāg'mus.

O.

obesity, ō bēs'i ty, *not* ō bē'si ty.
obliquus, o blik'wūs, *not* ōb lī'kwus nor ob lē'kwus.
obovate, ōb ō'vāte, *not* ōb'o vāte.
obturator, ōb tū rā'tor, *not* ōb'tū rā't'or.
obverse, ōb'verse, *not* ōb vers'.
ocimum, ō sī'mum, *not* ōs'i mum.

- œdema**, ē dē'mah, *not* ē dēm'ah.
œdematous, ē dēm'a tūs, *not* ē dē'ma tūs.
œstrum, ës'trum, *not* ě'strum.
officina, ōf fi sī'nah, *not* ōf fis'i nah.
officinal, ōf fis'i nal, *not* ōf fi sī'nal.
oleomargarine, ō lē ō mār'gā rin, *not* ō lē ō mār'jā rēn.
oleoresina, ō lē ō re zī'nah, *not* o le o rēz'i nah.
oliva, ō lī'vah, *not* ōl'i vah.
omasum, ō mā'sum, *not* ōm'a sum.
oophorectomy, ō ō fō rēk'tō mī, *not* ōp or ěk'to my.
ophiasis, ō fī'ā sis, *not* ōf i ā'sis.
ophthalmic, ōf thāl'mic, *not* ōp thāl'mic.
opponens, ōp pō'nens, *not* ōp'pō nens.
orchitis, or kī'tis, *not* or kē'tis.
origanum, ō rīg'a num, *not* or ij ā'num.
orthopedic, ōr thō pēd'ic, *not* or thō pē'dic.
oryza, ō rī'zah, *not* or'ī zah.
osmazome, ōs'mā zōme, *not* ōs mā'zome.
osmosis, ōs mō'sis, *not* ōs'mo sis.
osteoid, ōs'tē oīd, *not* ōs'toid.
ovale, ō vā'le, *not* ō vāl'e.
oxalic, ōk sāl'ic, *not* ōk sal ic.
oxalis, ōk'sa lis, *not* ōk sāl'is.
oxide, ōk'sid, *not* ōk'sīd.
oxytocic, ōk sī tōs'ic, *not* oxy tōk'ic nor oxy tōx'ic.
ozæna, ō zē'nah, *not* ō zēn'ah.
ozone, ō'zōn, *not* ō zōn'.

P.

- pacini**, pā tchē'nē, *not* pa sī'nī.
pacinian, pā sīn'ī an, *not* pā tchēn'ī an.
pædiatry, pēd'ī a trī, *not* pē'dī a try.
pædiatrics, pēd'ī āt'riks, *not* pē di āt'riks.
palatine, pāl'a tīn, *not* pāl'ā tīn.
palatum, pa lā'tum, *not* pāl'a tum.
paliative, pāl'ī a tīv, *not* pāl'a tīv.

- palmaris**, pāl mā'ris, *not* pāl'ma ris.
palpebra, pāl'pē brah, *not* pāl pē'brah.
paludal, pa lū'dal, *not* pāl'u dal.
panacea, pān a sē'ah, *not* pa nā'se a.
pancreatin, pān'krē a tīn, *not* pān krē'a tīn.
panis, pā'nīs, *not* pān'īs.
papaver, pā pā'ver, *not* pāp'a ver.
papyrus, pā pī'rus, *not* pāp'y rus.
paracentesis, pār a sen tē'sis, *not* par ā sēn'te sis.
parasitic, pār a sīt'ic, *not* par a sīt'ic.
pareira brava, pā rī'rah brāv'ah, *not* pā rē'rah brāv'a.
parenchyma, pār ěn'kī mah, *not* par ěn kī'mah.
parenchymatous, pār ěn kīm'a tūs, *not* par en kī'ma tūs.
paresis, pār'ē sis, *not* pā rē'sis.
paretic, pā rēt'ic, *not* pā rē'tic.
parietal, pā rī'e tal, *not* pār i ē'tāl.
paronychia, pār o nīk'ī a, *not* par o nitch'ī a.
parotid, pa rōt'id, *not* pā rō'tid.
partridge-berry, pār'tridj-ber'ry, *not* pāt'ridj-ber'ry.
pathogenic, pāth o jēn'ic, *not* pā thōj'e nic.
pathogeny, pā thōj'e ny, *not* path'o gē ny.
pectoral, pēk'tō ral, *not* pēk tō'ral.
pedal, (*adj.*) pē'dal, *not* pēd'al.
peduncle, pē dūnk'le, *not* pē'dunk le.
pellagra, pēl'la grah, *not* pēl lāg'rah.
pemphigus, pēm'fi gus, *not* pem fi'gus.
pepo, pē'pō, *not* pēp'o.
pepsinum, pēp sī'num, *not* pēp'si num.
perinaeum, per i nē'um, *not* pe rin'e um.
peristaltic, per i stāl'tic, *not* per i stawl'tic.
peritonitis, per i tō nī'tis, *not* per i tō nē'tis.
peroneus, per ō nē'ūs, *not* per ō'ne ūs.
petal, pēt'al or pē'tal.
peyer, pī'er, *not* pā'er.
phagedaena, fāj ē dē'nah, *not* fāj e dēn'ah.
phagedenic, fāj e dēn'ic, *not* fāj e dē'nic.

- pharmaceutic**, fār ma sū'tic, *not* fār mā kū'tic.
pharmacopœa, fār ma kō pē'ah, *not* fār mā kō'pe ah.
phenic, fēn'ic, *not* fē'nic.
phrenic, frēn'ic, *not* frē'nic.
phthisis, tī'sis or thī'sis, *not* tē'sis,
phyloxera, fil lōk sē'rah, *not* fil lōk'se rah.
physostigma, fis ō stīg'mah, *not* fī sō stīg'mah.
phytosis, fi tō'sis, *not* fit'o sis.
pilocarpus, pīl o kār'pūs, *not* pī lo kar'pus.
pilula, pīl'ū lah, *not* pī lōō'lah.
pineal, pīn'e al, *not* pī'ne al.
pisiform, pīs'si form or pīz'i form, *not* pē'zi form.
pityriasis, pi tī rī'a sis, *not* pi tī ri ā'sis.
plantago, plān tā'gō, *not* plān'ta go.
platinum, plāt'i num or pla tī'num.
platysma, plā tīs'mah, *not* plāt'is mah.
podagra, pōd'a grah, pō dāg'ra *sometimes given*.
podophylline, pōd ō fil'lin, *not* po dōf'il lēn.
podophyllum, pōd ō fil'lum, *not* pō dōf'il lum.
polygala, pō lig'a lah, *not* pōl i gā'lah.
polygonum, pō lig ō'num, *not* pō ly gō'num.
porrigo, por rī'go, *not* por'rī gō.
posterior, pōs tē'ri or, *not* pōs tē'ri or.
posticus, pōs tī'cus, *not* pōs'ti cus.
posthumous, pōst'hū mūs, *not* pōst hū'mūs.
prepuce, prē'pūs, *not* prēp'ōōs.
preventive, prē vēm'tiv, *not* pre vēm'ta tiv.
process, prō'sēs, *not* prō'sēs.
protean, prō'te an, *not* prō tē'an.
prurigo, prū rī'go, *not* prōōr'i go.
pruritus, prū rī'tus, *not* prōōr'i tus.
psammodes, sām mō'dēz, *not* sām'ō dēz.
pterygium, te rij'ī um, tē rīgh'ī um.
pterygoid, ter'ī goid, *not* ter'ī joid.
ptomaine, tō'mā in, *not* tō'mīn nor to mān'.
puerile, pū'er il, *not* pū'er il.

purpura, pŭr'pŭ rah, *not* pŭr pŭ'rah.
purulent, pŭ'rŭ lent, *not* pŭr'ōō lent.
pygmean, pĭg mē'an, *not* pĭg'me an.
pyriform, pĭr'i form, *not* pĭ'ri form.
pyrethrum, pĭr'e thrum, *not* pĭ rē'thrum.
pyrites, pĭ rĭ'tēz, *not* pĭ'ri tēz.
pyrosis, pĭ rō'sis, *not* pĭr'o sis.
pyrus, pĭ'rus, *not* pĭr'us.

Q.

quadrumana, kwād rōō'ma nā, *not* kwād ru mā'nā.
quassia, kwāsh'i a or kwōsh'i a, *not* kwās si a.
quaternary, kwä'ter na ry, *not* kwä ter'na ry.
quebracho, kā brā tchō, *not* kwē brāk'o.
quinate, kwĭ'nāt, *not* kwĭn'āt.
quinina, kwĭ nĭ'nah, *not* kwĭ nē'nah.
quinine, kwĭ'nĭn, kwĭ'nĭn or kwĭ nĭn', *not* kwĭ nēn'.

R.

rabies, rā'bĭ ēz, *not* rāb'i ēz.
rhachitis, rā kĭ'tis, rā kē'tis.
radix, rā'dix, *not* rād'ix.
rale, rāl, *not* rāl.
raphe, rā'fē, *not* rā fā'.
raspberry, rāz'ber ry, *not* rās'berry nor raws'berry.
reflex, (*noun.*) rē'flēx, *not* rē flex'.
renal, rē'nal, *not* rēn al.
reniform, rēn'i form, *not* rē'ni form.
resina, re zĭ'nah, *not* rēz'i nah.
resorcĭn, rē zōr'sĭn, *not* rēz'or sĭn.
retrahens, rēt'ra hens, *not* rē trā'hens.
rhinoplasty, rĭn'o plās ty, *not* rĭ'no plās ty.
rhizoma, ri zō'mah, *not* rĭz'o mah.
rhoncus, rōng'kŭs, *not* rōn'kŭs.
ricinus, rĭs'i nus, *not* rĭ sĭ'nus.

rigor, rī'gor, *not* rīg'or.
roseola, ro zē'o lah, *not* rō zē ō'lah.
rostellate, rōs'tel lāt, *not* rō stēl'lāt.
rubedo, ru bē'do, *not* rū'be do.
rubeola, ru bē'ō lah, *not* ru bē ō'lah.
rubigo, ru bī'go, *not* rū'bi go.
rugae, ru'jē, *not* rōō'ghē.
rupia, ru'pi ah, *not* ru pī'āh.

S.

sabbatia, sāb bā'shē a, *not* sā bāt'ti a.
saccharum, sāk'kā rum, *not* sāk kā'rum.
sacrum, sāk'krum, *not* sāk'rum.
sagittal, sāj'it tal, *not* sā jīt'tal.
salicylic, sāl i sīl'ic, *not* sāl sīl'ic.
saline, sālīn', *not* sāl'īn nor sāl'ēn.
salivary, sāl'ī vā ry, *not* sālī'va ry.
salix, sāl'ix, *not* sāl'ix.
sambucus, sām bū'cūs, *not* sām'būk ūs.
santalum, sān'tā lum, *not* san tā'lum.
sarcina, sār sī'nah, *not* sār'sī nah.
sativa, sa tī'vah, *not* sāl tē'vah.
saturnine, sāt'ur nīn, *not* sāl tūr'nēn.
satyriasis, sa tī rī'a sis, *not* sāt īr i ā'sis.
saxifraga, sāk sif'rā gah, *not* sāk si frā'gah.
scabies, ska'bī ēz, *not* skāb'ēz.
scalenus, ska lē'nūs, *not* skāl'e nus.
scalpel, skāl'pēl, *not* skāl pēl'.
scarlatina, scār la tī'nah or scār la tē'nah, (Italian).
schindylesis, skīn dī lē'sis, *not* shīn dīl'e sis.
schizomycetes, skīz ō mī sē'tēz, *not* shiz ō mī'sē tes.
scilla, sīl'lah, *not* skīl'lah.
scirrhus, skīr'rūs, *not* shīr'rus.
scybalous, sīb'ā lūs, *not* skīb'a lūs.
secale, sē kāl'ē, *not* sē kāl'e.
sempervirens, sēm per'vī renz, *not* sem per vī'rens.

- senna**, sĕn'nah, *not* sĕ'nah.
sequelæ, sĕ kwĕ'lĕ, *not* sĕk'wĕ lĕ.
sialagogue, sĭ āl'ā gōg, *not* sĕ āl'ō gawg.
sinapis, sĭ nā'pis, *not* sĭn'ā pis.
sinapism, sĭn'ā pizm, *not* sĭ'nā pizm.
solanum, sō lā'num, *not* sōl'ā num.
sorghum, sor'gum, *not* sōr'jum.
spermaceti, sper mā sĕ'ti, *not* sper mā sĕt'i.
sphenoid, sfĕ'noid, *not* sfĕn'oid.
sphygmograph, sfĭg'mō grāf, *not* smĭg'mo grāf.
splenic, splĕn'ic, *not* splĕ'nic.
spongoid, spōng'goid, *not* spūn'joid.
squamous, skwā'mūs, *not* skwām'ūs nor skwā'mus.
static, stāt'ic, *not* stā'tic.
strangury, strāng'gū ry, *not* strān'jū ry.
suberic, sū ber'ic, *not* sūb'a ric.
sublimis, sūb lĭ'mĭs, *not* sūb'li mis.
subsidence, sūb sĭ'dents, *not* sūb'sĭ dents.
succinic, sūk sĭn'ic, *not* sūs'i nic.
succinum, sūk'sĭ num, *not* sūk sĭ'num.
sulphurous, sūl'fū rūs, *not* sūl fū'rūs.
suppurate, sūp'pū rāt, *not* sūp'per āt.
sutura, sū tū'rah, *not* sōōt'u rah.
synechia, sĭn ĕ kĭ'a, *not* sĭn etch'i a.
synizesis, sĭn ĭ zĕ'sis, *not* sĭn ĭz'e sis.
synovitis, sĭn ō vĭ'tis, *not* sĭ nō vĕ'tis.
syphilides, sĭ fil'i dĕz, *not* sĭf'i lĭdz.
syringe, (*noun.*) sĭr'inj, *not* sūr inj'.
syrupus, sĭ rū'pūs, *not* sur'ū pus.
systema, sĭs tĕ'mah, *not* sĭs'te mah.
systemic, sĭs tĕm'ic, *not* sĭs tĕ'mic.
systole, sĭs'tō lĕ, *not* sĭs'tōl.

T.

- tabacum**, to bā'kum, *not* tāb'a kum.
tabes, tā'bĕz, *not* tāb'ĕz.

- tartaric**, tār tār'ic, *not* tār tār'ic.
taurin, taw'rīn, *not* tow'rīn.
telluric, tel lū'ric, *not* tēl'lu ric.
terebinthina, ter e bin'thī nah, *not* ter e bin thī'nah.
tetanic, te tăn'ic, *not* tēt'ā nic.
tetanoid, tēt'a noid, *not* te tăn'oid.
tetrad, tēt'rād, *not* tē'trad.
thalamus, thāl'a mus, *not* tha lā'mus.
thyme, tīm, *not* thīm.
thymus, thī'mūs, *not* tī'mūs.
tinctura, tīnk tū'rah, *not* tīnk'tōō rah.
tinea, tīn'e ah, *not* tīn ē'a.
tinnitus, tīn nī'tus, *not* tīn'ni tus.
thracelo-mastoid, trā kē'lo-mās'toid, *not* trāk'ē lō-mās'toid.
trachoma, tra kō'mah, *not* trāk'ō mah.
tragacanth, trāg'a kanth, *not* trāj'i canth.
tremor, trē'mor, *not* trēm'or.
trichiasis, tri kī'a sis, *not* trīk i ā'sis.
trichina, trī kī'nah, *not* trī kē'nah.
tricolor, trīk'ō lor, *not* trī'kō lor.
trigone, trīgōn or trē'gōn, (French), *not* trī'gawn.
tripartite, trī'pār tit, *not* trī pār'tit.
triquetra, trī kwē'trah, *not* trīk'ē trah.
troche, trō'kē, *not* trō'tchee nor trōtch.
trochisci, trō kīs'sī, *not* trō kis'kī.
trochlea, trōk'lē ah, *not* trō'kle ah.
turpethum, tūr'pē thum, *not* tūr pē'thum.
tympanum, tīm'pa num, *not* tīm pān'um.
tyrosin, tīr'ō sīn, *not* tī'rō sīn.
tyrotoxicon, tīr ō tōk'sī kon, *not* tī rō tōk'si kon.

U.

- umbellate**, ūm'bēl lāt, *not* ūm bēl'lāt.
umbilicus, ūm bī lī'cus, *not* ūm bīl'i cus.—*Webster gives latter.*
unguentum, ūng gwēn'tum, *not* ūn gwēn'tum.

inguinal, úng'gwī nal, *not* ún gwē'nal.
urachus, ū'rā kūs, *not* ū rāk'ūs.
uræmic, ūr rēm'ic, *not* ū ré'mic.
uredo, ū rē'do, *not* ū're dō.
ureter, ū rē'ter, preferable to ū're ter.
urethra, ū rē'thra, *not* ū're thra.
urtica, ūr tī'cah, *not* ūr'ti can.
ustilago, ūs tī lā'go, *not* ūs til'a go.
uterine, ū'ter in, *not* ū'ter in.

V.

vaccina, vāk sī'nah, *not* vāk'sī nah.
vagina, va jí'nah, *not* vāj'i nah.
vaginal, vāj'i nal, *not* vā jí'nal.
variola, vā rī'ō lah, *not* vār i ō'lah.
varioloid, vār'i ō loid, *not* vār i ō loid'.
vena, vē'nah, *not* vā'nah.
venereal, ve nē're al, *not* vēn'é ral.
veratrum, vē rá'trum, *not* vē rāt'rum.
veronica, vē rō ní'cah, preferable to ve rōn'í cah.
vertebral, ver'te bral, *not* ver.tē'bral.
verruca, ver rū'kah, *not* vē rŭk'kah.
versicolor, vers'ik'o lor, *not* ver'si cō lor.
verumontanum, vē ru mōn tā'num, *not* vē ru mōn'ta num.
vesica, vē sī'kah, *not* vēs'i kah.
vesical, vēs'i cāl, *not* vē sī'cal.
vesicle, vēs'i kl, *not* vē'si kl.
veterinary, vē't'er i nā ry, *not* vē ter'i na ry.
vibriones, vib ri ō'nēz, *not* vī'bri ō nez.
vieussens, vē'ūs'sōng', *not* vī ūs'énz.
viola, vī'ō lah, *not* vi ō'la.
vitelline, vī tēl'lin, *not* vīt'el lēn.
vomit, vōm'i tūs, *not* vo mī'tus.
vulgaris, vŭl gā'ris, *not* vŭl gār'is.

W. X. Y. Z.

wintera, win tē'rah, *not* win'tērah.

xiphoid, zif'oid, *not* zī'foïd.

yolk, yōlk, *not* yēlk.

zoology, zō ōl'ō jy, *not* zōō ōl'ō jy.

zygoma, zy gō'mah, *not* zig'ō mah.

zygomatic, zig ō māt'ic.

CHAPTER IV.

PARTS OF SPEECH AND DECLENSION ENDINGS.

THERE are eight parts of speech in Latin, four of which, *nouns, adjectives, pronouns* and *verbs*, are inflected, while the other four, *adverbs, prepositions, conjunctions* and *interjections*, remain unchanged.

By *inflection* we mean the change of form which words undergo to denote their relation to other words. These changes are much more numerous and complicated in Latin and Greek than in English, and great care must be taken to learn them accurately. In English the meaning of a sentence depends largely upon the arrangement of the words. This, however, is not the case with inflectional languages, for in these nearly all relations are expressed by inflections or terminations; thus, *Josephus os cani dat*, may be translated, "Joseph a bone to the dog gives;" *Josepho os cani datur*, "By Joseph a bone to the dog is given."

This latter sentence might also have the words arranged in any other order, but the usual method is to place the subject first, the object second, and the predicate last.

1. That variety of inflection which nouns, adjectives and participles undergo is called *declension*. By declension we express the gender, number and case of words.

2. There are three genders in Latin as in English, the masculine, feminine and neuter, but these have little to do with sex, as we understand it. The ancients believed sex to be an inherent quality in all objects, as at a later period we found the alchemists believing that metals were of various sexes.

3. *Number.* There are two numbers in Latin as in English.

4. *Cases.* There are six cases in Latin, viz.:—

(a) The *nominative*, used as in English.

(b) The *genitive*, denoting origin, possession or partition.

(c) The *dative*, denoting that to or for which a thing is done.

(d) The *accusative*, almost equivalent to the English objective.

(e) The *vocative*, used in addressing persons or things.

(f) The *ablative*, denoting the relation expressed in English by *from, with, by, or in.*

In the following sentence all the cases will be found: *Josephæ (voc.), det Henricus (nom.) os (accusative) ovīs (gen.) canī (dat.) sylva (abl.)*, Joseph (*voc.*) let Henry (*nom.*) give a bone (*acc.*) of a sheep (*gen.*) to the dog (*dat.*) from the woods (*abl.*)

There are five declensions in Latin, distinguished by the endings of the genitive singular. The following table contains nearly all the case endings arranged according to declensions.

SINGULAR.

DECLENSIONS.	I.	II.	III.	IV.	V.
CASE.					
Nominative.	a (e)	us, es, um	es, is, or, etc.	us, u	es
Genitive	æ	i	is	us	ei
Dative	æ	ō	i	ūi, u	ei
Accusative..	am	um	em, im, etc.	um, u	em
Vocative . . .	a	ē, um	like Nom.	us, u	es
Ablative	ā	ō	e or i	u	e

PLURAL.

DECLENSIONS.	I.	II.	III.	IV.	V.
CASE.					
Nominative.	æ	i, a	es, a	us, ūa	es
Genitive	a'rum	ō'rum	um, ium	ūum	e'rum
Dative	is	is	ibus	ibus, ūbus	e'bus
Accusative . . .	as	os, a	es, a	us, ūa	es
Vocative	æ	i, a	es, a	us, ūa	es
Ablative	is	is	ibus	ibus, ūbus	e'bus

CHAPTER V.

THE FIRST DECLENSION.

NOUNS of the first declension usually end in *a*. They are all feminine except such as denote males.

Costa, a rib, is declined as follows:—

	SINGULAR.	PLURAL.
<i>Nom.</i>	cost a, a rib	cost ae, ribs
<i>Gen.</i>	cost ae, of a rib	cost a'rum, of ribs
<i>Dat.</i>	cost ae, to or for a rib	cost is, to or for ribs
<i>Acc.</i>	cost am, a rib	cost as, ribs
<i>Voc.</i>	cost a, O rib	cost ae, O ribs
<i>Abl.</i>	cost a, by, with, or from a rib	cost is, by, with, or from ribs

VOCABULARY I.

aca'cia, æ (fr. Greek ἀκί', a prickle) acacia.

ala, æ (contraction of *avilla*) a wing, side.

an'ima, æ (fr. ἄνεμος, the wind) air, vital principle.

angi'na, æ (fr. *ango*, Greek ἀγγίω, to strangle) sore throat, quinsy.

aura, æ (cf. Greek αὔω, to blow) a break of air, premonition.

auric'ula, æ (dim. of *auris*, an ear) a small ear, auricle.

bacca, ω (————) a berry.

bull'a, æ (fr. *bullio*, to boil) a bubble, a lump, ball.

bursa, æ (fr. Greek βύρσα, the hide of an ox, βούς) a leather pouch, a purse.

braye'ra, æ (fr. Dr. Brayer, a French botanist) kooso.

bryo'nia, æ (fr. βρόω, to grow luxuriantly) bryony.

- cor'na**, æ (fr. Greek *κορώνη*, a garland) a crown.
chimaph'ila, æ (fr. Greek *χειμα*, winter, and *φιλέω*, to love) pipsissewa.
cor'nea, æ (fr. *cornu*, a horn) the cornea.
fari'na æ (fr. *far*, a kind of grain) meal, flour.
fas'cia, æ (cf. *fascis*, a bundle) a bandage, a fibrous membrane.
fib'ula, æ (cf. *fibulo*, to clasp) a buckle tongue, a brace, fibula, also an instrument used by the Romans for stitching the *labia majora*, or the prepuce in the male, to prevent copulation.
fis'tula, æ (cf. *fistuca*, a rammer) a pipe, tube, fistula.
fossa, æ (fr. *fodio*, to dig) a ditch, trench, groove.
gemma, æ (cf. Greek *γέμω*, to swell up) a bud.
gutta, æ (perhaps allied to *gusto*, to taste) a drop.
althæ'a, æ (Greek *ἄλθω*, to heal) marsh mallow.
amen'tia, æ (*a* without, *mens*, mind) total loss of mind.
ampul'la, æ (*ambi*, about *olla*, a pot) a two handled jug or jar.
angustu'ra, æ (*Angostura*, a town in Venezuela) a bitter plant.
anten'na, æ (fr. *ante*, before, and *teneo*, to hold, lit. a yard-arm or end rope) the "feelers" of insects.
aqua, æ (cf. *equalis*, level) water.
ar'nica, æ (fr. Greek *ἄρσις*, a lamb, fr. the soft leaf) arnica.
artemis'ia, æ (fr. *Artemis*, Greek *Ἄρτεμις*, Diana) a plant.
ave'na, æ (*a*, without, *vena*, vein) oats.
cap'sula, æ (dim. of *capsa*, a box) small box, capsule.
cera, æ (Greek *κηρός*, wax) bleached wax.
char'tula, æ (dim. of *charta*, a parchment) a powder paper.
cimicif'uga, æ (fr. *cimex*, a bug, and *fugo*, to put to flight) black-snake root.
chorda, æ (*χορδή*, a cord made of intestine) a cord.
 et, and.

EXERCISE I.

A 1. Guttæ aquæ. 2. Fistula corneæ. 3. Gemmæ et baccae. 4. Aqua ammoniæ. 5. Fossæ costarum. 6. Corona et alæ. 7. Aura epilepsiae. 8. Bullæ et bursa. 9. Farina avenæ. 10. Ampulla aquæ.

B 1. The bandage of the brace (bone). 2. Buds of acacia. 3. Capsules of wax. 4. Althæa and powder papers. 5. Cords and sail ropes. 6. Chalk and water. 7. The crown of the cornea. 8. Angustura berries. 9. Sore throat and cholera. 10. A (leather bag) of water.

GREEK NOUNS OF THE FIRST DECLENSION.

A number of Greek words have been taken without much alteration into the Latin language and their declension varies from that of pure Latin nouns.

The majority of these Greek nouns end in *e* but there are a few in *es*. Those ending in *e* are feminine, the others are masculine.

Phleg'mone, from $\varphi\lambda\acute{\epsilon}\gamma\omega$ to burn or inflame, an inflammation of cellular tissue, is declined as follows:—

	SINGULAR.	PLURAL.
<i>Nom.</i>	phleg'mone	phleg'monæ
<i>Gen.</i>	phleg'mones	phlegmona'rum
<i>Dat.</i>	phleg'monæ	phleg'monis
<i>Acc.</i>	phleg'monen	phleg'monas
<i>Voc.</i>	phleg'mone	phleg'monæ
<i>Abl.</i>	phleg'mone	phleg'monis

In the same manner are declined all nouns ending in *cele* and such words as the following:—

acne, (supposed to a modification $\acute{\alpha}\chi\mu\acute{\iota}$, *acmic*, the prime of life, because it affects those in the bloom of youth) an eruptive skin disease.

aga've, (fr. $\acute{\alpha}\gamma\alpha\mu\alpha\iota$, to wonder at) the century plant.

- al'oe**, (fr. ἀλόω, to trample under foot) aloes.
anem'one, (fr. ἄνεμος, the wind) wind flower.
argem'one, (fr. ἄργεμον, an eye disease) thorn poppy.
daphne, (fr. Δάφνη, a river nymph changed into a bay tree) a kind of laurel.
mas'tiche, (Greek μαστίχη, fr. μιστάζω, to chew) a plant with sialagogue properties.
stat'ice, (fr. ἴσχυμι, to staunch) named from its astringent properties.

The Greek nouns of the first declension ending in *es* are, as a rule, declined only in the singular. *Pyri'tes* (fr. πῦρ, fire, and λίθος, stone), will serve as an example:—

<i>Nom.</i>	pyri'tes
<i>Gen.</i>	pyri'tae
<i>Dat.</i>	pyri'tae
<i>Acc.</i>	pyri'ten
<i>Voc.</i>	pyri'te or a
<i>Abl.</i>	pyri'ta or e

VOCABULARY II.

- calen'dula**, æ (καλένδα, a calender, from the numerous leaves), marigold.
drach'ma, æ (Greek δραχμή, a coin), a drachm.
dulcama'ra, æ (*dulcis*, sweet; *amarus*, bitter), bittersweet.
essen'tia, æ (*ex*, out of; *ens*, participle of *esse*, to be) essence.
forma, æ (allied to μορφή, form), a shape, form.
form'ula, æ (dim. of *forma*), a small form; a set rule.
fran'gula, æ (fr. *frango*, to break), buckthorn.
galla, æ (*Gallia*), oak apple; gall nut.
gaulthe'ria, æ (fr. name of Dr. Gauthier), wintergreen.
gena, æ (cf. Greek γένυς, cheek bone), the cheek.
glan'dula, æ (dim. of *glans*, a gland), a small gland.
hora, æ (Greek ὥρα, an hour), an hour.

- ichthyocol'la, æ (fr. Greek ἰχθύς, a fish, and κόλλα, glue),
isinglass.
- iner'tia, æ (*in*, without; *ars*, art, activity), inactivity.
- in'ula, æ (corruption of *Helvium*, fr. Helen of Troy),
elecampane.
- lach'ryma, æ (cf. δάκρυ, a tear), a tear.
- lacu'na, æ (fr. *lacus*, a lake), a small cavity in osseous
tissue.
- lam'ina, æ (fr. same root as ἐλάωνω, to drive) a plate or
layer.
- lappa, æ (*lappa*, a clibbur), burdock.
- libra, æ (cf. Greek λίτρα, a coin), a balance, a pound.
- leptan'dra, æ (fr. λεπτός, slender, and ἀντήρ, stamen), Cul-
ver's root.
- lin'ea, æ (cf. *linum*, flax fibre), a line.
- lingua, æ (onomatopœic, fr. licking sound), the tongue.
- lobe'lia, æ (fr. Lobel, a Flemish botanist), Indian tobacco.
- lupuli'na, æ (fr. *lupulus*, lit. a small wolf; a name for
hops), pollen from hops.
- lymp'ha, æ (lit. pure water), lymph.
- mac'ula, æ (dim. fr. same root as μάχομαι, to fight), small
spot on skin.
- mamma, æ (Greek μᾶμμα, breast), breast.
- massa, æ (cf. Greek μᾶζα, a lump of dough), a mass.
- mate'ria, æ (fr. *mater*, a producer), that which is pro-
duced; matter.
- maxil'la, æ (augmented fr. *mala*, cheek bone), jaw bone.
- mamil'la, æ (dim. of *mamma*, the breast), the nipple.
- maran'ta, æ (named in honor of *Maranti*, a Venetian
botanist), arrow-root.
- medici'na, æ (fr. *medeor*, to heal), the art of healing; a
medicine.
- medul'la, æ (fr. *medius*, middle, centre), the marrow.
- membra'na, æ (fr. *membrum*, a member), a membrane.

mentha, æ (Greek *μίνθη*, mint), mint.

mica, æ (fr. *mico*, to sparkle like the notes in a sunbeam),
particle; a crumb.

mistu'ra, æ (fr. *misceo*, to mix), a mixture.

mor'rhua, æ (fr. *μῶρος*, stupid), codfish.

mu'cuna, æ (fr. *mucus*), cowhage.

est, is.

sunt, are.

EXERCISE II.

A. 1. Lacunae et medulla. 2. Libra aloes. 3. Mistura cretae. 4. Laminae fibulae. 5. Massa cerae. 6. Mistura marantae et menthae. 7. Lappa est medicina anginae. 8. Lympha et lachrymae. 9. Mistura mastiches et myrrhae. 10. Micac et galla. 11. Medulla fibulae.

B. 1. Masses, crumbs and mixtures. 2. The spots of the tongue. 3. The line of the fibula. 4. The wing of the balance. 5. The spots on the cheek in acne. 6. The lacunae of the jaw-bone.

CHAPTER VI.

THE SECOND DECLENSION.

NOUNS of the second declension end in *us*, *um*, *ir*, *er*, *os* and *on*. Those ending in *um* and *on* are neuter, the others are masculine. The great majority of the nouns of this declension used in medical works end in *us* or *um*. Those ending in *os* and *on* are of Greek origin.

Digitus, a word kindred with $\delta\epsilon\acute{\iota}\kappa\nu\omicron\mu$, to point, like *indico*, is declined as follows:—

SINGULAR.	PLURAL.
<i>Nom.</i> dig'it us, a finger	dig'it i, fingers
<i>Gen.</i> dig'it i, of a finger	dig'it o'rum, of fingers
<i>Dat.</i> dig'it o, to or for a finger	dig'it is, to or for fingers
<i>Acc.</i> dig'it um, a finger	dig'it os, fingers
<i>Voc.</i> dig'it e, O finger	dig'it i, O fingers
<i>Abl.</i> dig'it o, by, with, or from a finger	dig'it is, by, with or from fingers

Folium, from the same root as $\phi\acute{\omicron}\lambda\lambda\omicron\nu$, a leaf, is declined as follows:—

SINGULAR.	PLURAL.
<i>Nom.</i> fo'li um, a leaf	fo'li a, leaves
<i>Gen.</i> fo'li i, of a leaf	fo'li o'rum, of leaves
<i>Dat.</i> fo'li o, to or for a leaf	fo'li is, to or for leaves
<i>Acc.</i> fo'li um, a leaf	fo'li a, leaves
<i>Voc.</i> fo'li um, O leaf	fo'li a, O leaves
<i>Abl.</i> fo'li o, by, with, or from a leaf	fo'li is, by, with, or from leaves

VOCABULARY III.

- ac'inus**, i (Greek *ἀκνος*, a grape), a granule; kernel; part of a gland.
- alve'olus**, i (dim. of *alvus*, the belly), a little belly, cavity, socket.
- an'imus**, i (*ἄνεμος*, the wind), the mind, soul.
- an'nulus**, i (dim. of *annus*, a circle, a ring), a little ring.
- anus**, i (fr. *annus*, a ring; cf. *ἀμφί*, around), orifice of rectum.
- bacil'lus**, i (dim. of *baculum*, a staff), a little rod; rod-like bacterium.
- bolus**, i (Greek *βῶλος*, a clod), a lump, mouthful, large pill.
- bulbus**, i (Greek *βολβός*, an onion), a bulb.
- cal'amus**, i (Arabic *kalam*, a reed), a writing pen.
- cal'culus**, i (dim. of *calx*, a lump of lime), a pebble, a stone.
- capil'lus**, i (cf. *caput*, the head), a hair of the head.
- carpus**, i (fr. *carpo*, to pluck), the wrist.
- caryophyl'lus**, i (*κάρφον*, walnut; *φύλλον*, leaf), clove tree.
- clavus**, i (cf. *clavis*, a bolt or key), a nail; a corn; sick headache.
- con'gius**, i (cognate with *κογχή*, a shell), a gallon.
- morbis**, i (allied to *morior*, to die), a disease.
- natu'ra**, æ (fr. *nascor*, to be born), that which will produce, nature.
- neb'ula**, æ (dim. of *nubes*, a cloud), a haze.
- nympha**, æ (Greek *νυμφή*, a nymph or bride), a nymph;
labium minus.
- ret'ina**, æ (fr. *rete*, a net), belonging to a net; retina.
- offici'na**, æ (fr. *opifex*, doing work), a work-shop, drug-store.
- oleoresi'na**, æ (*oleum*, oil; *resina*, resin), oleo-resin.
- or'bita**, æ (fr. *orbis*, a circle, orb), the orbit, eye-socket.

in, in.

a, ab, from.

EXERCISE III.

A. 1. Bacilli morbi. 2. Acini glandulae. 3. Fistula in ano. 4. Sunt alveoli in maxilla. 5. Folia caryophylli. 6. Congius aquae menthae. 7. Nebula corneae. 8. In officina sunt oleo-resinae et misturae. 9. Calculi in orbita. 10. Clavus digitorum.

B. In the apothecary shop are mixtures and a gallon of rose water. 2. The sockets of the jaw-bones. 3. A ball of arrow-root. 4. Sick headache is a disease. 5. In the orbit there are an artery and a network. 6. The little ring of the cornea. 7. In the retina are small rods. 8. The membrane of the nipple. 9. In the breast are kernels (acini). 10. A pound of cloves.

There are a few nouns of the second declension ending in *er*. *Cancer* (cognate with *χάρακνος*, a crab) a crab, or cancer, is declined as follows:—

	SINGULAR.	PLURAL.
<i>Nom.</i>	canc er, a cancer	canc ri, cancers
<i>Gen.</i>	canc ri	canc ro'rum
<i>Dat.</i>	canc ro	canc ris
<i>Acc.</i>	canc rum	canc ros
<i>Voc.</i>	canc er	canc ri
<i>Abl.</i>	canc ro	canc ris

VOCABULARY IV.

liber, *bri*, the bark of a tree; a book; cf. A. S. *boec*, beach.
puer, *pu'eri* (cf. Greek *παῖς*, a boy) a boy.
puel'la æ (dim. fem. of *puer*) a girl.
vir, *vir*i (cf. *vis*, strength) a male; man.
pupil'la, æ (dim. of *pupa*, a doll) the pupil.
palma, æ (Greek *παλάμη*, palm) palm of hand or sole.
patel'la, æ (dim. of *patina*, a pan) the knee-pan.
phytolac'ca, æ (Greek *φύτον*, plant, and *λάκκος*, pond)
 poke plant.

- pil'ula**, æ (dim. of *pila*, a ball) a little ball; a pill.
planta, æ (cognate with *πλατῦς*, flat) a plant; the sole of the foot.
porta, æ (cf. *porto*, to carry) the place through which things are carried; a gate.
ran'ula, æ (dim. of *rana*, a frog) tumor of salivary gland.
resi'na, æ (cf. *ῥητίνα*, a gum) resin.
rose'ola, æ (dim. of *rosa*, a rose) rose rash.
rube'ola, æ (dim. of *rubet*, red) measles.
fascic'ulus, i (dim. of *fascis*, a bundle) a little bundle.
focus, i (fr. an old root, *fo*; cf. *foveo*, to boil) a fire-place.
fundus, i (*fundo*, to found) the bottom; lowest part.
funic'ulus, i (dim. of *funis*, a rope) a string; umbilical cord.
gladi'olus, i (dim. of *gladius*, a sword) a part of sternum.
globus, i (like *glomus*, a ball) a ball; a globe.
cer'ebrium, i (cf. *κέφα*, the head) the greater brain.
habet, has. **habent**, have.

EXERCISE IV.

A. 1. Pilulae aloes et mastiches. 2. Plantae pueri et viri. 3. Cancer mammae est morbus feminarum. 4. Rubeola et roseola morbi sunt. 5. Quinina medicina anginae est. 6. Liber medici est in officina. 7. Eucalyptus est malariae medicina. 8. Libra foliorum phytolaccae. 9. Femina neuralgiam orbitae habet. 10. Viri gladiolos habent.

B. 1. A little bundle of small rods. 2. Cancer of the brain is a disease. 3. The physician (medicus) has pills of aloes and myrrh. 4. The boys and girls have measles. 5. The books of the men are in the office. 6. Pepsin is a medicine for dyspepsia. 7. In the *conjunctiva* is the gate of tears. 8. Ranula in the cheek (*mala*) of the girl. 9. Rose rash is a disease. 10. The woman has the hysterical (*hystericum*) globe.

GREEK NOUNS OF THE SECOND DECLENSION.

A few nouns of Greek origin ending in *os* are found in medical works, used only in the singular. The word *asbes'tos*, from *ἀ*, intensive, *σβέννυμι*, to quench, because it will not burn, is declined as follows:—

<i>Nom.</i>	asbes'tos
<i>Gen.</i>	asbes'ti
<i>Dat.</i>	asbes'to
<i>Acc.</i>	asbes'ton
<i>Voc.</i>	asbes'te
<i>Abl.</i>	asbes'to

A much larger number end in *on*, such as those derived from *φυτόν* (*phyton*), a plant, *ζῷον* (*zoon*), an animal, *δένδρον* (*dendron*), a tree, and *σπόρον* (*sporon*), a spore.

Ganglion (Greek *γάγγλιον*, a knot, a tumor) is thus declined:—

	SINGULAR.	PLURAL.
<i>Nom.</i>	gang'lion	gang'lia
<i>Gen.</i>	gang'lii	ganglio'rum
<i>Dat.</i>	gang'lio	gang'liis
<i>Acc.</i>	gang'lion	gang'lia
<i>Voc.</i>	gang'lion	gang'lia
<i>Abl.</i>	gang'lio	gang'liis

VOCABULARY V.

am'nion, or *am'nios*, *i* (fr. Greek *ἀμνός*, a lamb, from its softness) a fœtal membrane.

cho'rium, *i* (Greek *χορίον*, leather) a tough fœtal membrane.

epip'loon, *i* (Greek *ἐπί*, upon, *πλέω*, to fold) omentum.

hæmatox'ylon, *i* (Greek *αἷμα*, blood, and *ξύλον*, wood) logwood.

hydrozo'on, *i* (Greek *ὑδωρ*, water, *ζῷον*, animal) water animalcule.

- lirioden'dron, i (Greek *λίριον*, a lily, *δένδρον*, tree) tulip tree.
- olec'ranon, i (Greek *ὠλένη*, elbow, and *κράνον*, head) head of ulna.
- pleuron, i (Greek *πλευρόν*, the side) the serous covering of the lungs.
- micros'poron, i (Greek *μικρός*, small, *σπορός*, a spore) a microscopic spore.
- sali'va, æ (cf Greek *σίαλον*, spittle) spittle.
- scap'ula, æ (cf. Greek *σάφος*, skiff) shoulder blade.
- scarlati'na, æ (fr. Italian *scarlatta*, scarlet) scarlet fever.
- scilla, æ (Greek *σίλλα*, an onion) squill.
- serpenta'ria, æ (fr. *serpo*, to creep) Virginia snake-root.
- scutella'ria, æ (dim. of *scutum*, a shield) skull cap.
- spige'lia, æ (fr. Spigelius, the Dutch anatomist) pink root.
- spina, æ (contraction of *spicna*, a point) a thorn, spine.
- stria, æ (fr. *strio*, to groove) a groove, colored line.
- sutu'ra, æ (fr. *suo*, to sew) a seam, suture.
- hu'mulus, i (fr. *humus*, the ground) hop plant.
- lob'ulus, i (dim. of *lobus*, a lobe) a small lobe, lobule.
- locus, i (originally *stlocus*, cogn. w. *στέλλω*, to send) a place.
- mal'leus, i (cf. Sansk. *mah*, to strike) a hammer; a bone of the ear.
- malle'olus, i (dim. of *malleus*) a small hammer, ankle tuberosities.
- mus'culus, i (dim. of *mus*, a mouse, or Greek *μῦς*, a muscle) a muscle.
- nævus, i (contraction of *nativus*, fr. *nascor*, to be born) a birth-mark.
- nanus, i (Greek *νᾶνος*, a pigmy) a dwarf.
- nervus, i (fr. same root as *νεῦρον*) a nerve.
- nodus, i (fr. *gnodus*, a knot) a knot, node.
- nu'cleus, i (dim. of *nux*, a nut) a kernel.

- nucle'olus, i (dim. of *nucleus*) primary nucleus.
 pilocar'pus, i (*pila*, ball, *carpus*, fruit) jaborandi.
 ruga, æ (fr. Aryan root *rag*, rough) a wrinkle.
 ruta, æ Greek *ῥοτὴ*, rue) rue.
 sabba'tia, æ (fr. Sabbati, an Italian botanist) sabbatia.
 sabi'na, æ (fr. a town in ancient Italy; a Sabine woman)
 savine.
 salici'na, æ (fr. *salix*, a willow) alkaloid from willow.
 sanguina'ria, æ (fr. *sanguis*, blood, from color of juice)
 bloodroot.
 sen'ega, æ (fr. Indian *Sencka*) corrupted into *snake* root.
 sil'ica, æ (fr. *silix*, flint) oxide of silicon.

non, not.

EXERCISE V.

A. 1. Musculi strias habent. 2. Scapula fossam habet. 3. Scrofula est morbus puerorum. 4. Corona spinarum. 5. Nervi ganglia habent. 6. Scilla medicina morbis est pleuri. 7. Amnion et chorion sunt membranae. Icterus et scarlatina morbi sunt. 9. Cerebrum lobos habet. 10. Hydrozoa non plantae sunt.

B. 1. The physician gives pills of salicin to the boy. 2. Nerves have ganglia but not furrows. 3. Men have muscles, nerves, and arteries. 4. Chalk mixture is a medicine for diarrhœa. 5. Pills of sanguinaria and ammonia for disease of the pleura. 6. Silica is not a medicine. 7. The women have savine and ergot. 8. Glands have nuclei. 9. The nodes of the nerves. 10. The dwarf has a birth-mark.

CHAPTER VII.

THE THIRD DECLENSION.

NOUNS of the third declension have various endings in the nominative singular but the genitive singular always ends in *is*; sometimes with an increment (*i. e.* additional syllable) and *is*, sometimes by the addition of *is* to the nominative singular, and sometimes, when the nominative singular ends in *is*, the word is not changed in the genitive. *Metus*, fear, for example, forms the genitive singular *metoris*; the *or* being the increment and *is* the termination. *Tremor*, trembling, simply adds *is*, while *classis*, a class or fleet, remains unchanged.

The student must commit to memory the termination of the genitive singular and the gender of all words of this declension.

Arbor, a tree, is declined as follows:—

	SINGULAR.	PLURAL.
<i>Nom.</i>	arbor (m)	arb'ores
<i>Gen.</i>	arb'oris	arb'orum
<i>Dat.</i>	arb'ori	arbor'ibus
<i>Acc.</i>	arb'orem	arb'ores
<i>Voc.</i>	arbor	arb'ores
<i>Abl.</i>	arb'ore	arbor'ibus

Nouns of the third declension ending in *or* are usually of the masculine gender. The words in the following vocabulary are declined like *arbor*.

VOCABULARY VI.

- abduc'tor**, ó'ris (m) (from *ab*, away, *duco*, to lead) an abductor.
- aer**, a'eris (m) (Greek *ἀήρ*, air) air.
- anser**, an'seris (m) (allied to *ansa*, a handle, fr. long neck) a goose.
- æther**, æth'eris (Greek *αἰθήρ*, ether) ether.
- ardor**, ó'ris (*ardco*, to burn with zeal) a burning.
- calor**, ó'ris (*calco*, to be warm) heat.
- climac'ter**, é'ris (Greek *κλιμακτήρ*, a round of a ladder) a critical period.
- croton**, ó'nis (Gk. *κροτών*, dog tick) palma Christi plant.
- dila'tor**, ó'ris (*dis*, apart, *fero*, to bear) dilator.
- erec'tor**, ó'ris (fr. *erigo*, to stand up) erector.
- exten'sor**, ó'ris (*ex*, out, and *tendo*, to stretch) extensor.
- flexor**, ó'ris (*fligo*, to bend) bender.
- fluor**, ó'ris (*fluo*, to flow) a flowing.
- furfur**, fur'furis (reduplication of *far*, a cereal) bran.
- humor**, ó'ris (cf. *γυμός*, a liquid) a moisture, humor.
- labor**, ó'ris (cf. *labor*, to slip) labor, parturition.
- leva'tor** ó'ris (fr. *levo*, to lift) a lifter.
- lichen**, é'nis (Greek *λεϊχήν*), a cryptogamous plant.
- limon**, ó'nis (from Portuguese town Limoa or Persian *limun*) lemon.
- liquor**, ó'ris (fr. *liquco*, to be fluid) fluidity; liquid, solution.
- motor**, ó'ris (fr. *movco*, to move) mover.
- prona'tor**, ó'ris (from *prono*, to bend forward) a bender forward.
- ren**, is (cf. *φρήν*, the diaphragm) the reins, kidneys.
- rigor**, ó'ris (fr. *rigco*, to be numb) a chill.
- rota'tor**, ó'ris (fr. *roto*, to turn) roller.
- rubor**, ó'ris (fr. *rubus*, red) redness, blushing.
- sal**, is (cf. Greek *ἅλς*, salt) salt.
- sopor**, ó'ris (cf. Greek *ὄπός*, juice) sleep.

- sphincter**, *éris* (Greek *σφίγγω*, to squeeze) contractor.
stertor, *óris* (onomatopœic) snoring.
stupor, *óris* (fr. *stupreo*; cf. *τύπτω*, to strike senseless) insensibility.
sudor, *óris* (fr. *sudo*, to sweat; cf. *ὑδωρ*, water) sweat.
tumor, *óris* (fr. *tumco*, to swell) a tumor, swelling.
trochan'ter, *éris* (Greek *τροχάω*, to roll) a roller; process
tensor, *óris* (fr. *tendo*, to stretch) a stretcher.
vapor, *óris* (cognate with *κάπνος*, smoke) smoke, steam,
aliquando, sometimes.
dat, gives. **dant**, give.

EXERCISE VI.

A. 1. *Feminae aliquando anseres sunt.* 2. *Vir nervos motores habet.* 3. *Flexores et extensores humeri.* 4. *Anus levatorem et sphincteres habet.* 5. *Sunt aliquando in morbis rigores et calor.* 6. *Fluor humorum est causa morborum.* 7. *Motors carpi musculi.* 8. *Microsporon furfur planta est.* 9. *Renes viri lobos habent.* 10. *Aliquando in morbis sunt stertor, sudor, stupor, tremor, et sopor.*

B. 1. *Vapor of water and salt of ammonia.* 2. *The trembling, snoring and sluggishness of disease.* 3. *The liquids of ammonia and potash (potassa).* 4. *The fluid of the amnion.* 5. *Women have critical periods.* 6. *The lifters of the ribs.* 7. *The sweat and tears of the women.* 8. *Ether is not air.* 9. *The stretchers and benders of the carpus.* 10. *The physician gives a drachm of jalap to the man.*

Some neuter nouns of the third declension form the genitive like the above by adding *is* to the nominative. The accusative and vocative cases in both numbers are like the nominative.

Sometimes a final *l* or *s* of the nominative is doubled when the termination of an oblique case is added. *Vas* (from same root as Sanskrit *vasti*, a bladder, and Latin *vesica*) is declined as follows:—

	SINGULAR.	PLURAL.
<i>Nom.</i>	vas , a vessel	vasa , vessels
<i>Gen.</i>	vasis	vasum
<i>Dat.</i>	vasi	vas'ibus
<i>Acc.</i>	vas	vasa
<i>Voc.</i>	vas	vasa
<i>Abl.</i>	vase	vas'ibus

VOCABULARY VII.

- an'imal**, ā'lis (n) (fr. *anima*, vital principle) animal.
cada'ver, ěris (n) (fr. *cado*, to fall in battle) a corpse.
fel, fellis (n) (kindred with *bilis*, bile) bile, gall.
mel, mellis (n) (Greek μέλι, whence, μέλισσα, a bee) honey.
os, ossis (n) (cf. Sanskrit *osthi*, a bone) a bone.
pulmo, ōnis (n) (fr. πλέυμων, for πνεύμων) the lung.
stear, is (n) (Greek στέαρ, tallow) stiff grease, tallow.
tuber, eris (n) (for *timber* from *tumeo*) a bulb.
tab'ula, æ (fr. the root *tab*, flat surface) a table.
tae'nia, æ (Greek ταινία, from τείνω to stretch) a tape, ribbon; tape-worm.
terebin'thina, æ (fr. Gk. τερεβίνθος, pine tree) turpentine.
terra, æ (kindred with *torreo*, to dry) earth.
testa, æ (allied to *tosta*, parched) a shell.
tib'ia, æ (cf. *tabeo*, to waste away) a flute, shin-bone.
tinctu'ra, æ (fr. *tingo*, to dye) a tincture.
tin'ea, æ (perhaps from τίνω, to punish) a bookworm; ringworm.
tu'nica, æ, a close-fitting undergarment, tunic, covering.
octa'rius, i (fr. *octo*, eight) the eighth of a *congius*; a pint.
oc'ulus, i (dim.; cf. Ionic ὄζζος) an eye.
pedic'ulus, i (dim. of *pes*, a foot) a small foot; pedicle; a louse.

papy'rus, i (Greek *πάπυρος*, the paper-reed) parchment.
ace'tum, i (fr. past part. of *acco*, to become sour) sour wine; vinegar.

curat, cures.

curant, cure.

EXERCISE VII.

A. 1. *Mistura fellis et mellis.* 2. *Ossa tubera et pediculos habent.* 3. *Chirurgus (surgeon) caneros et tumores curat.* 4. *Medicus rubeolam et scarlatinam curat.* 5. *Animalia ossa et musculos habent.* 6. *Octarius tincturae zingiberis.* 7. *Arteriae vasa vasorum (fr. *vasum*, a vessel) habent.* 8. *Medicus curat tineam cum terebenthina.* 9. *Tabulae et laminae ossium.* 10. *Drachma aceti scillae.*

B. 1. The shell of the earth. 2. The covering of the eyes. 3. The physician gives vinegar to the boy. 4. Tinctures of rhubarb and ammonia. 5. There is gall in the vessel. 6. The corpse is on the table. 7. The shin-bone has lines and grooves. 8. A pint of tincture of squill. 9. There is paper in the book. 10. The animal has bones, tallow, and nerves.

Many nouns of the third declension ending in *is* in the nominative singular remain unchanged in the genitive.

Avis (f), a bird (allied to Greek *ἄω*, to move the air), is declined as follows:—

	SINGULAR.	PLURAL.
<i>Nom.</i>	avis , a bird	aves , birds
<i>Gen.</i>	avis , of a bird	a'vium , of birds
<i>Dat.</i>	avi	av'ibus
<i>Acc.</i>	avem	aves
<i>Voc.</i>	avis	aves
<i>Abl.</i>	ave , or i	av'ibus

All the nouns of the third declension in the following vocabulary are similarly declined.

VOCABULARY VIII.

- apis** (f) (fr. *apo*, to fasten) the clinging animal; a bee.
auris (f) (fr. same root as Greek *οὖς*, the ear) an ear.
axis (m) (Greek *ἄξων*, an axle, fr. *ἄγω*, to carry) an axle-tree; second vertebra.
basis (f) (Greek *βάσις*, a pedestal) foundation, base.
crinis (m) (fr. *cer*, as seen in *cresco*, to grow) the hair.
cutis (f) (kindred to *χύτος*, a bag of leather) the skin.
digita'lis (f) (fr. *digitus*, a finger, or *digitale*, a glove finger) foxglove.
febris (f) (fr. *ferbis* fr. *ferveo*, to be warm) a fever.
funis (m) (fr. a root meaning to bind) a rope, cord.
ignis (m) (Sanskrit *agnis*) fire.
naris (f) (cf. *πνέω*, to breathe, *nasum*, the nose) a nostril.
panis (m) (perhaps fr. *Pan*, a demigod of the fields) bread.
pelvis (f) (allied to Greek *πέλιος*, basin) basin, pelvis.
pertus'sis (f) (fr. *per* intens. and *tussis*, cough) whooping cough.
piscis (m) (perhaps allied to *pascor*, feed upon) a fish.
sina'pis (f) (Greek *σίναπις*, mustard) mustard.
sitis (f) (*sitio*, to be dry) thirst.
taxis (f) (from Greek *τάσσω*, to draw) reduction by handling.
testis (m) (fr. *testa*, a shell, because witnesses voted with shells in determining the guilt of the accused) a witness; evidence; testicle.
vis, acc. *vim*, pl. *vires* (cf. Gk. *ῥίζ*, fibre) strength, power.
ulna, æ (fr. Gk. *ὠλένη*, the elbow) ulna; elbow bone.
un'cia, æ (Greek *οὐγκία*, 1-12 of a pound) an ounce.
urtica'ria, æ (from *urtica*, a nettle, fr. *uro*, to burn) nettle rash.
uva, æ (kindred to *uveo*, to be moist) a grape.
u'vula, æ (dim. of *uva*, a grape) small grape; uvula.
causat, causes. **causant**, cause.

EXERCISE VIII.

A. 1. Axis et ulna ossa sunt. 2. In febris sunt crises et lyses. 3. Tinea et urticaria sunt morbi cutis. 4. Feminae pelves habent. 6. Terebenthina ardorem urinae causat. 6. Octarius aceti et drachma tincturae digitalis. 7. Calor, aer, et aqua sunt medicinae. 8. Ipecacuanha et digitalis fluorem urinae causant. 9. Puer pisces et panem habet. 10. Puella pertussem habet.

B. 1. The wings of the birds. 2. The nostrils have dilators and depressors. 3. A pint of vinegar and water for the thirst of fever. 4. An ounce of tincture of foxglove. 5. Gonorrhœa causes a burning of the urine. 6. Bees have antennae but not cars. 7. The surgeon cures the tumor with fire. 8. A crumb of bread. 9. The woman has fish and mustard in the basin. 10. The power of nature is a physician.

Nouns of the third declension ending in *men*, a termination originally added to the root of verbs to form nouns denoting the result of the verbal action, are of the neuter gender. They form the genitive singular by changing the *e* of the final syllable to *i* and adding the genitive termination *is*. *Cerumen*, ear wax, (from *cera*, bleached wax), is thus declined:—

	SINGULAR.	PLURAL.
<i>Nom.</i>	ceru'men	ceru'mina
<i>Gen.</i>	ceru'minis	ceru'minum
<i>Dat.</i>	ceru'mini	cerumin'ibus
<i>Acc.</i>	ceru'men	ceru'mina
<i>Voc.</i>	ceru'men	ceru'mina
<i>Abl.</i>	ceru'mine	cerumin'ibus

VOCABULARY IX.

- abdo'men**, inis (fr. *abdo*, to hide) the belly.
albu'men, inis (fr. *albus*, white) white of egg; albumen.
alu'men, inis (allied to *ἄλς*, salt) alum.
cacu'men, inis (fr. *acumen*, a point, with prefix *c*) top of a plant.
fora'men, inis (fr. *foro*, to bore) a hole, orifice.
gramen, inis (alteration of *creamen*, growth) grass.
inguen, inis (fr. *inquino*, to befoul) the groin.
moli'men, inis (fr. *molior*, to struggle) a bearing down pain.
pecten, inis (Gk. *πέκτυν*, a comb) comb; os pubis.
semen, inis (fr. *scro*, to sow) seed.
stamen, inis (from *sto*, to stand) a standard; stamen of flower.
tormen, inis (from *torquco*, to twist) a writhing, twisting pain.
vagi'na, æ (kindred with *φάγω*, to swallow) a sheath, vagina.
valva, æ (fr. *volvo*, to turn) a folding door, valve.
vulva, æ (altered fr. *volva*, fr. *volvco*, to wrap) a wrapper; vulva.
vari'ola, æ (dim. of *varus*, a blotch) small-pox.
varicel'la, æ (dim. of *varix*, a pimple) chicken pox.
vena, æ (possibly allied to *φαίνω*, to be evident because on surface) a vein.
vesi'ca, æ cf. *vas*, a vessel) a bladder.
via, æ (fr. *ire*, to go) a way, track.
vi'ola, æ (Greek *ἴων*, a violet) a violet.
vita, æ (fr. *vivo*, to live) life.
zona, æ (Greek *ζώνη*, a belt) a belt, girdle, zone.

EXERCISE IX.

- A. 1. Renes in abdomine sunt. 2. Cacumen violae. Sphincter vaginæ. 3. In tibia sunt foramina. 4. Vena

portae in abdomine est. 5. Vir cerumen in auribus habet. 6. Tinctura valerianae est hysteriae medicina. 6. Venae et calculus vesicae. 8. Habet albumen in urina. 9. Feminae molimina et tormina habent. 10. Puer gramen animalibus dat.

B. 1. Alum is a medicine for diseases of the nose. 2. The veins and arteries of bones. 3. In diseases of the kidneys there is albumen in the urine. 4. Life is a road of thorns. 5. The accelerator of the urine is the ejaculator of the seed. 6. Twisting pains in the belly. 7. The bladder has a squeezing muscle. 8. In the fluid of the amnion there is albumen and salt. 9. The "comb" is the bone of the pubes. 10. The boy gives grass to the cows (*vacca*).

Nouns of the third declension ending in *es* usually change *es* to *is* in forming the genitive singular; thus, *pubes*, the pubic hair, genitive *pubis*, of the pubic hair.

The majority of these words, however, form the genitive by adding *is* with an increment.

Caput (neuter), the head (from same root as Greek *κεφαλή* and German *kopf*), is declined as follows:—

	SINGULAR.	PLURAL.
<i>Nom.</i>	ca'put, a head	cap'ita, heads
<i>Gen.</i>	cap'itis	cap'itum
<i>Dat.</i>	cap'iti	capit'ibus
<i>Acc.</i>	ca'put	cap'ita
<i>Voc.</i>	ca'put	cap'ita
<i>Abl.</i>	cap'ite	capit'ibus

VOCABULARY X.

ace'tas, a'tis (m) (fr. *acetum*, vinegar) an acetate.

ade'ps, ad'ipis (m) (fr. Greek *a*, *un*, and root *δαπ*, to tear)

. lard; stiff grease.

- æs**, æ'ris (n) (probably fr. *ἄξ*, a copper coin) brass.
- ætas**, a'tis (f) (fr. *ævitas*, fr. *ævum*, an age) age.
- albu go**, albu'ginis (f) (fr. *albus*, white) white of eye.
- anthrax**, a'cis (m) (Gk. *ἄνθραξ*, burning coal) carbuncle.
- apex**, ap'icis (m) (possibly fr. *apo*, to fasten) a point, top.
- appen dix**, appen'dicis (f) (fr. *ad*, to, and *pendeo*, to hang) appendix.
- atlas**, atlan'tis (m) (Gk. *Ἄτλας*, the god who supported the world on his shoulders) the first vertebra.
- cory za**, æ (fr. Gk. *κόρυς*, head, and *ζέω*, to boil) cold in the head.
- pilus**, i, a hair.
- pinus**, i (f) (kindred to Greek *πίτυς*, pine) a pine tree.
- prunus**, i (f) (Greek *προυνύ*, a plum tree) wild cherry.
- porus**, i (Gk. *πόρος*, a passage) a pore.
- pyrus**, i (f) (fr. the country *Epirus*) a pear tree.
- absin thium**, i (fr. *Ἀψίνθιοι*, a people in Southern Thrace) wormwood.
- ac'idum**, i (fr. *aceo*, to be sour) an acid.
- al lium**, i (probably fr. *alius*, because imported) a garlic.
- ammoni acum**, i (fr. Egyptian through Greek *Ἄμμων*, the tree growing near the temple of Jupiter Ammon) ammoniac.
- am'yllum**, i (*ἄ*, *un*, and *μύλη*, mill, not ground) starch.
- animal'culum**,* i (dim. of *animal*) microscopic animal.
- ani'sum**, i (fr. Greek *ἀνίσχυμ*, to send up an odor) anise.
- ver'tebra**, æ (*verto*, to turn) a spindle; a vertebra.

EXERCISE X.

- A. 1. *Libra adipis et uncia ammonii acetatis.*
 2. *Anthrax est morbus animalium.* 3. *Apices pulmonum.* 4. *Pori cutis et pili capitis.* 5. *Atlas et axis ver-*

* *Animalcula* is the plural of *animalculum*. There is no such word as *animalcule*.

tebrae sunt. 6. Pinus et prunus sunt arbores. 7. Urticaria est morbus cutis et nervorum. 8. Medicus guttam tincturae aconiti puero dat. 9. Amylum et albumen cibis (food) virorum sunt. 10. In aqua sunt animalcula et plantae.

B. 1. Tincture of aconite is a medicine for fevers. 2. Animalcules in vinegar. 3. The atlas is not a bone of the head. 4. Lard and starch are foods. 5. Carbuncle is a skin disease. 6. The age of brass.

GREEK NOUNS OF THE THIRD DECLENSION.

There are many Greek nouns of the third declension, all of which originally formed the genitive singular in *os*. The majority of these words end in *is*, as *diuresis*, *catharsis*.

Catharsis, purging, from *κατά*, down, *αίρω*, to take, and *calomelas* calomel are thus declined:—

SINGULAR.	SINGULAR.
<i>Nom.</i> cathar'sis	calom'elas
<i>Gen.</i> cathar'seos	calomel'anós
<i>Dat.</i> cathar'si	calomel'ani
<i>Acc.</i> cathar'sin	calomel'ana
<i>Voc.</i> cathar'sis	calom'elas
<i>Abl.</i> cathar'si	calomel'ane

Pure Greek words like the above are not found in the plural in medical works. Of late there is a tendency to employ the regular Latin terminations of the third declension, but there is no good reason for so doing.

Another large class of Greek words end in *tis* and *ma*. These originally made the genitive singular in *idos* and *atos*, but now *idis* and *atis* are preferred; thus, *bronchitis* forms the genitive *bronchitidis*, and *exanthema*, *exanthematis*. Those ending in *tis* are feminine; those ending in *ma* are neuter.

Rhus (fem.), sumac, ivy (from Greek ῥοῦς, gen. ῥοός) and *alctris*, are declined as follows:—

SINGULAR.	SINGULAR.
<i>Nom.</i> rhus, ivy	al'etris (f), star grass
<i>Gen.</i> rhois	alet'ridis
<i>Dat.</i> rhoi	alet'ridi
<i>Acc.</i> rhoem or en	alet'ridem or en
<i>Voc.</i> rhus	al'etris
<i>Abl.</i> rhoe or i	alet'ride

Words like the above are used only in the singular. The nouns of this declension ending in *ma* are used in both numbers.

Enema, a clyster, from ἐνέημι, to inject, is thus declined:—

SINGULAR.	PLURAL.
<i>Nom.</i> en'ema, clyster	enem'ata, clysters
<i>Gen.</i> enem'atis	enem'atum
<i>Dat.</i> enem'ati	enemat'ibus
<i>Acc.</i> en'ema	enem'ata
<i>Voc.</i> en'ema	enem'ata
<i>Abl.</i> enem'ati or e	enemat'ibus

VOCABULARY XI:

al'etris, idis (f) (Gk. ἀλετρις, a female slave who grinds corn) star grass.

am'yris, idis (f) (Gk. ἀ, intensive, and μύρον, odorous juice) amyris.

aphis, idis (f) (Greek ἀφίς, a louse) a plant louse.

arthri'tis, idis (f) (Greek ἀρθριτις) inflammation of a joint.

as'caris, idis (f) (Gk. ἀσκαρίς, a maw worm) pin-worm.

asclep'ias, adis (f) (fr. Ἄσκληπιος, Æsculapius) milkweed.

colocyn'this, idis (f) (fr. κολοκύνθη, pumpkin) colocynth.

hamame'lis, idis (f) (from ἅμα, like, and μήλον, an apple) witch hazel.

- coma**, atis (n) (Greek *κώμα*, deep sleep) coma.
glottis, idis (f) (fr. *γλῶττα*, the tongue) the glottis.
gramma, atis (n) (Gk. *γράμμα*, a letter, a coin) a gram.
hepar, atis (n) (Greek *ἥπαρ*, liver) liver.
hydras'tis, idis (f) (fr. *ὕδωρ*, water) golden seal.
juglans, ndis (f) (*Jovis*, of Jove, *glans*, nut) butternut.
lapis, idis (f) (cf. Greek *λίθος*, a stone) a stone.
mias'ma, atis (n) (fr. Greek *μιάζω*, to contaminate) an effluvium.
physostig'ma, atis (n) (from Greek *φύσις*, growth, *στίγμα* head) Calabar bean.
phosphis, i'tis (m) (fr. *φῶς*, light) a phosphite.
plasma, atis (n) (fr. Greek *πλάσσω*, to form) plasma.
pneuma, atis (n) (fr. Gk. *πνεύμα*) a gaseous substance.
pyr'amis, idis (f) (possibly fr. *πῦρ*, fire) a pyramid.
rheuma, atis (n) (fr. Gk. *ῥέω*, to flow) a humor.
rhizo'ma, atis (n) (fr. Gk. *ρίζα*, a root) root stock.
stigma, atis (n) (fr. Gk. *στίζω*, to point) the top of a pistil.
sulphis, i'tis (m) (sulphur) a sulphite.
sympto'ma, atis (n) (*σύν*, together, *πίπτω*, to fall) symptom
syste'ma, atis (n) (*σύν*, together, *ἵστημι*, to stand) system.
theobro'ma, atis (n) (*θεός*, god, *βροῦμα*, food) cocoa.
antrum, i (Greek *ἄντρον*, a cave) a cavity.
arca'num, i (fr. *arcco*, to shut up) a nostrum.

EXERCISE XI.

- A. 1. Rubor et tumor symptomata arthritidis sunt.
 2. Medicus enema hydrastidis puero dat. 3. Morbus oculorum symptoma syphilidis est. 4. Gramma sodii phosphitis et uncia theobromatis. 5. Hepar sulphuris morbis cutis. 6. Fel in urina est symptoma morbi hepatis. 7. Pyramides renum. 8. Miasmata causae februm sunt. 9. In corpore sunt arcana naturae. 10. In exanthematibus sunt maculae, papulae, et bullae.

B. 1. An ounce of tincture of golden seal. 2. A pound of star grass in a gallon of water. 3. In the cavity of the jaw-bone there is a membrane. 4. A pint of tincture of agave in the shop. 5. The man has cancer of the liver and kidneys. 6. In the bladder there are sometimes pebbles, but not stones. 7. The rootstock of ivy is not a medicine. 8. A gramme of sulphite of soda in water. 9. The nerves, veins, and lobes of the liver. 10. Macules and papules are symptoms of syphilis.

CHAPTER VIII.

THE FOURTH DECLENSION.

NOUNS of the fourth declension form the genitive singular in *us*, the *u* being a contraction of the earlier ending *uis*, and is, therefore, long in quantity; e. g., *manus*, a hand, genitive *manus*, of a hand. The *us* of the genitive is sometimes written with the circumflex accent in order to distinguish it from the nominative singular.

Nouns of this declension ending in *us* are masculine with the exception of *manus*, a hand, *acus*, a needle, and the names of plants, which are feminine.

Nouns of the fourth declension ending in *u* are of the neuter gender.

The genitive plural ends in *uum*, the dative plural in *ibus*, except *acus*, a needle, *arcus*, a bow, *artus*, a joint, *lacus*, a lake, and *partus*, a birth, which form the dative plural in *ubus*.

Manus (fem.) a hand (fr. Aryan root *ma*, to measure) is declined as follows:—

	SINGULAR.	PLURAL.
<i>Nom.</i>	<i>manus</i> , a hand	<i>manus</i> , hands
<i>Gen.</i>	<i>manus</i>	<i>man'uum</i>
<i>Dat.</i>	<i>man'ui</i>	<i>man'ibus</i>
<i>Acc.</i>	<i>manum</i>	<i>manus</i>
<i>Voc.</i>	<i>manus</i>	<i>manus</i>
<i>Abl.</i>	<i>manu</i>	<i>man'ibus</i>

VOCABULARY XII.

abor'tus, ūs (*aborior*, to rise from a losing game) abortion.

absces'sus, ūs (*abs*, from, and *cedo*, go) departure, abscess.

afflux'us, ūs (*ad*, to, and *fluo*, to flow) a flowing to, afflux.

- appara'tus**, ūs (*ad*, for, *paratus*, ready) instruments, apparatus.
- aqueduc'tus**, ūs (*aqua*, water, *ductus*, a duct) a water way, aqueduct.
- audi'tus**, ūs (fr. *audio*, to hear) hearing.
- co'itus**, ūs (*cum*, together, *ire*, to go) intercourse (sexual).
- congres'sus**, ūs (*cum*, together, *gradior*, to walk) coitus.
- cornus**, ūs (f) (fr. *cornu*, a horn, on account of its hard wood) dogwood.
- cu'bitus**, ūs (fr. *cubo*, to lie down) lying down.
- decu'bitus**, ūs (*de*, from, *cubitus*, lying) position in lying.
- ductus**, ūs (fr. *duco*, to lead) a duct.
- flatus**, ūs (fr. *flo*, to blow) gas in bowels.
- fluxus**, ūs (fr. *fluo*, to flow) a flowing; flux.
- foetus**, ūs (fr. *feo*, to produce) unborn child.
- fructus**, ūs (fr. *fruor*, to enjoy) that which is enjoyed; fruit.
- gustus**, ūs (fr. *gusto*, to taste) that which tastes; sense of taste.
- hab'itus**, ūs (fr. *habeo*, to have or acquire) habit.
- hal'itus**, ūs (fr. *halo*, to breathe) breath, vapor.
- haustus**, ūs (fr. *haurio*, to drink) a draught.
- ictus**, ūs (fr. *ico*, to smite) a stroke.
- lusus**, ūs (fr. *ludo*, to play) a sport, joke.
- motus**, ūs (fr. *moveo*, to move) motion.
- nisus**, ūs (fr. *nitor*, to struggle, bear down) an effort; bearing down.
- olfac'tus**, ūs (fr. *olco*, to emit an odor, and *facio*, to make) sense of smell.
- ra'dius**, i (cf. *ρίζα*, a root) a staff; a spoke; the radius.
- ramus**, i (kindred with *radix*, a root) a branch.
- ranun'culus**, i (f) (dim. of *rana*, a frog) crowfoot.
- rhamnus**, i (f) (Greek *ῥάμνος*, buckthorn) buckthorn.
- ric'inus**, i (f) (fr. root *phric*, to rub) castor oil plant.
- tor'cular**, is (n) (fr. *torquco*, to twist) a wine-press.

EXERCISE XII.

A. 1. Medicus abortum curat. 2. Animal abscessum hepatis habet. 3. Aqueductus Sylvii et cochleae. 4. In decubitu peritonitidis. 5. Inflammatio artuum manus. 6. Ictus solis est morbus systematis nervorum. 7. Monstrositates sunt lusus naturae. 8. Pronatores radii. 9. Venae et ductus fœtus. 10. Fœtus nisum feminae causat.

B. 1. A draught of tincture of valerian. 2. The branches and buds of the trees. 3. The bones of the head and the joints of the hands. 4. The surgeon has needles and apparatus. 5. The man has sunstroke. 6. The nerves of smell, hearing and taste. 7. Crowfoot and buckthorn are plants. 8. The bodies, arches, and pedicles of the vertebrae. 9. The position of the body in inflammation of the joints. 10. A bad (*mala*) mixture of the humors is the cause of disease, says (*ait*) Galen.

It will be observed that the great majority of nouns of the fourth declension ending in *us* are of verbal origin, being derived from the supine or past participle. They denote the action expressed by the verb; thus, *audio*, to hear, *auditus*, hearing; *sentio*, to feel or *sense* a thing, *sensus*, sensation; *volo*, to will or wish, *vultus*, that which expresses the will and desires, *i. e.*, the countenance.

There are but few neuter nouns of this declension. They are all very ancient, being found in the oldest specimens of Latin. It is quite probable that many nouns originally belonging to the fourth declension were converted into nouns of the second or third declensions.

Cornu, a horn (kindred with *κέρας* and German *horn*) is declined as follows:—

SINGULAR.	PLURAL.
<i>Nom.</i> cornu, a horn	cor'nua, horns
<i>Gen.</i> cornus, of a horn	cor'num
<i>Dat.</i> cor'nui	cor'nibus
<i>Acc.</i> cornu	cor'nua
<i>Voc.</i> cornu	cor'nua
<i>Abl.</i> cornu	cor'nibus

VOCABULARY XIII.

- genu**, ūs (fr. same root as Greek γόνυ, a knee) a knee.
- passus**, ūs (fr. *pando*, to pace) a pace, step.
- plexus**, ūs (from *plecto*, to weave) a network of nerves or vessels.
- potus**, ūs (fr. *poto*, to drink) a drink; drinking.
- proces'sus**, ūs (from *pro*, forward, and *cedo*, to go) a projection.
- prolap'sus**, ūs (fr. *pro*, forward, and *labor*, to slip) a slipping forward.
- pulsus**, ūs (fr. *pello*, to drive) a driving; the pulse.
- risus**, ūs (fr. *rideo*, to laugh) a laughing, smile.
- sexus**, ūs (perhaps fr. *seco*, to divide, distinguish) sex.
- sinus**, ūs (*sinuo*, to swell out like a sail) a fold, bay, gulf, cul-de-sac.
- situs**, ūs (fr. *sino*, to locate) a location, site.
- singul'tus**, ūs (from *singuli*, one by one, because of the broken sounds) hiccup, sobbing.
- spir'itus**, ūs (fr. *spiro*, to breathe) breathing, spirit.
- subsul'tus**, ūs (from *sub*, up from under, *silio*, to jump) jumping up, twitching.
- tactus**, ūs (fr. *tango*, to touch) touching, feeling.
- tinni'tus**, ūs (fr. *tinnio*, to tinkle) tinkling, ringing in ears.
- tractus**, ūs (fr. *traho*, to draw) a tract, track.

- tran'situs**, ūs (from *trans*, across, and *ire*, to go) a going across; transit.
- victus**, ūs (fr. *vivo*, to live) what one lives on; victuals.
- visus**, ūs (fr. *video*, to see) seeing; sense of sight.
- vom'itus**, ūs (fr. *vomo*, to puke) vomiting.
- arcus**, ūs (anciently *arquus*) a bow, arch.
- artus**, ūs (fr. *ἄρω*, to join) a joint.
- acus**, ūs (f) (fr. *acuo*, to sharpen) a needle.
- lacus**, ūs (Greek *λάκκος*, a pond) a lake.
- partus**, ūs (fr. *pario*, to bring forth) parturition, birth
- argen'tum**, i (cf. Greek *ἀργής*, white, shining) silver.
- arse'nium**, i (fr. *ἀρσῆν*, a male) arsenic.
- arum**, i (Greek *ἄρον*, wake-robin) wild turnip.

EXERCISE XIII.

A. 1. Balsamum copaibae est gonorrhœae medicina. 2. Subsultus est symptoma morbi nervorum. 3. Medicus balnea calori febris dat. 4. Quinina tinnitum aurium causat, aliquando vomitum. 5. Chirurgus sinum abscessus apparatu curat. 6. In cerebro est plexus venarum, in abdomine plexus nervorum. 7. Viri aliquando cornua in capite habent. 8. Ossa processus et tubera habent. 9. Patella artus genus os est. 10. Medicus potum aquae cum spiritu camphorae puellae dat.

B. 1. The joint of the knee and the bones of the hand. 2. The man has a slipping forward of the eyes. 3. Abscesses have sinuses and tracts. 4. The site of the disease is in the liver. 5. The man has hiccup and a twitching of the muscles. 6. Spirits of æther and ammonia. 7. Salicin and quinine cause ringing of the ears. 8. Diseases of touch, vision, and taste. 9. The man gives food and drink to the woman. 10. Gold, silver and barium are metals (*metalla*).

CHAPTER IX.

THE FIFTH DECLENSION.

THERE are a few nouns of the fifth declension used in medical literature. They all end in *es*, and form the genitive singular in *ei*. All nouns of this declension are feminine except *dies*, a day, which is masculine. Only two nouns, *dies*, and *res*, a thing, are declined in all cases, both singular and plural.

Res, a thing (kindred with $\rho\eta\mu\alpha$, that which is spoken of) is declined as follows:—

SINGULAR.	PLURAL.
<i>Nom.</i> res , a thing	res , things
<i>Gen.</i> rei	rerum
<i>Dat.</i> rei	rebus
<i>Acc.</i> rem	res
<i>Voc.</i> res	res
<i>Abl.</i> re	rebus

VOCABULARY XIV.

- a'cies, ē'i (cf. Greek $\acute{\alpha}\zeta\acute{\iota}\varsigma$, an edge) an edge.
 balbu'ties, ē'i (fr. *balbus*, stammering) stammering.
 calvi'ties, ē'i (fr. *calvus*, adj. bald) baldness.
 cani'ties, ē'i (fr. *canus*, gray, kindred with $\zeta\acute{\alpha}\omega$, to burn to ashes) ash color; grayness of hair.
 ca'ries, ē'i (Sanskrit *karkas*, cancer) decay.
 fa'cies, ē'i (fr. *facio*, to make) that which is formed; face.
 inglu'vies, ē'i (*in*, in, *gula*, gullet) the crop of birds.
 ma'cies, ē'i (fr. *macco*, to be lean) leanness, wasting.
 molli'ties, ē'i (fr. *mollis*, soft) softening.
 ra'bies, ē'i (fr. *rabo*, to rave) madness, hydrophobia.
 sa'nies, ē'i (fr. *sanguis*, blood) blood; fetid matter.

- scab'ies**, ē'i (fr. *scabo*, to scratch) the itch.
spe'cies, ē'i (fr. *specio*, to look) appearance, variety, look.
spes, ē'i (fr. *spero*, to hope) hope.
superfi'cies, ē'i (fr. *super*, upon, and *facies*, the face) upper face; surface.
aspid'ium, i (fr. Gk. ἀσπίδιον, a little shield) shield fern.
aurum, i (old Greek ἄυρον, gold, fr. ἄω, to glitter) gold.
bal'neum, i (Greek βαλανέιον, a bath) a bath.
bal'samum, i (Greek βάλσαμον, fragrant gum) balsam.
ba'rium, i (fr. Greek βαρύς, heavy) the metal barium.
benzo'inum, i (from Arabic *bensoah*, a resin from styax) benzoin.
cad'mium, i (fr. καδμεία, calamine, fr. *Cadmos*, Thebes, where calamine was first found) cadmium.

EXERCISE XIV.

A. 1. Mollities ossium est morbus puerorum.
 2. Ossa faciei et manus. 3. Caries ossium causat fluxum saniei. 4. Rabies est morbus animalium.
 5. Febris et phtthisis maciem causant. 6. Scabies est species morbi cutis. 7. Canities et calvities symptomata ætatis sunt. 8. Benzoinum est medicina anginae.
 9. Calor ictum solis (sun) causat. 10. Aves pennas, alas, et ingluvies habent.

B. 1. He has softening and rottenness of the bones. 2. Grayness and baldness are diseases of the hair. 3. Itch is a disease of boys, rabies of dogs (*canis*). 4. The surface of the bones of the face and head. 5. Tincture of benzoin and oleoresin of shield fern. 6. The physician has no cadmium in his office. 7. A variety of animalcules causes itch. 8. Hope is nature's medicine. 9. The bloody matter of rotten bone. 10. Stammering and hiccup are diseases of the nerves.

CHAPTER X.

INDECLINABLE NOUNS.

MANY words from languages having no declensions like those of Latin and Greek have been introduced into the pharmacopœias of European countries. These are necessarily used like Latin words, but undergo no changes in the various cases. Indeclinable nouns are all assumed to be of the neuter gender. Thus, we should write *alcohol fortius*, not *alcohol fortior*.

VOCABULARY XV.

- buchu**, ind. (an African word) buchu.
cat'echu, ind. (a Malay word, *gatchkuah*, boiled juice).
kino, ind. (a word meaning juice) kino.
kouso, ind. (an Abyssinian word) brayera.
sago, ind. (a Malay word, *sagu*, pith) sago.
sas'safras, ind. (a Spanish word, corrupted from Latin *saxifraga*) spleenwort.
rubus, i (f) (fr. *ruber*, red. "Blackberries are *red* when they are *green*.") a blackberry bush.
saccus, i (Greek *σάξκος*, a bag) a sac.
scirrhus, i (fr. *σχιρρόζ*, hard) a stone cancer.
scopa'rius, i (fr. *scopæ*, twigs for making brooms) broom plant.
somnus, i (fr. same root as Greek *ὑπνος*, sleep) sleep.
stim'ulus, i (cf. Greek *στίζω*, to prick up) prodding; stimulant.
stom'achus, i (fr. Gk. *στόμα*, mouth, and *ἔχω*, to receive) that which receives from the mouth, gullet, stomach.
succus, i (fr. *sugo*, to suck) juice.
sulcus, i (fr. same root as Greek *ὄλχος*, a trench) a ditch, groove.

- syru'pus**, i (Arabic *sherab*, rose water) syrup.
cæcum, i (neuter of adj. *cæcus*, blind) blind gut.
cal'cium, i (fr. *calx*, lime) calcium.
cancrum, i (fr. *cancer*, a cancer) canker.
cap'sicum, i (fr. Greek *κάπτω*, to bite) Cayenne pepper.
centrum, i (fr. Greek *κέντρον*, a sharp point) a centre.
cera'tum, i (fr. *cera*, wax) a cerate.
ce'rium, i (cf. *κηρίτης*, wax-stone) cerium.
cerebel'lum, i (dim. of *cerebrum*) the little brain.
cervix, i'cis (f) (allied to *κέφα*, head) neck.
ceta'ceum, i (*κίτος*, a whale) spermaceti.
carbo, o'nis (m), charcoal, carbon.

EXERCISE XV.

A. 1. Medicus unciam tincturae catechu diarrhœae dat. 2. Sago et fructus rubi cibus sunt. 3. Chirurgus succum limonis arthritidi dat. 4. E succo sambuci (sumach) est color ruber. 5. Femina scirrhum mammae habet. 6. Scoparius et buchu sunt medicamenta (medicines) renibus et vesicæ. 7. Fructus, limones et pyra medicamenta scorbuto sunt. 8. Syrupus papaveris somnum et soporem causat. 9. Alcohol est stimulus cerebri est systematis nervorum. 10. Vir octarium alcohol feminae dat.

B. 1. Bones have furrows, tuberosities and processes. 2. Syrup of hypophosphites is a medicine for wasting. 3. The blind gut and the stomach are in the belly. 4. The physician gives sulphide of calcium for carbuncles. 5. Oxalate of cerium is a remedy for vomiting. 6. Castor and valerian are stimulants of the nerves. 7. There is a gallon of alcohol in the shop. 8. Flowers of kousso and turpentine are remedies for tapeworm. 9. The man has a gallon of tincture of catechu, a pound of sago, and an ounce of sassafras. 10. The muscles and vessels of the neck.

CHAPTER XI.

DERIVATION OF NOUNS.

BY means of suffixes new nouns may be formed from the stems of other nouns, adjectives, or verbs.

I. Nouns derived from other nouns.

Diminutives. Diminutives denote a small thing of the kind specified by the original word; thus, from *cauda*, a tail, we have *caudicula*, a little tail. The gender of the derivatives thus formed is usually the same as that of the primitives. The following are the usual diminutive terminations:—

MASCULINE.	FEMININE.	NEUTER.
-ulus	-ŭla	-ŭlum
-cŭlus	-cŭlā	-cŭlum
-ōlus	-ōla	-ōlum
-ellus	-ella	-ellum

Examples: *Lobus*, a lobe, *lobulus*, a little lobe, a lobule; *rana*, a frog, *ranula*, a little frog; *ovum*, an egg, *ovulum*, a little egg.

If the primitive is of the third, fourth, or fifth declensions, the diminutive is formed by adding *culus* or *iculus*, *a, um*; thus, *auris* (f), an ear, *auricula*, a little ear, external ear; *os* (n), a bone, *ossiculum*, a little bone (of ear); *funis* (m), a rope, *funiculus*, a little rope, a string, cord.

-olus and *-ellus*, *a, um*, are used in forming diminutives of all declensions; thus, *gladius*, a sword, *gladiolus*, a little sword; *modius*, a round measure, *modiolus*, a little cylindrical measure; *hordeum*, a barley corn, *hordcolum*, a little barley corn, a stye; *vita*, life, *vitellus*, a little life, yolk of an egg; *fons* (f), a fountain, *fontinella*, a little fountain (*fontenelle*).

Sometimes, when the diminutive makes a very long word it is contracted. The regular diminutive of *corona*, a crown, would be *coronella*, but that is shortened into *corolla*, a little crown, the colored part of a flower.

-arium added to the root of a noun denotes the place where the primitive abounds; thus, from *ovum*, an egg, we have *ovarium*, an egg basket, an ovary.

VOCABULARY XVI.

- sac'culus**, i (dim. of *saccus*, a bag) a little sack, saccule.
ventric'ulus, i (dim. of *venter*, the belly) a little belly,
infundib'ulum, i (dim. of *infundo*, a funnel) a little funnel.
mandib'ulum, i (dim. of *mando*, a glutton) little glutton;
 lower jaw-bone.
poc'ulum, i (dim. from *πίω*, to drink) a cup.
retinac'ulum, i (dim. form from *re*, back, *teneo*, to hold)
 retainer.
gubernac'ulum, i (dim. of *gubernator*, a pilot) a cord
 which guides the testis of the fœtus to the
 scrotum.
spec'ulum, i (dim. fr. *specio*, to look) a mirror, speculum.
spirac'ulum, i (dim. fr. *spiro*, to breathe) a small pore of
 the skin.
tenac'ulum, i (dim. fr. *teneo*, to hold) a small hook.
tuber'culum, i (dim. of *tuber*, a tuberosity) a tubercle.
vehic'ulum, i (dim. fr. *veho*, to carry) a vehicle.
vestib'ulum, i (dim. fr. *vestis*, a garment) the place where
 garments are taken off on entering a house;
 vestibule.
bicarbo'nas, a'tis (m) (from *bis*, twice, *carbo*, charcoal)
 bicarbonate.
bichro'mas, a'tis (m) (fr. *bis*, twice, *chromium*) bichromate.

- bombax**; a'cis (f) (from βόμβαξ, What the deuce is this?)
cotton tree.
- bubo**, o'nis (m) (fr. Greek βούβων, the groin) an indurated
inguinal gland.
- buccina'tor**, o'ris (m) (fr. *bucina*, a trumpet) a trumpeter;
muscle of cheek.
- cali'go**, ig'inis (f) (kindred with *halo*, a mist) dimness of
vision.
- calx**, calcis (m) (cf. Gk. χάλιξ, cement) lime.
- canth'aris**, idis (f) (Gk. κανθαρίξ, a beetle) Spanish fly.
- cor**, cordis (n) (cf. Sansk. *hrid*, the heart) heart.
- carbo'las**, a'tis (m) (fr. *carbolicus*, carbolic) carbolate.
- carbo'nas**, atis (m) (fr. *carbo*, carbon) carbonate.
- caro**, carnis (f) (cognate with χορέας) flesh.

EXERCISE XVI.

A. 1. Cor auriculas et ventriculos habet. 2. Renes infundibula habent, mandibulum alveolos habet. 3. Syrupus aurantii vehiculum est. 4. In fœtu sunt gubernacula testum. 5. Tubercula in pulmonibus. 6. Chirurgus specula et tenacula habet. 7. Medicus sodii benzoatem diphtheriae dat. 8. Borax cum melle est medicamentum cancro. 9. Bubones sunt aliquando symptomata syphilidis. 10. Musculi cordis non strias habet.

B. 1. The flesh of animals is food for men. 2. Bicarbonate of soda is a remedy for acid in the stomach. 3. Charcoal is a medicine for dyspepsia. 4. Gonorrhœa sometimes causes buboes. 5. The physician gives borax for aphthae. 6. The skin has hairs and perspiratory pores. 7. The lower jaw is a bone of the face. 8. The ear has a vestibule and small bones. 9. The boy has tubercles in his lungs. 10. A cup of water and a pint of alcohol.

II. *Nouns derived from adjectives.*

These are generally formed by adding *-etas*, *-itas*, *-tus*, or *-tudo*, all of the third declension, to the stem of the adjective. They are, as a rule, abstract nouns, and denote the condition of being expressed by the primitive like the English suffixes *ity*, *ty*, *tude*, and *ness*. Thus we may form from *levis*, light, *levitas*, lightness, levity; *acetus*, soured, *acetas*, sourness, acetate; *altus*, high, *altitudo*, height, altitude; *juvenis*, young, *juventus*, youth.

III. *Nouns derived from verbs.*

These are concrete nouns and are formed, usually, by adding *-or*, *-tor*, *-men* or *-mentum* to the stem of the verb.

-or, *-oris*, added to the stem of a supine, denotes that which performs the action expressed by the primitive; thus, from the supine *depressum*, from *deprimo*, to press down, we have *depressor*, that which presses down.

-men, *-minis*, denotes that to which the action expressed by the verb belongs; thus, from *fluo*, to flow, we have *flumen*, a flowing, a current.

-mentum, *i*, denotes the passive instrument of the action expressed by the verb; thus, from *ligo*, to bind, we get *ligamentum*, that by which a thing is bound, a ligament.

-tia *æ* is added to the stem of present participles and verbal adjectives to denote the quality expressed by the primitive, like English *ness*, *dom*; thus from *sapientis*, knowing, we have *sapientia*, knowledge.

-ura, added to the stem of a supine, denotes the thing resulting from the action expressed by the verb, or the thing which performs the action expressed by the verb. Thus, from *strictum*, supine of *stringo*, to contract, we have *strictura*, a stricture, the result of the contrac-

tion; from *fissum*, supine of *findo*, to split, is derived *fissura*, a fissure; and from *cinctum*, supine of *cingo*, to gird, we derive *cinctura*, a girdle, that which girds.

VOCABULARY XVII.

condimen'tum, i (fr. *condio*, to season) that with which a thing is seasoned.

corpus'culum, i (dim. of *corpus*, a body) corpuscle.

crassamen'tum, i (fr. *crasso*, to thicken) a clot.

elemen'tum, i (ety. unknown) an element.

fermen'tum, i (fr. *ferveo*, to ferment) a ferment.

frumen'tum, i (fr. *fruor*, to enjoy) grain; that by which we enjoy life.

herba'rium, i (fr. *herba*, a plant) a receptacle for plants.

ju'gulum, i (dim. of *jugum*, a yoke) little yoke, neck.

linimen'tum, i (fr. *lino*, to anoint) that with which we anoint.

omen'tum, i (from *ominor*, to foretell by omens) that by which we foretell, so called because the soothsayers examined the omentum and made their prophesies therefrom.

sanita'rium, i (from *sanitas*, health) a place where health abounds; a health resort.

pigmen'tum, i (from *pingo*, to paint) paint.

sarmen'tum, i (fr. *sarpo*, to creep) creepers of plants.

tegmen, inis (n) (fr. *tego*, to cover) a cover.

urna'rium, i (fr. *urna*, a funeral urn) a place where urns are kept.

vapo'rium, i (from *vapor*, steam) steaming department of Russian bath.

sanguis, inis (m) (allied to *sanus*, healthy) blood.

talus, i, the ankle bone, astragalus.

ter'minus, i (fr. *τέρμα*, a boundary) the end.

- tarsus, i (Greek *ταρσός*, a basket) the ankle.
 truncus, i (unknown) a trunk (of animal or tree).
 trochis'cus, i (fr. Gk. *τροχόω*, to roll) a wheel, troche.
 tu'bulus, i (dim. of *tubus*, a tube) a small tube.
 ulmus, i (f) (ety. unknown) an elm tree.
 umbili'cus, i (cf. *ὄμφαλος*, navel) navel.
 u'terus, i (fr. *uter*, a bag made of skin) the womb.
 ventus, i (perhaps from *venio*, to come, because always coming) wind.
 virus,* i (n) (Sansk. *veshas* a filthy poison); virus.

EXERCISE XVII.

A. 1. Femina condimenta in cibo habet. 2. Corpuscula crassamenti et plasma sanguinis. 3. Aurum et cadmium elementa sunt. 4. Medicus spiritum frumenti viro dat. 5. Fermenta alcohol et acetum causant. 6. Linimentum cantharidis et aconiti. 7. Talus est os tarsi. 8. Anus est terminus intestini. 9. Trochisci ipecacuanhae et opii. 10. Levitas animi et sapientia aurum sunt.

B. 1. The tubules of the kidneys and of the testicles. 2. The poison of syphilis is in the blood. 3. The fœtus in the womb is in the fluid of the amnion. 4. The fibrin of the blood causes the clot. 5. He gives the man a drink of whisky. 6. There are ferments in the stomach. 7. A tumor of the ovary. 8. Troches of charcoal and bicarbonate of soda.

* *Virus* is the only neuter noun of the second declension, ending in *us*.

CHAPTER XII.

DECLENSION OF ADJECTIVES.

ADJECTIVES may be divided into two classes, according to their inflection: 1. Those belonging to the first and second declensions. 2. Those belonging to the third declension.

Adjectives agree with the nouns which they limit in gender, number, and case, consequently their terminations vary with the nouns to which they are attached.

I. Adjectives of the first and second declensions.

Adjectives of this class end in *us* or *er* in the nominative singular masculine, and are declined throughout in this gender like masculine nouns of the second declension; in the feminine they end in *a* and are declined like nouns of the first declension; in the neuter they end in *um* and are declined throughout like neuter nouns of the second declension.

Albus, white, is thus declined:—

SINGULAR.

	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	albus	alba	album
<i>Gen.</i>	albi	albae	albi
<i>Dat.</i>	albo	albae	albo
<i>Acc.</i>	album	albam	album
<i>Voc.</i>	albe	alba	album
<i>Abl.</i>	albo	alba	albo

PLURAL.

	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	albi	albae	alba
<i>Gen.</i>	albo'rum	alba'rum	albo'rum
<i>Dat.</i>	albis	albis	albis
<i>Acc.</i>	albos	albos	alba
<i>Voc.</i>	albi	albae	alba
<i>Abl.</i>	albis	albis	albis

In a similar manner are declined all adjectives ending in *us*, of this class.

VOCABULARY XVIII.

- acer'bus**, a, um (fr. *acer*, sharp) harsh, bitter.
acet'icus, a, um (fr. *acutum*, vinegar) acetic.
ac'idus, a, um (fr. *acco*, to be sour) acid.
acti'vus, a, um (fr. *ago*, to act) active.
Africa'nus, a, um (fr. Africa) African.
al'gidus, a, um (fr. *algeo*, to feel cold) chilly, cold.
ama'rus, a, um (fr. Sansk. *amas*, raw) bitter.
albus, a, um (cf. Greek *ἀλφός*, white leprosy) white.
anella'tus, a, um (fr. *anello*, to cover with rings) ringed.
anseri'nus, a, um (from *anser*, a goose) belonging to a goose.
anti'cus, a, um (fr. *ante*, before, place) anterior, front.
antiq'uus, a, um (fr. *ante*, before, time) ancient.
aquo'sus, a, um (fr. *aqua*, water) watery.
cartila'go, inis (f) (cf. from *caro*, flesh) cartilage, gristle.
chloras, a'tis (m) (tr. *chlorum*, chlorine) chlorate.
cica'trix, icis (f) (unknown) a scar.
bovi'nus, a, um (from *bos*, an ox) pertaining to cattle; bovine.
calcina'tus, a, um (fr. *calx*, lime) calcined; burnt to lime.
cal'idus, a, um (fr. *calor*, heat) warm.

EXERCISE XVIII.

A. 1. Uncia acidi acetici et drachma calcii sulphidi. 2. Cutis algida est cutis anserina. 3. Linea alba abdominis. 4. Status algidus cholerae Asiaticae. 5. Fructus quercus est amarus. 6. Trachea est tubus anellatus. 7. Musculi antici cervicis. 8. In artubus sunt ossa, cartilaginee elasticae, et ligamenta. 9. Hippocrates medicus antiquus erat (was). 10. Cicatrix ab acie gladioli.

B. 1. A drachm of acetic acid. 2. The Spanish fly is an active medicine. 3. The surgeon cures the tumor and causes a scab. 4. Chloride of sodium is a salt. 5. The anterior muscle of the shin-bone. 6. The windpipe is ringed. 7. The body has flesh and white cartilages. 8. In vinegar there is acetic acid. 9. He gives bitter medicine for dyspepsia.

Adjectives of the first and second declensions ending in *er* in the nominative singular masculine are usually declined like *niger*, black (fr. root *nee*, to die, as seen in νεκρός, dead, *nox*, night, etc.:—

SINGULAR.

	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	niger	nigra	nigrum
<i>Gen.</i>	nigri	nigrae	nigri
<i>Dat.</i>	nigro	nigrae	nigro
<i>Acc.</i>	nigrum	nigram	nigrum
<i>Voc.</i>	niger	nigra	nigrum
<i>Abl.</i>	nigro	nigra	nigro

PLURAL.

	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	nigri	nigrae	nigra
<i>Gen.</i>	nigro'rum	nigra'rum	nigro'rum
<i>Dat.</i>	nigris	nigris	nigris
<i>Acc.</i>	nigros	nigras	nigra
<i>Voc.</i>	nigri	nigrae	nigra
<i>Abl.</i>	nigris	nigris	nigris

In a similar manner decline all adjectives of the first and second declensions ending in *er*, except *asper*, rough, *lacer*, torn, and *tener*, tender, which add the regular terminations to the nominative singular masculine; thus, *asper*, *aspera*, *asperum*; *asperi*, *asperæ*, *asperi*, etc.

VOCABULARY XIX.

- æger**, gra, grum (perhaps fr. *ἀ ἕργος*, not working) sick.
ater, tra, trum (fr. *ardeo*, to burn, *Dawderlein*) coal black.
creber, bra, brum (fr. *cresco*, to increase) frequent.
dexter, tra, trum (cf. Sanskrit *dekkan*, south, or *dhiu*, shining god) right hand.
glaber, bra, brum (cf. Greek *γλαφυρός*, smooth) without hair, smooth.
in'teger, gra, grum (*in*, not, *tango*, to touch or hurt) unhurt, whole.
macer, cra, crum (cf. *macco*, to make soft or lean) lean, thin.
pulcher, chra, chrum (unknown) beautiful.
ruber, bra, brum (cf. *ἐρυθρός*, red) red.
sacer, cra, crum (fr. root *sac*; cf. Greek *ἅγι*, in, *ἅγιος*, holy) sacred, cursed.
scaber, bra, brum (cf. *scabo*, to scratch) rough, mangy.
sinis'ter, tra, trum (perhaps fr. *semi*, half, as in *sinciput* from *semi-caput*, because only half as skillful as the right) left hand.

- calvus**, a, um (cf. Germ. *kahl*, bald) bald.
- can'didus**, a, um (fr. *candeo*, to be bright and white) shining white.
- cani'nus**, a, um (from *canis*, a dog) belonging to a dog; canine.
- canus**, a, um (kindred w. *κάω*, to burn) ash-colored, gray
- caus'ticus**, a, um (fr. Gk. *κάω*, to burn) burning, caustic.
- cavus**, a, um (kindred with *κάω*) burnt out hollow, empty.
- nucha**, æ (Arabic *nookah*, nape of neck) nape of neck.
- chenopo'dium**, i (Gk. *χίγν*, a goose, *πῶς*, a foot) goose foot
- chlorofo'r'mum**, i (fr. *chlorine* and *formyl*) chloroform.
- cil'ium**, i (kindred with *ὄλις*, eyelid) eyelash.
- col'chicum**, i (from Greek *Χολχίς*, Cholchis, where first obtained).
- collo'dium**, i (from *κόλλα*, glue) solution of gun-cotton in ether.
- collum**, i (cf. *cello*, to lift up) the neck.
- coni'um**, i (fr. Gk. *κωνείον*, hemlock) poison hemlock.
- corian'drum**, i (Greek *κορίαννον*, coriander) coriander.
- creoso'tum**, i (Gk. *κρέας*, meat, *σώζω*, to preserve) creosote
- cuprum**, i (fr. *Κύπρος*, Cyprus, where first obtained) copper

EXERCISE XIX.

A. 1. Virus bovinum vacciniam causat. 2. Superficies ossium cranii glabra est. 3. In viris ægris corpus macrum est. 4. Morbus sacer (epilepsy) os sacrum. 5. Os lineam asperam habet. 6. Rabies canina est morbus animalium. 7. In ære sunt acidum carbonicum, ammonia et vapor aquosus. 8. Liquor potassae causticus est. 9. Cranium est glabrum et cavum, facies rubra. 10. Chenopodium est medicamentum ascaridibus.

B. 1. The chloride of silver is white, sometimes black. 2. Chloroform causes anæsthesia. 3. The ligament of the nape of the neck. 4. Cayenne pepper is red;

the leaves are smooth. 5. Collodion is an ethereal medicine. 6. The juice of hemlock. 7. In creosote there is carbolic acid. 8. The man has black eyelashes, hoary hair, and a red skin.

Some irregular adjectives of the first and second declensions. There are six adjectives ending in *us* and three in *er* in the nominative singular masculine, which form the genitive singular in *i'us* and the dative singular in *i* in all genders. In the plural they are regular.

Alius, other, is declined as follows:—

SINGULAR.

MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i> a'lius (Gk. ἄλλος)	a'lia	a'liud
<i>Gen.</i> ali'us	ali'us	ali'us
<i>Dat.</i> ali'i	ali'i	ali'i
<i>Acc.</i> a'lium	a'liam	a'liud
<i>Voc.</i> a'lie	a'lia	a'liud
<i>Abl.</i> a'lio	a'lia	a'lio

The irregular adjectives given below are similarly declined, but have *um* regular in the neuter singular nominative and accusative.

VOCABULARY XX.

alter, era, erum (irreg.) (Greek ἄλλος, and, ἕτερος, other) the other.

neuter, tra, trum (irreg.) (non alter) neither.

nullus, a, um (irreg.) (*non ullus*, any) no; none.

ullus, a, um (irreg.) (fr. *unulus*, a little one) any.

unus, a, um (irreg.) (cf. Gk. ἓν, Ger. *ein*, Eng. *one*) one.

- uter**, tra, trum (irreg.) (perhaps fr. Gk. ὀπότερος) which of the two.
- solus**, a, um (irreg.) (perhaps fr. ὅλος, whole) sole, alone.
- totus**, a, um (irreg.) (unknown) whole.
- aromat'icus**, a, um (fr. Greek ἄρωμα, an odor) aromatic.
- cine'reus**, a, um (fr. cinis, ashes) ash-colored, ashy.
- clarus**, a, um (fr. same root as Ger. klar) clear, renowned.
- clin'icus**, a, um (fr. Greek κλίνη, a bed) clinical.
- complex'us**, a, um (from cum, together, and plecto, to weave) woven together; complex.
- compos'itus**, a, um (from cum, together, pono, to place) composite, compound.
- conca'vus**, a, um (from cum, completely, cavus, hollow) completely hollow; concave.
- contu'sus**, a, um (from cum, together, tundo, to break) bruised.
- cauda'tus**, a, um (fr. cauda, a tail) having a tail; caudate.
- corrosi'vus**, a, um (from con, intensive, rodo, to gnaw) corrosive.
- crit'icus**, a, um (fr. κρίνω, to decide) deciding; critical.
- crucif'erus**, a, um (fr. crux, a cross, fero, to bear) bearing a cross.
- pars**, partis (f) (fr. pario, to divide) a part, portion.
- par**, is (n) (unknown) equal; a pair.
- hilum**, i (cf. nihilum, nothing) a little thing; a seed point.
- hydrar'gyrum**, i (ὕδωρ, water, ἄργυρον, silver) quick-silver, mercury.
- il'eum**, i (fr. Gk. εἰλεος, twisted) third part small intestine.
- il'ium**, i (same as ilcum) haunch bone.

EXERCISE XX.

- A. 1. Medicus drachmam hydrargyri chloridi corrosivi habet. 2. In officina est nullus acetas sodii. 3. Ileum pars intestini parvi. 4. Sunt duo (two) renes,

alter in dextra est, alter in sinistra. 5. Octarius tincturae gentianae compositae. 6. Spiritus ammoniac aromaticus est clavo medicamentum. 7. In abdomine est axis coeliacus arteriarum. 8. Syrupus codeinae clarus est. 9. In sanitate, color pulmonum cinereus est. 10. In hepate sunt lobus caudatus et lobus Spigelii.

B. 1. The body is not the whole man. 2. Some (*nonnullus*) things are of neither sex. 3. No man has two lives. 4. One ounce of aromatic spirit of ammonia. 5. A gallon of carbonic acid. 6. The haunch-bone is a part of the basin. 7. Bichlorides are corrosive salts. 8. The brain is a complex part of the body. 9. In the head are pairs of nerves. 10. The whole body is the work of nature.

II. *Adjectives of the third declension.*

Adjectives of the third declension may be divided into three classes, according to the number of endings in the nominative singular.

1. *Adjectives having three endings in the nominative singular: er masculine, is feminine, and e neuter.*

Puter, rotten (from *puteo*, to stink) is declined as follows:—

SINGULAR.			
	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	puter	putris	putre
<i>Gen.</i>	putris	putris	putris
<i>Dat.</i>	putri	putri	putri
<i>Acc.</i>	putrem	putrem	putre
<i>Voc.</i>	puter	putris	putra
<i>Abl.</i>	putri	putri	putri

PLURAL.

	MASCULINE	FEMININE.	NEUTER.
<i>Nom.</i>	putres	putres	pu'tria
<i>Gen.</i>	pu'trium	pu'trium	pu'trium
<i>Dat.</i>	pu'tribus	pu'tribus	pu'tribus
<i>Acc.</i>	putres	putres	pu'tria
<i>Voc.</i>	putres	putres	pu'tria
<i>Abl.</i>	pu'tribus	pu'tribus	pu'tribus

VOCABULARY XXI.

palus'ter, tris, tre (fr. *palus*, a swamp) marshy.

salu'ber, bris, bre (fr. *salus*, safety) safe, healthy.

sylves'ter, tris, tre (from *sylva*, a forest) growing with woods; sylvan.

vol'ucer, cris, cre (fr. *volo*, to fly) winged; flying.

curvus, a, um (fr. same root as *κροτός*, crooked) curved.

despuma'tus, a, um (from *de*, out from, *spuma*, froth) clarified.

dilu'tus, a, um (fr. *dis*, apart, and *luo*, to wash) dilute.

diur'nus, a, um (fr. *dies*, a day) diurnal.

domes'ticus, a, um (fr. *domus*, a house) domestic.

dras'ticus, a, um (fr. Greek *δράω*, to be active) active.

durus, a, um (Sansk. *du*, to grieve, hurt) hard.

elas'ticus, a, um (from Greek *ἐλαύνω*, to drive) stretching, elastic.

elec'tricus, a, um (fr. *ἤλεκτρον*, amber, in which electricity was first observed) electric.

equi'nus, a, um (fr. *equus*, a horse) belonging to a horse; equine.

cydo'nium, i (from *Κυδωνία*, Cydonia, a city of Crete) a quince.

decoc'tum, i (fr. *de*, from, *coquo*, to cook) a decoction.

deliq'uium, i (from *deliquo*, to be lost) loss of consci-
ousness; fainting.

delphin'ium, i (fr. Greek *δελφίς*, a dolphin) larkspur.

dorsum, i (cf. *retrosum*, backward) the back.

dracon'tium, i (fr. *δράκων*, a dragon) skunk-cabbage.

efflu'vium, i (fr. *ex*, out, and *fluo*, to flow) a miasm.

elate'rium, i (fr. *ἐλαύνω*, to drive) elaterium.

emplas'trum, i (from *ἐν*, upon, and *πλάσσω*, to mould) a
plaster.

extrac'tum, i (fr. *ex*, out, and *traho*, to draw) an extract.

cinis, ěris (m) (cf. *κάω*, to burn, and *κόνη*, dust) ashes.

citras, ā'tis (m) (fr. *citrus*, a citron or lemon tree) citrate.

cortex, icis (m or f) (kindred with *χορίον*, leather) bark;

crus, cruris (n) (cf. *χρέας*, flesh) the leg.

dens, tis (m) (from same Aryan root as *ὀδοῦς*, a tooth) a
tooth.

mors, mortis (m) (fr. *morior*, to die) death.

EXERCISE XXI.

A. 1. Decoctum corticis cinchonae rubrae. 2. Delphininum est planta palustris. 3. Fluxus sanguinis deliquium animi causat. 4. Terra palustris non salubris est. 5. Elaterium est medicamentum drasticum. 6. Accutum est acidum aceticum dilutum. 7. Viola et arum sunt plantae sylvestres. 8. Cauda equina est terminus medullae. 9. Emplastrum belladonnae, emplastrum cantharidis. 10. In mandibulo sunt dentes, in crure, musculi.

B. 1. Syrup of bitter orange peel. 2. Death is the end of the heart's labor. 3. The flexor muscles of the leg. 4. The "hard mother" is a membrane of the brain. 5. The cartilages of the vertebrae are elastic. 6. Dilute nitric acid and mustard plaster. 7. Clarified honey is a vehicle for medicine. 8. The bloody matter

from rotting bone is putrid. 9. The ashes of the man's body are in the urnarium. 10. In swampy land there are effluvia and miasms.

2. *Adjectives of the third declension with two endings in the nominative singular.* Nearly all the adjectives of the third declension found in medical works are of this variety, having *is*, for the termination of the nominative singular masculine and feminine, and *e* for the termination of the nominative singular neuter.

Dulcis, pleasant (from same root as Greek *θὲλγω*, to please), is declined as follows:—

SINGULAR.

	MASC. AND FEM.	NEUTER.
<i>Nom.</i>	dulcis	dulce
<i>Gen.</i>	dulcis	dulcis
<i>Dat.</i>	dulci	dulci
<i>Acc.</i>	dulcem	dulce
<i>Voc.</i>	dulcis	dulce
<i>Abl.</i>	dulci or e	dulci or e

PLURAL.

	MASC. AND FEM.	NEUTER.
<i>Nom.</i>	dulces	dul'cia
<i>Gen.</i>	dul'cium	dul'cium
<i>Dat.</i>	dul'cibus	dul'cibus
<i>Acc.</i>	dulces	dul'cia
<i>Voc.</i>	dulces	dul'cia
<i>Abl.</i>	dul'cibus	dul'cibus

All adjectives of this variety are declined in a similar manner.

VOCABULARY XXII.

- abdomina'lis**, e (fr. *adomcn*, the belly) abdominal.
- abnor'mis**, e (fr. *ab*, away from, and *norma*, a fixed rule) abnormal.
- aborig'inis**, e (fr. *ab*, from, *origo*, origin) original, aboriginal
- acau'lis**, e (fr. *a*, priv., and *caulis*, a stalk) stemless.
- agres'tis**, e (fr. *ager*, a field) growing in the fields.
- ala'ris**, e (fr. *ala*, a wing) winged, or wing-like.
- alluvia'lis**, e (from *ad*, against, *luo*, to wash) washed up, alluvial.
- angula'ris**, e (fr. *angulus*, an angle) angular.
- annula'ris**, e (fr. *annulus*, a little ring) ringed.
- areola'ris**, e (fr. *areola*, dim. of *arca*, a vacant place) areolar
- arsenica'lis**, e (fr. *arsenicum*, arsenic) arsenical.
- arteria'lis**, e (fr. *arteria*, an artery) arterial.
- arven'sis**, e (from *arvum*, a cultivated field) growing in the fields.
- austra'lis**, e (fr. *auster*, the south wind) southern.
- auricula'ris**, e (fr. *auricula*, an auricle) auricular.
- ebur**, eb'oris (n), ivory.
- erysip'elas**, atis (m) (fr. Greek ἐρυθρός, red, πέλλας, skin) erysipelas.
- falx**, leis (f) (Greek φαλξίς) a sickle, hook; process of dura mater.
- femur**, oris (n) (fr. *fero*, to bear) the thigh.
- filix**, icis (m) (fr. *felix*, fruitful, fertile) a fern.
- flos**, o'ris (m) (kindred with *φλόος*, blooming) a flower.
- fomes**, itis (m) (from *foveo*, to kindle) kindling material; contagium.
- fons**, ntis (m) (fr. *fundo*, to pour out) a fountain.

EXERCISE XXII.

- A. 1. Octarius spiritus ætheris dulcis. 2. Aorta abdominalis est vas arterialis. 3. Plantae agrestes sunt

aliquando acaules. 4. Os cranii processus alares habet. 5. Terra alluvialis est locus filicibus. 6. Vertebrae processus arciformes et spinas habent. 7. Liqueur arsenicalis est medicamentum choreae. 8. Sanguis arterialis est ruber. 9. Chirurgus tumores abnormes curat. 10. Appendices auriculares cordis.

B. 1. A portion of a tooth is ivory. 2. The sickle of the brain is a process of the "hard mother." 3. The flexor muscles of the thigh. 4. The edge of the angular processes of the frontal bone. 5. Male fern causes the death of tapeworms. 6. A gallon of tincture of arnica flowers. 7. Arterial blood has no carbonic acid. 8. The crowfoot growing in the fields is a beautiful flower. 9. In the tunic of the doctor is the contagious material of cholera. 10. A drachm of sweet spirit of nitre.

3. *Adjectives of the third declension having but one ending for all genders in the nominative singular.* The adjectives of this class all end in *l*, *r*, *s*, or *x*, and increase in the genitive. The present participle ending in *us* belongs to this class.

Ferox, fierce (from same root as *ferus*, wild) is declined as follows:—

SINGULAR.

	MASC. AND FEM.	NEUTER.
<i>Nom.</i>	ferox	ferox
<i>Gen.</i>	fero'cis	fero'cis
<i>Dat.</i>	fero'ci	fero'ci
<i>Acc.</i>	fero'cem	ferox
<i>Voc.</i>	ferox	ferox
<i>Abl.</i>	fero'ci or e	fero'ci or e

PLURAL.

	MASC. AND FEM.	NEUTER.
<i>Nom.</i>	fero'ces	fero'cia
<i>Gen.</i>	fero'cum	fero'cum
<i>Dat.</i>	feroc'ibus	feroc'ibus
<i>Acc.</i>	fero'ces	fero'cia
<i>Voc.</i>	fero'ces	fero'cia
<i>Abl.</i>	feroc'ibus	feroc'ibus

VOCABULARY XXIII.

- attol'lens (fr. *ad*, up to, *tollo*, to raise) raising up.
 at'rahens (fr. *ad*, to, and *traho*, to draw) drawing to.
 ardens (fr. *ardeo*, to burn) burning; ambitious.
 astrin'gens (fr. *ad*, to, *stringo*, to press) pressing together,
 astringent.
 demul'cens (fr. *de*, from, *mulceo*, to strip) demulcent.
 fervens (fr. *ferveo*, to boil) boiling.
 fragrans (fr. *fragro*, to emit an odor) fragrant.
 oppo'nens (from *ob*, against, *pono*, to place) opposing.
 ret'rahens (fr. *re*, back, *traho*, to draw) retracting,
 repens (fr. *repto*, to creep) creeping.
 serpens (fr. *serpo*, to crawl like a snake) creeping.
 semper'virens (fr. *semper*, ever, *virens*, green) evergreen.
 tremens (fr. *tremo*, to tremble) trembling.
 bilia'ris, e (fr. *bilis*, bile) biliary.
 borea'lis, e (fr. *Βόρreas*, *Boreas*, the north wind) northern.
 brachia'lis, e (fr. Greek *βραχίον*, the arm) brachial.
 brevis, e (fr. same root as *βραχύς*, short) short.
 bul'liens (fr. *bullio*, to boil) boiling.
 campes'tris, e (fr. *campus*, a plain) growing in a plain.
 canaden'sis, e (fr. *Canada*) Canadian.
 capita'lis, e (fr. *caput*, the head) capital.
 castren'sis, e (fr. *castra*, a camp) of inhabited places.
 cauda'lis, e (fr. *cauda*, a tail) caudal.

- cellula'ris**, e (fr. *cellula*, dim. of *cella*, store-room) cellular.
- centra'lis**, e (fr. *centrum*, a centre) central.
- cerea'lis**, e (fr. *Ceres*, the goddess of the harvest) belonging to grain; cereal.
- cervica'lis**, e (fr. *cervix*, the neck) cervical.
- columna'ris**, e (fr. *columna*, a column, fr. *cello*, to raise) columnar.
- commu'nis**, e (from *con*, together, and *munus*, function) serving together, common.
- cordia'lis**, e (fr. *cor*, the heart) cordial, comforting.
- ferrum**, i (perhaps kindred with *ἱερός* (*hierus*), sacred. We see the opposite change in Spanish *hierro*, from *ferrum*) iron.
- filtrum**, i (from Old German *filt*, felt, of which filters were first made).
- fluo'rium**, i (fr. *fluor*, because assisting in the smelting of other metals) fluorine.
- frænum**, i (unknown) a check-rein, curb.
- fulcrum**, i (fr. *fulcio*, to prop) a prop.
- gelse'mium**, i (fr. Persian *yasamin*, jasmine) jasmine.
- gera'nium**, i (fr. Gk. *γεράνιον*, a little crane) cranesbill.
- gossyp'ium**, i (first found in Pliny) cotton root.
- granum**, i (Aryan *gar*, corn) a grain of corn; 1-60 of a drachm.
- homo**, minis (m) (fr. *humus*, the ground) mankind.

EXERCISE XXIII.

A. 1. In vesica biliare sunt calculi. 2. Musculus brachialis anticus est flexor cubiti. 3. Flexor brevis digitorum est musculus cubiti. 4. Granum extracti geranii. 5. Potus alcohol crebri sunt causa delirii trementis. 6. Typhus est morbus castrensis. 7. Os femoris est fulcrum cruris. 8. Fraenum linguae. 9. Gutta tincturae gelsemii sempervirentis. 10. In pulmonibus sunt tubuli bronchiales.

B. 1. The leaves of cranesbill are fragrant. 2. Fluorine is a chemical element. 3. There is boiling water in the filter. 4. A salt of iron in the blood. 5. Tincture of opium is a cordial. 6. The root of the cotton plant causes abortion. 7. The raising muscle of the ear. 8. The scientific name of man is *homo sapiens*. 9. The leaves of creeping triticum. 10. Cereal foods.

The present participle ending in *ns* forms the genitive in *ntis*.

Dolens, paining or painful, from *doleo*, to be in pain, is declined as follows:—

SINGULAR.

	MASCULINE.	FEMININE.
<i>Nom.</i>	dolens	dolens
<i>Gen.</i>	dolen'tis	dolen'tis
<i>Dat.</i>	dolen'ti	dolen'ti
<i>Acc.</i>	dolen'tem	dolens
<i>Voc.</i>	dolens	dolens
<i>Abl.</i>	dolen'te or e	dolen'te or i

PLURAL.

	MASCULINE	FEMININE.
<i>Nom.</i>	dolen'tes	dolen'tia
<i>Gen.</i>	dolen'tium	dolen'tium
<i>Dat.</i>	dolen'tibus	dolen'tibus
<i>Acc.</i>	dolen'tes	dolen'tia
<i>Voc.</i>	dolen'tes	dolen'tia
<i>Abl.</i>	dolen'tibus	dolen'tibus

CHAPTER XIII.

COMPARISON OF ADJECTIVES.

IN Latin, as in English, there are three degrees of comparison: the *positive*, the *comparative*, and the *superlative*.

The *comparative* degree is regularly formed by adding *ior* to the stem of the positive; thus, from *mitis*, mild, we have the comparative *mitior*, milder.

The *superlative* degree is regularly formed by adding *issimus*, *a*, *um* to the stem of the positive. Thus, from *mitis*, mild, we have the superlative *mitissimus*, mildest. When the nominative singular, however, ends in *er*, the superlative degree is formed by adding *rimus* to the positive; thus, from *ruber*, red, we have the superlative *ruberrimus*, *a*, *um*, reddest.

Adjectives of the comparative degree all belong to the third declension. For example, *fortior*, stronger, from *fortis*, strong, is thus declined:—

SINGULAR.

	MASC. AND FEM.	NEUTER.
<i>Nom.</i>	for'tior	for'tius
<i>Gen.</i>	fortio'ris	fortio'ris
<i>Dat.</i>	fortio'ri	fortio'ri
<i>Acc.</i>	fortio'rem	for'tius
<i>Voc.</i>	for'tior	for'tius
<i>Abl.</i>	fortio'ri or e	fortio'ri or e

PLURAL.

	MASC. AND FEM.	NEUTER.
<i>Nom.</i>	fortio'res	fortio'ra
<i>Gen.</i>	fortio'rum	fortio'rum
<i>Dat.</i>	fortior'ibus	fortior'ibus
<i>Acc.</i>	fortio'res	fortio'ra
<i>Voc.</i>	fortio'res	fortio'ra
<i>Abl.</i>	fortior'ibus	fortior'ibus

Adjectives of the superlative degree are declined like those of the first and second declensions.

VOCABULARY XXIV.

- falsus**, a, um (fr. past part. of *fallo*, to deceive) false.
febrif'ugus, a, um (from *febris*, fever, and *fugo*, to drive away) febrifuge.
feli'nus, a, um (fr. *felis*, a cat) feline.
flavus, a, um (cf. *φλόξ*, a flame) yellow.
flor'idus, a, um (fr. *flos*, a flower) blooming.
flu'idus, a, um (fr. *fluo*, to flow) fluid.
fulvus, a, um (allied to *flavus*, yellow) deep yellow, tawny.
fusus, a, um (fr. part. of *fundo*, to pour out) melted, fused.
gal'licus, a, um (fr. *Galli*, the Gauls, or *galla*, a gall-nut) French, gallic.
gas'tricus, a, um (fr. Greek *γαστήρ*, the stomach) gastric.
gem'inus, a, um (kindred with *γαμέω*, to marry) twin.
glaucus, a, um (Greek *γλαυκός*, bright) shining gray.
gratus, a, um (kindred w. *χάρις*, dear) pleasing, grateful.
grav'idus, a, um (fr. *gravis*, heavy) full, pregnant.
hepat'icus, a, um (fr. Greek *ἥπαρ*, the liver) hepatic.
huma'nus, a, um (fr. *homo*, a man) pertaining to man.
hyber'nus, a, um (fr. *hiems*, winter) wintry.
ili'acus, a, um (fr. *ilium*, the haunch-bone) iliac.
corona'lis, e (fr. *corona*, a crown) coronal.
cortica'lis, e (fr. *cortex*, bark) bark or outer layer.
costa'lis, e (fr. *costa*, a rib) costal.
crura'lis, e (fr. *crus*, a leg) belonging to a leg, crural.
fornix, icis (m) (allied to *furca*, a fork) arch, connection.
frigus, goris (n) (fr. same root as *ψίχος*, cold) cold.
frons, frondis (f) (fr. same root as *frux*, fruit) a stem.
frons, frontis (f) (cf. Greek *ὄφρυς*, eyebrow) forehead.
genus, ěris (n) (kind. w. *γεννάω*, to produce) a race, genus.

glans, glandis (f) (kindred w. *βάλανος*, an acorn) a gland.

gluten, inis (n) (fr. *gluo*, to stick together) glue, gluten.

halo, ō'nis (f) (Gk. *ἄλωζ*, a circle around the sun) areola of nipple.

helix, icis (f) (*ἕλιξ*, a coil) part of external ear.

herpes, ē'tis (m) (from *ἔρπω*, *serpo*, to creep) an eruptive skin disease.

hiru'do, inis (f) (unknown) a leech.

hydrops, ō'pis (n) (from Greek *ὑδῶρ*, water, *ᾄψ*, looking) dropsy.

quam, than.

EXERCISE XXIV.

A. 1. Diarrhœa est morbus mitior quam cholera.
 2. Alcohol fortius est antisepticum. 3. Spinae vertebrarum ligamenta flava habent. 4. Extractum cornus floridae fluidum. 5. Potassa fusa est caustica. 6. Spiritus frumenti fortior est quam aqua. 7. Nervi craniales in paribus sunt. 8. Uterus abactus (empty) brevior est quam uterus gravidus. 9. In osse frontis sunt cavitates, in cerebro, fornix. 10. Gluten cereale est cibus diabeticorum.

B. 1. The surgeon has leeches and apparatus.
 2. Dropsy of the amnion is not a common disease.
 3. The "coil" of the ear and the gland of the penis.
 4. The cat tribe, the dog species. 5. The bone of the forehead is a part of the skull. 6. There is the stem of a leaf in the fountain of water. 7. Cold is astringent, heat is antiseptic. 8. The "bark" of the brain and kidneys. 9. The iliac arteries and nerves. 10. Whisky is more pleasant than compound tincture of gentian.

IRREGULAR COMPARISON OF ADJECTIVES.

Many adjectives in Latin, as in the modern languages, are compared irregularly: This results from the

use of synonyms, of which a part have been lost, so that the different degrees are often derived from entirely different words.

In the following list will be found the principal irregular adjectives used in medical works:—

POSITIVE.	COMPARATIVE.	SUPERLATIVE.
Bonus, <i>good</i>	me'lior,	op'timus
Dexter, <i>on the right</i>	dexte'rior	dex'timus
Ex'tera (f), <i>outward</i>	exte'rior	extre'mus
	infe'rior, <i>lower</i>	in'fimus
	inte'rior, <i>inner</i>	in'timus
Malus, <i>bad</i>	pejor	pes'simus
Magnus, <i>large</i>	major	max'imus
Multus, <i>many</i>	plus	plu'rimus
Parvus, <i>small</i>	minor	min'imus
Pos'tera, <i>behind</i>	poste'rior	postre'mus
	prior, <i>former</i>	primus
	pro'prior, <i>nearer</i>	prox'imus
Su'perus, <i>above</i>	supe'rior	supre'mus
	ulte'rior, <i>further</i>	ul'timus

When *quam*, than, is not expressed after the comparative degree, the noun with which the first thing is compared is put in the ablative case; thus we may say:—*Mel dulcius est quam acetum*, honey is sweeter than vinegar, or, *mel dulcius est aceto*.

The superlative is often rendered by the positive with *very*; thus *optimus vir* may be rendered either *the best man*, or *a very good man*, *an exceedingly good man*.

VOCABULARY XXV.

- impu'rus**, a, um (fr. *im*, not, and *purus*, pure) impure.
in'dicus, a, um (fr. *India*) Indian.
innomina'tus, a, um (fr. *in*, not, and *nomino*, to name) not named.
insa'nus, a, um (fr. *in*, not, and *sanus*, healthy) insane.

- lac'ticus, a, um (fr. *lac*, milk) lactic.
- largus, a, um, broad, large.
- liq'uidus, a, um (fr. *liquor*, a fluid) liquid.
- longus, a, um (cf. Greek *λογγάζω*, to loiter) long.
- latus, a, um (kindred with *πλατύς*, broad) broad, wide.
- lotus, a, um (fr. *luo*, to wash) washed.
- lymphat'icus, a, um (fr. *Lympha*, clear water, lymph)
lymphatic.
- denta'tus, e (fr. *dens*, a tooth) toothed.
- dorsa lis, e (fr. *dorsum*, the back) dorsal.
- erec'tilis, e (fr. *erigo*, to erect) erectile.
- facia'lis, e (fr. *facies*, the face) facial.
- feb'rilis, e (fr. *febris*, fever) febrile.
- femora'lis, e (fr. *femur*, the thigh) femoral.
- flex'ilis, e (fr. *flexo*, to bend) bending, flexile.
- fœta'lis, e (fr. *fœtus*, an embryo) fœtal.
- frag'ilis, e (fr. *frango*, to break) easily broken, fragile.
- nasus, i (cf. Aryan *sna*, to discharge, Eng. *snot*) the nose.
- nastur'tium, i (fr. *nasus*, nose, and *torquco*, to twist)
nasturtium.
- infu'sum, i (fr. *in*, in, and *fundo*, to pour) an infusion.
- insec'tum, i (fr. *in*, not, *seco*, to cut, too small to be cut)
an insect.
- intesti'num, i (fr. *intus*, within) intestine, gut.
- io'dum, i (fr. *ιώδης*, violet color) iodine.
- ka'lium, i (fr. Arabic *kali*, an alkaline plant) potassium.
- la'bium, i (perhaps fr. *labor*, to slip or slide) lip.
- labrum, i (fr. *labium*, a lip) the lip of a flower or insect.
- lactuca'rium, i (fr. *lac*, milk, the color of its juice) lettuce.
- lardum, i (cf. Greek *λαρός*, fat) lard.
- lignum, i (kindred with *ligo*, to bind) fire wood, wood.
- linum, i (Greek *λίνον*, flax) flax.
- lith'ium, i (fr. Greek *λίθος*, a stone) lithium.

EXERCISE XXV.

A. 1. Musculi faciales et dorsales multi sunt. 2. Musculus longissimus dorsi major est longo muculo colli. 3. Libra sulphuris loti et drachma nasturtii gemmarum. 4. In vulva feminae sunt labia majora et minora. 5. Tinctura cannabis Indicae est stimulus nervorum. 6. Levatores labii superioris sunt musculi faciales. 7. Musculus latissimus dorsi est depressor acromii. 8. Infusum lactucarii soporem causat. 9. In vagina sunt labia et cervix uteri. 10. Caput foetale maris majus est quam caput foetale femininum.

B. 1. Quinine and aconite are very good medicines for febrile diseases. 2. River water is good for drinking and baths. 3. The bones of birds are more fragile than those of cats and dogs. 4. The outer surface of the frontal bone is smooth. 5. The small gut is longer than the large. 6. Infusion of digitalis is a medicine for diseases of the heart. 7. The extending muscle of the "smallest" (little) finger. 8. The physician gives a flax seed poultice to the boy. 9. Carbonate of lithium is diuretic. 10. Itch is a bad disease, syphilis is worse, but leprosy the worst of all.

CHAPTER XIV.

NUMERAL ADJECTIVES.

NUMERAL* adjectives are of three kinds, viz., cardinals, ordinals, and distributives. From numeral adjectives numeral adverbs are derived.

CARDINALS.	ORDINALS.	DISTRIBUTIVES.	NUMERAL ADVERBS.
Unus, j	primus, <i>first</i>	sin'guli, <i>one by one</i>	semel, <i>once</i>
Duo, ij	secun'dus, <i>second</i>	bini, <i>two by two</i>	bis, <i>twice</i>
Tres, iij	ter'tius, <i>third, etc.</i>	terni, <i>three by three</i>	ter, <i>thrice</i>
Quatuor, iv	quartus	quater'ni	quater, <i>four times</i>
Quinque, v	quintus	quini	quin'quies
Sex, vj	sextus	seni	sex'ties
Septem, vij	sep'timus	septe'ni	sep'ties
Octo, viij	octa'vus	octo'ni	oc'ties
Novem, ix	nonus	nove'ni	no'nies
Decem, x	dec'imus	deni	de'cies
Un'decim, xj	undec'imus	unde'ni	unde'cies
Duod'ecim, xij	duodec'imus	duode'ni	duode'cies
Tre'decim, xij	ter'tius dec'imus	terni deni	terde'cies
Quatuor'decim, xiv	quartus dec'imus	quater'ni deni	quatuorde'cies
Quin'decim, xv	quintus dec'imus	quini deni	quinde'cies
Se'dccim, xvj	sextus dec'imus	seni deni	sede'cies
Septen'decim, xvij	sep'timus dec'imus	septe'ni deni	de'cies et sep'ties
Vigin'ti, xx	vices'imus	vice'ni	vi'cies
Quinquagin'ta, l	quinquages'imus	quinquage'ni	quinqua'gies
Centum, c	centes'imus	cente'ni	cen'ties
Mille, m	milles'imus	mille'ni	mil'lies

* *Numerus*, a number, comes from an Aryan root, *nam*, meaning to divide. It may interest the student to know that the names of numerals in all languages are derived by metaphor. Thus, *one*, Greek *hen*, Latin *unus*, and German *ein*, are all derived from the root of the first personal pronoun *I*. The word *two*, Greek and Latin *duo*, is from the root of the second personal pronoun, cf. German *Du*, Greek and Latin *te, tuus*. *Five*, Greek *pente*, Latin *quinque*, German *funf*, are all akin to the Sansk. *pāni*, the hand, which has five fingers. The Greek *deca*, ten, and Latin *decem*, contain the same root as the Greek *dactylos* and Latin *digitus*, finger, the ten fingers being thus the foundation of the decimal system.

Unus, one, is declined throughout, of course only in the singular, like an irregular adjective of the first and second declensions. (See declension of *alius*, p. 141.)

Duo, two, is declined as follows:—

	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	duo	duae	duo
<i>Gen.</i>	duo'rum	dua'rum	duo'rum
<i>Dat.</i>	duo'bus	dua'bus	duo'bus
<i>Acc.</i>	duos or o	duas	duo
<i>Voc.</i>	duo	duae	duo
<i>Abl.</i>	duo'bus	dua'bus	duo'bus

Tres, three, is declined like an adjective of two endings of the third declension; thus, *tres*, *tria*; *trium*, *trium*, etc. All other cardinals are indeclinable.

Ordinals are declined like adjectives of the first and second declensions.

Distributives are declined like adjectives of the first and second declensions in the plural, but form the genitive masculine and neuter in *um* instead of *orum*; thus, masculine *bini*, feminine *binac*, neuter, *bina*, nominative; *binum*, *binarum*, *binum*, genitive, etc.

There is also a class of *multiplicatives* ending in *plex* from *plico*, to fold; thus, *simplex* (*semelplex*) single, *duplex*, double, *triplex*, triple, *quadruplex*, fourfold, etc.

VOCABULARY XXVI.

or'ganum, i (fr. Greek *ὄργεω*, to work) a tool, organ.

os'tium, i (fr. *os*, a mouth) an entrance.

ox'idum, i (fr. *ὄξις*, sour) an oxide.

pab'ulum, i (fr. *pascor*, to graze) fodder, nutriment.

pala'tum, i (fr. *balato*, to bleat) the palate.

palla'dium, i (fr. *Παλλάς*, Minerva) the metal palladium.

- pedilu'vium**, i (fr. *pedes*, feet, and *luo*, to wash) foot bath.
- plumbum**, i (cognate with *μόλυβδος* lead) lead.
- podophyl'lum**, i (fr. Greek *ποῦς*, foot, and *φύλλον*, leaf) mandrake.
- potas'sium**, i (fr. English *potash*) also called *kalium*.
- poma'tum**, i (fr. *pomum*, fruit) a pommade.
- index**, icis (m) (fr. *indico*, to point out) first finger.
- iter**, in'eris (n) (fr. *ire*, to go) a passage.
- jecur**, ōris (m) (cognate with *ζῆσσορ*) liver.
- jus**, juris (n) (cf. *jugum*, a yoke) that which is binding, law.
- lac**, lactis (m) (cognate with *γάλα*, milk) milk.
- lanu'go**, ĩnis (f) (fr. *lana*, wool) downy hair on skin.
- lens**, tis (f) (unknown) a lentil, lens.
- lien**, ěnis (n) (cognate with *σπλήν*, spleen) spleen.
- lues**, luis (f) (cf. *λυγρός*, baneful) pestilence, syphilis.
- lumba'go**, ĩnis (f) (fr. *lumbus*, the loin) lumbago.
- opa'cus**, a, um (fr. *ὀπός*, juice) juice colored, opaque.
- op'ticus**, a, um (fr. *ὄπτω*, to see) optic.
- oxal'icus**, a, um (fr. *ὄξαλίς*, sorrel) oxalic.
- pall'idus**, a, um (fr. *pallco*, to be pale) pallid.
- pathet'icus**, a, um (fr. *πάθος*, feeling, emotion, disease) pathetic.
- paucus**, a, um (kindred with *parum*, little) few.
- planus**, a, um (fr. contract. of *placius*, Germ. *platz*, an open place) level.
- posti'cus**, a, um (fr. *postea*, behind) posterior.
- purus**, a, um (fr. a root *pu*, meaning to clean) pure.
- mul'ebri**, e (fr. *mulier*, a woman) belonging to woman.
- nob'ilis**, e (fr. *gnosco*, to know) learned, noble.
- occidenta'lis**, s (fr. *occidens*, setting down of the sun) western.

EXERCISE XXVI.

A. 1. Homo, jecinorem unum, lentes duas, et organa multa habet. 2. Patheticus est nervus quartus

cranii. 3. Pilulae duae ter in die. 4. Lumbago est neuralgia musculorum dorsalium. 5. Nervus opticus est nervus secundus cranii. 6. In cranio sunt ossa octo, in facie quatuordecim. 7. Nervi tertii, quarti et sexti cranii sunt motores oculi. 8. Portio mollis nervi septimi cranialis est nervus auditorius. 9. Peroneus tertius est musculus cruris. 10. Plumbum est metallum grave.

B. 1. Oleoresin of mandrake. 2. In the forearm is the long flexor of the first finger. 3. The eight bones of the carpus. 4. The third bone of the little finger. 5. The plane bone of the orbit. 6. Oxalic acid is bitter. 7. In sour milk there is lactic acid. 8. There are two hundred bones in the body.

CHAPTER XV.

DERIVATION OF ADJECTIVES.

DERIVATIVE adjectives are formed principally from nouns and verbs.

1. *Adjectives derived from nouns are called denominatives*, and are formed by adding suffixes to the stem of the noun.

-eus, a, um, and *-inus, a, um*, denote material or resemblance, like the English suffixes *ous* and *en*.

Examples: *Aureus*, golden, from *aurum*, gold; *piccus*, pitchy, from *pix*, pitch; *adaman'tinus*, adamantine, from *adamas*, adamant.

-a'lis, e; *-a'ris, e*; *-a'rius, a, um*; *-o'rius, a, um*; *-i'lis, e*; *-a'ilis, e*; *-ic'ius, a, um*; *-icus, a, um*; *-ius, a, um*; *-i'nus, a, um*. The above suffixes signify belonging or pertaining to the thing denoted by the noun.

Examples: *Fatalis*, pertaining to the foetus; *alaris*, pertaining to a wing; *salivarius*, pertaining to spittle; *tinctorius*, pertaining to dyers; *senilis*, pertaining to an old man; *saxatilis*, belonging to the rocks; *patricius*, belonging to the father; *pulmonicus*, belonging to a lung; *vesicatorius*, pertaining to a blister; *equinus*, pertaining to a horse.

Observation: The termination *-inus, a, um* belongs especially to animals. Thus, we have *felinus*, feline, cat-like; *elephantinus*, from *elephas*.

-o'sus, a, um; *-len'tus, a, um*, denote abounding in the thing expressed by the noun.

Examples: *Nervosus*, abounding in nerves; *virulentus*, abounding in poison.

-*en'sis, e*; -*a'nus, a, um*, attached to the stems of the names of places, denote belonging to a place.

Examples: *Chinensis*, belonging to China; *Virginianus*, belonging to Virginia.

-*a'tus, a, um*, denotes furnished with the thing designated by the noun.

Examples: *Barbatus*, having a beard; *pinnatus*, having wings; *vertebratus*, furnished with vertebræ; *venenatus*, furnished with poison; *cornutus*, furnished with horns.

2. *Adjectives derived from verbs are called verbals*, and are usually formed by means of the following suffixes:—

-*bundus, a, um*, added to the stem of a verb, has a strengthened meaning of the present participle in *ns*, English *ing*.

Example: From *morior*, to die, we have *moribundus*, about to die, moribund.

-*idus, a, um*; -*uus, a, um*, added to the stems of neuter verbs to denote the quality expressed by the verb.

Examples: From *valeo*, to be of worth, *validus*, of value; from *noceo*, to be harmful, *nocuus*, injurious.

-*ilis, e*; -*bilis, e*, added to the stem of a verb, denote capability or desert.

Examples: From *duco*, to lead or draw, *ductilis*, capable of being drawn; from *retraho*, to retreat, *retractilis*, capable of being drawn back; from *texo*, to weave, *textilis*, capable of being woven; from *volo*, to fly away, *volatilis*, capable of flying away; from *horreo*, to frighten, *horribilis*, capable of frightening.

-*a'tus, -e'tus, -itus, i'tus*, terminations of past participles, equivalent to English -*ed*.

Examples: *Perfero*, to perforate. *perforatus*, perforated; *acco*, to be sour, *acutum*, soured; *soleo*, to

be accustomed, *solitus*, accustomed; *partio*, to divide, *partitus*, divided.

-*ns* is the termination of present participle, English -*ing*; thus, from *repto*, to creep, *reptens*, creeping.

VOCABULARY XXVII.

cosmet'icus, a, um (fr. Greek *κοσμέω*, to adorn) cosmetic.

grac'ilis, e (Sanskrit *gca*, thin) slender, graceful.

gravis, e (cognate with *βαρύς*, heavy) heavy.

iner'mis, e (*in*, without, *arma*, arms) unarmed.

inguina'lis, e (fr. *inguen*, the groin) inguinal.

intercosta'lis, e (from *inter*, between, *costa*, rib) between the ribs.

interspina'lis, e (fr. *inter*, between, *spina*, spine) between the spinous processes.

jugula'ris, e (fr. *jugulum*, the neck) jugular.

lactea'lis, e (fr. *lac*, milk) lacteal.

letha'lis, e (fr. Gk. *λήθη*, the river from which the souls of the dead drank causing them to forget the past) deadly.

mala'ris, e (fr. *mala*, the cheek) malar.

margina'lis, e (fr. *margo*, a border) marginal.

mola'ris, e (fr. *mola*, a millstone) molar (tooth).

morta'lis, e (fr. *mors*, death) deadly.

matu'rus, a, um (kindred with *mater*, mother) ripe.

media'nus, a, um (fr. *medius*, middle) median.

mor'bidus, a, um (fr. *morbis*, a disease) diseased.

novus, a, um (cognate with *νέος*, new) new.

obliq'uus, a, um (from *ob*, against, and a root *lak*, to lean) slanting.

lycopol'dium, i (fr. *λύκος*, a wolf, *πῶς*, foot) wolf's foot.

meco'nium, i (fr. *μήλων*) poppy juice) contents of fœtal intestine.

- membrum**, i (kind. w. *membrana*, a membrane) member.
men'strum, i (fr. *mensis*, monthly purgation) a vehicle
 or solvent.
mollus'cum, i (fr. *mollis*, soft) a mollusc.
momen'tum, i (fr. *moveo*, to move) moving force.
monstrum, i (fr. *monco*, to warn) evil omen; a monstrosity
o'leum, i (fr. *oliva*, olive, fr. which *oleum* was obtained) oil.
crista, æ (fr. same root as *crinis*, hair) crest, topknot.
gallus, i (fr. root *gar*, to call *garlus*) a cock.

EXERCISE XXVII.

A. 1. Epilepsia gravior est morbus horribilis.
 2. Crista galli est pars ossis ethmoidalis. 3. Ossa crania
 immobilia sunt. 4. Tæniæ sunt inermes, nanae,
 latae, et sagittatae. 5. Bubo est inflammatio glandis
 inguinalis. 6. Dosis lethalis opii est de granis tribus ad
 grana viginti. 7. Os malare, dentes molares. 8. Vir est
 homo masculus. 9. Columna spinalis est linea corporis
 mediana. 10. Virus morbidum rabiem caninum causat.

B. 1. In the ovaries there are ovules, in the uterus
 an egg. 2. In morbid poison there are pathogenetic
 bacteria. 3. The external oblique muscle of the abdo-
 men. 4. In the gut of the fœtus there is meconium.
 3. The virile member of a man. 6. Gold and silver have
 I none. 7. Contagious mollusc is a disease of the skin.
 8. Oil of clove and bitter almond. 9. The birth of a
 monstrosity is a cause of tears. 10. Oleo-resin of male
 fern.

CHAPTER XVI.

PRONOUNS.

THE regular third personal pronoun, *is, ea, id, he, she, it*, is seldom used in medical Latin, *idem, eadem, idem*, the same, being preferred.

Idem is declined as follows:—

SINGULAR.

	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	idem	e'aden	idem
<i>Gen.</i>	ejus'dem	ejus'dem	ejus'dem
<i>Dat.</i>	ei'dem	ei'dem	ei'dem
<i>Acc.</i>	eun'dem	ean'dem	idem
<i>Abl.</i>	eo'dem	ea'dem	eo'dem

PLURAL.

	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	ii'dem	ea'e'dem	e'adem
<i>Gen.</i>	eorun'dem	earun'dem	eorun'dem
<i>Dat.</i>	eis'dem	eis'dem	eis'dem
<i>Acc.</i>	eos'dem	ëas'dem	e'adem
<i>Abl.</i>	eis'dem	eis'dem	eis'dem

The relative *qui, quæ, quod*, who, which, is thus declined:—

SINGULAR.

	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	qui	quæ	quod
<i>Gen.</i>	cujus	cujus	cujus
<i>Dat.</i>	cui	cui	cui
<i>Acc.</i>	quem	quam	quod
<i>Abl.</i>	quo	qua	quo

	PLURAL.		
	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	qui	quae	quae
<i>Gen.</i>	quorum	quarum	quorum
<i>Dat.</i>	quibus	quibus	quibus
<i>Acc.</i>	quos	quas	quae
<i>Abl.</i>	quibus	quibus	quibus

The demonstratives *hic*, *haec*, *hoc*, this (near us), and *ille*, *illa*, *illud*, that (yonder), like adjectives, agree with the nouns which they limit in gender number and case. When two things are mentioned *hic* is applied to the latter, and *ille* to the former; thus, *vir et puella, haec est pulchra, ille, fortis*. "The man and the girl, the latter is beautiful, the former brave."

	SINGULAR.		
	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	hic	haec	hoc
<i>Gen.</i>	hujus	hujus	hujus
<i>Dat.</i>	huic	huic	huic
<i>Acc.</i>	hunc	hanc	hoc
<i>Voc.</i>	hic	haec	hoc
<i>Abl.</i>	hoc	hac	hoc

	PLURAL.		
	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	hi	hae	haec
<i>Gen.</i>	horum	harum	horum
<i>Dat.</i>	his	his	his
<i>Acc.</i>	hos	has	haec
<i>Voc.</i>	hi	hae	haec
<i>Abl.</i>	his	his	his

	SINGULAR.		
	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	ille	illa	illud
<i>Gen.</i>	illi'us	illi'us	illi'us
<i>Dat.</i>	illi	illi	illi
<i>Acc.</i>	illum	illam	illud
<i>Voc.</i>	ille	illa	illud
<i>Abl.</i>	illo	illa	illo

	PLURAL.		
	MASCULINE.	FEMININE.	NEUTER.
<i>Nom.</i>	illi	illae	illa
<i>Gen.</i>	illo'rum	illa'rum	illo'rum
<i>Dat.</i>	illis	illis	illis
<i>Acc.</i>	illos	illas	illa
<i>Voc.</i>	illi	illae	illa
<i>Abl.</i>	illis	illis	illis

VOCABULARY XXVIII.

cochlea're, is (n) (fr. Greek *κοχλίας*, a small shell) a shell, a spoon.

princip'ium, i (fr. *primum*, first *capio*, to take) a beginning.

puden'dum, i (future part. of *pudco*, to be ashamed) of which one should be ashamed, genitalia.

punctum, i (fr. *pungo*, to prick) a point.

pyr'ethrum, i (fr. *πῦρ*, fire, fever, *ἐρυθρός*, red) "fever few."

quadriho'rium, i (from *quartus*, a fourth, *hora*, hour) a quarter of an hour.

rectum, i (fr. *rego*, to lead straight) straight, straightgut.

regnum, i (fr. *rego*, to lead) a reign, kingdom.

reme'dium, i (fr. *re*, again, *medeor*, to heal) a remedy.

rheum, i (fr. *Rha*, a name for the river Volga) rhubarb.

rostrum, i (fr. *rodo*, to gnaw or pick) a beak, muzzle.

scammo'nium, i (fr. Greek *σαμμουνία*, bind-weed, from *σάμψος*, crooked) scammony.

scrotum, i (cogn. w. *χόρπον*, a hide) pouch, bag of a male.

matrix, i'cis (f) (fr. *mater*, mother) the nourishing part, womb, root.

mucila'go, inis (f) (fr. *mucus*, Gk. *μῦχος*, mucus) mucilage.

nox, noctis (f) (from Aryan *nak*, destroy; cf. Greek *νύξ*, night) night.

nux, nucis (f) (kind. w. *nutrio*, to nourish) a nut, kernel.

- præpara'tus**, a, um (part. fr. *præparo*, prepare) prepared.
profun'dus, a, um (*pro*, out from, *fundus*, depth) deep.
purifica'tus (fr. *purus*, pure, *facio*, to make) made pure.
quadra'tus, a, um (fr. *quatuor*, four) square.
quantus, a, um (fr. *quam*, as) as much as.
quarta'nus, a, um (fr. *quartus*, fourth) belonging to the fourth day.
quotidia'nus, a, um (fr. *quotidies*, every day) quotidian.
oc'ciput, itis (n) (fr. *ob*, opposite, *caput*, the head) base of the head.
os, oris (f) (fr. Aryan *as*, to live, breathe) the mouth.
orbicula'ris, e (fr. *orbis*, a circle) circular.
orbita'lis, e (fr. *orbita*, the orbit, fr. *orbis*, a circle) orbital.
ova'lis, e (fr. *ovum*, an egg) egg-shaped.
palma'ris, e (fr. *palma*, the palm) palmar.
parieta'lis, e (fr. *paries*, a wall, fr. *pario*, to divide) parietal.
pectora'lis, e (fr. *pectus*, the chest, breast) pectoral.
peren'nis, e (fr. *per*, through, *annus*, the year) perennial, living throughout the years.
planta'ris, e (fr. *planta*, the sole) plantar.
rec'ipe (verb) ((*re*, again, *capio*, to take) take (imperative)

EXERCISE XXVIII.

- A. 1. Recipe cochleare medium cretæ preparatae nocte. 2. Pudenda maris sunt penis, pubes et scrotum. 3. In conjunctiva sunt puncta lachrymalia. 4. Recipe cochleare magnum spiritus frumenti omni quadrihorio. 5. Rectum est pars tertia magni intestini. 6. Saccharum lactis dulce est. 7. In naso est rostrum vomeris. 8. Oleum santali est remedium gonorrhœæ. 9. Mucilago est vehiculum utile. 10. Flexor profundus digitorum est musculus cubiti.

B. 1. The square lobe of the liver. 2. The sick man has a daily fever. 3. The occipital bone is the lowest in the skull. 4. Compound pills of iron are officinal. 5. The circular muscles of the mouth. 6. In the orbit there are sutures, grooves, and fissures. 7. The oval hole of the fetal heart. 8. The long palmar muscle is a flexor. 9. The plantar muscle is a flexor of the toes. 10. The violet and the rose are perennial plants.

CHAPTER XVII.

THE VERB.

A FULL discussion of the Latin verb is a subject outside of the province of this book. We will, accordingly, limit our study to those parts of the verb employed in prescription writing.

In the active voice, the imperative second person singular, and the subjunctive third person singular, are the only parts used.

In the passive voice, the infinitive, the third person singular subjunctive, the gerund or future participle, and past participle, are the only parts employed. For example, take *agita're*, to shake; we may use in the active voice the imperative *agita*, shake (thou), and the subjunctive third person singular, *agitet*, let him shake. In the passive voice we may use the infinitive *agitari*, to be shaken; the subjunctive third person singular, *agitetur*, let it be shaken; the gerund, *agitandus*, *-a*, *-um*, (*est*), it should be shaken; and the past participle, *agitatus*, *-a*, *-um*, shaken.

I. *The Conjugations:* There are four conjugations or methods of inflecting the verb, depending upon the vowel which precedes the ending *re* of the present infinitive active.

Verbs whose present infinitive active ends in:—

- āre, are of the first conjugation.
- ēre, are of the second conjugation.
- ĕre, are of the third conjugation.
- īre, are of the fourth conjugation.

2. *The imperative active second person singular* is used in giving directions to the dispenser, and is formed by dropping the termination *re* of the infinitive.

Examples: Agitā're, to shake (1st conj.) ag'ita, shake (thou).
 Admovē're, to apply (2d conj.) admo've, apply (thou).
 Ad'dē're, to add (3d conj.) ad'de, add (thou).
 Parti're, to divide (4th conj.) parti, divide (thou).

3. *The subjunctive active third person singular* is formed by adding the following terminations to the stem of the verb:—

In the first conjugation, (et), thus, ag'itet, let him shake.
 In the second conjugation, (eat), thus, admovē'at, let him apply.
 In the third conjugation, (at), thus, addat, let him add.
 In the fourth conjugation, (iat), thus, partiat, let him divide.

4. *The infinitive passive* is formed in all conjugations except the third by changing the final *e* of the infinitive active to *i*. Thus, agitari, to be shaken; moveri, to be moved, etc. In the third conjugation the infinitive passive is formed by adding *i* to the root, as addi, to be added.

5. *The passive of the subjunctive third person singular* is formed by adding *ur* to the subjunctive; thus, agitet'ur, let it be shaken, admovēa'tur, let it be applied.

6. *The future passive participle or gerund* is formed in the four conjugations by adding to the stem of the verb, *-andus, -a, -um, -endus, -endus, and -iendus*, respectively; thus, agitandus, about to be shaken, admovendus, etc.

The uses of the different parts of the verb are illustrated in the following prescription:—

Recipe, Pulveris Jalapae compositae unciam,
 Potassii Bitartratis uncias duas.
 Miscē. Ejusdem capiat æger cochleare parvum nocte maneque
 donec anasarca curari videatur, dein præ-
 scribe pilulas ferri compositas quarum duae
 ter in die sumendae sunt.

VERBS OF THE FIRST CONJUGATION.

ACTIVE VOICE.		PASSIVE VOICE.	
Infinit.	Imp. 2d person sing.	Infinit.	Subjunct.
Dare, to give	da, give (thou)	dari, to be given	datur, let it be given
Collare, to strain	cola	colari	colitur
Continuare, to continue	continua	continuari	continuetur
Applicare, to apply	applica	applicari	applicatur
Evaporare, to evaporate	evapora	evaporari	evaporatur
Inhalare, to inhale	inhala	inhalari	inhalatur
Macerare, to macerate	macera	macerari	maceretur
Parare, to prepare	para	parari	paratur
Potare, to drink	pota	potari	potetur
Pulverare, to powder	pulvera	pulverari	pulveretur
Purgare, to purge	purga	purgari	purgatur
Renovare, to renew	renova	renovari	renovetur
Servare, to keep	serva	servari	servetur
Signare, to mark	signa	signari	signetur
Stare, to stand	sta	usurpari	usurpetur
Usurare, to take	usurpa		
			Gerund.
			dandus, about to be given
			colandus
			applicandus
			evaporandus
			inhalandus
			macerandus
			parandus
			potandus
			pulverandus
			purgandus
			renovandus
			servandus
			signandus
			usurpandus

VERBS OF THE SECOND CONJUGATION.

ACTIVE VOICE.		PASSIVE VOICE.	
Infinit.	Imperat.	Infinit.	Subjunct.
Augere, to increase	auge, increase	augeri, to be increased	augeatur, let it be increased
Cavere, to avoid	cave	caveri	caveatur [increased]
Ciere, to excite	cie	cieri	ciatur
Exhibere, to give	exhibe	exhiberi	exhibeatur
Fovere, to foment	fove	foveri	foveatur
Miscere, to mix	misc	misceri	miscetur
Movere, to stir	move	moveri	moveatur
Respondere, to answer	responde	responderi	respondeatur
			Gerund.
			augendus, about to be increased
			cavendus [increased]
			ciendus
			exhibendus
			fovendus
			miscendus
			movendus
			respondendus

VOCABULARY XXIX.

- sebum**, i (Sansk. *stavara*, hard fat) oily secretions of skin.
semicu'pium, i (*semi*, half, *cubo*, to lie down) a half bath,
 hip bath.
septum, i (fr. *scpio*, to fence in) a fence, partition.
seques'trum, i (fr. *sequor*, to follow) a remnant, piece of
 dead bone.
serum, i (cf. ὀρός, serum) watery part of milk or blood.
signum, i (fr. *signo*, to mark) a label, sign.
spectrum, i (fr. *specio*, to look) an image.
sputum, i (fr. *spuo*, to spit) spittle.
stannum, i (*stagnum*, an alloy of silver and lead) tin.
sternum, i (Greek στέρνον, breast-bone) breast-bone.
stib'ium, i (fr. Greek στίμμη, a blacking for eyebrows
 made of antimony) antimony.
ori'go, inis (f) (fr. *orior*, to rise) a rising, origin.
rete, is (n) (cogn. w. σείρά, a rope; old form *srete*) a net.
salix, icis (f) (kindred with *salax*, leaping, from its rapid
 growth) willow.
sapo, ō'nis (m) (kindred with *scbum*, grease) soap.
serpi'go, inis (f) (*serpo*, to creep) a ring-worm.
silex, icis (m) (unknown) flint.
tabes, is (f) (fr. *tabeo*, to waste away) a wasting disease.
coxa, æ (Sansk. *kaksha*, hip) the hip point.
rectifica'tus, a, um (fr. *rectum*, right, and *facio*, to make)
reduc'tus, a, um (fr. *reduco*, to reduce) reduced.
rig'idus, a, um (fr. *rigor*, stiffness from cold) rigid.
rotun'dus, a, um ((fr. *rota*, a wheel) wheel-shaped, round.
sal'i'nus, a, um (fr. *sal*, salt) saline.
sanus, a, um (cognate with σαός, safe) sound, healthy.
sati'vus, ā, um (fr. *sero*, to sow) cultivated.
scale'nus, a, um (fr. Greek σκαληρός, irregular) scalene.

EXERCISE XXIX.

A. 1. Cave ne ferri sulphas admisceatur cum acido tannico. 2. Potet æger poculum aquae calidae bis in die. 3. Foveatur abscessus cum cataplasmati seminum lini. 4. Usurpet æger infusum scammonii dum eodem respondeat. 5. Misce unciam tincturae opii cum unciis tribus linimenti saponis. 6. Signa, "Admoveatur in puncto inflammationis." 7. Removeat chirurgus sequestrum ex osse. 8. Vomer et cartilago triangularis septum nasi formant. 9. In retinis oculorum spectrum formetur. 10. Adhibe emplastrum sinapis ut rubor cutis cieatur.

B. 1. The expectoration in phthisis is purulent. 2. The origin of the cranial nerves is in the brain. 3. The circular muscle of the mouth is a sphincter. 4. The pancreas is a racemose gland. 5. Salicylic acid is in the willow. 6. Apply soap liniment to the swelling. 7. Excite vesication over the hip by plaster of Spanish fly. 8. Purge the sick man with calomel and jalap. 9. Mix an ounce of tincture of aconite with five ounces of chloroform liniment. 10. Let the same stand, and mark, "To be applied on the skin."

The future past participle with *est* is often used with an imperative signification. The *est* is seldom expressed. Thus, we write, "*Fiat massa in pilulas duodecim dividenda*" (*est*), "Let there be made a mass to be divided into twelve pills."

The *ablative absolute* is sometimes used in prescription writing. Thus, "*Eodem decocto, cola et adde liquoris ammoniæ uncias duas*," "After this (same) has been boiled down, strain and add two ounces of solution of ammonia."

VERBS OF THE THIRD CONJUGATION.

ACTIVE VOICE.		PASSIVE VOICE.	
<i>Imp. 2d person sing.</i>	<i>Subj. 3d person sing.</i>	<i>Infinit.</i>	<i>Subjunct.</i>
<i>Infinit.</i> Addere, to add	addat, let him add	addi, to be added	addatur, let it be
Bibere, to drink	bibat	bibi	bibatur [added]
Capere, to take	capiat	capi	capitur
Colluere, to wash	colluat	collui	colluatur
Concutere, to shake	concutiat	concuti	concutiatur
Contundere, to bruise	contundat	contundi	contundatur
Coquere, to cook	coquat	coqui	coquatur
Digerere, to digest	digerat	digeri	digeratur
Dividere, to divide	dividat	dividi	dividatur
Exprimere, to press out	exprimat	exprimi	exprimatur
Extrahere, to draw out	extrahat	extrahi	extrahatur
Facere, to make	faciat	faci	fiat
Mittere, to send	mittat	mitti	mittatur
Ponere, to place	ponat	poni	ponatur
Solvere, to dissolve	solvat	solvi	solvatur
Sumere, to take	sumat	sumi	sumatur
Terere, to rub	terat	teri	teratur
Urere, to burn	urat	uri	uratur
Recipere, to take	recipiat	recipi	recipiatur
Vomere, to vomit	vomat	vomi	vomatur
			Gerund.
			addendus, about to be
			bibendus [added]
			capendus
			colluendus
			concutendus
			contundendus
			coquendus
			digerendus
			dividendus
			exprimendus
			extrahendus
			faciendus
			mittendus
			ponendus
			solvendus
			sumendus
			terendus
			urendus
			recipiendus
			vomendus

VERBS OF THE FOURTH CONJUGATION.

ACTIVE VOICE.		PASSIVE VOICE.	
<i>Imperat.</i>	<i>Subjunct.</i>	<i>Infinit.</i>	<i>Subjunct.</i>
<i>Infinit.</i> Deglutire, to swallow	deglutiat	deglutiri	deglutiat
Dormire, to sleep	dormiat		
Haurire, to drink	hauriat	hauriri	hauriatur
Partire, to divide	partiat	partiri	partiat
			Gerund.
			deglutiendus
			hauriendus
			partiens

VOCABULARY XXX.

talis, e, such a, such.

stramo'nium, i (fr. root *stra*, strew; cf. *strages*, slaughter) poison thornapple.

stratum, i (fr. *sterno*, to lay down) a layer.

succeda'neum, i (from *sub*, under, after, *cedo*, to follow) a substitute, successor.

suc'cinum, i (fr. *succus*, juice, supposed source) amber.

supercil'ium, i (fr. *super*, over, *cilium*, eyelash) eyebrow.

tanace'tum, i (corrupted fr. *ἀθανάσια*, immortality) tansy.

tig'lium, i, croton plant.

trih'o'rium, i (*tres*, three, and *horac*, hours) three hours.

trios'teum, i (from Greek *τρεις*, three, *ὀστέον*, bone, from form) fever root.

trit'icum, i (fr. *tero*, to thresh) wheat, dog grass.

tym'panum, i (Greek *τύμπανον*, a drum, from *τύπτω*, to strike) drum of ear.

infans, i (*in*, not, *fans*, speaking) infant.

tempus, ōris (n) (fr. root *tem*, to cut) time; the temple; the fatal spot.

tendo, inis (m) (fr. *tendo* (v.) to stretch) a tendon.

testu'do, inis (f) (fr. *testa*, a shell) tortoise; scalp tumor.

sciat'icus, a, um (fr. Greek *ἰσχιατικός*, belonging to thigh.)

sclero'ticus, a, um (from Greek *σκληρός*, hard) hard membrane of the eye.

serra'tus, a, um (fr. *scerra*, a saw) saw-toothed, serrated.

siccus, a, um (cf. *sitio*, to be dry) dry.

sol'idus, a, um (fr. *solum*, the ground) solid.

somnif'erus, a, um (fr. *somnus*, sleep, *fero*, to bring) sleep bringing.

spu'rius, a, um (kindred with *σπορά*, scattering seed) illegitimate, adulterated.

sublima'tus, a, um (fr. *sublimo*, to raise up) sublimated.

surdus, a, um (fr. *sordidus*, dirty, dirt in ears) deaf.

pluvia'lis, e (fr. *pluvia*, rain) belonging to rain.

pocula'ris, e (fr. *poculum*, a cup) cup-like.

pola'ris, e (cf. Greek *πόλος*, a pivot) polar.

o'pium, i (Greek *ὄπιον*, poppy juice) opium.

pons, pontis (m) (cogn. with *πάτος*, a path) a bridge.

præpu'tium, i (from *præ*, before, *ποσθίον*, foreskin, first found in Satires of Juvenal) foreskin.

præscrip'tio, ð'nis (f) (from *præ*, before, *scribo*, to write) prescription.

EXERCISE XXX.

A. 1. Recipe magnesiî sulphatis drachmas duas, et pulveris glycyrrhizæ drachmam unam. 2. Fiant chartulæ sex. 3. Signa, "Sumat æger unam bis in die." 4. Urat asthmaticus folia stramonii et tabaci. 5. Oleum tanaceti est medicamentum abortifaciens. 6. Recipe florum sambuci libras duas, coque in aquae octoriis quatuor, foveantur eodem decocto sæpius in die, caput, facies, oculi, aliæque partes, erysipelate tentatae. 7. Oleum tiglii est catharticum drasticum. 8. Recipe codeinae grana sex, extracti hyoscyami grana quatuor, camphoræ monobromatae grana duodecim, tere et commisce, fiat massa. 9. Eadem in pilulas decem partienda est. 10. Signa, "Degluiat ægra unam earundum omni bihorio donec dormiat."

B. 1. The tendon of Achilles is the strongest cord of the body. 2. The sciatic nerve is the seat of disease. 3. The sclerotic covering of the eye is white and hard. 4. The great serrated muscle of the trunk. 5. Let the patient (*æger*) drink an ounce of whisky. 6. Let him swallow warm water with mustard until he vomits. 7. Take of chalk mixture and of paregoric an ounce. 8. Mix together and mark, "Shake, and let the infant (*infans*) take a teaspoonful every three hours." 9. Put a mustard plaster over his stomach. 10. Give him a quarter of a grain of morphine.

CHAPTER XVIII.

ADVERBS.

ADVERBS may be divided into two classes, *primitive* and *derivative*.

I. The *primitive* adverbs are few in number, and in many cases are cognate with prepositions, or with slight changes are employed as prepositions.

The following are the principal primitive adverbs:—

ante (kindred with Gk. *ἄντεα*, before) before.

cras (ety. unknown) to-morrow.

dein, thereupon.

heri (cf. *hestertus*, of yesterday, Ger. *gestern*) yesterday.

ibi (cf. *is*) there.

in'terim (cf. *inter*, between) meanwhile.

ita (cf. *ista*, that) so.

juxta (cf. *jungo*, to join) near by.

jam (cf. German *ja*) already.

nunquam (*ne*, not, *usquam*, ever) never.

nunc, (*num-cc*) now.

postea (fr. *post*, after) afterward.

quum (allied to *qui*, which) when.

satis (unknown) enough.

sic (fr. *si*, if) so.

tunc (*tum-cc*) then.

ubi (analogue of *ibi*) where.

vix (fr. root *vig*, strength) requiring strength; hardly.

II. *Derivative adverbs* are usually formed from nouns or adjectives.

1. *Adverbs are derived from nouns:*

(a) By adding the suffix *im* or *atim* to the stem, thus forming adverbs of manner.

Examples: From *status*, a standing point, we have *statim*, from the place where one stands, immediately; from *gradus*, a step, *gradatim*, by steps, gradually; from *gutta*, a drop, *guttatim*, by drops, drop by drop.

(b) The ablative case of many nouns is used adverbially. Thus we have *mane*, in the morning, (nom. wanting); *nocte*, at night, from *nox*; and *hodie*, to-day, from *hoc die*, on this day.

2. *Adverbs are derived from adjectives:*

(a) By adding *e* to the stem of the adjectives.

Examples: From *cautus*, careful, we have *caute*, carefully; from *jucundus*, pleasant, we have *jucunde*, pleasantly; from *plenus* full, we have *plene*, fully, from *sæpis*, frequent, we have *sæpe*, often. In a few instances the vowel of the adverbial stem differs from that of the adjective; thus we have *bene*, well, from *bonus*, an old form of *bonus*, good.

(b) The ablative case, masculine, of some adjectives, is used adverbially.

Examples: From *citus*, quick, we have *cito*, quickly; from *creber*, frequent, *crebro*, frequently; and from *tutus*, safe, *tuto*, safely.

VOCABULARY XXXI.

unguen'tum, i (fr. *un'gere*, to anoint) ointment.

vac'uum, i (fr. *vacuus*, empty) an empty space.

velum, i (*velulum*, fr. *ve'here*, to carry) a sail, veil.

vene'num, i (cf. Sansk. *vasha*, and Latin *virus*) poison.

vera'trum, i (cf. *veratrix*, a soothsayer) soothsayers' plant, hellebore.

vinum, i (cognate with *οἶνος*, wine) wine.

borboryg'mus, i (fr. Greek *βοβορῶζω*, to have a rumbling of bowels) rumbling of bowels.

pruri'tus, ūs (fr. *prurio*, to itch) itching.

intro'itus, ūs (m) (fr. *intro*, within, *ire*, to go) entrance.

ulcus, cēris (n) (cognate with Greek ἔλκος, a wound) ulcer.

varix, icis (m) (fr. *varus*, stretched or bent) dilated vein.

venter, tris (m) (cognate with ἔντερον, intestine) belly.

venus, nēris (f) (*Venus*, the goddess of love) sexual love, copper.

vertex, icis (m) (fr. *verto*, to turn) the turning point, top.

verti'go, inis (f) (fr. *verto*, to turn or reel) dizziness.

viscus, ēris (n) (cf. ἴσχω, to hold) a vital organ.

vox, vocis (f) (*voco*, to call, Gk. ὄψ, voice) voice. a word.

vulnus, nēris (n) (cf. ἔλκος, a wound) a wound.

incis'io, ō'nis (f) (*in*, into, *caedo*, to cut) incision.

porten'sis, e (fr. Portuguese city, *Oporto*) Port.

potentia'lis, e (fr. *potesse*, to be able) potential.

praten'sis, e (fr. *pratun*, a meadow) growing in meadows.

puerpera'lis, e (fr. *puer*, a boy or child) child-bed (adj.)

pyramida'lis, e (fr. πυραμίδας, a pyramid) pyramidal.

radia'lis, e (fr. *radius*) radial.

rena'lis, e (fr. *ren*, a kidney) renal.

renifor'mis, e (fr. *ren*, a kidney, and, *forma*, form) kidney-shaped.

semiluna'ris, e (from *semi*, half, *luna*, moon) half moon-shaped.

semina'lis, e (fr. *semen*, seed) seminal.

ses'silis, e (fr. *sedeo*, to sit) without a stem.

spina'lis, e (fr. *spina*, a thorn) spinal.

spira'lis, e (fr. Greek σπειρα, a coil) spiral.

ster'ilis, e (Greek στεῖρός, hard, barren) unfruitful, barren

mons, montis (fr. root *min*, to jut) mountain, hill.

morsus, ūs (fr. *mordeo*, to bite) a biting, muzzle, grip.

diab'olus, i (fr. Gk. διαβόλλω, to scheme) schemer, devil.

EXERCISE XXXI.

A. 1. Curare tuto, cito, et jucunde, est ars medica. 2. "Ubi pus, ibi incisio," dicit chirurgus. 3. Recipe magnesii carbonatis drachmas duas. 4. Adde gradatim et guttatim olei cinnamomi drachmam unam. 5. Tere bene et caute, tunc infunde aquae destillatae octarios duos. 6. Mons Veneris et introitus vaginae sunt partes pudendorum feminae. 7. Morsus diaboli est nomen extremitatis fimbriatae tubi Fallopiani. 8. Ulcus perforans calcis morbus rarus est. 9. Jecur, lien et capsulae suprarenales viscera abdominis sunt. 10. Pulsus causatur ab actione cordis.

B. 1. The renal veins are larger than the renal arteries. 2. The semilunar cartilages of the knee-joint. 3. The "little seminal bladders" are receptacles of the spermatic fluid. 4. Let the sick man take a dose of castor oil to-morrow morning. 5. A uterine tumor without a pedicle. 6. Loss of blood causes dizziness. 7. Ointment of mercury for groin lice. 8. There is no air in a vacuum. 9. Shake well together and let it stand until to-morrow morning. 10. In the brain there is an interposed veil.

CHAPTER XIX.

PREPOSITIONS.

PREPOSITIONS may be divided into three classes, according to the cases which they govern.

I. Prepositions followed by the accusative.

ad (in composition, *ac, af, al, am, ar, at*) to, toward.

Afferent.

ante (cogn. with ἀντί) forward, before. *Anteflexion.*

circum (Sanskrit *kakras*, a ring) around, about.

Circumflex.

contra (English *counter-*) against, opposite. *Contra-indication.*

extra (fr. *extera*) outside of, without, beyond. *Extravasation.*

infra (fr. *infera*) below, beneath. *Infrascapular.*

inter (*intus*, in composition *intro*) between, among.

Intervascular.

per* (Greek *παρά*, in comp. *pel*) through. *Perforans.*

post (allied to *pono*, to place) after, behind. *Posthumous.*

præter (fr. *præ*, before) past, besides. *Præternatural.*

propter, on account of.

secundum (*secundus*) according to.

supra (fr. *super*) above, over. *Suprascapular.*

trans (Sansk. *te*, in comp, *tra*) across. *Transmit.*

ultra (cf. *ultimus*) beyond. *Ultramarine.*

II. Prepositions governing the ablative.

a, ab or abs (Greek ἀπό) away, from, by. *Abscess.*

cum (in composition *con, col, cor, cop*) with, together.

Concede.

* *Per*, in composition meaning intense or excessive, is akin to the Sanskrit *para*, much. Thus, *pertussis, perchloride*, mean, etymologically, a severe cough, a great chloride.

de, from, away, concerning. *Deport*.
e, ex (Greek ἐξ) out of, out, except. *Express*.
præ (Greek πρὸ, in comp. *præ*, before. *Prefer*.
pro (Greek πρὸ) before, forward. *Process*.
sine (cf. *sino*, to desist) without. *Sinecure*.

III. Prepositions governing the accusative after verbs of motion and the ablative when denoting location.

in* (in comp. *il, im, ir*) into, in; *un*, against. *Infer*, incomplete.

sub † (in comp. *suc, suf, sur, sus*) under, near, somewhat. *Subclavian*.

subter (fr. *sub*) down under. *Subterfuge*.

super (Greek ὑπέρο) over, above, excessive. *Superfétation*.

The following prepositions are used in composition only:—

amb, ambi (cf. Greek ἀμφί) on both sides. *Ambidextrous*, literally, right-handed on both sides.

di, dis (cf. Greek διά) apart, *un-*. *Divide*, from *dis*, apart, *vido*, to see. *Disease*.

re, again, back. *Relapse*; *remedy*, to heal again.

retro, behind. *Retro-pharyngeal*, behind the pharynx.

se (*seco*, to divide) apart. *Seclude*.

It is quite important that the student learn the exact meanings of prepositions. Although not much employed separately, they are of very frequent occurrence in the composition of medical terms.

* *In*, as a negative prefix, is a different word entirely from the preposition *in*. The former is akin to the Greek *anēn*, without, and English *un*, while the latter is cognate with the Greek *en* and *eis*, in and into.

† *Sub* often has the signification of English *ish*. Thus, *subflava*, somewhat yellow, *yellowish*. A *subluxation* is not a luxation downward, but "somewhat of a luxation," a partial luxation or sprain.

VOCABULARY XXXII.

- luxa'tio** o'nis (f) (fr. *luxo*, to dislocate) dislocation.
quantus, a, um, how much; as much as.
tantus, a, um, so much.
tep'idus, a, um (fr. *tepeo*, to be warm) tepid, lukewarm.
tertia'nus, ā, um (fr. *tertius*, third) belonging to third day.
trigem'inus, a, um (fr. *tres*, three, *geminus*, a twin) triplet.
ustus, a, um (fr. *uro*, to burn) burnt.
varus, a, um (kindred with *verto*, to bend) bandy-legged,
 bow-legged.
verus, a, um (cf. German *wahr*) true, real.
semis'sis, e (fr. *semi*, half) half.
suavis, e (cogn. with ἡδύς, sweet) pleasant.
talis e (cf. *tam*, as) such.
tempora'lis, e (fr. *tempus*, temple) belonging to the temple.
therma'lis, e (fr. Gk. θερμός, heat) pertaining to hot baths.
transversa'lis, e (*trans*, across, *verto*, to turn) transverse.
trifacia'lis, e (*tres*, three, *facies*, face) trifacial.
mediasti'num, i (*medius*, middle) middle space of thorax.
nu'bilis e (fr. *nubes*, a cloud or veil) fit to be veiled, *i. e.*
 marriageable.
pal'pebra, æ (fr. *palpo*, to stroke, caress) eyelid.

EXERCISE XXXII.

- A. 1. Recipe tantam aquam tepidam quantam sufficit. 2. Recipe olei Ricini unciam cum semisse. 3. Nervi trigemini sunt par quintum cranii. 4. In abdomine sunt intestina magna et parva praeter organa alia. 5. Supraspinatus et infraspinatus sunt musculi scapulares. 6. Dicit Hippocrates, "Femina nunquam ambidextra est." 7. Recipe hydrargyri cum creta unciam. 8. Divide in chartulas numero viginti. 9. Liquor synovialis circum artus est. 10. In pariete

abdominis anteriore sunt musculi recti, obliqui et transversales praeter musculum pyramidalem.

B. 1. The trifacial is the sensory nerve of the face and head. 2. Also the motor nerve of the lower jaw. 3. The physician treats the patient according to art. 4. Take of saccharated pepsin three drachms and a half. 5. Divide into twelve powders. 6. Mark, "One to be taken immediately after food. 7. Scrofula and hip-joint disease are often (*sæpe*) tubercular. 8. Under the circular muscle of the eyelids is the "over-the-orbit" nerve. 9. The fever and the emaciation go with equal step. 10. According to law a girl is marriageable at the age of puberty.

CHAPTER XX.

CONJUNCTIONS.

IN the following list will be found the principal conjunctions used in medical Latin.

ac, atque, and	postquam, after
aut, or	quam, than
aut—aut, either—or	quasi (<i>quam si</i>) as, if
autem, but	-que, and
donec, until	quia, because
dum, while	quoad, as long as
et, and	quoque, also
et—et, both—and	sed, but
etiam, also	si, if
ergo, therefore	ut, in order to
nec—nec, neither—nor	-ve, or
	vel, or

Que is attached to the latter of two words of similar construction to denote that they are co-ordinate; thus *levator labii superioris alaeque nasi*, "the lifter of both the upper lip and wing of nose. *Levator labii superioris et alae nasi*, would mean, "the lifter of the upper lip and the sides of nose."

Dum, donec, quia, quoad, and ut, are followed by the subjunctive.

VOCABULARY XXXIII.

- comes,** itis (m) (fr. *cum*, write, *ire*, to go) companion.
hallux or **hallex,** icis (m), the great toe.
medica'trix (id.) (adj.) (*medeor*, to cure) healing.
pes, pedis (m) (cognate with *πῶς*, foot) foot.

pollex, ĩcis (m) (from *polleo*, to be strong like *Pollux*, the wrestler) thumb or great toe.

pulvis, ěris (m) (kind. w. *πῦλξ*, fine meal) dust, powder.

pulvi nar, na'ris (n) (fr. *pulvinius*, an elevation) a pillow.

stercus, ōris (n) (cf. *tergeo*, to wipe off, cogn. with English *turd*) excrement.

tal'ipes, ědis (m) (fr. *talus*, ankle, *pes*, foot) club-foot.

unguis, (id.) (m) (cogn. with *ὄζυος*, a hook) a finger-nail.

valgus, a, um (cf. *ἄλγος*, pain) knock-kneed.

ventra lis, e (*venter*, belly) belonging to belly.

versic'olor (id.) (adj.) (*verso*, to change, *color*, color) variegated.

viab'ilis, e (from French *vie*, life, able to live, or from *via*, a road, journey) able to move, quickened.

vir'idis e (fr. *virco*, to be green) green.

verru ca, æ (fr. *verres*, a boar) a wart or excrescence seen on hogs.

poples, ĩtis, the ham strings.

porri'go, ĩnis (f) (from *pro*, forth, *rego*, to extend, spread out) dandruff, tinea capitis.

vicis (gen., no nom.) (f) (Aryan root *vik*, yield) a change, period, time.

vica'rius, a, um (fr. *vicis*, change) substituted, exchanged.

villus, i (Aryan root *var*, to cover) shaggy hair.

EXERCISE XXXIII.

A. 1. Post hoc vel cum hoc ergo propter hoc est argumentum medicorum. 2. "Ubi tres medici ibi duo atheistes." 3. Vis medicatrix naturae est remedium potentiale. 4. Pollex pedis est hallux vel digitus maximus. 5. Arteria femoralis venas comites habet, sed aorta earundem nullas habet. 6. Puer talipedem equinum habet. 7. Vomitus stercoris signum ilei est. 8. Si herniam umbilicalem infans habeat, tunc admoveatur

emplastrum picis. 9. Vertebra prominens est septima cervicis vertebrarum. 10. Pityriasis versicolor est morbus communis.

B. 1. In the fourth month the fœtus is viable. 2. Veratrum (green) is a poison. 3. Arsenic is an apparent metal, so also is hydrogen. 4. There is sometimes vicarious menstruation. 5. Repeat this prescription twice (two times). 6. Knock-knee club-foot is not so common as bow-leg club-foot. 7. The crown of Venus was on the head of George the Third. 8. The recurrent tibial artery. 9. Antimony or *stibium* is poison. 10. If there is vomiting of excrement he will die.

CHAPTER XXI.

PRESCRIPTION WRITING.

IN nearly all countries where a real science of medicine exists, Latin is the language employed in the writing of prescriptions. European practitioners are almost uniformly men of high classical training, and are able to use the language correctly, but in America the majority of medical students have had no experience whatever in Latin composition. Even in our literary colleges of late, the classics have been crowded out to make room for a score of sciences of which the student acquires a very superficial knowledge, so that the modern college graduate excels in nothing, and at the same time has lost a golden opportunity to familiarize himself with the ancient languages which are the basis of scientific nomenclature.

In the United States prescriptions are usually written in a language called by courtesy Latin, although we very much doubt whether a Cicero or Horace would ever suspect that the conglomerations of abbreviated medical terms which are sent to our drug stores were specimens of their native tongue.

A very little thought and study will enable the intelligent student to master the art of prescription writing. If he finds himself unable to do this, we would advise him to employ the English language exclusively, or better still, to give up all thoughts of becoming a physician.

In Europe, especially in medical publications, it is customary to write the entire prescription, directions to the patient included, in Latin. But there is now a ten-

dency, and we think a wise one, to write the directions to the patient in the vernacular language. Any one who has attempted to translate French prescriptions, in which Latin is not used, has realized the great difficulty in arriving at their meaning even with the aid of the best dictionaries. The Latin names of drugs, however, are quite uniform throughout Europe and America, and the prescriptions found in English medical books and periodicals can be understood in almost any country. Latin names, moreover, are specific and exact, rendering mistakes impossible. If, for example, a physician ordered *snake root*, either *Polygala senega*, *Aristolochia serpentaria* or *Cimicifuga racemosa* might be understood. But the pharmacopœial terms *Serpentaria*, *Senega*, and *Cimicifuga* are restricted to particular preparations.

The word *prescription* is derived from the Latin *præ*, before hand, and *scribere*, to write, and signifies the written directions of a physician or surgeon for the preparation and use of a medicine or other means of cure. A physician may prescribe change of climate or blood-letting. When the apothecaries consulted the physicians about their patients, prescriptions like the following were often given:—"Emitte sanguinis uncias sedecim saltem, vel ad deliquium; draw at least sixteen ounces of blood, or until fainting is produced;" or "*Ad recidivium præcavendum, detrahatur sanguis pro re nata*; to prevent a relapse, let blood be drawn occasionally."

A *formula*, (dim. of *forma*, a rule) is a written direction for preparing and using a pharmaceutical remedy, being more limited in its application than the word *prescription*.

Formulæ are of two kinds, *extemporaneous* or *magistral*, and *officinal*. *Magistral formulæ* are so called because they are constructed by the physician, who is supposed to be a master (*magister*) of his art, on the

instant, (*ex tempore*). *Officinal formulæ* are so designated because they are published in the pharmacopœias and are supposed to be kept ready for use in the apothecary shop (*officina*).

Furthermore formulæ may be either *simple* or *compound*. A *simple formula*, (*formula simplex*) contains but a single ingredient, while a *compound formula* (*formula composita*) contains two or more.

I. The Parts of a Prescription or Formula.

1. In this country it is usually customary to begin a prescription with *the name of the patient and the date*, although the majority of the books recommend that these be placed last or next the physician's name.

2. *The heading*. In primitive societies the priest and the physician were one and the same man. When acting in his medical capacity no cure was ever undertaken without first invoking the assistance of the gods, a custom still in vogue among the Brahmins and Mohammedans. Prescriptions were begun with a prayer and at a later period when medicine had become distinct from theology, it was deemed sufficient to place the sign of the chief of the gods, Jupiter, (\mathcal{J}) at the beginning of the parchment. Whenever a metal which was supposed to be the property of any particular deity was prescribed, it was thought that the medicine would act with greater certainty and power if the symbol of the god were used instead of the name of the drug. Thus:—

☾ the new moon, the symbol of Diana, was written for *silver*.

♀ the mirror of Venus, for *copper*.

♁ the shield and spear of Mars, for *iron*.

♄ the sickle of Saturn, for *lead*, etc.

At present the heading of a prescription is \mathfrak{R} , a symbol composed of the first letter of *Recipe*, *R*, and the sign of Jupiter, the king of the gods (\mathcal{J}). This is about the only relic in modern medicine showing that in ancient times medicine was practiced only by the priesthood, but, nevertheless, a relic quite as suggestive as the hairy point sometimes seen on the helix of the human ear, which Darwinians tell us proves that the ancestors of mankind were monkeys.

3. *The names and quantities of the ingredients.*
The name of each ingredient should be in a line by itself. The ingredients should be placed in the following order:—

- (a) The *basis*, or principal drug.
- (b) The *auxiliary* or *adjuvant*, which is supposed to assist the action of the basis.
- (c) The *corrective*, which removes or corrects some objectionable quality of the basis or adjuvant.
- (d) The *vehicle*, which gives a proper form to the whole and serves as a means to convey it into the system.

After the name of each ingredient, in the same line, are placed the symbols denoting the quantities required. The following symbols and abbreviations are now used:—

C for *Congius*, a gallon.

O for *Octarius*, an *eighth* of a congius, a pint.

\mathfrak{z} for *uncia*, an ounce.

\mathfrak{d} for *drachma*, a drachm.

gr. for *granum*, or *grana*, grain or grains.

\mathfrak{m} for *minimum*, a minim, or $\frac{1}{60}$ of a drachm.

In prescribing fluids, *f*, for *fluidum*, is sometimes placed before the symbol designating the quantity,

although this is not necessary. ℥ , the sign for *scrupulum*, will be found in the books, but is now seldom used in prescriptions, all weights being expressed in ounces, drachms and grains. It will be observed that many of these symbols are mere abbreviations. The signs for ounce, drachm, and scruple, however, are modeled after those employed by the Arabic alchemists.

The number of ounces, drachms, and grains is expressed by means of the Roman letters i, ii, iii, iv, v, vi, etc., but fractions of grains and minims, with the exception of one-half, which is written *ss*, an abbreviation of *scmissis*, half, are usually expressed by the Arabic numerals; thus, gr. $\frac{1}{4}$, a quarter of a grain, $\text{℥}\frac{1}{25}$, a twenty-fifth of a minim.

With regard to the *grammatical construction* of this portion of a prescription it may be stated as a rule that the names of the ingredients in all *compound* formulæ should be put in the genitive case* after the quantities which are in the accusative case governed by *recipe*. Take for example:—

℞ Quininx Sulphatis ℥j.
 Extracti Gentianæ gr. xxx.
 Fiat Massa in pilulas xxx dividenda.

In *simple* formulæ, however, in which the ingredient is not weighed or measured, but counted, as is the case with pills, troches and suppositories, the name of the ingredient is put in the accusative case. Thus we may write:—℞ *Pilulas ferri compositas* xii, "take twelve compound pills of iron," not ℞ *Pilularum ferri compositarum* xii.

* When *q. s. ad, quantum sufficiat ad* is employed after the name of the last ingredient, the genitive is used. If, however, *ad* is used and the *q. s.* is omitted, the name of the ingredient should always be put in the accusative. Thus we may write:—*Aque q. s. ad unciam*, as much of water as may be needed up to an ounce, or *aquam ad unciam, aquam* being in the accusative governed by *recipe*, while the quantity, *unciam*, is in the accusative governed by the preposition *ad*.

It is customary with physicians to abbreviate the names of drugs used in prescriptions, partly to save time and space, but largely to cloak their ignorance of Latin grammar. When Pompey was about to consecrate a temple to Victory a dispute arose as to whether the inscription should read "*Consul Tertio*" or "*Consul Tertium*," and it was finally decided to leave the matter open for discussion by writing "*Consul Tert.*" Physicians now adopt the same plan, "when in doubt, abbreviate." But the practice is objectionable and sometimes dangerous. Pareira mentions a case in which *hydrocyanic* acid was dispensed for *hydrochloric* acid in a prescription reading *Acid hydroc. Aqua fortis* has been given for *aqua fontis*, and the abbreviation *hydr.* may mean *hydrargyrum*, *hydras*, *hydriodas*, *hydrochloras*, *hydrochloricum*, *hydrocyanicum*, etc. The following rules may be laid down to govern the student in writing the names of ingredients:—

(a) The orthography should be that which is customary.

(b) Abbreviations should be employed sparingly and with great caution, if at all.

(c) Symbols and signs should be carefully made.

(d) The ingredients should be designated by their pharmacopœial names.*

(e) Designate weights in Troy grains, ad avoirdupois ounces and pounds.

* The courts have decided that a physician violating this rule is guilty of contributory negligence in case the dispenser makes a serious error. If, for example, a physician prescribes *Hydrarg. Chlorid.*, intending *Hydrargyri Chloridum Mite*, and the druggist dispenses *Hydrargyri Chloridum Corrosivum*, both physician and druggist could be convicted of manslaughter if the error should cause the death of a patient.

In a file of prescriptions recently examined by the writer the following violations of this rule were observed:—*Sol. Fowler*, for *Liquor Potassii Arsenitis*; *Hux. Tinc.*, for *Tinctura Cinchonæ Composita*; *Chloric Ether*, for *Spiritus Chloroformi*; *Aq. Lima* (?) for *Liquor Calcis*; *Trotch. Pot.*, for *Trochisci Potassii Chloratis*; and *Puly. Doveri*, for *Pulvis Ipecacuanhæ et Opii*.

In the same lot of prescriptions was one calling for calomel in an aqueous solution.

(f) Designate measures in minims, fluidrachms, fluidounces, and pints, using the Roman letters instead of Arabic numerals.

4. *The directions to the compounder.* These should always be written in Latin. They declare the manner in which the prescription is to be prepared and delivered. The verbs used are in the imperative mood, as *coque misce*, boil, mix; the subjunctive present active or passive, *dividat, dividatur*, let him divide, let it be divided, or the future passive participle in *dus*. In the following sentence the three modes will be found: "*Com-misce bene ut fiat massa (quæ) in pilulas duodecim divi-denda (est)*"; Mix well together in order that a mass may be made, which is to be divided into twelve pills."

5. *The directions to the patient.* These are preceded by the word *Signa*, or the abbreviation *Sig.*, being the imperative mood of the verb *signare*, to mark. After this should be written in English the exact method in which the patient is to use the medicine, if you would avoid the risk of having suppositories swallowed and lotions injected.

When poisonous drugs, especially those to be used externally, are prescribed, it is well to have the bottle marked "*Poison*," but where the medicine is to be used internally, this would sometimes cause unnecessary anxiety.

In the examples of prescriptions which follow, Latin is employed in giving the directions to the patient, not that this is advisable, but that the student may become familiar with this custom, thus enabling him to understand the prescriptions found in many foreign works.

6. *The name and address of the prescriber* should be placed at the end of all prescriptions. In some countries no prescription will be compounded unless thus signed.

In order to illustrate the foregoing principles, we give the following example of a prescription:—

- | | |
|--|---|
| (1) <i>Address and date.</i> | (1) For Mrs. Sarah Jones. |
| (2) <i>Heading.</i> | (1) January 30, 1888. |
| (3) <i>Name and quantities of ingredients.</i> | (2) ℞ (3) Liquoris Ammonii Acetatis (a) ℥j. |
| (a) <i>Basis.</i> (b) <i>Adjuvant.</i> | Vini Antimonii (b), ℥ivss. |
| (c) <i>Corrective.</i> (d) <i>Vehicle.</i> | Tincturae Cardamomi Compositae (c), ℥j. |
| (4) <i>Directions to compounder.</i> | Aquæ Menthæ Piperitæ (d) ℥iss. |
| (5) <i>Directions to patient.</i> | (4) Fiat mistura. Signa: (5) Cujus cochleare parvum in cyatho aquæ omni semihorio sumendum. |
| (6) <i>Name and address of prescriber</i> | (6) JOHN PHYSICK, M. D.,
No. 18 Brown Street. |

There are many terms peculiar to the language of prescriptions which are often abbreviated. In the following list the principal of these will be found:—

LATIN.	ABBREVIATION.	ENGLISH.
Absente febre	absent. febr.	fever being absent
Ad libitum	ad lib.	at pleasure
Adstante febre	adst. febr.	fever being present
Adde or addatur	add.	add
Alternis horis	altern. horis	every other hour
Ampulla, æ	ampull.	a large bottle
Ana	ãã	of each
Aqua adstricta	aq. adst.	ice
Aqua bulliens	aq. bull.	boiling water
Aqua communis	aq. com.	common water
Aqua pluvialis	aq. pluv.	rain water
Bis in dies	bis in d.	twice a day
Bulliat	bull.	boil, or let it boil
Cum	c.	with
Capiat	cap.	let the patient take
Cochleare amplum vel magnum	coch. amp. vel mag.	a tablespoon.
Cochleare medium	coch. med.	a dessert-spoon

LATIN.	ABBREVIATION.	ENGLISH.
Cochleare parvum	coch. parv.	a teaspoon
Compositus, a, um	comp. vel co.	compound
Collutorium, i	collut.	a mouth wash
Cortex, icis	cort.	bark or peel.
Cujus	cuj.	of which.
Cyathus, i	cyath.	a wineglass
Destillatus, a, um	dest.	distilled
Dilutus, a, um	dil.	dilute
Dimidius, i	dim.	one-half
Dividatur in partes æquales	d. in p. æq.	to be divided in equal parts
Dosis, is	d.	a dose
Ejusdem	ejusd.	of the same
Electuarium	elect.	an electuary
Enema	enem.	a clyster
Fac or fiat	f.	make
Fac pilulas duodecim	f. pil. xii.	make twelve pills
Fiat haustus	f. h.	make a draught
Fluidum	fl.	fluid
Fiat mistura	f. m.	make a mixture
Fotus, ùs	fot.	a fomentation
Frustillatim	frust.	in small pieces.
Gutta or guttæ	gtt.	a drop or drops
Gargarisma, tis (n.)	garg.	a gargle
Hora somni	h. s.	on going to bed
In dies	in d.	daily
Infusum	inf.	infusion
Julepus, i.	jul.	a julep
Lagena	lagen.	bottle
Linteum	lint.	lint
Lotio	lot.	a wash
Mane primo	man. prim.	early in the morning
Manipulus, i	man.	a handful
Minimum, i	m.	a minim
Misce	M.	nix
Mistura	mist.	a mixture
Mica panis	mica pan.	a crumb of bread
Mitte	mitt.	send
More dicto	mor dict.	as directed
Nocte maneque	noct. maneque	night and morning
Numero	no.	in number
Oleum	ol.	oil

LATIN.	ABBREVIATION.	ENGLISH.
Omne hora	omn. hor.	every hour
Partes æquales	p. æq.	equal parts
Pannus linteus	pann. lint.	linen cloth
Pencilium camelinum	penc. cam.	a camel's hair pencil
Preparatus, a, um	ppt.	prepared
Post cibum	post cib.	after meals
Per fistulam vitream	per fist. vitr.	through a glass tube
Pro re nata	p. r. n.	as required
Pulvis	pulv.	a powder
Quantum sufficiat	q. s.	a sufficient quantity
Quantum vis	q. v.	as much as you choose
Quotidie	quotid.	daily
Quorum	quor.	of which
Reductum or redactum	reduct.	reduced
Scatula	scat.	a pill box
Semis or semissis	ss.	a half
Semihora	semih.	half an hour
Sesuncia	sesc.	an ounce and a half
Simul	sim.	together
Solutio	sol.	solution
Tere bene simul	t. b. sim.	rub well together
Ter in die	t. i. d.	three times a day
Tinctura	tinct. or tr.	a tincture
Triturata	trit.	triturate
Trochiscus, i	troch.	a troche
Vitellus ovi	v. o.	yolk of egg
Zingiber, is	Zz.	ginger

We may illustrate an abbreviated prescription by the following for an emulsion :—

℞ Vitell. ov.no. ij.
 Ol. Amygd. am.gtt. v.
 Tere bene simul et add. grad.
 Ol. Morrh.℥viiij.
 Glyc.℥ij.
 Ac. phos. dil.℥j.
 Vin. Xer. q. s. ad.Oj.
 F. emuls. S. Ejus. cap. aeg. coch. mag.
 t. i. d. post cib.

This same prescription written out in full, would be:—

℞ Vitellos ovorum..... numero duos.
 Olei Amygalae amaræ guttas quinque.
 Tere bene simul et adde gradatim.
 Olei Morrhuæ..... uncias octo.
 Glycerini..... uncias duas.
 Acidi phosphorici diluti..... unciam unam.
 Vini Xerici quantum sufficiat ad... Octarium unum.
 Fiat emulsio, Signa, "Ejusdem capiat æger coch-
 leare magnum ter in die post cibum."

Translating the above into English, we have:—

Take yolks of Eggs, in number two.
 Of Oil of Bitter Almond, five drops.
 Rub well together and add gradually.
 Of Cod Liver Oil, eight ounces.
 Of Glycerine, two ounces.
 Of Dilute Phosphoric Acid, one ounce.
 Of Sherry Wine, as much as will suffice to make
 one pint
 Let there be made an emulsion, Mark "Let the
 patient take a tablespoonful of this three times
 a day after meals."

Powders may be prescribed in bulk, the patient to use a specified amount as directed, or the mixed powder may be put up in separate papers, *chartulæ*. For example:—

℞ Pulveris Opii..... ℥ij.
 Zinci Acetatis..... ℥ij.
 Misc. Fiat pulvis. Signa: Hujus solve drachmam in
 aquæ calidæ Octario. Injice in more dicto.
 Or,—Misc. Fiat pulvis in chartulas xvij. dividendus.
 Solve unam in aquæ calidæ Octario, etc.

“Take of Powdered Opium, two drachms.

of Acetate of Zinc, two ounces.

Mix. Let there be made a powder. Mark: Dissolve a drachm of this in a pint of warm water. Inject as directed.

Or,—Mix. Let there be made a powder to be divided into eighteen parts. Dissolve one in a pint of warm water,” etc.

℞ Extracti Colocynthis Compositi . . . ℥j.

Hydrargyri Chloridi Mitis gr. ij.

Fiat massa in pilulas xij. dividenda. Capiat mane iij. et postea ij., si alvus, horis sex, non satis dejecerit.

“Take of Compound extract of Colocynth, a drachm. of Calomel, twelve grains.

Let there be made a mass to be divided into twelve pills. Let the patient take three in the morning and two more if, after six hours, the bowels have not moved sufficiently.”

In text-books it is customary to give prescriptions for the preparation of a single dose of a medicine. Many physicians prefer to write prescriptions in this manner. Thus:—

℞ Quininae Sulphatis gr. ij.

Extracti Euonymi gr. iss.

Oleoresinae Piperis ℥j

Fac pilulam, Mitte tales no. xxiv.

Signa.: Capiat agra harum unam ter quaterve in dies statim post cibum.

“Take, Of Sulphate of quinine, two grains.

Of extract of Wahoo, a grain and a half.

Of Oleoresin of Pepper, one minim.

Make a pill. Send twenty four such. Mark:

Let the (female) patient take one of these three or four times a day immediately after meals.”

N. B.—With *fiant*, the nominative case is used; thus, *Fiant Suppositoria, pilulae, pulveres*, etc., but the accusative case follows *fac*; thus, *Fac pilulas, chartulas*, etc.

In prescribing plasters, it is customary to designate the dimensions by Arabic numerals. Thus:—

℞ Emplastrum Belladonnæ, 4" x 6".

“Take a Belladonna plaster, four by six inches in dimensions.”

In this case *emplastrum* should be in the accusative case and not the genitive.

If, however, we order plaster by weight and direct the dispenser to spread it, the genitive case is used. Example:—

℞ Emplastri Picis cum Cantharide ʒj.

Extende supra Emplastrum Resinæ et admove supra nucham.

“Take a drachm of warming plaster. Spread upon resin plaster and apply over nape of neck.”

PART III.

THE GREEK ELEMENT IN THE LANGUAGE OF MEDICINE.

CHAPTER I.

ORTHOGRAPHY.

THE majority of the Greek words found in medical literature have been Latinized and are declined as Latin words. Greek derivatives are so much more euphonious than the compound words formed in modern languages that we find them even in German, a language which, more than any other, avoids the importation of foreign words. No one will be surprised that our Teutonic brethren prefer *pyelitis* to the cumbersome *Nierenbeckenentzündung*. In other European countries, not even excepting Russia and Poland, Greek has become the foundation of medical terminology.

In order to understand the exact meaning of words derived from the Greek, the student should learn the signification of the original words. To accomplish this no extensive knowledge of Greek grammar is necessary. In the *first* place the alphabet, with the Roman equivalents of the letters, should be learned. *Secondly*, a knowledge of the methods by which Greek words are put in Latin and English dress is necessary, and *thirdly*, the student should commit to memory the stems of words used to designate the various parts and functions of the body, together with the signification of a number of prefixes and postfixes.

A few hours spent in the study of etymology in this manner will enable the student to learn the meaning of

a host of technical expressions which would require months of study to master in any other way. In the following pages will be given the great majority of Greek derivatives in common use with the method of their formation, and the original meaning of their component parts.

The Greek alphabet consists of twenty-four letters, as follows:—

FORM.	NAME.	ROMAN EQUIVALENT.
<i>A</i> α	Alpha	a
<i>B</i> β β̄	Bēta	b
<i>Γ</i> γ	Gamma	g
<i>Δ</i> δ	Delta	d
<i>E</i> ε	Epsilon	ē short
<i>Z</i> ζ	Zeta	z
<i>H</i> η	Eta	ē long
<i>Θ</i> θ θ̄	Theta	th
<i>I</i> ι	Iōta	i
<i>K</i> κ	Kappa	k or c
<i>Λ</i> λ	Lambda	l
<i>M</i> μ	Mu	m
<i>N</i> ν	Nu	n
<i>Ξ</i> ξ	Xi	x
<i>Ο</i> ο	Omicron	ō short
<i>Π</i> π	Pi	p
<i>P</i> ρ	Rho	r or rh
<i>Σ</i> σ ς	Sigma	s
<i>T</i> τ	Tau	t
<i>Υ</i> υ	Upsilon	u or y
<i>Φ</i> φ	Phi	ph
<i>X</i> χ	Chi	ch
<i>Ψ</i> ψ	Psi	ps
<i>Ω</i> ω	Omēga	ō long

1. The *vowels* are *α, ε, η, ι, ο, υ, ω*. Of these *η* and *ω* are always long, *ε* and *ο* always short, and *α, ι* and *υ* either long or short according to position or custom, as in Latin. The quantity of these vowels remains the same when converted into Latin as may be seen by the following examples:—

Περωνή, <i>fibula</i>	pěronē'us
Λίπωμα	lipō'ma
Πάρσις	par'ěsis
Φόσφορος	phos'phōrus

2. The *diphthongs* with their Roman equivalents are as follows:—

Greek, *αι, ει, οι, αυ, ευ, ου, υι*, becoming in Roman, *æ, ē or ī, œ, au, eu, ū, yi*

Thus, Γλουταῖος, becomes glutæ'us.

Νευρασθηεῖτα, becomes neurastheni'a.

3. *Breathings*. Every word in Greek beginning with a vowel or with *ρ*, has a breathing over the initial letter, or, in the case of diphthongs, over the second letter. The *aspirate* or *rough breathing* is equivalent to the English *h*, and is written thus (´). The rough breathing is placed over all words beginning with *υ* or *ρ*. The *smooth breathing* (˘) is placed over initial vowels or diphthongs to denote the absence of the *h* sound. Examples: ὕδωρ, *hydor*; αἷμα, *hæma*; ῥεῦμα, *rheuma*; ἀδήν, *aden*.

4. *Nasal sounds*. *Gamma* (*γ*) before *γ, κ, ξ* and *χ* has the sound of *n* in *angle* and is changed to *n* in converting Greek words with the gamma so placed, into Latin or English. For example:—

Ἄγγειον, becomes in Latin angī'um.

Ἄγχύλη, becomes an'kyle.

Φάρυγξ, becomes pharynx.

Ἄγχω, becomes ancho, Latin *angō*.

5. *Changes of termination.* Greek nouns ending in *ος* and *ον* are usually converted into nouns of the second declension ending in *us* and *um*. Examples: *χολεδόχος*, *choled'ochus*; *θύμος*, *thymus*; *άντρον*, *antrum*. Genitives ending in *τος* and *δος* were changed to nouns of the third declension with genitives ending in *tis* and *dis*. Examples: *βρογχίτις*, *βρογχίτιδος*, *bronchi'tis*, *bronchi'tidis*.

6. The *digamma* or *vau* (*F*). In old Homeric Greek there was another letter, the digamma, equivalent in sound to the English *v* or *w*. Thus: *ώόν*, an egg, was originally *ώFόν*, equivalent to Latin *ovum*. There is no evidence, however, that *ovum* was derived from *ώFόν*, but both came from a common word used by the Greco-Italian race before its separation.

7. *Accents.* Accents in Greek are certain marks placed over vowels, influencing their pronunciation. Just what significance they had is not definitely known. There are three accents, the acute (*'*), the circumflex (*~*), and the grave (*`*). The acute accent stands on long and short syllables alike and on any of the last three syllables of a word; the circumflex accent stands only on the long syllables and only on the last two syllables of a word; the grave accent stands only on the last syllable.

CHAPTER II.

THE PARTS AND FUNCTIONS OF THE BODY.

IN order that the student may acquire the principles of medical terminology, it will be necessary for him to commit to memory the stems of the words which designate the various parts and functions of the body. By *stem* we mean that part of a word which remains after the prefixes, suffixes and inflectional endings have been removed, or rather, the part to which these affixes are added. For example take *ἄρωμα* *aro'ma*, the stem is *arom*, from which we may form *aromatic*. But the *root* of a word is that essential part which contains the original meaning, and from which the word is derived. The root of *aroma* is *ar*, from an Aryan word meaning to *plough* or *cultivate*, and secondarily to *acquire* by cultivation. Thus we have in Sanskrit *aritrās*, the oxen which pulled the plough, *aritrām*, the plough handle, later the helm of a ship. In Greek we have *ἀρόω*, to plough; *ἀροτήρ*, a husbandman; *ἄροτρον*, a plough; *ἄρωμα*, ploughed land, secondarily the odor of ploughed land; *ἄροσθην*, the male who did the ploughing, and many others.

In Latin there is *aro*, to plough; *arator*, a ploughman; *aratrum*, a plough; *arvum*, a cultivated field; *armentum*, an ox for ploughing; *arma*, implements for cultivating, afterwards for fighting, etc. In English the same root appears in the old verb *ear*, to cultivate, and in *arm*, the part of the body with which we cultivate the soil.

THE PARTS AND FUNCTIONS OF THE BODY.

STEM.	GREEK.	DERIVATION.	LATIN.	ENGLISH.
Aden	ἀδὴν	lit. an acorn	glandula	gland
Amygda	ἀμυγδαλή	lit. an almond	tonsilla	tonsil
Angi	ἀγγέων	fr. ἄγγος, a pail	tubulus	vessel
Antibrachi	ἀντιβραχίω	fr. ἀντί against, βραχίω arm	cutubus	forearm
Antr	ἄντρον	lit. a cave, cf. ἔντρα	antrum	cavity of Highmore
Aort	ἀορτή	fr. ἀείρω, to rise up	aorta	aorta
Arteri	ἀρτηρία	fr. ἄρτι, ait, τήρω, to carry	arteria	artery
Arthr	ἄρθρων	fr. ἄρω, to join	artus	joint
Balan	βάλανος	cf. βάλλω, to cast, lit. a nut	glans penis	head of penis
Blephar	βλέφαρον	fr. βλέπω, to look	palpebra	eyelid
Brachi	βραχίω	fr. βραχύς, short	brachium	arm
Bregmat	βρέγμα	fr. βρέχω, to be moist	sinciput	top of head
Burs	βούρσα	lit. leather pouch, fr. βούς, an ox	bursa	bursa
Bronch	βρόγχος	lit. the throat	bronchus	bronchus
Bubon	βούβων	lit. the groin	inguen	groin
Cardi	καρδία	Sanskrit <i>hrid</i>	cor	heart
Carp	κάριος	Aryan root <i>carp</i> , to pluck	carpus	wrist
Cephal	κεφαλή	Sanskrit <i>kapala</i>	caput	head
Cheil or chil	χείλιος	fr. χεῖω, to open	labium	lip
Cholecyst	χολέκυστις	χολή, bile, κύστις, bladder	vesica felleis	gall bladder
Chond	χονδρῶς	lit. a paste of groats	cartilago	cartilage, gristle

STEM.	GREEK.	DERIVATION.	LATIN.	ENGLISH.
Cion	κωνίς	dim. of κίων, a pillar	uvula	uvula
Clitor	κλειτορίς	lit. door tender, κλείς, a key	janitrix	clitoris
Cnem	κνήμη	perhaps fr. κνήμιος, a hill	tibia, crus	shin bone, leg
Coccyg	κόκκυξ	onomatopœic, lit. a cuckoo	coccyx	coccyx
Col	κόλον	akin to κόλον, food	colon	colon
Cœli	κοιλία	fr. κοίλος, hollow	venter	belly
Colp	κόλπος	akin to κόλφος, a gulf.	vagina	vagina
Core	κόρη	lit. a maiden, doll	pupilla	pupil
Cran	κράνιον	fr. κάστρον, head	cranium	skull
Cheir or chir	χείρ	fr. αἰρέω, to grasp	manus	hand
Dactyl	δάκτυλος	fr. δείκνυμι, to point	digitus	finger
Dermat	δέρμα	cf. Sansk. <i>darśis</i> , leather	cutis	skin
Dacryocyst	δακρυοκύστις	fr. δάκρυον, tear, κύστις, bladder	sacculus lachrymalis	lachrymal sac
Dacryosolen	δακρυοσωλήνη	fr. δάκρυον, a tear, σωλήνη, tube	ductus lachrymalis	lachrymal duct
Diaphragmat	διαφράγμα	fr. διαφράσσω, to divide	diaphragma	midriff
Didym	δίδυμος	fr. δις twice, or δῖον "two, twins"	testes	testicles
Elytr	ἐλτρον	fr. ἐλβω, to wrap	vagina	vagina
Epicrani	ἐπικρανίον	fr. ἐπί, on, κρανίου, skull	epicranium	scalp
Epidym	ἐπιδιδυμίς	fr. ἐπί, on, δίδυμος, the testicle	epididymis	epididymis
Epiplo	ἐπιπλόον	fr. ἐπί, on, πλόον, a fold	omentum	omentum
Epithel	ἐπιθηλίον	fr. ἐπί, on, θήλη, a nipple	epithelium	epithelium
Encephal	εγκεφαλίον	fr. ἐν, in, κεφαλή, the head	cerebrum, etc.	brain

STEM.	GREEK.	DERIVATION.	LATIN.	ENGLISH.
Enter	ἔντερον	fr. ἔντος, within	intestinum	gut
Gangli	γαγγλίον	lit. a knot	ganglion	ganglion
Gastr	γαστήρ	fr. γάω, to eat	stomachus	stomach
Geni, geni	γενεῖον	fr. γένος, lower jaw	mentum	chin
Geny	γένυς	kindred with γάω, to eat	mandibulum	lower jaw
Gloss	γλῶσσα	kindred with γλώχης, a point	lingua	tongue
Glott	γλωττίς	fr. γλώσσα, tongue	glottis	glottis
Glut	γλουτοί	fr. γλωττός, ischium	nates	buttocks
Gnath	γνάθος	fr. γνάω, to gnaw	mentum	chin
Gonat	γόνο	Sanskrit <i>janu</i>	genu	knee
Gyr	γῆρος	lit. a circle	convolutio	convulsion
Hæmat	αἷμα	cf. ἔαρ εἶσα, Sanskrit <i>asru</i>	sanguis	blood
Hepat	ἥπαρ	Sanskrit <i>jakri</i>	hepar or jecur	liver
Hist	ἵστος	lit. a loom, fr. ἵστημι, to stand	membrana	tissue
Hymen	ὑμῆν	fr. ὑφαίνω, to weave	membrana	hymen, tissue
Hyster	ὑστῆρα	fr. ὑστῆρος, last, lowest	uterus	womb
Ile	εἶλεον	fr. εἶλεός, twisted	ileum	ileum
In	ἴς	originally <i>Fis</i> , whence, Lat. <i>vis</i>	fibra	fibre
Isthm	ἰσθμὸς	lit. a passage, fr. εἶμι, to go	fauces	throat
Kerat	κέρας	akin to κάρα, head	cornu	cornea
Laryng	λάρυγξ	allied to λαλέω, to talk, and ἄγγω, to choke	larynx	larynx
Lapar	λαπάρα	fr. λαπαρός, soft	lumbus	loin

STEM.	GREEK.	DERIVATION.	LATIN.	ENGLISH.
Leptomening	λεπτομήνηξ	fr. λεπτός tender, μήνηξ membrane	pia mater	pia mater
Lip	λίπος	Sansk. <i>lip</i> , fat	adeps	fat
Mast	μαστός	fr. μάσσω, to knead	mamma	breast
Mening	μήνηξ	connected w. ἐμην, membrane	meninx	membrane of brain
Mesenter	μισεάντερον	μέσος middle, ἐντέρον, intestine	mesenteria	mesentery
Mesodm	μισεοδήμη	μέσος middle, δόμος ^{house, in Homer a} mast-box	mediastinum	mediastinum
Metr	μήτρα	fr. μήτηρ, mother	matrix	womb
My	μύς	fr. μύω, to shut up	musculus	muscle
Myring	μυρίηξ	fr. μύσσω, to run at the nose	membrana tympani	eardrum
Myx	μύξα	fr. μύω, to shut in	mucus	mucus
Myel	μύελος	cf. German <i>nirre</i>	medulla	marrow
Nephri	νεφρός	Sanskrit <i>nauree</i>	ren	kidney
Neur	νεύρον	lit. a water sprite	nervus	nerve
Nymph	νυμφή	originally ὠφών, whence	nympha	nymph
O(v)	ὠόν	Sanskrit <i>danta</i>	ovum	egg
Odont	ὀδούς	ὄσσω, to carry, φάρον, food	dens	tooth
Œsophag	οἰσοφάγος	Sanskrit <i>aras</i>	œsophagus	gullet
Om	ὀμος	Sanskrit <i>nabhis</i>	humerus	shoulder
Omph	ὀμφαλός	Sanskrit <i>nachla</i>	umbilicus	navel
Onynch	ὄνυξ	fr. ὠόν, egg, φέρω, to bear	unguis	nail
Oophor	ὠοφάρον	lit. an olive.	ovarium	ovary
Orch	ὄρχις		testis	testicle

STEM.	GREEK.	DERIVATION.	LATIN.	ENGLISH.
Osche	ὄσχεον	fr. ἔγω, to hold, a bag	scrotum	bag
Oste	ὀστέον	Sanskrit <i>osthi</i>	os	bone
Ophthalm	ὀφθαλμός	fr. ὄπτω, to see	oculus	eye
Ot	ὠτός	Aryan <i>ar</i> , to hear	auris	ear
Pachymening	παχυμηνίτις	παχύς, thick, μίτις, membrance	dura mater	dura mater
Paranephr	παρανεφρός	παρά, side, νεφρός, kidney	capsula suprarenalis	suprarenal capsule
Parot	παρωτίτις	παρά, beside, ὠτός, ear	glands parotida	parotid gland
Pancreat	παγκρέας	πάν, all, κρέας, flesh	pancreas	sweet bread
Pecten	πέκτυν	fr. πένω, to shear	os pubis	pubic bone
Perinæ	περινεαίον	fr. περί, around, νείος, dwelling	perineum	perineum
Peritone	περιτονάιον	fr. περί, around, τένω, to stretch	peritoncum	peritoncum
Perone	περόνη	lit. a pin or nail	fibula	fibula
Phall	φαλλός	lit. a pillar or image of the penis carried in Baccha-	penis	penis
Phac	φακός	lit. a lentil	lens	crystalline lens
Phacocyst	φακοκύστις	φακός, lens, κύστις, bladder	capsula lentis	capsule of lens
Pharyng	φαρυγγίς	fr. φάμαγος, noise	pharynx	throat
Phleb	φλέψ	φλέω, to flow	vena	vein
Phren	φρήν	lit. mind	diaphragma	midriff
Piari	πίαρ	Sanskrit <i>pi</i> , fat	sebum	fatty oil
Pleur	πλευρόν	fr. πλευρός, side	pleuron	pleuron
Pneum	πνεύμων	fr. πνέω, to breathe	pulmon	lung
Pod	πούς	Sanskrit <i>pad</i>	pes	foot

STEM.	GREEK.	DERIVATION.	LATIN.	ENGLISH.
Posth	ποσθή	Sanskrit <i>pasas</i> , penis	preputium	foreskin
Proct	προκτός	fr. <i>πρό</i> , forth, <i>άγω</i> , to drive	anus	anus or rectum
Prosop	προσωπων	fr. <i>πρός</i> , before, <i>ώψ</i> , the eyes	facies	face
Pso	ψωά	lit. the loin	psoas, lumbus	loin
Pyel	πύελος	fr. <i>πλύνω</i> , to wash	pelvis renis	kidney pelvis
Pylephleb	πύληφλέψ	fr. <i>πύλη</i> , gate, and <i>φλέψ</i> , vein	vena portæ	portal vein
Pylor	πυλωρός	fr. <i>πύλη</i> , gate, <i>όρω</i> , to watch	pylorus	pylorus
Rhach	ράχις	fr. Aryan <i>rag</i> , rough	columnaspinalis	back bone
Rhin	ρίς	cf. <i>ρυνέω</i> , to polish	nasus	nose
Sarc	σάρξ	fr. <i>σαίρω</i> , to strip	caro	flesh
Salping	σάλπιγξ	lit. trumpet, fr. <i>σάλπιγξ</i> sea shell	tubus	Fallopian or Eustachian tube
Sialaden	σάλιαδών	<i>σάλιον</i> , saliva, <i>αδών</i> , gland	glans salivaris	salivary gland
Somat	σώμα	fr. <i>σάω</i> , to keep	corpus	body
Splanchn	σπλήγγρον	allied to <i>σπλήν</i> , spleen	viscus	vitals
Splen	σπλήν	fr. same root as <i>lien</i>	lien or splenium	spleen
Spondyl	σπονδυλός	lit. a spindle	vertebra	vertebra
Staphyl	σταφυλή	lit. a grape	uvula	uvula
Steat	στάσιπ	fr. <i>στάγιμι</i> , to stand, stiff fat	adeps	stiff fat
Stomat	στόμα	Sansk. <i>as</i> , breath, mouth	os	mouth
Syndesm	σύνδεσμα	<i>συν</i> , together, <i>δέω</i> , to bind	ligamentum	ligament
Tenon	τένων	fr. <i>τένω</i> , to stretch	tendo	tendon
Trache	τραχεία	fr. <i>τραχός</i> , rough	trachea	wind pipe

STEM.	GREEK.	DERIVATION.	LATIN.	ENGLISH.
Trachel	τραχηλός	fr. <i>τραχύνω</i> , to become rough, as in animals, when angry	collum	neck
Trich	θρίξ	perhaps fr. <i>τριγία</i> , triple	capillus	hair
Thorac	θώραξ	lit. a breast plate	thorax	chest
Typhl	τυφλόν	fr. <i>τυφλός</i> , blind	cæcum	blindgut
Ul	(F)ύλλα	fr. Aryan root <i>val</i> , fold	gingiva	gum
Uranisc	οὐρανισκός	dim. of <i>οὐρανός</i> , sky	palatum	palate
Urach	οὐραχός	fr. <i>οὐρῶν</i> , urine, <i>ἔγω</i> , to hold	urachus	urachus
Ureter	οὐρητήρ	fr. <i>οὐρέω</i> , to urinate	ureter	ureter
Urethr	οὐρήθρα	fr. <i>οὐρῶν</i> , urine	urethra	urethra
Zygomat	ζυγωμα	fr. <i>ζυγός</i> , a yoke	arcus zygomaticus	zygoma

THE FUNCTIONS AND SECTIONS OF THE BODY.

STEM.	GREEK.	DERIVATION.	LATIN.	ENGLISH.
Æsthesis	αἴσθησις	fr. <i>αἰσθάνομαι</i> , to feel	sensatio	feeling
Aphrodisias	ἀφροδισίας	fr. <i>Ἀφροδίτη</i> , Venus	venustas	sexual desire
Bio	βίος	Sanskrit <i>bhid</i>	vita	life
Blenn	βλέννα	cf. <i>βλένω</i> , to drivel	mucus	mucus
Chylo	χυλός	lit. a fluid or decoction	chyle	chyle
Chymo	χυμός	fr. <i>χέω</i> , to pour	chyme	chyme
Chole	χολή	fr. <i>χλόη</i> , green	fel, billis	gall, bile
Colostr	κολοστρον	fr. <i>κόλον</i> , food	colostrum	colostrum

STEM.	GREEK.	DERIVATION.	LATIN.	ENGLISH.
Copro	κοπρός	Sanskrit <i>capī</i>	feces	excrement
Diaphoresis	διαφύορησις	διά, through, φέρω, carry	perspiratio	perspiration
Diuresis	διουρήσις	διά, through, ούρω, to urinate	urinatio	micturition
Dipsa	δίψα	fr. πίπτω, to fall (Curtius)	sitis	thirst
Dynam	δυναμικς	fr. δύναμαι, to be able	vis	strength
Emesis	έμεσις	fr. έμέω, to vomit	vomitus	puking
Galact	γάλα	cognate with Latin <i>lac</i>	lac	milk
Genesis	γένεσις	fr. γεννάω, to produce	genesis	generation
Geust	γευστία	fr. γεύω, to taste	gustatio	taste
Gone	γονή	fr. γεννάω, to beget	semen	seed
(H)idrosis	ιδρώσις	allied to ὕδωρ, water	sudatio	sweating
Ichor	ιχώρ	lit. the blood of the gods	serum	serum
Kinesis	κίνησις	fr. κινέω, to move	motus	movement
Lochi	λοχία	fr. λοχός, a bed, child-bed	lochia	"shows"
Mecon	μηκωνίον	fr. μηκων, poppy juice	meconium	meconium
Men	μήνες	fr. μήν, a month	menses	monthly sickness
Mnesis	μνήσις	fr. μνάομαι, to remember	memoria	memory
Mydriasis	μυδρίασις	cf. πυρός, red hot, the fire test	mydriasis	dilatation of pupil
Myx	μύξα	Sansk. <i>mukami</i> , to cast off	mucus	snout
Œstrus	οἰστρός	lit. a gad-fly, mad desire	œstrus	rutting
Orexia	ὀρεξις	fr. ὀρέγω, to desire	fames	appetite
Orgasm	ὀργασμα	fr. ὀργάω, to swell	orgasma	orgasm

STEM.	GREEK.	DERIVATION.	LATIN.	ENGLISH.
Osmosis	ὄσμιωσις	fr. ὄσμιος, impulse	osmosis	osmosis
Opsia	ὄψια	fr. ὄπτω, to see	visus	sight
Ospheosis	ὄσφισις	fr. ὄσφαινομαι, to smell	olfactio	olfaction
Pareunia	παρευνία	fr. παρευνέω, to go to bed with	coitus	sexual intercourse
Phagia	φαγία	fr. φάγω, to eat	deglutio	eating, swallowing
Phasia	φασία	fr. φημί, to speak	dictio	speaking
Phemia	φημία	fr. φημί, to speak	vocatio	speaking
Phonia	φωνία	fr. φωνή, voice	vox	voice
Physis	φύσις	fr. φύω, to grow	natura	nature, growth
Pncea	πνεῦα	fr. πνέω, to breathe	respiratio	breathing
Posis	πόσις	fr. πίνω, to drink	sitis	thirst
Ptysis	πτύσις	fr. πτύω, to spit	salivatio	spitting
Smegma	σμήγμα	lit. soap, cf. <i>maigo</i> and Eng. <i>smear</i>	smegma	smegma
Spermat	σπέρμα	fr. σπείρω, to sow	semen	seed
Sphyxia	σφύξις	fr. σφύζω, to throb	pulsus	pulse
Uro	ούρον	Sanskrit <i>varī</i>	urina	urine

CHAPTER III.

PREFIXES.

THE prefixes used in Greek are prepositions, adjectives, and adverbs, or words derived from these.

a-, an-, or am- (Greek α , $\alpha\mu$, or $\alpha\nu$). *A-* before a *consonant*, except a few words beginning with *bl* or *br*; *an-* before a *vowel*, and *am-* before words beginning with *bl* or *br*. These are inseparable particles kindred with $\alpha\nu\epsilon\upsilon$, without, and equivalent to the Latin prefix *in*, negative, and the English *un-*, as seen in *infirm*, not strong, *unwell*, not well. This prefix is called *alpha privative*, and is used to form compound words denoting the absence of the thing designated by the original word, as may be seen in the following list:—

- abrach'ia**, without arms, armless monstrosity.
- abu'lia**, loss of will power, $\beta\omicron\nu\lambda\eta$.
- acar'dia** (a monstrosity) without a heart.
- acephal'ic**, without a head, headless.
- aceph'alocyst**, a headless monstrosity with cyst of cord.
- achei'rous**, without hands, handless.
- acra'nia**, monstrosity without a skull.
- acye'sis**, inability to become pregnant, sterility.
- adac'rya**, non-secretion of tears.
- adyna'mia**, want of strength, loss of power.
- agalac'tia**, absence of milk in breast after delivery.
- agera'sia**, without old age, a green old age.
- ageus'tia**, loss of sense of taste.
- aglos'sia**, absence of tongue.
- alex'ia**, inability to read resulting from disease.
- ambro'sia**, immortality, the food of the immortals.
- am'blosis**, not living, abortion.

- amenorrhœ'a, absence of menses.
 amne'sia, loss of memory.
 amor'phism, without definite form, formlessness.
 anæ'mia, lit. bloodless, deficiency of blood corpuscles.
 anæsthe'sia, loss of sensation.
 analge'sia, without sense of pain.
 anaphrodis'ia, without sexual desire.
 anhy'drous, without water.
 anidro'sis, suppression of perspiration.
 an'odyne, without pain, a medicine curing pain.
 anor'chous, without testicles.
 anorex'ia, loss of appetite.
 anos'mia, loss of sense of smell.
 ap'athy, without mental feeling.
 asep'sia, loss of digestive power.
 apha'cia, absence of crystalline lens.
 apha'sia, loss of speech, of memory of words.
 aphe'mia, loss of speech.
 apho'nia, loss of voice.
 apnœ'a, cessation of breathing.
 apo'sia, without thirst.
 aproc'tia, without an anus.
 ap'terous, wingless.
 apyrex'ia, absence of fever.
 asa'phia, loss of clearness of voice, hoarseness, fr.
 συχής, clear.
 asper mia, non-secretion of semen.
 asphyx'ia, lit. pulselessness, suffocation.
 astig'matism, without a point of convergence.
 asys'tole, non-contraction.
 atax'ia, want of co-ordination.
 atom, lit. uncut, too small to be cut.
 at'ony, loss of tone, strength.
 at'rophy, cessation of growth.

amphi- ($\acute{\alpha}\mu\phi\acute{\iota}$) before consonants, *amph* ($\acute{\alpha}\mu\phi$) before vowels. A preposition equivalent to the Latin *ambi* or *amb*, meaning literally *on both sides*, with a secondary meaning of *both ways*.

amphiarthro'sis, articulating both ways, *i. e.* synarthrosis and diarthrosis.

amphib'ious, living both ways, *i. e.* on land and in water.

am'phora, handles, $\zeta\acute{o}\rho\omicron\iota$, on both sides, two-handled jar.

ana-, ($\acute{\alpha}\nu\acute{\alpha}$ -) before consonants, *an-* ($\acute{\alpha}\nu$) before vowels. A preposition meaning *up, throughout, again*, Latin *re*, or *apart*, like Latin *se* and *dis*.

anal'ysis, a loosening again, solution.

anasar'ca, (water) throughout the flesh.

anastomo'sis, inosculation.

an'aplasty, a forming again, restoration of lost parts.

anaspa'dias, opening ($\sigma\pi\alpha\delta\acute{\iota}\alpha$) upwards of urethra.

anode, the upward track ($\acute{\alpha}\nu\acute{\omicron}\varsigma$) of electric current.

anti- ($\acute{\alpha}\nu\tau\acute{\iota}$ -) before a vowel, *ant-* ($\acute{\alpha}\nu\tau$ ') before a consonant, *anth-* ($\acute{\alpha}\nu\theta$ '-) before the aspirate *h*. A preposition meaning *against, opposite, opposed to*, like Latin *contra* and English *counter*. It is often used in the formation of words denoting remedies for the affection specified by the primitive.

antephal'tes, a remedy for nightmare.

anthe'lix, (the part of ear) opposite the helix.

anthelmin'tic, a remedy for removing worms, $\xi\lambda\mu\upsilon\varsigma$.

an'ticheir, opposite the hand, *i. e.* the thumb.

ant'idote, a counteracting medicine, given ($\acute{\alpha}\nu\acute{\omicron}\tau\omicron\varsigma$) against.

antilith'ic, a remedy for stone, *calculus*, $\lambda\acute{\iota}\theta\omicron\varsigma$, or for lithæmia.

antip'athy, a feeling ($\pi\acute{\alpha}\theta\omicron\varsigma$) against.

antiphlogis'tic, a remedy for inflammation, $\zeta\lambda\omicron\gamma\acute{\omega}\sigma\iota\varsigma$.

antipyret'ic, a remedy for fever, πῦρ.

antisept'ic, opposing putrefaction, σήπεις.

antispasmod'ic, a remedy for spasm, σπᾶσμος.

antith'enar, opposite the hollow part of hand, θέναρ.

antit'ragus, opposite the tragus.

apo- (ἀπό) before consonants, *ap-* (ἀπ') before vowels and *aph-* (ἀφ') before the aspirate *h*. A preposition meaning *away, from*, like Latin *ab*, English *off*.

aph'orism, a marking off, definition, fr. ὀρίζω, to bound.

aponeuro'sis, (expansion) from a tendon, νεῦρον.

apoph'ysis, a natural growth, φύσις, from a bone.

ap'oplexy, a striking off, from πληγή, a stroke.

apoth'ecary, one who stores away drugs, fromθήκη, a storehouse.

aposte'ma, a standing away, abscess, ἴστημι, to stand.

auto- (αὐτο-) before consonants, *aut-* (αὐτ') before vowels, from αὐτός, self, a reflexive pronoun.

autoplas'tic, formed from one's self, *i. e.* by taking tissue from the patient.

au'topsy, a seeing, ὄψις, or examination of the body itself.

cata- (κατ) before consonants, *cat-* (κατ') *cath-* (καθ') before the aspirate *h*. A preposition meaning *down, through*, with a secondary meaning of *concealed*, like the Latin *de*.

cat'alepsy, seizing upon, fr. καταλαμβάνω, to pounce upon.

catal'ysis, a *dissolution*, or *concealed* solution.

catame'nia, the monthly flowing *down* menses.

cat'aplasm, something layed down, a poultice.

cat'aract, rushing down, ῥήγνυμι, to rush, opacity of lens.

cathar'tic, fr. καθάιρω, to carry down, a purgative medicine.

cath'eter, the instrument sent down to the bladder, fr. καθήγμ, to send down.

dia- (διά) a preposition allied to δύο, two, like Latin *di-* or *dis-*, apart. The meaning is *through*, like Latin *per*.

diabe'tes, a running through, fr. διαβαίνω, to go through.

diachy'lon, a plaster made through, *i. e.* by means of juice, γυλός.

diagno'sis, a knowing through, *i. e.* thoroughly, of a disease.

diapede'sis, a leaping through; (passage of blood corpuscles through wall of vessel).

diaph'anous, shining through, transparent.

diaph'ysis, a growing through or between; the shaft of a bone.

di'astase, the substance which dissolves, fr. διαίστημ, to separate.

dias'tole, a sending apart, dilatation, from διαστέλλω, to dilate.

diath'esis, a placing through, constitution, διατίθημ, to arrange.

diet, a regulation, regimen, fr. διατέω, to regulate.

dys (δύς) an inseparable adverbial prefix like the Sanskrit *dus* and English *mis*. The meaning is *bad*, *difficult*, *painful*, or *defective*.

dyscra'sia, bad temperament, χροῖσις.

dyseco'ia, defective hearing, ἀκοή.

dys'entery, lit. a difficulty with the bowels, inflammation of colon.

dysla'lia, slow difficult speech, λαλία.

dyslex'ia, pain in eyes caused by reading.

dysmenorrhœ'a, painful menstruation.

dyskine'sis, painful motion or movement, κίνησις.

dyspareu'nia, painful sexual intercourse.

dyspep'sia, difficult or defective digestion.

dyspha'gia, painful mastication and swallowing.

dyspho'nia, defective voice, hoarseness.

dyspnœ'a, difficult respiration.

ec- (ἐξ) before a consonant, *ex-* (ἐξ) before a vowel. A preposition cognate with Latin *e* or *ex*, meaning *out*, *out from*; whence we have *ecto-* (ἐκτός), *outside*.

ecbol'ic, a medicine which casts out, causes abortion, from βάλω, to throw.

eccoprot'ic, a medicine to remove fæces, κόπρος.

eccy'e'sis, extra-uterine pregnancy, κύησις.

eclamp'sia, an effulgence, a symptom in some convulsive diseases.

ec'phlysis, a bubbling out, vesicular eruption, ἐκφύω, to bubble.

ecphy'ma, an outward growth, φύμα, a wart, excrescence.

ec'stasy, a standing, στάσις, out, out of one's mind.

ecthy'ma, a breaking out, pustular eruption, ἐκθύω, to break out.

ectó'pia, a displacement, τόπος, a place.

ectozo'a, external, ἐκτός, parasites or animals, ζῷα.

ectro pion, a turning (τρέπω, to turn) out of the eyelids.

ec'zema, a boiling (ζέω, to boil) out of the humors, an eruptive skin disease, salt rheum.

exanthe'ma, a blossoming out, ἀνθημα, eruptive fever.

exog'enus, produced abroad or without, fr. γεννάω, to produce.

exom phalus, lit. out of the navel, ὄμφαλος, umbilical hernia.

exophthal'mia, protrusion of eyeballs.

exosmo'sis, the impulse of fluids outward.

exosto sis, an abnormal growth of bone outward.

exot ic, foreign, ἐξότεις.

en- (ἐν), before *p* and *b*, *em-* (ἐμ). A preposition equivalent to the Latin *in* with the ablative, meaning *in, within*.

em'bolism, lit. something thrown in, an arterial plug, fr. βάλλω, to throw.

emphy'ma, a growth within, subcutaneous tumor (φύμα).

emphyse'ma, an abnormal inflation with air, fr. ἐμφυσάω, to blow in.

empye ma, pus (πύον) within (pleural cavity).

empy'occele, a scrotal tumor containing pus.

enarthro'sis, articulation in, *i. e.* ball and socket joint.

encan'this, an excrescence in *canthus* of eye.

endem'ic, a disease within a limited population, ὀϊμωσ.

ender'mic, in the skin.

en'ema, an injection, from ἐνέμω, to send in.

entro'pion, a turning in of the eyelids, from ἐντρέπω, to turn in.

errhine, lit. in the nose, a snuff.

endo- (ἐνδο) and **ento-** (ἐντο), from ἐνδοσ and ἐντός, within. These are adverbial expressions derived from ἐν, in, and are equivalent to the Latin *intra* and *intro*.

endan'gium, membrane lining inside of vessels.

endarte'rium, membrane lining inside of arteries.

endocar'dium, membrane lining inside of heart.

endome'trium, membrane lining inside of womb.

en'doblast, inner membrane of embryo, βλάστημα, a bud.

en'doscope, an instrument for looking into cavities, σκοπέω, to look.

endosmo'sis, impulse of liquids inward.

endos'teum, inner or medullary membrane of bones.

ento'phyte, a plant φυτόν growing within the body.

entozo'on, a animal parasite within the body.

epi- (ἐπι) before consonants, *ep'*- (ἐπι) before vowels, and *eph-* (ἐφ) before the aspirate *h*. A preposition meaning *upon, on, over, upper*.

epen'dy'ma, lit. upper clothing (ἐνδύμα) lining of ventricles of brain.

epicon'dyle, a tuberosity in the condyle κόνδυλος.

ephe'lis, lit. on the nail, ἤλος, a freckle.

ephem'era, for a day (ἡμέρα) a transitory fever.

ephia'tes, a leaping upon; nightmare fr. ἐφάλλομαι, to leap upon.

epican'thus, on the canthus, a fold in corner of eye.

epider'mis, upper skin, outer coat of skin.

epigas'trium, over-the-stomach (region).

epiglot'tis, (organ) over the glottis.

ep'ilepsy, a seizing upon, fr. λαμβάνω, to seize.

epiph'ora, a carrying (φέρειν) over, running over of tears.

epiph'ysis, a upper growth (of bone).

epispa'dias, opening of urethra upward.

epispas'tic, a medicine to draw (σπάω) up (a blister).

epistax'is, a distilling (στέζειν) up, nose bleed.

epidem'ic, (a disease) upon the whole people (δημιος).

epizoot'ic, a disease upon a whole species of animals (ζῴα).

epu'lis, (a tumor) on the gums οδία.

eu- (εὖ) an adverb opposed to *dys-* (δυσ) in meaning, like Latin *bene, well, easy*.

eucalypt'us, lit. well covered, fr. καλύπτω, to cover, blue gum tree.

euon'ymus, lit. well named, fr. ὄνομα, the plant *Wahoo*.

eupnœ'a, easy respiration.

euthana'sia, easy death (θάνατος).

euthym'ia, easy frame of mind (θυμός).

hemi- (ἡμι) fr. ἡμισυς a numeral adjective meaning *half*, equivalent to Latin *semi*.

- hemianæsthe'sia**, loss of sensation on one side.
hemianop'sia, loss of vision in half of each eye.
hemichore'a, chorea affecting one side.
hemicra'nia, (neuralgia) of half the head, megrim.
hemio'pia, a disorder of vision in which but half an object is seen.
hemiple'gia, a paralytic stroke of half the body.
hem'isphere, half a sphere (*σφαῖρα*) half of cerebrum.

hyper- (*ὑπέρ*) a preposition meaning *over, above, excess of*, like the Latin *super*.

- hyperidro'sis**, excessive sweating.
hyperino'sis, excess of fibrin in the blood, fr. ζς, fibre.
hyperæsthe'sia, excessive feeling, or irritability.
hypercar'dia, enlargement of heart.
hyperpla'sia, excessive formation of tissue.
hyperpnœ'a, rapid respiration.
hyper'trophy, excessive growth of a part.

hypo- (*ὑπό*) before consonants, *hyp-* (*ὑπ*) before vowels, and *hyp'h-* (*ὑφ*) before the aspirate *h*. A preposition meaning *below, under, deficient*, like the Latin *sub* and *subter*.

- hypino'sis**, deficiency of fibrin in blood.
hypochon'drium, region below the cartilages of ribs.
hypocra'nium, collection of pus under cranium.
hypoder'mic, under the skin, subcutaneous.
hypogas'trium, region below stomach.
hypoglos'sal, under the tongue, sublingual.
hypoglot'tis, lower part of glottis.
hypospa'dias, opening of urethra under penis.
hypostat'ic, lit. standing under. Gravitation of blood from defective circulation.

meta- (μετά) before consonants, *met-* (μετ') before vowels, and *metth-* (μεθ') before the aspirate *h*. A preposition kindred with the Sanskrit *mithu*, together, German *mit*, and English *with* and *amidst*. A secondary meaning is *from one place to another* and *after*.

metab'olism, casting or changing about, from μεταβάλλω, to exchange.

metacar'pus, part of hand next to the carpus.

metam'erism, a change in the arrangements of the parts (μετέροζ) or atoms of a chemical compound.

metamor'phosis, a change of form (μορφή).

metas'tasis, a change of position, from μεθίστημι, to transpose.

metatar'sus, part of foot next to the ankle, τάρσος.

metopan'trum, the cavity (ἄντρον) between the eyes, frontal sinus.

pan- (παν), *pan-* (παντ') an adjective meaning *all*, *every*, like the Latin *omnis*.

panace'a, a cure-all, from ἀξέομαι, to cure.

pandem'ic, a disease common to all people, δῆμος.

pantopho'bia, fear of all things, a symptom in some forms of insanity.

pantatro'phia, complete atrophy, as seen in dwarfs.

para- (παρά) before consonants, *par-* (παρ') before vowels. A preposition kindred with Sanskrit *para*, back, and Latin *per*, through. The original meaning was, *by the side of*, with secondary meanings of *by*, *near*, *wrong*, *abnormal*, *through*.

paracente'sis, a piercing through, fr. κεντέω, to bore.

paræesthe'sia, abnormal sensation.

paralysis, a loosening at the side or an abnormal relaxing of muscles.

parame'nia, abnormal menstruation, vicarious menstruation.

parame'trium, parts near the womb, tissues of pelvis.

paraphimo'sis, a muzzling *φίμωσις*, back of the glans penis.

paraplas'tic, abnormal formation of tissue.

paraple'gia, an abnormal stroke, *i. e.* of lower half of body.

par'asite, one who lives on the food (*σῖτος*) of another.

paraspa'dias, opening of urethra on side of penis.

parasys'tole, abnormal contraction of heart.

paregor'ic, soothing, fr. *παρηγορέω*, to encourage, urge on, coach.

paratrip'tic, rubbing together, increasing waste.

paren'chyma, that which is poured in by the side of; the substance of an organ, fr. *ἐγγύω*, to pour in.

par'esis, an abnormal ataxic movement, *παροίημι*, to misdirect.

paronych'ia, disease near the nail (*ὄνυξ*); whitlow.

parot'id, by the side of the ear (*ὄζ*) præ-auricular.

paros'mia, perverted sense of smell (*ὄσμη*).

par'oxysm, an unusual sharpening, *i. e.* exacerbation, fr. *ὀξύνω*, to sharpen.

paru'lis, (a boil) on side of gum (*ὄδλα*).

peri- (*περί*). A preposition cognate with Sanskrit *pari*, around, and Latin adverb *per* intensive, as seen in *pertussis*. Meaning *about, around*, like Latin *circum*.

periarthri'tis, inflammation of parts around a joint.

pericar'dium, the sac surrounding heart.

perichon'drium, the membrane surrounding cartilages.

pericra'nium, the membrane covering skull.

perides'mium, the membrane covering ligaments.

peridid'ymsis, the serous covering of the testicle.

- periglot'tis, the membrane covering tongue.
 perime'trium, the serous covering of womb.
 perimys'ium, the membrane covering muscles.
 perineu'rium, the membrane covering a nerve.
 perine'phrium, the covering (capsule) of kidney.
 perios'teum, the membrane covering bones.
 periph'acus, the capsule of the crystalline lens.
 peripneumo'nia, inflammation around the air passages.
 peristal'sis, a sending (*στέλλω*, to send) around, vermicular motion.
 peritone'um, the membrane stretched (*τείνω*) around bowels.
 perityph'lium, the serous covering of cæcum.

poly- (*πολυ*) from *πολύς*, many, equivalent to Latin *multus*.

- polycys'tic, composed of many cysts.
 polydac'tylism, having supernumerary fingers.
 polydip'sia, excessive thirst, *δίψα*.
 polyphar'macy, use of many drugs (*φάρμακον*).
 pol'ypus, having many feet or prolongations; a soft tumor.
 polyu'ria, excessive secretion of urine.

pro- (*πρό*). A preposition equivalent to the Latin *pro* and *præ*, *before*, *forward*.

- prodrome, running (*δρομα*) before, preliminary symptom.
 proglot'tis, lit. a fore-tongue, a segment of a tape-worm which resembles a tongue.
 prognath'ic, having a projecting lower jaw, *γνάθος*.
 progno'sis, a knowing beforehand the termination of a disease.
 prophylax'is, guarding (*φυλάξις*) beforehand, prevention.
 prostate, the gland which stands before the bladder, fr. *προσάτης*, a president or bishop.

pros- (πρός) cognate with Sanskrit *prate*, against. A preposition meaning *to*, equivalent to Latin *ad*, as in *adverse*.

prosthet'ic, adding, replacing, fr. *προστίθημι*, to add to. That branch of surgery which relates to restoration or substitution of lost parts, as the making of artificial teeth and limbs.

sym- (συμ), *syn-* (σύν), *syl-* (σύλ), *sy-* (συ), from σύν, a preposition meaning *with, together*, cognate with Latin *cum*, Germ. *zusammen*, and English *same*.

symbleph'aron, adhesion of eyelids.

symbol, lit. cast together, fr. *βάλλω*, to throw, a sign.

sym'metry, a measuring (μέτρον) together, alike.

sym'pathy, a feeling with, fellow-feeling.

symptom, falling together, fr. *πίπτω*, to fall, concadence.

sym'physis, a growing (φύσις) together.

syn'chronous, happening at the same time.

syn'chysis, a pouring (χύσις) together of humors of eye.

syn'cope, a cutting short of vitality, fainting, from *κόπτω*, to cut.

synechi'a, a holding together, adhesion of iris to cornea, from *ἔχω*, to hold.

syno'via, lit. white of egg (ὠφόν), fluid of joints.

syn'thesis, a putting together; composition, fr. *συντίθημι*, to put together.

syn'tonin, the substance which holds fibres together, *τείνω*, to stretch.

system, a placing together, arrangement, fr. *συνίστημι*, to arrange.

syn'tole, a sending together, contraction, fr. *στέλλω*, to send.

CHAPTER IV.

NUMERAL ADJECTIVES USED AS PREFIXES.

STEM.	GREEK.	LATIN.	ENGLISH.
Prot	πρωτος	primus	first
Mon	μονος	singulus	single
Di	δις	bis or bin	twice, double
Deutero	δευτερος	secundus	second
Tri	τρις	tres	three
Tetr(a)	τετραρος	quatuor	four
Pent	πεντε	quinque	five
Hex	εξ	sex	six
Hept(a)	επτα	septem	seven
Oct(o)	οκτω	octo	eight
Enne	εννεα	novem	nine
Dec(a)	δεκα	decem	ten
Hecat(o)	εκατον	centum	hundred
Kilo	χιλιοι	mille	thousand
Myri(a)	μυριοι	decem millia	ten thousand

pro'teid, a first or original compound in an organism.

pro'toplasm, the first formative substance, *πλάσμα*.

protox'ide, the first or lower oxide.

protozo'a, the first, or lowest animals.

pro'toplast, a primary formation, fr. *πλάσσω*, to form.

monad, a unit, ultimate atom, combining with a single atom.

monan'drous, a plant with one stamen (*ἀντήρ*, a man).

monoba'sic, having a single base.

mon ograph, a writing (*γραφη*) on a single subject.

monoma'nia, mania with a single delusion.

monor'chis, a male with but one testicle.

- di'atom**, lit. an organism composed of two atoms, lowest living organism.
- dichot'omous**, cut in twain (*δίχα*), dividing by twos.
- dicrot'ic**, a double stroke (*χρότος*) of pulse.
- digas tric**, double bellied, Latin *biventer*.
- dimor'phism**, having two distinct forms (*μορφή*).
- dip'loe**, a doubling, fold; *πλόω*, to fold; two layers of cranial bones.
- diplo'ma**, lit. a folded parchment.
- dis toma**, an animal having two mouths; fluke worm.
- disto'cia**, birth of twins.
- deuterop'athy**, a *secondary* affection.
- triad**, an element capable of combining with three monad atoms.
- trichot'omous**, a dividing (*τριμή*) by threes, *τριχα*.
- trisp'lanchnic**, belonging to viscera (*σπλαγχναι*) of three cavities; sympathetic nerve.
- tetrad**, an element capable of combining with four monad atoms.
- tetran'drous**, having four stamens.
- pentad**, an element capable of uniting with five monad atoms.
- decan'drous**, having ten stamens.

CHAPTER V.

SUFFIXES OR POSTFIXES.

SUFFIXES are of two kinds: *first, inflectional* or *inseparable*, those which cannot exist separately and are employed exclusively to change the form and meaning of stems; and *secondly, separable*, those which are capable of being used alone without any connection with another word. For example, the *ness* in *coldness* belongs to the former variety of suffixes, while the *man* of *cartman* belongs to the latter.

I. **-æmia** or **-hæmia**, from *αἷμα*, blood, is used to form compound words denoting that the substance indicated by the original word is in the blood, or describes the character of the blood; the first member of the compound thus having the signification of an adjective.

acetonaemia, acetone in the blood.

cholæmia, bile in the blood.

cholesteræmia, cholesterin in the blood.

galactæmia, milk in the blood.

hyperinaemia, excess of fibrin in blood.

hypinaemia, deficiency of fibrin in blood.

hydræmia, watery blood.

ischæmia, deficiency of blood.

leucæmia,* excess of white blood corpuscles, fr. *λευκός*, white.

leucocythæmia, excess of white blood corpuscles, from *λευκοκύττος*, a white blood corpuscle.

lithæmia, lithic acid in the blood.

* Leucæmia, septicæmia and uricæmia would be more properly spelled *leuchæmia*, *septichæmia* and *urichæmia*, thus preserving the aspirate *h*. *K* should not be used for *ch* in these words.

melanæ'mia, lit. black (*μέλας*) blood, pigment in blood.

olighæ'mia, deficiency of blood corpuscles, *ὀλίγος*, few.

piarræ'mia, fat in the blood.

pyæ'mia, pus (*πῦον*) in the blood.

sapræ'mia, putrid (matter) in blood, fr. *σαπρός*, rotten.

septicæ'mia, putrid blood, fr. *σηπτός*, putrid.

toxæ'mia, poison (*τοξικόν*) in blood.

uræ'mia, urea or urine in blood, fr. *οὔρον*, urine.

uricæ'mia, uric acid in blood.

2. **-agogue**. Greek *ἀγωγά* fr. *ἄγω* to lead, force, carry off. This suffix is attached to the stems of words denoting secretions or excretions, to form words signifying a remedy which will stimulate or carry them off.

chol'agogue, a remedy to carry off bile.

cop'ragogue, a remedy to carry off fæces.

emmen'agogue, a remedy to stimulate menstrual flow.

galact'agogue, a remedy to stimulate secretion of milk.

hy'dragogue, a remedy to carry off water from the system.

panchym'agogue, a remedy to stimulate secretion of all digestive ferments.

sial'agogue, a remedy to stimulate salivary secretion.

3. **-agra**. Greek *ἄγρα* a seizure, fr. *ἀγρόω* to pounce upon. This suffix denotes a sudden attack of pain, usually with inflammation of a gouty or rheumatic character. It is attached to the stems of words designating the part of the body affected. *ἄγρα* was first employed in this manner by Aristotle.

arth'agra, gout or rheumatism of a joint.

cephal'agra, sudden attack of pain in the head.

car'pagra, sudden attack of pain in wrist.

cheir'agra, sudden rheumatic attack of hands.

cardi'agra, sudden pain in region of heart.

dactyl'agra, attack of gout or rheumatism in fingers.

gon'agra, attack of gout or rheumatism in knee.

om'agra, attack of gout or rheumatism in shoulder.

odont'agra, gouty or rheumatic toothache.

ophthal'magra, gouty or rheumatic pain in eye.

pel'agra, lit. a skin attack, Italian leprosy.

pod'agra, a gouty attack of foot, gout.

4. **-algia**. Greek *ἀλγία*, fr. *ἄλγος* pain, ache. This suffix denotes an aching or neuralgic condition of the part designated by the primitive. *Ἄλγος* in Greek differs from *ὀδύνη* from which *odynia* is derived in being more general in its application, and was applied to both mental and physical pain. In medicine *algia* denotes a pain of longer duration than one designated by *odynia*, although these suffixes are in many cases used synonymously.

antral'gia, neuralgia of the antrum Highmori.

arthral'gia, chronic pain in a joint.

brachial'gia, armache.

cardial'gia, lit. pain in heart, now applied to pain at cardiac end of stomach.

cephalal'gia, headache.

clitoral'gia, pain in clitoris.

cœliat'gia, belly ache.

cystal'gia, neuralgic pain in bladder.

dermatat'gia, neuralgia of skin.

enteral'gia, pain in intestines.

gastral'gia, stomach ache.

glossal'gia, neuralgia of tongue.

hepatal'gia, pain in region of liver.

hysterat'gia, pain in womb.

mastal'gia, pain in breast.

metrat'gia, pain in womb.

myal'gia, pain in muscles, muscular rheumatism.

- nephral'gia, pain in region of kidney.
 neural'gia, pain in a nerve.
 nostal'gia, a painful longing to return home (νοστός, a return).
 odontal'gia, toothache.
 oophoral'gia, neuralgia of ovary.
 orchial'gia, neuralgia of testicle.
 ostal'gia, pain in a bone.
 otal'gia, earache.
 pancreaticalgia, pain in region of pancreas.
 phallal'gia, pain in penis.
 pleural'gia, side ache.
 proctal'gia, pain in anus or rectum.
 prosopal'gia, facial neuralgia.
 rhachal'gia, backache, pain in spine.
 rhinal'gia, pain in nose.
 splenal'gia, pain in region of spleen.
 spondylal'gia, pain in a vertebra.
 urethral'gia, pain in urethra.

With the great majority of the above words, the expression "neuralgia" of the part affected may be employed synonymously.

5. **-atre'sia**. Greek ἀτρασία, from ἀ, privative, and τρώω, to bore, unbored, equivalent to the Latin *imperforatio*. This suffix is attached to the stems of words designating organs of a tubular character and denotes an imperforate condition of these organs.

- colpatre'sia, imperforate vagina.
 enteratre'sia, imperforate intestine.
 gynatre'sia, imperforate condition of female (γύνη) genitals.
 proctatre'sia, imperforate anus.
 urethratre'sia, imperforate urethra.

6. **-ca ce.** Greek *κακη*, evil, from *κακός*, bad. This suffix was formerly much used to denote an ulcerated or offensive condition of the part designated by the primitive word. The word *evil*, as employed in *poll evil*, an ulceration on the back of the neck (*poll*) of horses, is the exact counterpart of the Greek *κακη* as a suffix. *King's evil*, *scrofula*, is an ulcerous condition of the glands of the neck, and was so called because the royal touch was supposed to cure it.

arthroc'ace, ulcerous disease of a joint.

gonoc'ace, ulcerous condition of knee, white swelling.

rhinoc'ace, fetid ulceration of nose.

stomatoc'ace, fetid ulceration of mouth.

7. **-cele.** Greek *κήλη*, a *hernia*, *rupture*. This suffix denotes the protrusion of an organ or part from its normal position. It is attached sometimes to the stem of the word designating the part protruding, and sometimes to the stem of the word designating the locality in which the hernia exists.

bubon'ocele,* inguinal hernia, fr. *βουβών*, the groin.

bron'chocele, lit. a protrusion of the wind pipe, now applied to *goitre*.

col'poccele, vaginal hernia.

cyst'ocele, hernia of the bladder.

epi'ploccele, hernia of the omentum.

enceph'alocele, hernia of the brain, (*ἐγκέφαλον*).

en'terocele, a protrusion of the intestine.

gas'trocele, a protrusion of the stomach.

hæmat'ocele, a protruding tumor filled with blood.

hepat'ocele, a hernia of the liver or in region of liver.

* In regard to the pronunciation of words ending in *cele*, we may state, that they may be treated as Latin words and the suffix pronounced *ce'le* or as English words, in which case the suffix is pronounced *cel*.

hy'drocele, a protruding sac containing serum.
is'chiocele, hernia through inchiadic foramen.
menin'gocele, protrusion of meninges.
os'cheocele, scrotal hernia.
proc'tocele, hernia of rectum, prolapse of bowel.
sar'cocele, a fleshy enlargement of testicle.
splanch'nocele, a protrusion of any abdominal viscus.
trache'ocele, lit. a hernia in region of trachea, *goitre*.

8. **-ec'tomy**. Greek *ἐκτομία*, from *ἐκτέμνω*, to cut out, a *cutting, extirpation*. This suffix is employed to form words signifying the total removal of the part or organ specified by the primitive. It differs from the suffix *-tomy*, which denotes the operation of *cutting*, but not necessarily of cutting out or removal. The Latin equivalent of *ἐκτομία* is *exsectio*.

arthrectomy, exsection of a joint.
chondrectomy, resection of a cartilage.
cionectomy, ablation of uvula.
coccygectomy, exsection of coccyx.
clitoretomy, ablation of clitoris.
corectomy, cutting out a part of the iris.
glossectomy, extirpation of the tongue.
hysterectomy, extirpation of uterus.
laryngectomy, extirpation of larynx.
nephrectomy, extirpation of kidney.
neurectomy, exsection of a portion of a nerve.
oophorectomy, extirpation of ovary.
orchiectomy, extirpation of testicle, castration.
ophthalmectomy, removal of eyeball.
phacectomy, removal of crystalline lens.
proctectomy, removal of portion of rectum.
pylorectomy, resection of pylorus.
splenectomy, removal of spleen.

9. **-graphy.** Greek *γραψία*, from *γράφω*, to write. A suffix denoting *description* of the thing designated by the primitive. *-graph* denotes an instrument for recording the movements of an organ; *-grapher*, one who writes about or describes a thing.

car'diograph, an instrument for recording the movements of the heart.

my'o-graph, an instrument for recording movements of muscles.

sphyg'mograph, an instrument for recording the vibrations of an artery, fr. *σφυγμός*, pulse.

adenog'raphy, a description of the glands.

climatog'raphy, a description of climates (*κλίμα*).

cytog'raphy, a description of cells (*κύτος*).

desmog'raphy, a description of ligaments.

demog'raphy, a description of a people, vital statistics.

embryog'raphy, a description of embryos.

ethnog'raphy, a description of races or nations.

hæmatog'raphy, a description of the blood.

myog'raphy, a description of muscles, recording muscular movements.

neurog'raphy, a description of nervous diseases.

nosog'raphy, a description of diseases.

pharmacog'raphy, a description of drugs.

sphyg'mography, the art of using the sphygmograph.

syphilog'raphy, a description of syphilitic lesions.

10. **-ia.** (Greek *ια*.) The Greek medical writers added this termination to the stem of a word designating an organ to denote a morbid condition of that organ. This termination is not much employed at present in the formation of new words, but a number of words thus formed have come down to us with meanings more or less changed.

ade'nia, disease of the lymphatic glands.

hyste'ria, originally womb disease, now a nervous affection.

me'tria, originally womb disease, now puerperal fever.

ophthal'mia, originally eye disease, now inflammation of the eye.

onych'ia, originally nail disease, now felon or whitlow.

pneumo'nia, originally lung disease, now inflammation of lungs.

dipthe'ria, originally disease of the membranes (*δίφθερα*) now an infectious disease with formation of false membrane.

II. -ic. Greek *-ικός*. A suffix used in the formation of adjectives, and denoting *pertaining* or *belonging* to the thing specified by the primitive. It is equivalent to the Latin *-alis* and *-icus*. The following are a few adjectives thus formed:—

caustic, burning, from *καίω*, to burn.

chronic, enduring, from *χρόνος*, time.

clonic, belonging to irregular spasm, fr. *κλονος*, tumult.

eclec'tic, selective, from *ἐκλέγω*, to select.

enthet'ic, inoculable, from *ἐντίθημι*, to put in.

esoter'ic, pertaining to the organism, fr. *ἐσώτερος*, within.

hero'ic, belonging to a hero (*ἥρωος*), applied to extreme methods of treatment.

idiopath'ic, belonging to a disease (*πάθος*) originating within one's self (*ἰδίως*), not acquired from without.

mephit'ic, belonging to a skunk (*μειφίς*), stinking.

picric, bitter (*πικρός*).

pol'iclinic, a city (*πόλις*) clinic.

polyclin'ic, a clinic with many beds or departments.

sporad ic, lit. sown, from *σπείρω*, to sow; not epidemic.

sthenic, pertaining to strength (*σθένος*), strong.

styptic, astringent, from *στυφω*, to contract.

tonic, making tense, firm, strong, from *τείνω*, to stretch.

trophic, nourishing, from *τρέφω*, to nourish.

12. **-i'tis**. Greek *-ίτις*. This suffix was originally a simple adjective termination like *-ic*, and was used with *νόσος*, disease. For example, *νεφροής*, feminine *νεφροίτις*, means belonging to the kidneys, and we find the word so used by Hippocrates and Thucydides. '*Ἡ γαστροίτις νόσος* meant "the stomach complaint," *ἡ νεφροίτις νόσος* "the kidney complaint." At a later period the word *νόσος*, disease, was usually omitted. During the present century, and especially in all recent nosologies, this suffix is employed to designate an inflammation of the part specified by the primitive word.

adeni'tis, inflammation of a gland.

antri'tis, inflammation of antrum of Highmore.

aorti'tis, inflammation of aorta.

arteri'tis, inflammation of an artery.

arthri'tis, inflammation of a joint.

balani'tis, inflammation of glans penis.

blephari'tis, inflammation of eyelids.

bronchi'tis, inflammation of bronchi.

cardi'tis, inflammation of heart.

chondri'tis, inflammation of a cartilage.

cioni'tis, inflammation of uvula.

clitori'tis, inflammation of clitoris.

coli'tis, inflammation of colon.

colpi'tis, inflammation of vagina.

cysti'tis, inflammation of bladder.

dactyli'tis, syphilitic enlargement of fingers (a word coined by Bumstead).

dermati'tis, inflammation of skin.

- dacryocysti'tis, inflammation of lachrymal sac.
dacryosoleni'tis, inflammation of lachrymal duct.
elytri'tis, inflammation of vagina.
epididymi'tis, inflammation of epididymis.
encephali'tis, inflammation of brain substance.
enteri'tis, inflammation of intestine.
gastri'tis, inflammation of stomach.
glossi'tis, inflammation of tongue.
hepati'tis, inflammation of liver.
hymeni'tis, inflammation of hymen.
ini'tis, inflammation of muscular fibres.
isthmi'tis, inflammation of fauces.
kerati'tis, inflammation of cornea.
laryngi'tis, inflammation of larynx.
masti'tis, inflammation of breast.
meningi'tis, inflammation of meninges.
metopantri'tis, inflammation of frontal sinuses.
metri'tis, inflammation of womb.
myosi'tis, inflammation of muscles.
myeli'tis, inflammation of marrow or spinal cord.
nephri'tis, inflammation of kidney.
neuri'tis, inflammation of a nerve.
nymphi'tis, inflammation of labia minora.
œsophagi'tis, inflammation of œsophagus.
oophori'tis, inflammation of ovaries.
orchi'tis, inflammation of testicle.
osteï'tis, inflammation of bone.
ophthalmi'tis, inflammation of globe of eye.
oti'tis, inflammation of ear.
pachymeningi'tis, inflammation of dura mater.
paranephri'tis, inflammation of suprarenal capsule.
paroti'tis, inflammation of parotid glands, mumps.
pancreati'tis, inflammation of pancreas.
peritoni'tis, inflammation of peritonæum.

- phalli'tis**, inflammation of penis.
phaci'tis, inflammation of crystalline lens.
phacocysti'tis, inflammation of capsule of lens.
pharyngi'tis, inflammation of pharynx.
phlebi'tis, inflammation of a vein.
pleuri'tis, inflammation of the pleura.
pneumoni'tis, inflammation of lungs.
pylephlebi'tis, inflammation of portal vein.
procti'tis, inflammation of rectum.
poliomyeli'tis, gray (*πόλιος*) inflammation of spinal cord.
posthi'tis, inflammation of foreskin.
pyeli'tis, inflammation of pelvis of kidney.
rachi'tis, inflammation of spine; rickets.
rhini'tis, inflammation of nose.
salpingi'tis, inflammation of tube (Fallopian or Eustachian).
spleni'tis, inflammation of spleen.
spondyli'tis, inflammation of a vertebra.
staphyli'tis, inflammation of uvula.
stomati'tis, inflammation of mouth.
syndesmi'tis, inflammation of a ligament.
trachei'tis, inflammation of trachea.
tracheli'tis, inflammation of neck of womb.
typhli'tis, inflammation of cæcum.
uli'tis, inflammation of gums.
uranisci'tis, inflammation of palate.
ureteri'tis, inflammation of ureter.
urethri'tis, inflammation of urethra.

13. **-logy**. Greek *λογία*, from *λόγος*, a word, discourse, or treatise. This suffix is added to the stems of words to form compounds denoting a scientific treatise on, or the science of the thing designated by the primitive.

- adenol'ogy**, a treatise on glands.
ætiol'ogy, a treatise on the causes of disease.
angeiol'ogy, a treatise on vessels.
arteriol'ogy, a treatise on arteries.
arthrol'ogy, a treatise on joints.
bacteriol'ogy, a treatise on bacteria (*βακτηριία*).
biol'ogy, a treatise on life, or the science of life.
chondrol'ogy, a treatise on cartilages.
climatol'ogy, a treatise on climates.
craniol'ogy, a treatise on the skull or skulls.
dendrol'ogy, a treatise on trees (*δένδρον*).
dermatol'ogy, the science treating of the skin.
eccrinol'ogy, the science treating of secretions (*ἔκκρισις*).
embryol'ogy, the science treating of embryos.
encephalol'ogy, the science treating of the brain.
epidemiol'ogy, the science treating of epidemics.
ethnol'ogy, the science treating of races or nations (*ἔθνος*).
gastrol'ogy, the science treating of the stomach.
glossol'ogy, the science treating of the tongue or of words.
gynæcol'ogy, the science treating of diseases of women (*γύνη*, a woman).
hæmol'ogy, the science treating of the blood.
helminthol'ogy, the science treating of intestinal worms (*ἕλμινς*).
histol'ogy, the science treating of tissues (*ἵστος*).
homol'ogy, a treatise on corresponding parts or organs.
hydrol'ogy, a treatise on water.
hymenol'ogy, a treatise on membranes.
hypnol'ogy, a treatise on sleep.
iamatol'ogy, the science treating of remedies *materia medica*.
laryngol'ogy, the science treating of the larynx or throat.
loimol'ogy, the science treating of plagues (*λοιμός*).

- mastol'ogy**, the science treating of the breast.
- microbiol'ogy**, the science treating of minute organisms.
- morphol'ogy**, the science treating of forms (*μορφή*).
- myol'ogy**, the science treating of muscles.
- myxol'ogy**, the science treating of mucous membranes.
- necrol'ogy**, a science treating of the dead members of a society.
- nephrol'ogy**, a treatise on the kidneys.
- neuro'ogy**, the science treating of the nerves and their diseases.
- nosol'ogy**, the science treating of the classification of diseases.
- odontol'ogy**, the science treating of the teeth.
- oncol'ogy**, the science treating of tumors.
- ophthalmol'ogy**, the science treating of the eyes.
- osteol'ogy**, the science treating of bones.
- otol'ogy**, the science treating of the ears.
- pædol'ogy**, the science treating of children and their diseases.
- parasitol'ogy**, the science treating of parasites.
- pathol'ogy**, the science treating of diseases (*πάθος*).
- phallog'ogy**, the science treating of the penis.
- pharmacol'ogy**, the science treating of the action of drugs.
- phonol'ogy**, the science treating of the voice.
- physiol'ogy**, the science treating of growth, or life, (*φύσις*).
- phytol'ogy**, the science treating of plants, (*φυτόν*).
- posol'ogy**, the science treating of dose, fr. *ποσός*, how much?
- proctol'ogy**, the science treating of the rectum and anus.
- psychol'ogy**, the science treating of the mind, (*ψυχή*).
- rhinol'ogy**, the science treating of the nose.
- spermatol'ogy**, the science treating of the semen.
- splanchnol'ogy**, the science treating of the viscera.
- semeiol'ogy**, the science treating of signs and symptoms, fr. *σημείον*, a sign.

symptomatology, the science treating of symptoms of disease.

syndesmol'ogy, a treatise on ligaments.

tenontol'ogy, a treatise on tendons.

teratol'ogy, a treatise on monstrosities, (τέρας, a monster).

toxicol'ogy, a treatise on poisons, (τόξικον).

traumatol'ogy, a treatise on wounds.

urol'ogy, a treatise on the urine.

zymol'ogy, a treatise on ferments.

14. -malacia. Greek μαλακία, softness, from μαλακός, soft. This word, equivalent to the Latin *mollities*, is employed as a suffix to denote an abnormal softening of the part designated by the primitive.

cardiomala'cia, softening of tissues of the heart.

chondromala'cia, softening of a cartilage.

gastromala'cia, softening of walls of stomach.

hystermalac'ia, or hystermalaco'ma, softening of tissue of womb.

keratomala'cia, softening of the cornea.

myelomala'cia, softening of spinal cord.

osteomala'cia, softening of bones, mollities ossium.

phacomala'cia, softening of the crystalline lens.

splenomala'cia, softening of the spleen.

15. -ma'nia. Greek μανία, madness, a word akin to μήν, the moon, which the ancients supposed to be the cause of insanity. Mania is commonly derived from μένος, mind, whence, μνάομαι, to remember. It is used as a suffix in which the primitive has an adjective signification, denoting a prominent symptom of the mania.*

* We occasionally meet with such words as *morphinomania* and *cacainomania* denoting a morbid condition of the nervous system caused by morphine or cocaine. These words should not be admitted to our vocabularies, for aside from being hybrids, they are used to designate diseases in which there are no well-marked delusions. This latter objection applies also to *methomania* and *anomania* when applied to cases in which drunkenness is the cause and not the result of the mental aberration.

dæmonoma'nia, insanity in which the patient believes himself to be possessed of devils (*δαίμων*).

dipsoma nia, insanity with excessive thirst (*δίψα*) for alcohol.

erotoma nia, a mania for loving the opposite sex; from *Ἔρως*, Cupid.

hysteroma nia, hysterical mania.

kleptoma nia, mania in which theft is the prominent symptom, from *κλέπτω*, to steal.

methoma nia, insanity in which the patient has an uncontrollable desire to become intoxicated; fr. *μεθύ*, drunkenness.

nymphoma nia, mania of women for sexual intercourse.

œnoma nia, same as *methomania*, fr. *οἶνος*, wine.

pyroma nia, insanity in which the patient sets buildings on fire, from *πῦρ*, fire.

theoma nia, religious insanity, from *θεός*, god.

16. **-odyn'ia**. Greek *ὀδύνη*, from *ὀδύνη*, severe physical pain, like Latin *dolor* and Sanskrit *du*. It is used as a suffix and attached to the stem of the word designating the location of the pain.

arthrodyn'ia, pain in a joint.

cardiodyn'ia, pain in the heart.

coccyodyn'ia, pain in coccygeal region.

gastrodyn'ia, pain in stomach.

metrodyn'ia, pain in womb.

mastodyn'ia, pain in breast.

ophthalmodyn'ia, pain in eye.

phalldyn'ia, pain in penis.

pleurodyn'ia, pain in side or pleura.

17. **-œde'ma**. Greek *οἴδημα*, a swelling, from *οἰδέω*, to swell. This word is used as a suffix to denote a swelling due to the infiltration of lymph, unless other-

wise specified by the primitive. It is attached (1) to the stems of words designating the fluid which causes the swelling, and (2) to the stems of words designating the part where the swelling exists. It is not considered to be in good taste to use this suffix in the formation of the latter class of compounds which are necessarily words of many syllables. "*Œdema of the brain*," for example, is preferable to *encephalœdema*.

- (1) **hydrœdema**, infiltration of tissues with watery fluid.
lymphœdema, infiltration of tissues with lymph.
myxœdema, infiltration of tissues with a substance resembling mucus (*μύξα*).
- (2) **blepharœdema**, infiltration of tissues of eyelids.
nymphœdema, infiltration of tissues of labia minora.
phalloœdema, infiltration of tissues of penis.
pneumonœdema, infiltration of tissues of lungs.

18. **-oid**. Greek *-οιδής* or *-οιδής*, from *εἶδος*, a form or image. This is an adjective suffix Latinized into *-odes*, *-oides*, or *-oidalis*, and is the exact equivalent of Latin *-formis*, from *forma*, a shape, or the English *shaped*, *like*.

ad'enoid, gland-like.

an'thropoid, man-like or man-shaped, fr. *ἄνθρωπος*, man.

cesto'des, girdle-like, fr. *ἄστρος*, a girdle.

chon'droid, cartilage-like.

cho'roid, leather-like.

cir'soid, like a varix (*χρῶς*).

cli'noid, bed-like, fr. *κλίνη*, a couch.

col'loid, glue-like, fr. *κόλλα*, glue.

con'choïd, shell-shaped, fr. *χορδή*, a shell.

co'noid, cone-shaped, fr. *κωνος*, a cone.

cor'acoid, crow-bill-shaped, fr. *κόραξ*, a raven or crow.

- cor'onoid, crown-like, fr. *κορώνη*, a crown.
 cot'yloid, cup-shaped, fr. *κοτύλη*, a cup.
 cri'coid, ring-shaped, fr. *χρίκος*, a ring.
 cu'boid, cube-shaped, fr. *κύβος*, a cube.
 del'toid, delta-shaped, *i. e.* like Δ .
 der'moid, skin-like.
 des'moid, ligament-like.
 enceph'aloid, like brain tissue.
 eth'moid, sieve-like, fr. *ἕθμος*, a sieve.
 gle'noid, cave-like, fr. *γλήνη*, a cavity.
 hæm'atoid, blood-like.
 ha'loid, salt-like, fr. *ἅλς*, salt, or the sea.
 hel'coid, ulcer-like, fr. *ἕλκος*, an ulcer.
 hy'aloid, glass-like, from *ὑαλος*, glass.
 hy'oid, epsilon-shaped, like υ .
 hys'teroid, hysteria-like.
 ke'loid, tumor-like, resembling a rupture (*κηλή*).
 lamb'doid, lambda-shaped, *i. e.* like Λ .
 lep'idoid, scale-like, from *λεπίς*, a scale.
 mas'toid, breast or nipple-shaped.
 my'oid, muscle-like.
 na'noid, dwarf-like, from *νανος*, a dwarf.
 nem'atoid, thread-like, from *νήμα*, a thread.
 neph'roid, kidney-shaped.
 odon'toid, tooth-like.
 os'teoid, bone-like.
 pter'ygoid, wing-like, aliform, from *πτέρυξ*, a wing.
 rheu'matoid, like rheumatism.
 ses'amoid, like a sesame seed.
 sig'moid, sigma-shaped, *i. e.* like ς .
 sphe'noid, wedge-shaped, from *σφήν*, a wedge.
 tet'anoid, like tetanus.
 thy'roid, shield-shaped, from *θυρεός*, a shield.
 trap'ezoid, table-like, from *τραπέζα*, a table.

ty'phoid, like typhus, from τῦφος, stupor.

xiph'oid, sword-like, from ξίφος, a sword.

19. **-o'ma**. Greek **-ώμα**. This is an inseparable suffix used in the formation of nouns from verbs (verbal nouns). It denotes the result of the action of the verb. Thus, from *κράκνος*, a crab, Latin *cancer*, the verb *καρκινώω*, to have a cancer, is formed, and from this verb is derived *καρκίνωμα* (*carcinoma*) the result of the cancerous process, the cancerous tumor. Many of the verbs denoting morbid processes in Greek end in *ώω*, and from these, verbal nouns designating the result of the action expressed by the verb, are formed by adding *-ωμα*, *-ομα*, to the stem. In cases where this termination is apparently added to a noun stem, the intermediate formation of a verb is understood. For example, *adenoma* is not derived directly from *ἀδῆν*, a gland, but from *ἀδενόω*, to form a gland, and *adenoma* means a gland-like formation or tumor. *-oma* is now limited to the construction of words designating tumors formed as the result of morbid processes and malignant growths of all kinds.

atheroma, a goat-like tumor, fr. *ἀθήρα*, goats.

angioma, a vascular tumor, fr. *ἀγγεῖον*, a vessel.

cephaloma, a brain-like tumor, fr. *κεφαλή*, head.

cephalhæmatoma, a blood tumor on the head.

chondroma, a cartilaginous tumor.

dermatoma, a cutaneous tumor.

encephaloma, a brain-like tumor.

enchondroma, a cartilaginous tumor from bone.

epithelioma, an epithelial tumor.

glioma, a glue-like tumor, from *γλία*, glue.

hæmatoma, a tumor containing blood.

inoma, a fibrous tumor, from *ἴς*, fibre.

keratoma, a horny tumor, from *κέρας*, a horn.

leucoma, a white tumor, from λευκός, white.

lipoma, a fatty tumor.

melanoma, a black pigmentary tumor.

myoma, a muscular tumor.

myxoma, a tumor composed of mucous tissue.

neuroma, a nerve tumor.

odontoma, a dental tumor.

osteoma, a bony tumor.

othæmatoma, a blood tumor of ear, hæmatoma auris.

sarcoma, a malignant fleshy tumor.

scleroma, a hard tumor, from σκληρός, hard.

staphyloma, a grape-like tumor, *i. e.* projection of cornea.

steatoma, a tumor containing stiff fat.

sycoma, a fig-like excrescence, fr. σῦκον, a fig.

trachoma, rough (τραχύς) swelling of eyelid, or conjunctiva.

xanthoma, a yellow fibrous tumor, fr. ξανθός, yellow.

20. **on'cus**. Greek ὄγκος, a word meaning, primarily, a weight, from ὄγκω, to bend (the arm of a balance); cognate with Sanskrit *ankami*, with Latin *uncus*, a hook, and *uncia*, an ounce, and with English *ankle*, the bend between leg and foot. As a suffix *-on'cus* has the secondary meaning of a tumor or mass without regard to its origin, a non-malignant tumor; thus differing from *-oma* which designates a tumor resulting from a morbid process and *-cele* which denotes ordinarily a tumor due to the misplacement of a viscus. *-oncus* is added to the stem of the noun which designates the location of the tumor.

arthroncus, a tumor in a joint; floating cartilage.

episeioncus, a tumor in pubic region, or of labia, from ἐπίσειον, pubes.

hepatoncus, a tumor of the liver.

mastoncus, a tumor of the breast.

- pancreatoncus**, a tumor of the pancreas.
phalloncus, a tumor of the penis.
splenoncus, a tumor of the spleen.
uloncus, a tumor of the gums.

21. **-opia**. Greek *-ωπία*, from *ὄψ*, the eye or eye-sight, from *ὄπτω*, to see. *-opsia*, Greek *-ωψία*, from the same. These are used as suffixes to the stems of words used adjectively denoting the kind of sight or defect of vision.

- amblyopia**, defective or weak sight, fr. *ἀμβλύς*, blunted.
ametropia, abnormal (*ἀμέτρον*, out of measure) sight.
asthenopia, weak (*ἀσθενής*) sight.
copyopia, weary sight, from *κόπος*, weary.
diplopia, double (*δίπλοον*) sight, seeing double.
emmetropia, normal (*ἐμμήτρον*, in measure) vision.
hemeralopia, sight by day only, fr. *ἡμέρα*, day.
hæmatopsia, blood-colored vision.
hyperopia, over (*ὑπέρο*) vision; far sight.
myopia, fr. *μύω*, to shut the eyes; a symptom of near-sightedness; near sight.
micropsia, vision in which objects appear smaller than they are.
megalopsia, vision in which objects appear larger than they are.
xanthopsia, yellow vision, from *ξανθός*, yellow.

22. **-pathy**. Greek *πάθια*, from *πάθος*, an affection, disease. This suffix is used in two ways: (1) it is attached to the stems of nouns to denote a diseased condition of the part designated by primitive, and (2) to the stems of adjectives or words used adjectively to form compounds denoting a system of treatment.

- (1) **adenop'athy**, diseased condition of lymphatic glands
cardiop'athy, diseased condition of heart.
hysterop'athy, diseased condition of womb.
neurop'athy, a diseased condition of nervous system.
psychop'athy, a diseased condition of mind.
- (2) **allop'athy**, a word coined by Hahnemann to denote means of cure otherwise than by *homœopathy*, fr. ἄλλος, other.
dæmonop'athy, cure by invoking the aid of spirits, fr. δαίμων, spirit.
electrop'athy, cure by use of electricity.
homœop'athy, cure by using remedies producing symptoms like (ὁμοιος) those of the disease.
hydrop'athy, cure by using water.
theop'athy, cure by invoking God(θεός); prayer cure.

23. **-pho'bia**. Greek -φοβία, from φόβος, fear, or φοβέω, to be afraid. This suffix is used to form words denoting the symptom of morbid fear. It is attached to the stem of the word which designates that of which the patient is afraid.

- agoraphobia**, fear of the market place (ἀγορά); of being alone in large places.
anthropophobia, dread of society, man-kind (ἄνθρωπος).
cynophobia, morbid fear of dogs (κύων).
cypriphobia, fear of sexual intercourse, fr. Κυπρίς, Venus.
kenophobia, fear of empty places, fr. κενός, empty.
hydrophobia, fear of water, a misnomer for *rabies*.
mysophobia, fear of contamination, from μυσός, dirt.
photophobia, dread or intolerance of light.
pyrophobia, fear of fire.
syphiliphobia, morbid fear of contracting syphilis.

24. **-plas'ty**. Greek *-πλαστία*, from *πλάσσω*, to mould. This suffix denotes the operation by which the part designated by the primitive is restored. If the tissue is taken from the patient the operation is called *autoplasty*, if from another, *heteroplasty*, from *ἕτερος*, other.

blepharoplasty, restoration of eyelid.

cheiloplasty, restoration of lip.

cystoplasty, restoration of walls of bladder.

dermoplasty, restoration of skin; skin grafting.

elytroyoplasty, restoration of the vaginal walls.

gastroplasty, restoration of walls of stomach.

gnathoplasty, restoration of the tissues on jaw or cheek.

helcoplasty, restoration of skin over an ulcer (*ἔλκος*).

keratoplasty, restoration of cornea.

oscheoplasty, restoration of scrotal sac.

perinæoplasty, restoration of perinæum.

rhinoplasty, restoration of nose.

urethroplasty, restoration of urethra.

25. **-rhaphy**. Greek *ῥαφία*, from *ῥαφή*, a suture or seam, from *ῥάπτω*, to sew or stitch. Thus we speak of the *rhaphé perinæi* and *rhaphé occipitis*, because these parts appear to have been stitched together. The suffix *-rhaphy* denotes the operation of suturing the part designated by the primitive.

elytror'rhaphy, suturing the vagina.

enteror'rhaphy, suturing an intestine.

neuror'rhaphy, suturing a nerve.

perinæor'rhaphy, suturing the perinæum.

proctor'rhaphy, suturing the rectum or anus.

staphylor'rhaphy, lit. suturing the uvula (*σταφυλή*); a misnomer for suturing the palate for cleft palate.

trachelor'rhaphy, suturing the neck of uterus.

uraniscor'rhaphy, suturing the palate for cleft palate.

26. **-rha'gia**. Greek *ῥαγία*, from *ῥήγνυμι*, to burst forth. This suffix is attached to stems of words, (1) to denote an excessive flow of blood from the part designated by the primitive, or (2) to denote an excessive flow of the substance designated by the primitive. In the former class it may usually be translated *hemorrhage of*.
blennorrhagia, an excessive discharge of mucus;
gonorrhœa.

clitorrhagia, hemorrhage from clitoris.

enterrhagia, hemorrhage from bowels.

hæmorrhagia, an abnormal flow of blood.

menorrhagia, an excessive flow of menstrual blood.

metrorrhagia, hemorrhage from the womb, not menstrual.

nymphorrhagia, a hemorrhage from the labia minora.

phallorrhagia, a hemorrhage from the penis.

pharyngorrhagia, a hemorrhage from the pharynx.

rhinorrhagia, a hemorrhage from the nose.

ulorrhagia, a hemorrhage from the gums.

27. **-rhœ'a**. Greek *ῥοία*, from *ῥέω*, to flow, equivalent to the Latin *fluxus*, from *fluo*, to flow. This suffix, when attached to the stems of nouns designating parts of the body, denotes an abnormal flow of mucus (catarrh) or other secretion from the part specified by the primitive. It is also attached to the stems of words used adjectively describing the nature of the flux.

blennorrhœa, an abnormal discharge of mucus.

bronchorrhœa, catarrh of the bronchi.

catarrh, a flowing down (*κατά*); excessive discharge of mucus.

cystorrhœa, catarrh of the bladder.

colporrhœa, vaginal catarrh.

diarrhœa, flowing through (*διά*) of contents of intestines.

emmenorrhœa, monthly flow, menses.

enterorrhœa, catarrh of intestines.
galactorrhœa, excessive flow of milk.
gastrorrhœa, catarrh of stomach.
gonorrhœa, flow of semen; misnomer for blennorrhagia.
hydrorrhœa, watery discharge.
laryngorrhœa, catarrh of larynx.
leucorrhœa, white (*λευκός*) discharge from vagina.
metrorrhœa, catarrh of uterus.
ophthalmorrhœa, catarrh of eyes.
orrhorrhœa, discharge of serum (*ὀρρόζ*).
otorrhœa, catarrh of ear.
phallorrhœa, mucous discharge from penis.
pharyngorrhœa, catarrh of pharynx.
piorrhœa, excessive flow from sebaceous glands.
proctorrhœa, catarrh of rectum.
rhinorrhœa, nasal catarrh.
salpingorrhœa, catarrh of Eustachian tube.
spermatorrhœa, abnormal flow of semen.
trachelorrhœa, catarrh of cervix uteri.

28. **-sis**. Greek *σις*. A suffix used in forming verbal nouns. It is equivalent to the Latin *-ens*, *-entia*, *-cia*, and English *-ing*, and denotes a process, action, or possession. It is added to the stems of verbs to form nouns denoting the continuance of such action, process, or possession. Thus from *ἀνθράξ*, coal, we have the verb *ἀνθράξω*, to turn to coal, and *ἀνθράξωσις*, a turning to coal, now applied to the deposit of coal dust in the lungs, or to the formation of carbuncles (*ἀνθράξις*) which were supposed to resemble coals. So also *carcinosis* denotes the cancerous process, formation of cancer, as *carcinoma* denotes the result of the process, a cancerous tumor.

amauro'sis, a darkening, blindness, fr. *ἀμαυρόω*, to darken
archeio'sis, original (*ἀρχή*, beginning) formation of life,
 from *βιω*, to live.

- argyro'sis**, lit. a turning silver; a deposit of silver salts in tissues.
- biogen'esis**, generation of life, fr. βιογεννάω, to form life.
- byssino sis**, lit. a turning to cotton (βύσσος); deposit of cotton in lungs.
- cardiac'tasis**, dilatation of heart, fr. ἐπτάω, to distend.
- chemo'sis**, lit. formation of a cavity (χῆμη); inflammation of eyes in which the cornea seems to be in a cavity.
- chloro'sis**, a turning greenish yellow, from χλωρόω, to turn green.
- chromidro'sis**, having colored sweat, fr. χρωμόω, colored.
- cirrho sis**, turning reddish yellow, from κρόρόω, to turn reddish yellow.
- copho'sis**, deafness, from κοφάω, to be deaf.
- coreclei sis**, closing of the pupil, from κορηκλείω, to close
- cyano'sis**, turning blue (κύανος).
- cyrto sis**, a bending, from κυρτόω, to bend.
- dermatol'ysis**, a shedding of the skin, from δερματολόω, to cast off the skin.
- distichi'asis**, having a double row (δίστειχος) of eyelashes.
- dosis**, dose, a giving, fr. δίδωμι, to give.
- ecchymo'sis**, a pouring out of blood into the tissues, fr. ἐγγυμόω, to pour out.
- elephanti'asis**, becoming like an elephant (ἐλεφαντιάζω); a disease in which there is great hypertrophy of tissues.
- gompho sis**, (articulating) like a molar tooth, fr. γομφάω, to cut teeth.
- hæmatem'esis**, a vomiting of blood, fr. αίματεμέω.
- helco sis**, ulceration, fr. ἔλκω, to ulcerate.
- helminthi asis**, having intestinal worms, from ἑλμινθιάζω, to have worms.
- histol ysis**, dissolution of tissue.

- hystrici'asis**, resembling a hedgehog (*ὑστρίκις*); stiffness of the hair.
- ichthyo'asis**, resembling a fish (*ἰχθύς*); scaly skin disease.
- iridokine'asis**, abnormal movement or twitching of iris.
- lithi'asis**, formation of calculi (*λίθοι*).
- lordo'asis**, a bending forward of spine, from *λορδοῶ*, to bow down.
- lysis**, solution, breaking up of a disease, fr. *λύω*, to loose.
- narco'asis**, stupefaction, from *ναρκόω*, to stupefy.
- necro'asis**, a dying, mortification, fr. *νεχροῶ*, to mortify.
- pathogen'esis**, generation of a disease.
- phimo'asis**, a muzzling (of penis with foreskin) fr. *φιμῶ*, to muzzle.
- phlegmo'asis** or **-ma'sia**, inflammation, from *φλεγμάζω*, to inflame.
- phtheiri'asis**, having lice, fr. *φθειράζω*, to have lice.
- phthisis**, a wasting, fr. *φθίω*, to waste away.
- pityri'asis**, scurfiness, fr. *πιτυριάζω*, to be scurfy.
- polio'asis**, turning gray of hair, fr. *πολιῶ*, to become gray.
- poro'asis**, a hardening, callous, fr. *ποροῶ*, to harden.
- psori'asis**, having the itch, fr. *ψωρά*; a squamous skin disease.
- ptosis**, a falling, drooping of the eyelid, fr. *πίπτω*, to fall.
- pyro'asis**, a burning (in the stomach), fr. *πυροῶ*, to set on fire.
- rhachiocamp'asis**, spinal curvature, fr. *ράμπτω*, to curve.
- rhachiocypho'asis**, having a hump back, fr. *ρυφῶ*, to make a hump.
- rhexis**, a rupture of a vessel, fr. *ρήγνυμι*, to burst.
- rhuido'asis**, a wrinkling (of cornea before death), fr. *ρυτιδῶ*, to wrinkle.
- satyri'asis**, acting like a satyr, inordinate sexual desire, fr. *σατυριάζω*, to play the satyr.
- scolio'asis**, curvature (of spine), fr. *σκολιῶ*, to be crooked.

trichi'asis, having hairs, eyelashes growing into eyes,
fr. *θρίξ*, a hair.

trichino'sis, being affected with trichinæ.

zymo'sis, fermentation, an infectious process, fr. *ζυμῶω*,
to make yeast, to ferment.

29. **-scopy**. Greek *-σκοπία*, from *σκοπέω*, to examine. A word derived from *σκέπτομαι*, to look at, like Latin *inspectio*, from *specio*. This suffix denotes the act of examining the part specified by the primitive. It is equivalent to the Latin *spectio*.

elytros'copy, the examination of the vagina.

endos'copy, the examination of cavities, parts within.

gastros'copy, the examination of the stomach.

gynæcos'copy, the examination of female genitals.

laryngos'copy, the examination of the larynx.

micros'copy, the examination of small things.

ophthalmos'copy, the examination of the eye.

otos'copy, the examination of the ear.

pharyngos'copy, the examination of the throat.

proctos'copy, the examination of the rectum.

rhinos'copy, the examination of the nose.

stethos'copy, the examination of the chest.

urethros'copy, the examination of the urethra.

All of the words ending in *-scopy* signify an ocular examination, except *stethoscopy*, which denotes an examination by means of the ear.

30. **-s'mus**. Greek *-σμος*, English *-sm*. A termination added to the stems of intensive and frequentative verbs, *i. e.* those ending in *ζω*, to form verbal nouns. Thus, from *σπᾶω*, to draw, we form the intensive verb *σπᾶζω*, to draw hard, or with a frequentative sense, to draw often. From this verb we get *σπάσμος*, Latin *spas-*

mus, English *spasm*. As a termination it denotes that the action expressed by the verb takes place frequently or rapidly. A secondary meaning is irritability or spasm. With this signification it is attached to the stem of the noun designating the part affected. In a few cases, as in *aneurysm*, from ἀνευροῦζω, to widen out, it has the same signification as the termination *-sis*.

erethism, irritability, from ἐρεθίζω, to irritate.

rheumatism, lit. abounding in humors (ῥεῦματτα).

laryngismus, spasm of larynx, from λαρυγγίζω, to shout.

marasmus, a rapid wasting, fr. μαράζω, to waste away.

œsophagismus, spasm of œsophagus.

pharyngismus, spasm of pharynx.

priapism, constant or frequent erection of penis.

ptyalism, spitting frequently, salivation, fr. πτύω, to spit.

strabismus, squinting, fr. στραβίζω, to squint.

trachelismus, a throttling spasm of neck, fr. τραχηλίζω, to throttle.

tenesmus, a constant or severe straining (τενέζω, to strain severely).

trismus, a gnashing the teeth, lock-jaw, from τρίζω, to grate the teeth.

31. **-tomy**. Greek τομία, from τέμνω, to cut. A suffix equivalent to Latin *sectio*, cutting, used to form words denoting the operation of cutting the part designated by the primitive. As it means simply *incision*, it should not be applied to operations of cutting out, or removing a part. *Lithotomy*, for example, is a misnomer, for the stone is not *cut* but *cut out*, the bladder being the part incised. *Lithectomy* or *litho-cystotomy*, bladder cutting for stone, would have been better words to designate the operation.

- amygdalot'omy**, cutting the tonsils.
anat'omy, cutting up (*ἀνά*), dissection.
anthropot'omy, human anatomy.
arteriot'omy, section of an artery.
bronchot'omy, section of a bronchus.
chondrot'omy, cutting a cartilage.
cholecystot'omy, cutting the gall bladder.
cionot'omy, cutting the uvula.
colot'omy, cutting the colon.
craniot'omy, cutting the skull.
cystot'omy, cutting the bladder.
elytrot'omy, cutting the vagina.
embryot'omy, cutting the embryo or foetal head.
enterot'omy, cutting the intestine.
hysterot'omy, cutting the womb.
keratot'omy, cutting the cornea.
laryngot'omy, cutting the larynx.
laparot'omy, cutting the loin.
laparo-elytrot'omy, cutting the loin and vagina.
myot'omy, cutting a muscle.
nephrot'omy, cutting into the kidney.
neurot'omy, cutting a nerve.
œsophagot'omy, cutting the œsophagus.
orchiot'omy, cutting a testicle.
osteot'omy, cutting a bone.
phacocystot'omy, cutting into the capsule of lens.
pharyngot'omy, cutting into the pharynx.
phlebot'omy, cutting into a vein, venesection.
pleurot'omy, cutting into the pleura or side.
pneumonot'omy, cutting into the lung.
proctot'omy, cutting into the rectum or anus.
rhachiot'omy, cutting the spine.
salpingot'omy, cutting the Fallopiian tube.
staphylot'omy, cutting the uvula.

syndesmot'omy, cutting a ligament.
syringot'omy, cutting a fistula (*σὺριγγή*).
tenot'omy, cutting a tendon.
tracheot'omy, cutting the trachea.
trachelot'omy, cutting neck of womb.
typhlot'omy, cutting the cæcum.
urethrot'omy, cutting the urethra.

32. **-u'ria**. English *-ury*, Greek *-ουρία*, from *οὐρέω*, to urinate. This suffix is attached to the stems of words used adjectively to form compounds designating the various abnormalities of the urine and micturition.

anuria, total suppression of urine.

azoturia, excess of urea in urine, fr. *azote*, a name for nitrogen.

choluria, bile in the urine.

chyluria, chyle in the urine.

dysuria, difficult or painful urination.

galacturia, milk in the urine, or milk-white urine.

galactosuria, milk sugar in the urine.

glycosuria, glucose in the urine.

hæmaturia, blood in the urine.

hæmaglobinuria, hæmoglobin in the urine.

ischuria, suppression of urine, fr. *ἔχω*, to hold.

melanuria, black or dark colored urine.

mellituria, honey (*μέλι*) in the urine, same as glycosuria.

oliguria, scanty urine.

polyuria, excessive excretions of urine.

pyuria, pus in the urine.

stran'gury, difficult urination, fr. *στράγγη*, a drop.

CHAPTER VI.

ETYMOLOGY OF SOME OTHER WORDS OF GREEK ORIGIN.

- acro'mion**, fr. *ἄκρον*, top, and *ὤμος*, shoulder.
- actinomyco'sis**, from *ἄκτιν*, a ray, and *μυκής*, a fungus; radiating fungus.
- æg'ilops**, from *αἴζ*, a goat, and *ὤψ*, eye; ulcer in corner of eye.
- ægoph'oy**, fr. *αἴζ*, a goat, *φωνή*, voice; bleating sound.
- allot'ropy**, from *ἄλλος*, other, and *τρέπω*, to turn; changing to another form.
- amal'gam**, fr. *ἅμα*, together, *γαμέω*, to marry; mixture of metals.
- alope'cia**, from *ἄλωπηξ*, the fox, which is sometimes bald; baldness.
- ankylo'sis**, immobility, fr. *ἀγκυλόω*, to clasp.
- ankylo-glos'sia**, clasp (*ἀγκυλή*) tongue (*γλῶσσα*); tongue-tie.
- anthropoph'agous**, man eating, fr. *ἄνθρωπος*, man, and *φάγω*, to eat.
- aphtha**, fr. *ἄπτω*, to burn; a burning, sore mouth.
- arach'noid**, spider web-like membrane, from *ἀράχνη*, a spider.
- asci'tes**, a full bag (*ἀσκήτης*); abdominal dropsy.
- asthma**, a gasping for breath, from *ἄσθμάζω*, to gasp for breath.
- atro'pa**, fr. *Ἄτροπος*, the Fate that ends life; belladonna.
- bacte'rium**, fr. *βακτηρίον*, a little rod; microbe.
- bary'ta**, heavy metal, fr. *βαρύς*, heavy.
- basil'ikon**, the royal (*βασιλικός*) ointment.
- bi'oplasm**, life-forming substance, fr. *βίος*, life, and *πλάσσω*, to form.

- bot'any**, fr. βοτανή, an herb; the science of plants.
- bothrioceph'alus**, a tapeworm with the little pitted (βοθρίον) head.
- bromine**, the element with the bad smell, from βρωμιος, noisome.
- bronchoph'ony**, bronchial voice, fr. βρόγχος and φωνή.
- brygmus**, gnashing of teeth, fr. βρούζω, to gnash.
- bulim'ia**, fr. βοῦς, an ox; ravenous appetite.
- ca'lyx**, fr. κάλυξ, a cup.
- ceph'alotribe**, a head crusher, fr. κεφαλή, head, and τρέιβω, to rub to powder.
- chi'asm**, formation of letter *chi* (*X*).
- chloas'ma**, formation of yellow color on skin, fr. χλωρός, yellow.
- choled'ochus**, gall receiver, fr. χολή, bile, and δέχομαι, to receive.
- chol'era**, lit. the bilious disease, ή χολερόη (νόσος).
- chore'a**, fr. χοροαία, a choral dance; St. Vitus' Dance.
- chro'mium**, fr. χρωμα, color; the colored element.
- clys'ter**, that which washes away (κλυστήρ); enema.
- coc'cus**, fr. κόκκος, a berry; cochineal.
- codei'na**, fr. κοδεία, a poppy head; an alkaloid of opium.
- col'lagen**, the glue (κόλλα) making substance.
- coma**, fr. κόμη, a mask; stupor.
- cory'za**, fr. κόρηση, forehead, and ζέω, to boil; cold in head.
- cre'osote**, κρέας, meat, and σώζω, to preserve; oil of smoke.
- cre'atin**, an extractive from flesh (κρέας).
- cryptor'chis**, having a concealed (κρυπτός) testicle (όρχις).
- dolichoceph'alus**, having long (δολιχός) head (κεφαλή).
- dynamom'eter**, a force (δύναμις) measurer (μήτρον).
- echinococ'cus**, lit. a hedge-hog berry, fr. έχίνος, a hedge-hog; embryo of tape worm.
- emprosth'onos**, a stretching forward (έπρροσθεν) spasm.
- en'terolith**, stone-like fæces in intestine, fr. λίθος, a stone.

- erythe'ma**, redness of skin, fr. ἐρυθρέω, to blush.
- eschar**, a scab from a burn, fr. ἐσχαρόω, to scab over.
- eu'nuch**, lit. a bed keeper, fr. εὐνή, a bed, and ἔχω, to keep.
- gan'grene**, lit. an eating away (γάγγραινα).
- graph'ite**, writing stone, plumbago, fr. γράφω, to write.
- hæmop'tysis**, spitting blood, fr. πτύω, to spit, and αἷμα, blood.
- hem'orrhoid**, resembling a flow of blood, first applied to bleeding piles, fr. αἱμαρρέω, to flow blood.
- hal'ogen**, salt making, fr. ἅλις, salt, and γεννάω, to make.
- hectic**, habitual, constitutional, fr. ἕξις, a habit.
- her'nia**, dim. cf. ἕρνος, a breach, a rupture.
- herpes**, fr. ἕρπω, to creep; a skin disease, "shingles."
- Hippoc'rates**, lit. a horse driver, fr. ἵππος, a horse, and κρατέω, to govern, "the Father of Medicine.
- hip'pus**, a constant winking, as seen in the horse (ἵππος).
- hy'datid**, lit. a watery vesicle, fr. ὑδαρίς, a cyst containing water.
- hydroceph'alus**, lit. water head (ὑδωρ and κεφαλή), dropsy of brain.
- hy'drogen**, water (ὑδωρ) making (γεννάω).
- hydronephro'sis**, watery collection about kidney.
- hydropericar'dium**, watery serum in pericardium.
- hy'giene**, fr. ὑγεία, health; cognate with Sanskrit *ugras*, strength. Hygeia was the daughter of Æsculapius.
- hyphom'yces**, web fungus, from ὑψος, a web, and μύκης, fungus.
- idiosyn'crasy**, from ἴδιος, one's own, συγχροᾶσις, mixing together; temperament.
- i'odine**, fr. ἰωδής, violet-like, fr. ἴον, a violet; an element.
- kinesither'apy**, movement (κίνησις) cure (θεραπεία).

kyes'tein or **cyes'tein**, from *κύησις*, pregnancy, and *ἔσθής*, clothing; a substance in urine of pregnant women.

lagophthal'mia, hare (*λαγώς*) eye; inability to close eye.

lagos'toma, hare (*λαγώς*) mouth (*στόμα*); harelip.

lec'ethin, a substance found in yolk of egg (*λέκθος*) and brain.

lepra, lit. the scaly disease, fr. *λέπος*, a scale; leprosy.

lep'tothrix, lit. a delicate (*λεπτός*) hair (*θρίξ*); a microphyte.

leu'cocyte, a white cell or blood corpuscle from *λευκός*, white, *κύτος*, cell.

lupus, fr. *λύπη*, pain, contracted from *lypsis*, certainly not the Latin *lupus*, a wolf; painful eating ulcer.

lyssa, rabies, fr. *λύσσα*, madness.

macroscop'ic, seen from a distance, fr. *μακρός*, long.

melæ'na, black (*μέλας*) vomit.

melano'sis, deposit of black pigment; black jaundice.

melas'ma, blackness from a contusion.

mias'ma, a pollution of the air, fr. *μάζω*, to pollute.

micrococ'cus, a small (*μικρός*) berry (*κόκκος*), spherobacterium.

neurilem'ma, nerve sheath or bark (*λέμμα*).

neurog'lia, nerve glue (*γλία*).

niphlotyphlo'tes, snow (*νίφα*) blindness (*τυφλώτης*).

olec'ranon, (*ὠλένη*) ulna (*κράνος*) head.

orthoped'ic, fr. *ὀρθόω*, to straighten, and *παῖς*, a child.

orthopnœ'a, *ὀρθός*, upright position, and *πνοία*, breathing.

os'teoblast, a bone (*ὀστέον*) bud (*βλάστημα*).

o'tolith, a stone (*λίθος*) found in ear (*ὄζ*).

oxyú'res, worms with sharp (*ὀξύς*) tails (*ὄρα*).

ozæ'na, the name of a stinking sea fish (*ὄζαίνα*); fetid nasal catarrh.

o'zone, fr. *ὀζω*, to stink; modified oxygen.

pachybleph'aron, thick (*πσχύς*) eyelids (*βλέφαρα*).

- pæd'erasty**, unnatural love (*ἔραστία*) of boys (*παίδες*).
- pæd'iatry**, the art of child (*παῖς*) curing (*ιατρεία*).
- pathet'ic**, pertaining to the feelings (*πάθος*).
- pathognomon'ic**, belonging to a symptom by which we know (*γινώσκω*) a disease.
- pem'phigus**, a skin disease characterized by blisters (*πέμφιγος*).
- phagedæ'na**, an eating sore, fr. *φάγω*, to eat.
- phar'macy**, the art of preparing drugs (*φάρμακα*).
- pharmacopœ'a**, lit. drug making, fr. *ποιέω*, to make.
- phlyctæ'na**, a blistered sore (*ψύχταινα*).
- placen'ta**, Latinized fr. *πλακούντις*, a cake; afterbirth.
- pleomas'tia**, supernumerary nipples, fr. *πλέον*, more, and *μαστός*, breast.
- pleth'ora**, fullness, fr. *πλήθος*, full.
- pleurosthot'onos**, a spasm (*τόνος*) drawing to the side (*πλευροσθθεν*).
- ple'ximeter**, a stroke (*πλήξις*) measure (*μέτρον*).
- pneumo-tho'rax**, air (*πνεῦμα*) in the chest (*θώραξ*).
- pom'pholyx**, a bubble-like eruption on skin (*πομφόλις*, a bubble).
- pseudoplas'ma**, from *ψευδής*, false, abnormal (*πλάσμα*) formation.
- pteryg'ium**, a wing-like (*πτέρυξ*) growth on eyeball.
- pto'maine**, an alkaloid obtained from a corpse (*πτῶμα*).
- pyotho'rax**, pus (*πύον*) in the chest (*θώραξ*), *i. e.* in pleural cavity.
- rhin'othrix**, a nose hair (*ρίξ*, nose, *θρίξ*, hair).
- rhoncus**, a snoring sound (*ρόγχος*).
- sap'rophyte**, a putrefactive (*σαπρός*) plant (*φυτόν*).
- schizomyce'tes**, splitting (*σχίζω*) fungi (*μυκήτες*).
- scirrus**, a hard (*σκιρρός*) tumor; stone cancer.
- scolex**, an embryo of tapeworm, fr. *σκόληξ*, a worm.

scybalum, a faecal mass (*σκόβαλον*), fr. *ἔς κύνων βάλλαιν*, to throw to the dogs; the scavengers of ancient cities.

sialolith, salivary (*σίαλον*) calculus (*λίθος*).

skeleton, fr. *σκελετός*, dried; framework.

tetanus, lock-jaw, fr. *τείνω*, to stretch.

theca, a receptacle, sheath (*θήκη*).

thenar, palm, or sole (*θέναρ*), fr. *θείνω*, to strike.

therapeutics, from *θεραπεύω*, to wait upon, attend, cure; the science of curing diseases.

thrombus, a venous clot, fr. *θρόμβος*, a clot of blood.

tragus, a part of external ear covered with hair, from *τράγος*, a goat.

trichocephalus, a hair-headed parasite, from *θρίξ*, a hair, and *κεφαλή*, head.

trochanter, a roller, fr. *τροχάω*, to roll.

typhus, a fever with stupor (*τύφος*).

tyrotoxicum, cheese (*τυρός*) poison (*τοξικόν*).

ulceration, atrophy of gums (*ούλα*, gum, *άτροφία*).

zoster, a girdle, zone, fr. *ζωστήρ*.

CHAPTER VII.

HYBRID WORDS.

HYBRID words are those derived from two languages, a method of formation regarded as unscientific by philologists. The word *hybrid* is derived from the Greek *ὕβρις*, wantonness, violence, or rape, through the Latin *hybrida* or *hibrida*, a mongrel, or a person born of a Roman father and foreign mother. The classical writers were exceedingly careful to avoid words formed in this manner, and the Grecian orator, although allowed to coin new words from his own tongue with the greatest liberty, would have been greeted with hisses if not a shower of stones, had he committed the dreadful crime of using a hybrid word, such as medical men use daily when talking of *albuminuria* or *asafetida*. The Greeks called all foreigners barbarians, (*βάρβαροι*) not because they had long beards, *barbæ*, and needed the services of a barber, as is sometimes supposed, but because the languages of these strangers sounded to the Hellenic ear like *bah-bah-bah*, a kind of speech far beneath them. Demosthenes would no more have thought of forming a new word by uniting Greek and Latin than a Southern gentleman would think of marrying his daughter to the blackest negro on his plantation.

While the older classical medical terms were formed according to the strictest rules of etymology, many of these hybrids have of late been introduced into the language of medicine and taken a firm root in our literature. American physicians, particularly the specialists, are responsible for the great majority of these mongrels, possibly because of the cosmopolitan character of our

nation, but more probably on account of the total lack of philological training in this country. The specialist derives nearly as much pleasure from the coining of a new word as from the invention of a new instrument, although he usually evinces far less skill in his etymological than in his mechanical inventions.

The language of a science should be scientific in all particulars, and all hybrid words should be relegated to "*ψυχουριστῆς*," "*εὐταπαθιστῆς*," and other nondescript practitioners. *Vaginitis*, for example, is quite as improperly formed as *digititis*, or *fingeritis*, yet *vaginitis* is used by the best medical scholars, while *fingeritis* or *nositis* would be ridiculed by the most illiterate of practitioners. With the dictionaries of Greece, Rome and France open for our use in selecting and forming new scientific words, there is no occasion for the introduction of these hybrids.

In a few instances it would be somewhat difficult to find a proper substitute for these hybrid words. *Albuminuria*, for example, is both euphonic and expressive, although composed of the Latin *albumen* and the Greek *-ουρία*. If we attempt to convert this into a pure Greek word we may have *synovuria*, from *συνῶρον*, white of egg, or on the other hand, we might use the pure Latin, *albuminurina*.

We give below a list of common hybrids with their derivation and pure Greek equivalents, using quotation marks when the word is not found in the medical dictionaries.

antifeb'rine, fr. Gk. *ἀντί*, against, and Lat. *febris*, fever, antipyrine.*

cæci'tis, Lat. *cæcum* and Gk. *τίτις*, typhlitis.

* As "antipyrine" is applied to a different substance, *acetanilide* should be used instead of antifebrine.

- fibroid, Lat. *fibra* and Gk. *εἶδος*, "inoid."
 fibro'ma, Lat. *fibra* and Gk. *-ωμα*, inoma.
 oros'copy, Lat. *os*, mouth, and Gk. *σκοπία*, "stomatoscopy."
 ovari'tis, Lat. *ovarium* and Gk. *ἴτις*, oophoritis.
 parova'rium, Gk. *παρά* and Lat. *ovarium*, "paroophorum."
 ptæsystol'ic, Lat. *præ* and Gk. *συστολικός*, "prosystolic."
 spec'troscope, Lat. *spectrum* and Gk. *σκοπία*, "idoscope."
 tonsillot'omy, Lat. *tonsilla* and Gk. *τομία*, amygdalotomy.
 tuberculo'sis, Lat. *tuberculum* and Gk. *-ωσις*, "phymatosis."
 uvuli'tis, Lat. *uvula* and Gk. *ἴτις*, staphylitis or cionitis.
 uvulot'omy, Lat. *uvula* and Gk. *-τομία*, staphylotomy or
 cionotomy.
 vaginis'mus, Lat. *vagina* and Gk. *-ισμος*, colpismus or
 elytrismus.
 vagi'nocele, Lat. *vagina* and Gk. *κήλη*, colpocele.
 vulvi'tis, Lat. *vulva* and Gk. *-ίτις*, aedœitis feminina.

CHAPTER VIII.

NOMENCLATURE.

NOMENCLATURE is the art of properly arranging and applying a set of distinctive and significant words as the names of particular objects in a science. In botany, for example, it gives the correct names to the various families, genera, and species of plants. Each plant has a *generic* and a *trivial* name, thus in *Spigelia Marilandica*, *Spigelia* designates the genus and *Marilandica* the species of that genus to which the plant belongs. In medical nomenclature no particular system has been adopted. The elementary branches of medical science have required centuries for their development and the numerous hypotheses advanced have all had an influence upon terminology. Even in the naming of diseases and pathological lesions there is no uniformity although various nosologies have been proposed. In anatomy, however, although one of most ancient branches of our science, we find names applied quite systematically, and as anatomical terms are the basis of all nomenclatures in medicine we will devote a few pages to their classification.

I. Nomenclature of Bones.

Bones are named (1) from their form or resemblance to some object, (2) from their location, and (3) from some other peculiarity.

1. Bones with names derived from their form:

astrag'alus, (*ἀστράγαλος*, a vertebra); ankle bone.

axis, fr. Greek *ἄξων*, an axle; second vertebra.

clavic'ulum, dim. of *clavis*, a key; Greek *κλειζ*, root *cleid*;
collar bone.

- coccyx, Greek κοκκύς, cuckoo; tail bone.
 costæ, Greek πλευραί, from πλευρόν, side; ribs.
 fib'ula, Greek περονή, root *perone*, a clasp; brace bone.
 il'ium, εἰλσόν, twisted; haunch bone.
 incus, fr. *incutio*, to strike; anvil bone.
 mal'leus, fr. Aryan *mal*, to strike; hammer bone.
 os cuboida'le, κυβωδής, cube-shaped; cuboid bone.
 os cuneifor'me, from *cuneus*, a wedge, and *forma*, shape;
 cuneiform.
 os ethmoida'le, fr. ἕθμοιδής, sieve-like; ethmoid.
 os hyoi'des, fr. υ, upsilon, and εἶδος, form; *u*-shaped bone.
 os magnum, great carpal bone.
 os parieta'le, fr. *paries*, a wall; wall bone.
 os pisifor'me, fr. *pis*, a pea, and *forma*, shape; pea-
 shaped.
 os sphenoida'le, σφηνωδής, wedge-shaped; sphenoid.
 os scaphoida'le, σκαφωδής, skiff-shaped; scaphoid.
 os semiluna're, *semi*, half, *luna*, moon; semilunar.
 os turbina'tum, fr. *turba*, a top; top-shaped bone.
 os trapezoi'des, τραπεζωδής, table-like; trapezoid.
 os uncifor'me, fr. *uncus*, a hook, and *forma*, shape; hook-
 shaped.
 patel'la, dim. of *patina*, a pan; knee pan.
 pelvis, Greek πυνελός, a basin; pelvis.
 phalan'ges, Greek φάλαγγες, batallions; finger bones.
 ra'dius, lit. a spoke or ray; forearm bone.
 scap'ula, Gk. σκαπαλός, a small shovel; shoulder blade.
 sternum, Gk. στέρνον, flat, Sansk. *stirnam*; breast bone.
 stapes, allied to *sto*, to stand; stirrup bone.
 tib'ia, lit. a flute, Greek τυγμή, root *cucm*; shin bone.
 trape'zium, fr. τέτρα, four, and ποῦς, a foot, a table; square
 wrist bone.
 vomer, lit. a ploughshare.

2. *Bones with names derived from their location:*

- is'chium**, Greek ἰσχίος, the haunch; hip bone.
os calca'neum or **calcis**, fr. *calx*, the heel; heel bone.
os fem'oris, lit. bone of thigh; thigh bone.
os fronta'le or **frontis**, fr. *frons*, forehead; forehead bone.
os hu'meri, fr. ὤμος, the shoulder; arm bone.
os lachryma'le, fr. *lachryma*, a tear; lachrymal bone.
os mala're, fr. *mala*, cheek; cheek bone.
os maxilla're infe'rius, Gk. μῦλον, (root *myl*), a mill.
os maxilla're supe'rius, upper jaw bone.
os nasa'le, fr. *nasus*, nose; nasal bone.
os occipita'le, fr. *occiput*, base of head; occipital bone.
os palata'le, fr. *palatum*, palate; palatal bone.
os pubis, fr. *pubes*, hair, Gk. πεκτήν (*pectin*); pubic bone.
ulna, fr. Greek ὀλένη, elbow; elbow bone.

3. *Miscellaneous:*

- Atlas**, Greek Ἄτλας, the world-supporting giant; first vertebra.
os innomina'tum, fr. *in*, not, *nomino*, to name; unnamed bone.
ossa Wormia'na, fr. *Wormius*, who first described them; Wormian bones.
sacrum, Greek ὁστέον ἁγίον, holy bone; sacred or cursed.
ver'tebra, fr. *verto*, to turn; spindle bone.

II. *Nomenclature of Muscles.*

Muscles are named (1) from their form, (2) from their action, and (3) from their attachment or location. The names of muscles are used adjectively and are always in the masculine gender agreeing with *musculus* understood.

1. *Form or some peculiarity:*

- az'ygos**, Greek ἄζυγος, without a fellow.
biceps, *bis* double, *caput* headed.

biven'ter, *bis*, double, *venter*, belly.

complex'us, lit. woven together, fr. *complecto*.

deltoid'eus, Greek *δελτοειδής*, delta (Δ) shaped.

diaphrag'ma, Greek *διαφράγμα*, a partition.

digas'tricus, Greek *δίζ*, double, *γαστήρ*, belly.

gemel'lus, dim. of *geminus*, a twin :

superior, upper.

inferior, lower.

grac'ilis, slender.

latis'simus dorsi, broadest m. of back.

longis'simus dorsi, longest m. of back.

longus colli, long m. of neck.

lumbrica'les, lit. fr. *lumbricus*, a worm; worm-shaped.

multif'idus spinæ, the m. of the spine split many times.

obliq'uus exter'nus, the external oblique.

obliq'uus internus, the internal oblique.

obtura'tor, *stopper* :

externus, the external.

internus, the internal.

orbicula'ris oris, circular muscle of mouth.

orbicula'ris palpebra'rum, circular muscle of eyelids.

platys'ma myoi'des, Greek *πλάτυσμα μυοειδής*, the muscle-like expansion.

pyramida'lis, fr. Gk. *πυραμής*, a pyramid; pyramidal.

pyriformis, pear-shaped.

quadra'tus, *square* :

femoris, of thigh.

lumborum, of loins.

rectus, *straight* :

abdominis, of abdomen.

capitis anticus major, larger anterior, of head.

capitis anticus minor, smaller anterior, of head.

capitis lateralis, lateral, of head.

capitis posticus major, larger posterior, of head.

capitis posticus minor, smaller posterior, of head.

externus, external.

femoris, of thigh.

inferior, inferior.

internus, internal.

superior, upper.

rhomboides, *rhomb-shaped*:

major, larger.

minor, smaller.

scalenus, *irregular triangular*:

anticus, anterior.

medius, middle.

posticus, posterior.

semimembranosus, half membranous.

semitendinosus, half tendinous.

serratus, *toothed*:

magnus, large.

posticus inferior, lower posterior.

posticus superior, upper posterior.

soleus, sole-shaped, fr. *solea*, a sole or sole fish.

splenius, *spleen-shaped*:

capitis, spleen-shaped, of head.

colli, spleen-shaped, of neck.

transversus perinæi, transverse, of perineum.

transversalis, *transverse*:

abdominis, of belly.

lumborum, of loins.

cervicis, of neck.

pedis, of foot.

teres, *round*:

major, larger.

minor, smaller.

trapezius, Greek *τράπεζα*, a table; table-shaped.

triangularis sterni, triangular, of breast-bone.

triceps, three headed, fr. *tris*, triple, and *caput*, head.

vastus, large :

externus, external.

internus, internal.

2. *Uses*. Muscles were first classified according to their function by Galen.

abduc'tor, leader away :

minimi digiti, of little finger.

pollicis, of thumb or great toe.

accelera'tor uri'næ, hastener of the urine.

adduc'tor, leader to :

brevis, short.

longus, long.

magnus, large.

pollicis manus, of thumb.

pollicis pedis, of great toe.

attol'lens aurem, lifting up the ear.

at'rahens aurem, drawing to the ear.

buccina'tor, trumpeter, because used in inflating cheek.

compres'sor naris, presser together of nostril.

constric'tor ure'thræ, drawer together of urethra.

corruga'tor supercil'ii, wrinkler of eyebrow.

cremas'ter, Greek *χορμωστήρ*, the suspender (of testicle).

depres'sor, presser down :

alæ nasi, of side of nose.

anguli oris, of corner of mouth.

labii inferioris, of lower lip.

dila'tor naris, expander of nostril.

erec'tor spinæ, straightener of spine.

exten'sor, extender :

brevis digitorum, short extender of fingers.

carpi radialis brevior, shorter radial extender of wrist.

carpi radialis longior, longer radial extender of wrist.

carpi ulnaris, ulnar extender of wrist.

communis digitorum, common extender of fingers.

indicis, extender of first finger.

longus digitorum, long extender of fingers.

minimi digiti, extender of little finger.

ossis metacarpi pollicis, extender of metacarpal bone of thumb.

proprius pollicis, proper extender of thumb.

primi internodii pollicis, extender of first bone of thumb.

secundi internodii pollicis, extender of second bone of thumb.

flexor, bender :

accessorius, accessory or additional.

brevis digitorum, short, of fingers.

brevis minimi digiti manus, short, of little finger.

brevis minimi digiti pedis, short, of little toe.

brevis pollicis manus, short, of thumb.

brevis pollicis pedis, short, of great toe.

carpi radialis, radial, of wrist.

carpi ulnaris, ulnar, of wrist.

longus digitorum, long, of fingers.

longus pollicis manus, long, of thumb.

longus pollicis pedis, long, of great toe.

profundus digitorum, deep, of fingers.

sublimis digitorum, superficial, of fingers.

leva'tor, lifter :

anguli oris, of corner of mouth.

anguli scapulæ, of corner of scapula.

ani et prostatae, of anus and prostate.

ani et vaginae, of anus and vagina.

costarum, of ribs.

labii superioris alæque nasi, of upper lip and side of nose.

labii superioris proprius, the proper lifter of upper lip.
menti, of chin.

palati, of palate.

palpebræ superioris, of upper eyelid.

masse'ter, Greek *μασσητήρ*, the masticator, chewer.

oppo'nens, *opposing*:

minimi digiti, of little finger.

pollicis, of thumb.

prona'tor, *turner downward*:

quadratus, square.

radii teres, round, of radius.

ret'rahens aurem, drawing back the ear.

riso'rius, the laughing muscle, fr. *ridco*, to laugh.

sarto'rius, the tailor muscle, fr. *sartor*, a tailor, because used in crossing the legs as tailors do.

sphincter, *drawer together*, fr. *σφιγγω*, to tie up a bag:

ani externus, external compressor of anus.

ani internus, internal compressor of anus.

vaginæ, compressor of vagina.

tensor, *stretcher*:

palati, of palate.

vaginæ femoris, of sheath of thigh.

3. *Location and attachment*:

ancone'us, fr. Greek *ἀγκών*, the elbow; elbow muscle.

arytenoi'deus, Gk. *ἀρυτενοειδής*, pitcher-like; attached to arytenoid cartilage.

brachia'lis anti'cus, anterior arm.

cervica'lis ascen'dens, ascending neck.

coccyge'us, coccygeal muscle.

cor'aco-brachia'lis, attached to coracoid process and arm.

crico-thyroi'deus, attached to cricoid and thyroid cartilages.

- crure'us**, leg muscle, fr. *crus*, the leg.
- gastrocné'mius**, calf of leg m., fr. γαστήρ, belly, and
κνήμη, leg.
- genio-hyo-glos'sus**, (Gk. γενεῖο-ῥο-γλωσσο) attached to
chin, hyoid, and tongue.
- genio-hyoid'eus**, Gk. γενεῖον and ὑοιδής, attached to chin
and hyoid.
- glute'us**, fr. Greek γλουτοί, *buttocks* :
maximus, largest buttock.
medius, middle buttock.
minimus, smallest buttock.
- hyo-glos'sus**, Gk. ὑοιδής and γλωσσο, attached to hyoid
and tongue.
- ili'acus**, iliac muscle, fr. *ilium*, haunch bone.
- infraspina'tus**, below the spine (of scapula).
- intercosta'les**, *between the ribs* :
externi, external.
interni, internal.
- supina'tor**, *layer on the back* :
brevis, short.
longus, long.
- interos'sei manus vel pedis**, between the bones of hand
or foot.
- interspina'les**, between the spines of the vertebræ.
- intertransversa'les**, between the transverse processes of
vertebræ.
- is'chio-caverno'sus**, attached to ischium and corpus cav-
ernosum.
- mylo-hyoi'deus**, Greek μῦλον, lower jaw; attached to
lower jaw and hyoid.
- occip'ito-fronta'lis**, attached to occiput and frontal bone.
- omo-hyoi'deus**, Greek ὄμος, shoulder; attached to
shoulder and hyoid.

palma'ris, *palmar*:

brevis, short.

longus, long.

pala'to-glos'sus, attached to palate and tongue.

pala'to-pharyn'geus, attached to palate and pharynx.

pectine'us, Greek *πεκτήν*, the pubic bone; attached to pubic bone.

pectora'lis, *belonging to chest*:

major, greater chest muscle.

minor, lesser chest muscle.

perone'us, *fibular*, fr. *περόνη*, fibula:

brevis, short.

longus, long.

tertius, third.

planta'ris, belonging to sole (*planta*) of foot.

poplite'us, located near *poplites* or ham-strings.

psaos (Greek *ψαδ*) *the loin*:

magnus, large.

parvus, small.

pterygoi'deus:

externus, attached outside of pterygoid process.

internus, attached inside of pterygoid process.

sacro-lumba'lis, attached to sacrum and loin.

salpin'go-pharyn'geus, attached to Eustachian tube and pharynx.

semispina'lis, *attached half to spine*:

colli, of neck.

dorsi, of back.

spina'lis dorsi, attached to spine of back.

sterno-cleido-masto'i'deus, attached to breast bone, clavicle, and mastoid process of temporal bone

sterno-hyo'i'deus, attached to sternum and hyoid.

sterno-thyroi'deus, attached to sternum and thyroid cartilage.

stylo-glos'sus, attached to styloid process and tongue.

stylo-hyoï'deus, attached to styloid process and hyoid bone.

stylo-pharyn'geus, attached to styloid process and pharynx.

subcla'vius, located under the clavicle.

subcrure'us, located under the crureus muscle.

subscapula'ris, located under the scapula.

suprascapula'tus, located over the spine of scapula.

tempora'lis, attached to temporal region.

thyro-arytenoi'deus, attached to thyroid and arytenoid cartilages.

thyro-hyoï'deus, attached to thyroid cartilage and hyoid bone.

tibia'lis, *attached to tibia:*

anticus, attached to tibia in front.

posticus, attached to tibia behind.

trache'lo-mastoi'deus, attached to neck and mastoid process.

zygomat'icus, *attached to zygoma:*

major, greater.

minor, lesser.

III. *Nomenclature of Arteries.*

Arteries are named (1) from their location, (2) from the parts which they supply, and (3) from some peculiarity in their form or position.

The names of arteries are always feminine agreeing with *arteria* expressed or understood.

I. *Location:*

axilla'ris, located in axilla.

axis cœli'aca, belly axis of arteries.

basila'ris, located on basilar process of occipital bone.

perone'al, fibular.

sciat'ica, fr. ἰσχυατική, the haunch or thigh.
subscla'vian, under the clavicle.
submenta'lis, under the chin.
superficia'lis volæ, superficial of palm, *vola*.

2. *Parts supplied:*

alveola'ris, supplying tooth sockets, *alveoli*.
bucca'lis, supplying mouth, *bucca*.
cys'tica, supplying gall bladder.
gas'trica, supplying stomach.
hemorrhoida'lis, supplying the hemorrhoids of rectum.
hepat'ica, supplying liver.
phren'ica, supplying diaphragm (φρήν.)
pu'dica, supplying *pudenda* or genitals.
rani'na, supplying *rana* or tip of tongue; lit. the *frog*.

3. *Miscellaneous:*

aor'ta, Greek ἀορτή, from ἀείρω, to rise up.
anastomat'ica, anastomosing, inosculating.
corona'ria, surrounding mouth or heart like a crown,
corona.
carot'ida, fr. Gk. χαρόω, to throttle, fr. χάρα, to head.
circum'flex, bending around, fr. *circumfligo*.
innomina'ta, located in a place unnamed and supplying
 no particular part.
recur'rens, running back.

IV. *Nomenclature of veins.*

The names of veins are formed in the same manner as those of arteries and are likewise feminine, agreeing with *vena*, expressed or understood. In the majority of cases the names of the veins are identical with those of the arteries in the same location. We give below the names of veins derived from some peculiarity:

fasil'ica, fr. βασιλικός, royal; large.

cava, hollow, because usually found empty after death.

cephal'ica, because opened in diseases of the head.

jugula'ris, fr. *jugulum*, a name for throat; fr. *jugum*, a yoke.

saphe'na, Gk. σαφηνής, clear; manifest; because easily seen through skin.

venæ com'ites, companion veins, because accompanying arteries.

venæ Gale'ni, veins of Galen because discovered by him.

vena portæ, the vein of the *gate* of liver.

V. *Nomenclature of Nerves.*

Nerves are named (1) from their function, (2) from their location, (3) from the parts which they supply, and (4) from some peculiarity. The names of nerves are always masculine agreeing with *nervus* expressed or understood. We give examples of each method of formation.

1. *Function:*

audito'rius, fr. *audio*, to hear; the hearing nerve.

gustato'rius, fr. *gusto*, to taste; the tasting nerve.

op'ticus, fr. Greek ὄπτω, to see; the seeing nerve.

olfacto'rius, fr. *olfacere*, to smell; the smelling nerve.

pathet'icus, fr. Gk. πάθος, feeling; the nerve which expresses the feelings by the eye.

sympathet'icus, the harmonizing nerve (συμπάθομαι, to feel together).

2. *Location:*

auricula'ris, belonging to ear.

facia'lis, belonging to, also supplying face.

hypoglossa'lis, located under (ὑπό) the tongue (γλῶσσα).

media'nus, the middle nerve of arm, fr. *medius*, middle.

menta'lis, located on chin (*mentum*).

sciat'icus, located on thigh or haunch (*ἰσχίον*).

3. *Part supplied:*

abdu'cens, supplying external rectus; abductor of eye.

glosso-pharyngea'lis, supplying tongue and pharynx.

genito-crura'lis, supplying genitals and leg.

musculo-cuta'neus, supplying muscles and skin.

pneumo-gas'tricus, supplying air-passages and stomach.

trochlea'ris, supplying the trochlear or superior oblique muscle.

4. *Miscellaneous:*

descen'dens noni, descending branch of ninth cranial.

mus'culo-spira'lis, twisting around downward and supplying muscles.

por'tio mollis sep'timi, soft part of seventh, auditory.

por'tio dura sep'timi, hard part of seventh, facial.

trigem'inus, triple, from *trigemini*, triplets.

Vidia'nus, named in honor of *Vidius*, an Italian anatomist.

VI. *Encephalological Nomenclature.*

In naming the parts of the brain no system has been adopted. The earlier anatomists believed that in the brain could be found the homologues of all the other parts of the body and this hypothesis has had a great influence upon the nomenclature. Other parts have been named from a fancied resemblance to some familiar object.

amyg'dala, Greek ἀμύγδαλη, an almond; a tonsil.

aqueduc'tus Syl'vii, conduit of Sylvius.

arach'noid, Greek ἀραχνοειδής, like a spider web.

arbor vitæ, tree of life.

bra'chium, Greek βραχίον, an arm.

cal'amus scriptori'us, Greek καλαμός, a reed, writing pen.

- cap'sula, dim. of *capsa*, a box.
 centrum majus, larger center.
 centrum minus, smaller center.
 centrum ova'le, oval center.
 claustrum, a barrier, a sheet.
 clava, a club, a penis.
 cer'ebrum, the brain, cf. *κέφα*, the head.
 crebel'lum, dim. of *cerebrum*.
 choroid plexus, leather-like net work.
 cor'nua, horns.
 commissu'ra, a joining together.
 corpus denta'tum, toothed body.
 corpus callo'sum, callous body.
 corpus fimbria'tum, fringed body.
 corpus stria'tum, striped body.
 cor'pora genicula'ta, knee-like or bent bodies.
 cor'pora mammilla'ria, breast-like bodies.
 cor'pora quadrigem'ina, quadruplet bodies.
 crura cer'eбри, legs of brain.
 dura mater, hard mother or membrane.
 fissu'ræ, clefts.
 flocc'ulus, a tuft of wool.
 fornix, an arch; union, connection.
 funic'ulus, a small cord.
 falx cer'eбри, sickle of brain.
 genu, knee.
 hippocam'pus, Greek *ἵπποκάμπος*, a sea animal with a
 horse's head.
 infundib'ulum, a small funnel.
 iter e tertio ad quartum ventric'ulum, passage from the
 third to the fourth ventricles.
 lin'gula, small tongue.
 lam'ina cine'ria, ash-colored layer.
 lobus quadra'tus, square lobe.

- nates**, buttocks.
nodule, small knot.
nu'cleus cauda'tus, tailed kernel.
nu'cleus lenticula'ris, lentil-like kernel.
pedun'cula, little feet.
pia mater, tender mother or membrane.
pyram'idal body or **lobe**, pyramid-shaped body.
pin'eal gland, shaped like a pine cone.
pitu'itary body, mucus secreting body.
proces'sus e cerebello ad testes, process from small
 brain to testicles of brain.
pons Varo'lii, the bridge of Varolius.
raphe, a seam.
rostrum, a beak or prow.
rest'iform body, rope-like body.
septum lu'cidum, transparent partition.
sple'nium, spleen.
striæ acus'ticæ (Gk. *ἀκουστικαί*) auditory stripes.
tæ'nia semicircula'ris, semicircular ribbon.
testes, testicles.
thal'amus (Greek *θαλαμός*) a marriage bed.
tuber cine'reum, ashy protuberance.
tento'rium, a tent.
u'vula, a small grape, the uvula.
velum interpos'itum, the interposed veil.
vallec'ula, small valley.
ven'tricles, small stomachs.
vulva cere'bri, vulva of brain.

PART IV.
ELEMENTS DERIVED FROM THE MODERN
LANGUAGES.

CHAPTER I.

THE FRENCH ELEMENT.

THE great majority of the foreign words found in our medical books are of French origin. Many of these words have been modified in form and have become essentially English words, both in appearance and pronunciation. For example, *dartrous*, a word applied to a diathesis in which there is a tendency to skin disease, is derived from the French *dartre*, from the Greek *δείρω*, to flay, or *δαρτός*, flayed. But besides these Anglicised French words, there are numerous examples of real foreigners in our language, and it is customary with scholars to pronounce these as they are pronounced in their native land. The first French words which found their way into English medical literature were terms applied to venereal diseases and obstetrics; then came the nomenclature of auscultation, which was adopted almost without alteration, and recently a number of neurological terms have been introduced.

The proper pronunciation of French words is a very difficult matter for English-speaking people. The nasal sounds are different from anything in our language. If you will pronounce our nasal *ng*, omitting the final hard *g* sound, you will have a sound very much like the French nasal. There are four of these nasal sounds in French, which may be indicated as follows:—

an, am, em and en, all pronounced *ōng*, somewhat as in *swān(g)*.

om and on, pronounced *ōng*, somewhat as in *dōn(g)*:

im, in, aim, ain, ien, yen, pronounced *āng*, somewhat as in *an(g)ry*.

um and un, pronounced *ūng*, somewhat as in *bun(g)*.

The French *u* is pronounced like the German *ü* (*ue*), there being no similar sound in English. *G* soft and *j* are pronounced like *z* in *azure* or *s* in *pleasure*.

There is no such thing as accent, as we use the term, in the French language; syllables all have nearly the same stress of voice. English speakers erroneously place an accent on the last syllable of French words.

In the following list of words we indicate the pronunciation by the ordinary sounds of English letters, designating the nasals by *ōng*, *ōng*, *āng* and *ūng*. In cases where the French pronunciation has been abandoned, this fact will be indicated by (Angl.) placed after the word.

ague (Angl.), originally acute fever, fr. Lat. *acutus*, sharp; sudden.

absinthe (āb-sāngt), a cordial containing wormwood, *absinthium*.

accoucheur (āc-cōō-shūr), an obstetrician; a noun derived fr. *accoucher*, fr. Lat. *ad collocare*, which meant to go to bed; since the 13th century used for going into child-bed.

ballottement (bāl-lōt-mōng), fr. *balloter*, to toss a ball, a term first used in tennis playing. *Ballottement* means, like the tossing of a ball, the fœtus bounding in the amniotic fluid.

bougie (bōō-zhē), lit. a wax candle made in *Bougie*, Algeria. A candle-like instrument or medicated cylinder to be introduced into cavities.

- bougie a boule** (bōō-zhē ä bōōl), a ball tipped bougie, fr. Latin *bullā*, a ball.
- bredouillement** (bréd-ōō-ē-yē-mōng), fr. *bredouiller*, to stammer. Very rapid speech.
- bruit** (brwē), a roaring noise, fr. Lat. *rugio*, to roar; a sound heard in auscultation.
- bruit de craquement** (brwē dě crāk-mōng), a crackling sound.
- bruit de cuir neuf** (brwē dě quēr nūf), new leather sound.
- bruit de diable** (brwē de de-ābl), devil's sound, applied to a musical murmur heard in anæmia.
- bruit de pot file** (brwē de pō fē-lā), cracked-pot sound.
- bruit de clapotement** (brwē de clā-pôt-mōng), swashing sound.
- bouillon** (bōō-ē-yōng), broth fr. *bouiller*, to boil, Lat. *bullire*.
- burette** (bū-rēt), a cruet, a chemical instrument.
- bruit de souffle** (brwē de sōōfl), bellows sound.
- bruit tympanique** (brwē tēm-pān-ēēk), drum sound.
- bubon d'emblee** (bwē-bōng dōng-blā), "bubo of onset," applied to buboes which precede the venereal disease.
- centigrade** (sōng-tē-grād), the name of a thermometric scale, fr. *centum*, 100 and *gradum*, step.
- chancre** Fr. (shōngkr) (Angl. shānker), a venereal sore, fr. Lat. *cancer*.
- chordee** (kōr-dā) fr. Lat. *chordatus*, corded, twisted.
- clairvoyance** (clār-voy-yōngs) lit. clear vision, "second sight."
- clinique** (klin-ēēk) lit. clinical, at the bedside; a lecture at the bedside.
- conduit** Angl. (cōn-dīt), fr. Lat. *conductus*, conductor pipe.
- consomme** (kōng-sōm-mā), fr. Lat. *consummatus*, complete; a thickened soup.

- contre coup** (cōngtr kōō), fr. Lat. *contra colpum*, against the blow, applied to injuries on opposite side of head from place where blow was received.
- coup de soleil** (kōō de sō-lā-yūh), Lat. *colpus de sole*, stroke from the sun, sun-stroke.
- craquement pulmonaire** (krāk-mōng puel-mōn-ār), pulmonary crackling sound.
- condom** (Angl. kōn-dōm), fr. the name of the inventor Dr Condom, a membranous cover for penis.
- chariere filiere** (shār-i-ār fêl-i-ār), Chariere's scale of urethral sounds. French scale.
- charbon** (shār-bōng), fr. Latin *carbo*, charcoal; *anthrax*.
- curette** (cuer-et), fr. *curer*, to clean; a scraper.
- charpie** (shār-pē), fr. Latin *carpere*, to pick; picked lint.
- coup de sang** (kōō de sōng), blood stroke; apoplexy.
- coup de vent** (kōō de vōng), wind stroke; sudden cold from exposure to wind.
- couveuse** (cōō-veuz), fr. *couver*, to hatch; an apparatus for rearing children prematurely born.
- cul de sac** (cuel de sác), bottom of a bag, blind pouch; fr. Lat *collum de sacco*, neck of a bag.
- choc en retour** (shōck ōng r'tōōr), return shock; a term applied to the infection of the mother by a syphilitic fœtus *in utero*.
- debris** (d'brēē), from *debriser*, to break down; *detritus*.
- douche** (dōōsh), fr. Italian *doccia*, a shower bath; a wash by means of a tube; an irrigation.
- dragee** (drā-zhā), lit. a sugar plum; a coated pill.
- ecraseur** (ēc-rā-zeur), from *ecraser*, to rub out; an instrument for crushing off a part.
- embonpoint** (ōng-bōng-pwōng), fr. Latin *in bono puncto*, in good condition; plumpness.
- enceinte** (ōng-sánt), fr. Latin *incincta*, girded up, pregnant
- ergot** (Angl.), lit. a spur of a bird; spurred rye.

- folie a deux** (fōlē ä deū), insanity of two in same family; quasi-infectious insanity.
- folie circulaire** (fō-lē sir-kue-lār), circular insanity; insanity with mania, melancholy, stupor and lucidity following regularly and repeatedly.
- fontenelle** (fōngt-nēl), fr. Latin *fontenella*, a little fountain; the soft part, not covered with bone, of an infant's head.
- fourchette** (fōōr-shēt), dim. of *fourche*, Lat. *forcus*, a fork.
- gavage** (gā-vāzh), fr. *gaver*, to stuff; forced alimentation.
- goitre** (Angl. goyter), fr. Latin *guttur*, the throat; enlargement of thyroid gland.
- gorget** (Angl.), fr. old French word meaning throat, *gorge*, from Latin *gurgēs*, a whirlpool; now applied to a beaked knife.
- grand mal** (grōng māl), great sickness; *epilepsia gravior*.
- jaundice** (Angl.), fr. *jaunisse*, yellowness of skin.
- lavage** (lā-vāzh), fr. *laver*, to wash; washing of cavities, especially the stomach.
- mal de mer** (māl dē mār), sea sickness.
- manie sans delire** (mānē sōng delēr), insanity without delirium; emotional insanity.
- massage** (mās-sāzh), from *masser*, to rub; treatment by shampooing and rubbing.
- masseur** (m) (mās-seūr), }
masseuse (f) (mās-seuz), } one who practices massage.
- mayhem**, Old French word meaning disfiguring.
- main en griffe** (māng ōng grēf), clawed hand; a symptom in some nervous affections.
- muguet** (mue-gwā), fr. *muscus*, musk; thrush.
- panaris** (pān-ār-ē), fr. Latin *panaricium*, a whitlow; now syphilitic disease of fingers; dactylitis.
- pomegranate**, (Angl.) fr. *pome*, apple, and *granate*, seeded.
- perleche** (pār-lēsh), fr. *perlecher*, to lick; a contagious disease of the mouth.

- petit mal** (p'tē māl), small sickness, *epilepsia mitior*.
- physique** (fiz-ēēk), fr. *φυσικός*, natural; the natural form.
- rale** (röl), fr. *valer*, to rattle; a rattling, *rhonchus*.
- rale crepitant** (röl crā-pē-tōng), a crackling rattle.
- rale muqueuse** (röl mü-keūz), a mucous rattle.
- rale sibilant** (röl sē-bē-lōng), a whistling rattle.
- rale sonore** (röl sō-nōre), snoring rattle.
- serre fine** (sār fēēn), lit. fine teeth of a saw; a catch pin.
- souffle** (sōōfl), a breathing or bellows sound, fr. Latin *sufflare*, to blow up.
- tache cerebrale** (täsh sār-e-bräl), cerebral touch; an irritable condition of skin observed in nervous diseases.
- tampon** (tōng-pōng), a plug, for vagina.
- tic douloureux** (tēēk dōō-lōō-reū), painful fit; trigeminal neuralgia.
- tourniquet** (Angl. tour-nikēt), fr. *tourner*, to turn, a turnstile; an instrument for compressing arteries.
- trigone** (trē-gōn), fr. Gk. *τρίγωνία*, a triangle; triangular space of bladder.
- trocar** (Angl.), fr. *trois quarts* (trwä kār) three cornered; from the shape of the instrument.

THE METRIC SYSTEM.

The metric system of weights and measures first employed in France has been adopted by scientists throughout the world, and attempts have recently been made to have it adopted in dispensing and prescription writing.

The unit of the metric system is the *metre* (mātr), supposed to equal $\frac{1}{10000000}$ of the distance from the Equator to the Pole, or about 39.37 inches. The word *metre* is derived from the Greek *μέτρον*, a measure. The *metre* is strictly the unit of measures of length.

Fractional parts of the unit are expressed by prefixing the Latin *decimals*, *decem*, *centum* and *mille* to the unit. *Multiples* are derived from the Greek decimals, δέκα, ἑκατόν, χίλιος and μύριος.

The fractionals are abbreviated by taking the first letter of the decimal in small type and the first letter of the unit. The multiples are abbreviated by taking the Roman capital equivalent of the first letter of the Greek decimal and the small first letter of the unit.

The cube of a tenth part of a metre is taken as the unit of measures of capacity. This is called a *litre* (lĕtr), and is equal to about thirty-four fluid ounces. The word *litre* is derived from the Greek λίτρον, a weight equal to about twelve ounces avoirdupois.

The weight of a thousandth part of a litre of water at its maximum density (4 deg. C.) is taken as the unit of measures of weight and is called a *gramme* (grām.), from the Greek γράμμα, a weight equal to the Latin *scrupulus* or $\frac{1}{24}$ of an ounce. A cubic centimetre of water at its maximum density also weighs one gramme.

From these units the following tables have been constructed:—

I. Measures of Length.

Fractionals:

Millimetre (mm.) = $\frac{\text{metre}}{1000} = .039\frac{1}{5}$ in., nearly $\frac{1}{25}$ of an inch.

Centimetre (cm.) = $\frac{\text{metre}}{100} = .3937$ in., nearly $\frac{2}{5}$ of an inch.

Decimeter (dm.) = $\frac{\text{metre}}{10} = 3.937$ in., nearly 4 inches.

UNIT:

Metre (m.) = 39.37 in. about $3\frac{1}{4}$ ft.

Multiples:

Decametre (Dm.) = metre \times 10 = about 33 ft.

Hectometre (Hm.) = metre \times 100 = about 328 ft.

Kilometre (Km.) = metre \times 1000 = about $\frac{2}{3}$ of a mile.

Myriametre (Mm.) = metre \times 10000 = about $6\frac{1}{6}$ miles.

The French word *metre* is now often Anglicised as *mēter* and the numeral prefixes are pronounced as if they were pure English; thus, mil li mē-ter instead of mēel-mātr, sēn-tī-mē-ter instead of sōng-tē-mātr, etc. Since these words are so commonly used and so generally mispronounced as spelled in French, it is probably better to pronounce and spell them according to English methods.

II. Measures of Capacity.

Fractionals :

Millilitre (ml. or cc. for cu. centimetre.) = $\frac{\text{litre}}{1000}$ = about 16 minims.
 Centilitre (cl.) = $\frac{\text{litre}}{100}$ = f 3ij. ʒxl. nearly.
 Decilitre (dl.) = $\frac{\text{litre}}{10}$ = f 3iij. ʒiij. nearly.

UNIT :

Litre (l.) = O. ij. ʒij. nearly.

Multiples :

Decalitre (Dl.) = l. × 10 = O. xxi. ʒiij.
 Hectolitre (Hl.) = l. × 100 = C. xxvi.
 Kilolitre (Kl.) = l. × 1000 = about 8 bbls.

III. Measures of Weight.

Fractionals :

Milligramme (mg.) = $\frac{\text{gramme}}{1000}$ = gr. $\frac{1}{66}$ nearly.
 Centigramme (cg.) = $\frac{\text{gramme}}{100}$ = gr. $\frac{2}{13}$ nearly.
 Decigramme (dg.) = $\frac{\text{gramme}}{10}$ = gr. iss. nearly.

UNIT :

Gramme (Gm.) = gr. xvss. nearly.

Multiples :

Decagramme (Dg.) = Gm. × 10 = ʒij. gr. xxxiv. nearly
 Hectogramme (Hg.) = Gm. × 100 = ʒiij. ʒiss.
 Kilogramme (Kg.) = Gm. × 1000 = lb. ijss. nearly.
 Myriagramme (Mg.) = Gm. × 10000 = 27 lbs. nearly.

The units of the measures of capacity and weight are now often spelled *liter* and *gram*, and all fractional multiples are pronounced as if they were English words.

CHAPTER II.

WORDS DERIVED FROM OTHER MODERN LANGUAGES.

I. Words derived from the Italian.

A few Italian words have found their way into the English medical vocabulary. Many of these are so much like Latin words that they are commonly treated as such, yet they come indirectly from the Latin through the Italian. It is not customary to give these words the Italian pronunciation as they have become naturalized in our language and are really English words of Italian origin.

belladon'na, fr. *bella*, beautiful, and *donna*, lady, so called because used to dilate the pupils and give the eyes a bright appearance.

ber'gamot, fr. Italian *bergamotto*, a pear.

bun'ion, fr. Italian *bugnone*, a lump, allied to Scandinavian *bunki*, a bunch. Thomas derives bunion from the Greek *βούβιον*, a peanut.

cel'ery, fr. Italian *scleri*, fr. Greek *σέλινον*, parsley.

influen'za, lit. *influence*, or *flowing upon*; epidemic coryza.

Lazaret'to, plural *Lazaretti*, a pest-house, fr. the New Testament beggar, *Lazarus*.

mala'ria, fr. *mala*, bad, and *aria*, air or appearance; *mal'aria*, Latin *malus ær*, a miasm.

rube'ola, lit. "a little red berry," from the color of the spots, measles.

rose'ola, from Italian *rosiola*, measles, dim. of *rosa*, a rose; rose rash.

scarlati'na, fr. Italian *scarlattina*, from Persian *saqalat*, scarlet; scarlet fever.

seton, from Italian *setone*, a horse hair, of which setons were first made.

soda, an ash used in making glass, fr. Lat. *solida*, solid.
 trepan, fr. Italian *trepano*, a turnstile, from Greek *τρέπω*,
 to turn.

II. Words derived from the Spanish.

The Spanish words found in medical works are generally the names of medicinal plants. They are pronounced and treated as Latin words.

Angustu'ra, a bitter plant from Angostura, a city of Venezuela.

calisa'ya, a name for yellow Peruvian bark.

ca'cao, fr. the Mexican name of the chocolate tree.

cas'cara sagra'da, lit. sacred bark; buckthorn.

casca'ril'la, dim. of *cascara*, little bark; jesuits' bark.

copai'ba, fr. *copal*, a fragrant gum and *iba*, tree.

coch'ineal, fr. Spanish *cochinella*, dim. of Greek *κόκκος*, a berry, little berries, which they resemble.

damia'na, a fanciful derivation is "Dami Anna," "Give me Anna," a notorious prostitute in the town where this plant was first used as an aphrodisiac.

dengue (dāng-ga), lit. a short veil, so called because the eyes are sometimes affected in this disease as if a veil were thrown over them; breakbone fever.

hedeo'ma, fr. *heder*, to be odorous; pennyroyal.

guai'acum, fr. Sp. *guaiaco*, lignum vitæ.

guano, fr. Peruvian *huano*, dung.

jalap, fr. Sp. *Xalapa*, a town in Mexico.

manzani'ta, dim. of *manzana*, apple; crab apple.

plat'inum, fr. Sp. *plata*, silver.

sherry, fr. *Xeres*, a town in Spain from which this wine was exported.

sarsaparil'la, fr. Sp. *sarsaparilla*, "a little prickly vine,"
smilax.

vanil'la; fr. Sp. *vainilla*, a small sheath or pod; Latin
vaginella.

yerba buena, "good plant;" micromeria.

yerba santa, holy herb, fr. Lat. *herba sancta*; eriodictyon.

Xer'icum, fr. *Xeres*, cf. sherry.

III. Words of Portuguese Origin.

The Portuguese words found in medical works have in most instances come from South America. They are in their turn often derived from native Indian words.

cincho'na, named after the Countess of Cinchon; Peruvian bark.

guara'na, Paraguay tea; maté.

mona'ca, bone *manar*, to distil from, because it is supposed to distil disease from the system.

jaboran'di (zhäbörändë), pilocarpus.

porten'se, fr. *Oporto*, a city of Portugal.

pimen'ta, allspice, lit. a dark spiced drink, fr. Latin *pigmentum*, paint.

IV. Words of German origin.

Baunsheidt'ismus, fr. Dr. Baunsheidt, who invented this method of counter-irritation.

bismuth, fr. *wiszmuth*, "white mind," a metal.

cobalt, fr. *kobald*, a goblin; a metal.

Mes'merism, from *Mesmer*, the discoverer of the phenomenon.

rin'derpest, cattle plague.

rœtheln, dim. of *roth*, red; German measles.

zinc, allied to *zinn*, tin; a tin-like metal.

V. Words of Dutch origin.

litmus, fr. *lackmus*, a dyestuff.

man'ikin, dim. of man.

measles, dim. of *masa*, a spot.

mumps, fr. *mompen*, to sulk.

scalp, fr. *scalpe*, the scalp.

VI. Words of Scandinavian origin.

radezyge (räh'de-zägüh), lit. scab sickness; Norwegian leprosy.

skull, fr. Danish *skaal*, a basin.

thrush, fr. Icelandic *thurrish*, dryish; muguet.

tungsten, Swedish *tung*, heavy, and *sten*, stone; a metal.

Yt'trium, fr. *Ytterby*, a town in Sweden; a metal.

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