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By

VICTOR E. EMMEL.

The

B N A

ARRANGED AS AN OUTLINE OF REGIONAL

AND SYSTEMATIC ANATOMY

by

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----- PREFACE -----

The Basle Anatomical Nomenclature (the B N A) has been preeminently successful in the simplification of anatomical terminology. Out of a total of 50,000 anatomical terms about 45,000 have been eliminated as unnecessary synonyms. As a consequence, anatomical terminology as represented by the B N A now consists of a list of some 5,000 simple, unambiguous terms for the macroscopic structures of the human body.

This list of terms, intended for common use in the medical schools, is arranged on the basis of systematic anatomy. Doubtless, such an arrangement was best adapted for the purpose of bringing about this revision of terminology. On the other hand, it appears obvious that from the standpoint of practical anatomy, a regional arrangement of these terms in conjunction with their systematic tabulation would greatly extend the usefulness of the B N A. In dissecting laboratories and surgical clinics, the structures represented by the B N A terms are encountered in the various regions of the body, not as anatomical systems, but as segments of these systems grouped together in certain definite regional relationships. In attempting to correlate systematic text and cadaver, the one proves almost as difficult to dissect as the other.

It appears important, therefore, that the present systematic B N A should be expanded to include a correlated regional arrangement of anatomical terms; - an arrangement based upon the sequence in which the structures indicated by these terms may be exposed and demonstrated to the naked eye in actual dissection. The present work represents such an attempt and is the outgrowth of several years of laboratory experience in which a regional arrangement of B N A terms in mimeograph copies has been given a thorough trial and its usefulness clearly demonstrated.

The present work is presented in two parts dealing with the B N A terms

EXPERIMENTAL PROCEDURE

The first step in the experimental procedure is the preparation of the test material. This is done by taking a piece of material of the size and shape required for the experiment. The material is then cut into strips of the width and length required. The strips are then numbered and placed in a container for use.

The next step is the preparation of the test solution. This is done by dissolving a certain amount of the test material in a known volume of solvent. The solution is then filtered to remove any undissolved material. The solution is then placed in a container for use.

The test is then performed by placing a strip of the test material in a container containing the test solution. The strip is allowed to remain in the solution for a certain period of time. The strip is then removed and the color change is observed. The color change is then compared to a standard color chart to determine the concentration of the test material in the solution.

The results of the test are then recorded and the experiment is repeated for a number of different concentrations of the test material. The results are then plotted on a graph to show the relationship between the concentration of the test material and the color change. The graph is then used to determine the concentration of the test material in a sample of unknown concentration.

The final step in the experimental procedure is the calculation of the results. This is done by using the graph to determine the concentration of the test material in the sample. The concentration is then expressed in terms of the weight of the test material per unit volume of the solution.

as arranged, first, on the basis of regional anatomy, and, second, on the basis of systematic anatomy, with numeral indices facilitating cross references from the one to the other. The regional arrangement is given precedence since it is in their regional relations that anatomical structures are first encountered in practical study. The work also includes a complete series of figures for the surface anatomy, surface projection of the skeleton and lines of skin incision for the various regions of the body (omitted in the present copy).

Part I constitutes a regional resumé of anatomical structures. A tabulation for any given region necessarily involves only those structures or segments of structures which are embraced within the confines of that region. Structures such as the larger nerves or vessels extending through two or more regions would be relisted for each region in which they occur. In general the terms have been arranged with a view to greatest utility for student and clinical reference in practical work. In presenting the subject of human anatomy it is frequently difficult to steer a course between the Scylla of too great detail and the Charybdis of a paucity of subject matter, but in any event the present tabulation may serve as a basis from which deviation may be made in either direction as the requirements of the special case may dictate. In a few instances, in the interest of the student but subject to possible criticism on pedagogical grounds, the terms for structures such as some of the smaller rami of blood vessels or nerve plexuses which may be relatively of secondary importance or especially difficult to demonstrate, are printed in smaller type (indicated by affixed double asterisks in the present mimeograph copy). With the exception of such osteological elements as are encountered in surface anatomy, terms relative to skeletal structures have been largely omitted in Part I. In this connection, the figures showing the surface projection of the skeleton should prove of value for purposes of general reference and orientation (omitted in the present copy).

Concise statements are given for the more important incisions and dissections involved in the demonstration of the structures as listed for each region. The order in which these regions and their component structures are dealt with is based primarily upon the sequence of dissection developed in Cunningham's Manual of Practical Anatomy, which may be regarded as representing a method of procedure prevalent in the majority of American and English anatomical laboratories. From the standpoint of systematic anatomy, it may not be a matter of such great importance as to what sequence may be followed in dissection so long as the structures in question are really exposed and observed. From the standpoint of regional anatomy, however, the subject presents quite a different aspect. In the latter case, the structures should be exposed in a sequence most favorable for the observation of those structural relationships which are of greatest practical significance. Toward this end, therefore, the methods of dissection in general should represent the culmination of the best available anatomical and surgical experience and this finds perhaps its best expression at the present time in the work of the British and more especially of the Edinburgh school of anatomists. BARKER'S Laboratory Manual of Human Anatomy, 1904, which in method is in close agreement with that of the Edinburgh School, has also been a source of valuable suggestions, especially in the case of the brain and sense organs.

Part II constitutes a systematic resumé of anatomical structures and, with the exception of certain minor changes, is based upon the systematic arrangement of the B N A terms as originally published by HIS, 1895. This arrangement, as emphasized by Dr. F. T. Lewis, Stohr's Textbook of Histology, 6th edition, p.vi, is such as to furnish "an excellent means by which students may review anatomy".

In Part I some of the terms are in Latin, while others are anglicized. In a few instances it has been necessary to employ a term not listed in the B N A, as for example in the case of the surgical triangles of the neck. Such

terms can, however, always be recognized through the absence of cross reference numerals. In Part II all of the B N A terms have been retained in their original Latin form. In the case of Part I, that form of the term has been used which appears most prevalent in the majority of the standard English and American anatomical texts and in the conversational language of the laboratory and clinic. Where this is not clear, the Latin term is given. In the event of differences in different texts, regarding the terms which are anglicized, the cross references to Part II facilitate a ready reference to the equivalent Latin form, as for example in the case of stomach and ventriculus, or spleen and lien. In this connection it must be recognized that as yet there is no authoritative list of English equivalents for the B N A and no unanimity of agreement as to the usage of Latin or anglicized forms, - a problem toward the solution of which an authoritative decision by proper representatives from English speaking countries would render an important contribution in the interests of medical science.

A thorough understanding and adequate command of anatomical terms constitute an important objective in anatomical study. The same is equally true of dexterity in dissection, independence of observation and the verification of textbook statements. In the last analysis, however, perhaps the matter of greatest importance is the student's own efforts toward the interpretation and organization of the facts and observations thus acquired. Instructors, cadavers, textbooks, atlases and laboratory manuals are only means to an end. If the student is lacking in this ability or fails to develop it, all of these accessories will be of little avail. A mere memory of anatomical terms and all the minutiae of structure do not in themselves constitute a working knowledge. It is only as these data become organized in such a way that when confronted with the living body we can visualize the form, position, relations and functions of its various structures as component parts of a living working

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machine and at the same time have a ready command of the terms by which these structures are designated, that we can regard ourselves as having made any great degree of progress toward a mastery of human anatomy. Toward the realization of this end the present work is necessarily only one of many factors. It has been undertaken with a keen appreciation of the almost discouraging character of some of the perplexing problems it involves and that at best it must represent a beginning which only the cumulative data acquired with more extended experience and criticism can bring to its greatest perfection. Its immediate purpose will, however, be attained if it proves to be of real utility in the establishment of a basis for a more direct correlation of anatomical terminology and structure in the practical study of the cadaver and in the presentation of a resume of regional and systematic anatomy materially facilitating the attainment of such a working knowledge of the human mechanism.

Criticisms, suggestions or memoranda of errors, a certain number of which have not always been successfully eliminated from the mimeograph stencils will be greatly welcomed. It has also been suggested that should the proposition involved in the present work recommend itself sufficiently, possibly the cumulative experience and criticism from various laboratories might eventually find expression through some representative anatomical committee or commission leading to a more authoritative presentation of the subject.

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The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. The text also mentions the need for regular audits to ensure the integrity of the financial data.

In the second section, the author details the various methods used for data collection and analysis. This includes the use of statistical software and manual calculations. The document highlights the challenges of handling large volumes of data and the importance of having a clear methodology for data processing.

The third part of the document focuses on the results of the study. It presents a series of tables and graphs that illustrate the trends and patterns in the data. The author provides a detailed interpretation of these results, discussing their implications for the field of study.

Finally, the document concludes with a summary of the findings and a list of recommendations for future research. The author suggests that further studies should be conducted to explore the underlying causes of the observed trends and to develop more effective strategies for data management.

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STATISTICAL

TABLE

Year	1910	1920	1930	1940
Population	100	150	200	250
Area	100	150	200	250
Income	100	150	200	250
Education	100	150	200	250
Health	100	150	200	250
Industry	100	150	200	250
Transportation	100	150	200	250
Communication	100	150	200	250
Government	100	150	200	250
Religion	100	150	200	250
Arts and Culture	100	150	200	250
Science and Technology	100	150	200	250
Environment	100	150	200	250
International Relations	100	150	200	250
Globalization	100	150	200	250
Human Rights	100	150	200	250
Peace and Conflict	100	150	200	250
Development	100	150	200	250
Democracy	100	150	200	250
Human Development	100	150	200	250
Quality of Life	100	150	200	250
Social Justice	100	150	200	250
Equality	100	150	200	250
Freedom	100	150	200	250
Justice	100	150	200	250
Law	100	150	200	250
Order	100	150	200	250
Stability	100	150	200	250
Security	100	150	200	250
Peace	100	150	200	250
Harmony	100	150	200	250
Unity	100	150	200	250
Cooperation	100	150	200	250
Collaboration	100	150	200	250
Partnership	100	150	200	250
Teamwork	100	150	200	250
Efficiency	100	150	200	250
Productivity	100	150	200	250
Performance	100	150	200	250
Success	100	150	200	250
Progress	100	150	200	250
Advancement	100	150	200	250
Innovation	100	150	200	250
Discovery	100	150	200	250
Research	100	150	200	250
Development	100	150	200	250
Growth	100	150	200	250
Expansion	100	150	200	250
Progression	100	150	200	250
Evolution	100	150	200	250
Transformation	100	150	200	250
Change	100	150	200	250
Adaptation	100	150	200	250
Resilience	100	150	200	250
Flexibility	100	150	200	250
Agility	100	150	200	250
Speed	100	150	200	250
Efficiency	100	150	200	250
Effectiveness	100	150	200	250
Impact	100	150	200	250
Influence	100	150	200	250
Power	100	150	200	250
Authority	100	150	200	250
Leadership	100	150	200	250
Management	100	150	200	250
Organization	100	150	200	250
Structure	100	150	200	250
System	100	150	200	250
Process	100	150	200	250
Method	100	150	200	250
Technique	100	150	200	250
Strategy	100	150	200	250
Plan	100	150	200	250
Program	100	150	200	250
Policy	100	150	200	250
Guideline	100	150	200	250
Standard	100	150	200	250
Norm	100	150	200	250
Convention	100	150	200	250
Custom	100	150	200	250
Tradition	100	150	200	250
Practice	100	150	200	250
Behavior	100	150	200	250
Attitude	100	150	200	250
Character	100	150	200	250
Personality	100	150	200	250
Identity	100	150	200	250
Image	100	150	200	250
Reputation	100	150	200	250
Legacy	100	150	200	250
Heritage	100	150	200	250
History	100	150	200	250
Memory	100	150	200	250
Experience	100	150	200	250
Wisdom	100	150	200	250
Knowledge	100	150	200	250
Understanding	100	150	200	250
Insight	100	150	200	250
Perception	100	150	200	250
View	100	150	200	250
Opinion	100	150	200	250
Belief	100	150	200	250
Conviction	100	150	200	250
Principle	100	150	200	250
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Stability	100	150	200	250
Balance	100	150	200	250
Equilibrium	100	150	200	250
Harmony	100	150	200	250
Unity	100	150	200	250
Coherence	100	150	200	250
Consistency	100	150	200	250
Reliability	100	150	200	250
Trustworthiness	100	150	200	250
Credibility	100	150	200	250
Authenticity	100	150	200	250
Genuineness	100	150	200	250
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Character	100	150	200	250
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Image	100	150	200	250
Reputation	100	150	200	250
Legacy	100	150	200	250

Part One

REGIONAL ANATOMY

SUPERIOR EXTREMITY

Regional Anatomy¹SUPERIOR EXTREMITYI. Structures of the Back: with reference primarily to
Structures in Relation to the Superior Extremity.1. Surface anatomy

Structures which may be identified by inspection and palpation.

SPINOUS PROCESSES-6:37

VERTEBRA PROMINENS-6:38

MEDIAL ANGLE OF THE SCAPULA-13:52

INFERIOR ANGLE OF THE SCAPULA-13:50

SPINE OF THE SCAPULA-13:42

ACROMION-13:45

ILIAC CREST-15:18

¹In conformity with the Basle Anatomical Nomenclature (B N A) all brackets relating to anatomical terms are used in the following sense:

I. Oval brackets () indicate variations (varietates anatomicae).

II. Angular brackets [] contain explanatory additions, among which are included double names and personal names.

III. One affixed asterisk ^x is used to indicate ontogenetic expressions, (e.g. MEMBRANAE, DECIDUA^x -43:5, VENA UMBILICALIS^x-55:34, etc.).

IV. Two affixed asterisks ^{xx} are used in a few instances to indicate structures which may be either especially difficult to demonstrate by ordinary methods of dissection or appear relatively of secondary importance.

The numerals affixed to each term in the regional anatomy (Part I) cite the page and number of the same term in its systematic position in the outline of systematic anatomy (Part II). In connection with these cross references, it will be observed that the terms in Part I are anglicized in some instances and given in their Latin form in other instances, whereas in Part II the terms appear exclusively in Latin. In the latter case, the term corresponds with the original B N A; in the former case the term has been used in the form which appears to coincide with the usage common to the majority of standard American and English anatomical texts, but it is to be recognized that as yet there is no authoritative English list based on the B N A and that for the present decisions upon this point are necessarily largely dependent upon the individual preferences of author and student. (See also discussion in the Preface).

In general the subject matter is arranged with a view to practical utility. To this end the terms in Part I are grouped primarily in the sequence in which the corresponding structures may be exposed and observed in actual dissection. The text in small type gives concise statements of the more important incisions and dissections necessarily involved in an adequate demonstration of these structures as they are encountered in any given region. The page arrangement of the terms in general is such as to leave a certain amount of space available for marginal notes or references.

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2. Regions of the back

MEDIAN REGION OF THE BACK-83:24
 INTERSCAPULAR REGION-83:25
 SCAPULAR REGION-83:26
 SUPRASCAPULAR REGION-83:27
 INFRASCAPULAR REGION-83:23
 LUMBAR REGION-83:29
 REGION OF THE HIP-83:30
 SACRAL REGION-83:31
 GLUTEAL REGION-83:32
 PERINEAL REGION-83:33

3. Fascia, cutaneous nerves and vessels

Skin incisions: a) in the midline from the vertebra prominens to the tip of the coccyx; b) from the tip of the coccyx to the posterior superior iliac spine, thence along the iliac crest to within about 25 cm. of the anterior superior iliac spine; c) from the vertebra prominens to the medial margin of the acromion; d) from the spinous process of the first lumbar vertebra to the lateral margin of the acromion.

SUPERFICIAL FASCIA-23:36
 MEDIAL CUTANEOUS RAMI OF POSTERIOR RAMI OF THORACIC NERVES-69:77
 LATERAL CUTANEOUS RAMI OF POSTERIOR RAMI OF THORACIC NERVES-69:76
 POSTERIOR RAMI OF LATERAL CUTANEOUS RAMI OF INTERCOSTAL NERVES-70:4
 MEDIAL RAMI OF POSTERIOR RAMI OF LUMBAR, SACRAL AND COCCYGEAL NERVES-70:13, 19
 LATERAL RAMI OF POSTERIOR RAMI OF LUMBAR NERVES-70:14
 MEDIAL CUTANEOUS RAMI OF POSTERIOR RAMI OF INTERCOSTAL ARTERIES-49:63
 DORSAL RAMI OF LUMBAR ARTERIES-50:10
 POSTERIOR RAMI OF LATERAL CUTANEOUS RAMI OF ANTERIOR RAMI OF INTERCOSTAL ARTERIES-49:68

4. Muscles, nerves and vesselsa. Muscles: first layer

Exposed by removing both superficial and deep layers of fascia.
 TRAPEZIUS MUSCLE-23:15
 LATISSIMUS DORSI MUSCLE-23:17 Not including its insertion.
 TRIGONUM LUMBALE-25:48

b. Structures in relation to the superior margin of the scapula

Demonstrated by detaching the thoracic part of the trapezius muscle at its origin, separating it from the cervical part of the muscle by a transverse incision at the level of the vertebra prominens, and reflecting the thoracic portion toward its insertion, exposing at the same time the external ramus of the accessory nerve-68:59, and the muscular rami from the third and fourth cervical nerves supplying it.
 INFERIOR BELLY OF THE OMOHYOID MUSCLE-24:59
 SUPRASCAPULAR NERVE-69:31
 TRANSVERSE SCAPULAR ARTERY-48:60
 SUPERIOR TRANSVERSE SCAPULAR LIGAMENT-19:43

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c. Muscles: second layer

RHOMBOIDEUS MAJOR MUSCLE-23:18

RHOMBOIDEUS MINOR MUSCLE-23:19

LEVATOR SCAPULAE MUSCLE-23:20 Insertion only.

The descending ramus of the transverse cervical artery-48:69 may be observed in the interval between the rhomboideus minor and the levator scapulae muscles.

d. Nerves and vessels

The following nerves and artery may be exposed by detaching the levator scapulae muscle at its insertion and the rhomboid muscles at their origins, and reflecting the latter muscles toward their insertions.

DORSAL SCAPULAR NERVE-69:27

DESCENDING RAMUS OF THE TRANSVERSE CERVICAL ARTERY-48:69

The following structures may be demonstrated by detaching the latissimus dorsi muscle at its origin and reflecting the muscle toward its insertion.

THORACODORSAL NERVE-69:33 Termination only.

THORACODORSAL ARTERY-49:10 Termination only.

II. Anterior Thoracic region and axillary fossa.1. Surface anatomy

Structures which may be identified by inspection and palpation.

CLAVICLE-13:59

STERNAL, EXTREMITY-13:60

ACROMIAL EXTREMITY-13:63

STERNUM-7:46

MANUBRIUM-7:47

JUGULAR NOTCH-7:54

BODY OF STERNUM-7:50

ANGLE OF STERNUM-7:48

XIPHOID PROCESS-7:52

RIBS I-XII-7:28

COSTAL CARTILAGES-7:32

CORACOID PROCESS OF THE SCAPULA-13:58

MAMMA-4:50, 80:5

PAPILLA MAMMAE-80:6

CORPUS MAMMAE-80:7

AREOLA MAMMAE-80:14

ACCESSORY MAMMAE-80:18

AXILLA-5:10

ANTERIOR AXILLARY FOLD-5:11

POSTERIOR AXILLARY FOLD-5:12

HUMERUS-13:67

2. Pectoral regions-83:2

ANTERIOR PECTORAL REGION-83:3

STERNAL REGION-83:4

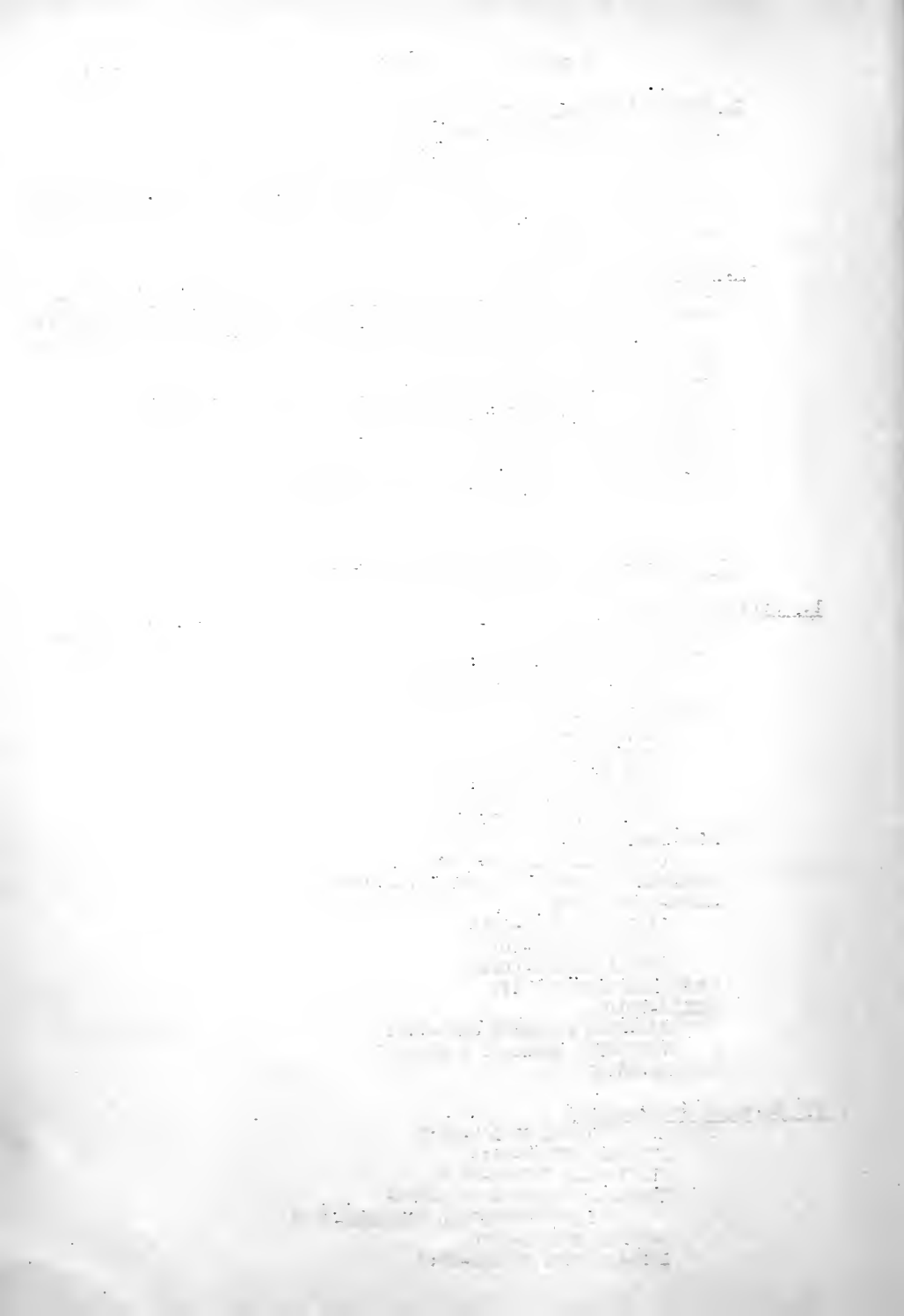
CLAVICULAR REGION-83:5

INFRACTAVICULAR REGION-83:6

DELTOIDEOPECTORAL TRIANGLE-83:7

MAMMARY REGION-83:8

INFRAMAMMARY REGION-83:9



LATERAL PECTORAL REGION-83:10
 AXILARY REGION-83:12
 AXILARY FOSSA-83:12
 LATERAL COSTAL REGION-83:13

3. Anterior thoracic wall: superficial structures

a. Superficial fascia, cutaneous nerves and blood vessels

Skin incisions: a) longitudinally from the xiphoid process transversely around to the back; b) from the jugular notch laterally, along the clavicle, to the tip of the acromion; c) from the xiphoid process obliquely upward and laterally along the anterior axillary fold to the arm, encircling the areola mammae and leaving it in situ.

SUPERFICIAL FASCIA-23:36

PLATYCYMA MUSCLE-24:54

SUPRACLAVICULAR NERVES-69:17

 ANTERIOR SUPRACLAVICULAR NERVES-69:18

 MIDDLE SUPRACLAVICULAR NERVES-69:19

 POSTERIOR SUPRACLAVICULAR NERVES-69:20

ANTERIOR CUTANEOUS RAMI OF INTERCOSTAL NERVES-70:8

 MEDIAL MAMMARY RAMI-70:9

ANTERIOR RAMI OF LATERAL CUTANEOUS RAMI OF INTERCOSTAL NERVES IV to VI-70:5

POSTERIOR RAMI OF LATERAL CUTANEOUS RAMI OF INTERCOSTAL NERVES IV to VI-70:4

LATERAL MAMMARY RAMI OF LATERAL CUTANEOUS RAMI OF INTERCOSTAL NERVES-70:6

PERFORATING RAMI OF INTERNAL MAMMARY ARTERY-48:40-43

LATERAL CUTANEOUS RAMI OF ANTERIOR RAMI OF INTERCOSTAL ARTERIES IV to VI-49:87

TRIBUTARIES OF INTERNAL MAMMARY VEIN

b. Mamma-80:5-18

4. Anterior thoracic wall: deep fascia and pectoralis major muscles

PECTORAL FASCIA-25:22

(STERNALIS MUSCLE)-24:73

PECTORALIS MAJOR MUSCLE-24:74-77 Not including its insertion.

Exposed by removing the pectoral fascia but leaving intact the axillary fascia.

5. Axillary fossa, and structures subjacent to the pectoralis major muscle

a. Structures in relation to the base of the axillary fossa

AXILARY FASCIA-26:40

INTERCOSTOBRACHIAL NERVES-70:7

THORACODORSAL NERVE-69:33

THORACODORSAL ARTERY-49:10

LATERAL THORACIC ARTERY-49:7

LONG THORACIC NERVE-69:28

AXILARY LYMPH GLANDS-56:45

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25. The twenty-fifth part of the report...

26. The twenty-sixth part of the report...

27. The twenty-seventh part of the report...

28. The twenty-eighth part of the report...

29. The twenty-ninth part of the report...

30. The thirtieth part of the report...

31. The thirty-first part of the report...

32. The thirty-second part of the report...

b. Structures exposed by the reflection of the clavicular part ofthe pectoralis major muscle

Demonstrated by detaching the clavicular part of the pectoralis major muscle at its origin and reflecting it toward its insertion.

CORACOCALVICULAR FASCIA-25:23

THORACOCROMIAL ARTERY-49:2

ACROMIAL RAMUS-49:3

ACROMIAL NETWORK-49:4

DELTOID RAMUS-49:5

PECTORAL RAMUS-49:6

THORACOCROMIAL VEIN-54:27

CEPHALIC VEIN-54:37

ANTERIOR THORACIC NERVES-69:29

c. Structures exposed by the reflection of the sternocostal part of the pectoralis major muscle

Demonstrated by dividing the sternocostal part of the pectoralis major muscle midway between its origin and insertion and reflecting the two parts medially and laterally respectively.

CORACOCALVICULAR FASCIA-25:23

PECTORALIS MINOR MUSCLE-24:78

d. Contents of the superior part of the axillary fossa

Exposed by removing the portion of the coracoclavicular fascia extending between the clavicle and the superior margin of the pectoralis minor muscle.

AXILLARY ARTERY-48:70 Its first part.

AXILLARY VEINS-54:29

BRACHIAL PLEXUS-69:24

MEDIAL CORD-69:39

LATERAL CORD-69:38

POSTERIOR CORD-69:40

LYMPH GLANDS

e. Contents of the inferior part of the axillary fossa

Exposed by removing the fascia and fat inferior to the pectoralis minor muscle.

AXILLARY ARTERY-48:70 Its third part.

MEDIAN NERVE-69:48

MUSCULOCUTANEOUS NERVE-69:41

MEDIAL ANTI-BRACHIAL CUTANEOUS NERVE-69:45

AXILLARY VEIN-54:29

MEDIAL BRACHIAL CUTANEOUS NERVE-69:44

ULNAR NERVE-69:55

f. Structures in relation to the medial wall of the axillary fossa

INTERCOSTOBRACHIAL NERVES-70:7

LONG THORACIC NERVE-69:28

LATERAL THORACIC ARTERY-49:7

PECTORAL LYMPH GLANDS-56:47

g. Structures in relation to the posterior wall of the axillary fossa

THORACODORSAL NERVE-59:33

SUBSCAPULAR ARTERY-49:9

THORACODORSAL ARTERY-49:10

CIRCUMFLEX SCAPULAR ARTERY-49:11

Origin only.

1. The first section of the document discusses the importance of maintaining accurate records for all transactions. It emphasizes that every entry must be supported by a valid receipt or invoice to ensure the integrity of the financial data.

2. The second section outlines the procedures for handling discrepancies between the recorded amounts and the actual cash flow. It states that any variance must be investigated immediately and reported to the management team.

3. The third section details the requirements for the monthly financial statements. It specifies that these reports must be prepared by the 10th of the following month and must include a detailed breakdown of all income and expenses.

4. The fourth section addresses the audit process. It notes that all financial records are subject to annual audits by an independent firm. The company must ensure that all records are organized and accessible for the auditors.

5. The fifth section discusses the role of the finance department in budgeting and forecasting. It highlights the need for the department to provide accurate projections to support the company's strategic planning.

6. The final section provides a summary of the key points and reiterates the commitment to transparency and accuracy in all financial reporting. It concludes with a statement of confidence in the company's financial health.

SUBSCAPULAR NERVES-69:32
 SUBSCAPULAR LYMPH GLANDS-56:46

h. Axillary vessels

The exposure of the entire extent of these vessels may be completed by the reflection of the pectoralis minor muscle.

AXILLARY ARTERY-48:70
 HIGHEST THORACIC ARTERY-49:1
 THORACOACROMIAL ARTERY-49:2
 LATERAL THORACIC ARTERY-49:7
 EXTERNAL MAMMARY RAMI-49:8
 SUBSCAPULAR ARTERY-49:9
 THORACODORSAL ARTERY-49:10
 CIRCUMFLEX SCAPULAR ARTERY-49:11
 ANTERIOR CIRCUMFLEX HUMERAL ARTERY-49:12
 POSTERIOR CIRCUMFLEX HUMERAL ARTERY-49:13
 AXILLARY VEIN-54:29
 LATERAL THORACIC VEIN-54:30
 THORACOEPIGASTRIC VEINS-54:32
 COSTOAXILLARY VEINS-54:31
 CEPHALIC VEIN-54:37

i. Subclavius muscle-24:79

i. Brachial plexus

Its exposure may be completed - i.e. so far as it is related to the axillary fossa - by detaching the subclavius muscle at its insertion, removing the middle third of the clavicle, and dividing the axillary artery and vein at the level of the clavicle and reflecting them distally.

LATERAL CORD-69:38
 ANTERIOR THORACIC NERVE-69:29
 MUSCULOCUTANEOUS NERVE-69:41
 MEDIAN NERVE-69:48 Lateral head.
 MEDIAL CORD-69:39
 ANTERIOR THORACIC NERVE-69:29
 MEDIAN NERVE-69:48 Medial head.
 ULNAR NERVE-69:55
 MEDIAL ANTEBRACHIAL CUTANEOUS NERVE-69:45
 MEDIAL BRACHIAL CUTANEOUS NERVE-69:44
 POSTERIOR CORD-69:40
 SUBSCAPULAR NERVES-69:32
 THORACODORSAL NERVE-69:33
 AXILLARY NERVE-69:34
 RADIAL NERVE-69:65
 SUBCLAVIAN NERVE-69:30
 LONG THORACIC NERVE-69:28

k. Serratus anterior muscle-25:1

III. Superior Extremity: general characteristics.1. Subdivisions

- AXILLA-5:10 Cf. Superior Extremity, II:1.
- ANTERIOR AND POSTERIOR AXILLARY FOLDS-5:11, 12
- ACROMION-5:13
- ARM-5:14
 - ANTERIOR AND POSTERIOR SURFACES-5:15, 16
 - LATERAL AND MEDIAL SURFACES-5:17, 18
- LATERAL AND MEDIAL BICIPITAL SULCI-5:19, 20
- ELBOW-5:21
- FOREARM-5:22
 - DORSAL AND VOLAR SURFACES-5:23, 24
 - RADIAL AND ULNAR MARGINS-5:25, 26
- HAND-5:27
 - CARPUS OR WRIST-5:28
 - METACARPUS-5:29
 - DORSUM OF HAND-5:30
 - PALM OR VOLAR ASPECT OF HAND-5:31
 - THENAR-5:32
 - HYPOTHENAR-5:33
 - DIGITS OF HAND-5:34
 - THUMB OR POLLEX-5:35
 - INDEX-5:36
 - MIDDLE DIGIT-5:37
 - RING DIGIT-5:38
 - SMALLEST DIGIT-5:39
 - DORSAL AND VOLAR SURFACES-5:40, 41
 - RADIAL AND ULNAR MARGINS-5:42, 43

2. Regions of the superior extremity-83:37

- ACROMIAL REGION-83:38
- DELTOID REGION-83:39
- LATERAL AND MEDIAL REGIONS OF ARM-83:40, 41
- ANTERIOR AND POSTERIOR REGIONS OF ARM-83:42, 43
- ANTERIOR REGION OF ELBOW-83:44
 - CUBITAL FOSSA-83:45
- POSTERIOR REGION OF ELBOW-84:1
 - OLECRANON REGION-84:2
- LATERAL AND MEDIAL REGIONS OF ELBOW-84:3, 4
- VOLAR AND DORSAL REGIONS OF FOREARM-84:5, 6
- RADIAL AND ULNAR MARGINS OF FOREARM-84:7, 8
- DORSAL AND VOLAR REGIONS OF HAND-84:9, 10
- DIGITAL REGIONS OF HAND-84:11
- DORSAL, UNGUICULAR AND VOLAR REGIONS OF DIGITS-84:12-14

IV. Region of the Shoulder.1. Fascia, cutaneous nerves and cephalic vein.

SUPERFICIAL FASCIA-23:36

Exposed by reflecting the skin of the shoulder distally as far as the insertion of the deltoid muscle.

- POSTERIOR SUPRACLAVICULAR NERVES-69:20
- LATERAL BRACHIAL CUTANEOUS NERVE-69:36
- CEPHALIC VEIN-54:37
- DEEP FASCIA

INTERNAL SECURITY - R

MEMORANDUM FOR THE DIRECTOR

SUBJECT: [Illegible]

[Illegible text follows, including names and dates]

RECOMMENDATION

- 1. [Illegible]
- 2. [Illegible]
- 3. [Illegible]
- 4. [Illegible]
- 5. [Illegible]
- 6. [Illegible]
- 7. [Illegible]
- 8. [Illegible]
- 9. [Illegible]
- 10. [Illegible]

ADMINISTRATIVE

[Illegible text]

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SUBSCAPULAR FASCIA-25:41
 SUPRASPINOUS FASCIA-25:42
 INFRASPINOUS FASCIA-25:43

2. Muscles, nerves, vessels and ligaments of the shoulder

DELTOID MUSCLE-25:63
 SUBCUTANEOUS ACROMIAL BURSA-28:22
 The subsequent structures are exposed by detaching the deltoid muscle at its origin and reflecting the muscle toward its insertion.
 SUBDELTOID BURSA-28:24
 SUBACROMIAL BURSA-28:23
 ANTERIOR HUMERAL CIRCUMFLEX ARTERY-49:12
 POSTERIOR HUMERAL CIRCUMFLEX ARTERY-49:13
 AXILLARY NERVE-69:34
 MUSCULAR RAMI-69:35
 LATERAL CUTANEOUS NERVE OF THE ARM-69:36
 TERES MAJOR MUSCLE-25:67
 BURSA OF THE TERES MAJOR MUSCLE-28:28
 PECTORALIS MAJOR MUSCLE-24:74 Insertion only.
 LATISSIMUS DORSI MUSCLE-23:17 Insertion only.
 BURSA OF THE LATISSIMUS DORSI MUSCLE-28:29
 CORACACROMIAL LIGAMENT-19:42
 ACROMIOCLAVICULAR ARTICULATION-19:45
 ARTICULAR CAPSULE-19:46
 ACROMIOCLAVICULAR LIGAMENT-19:47
 ARTICULAR DISC-19:48
 CORACOCALVICULAR LIGAMENT-19:49
 TRAPEZOID LIGAMENT-19:50
 CONOID LIGAMENT-19:51
 The following muscles are exposed by sawing through the acromion at its junction with the spine of the scapula, dividing the fascia covering the teres minor muscle and reflecting it medially, but guarding at the same time the circumflex artery of the scapula.
 SUPRASPINOUS MUSCLE-25:64
 TERES MINOR MUSCLE-25:66
 INFRASPINATUS MUSCLE-25:65
 SUBSCAPULARIS MUSCLE-25:68
 BURSA OF THE SUBSCAPULARIS MUSCLE-28:27
 In demonstrating the following structures the infraspinatus and supraspinatus muscles are divided near their insertions, and both muscles reflected toward their origins.
 BURSA OF THE INFRASPINATUS MUSCLE-28:26
 TRANSVERSE SCAPULAR ARTERY-48:60
 ACROMIAL RADIUS-48:61
 TRANSVERSE SCAPULAR VEIN-54:25
 SUPRASCAPULAR NERVE-69:31
 CIRCUMFLEX SCAPULAR ARTERY-49:11
 SUPERIOR TRANSVERSE SCAPULAR LIGAMENT-19:43
 INFERIOR TRANSVERSE SCAPULAR LIGAMENT-19:44

MEMORANDUM FOR THE RECORD

Subject: [Illegible]

[Illegible body text]

RECOMMENDATION

[Illegible body text]

V. Arm and Superficial Structures of the Forearm
and Dorsum of the Hand.

1. Surface anatomy of arm and forearm:

LATERAL BICIPITAL SULCUS-5:19
 MEDIAL BICIPITAL SULCUS-5:20
 MEDIAL MARGIN OF THE HUMERUS-14:4
 MEDIAL EPICONDYLE-14:11
 GROOVE FOR THE ULNAR NERVE-14:8
 LATERAL MARGIN OF THE HUMERUS-14:5
 LATERAL EPICONDYLE-14:12
 OLECRANON-14:19
 STYLOID PROCESS OF THE RADIUS-14:30
 DORSAL MARGIN OF THE ULNA-14:44
 STYLOID PROCESS OF THE ULNA-14:49

2. Arm (anterior aspect) and forearm: superficial structures

a. Cutaneous nerves

Skin incisions: a) along the middle line of the anterior surface of the arm and the volar surface of the forearm to the level of the radiocarpal articulation; b) transversely around the forearm just proximal to the radiocarpal articulation.

INTERCOSTOBRACHIAL NERVES-70:7
 MEDIAL ANTEBRACHIAL CUTANEOUS NERVE-69:45
 ULNAR RADIUS-69:47
 VOLAR RADIUS-69:46
 MEDIAL BRACHIAL CUTANEOUS NERVE-69:44
 POSTERIOR BRACHIAL CUTANEOUS NERVE-69:66
 DORSAL ANTEBRACHIAL CUTANEOUS NERVE-69:63
 LATERAL ANTEBRACHIAL CUTANEOUS NERVE-69:43

b. Veins and lymphatics

BASILIC VEIN-54:36
 CEPHALIC VEIN-54:37
 MEDIAN VEIN OF THE ELBOW-54:40
 In cases where the preceding vein is absent, the following veins may take its place:
 MEDIAN VEIN OF THE FOREARM-54:41
 MEDIAN BASILIC VEIN-54:42
 MEDIAN CEPHALIC VEIN-54:43
 SUPERFICIAL LYMPH GLANDS OF THE ELBOW-56:49

3. Arm (anterior aspect): deep structures

a. Deep fascia-

BRACHIAL FASCIA-26:44
 LACERTUS FIBROSUS-25:73
 The following fascial septa are demonstrated by dividing the brachial fascia by a longitudinal incision along the median line of the front of the arm and reflecting the medial and lateral flaps of deep fascia, leaving intact, however, the lacertus fibrosus.
 MEDIAL INTERMUSCULAR SEPTUM-26:45
 LATERAL INTERMUSCULAR SEPTUM-26:46

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b. Arteries

BRACHIAL ARTERY-49:14
 DEEP BRACHIAL ARTERY-49:15
 SUPERIOR ULNAR COLLATERAL ARTERY-49:20
 INFERIOR ULNAR COLLATERAL ARTERY-49:21

c. Veins

BRACHIAL VEINS-54:34
 BASILIC VEIN-54:39
 CEPHALIC VEIN-54:37

d. Nerves

MEDIAL BRACHIAL CUTANEOUS NERVE-69:44
 MEDIAL ANTIBRACHIAL CUTANEOUS NERVE-69:45
 MEDIAN NERVE-69:48
 ULNAR NERVE-69:55
 MUSCULOCUTANEOUS NERVE-69:41
 MUSCULAR RAMI-69:42
 LATERAL ANTIBRACHIAL CUTANEOUS NERVE-69:43

e. Muscles

BICEPS BRACHII MUSCLE-25:69
 LONG HEAD-25:70 Not including its origin.
 SHORT HEAD-25:72
 CORACOBRACHIALIS MUSCLE-25:74

4. Cubital fossa-83:45

The following structures are dealt with here only in so far as they are related to the cubital fossa.

BRACHIAL ARTERY-49:14
 RADIAL ARTERY-49:22
 ULNAR ARTERY-49:36
 TENDON OF BICEPS BRACHII MUSCLE
 MEDIAN NERVE-69:48
 BRACHIALIS MUSCLE-25:75
 SUPINATOR MUSCLE-26:24

The following structures are exposed by dividing the lacertus fibrosus and widening the space between the pronator teres and brachioradialis muscles.

RADIAL NERVE-69:65
 DEEP RAMUS-69:69
 SUPERFICIAL RAMUS-60:71
 RADIAL RECURRENT ARTERY-49:23
 INFERIOR ULNAR COLLATERAL ARTERY-49:21
 ULNAR RECURRENT ARTERY-49:47 Volar.

5. Arm: posterior aspect

TRICEPS BRACHII MUSCLE-25:76
 LONG HEAD-25:77
 LATERAL HEAD-25:78
 MEDIAL HEAD-25:79
 RADIAL NERVE-69:65

Exposed by dividing the lateral head of the triceps muscle along the course of the radial nerve.

POSTERIOR CUTANEOUS NERVE OF THE ARM-69:66
 MUSCULAR RAMI-69:67
 POSTERIOR CUTANEOUS NERVE OF THE FOREARM-69:68

DATE: 10/15/54

TO: SAC, NEW YORK

FROM: SAC, NEW YORK

SUBJECT: [Illegible]

RE: [Illegible]

[Illegible]

RE: [Illegible]

[Illegible]

RE: [Illegible]

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DEEP BRACHIAL ARTERY-49:15
 DELTOID RAMUS-49:17
 MIDDLE COLLATERAL ARTERY-49:18
 RADIAL COLLATERAL ARTERY-49:19
 NUTRIENT ARTERIES OF THE HUMERUS-49:16
 ULNAR NERVE-69:55
 SUPERIOR ULNAR COLLATERAL ARTERY-49:20
 INFERIOR ULNAR COLLATERAL ARTERY-49:21
 SUBTENDINOUS BURSA OF THE OLECRANON-28:32

6. Dorsum of the hand: superficial structures

Skin incisions: a) along the radial and ulnar margins of the hand; b) along the middle line of the dorsal aspect of each digit.
 SUPERFICIAL RAMUS OF THE RADIAL NERVE-69:71
 ULNAR ANASTOMOTIC RAMUS-69:72
 DORSAL DIGITAL NERVES-69:73
 DORSAL RAMUS OF THE HAND FROM THE ULNAR NERVE-69:57
 DORSAL DIGITAL NERVES-69:58
 VENOUS NETWORK OF THE BACK OF THE HAND-54:44
 DORSAL METACARPAL VEINS-54:49
 DIGITAL VENOUS ARCH-54:52
 DORSAL FASCIA OF THE HAND-26:50
 DORSAL CARPAL LIGAMENT-26:51

7. Forearm: volar aspect and ulnar margin

a. Deep fascia and cutaneous nerves piercing it

For the superficial fascia and certain cutaneous nerves of the forearm, see Superior Extremity, V:2.
 FASCIA OF THE FOREARM-26:49
 PALMAR CUTANEOUS RAMUS OF THE ULNAR NERVE-69:56
 PALMAR RAMUS OF THE MEDIAN NERVE-69:51
 SUPERFICIAL RAMUS OF THE RADIAL NERVE-69:71
 VOLAR CARPAL LIGAMENT-26:55

b. Radial artery and nerve

Exposed by turning aside the volar ramus of the medial cutaneous nerve of the forearm, the lateral cutaneous nerve of the forearm, the superficial veins, and removing the deep fascia of the forearm except where it gives origin to underlying muscles.
 RADIAL ARTERY-49:22
 RADIAL RECURRENT ARTERY-49:23
 SUPERFICIAL VOLAR RAMUS-49:26
 MUSCULAR RAMI-49:24
 VOLARCCARPAL RAMUS-49:25
 RADIAL NERVE-69:65
 DEEP RAMUS-69:69 Origin only
 SUPERFICIAL RAMUS-69:71

c. Superficial muscles

BRACHEODIALIS MUSCLE-26:17
 PALMARIS LONGUS MUSCLE-26:7
 PRONATOR TERES MUSCLE-26:3
 HUMERAL HEAD-26:4
 ULNAR HEAD-26:5
 FLEXOR CARPI RADIALIS MUSCLE-26:6
 FLEXOR CARPI ULNARIS MUSCLE-26:8

MEMORANDUM FOR THE DIRECTOR

Subject: [Illegible]

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HUMERAL HEAD-26:9
 ULNAR HEAD-26:10
 FLEXOR DIGITORUM SUBLIMIS-26:11
 HUMERAL HEAD-26:12
 ULNAR HEAD-26:13

d. Ulnar vessels and median nerve

ULNAR ARTERY-49:36
 RECURRENT ULNAR ARTERIES-49:37
 COMMON INTEROSSEOUS ARTERY-49:39
 VOLAR INTEROSSEOUS ARTERY-49:42 Origin only.
 DORSAL INTEROSSEOUS ARTERY-49:40 Origin only.
 VOLAR CARPAL RAMUS-49:46
 DORSAL CARPAL RAMUS-49:45
 MUSCULAR RAMI-49:44
 ULNAR VEINS-54:36
 ULNAR NERVE-69:55
 PALMAR CUTANEOUS RAMI-69:56
 DORSAL RAMUS OF THE HAND-69:57
 VOLAR RAMUS OF THE HAND-69:59 Origin only.
 MUSCULAR RAMI-60:64
 MEDIAN NERVE-69:48
 Exposed by reflecting the humeral head of the pronator teres muscle and the radial head of the flexor digitorum sublimis muscle.
 MUSCULAR RAMI-69:49
 VOLAR INTEROSSEOUS NERVE OF THE FOREARM-69:50 Origin only.
 PALMAR RAMUS OF THE MEDIAN NERVE-69:51 Origin only.

e. Deep structures on the volar aspect of the forearm

FLEXOR DIGITORUM PROFUNDUS MUSCLE-26:14
 FLEXOR POLLICIS LONGUS MUSCLE-26:15
 PRONATOR QUADRATUS MUSCLE-26:16
 VOLAR INTEROSSEOUS ARTERY-49:42
 MEDIAN ARTERY-49:43
 MUSCULAR RAMI-49:44
 VOLAR INTEROSSEOUS NERVE-69:50

VI. Wrist and Hand: Volar Aspect

1. Surface anatomy

THENAR EMINENCE-5:32
 HYPOTHENAR EMINENCE-5:33
 TUBERCLE OF THE NAVICULAR BONE-14:54
 TUBERCLE OF THE GREATER MULTANGULAR BONE-14:59
 PISIFORM BONE-14:57
 METACARPAL BONES-14:68
 PHALANGES-14:74

2. Fascia and cutaneous nerves

Skin incisions: a) longitudinally along the middle line of the palm; b) transversely at the level of the proximal ends of the interdigital clefts from the radial to the ulnar margin of the hand; c) longitudinally along the middle line of each digit.
 SUPERFICIAL FASCIA-23:36
 PALMARIS BREVIS MUSCLE-26:29
 PALMAR BRANCH OF THE MEDIAN NERVE-69:51

PALMAR CUTANEOUS BRANCH OF THE ULNAR NERVE-69:56
 SUPERFICIAL BRANCH OF THE RADIAL NERVE-69:71
 PALMAR APONEUROSIS-26:52
 TRANSVERSE FASCICULI-26:53
 VOLAR CARPAL LIGAMENT-26:55

3. Muscles, nerves, vessels and ligaments

a. Nerves and vessels superficial to the muscles and flexor tendons of the palm.

Exposed by dividing the proximal part of the palmar aponeurosis transversely, reflecting it distally and then removing the entire aponeurosis together with the palmaris brevis muscle and the volar carpal ligament.

SUPERFICIAL VOLAR ARCH-49:48
 SUPERFICIAL VOLAR RAMUS OF THE RADIAL ARTERY-49:26
 COMMON VOLAR DIGITAL ARTERIES-49:49
 PROPER VOLAR DIGITAL ARTERIES-49:50
 MEDIAN NERVE-69:48
 MUSCULAR RAMI-69:49
 COMMON VOLAR DIGITAL NERVES-69:53
 PROPER VOLAR DIGITAL NERVES-69:54
 VOLAR RAMUS OF THE ULNAR NERVE IN THE HAND-69:59
 DEEP RAMUS-69:63 Origin only.
 SUPERFICIAL RAMUS-69:60
 COMMON VOLAR DIGITAL NERVES-69:61
 PROPER VOLAR DIGITAL NERVES-69:62

b. Ligaments and mucous sheaths of the flexor tendons

TRANSVERSE CARPAL LIGAMENT-26:54
 VAGINA TENDINUM MM. FLEXORUM COMMUNIUM-28:48
 VAGINA TENDINIS M. FLEXORIS POLLICIS LONGI-28:49
 VAGINAL LIGAMENTS OF THE DIGITS-26:59
 ANNULAR LIGAMENTS OF THE DIGITS-26:60
 CRUCIATE LIGAMENTS OF THE DIGITS-26:61
 VINCULUM TENDINUM-26:57
 CARPAL CANAL-20:24
 CHIASMA TENDINUM-26:56

c. Muscles

LUMBRICALES MUSCLES-26:37

Exposed by dividing the superficial volar arch just distal to the deep ramus of the ulnar artery and also at its junction with the superficial volar ramus of the radial artery and reflecting the arch distally, dividing the median nerve at the level of the wrist and reflecting it distally, and dividing the flexor digitorum sublimis muscle at the middle of the forearm and reflecting the distal part toward its insertion.

The demonstration of the following structures may be completed by dividing the flexor digitorum profundus in the forearm and reflecting it and the lumbricales muscles toward their insertions, noting at the same time the muscular rami from the deep branch of the ulnar nerve to the two (ulnar) lumbrical muscles.

ABDUCTOR POLLICIS BREVIS MUSCLE-26:30
 OPPONENS POLLICIS MUSCLE-26:32
 ADDUCTOR POLLIS MUSCLE

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ADDUCTOR POLLICIS MUSCLE-26:33
 ABDUCTOR DIGITI QUINTI MUSCLE-26:34
 FLEXOR DIGITI QUINTI BREVIS MUSCLE-26:35
 OPPONENS DIGITI QUINTI MUSCLE-26:36

d. Nerves and vessels, internal to the flexor tendons and muscles of the palm.

DEEP RAMUS OF THE ULNAR NERVE-69:63
 MUSCULAR RAMI-69:64
 DEEP VOLAR ARCH-49:33
 VOLAR METACARPAL ARTERIES-49:34
 PERFORATING RAMI-49:35
 PRINCEPS POLLICIS ARTERY-49:31
 Demonstrated by detaching the adductor pollicis muscle at its origin and reflecting it toward its insertion.
 VOLAR RADIAL ARTERY OF THE INDEX DIGIT-49:32

VII. Forearm: Dorsal Aspect and Radial Margin

1. Fascia, muscles, nerves and vessels

a. Deep fascia of forearm

For the superficial fascia, cutaneous nerves and superficial vessels, see Superior Extremity, V:2.
 FASCIA OF FOREARM-26:49
 DORSAL CARPAL LIGAMENT-26:51

b. Superficial muscles

Exposed by removing the deep fascia from the dorsum of the forearm, except where it gives origin to subjacent muscles as in the region of the elbow (retaining intact, however, the dorsal carpal ligament).
 BRACHIORADIALIS MUSCLE-26:17
 EXTENSOR CARPI RADIALIS LONGUS MUSCLE-26:18
 EXTENSOR CARPI RADIALIS BREVIS MUSCLE-26:19
 BURSA OF THE EXTENSOR CARPI RADIALIS BREVIS MUSCLE-28:43
 EXTENSOR DIGITORUM COMMUNIS MUSCLE-26:20
 EXTENSOR DIGITI QUINTI PROPRIUS MUSCLE-26:22
 ANCONÆUS MUSCLE-26:1
 EXTENSOR CARPI ULNARIS MUSCLE-26:23

c. Nerves and vessels

Exposed by dividing the extensor digitorum communis and extensor digiti quinti muscles at the middle of the forearm, and reflecting the proximal and distal segments of the divided muscles toward their origin and insertion, respectively.
 DORSAL INTEROSSEOUS ARTERY-49:40
 RECURRENT INTEROSSEOUS ARTERY-49:41
 ARTERIAL NETWORK OF THE ELBOW-49:38
 VOLAR INTEROSSEOUS ARTERY-49:42
 DEEP RAMUS OF THE RADIAL NERVE-69:69
 DORSAL INTEROSSEOUS NERVE-69:70

d. Deep muscles

ABDUCTOR POLLICIS LONGUS MUSCLE-26:25

GENERAL INFORMATION

1. Name of the person or organization
2. Address
3. City, State, and Zip

4. Telephone number
5. Fax number
6. E-mail address

7. Date of birth
8. Date of issue

9. Issued by

10. Validity period

11. Remarks
12. Signature

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EXTENSOR POLLICIS BREVIS MUSCLE-26:26
 EXTENSOR POLLICIS LONGUS MUSCLE-26:27
 EXTENSOR INDICIS PROPRIUS MUSCLE-26:28
 SUPINATOR MUSCLE-26:24

VIII. Wrist and Hand: Dorsal Aspect

1. Muscles, nerves and vessels

a. Vessels

For the cutaneous nerves and superficial vessels see Superior Extremity, V:6.

RADIAL ARTERY-49:22
 DORSAL CARPAL RAMUS-49:27
 DORSAL CARPAL RETE-49:28
 DORSAL METACARPAL ARTERIES-49:29
 DORSAL DIGITAL ARTERIES-49:30
 PERFORATING RAMI-49:35

b. Muscles, nerves and ligaments

DORSAL CARPAL LIGAMENT-26:51
 JUNCTURAE TENDINUM-26:21
 DORSAL INTEROSSEOUS NERVE-69:70
 TRANSVERSE LIGAMENTS OF THE HEADS OF THE METACARPAL BONES-20:41
 VOLAR INTEROSSEOUS MUSCLES-26:39
 DORSAL INTEROSSEOUS MUSCLES-26:38
 FLEXOR POLLICIS BREVIS MUSCLE-26:31 Deep head.
 Demonstrated by reflecting the radial head of the first
 dorsal interosseous muscle.
 FLEXOR CARPI RADIALIS MUSCLE-26:6

IX. Articulations of the Superior Extremity

1. Shoulder joint-19:58

ARTICULAR CAPSULE-19:59
 CORACOHUMERAL LIGAMENT-19:61
 GLENOID LIP-19:60
 LONG HEAD OF THE BICEPS MUSCLE-25:70
 SYNOVIAL MEMBRANE-18:32
 INTERTUBERCULAR MUCCOUS SHEATH-25:71
 BURSA SUBSCAPULARIS-28:28

2. Elbow joint-19:62

ARTICULAR CAPSULE-19:66
 ULNAR COLLATERAL LIGAMENT-19:67
 RADIAL COLLATERAL LIGAMENT-19:68
 SYNOVIAL MEMBRANE-18:32
 HUMEROULNAR ARTICULATION-19:63
 HUMERORADIAL ARTICULATION-19:64

3. Joint of the hand-20:8

a. Radiocarpal articulation-20:9

ARTICULAR CAPSULE-20:11
 DORSAL RADIOCARPAL LIGAMENT-20:12

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5800 S. UNIVERSITY AVENUE
CHICAGO, ILLINOIS 60637

TO: THE DIRECTOR, NATIONAL BUREAU OF STANDARDS
4300 RESISTANCE AVENUE
GAITHERSBURG, MARYLAND 20899

FROM: DR. J. H. GOLDSTEIN
PHYSICS DEPARTMENT
UNIVERSITY OF CHICAGO
5720 S. UNIVERSITY AVENUE
CHICAGO, ILLINOIS 60637

SUBJECT: NUCLEAR MAGNETIC RESONANCE
SPECTROSCOPY OF
POLYMER SOLUTIONS

RE: NATIONAL BUREAU OF STANDARDS
MONITORING SERVICE

WE HEREBY CERTIFY THAT THE
RESULTS OF THE MONITORING SERVICE
WAS CONDUCTED IN ACCORDANCE
WITH THE REQUIREMENTS OF THE
NATIONAL BUREAU OF STANDARDS
MONITORING SERVICE

DATE: 10/15/68
BY: DR. J. H. GOLDSTEIN
PHYSICS DEPARTMENT
UNIVERSITY OF CHICAGO
5720 S. UNIVERSITY AVENUE
CHICAGO, ILLINOIS 60637

10/15/68

10/15/68

VOLAR RADIOCARPAL LIGAMENT-20:13
ULNAR COLLATERAL CARPAL LIGAMENT-20:15
RADIAL COLLATERAL CARPAL LIGAMENT-20:16

b. Intercarpal articulation-20:10

ARTICULAR CAPSULE-20:11
RADIATE CARPAL LIGAMENT-20:14
DORSAL INTERCARPAL LIGAMENTS-20:17
VOLAR INTERCARPAL LIGAMENTS-20:18
INTEROSSEOUS INTERCARPAL LIGAMENTS-20:19

4. Pisiform articulation-20:20

ARTICULAR CAPSULE-20:21
PISOHAMATE LIGAMENT-20:22
PISOMETACARPAL LIGAMENT-20:23
CARPAL CANAL-20:24

5. Radioulnar articulations

PROXIMAL RADIOULNAR ARTICULATION-19:65
ANNULAR LIGAMENT OF THE RADIUS-19:69
RECESSUS SACCIFORMIS-20:1
DISTAL RADIOULNAR ARTICULATION-20:4
ARTICULAR DISC-20:6
ARTICULAR CAPSULE-20:5
RECESSUS SACCIFORMIS-20:7
INTEROSSEOUS MEMBRANE OF FOREARM-20:2
OBLIQUE CORD-20:3

6. Carpometacarpal articulations-20:25

ARTICULAR CAPSULES-20:32
DORSAL CARPOMETACARPAL LIGAMENTS-20:27
VOLAR CARPOMETACARPAL LIGAMENTS-20:28
CARPOMETACARPAL ARTICULATION OF THE THUMB-20:29
ARTICULAR CAPSULE-20:30

7. Intermetacarpal articulations-20:31

ARTICULAR CAPSULES-20:32
DORSAL BASAL LIGAMENTS-20:33
VOLAR BASAL LIGAMENTS-20:34
INTEROSSEOUS BASAL LIGAMENTS-20:35

8. Metacarpophalangeal articulations-20:37

ARTICULAR CAPSULES-20:38
COLLATERAL LIGAMENTS-20:39
VOLAR ACCESSORY LIGAMENTS-20:40
TRANSVERSE LIGAMENTS OF THE HEADS OF THE METACARPAL BONES-20:41

9. Articulations of the digits-20:42

ARTICULAR CAPSULES-20:43
COLLATERAL LIGAMENTS-20:44

MEMORANDUM FOR THE RECORD

RE: [Illegible text]

1. [Illegible text]

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2. [Illegible text]

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THORAX

AND DEEP STRUCTURES OF THE BACK

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I. General Characteristics

1. Subdivisions of thorax and back

THORAX-4:47
THORACIC CAVITY-4:48
BREAST-4:49
MAMMA-4:50
MAMMARY PAPILLA-4:51
BACK-4:52
VERTEBRAL COLUMN-4:53
SPINAL CANAL-4:54

2. Surface anatomy

For the surface anatomy of the thorax and back see Superior Extremity, I:1 and II:1.

3. General osteological characteristics of thorax

THORACIC CAVITY-7:58
SUPERIOR APERTURE OF THE THORAX-7:59
INFERIOR APERTURE OF THE THORAX-7:60
COSTAL ARCHES-7:61
INTERCOSTAL SPACES-7:62
INFRASTERNAL ANGLE-7:63

4. Regions of thorax and back

For regions of the thorax and back refer to Superior Extremity, I:2, and II:2.

II. Thoracic Wall: Anterior and Lateral Parts

1. Intercostal muscles, ligaments and nerves

For structures of the thoracic wall external to the costal arches and intercostal muscles see Superior Extremity, II:3, 4.

EXTERNAL INTERCOSTAL MUSCLES-25:5
EXTERNAL INTERCOSTAL LIGAMENTS-19:32
INTERNAL INTERCOSTAL MUSCLES-25:6

Exposed by dividing the external intercostal muscles and external intercostal ligaments along the inferior margins of the intercostal spaces and reflecting the muscles and ligaments upward.

INTERNAL INTERCOSTAL LIGAMENTS-19:33
ANTERIOR RAMI (INTERCOSTAL NERVES) OF THORACIC NERVES-70:1
MUSCULAR RAMI-70:2
LATERAL CUTANEOUS RAMI-70:3
POSTERIOR AND ANTERIOR RAMI-70:4, 5
LATERAL MAMMARY RAMI-70:6
INTERCOSTOBRACHIAL NERVES-70:7
ANTERIOR CUTANEOUS RAMI-70:8
MEDIAL MAMMARY RAMI-70:9

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

LABORATORY OF ORGANIC CHEMISTRY

CHICAGO, ILLINOIS

1955

RECEIVED

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RESEARCH ASSISTANT

1. The first part of the report deals with the synthesis of the compound...

SYNTHESIS OF THE COMPOUND

- 1. 100 g. of starting material
- 2. 50 g. of reagent
- 3. 20 g. of solvent
- 4. 10 g. of catalyst
- 5. 5 g. of inhibitor

ANALYSIS

The analysis of the compound shows the following results...

DISCUSSION

CONCLUSIONS

The results of the synthesis and analysis of the compound are discussed in detail. The compound was found to be a new member of the class of organic compounds. The synthesis was carried out in a series of steps, and the yield was found to be satisfactory. The analysis of the compound shows that it has the same molecular weight as the starting material, but a different composition. This suggests that the reaction is a rearrangement or a similar process. The discussion of the results is given in the following sections.

The first part of the report deals with the synthesis of the compound. The starting material was a mixture of two isomers, and the reaction was carried out in a series of steps. The first step was the reaction of the starting material with a reagent, which resulted in a mixture of products. The second step was the purification of the mixture, and the third step was the final synthesis of the compound. The yield of the compound was found to be 85%.

The analysis of the compound shows that it has the same molecular weight as the starting material, but a different composition. This suggests that the reaction is a rearrangement or a similar process. The discussion of the results is given in the following sections.

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2. Blood Vessels

- HIGHEST INTERCOSTAL ARTERY-48:63
 INTERCOSTAL ARTERIES-49:59
 ANTERIOR RAMI-49:65
 MUSCULAR RAMI-49:66
 LATERAL CUTANEOUS RAMI-49:67
 POSTERIOR RAMI-49:68
 ANTERIOR RAMI-50:1
 LATERAL MAMMARY RAMI-50:2
 ANTERIOR CUTANEOUS RAMI-50:3
 MEDIAL MAMMARY RAMI-50:4
 POSTERIOR RAMI-49:60 See also Superior Extremity, I:3.
 INTERCOSTAL VEINS-54:56
 INTERNAL MAMMARY ARTERY-48:34
 Exposed by removing the intercostal muscles and ligaments from the anterior ends of the intercostal spaces, guarding against injury to the pleura.
 STERNAL RAMI-48:39
 PERFORATING RAMI-48:40
 MAMMARY RAMI-48:41
 MUSCULAR RAMI-48:42
 CUTANEOUS RAMI-48:43
 INTERCOSTAL RAMI-44:45
 MUSCULOPHRENIC ARTERY-44:46
 Exposed by cutting away the medial end of the sixth costal cartilage.
 SUPERIOR EPIGASTRIC ARTERY-44:47 Its origin only.
 INTERNAL MAMMARY VEIN-52:65
 TRANSVERSE THORACIC MUSCLE-25:8

III. Thoracic Cavity and Viscera1. Pleura and pleural cavities

The pleura is exposed by removing the intercostal muscles, separating the pleura from the internal surfaces of the sternum and ribs, and with a saw and bone-forceps, removing the sternum and costal arches by the following incisions, but retaining the pleura intact: a) transversely through the sternum at the level of the lower margin of the first costosternal junction; b) transversely through the sternum at the level of the upper margin of the sixth costosternal junction; c) dividing the second, third, fourth, and fifth ribs at the junction of the middle and posterior thirds of each.

ENDOThoracic FASCIA-38:2

The pericardium may be identified by inserting the finger between the lines of sternal reflection of the right and left pleurae and passing it through the areolar tissue of the anterior mediastinal cavity.

Incisions through the pleura exposing the pleural cavity:

- a) longitudinally through the costal pleura midway between the sternum and vertebral column extending from the first to the sixth rib; b) transversely along the inferior margin of the first rib and along the superior margin of the sixth rib, extending

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- medially to within about 2 cm. of the line of sternal reflection of the pleura and laterally to the line of the cut ends of the second to fifth ribs.
- PULMONARY LIGAMENT-38:16
 - CUPULA OF PLEURA-38:5
 - PULMONARY PLEURA-38:6
 - PARIETAL PLEURA-38:7
 - COSTAL PLEURA-38:11
 - MEDIASTINAL PLEURA-38:8
 - MEDIASTINAL LAYERS-38:9
 - PERICARDIAL PLEURA-38:10
 - DIAPHRAGMATIC PLEURA-38:12
 - PLEURAL SINUSES-38:13
 - PHRENICOCOSTAL SINUS-38:14
 - COSTOMEDIASTINAL SINUS-38:15
 - ADIPOSE FOLDS-38:17
 - PLEURAL VILLI-38:18
 - MEDIASTINAL SEPTUM-38:19
 - ANTERIOR MEDIASTINAL CAVITY-38:20
 - POSTERIOR MEDIASTINAL CAVITY-38:21

2. Lungs.

The lung is removed by dividing its root close to the medial surface of the lung.

a. Surface anatomy of lungs

- BASE OF LUNG-37:57
- APEX OF LUNG-37:58
- COSTAL SURFACE-37:60
- MEDIASTINAL SURFACE-37:61
- DIAPHRAGMATIC SURFACE-37:62
- ANTERIOR MARGIN-37:63
- INFERIOR MARGIN-37:64
- HILUS OF LUNG-37:65
- ROOT OF LUNG-37:66
- SUBCLAVIAN GROOVE-37:59
- INTERLOBAR INCISURE-37:71
- SUPERIOR LOBE-37:68
- MIDDLE LOBE-37:69
- INFERIOR LOBE-37:70
- GARDIAC NOTCH-37:67

b. Internal structure of lungs

BRONCHI-37:41

Demonstrated by tearing and removing parts of the pulmonary tissue and following the bronchi and blood vessels and their subdivisions as far as possible into the substance of the lung.

- BRONCHIOLES-37:74
- RESPIRATORY BRONCHIOLES-37:75
- ALVEOLAR DUCTULES-37:76
- PULMONARY ALVEOLI-37:77
- BRONCHIAL LYMPH GLANDS-37:78
- BRONCHIAL LYMPHATIC NODULES-37:79
- PULMONARY LYMPH GLANDS-37:80

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3. Root of lung and related structuresa. Structures in relation to the right and left roots

Anterior:

ANTERIOR PULMONARY PLEXUS OF THE VAGUS NERVE-68:45
 PHRENIC NERVE-69:21
 PERICARDIACOPHRENIC ARTERY-48:38

Posterior:

VAGUS NERVE-68:22
 POSTERIOR PULMONARY PLEXUS OF THE VAGUS NERVE-68:46

Inferior:

PULMONARY LIGAMENT-38:16

In relation to the right root only:

AZYGOS VEIN-54:53
 SUPERIOR VENA CAVA-52:50

In relation to the left root only:

AORTIC ARCH-46:49
 DESCENDING AORTA-46:51

b. Structures within the root of each lung

BRONCHIAL ARTERIES-49:53
 PULMONARY ARTERY-46:40
 RIGHT AND LEFT RAMI-46:41, 42
 PULMONARY VEINS-52:37
 RIGHT AND LEFT PULMONARY VEINS-52:38, 39
 BRONCHUS, RIGHT AND LEFT-37:47
 BRONCHIAL RAMI-37:48
 EPARTERIAL BRONCHIAL RAMUS-37:49
 HYPARTERIAL BRONCHIAL RAMI-37:50
 BRONCHIAL LYMPH GLANDS-56:52

4. Phrenic nerve and nerves to the superficial part of the cardiac plexus

PHRENIC NERVE-69:21

PERICARDIAC RAMUS-69:22

PHRENICABDOMINAL RAMI-69:23

Nerves in relation to the superficial part of the cardiac plexus:

SUPERIOR CARDIAC NERVE-71:59 From the cervical sympathetic.

INFERIOR CARDIAC RAMUS-68:37 From the left vagus nerve.

CARDIAC GANGLION-72:11

5. Thymus-38:31

Usually in a condition of atrophy in the adult, but showing the following structures in the child:

RIGHT AND LEFT LOBES-38:32

CENTRAL TRACT-38:33

LOBULES OF THE THYMUS-38:34

6. Pericardium

STERNOPERICARDIAL LIGAMENTS-45:43

Incisions exposing the pericardial cavity: a) longitudinally through the pericardium from the aorta to the diaphragm; b) transversely from the middle of the right to the middle of the left root of the lung.

PERICARDIUM-45:41
 EPICARDIUM-45:45
 PERICARDIAL FLUID-45:42
 TRANSVERSE SINUS OF THE PERICARDIUM-45:44

7. Great veins of the thorax and their tributaries

SUPERIOR VENA CAVA-52:50
 RIGHT AND LEFT INNOMINATE VEINS-52:51
 INFERIOR THYROID VEINS-52:52 Termination only.
 THYROIDEA IMA VEIN-52:53
 The first five of the following tributaries are small
 and usually difficult to demonstrate:
 THORIC VEINS-52:56
 PERICARDIAC VEINS-52:57
 SUPERIOR PHRENIC VEINS-52:58
 ANTERIOR MEDIASTINAL VEINS-52:59
 ANTERIOR BRONCHIAL VEINS-52:60
 VERTEBRAL VEIN-52:63 Termination only.
 INTERNAL MAMMARY VEIN-52:65
 HIGHEST INTERCOSTAL VEIN-52:68
 AZYGOS VEIN-54:53
 INFERIOR VENA CAVA-55:3

8. Heart and aorta

a. Surface anatomy

APEX OF HEART-45:36
 STERNOCOSTAL SURFACE-45:34
 DIAPHRAGMATIC SURFACE-45:35
 RIGHT ATRIUM-46:1
 RIGHT AURICLE-46:7
 LEFT ATRIUM-46:26
 LEFT AURICLE-46:27
 RIGHT VENTRICLE-46:13
 LEFT VENTRICLE-46:29
 CORONARY SULCUS-45:40
 ANTERIOR LONGITUDINAL SULCUS-45:38
 POSTERIOR LONGITUDINAL SULCUS-45:39
 NOTCH AT APEX OF HEART-45:37

b. Nerve and vascular supply

RIGHT CORONARY ARTERY OF THE HEART-46:52
 POSTERIOR DESCENDING RAMUS-46:53
 LEFT CORONARY ARTERY OF THE HEART-46:54
 CIRCUMFLEX RAMUS-46:55
 ANTERIOR DESCENDING RAMUS-46:56
 CORONARY SINUS-52:41
 GREAT CARDIAC VEIN-52:42
 POSTERIOR VEIN OF LEFT VENTRICLE-52:43
 OBLIQUE VEIN OF LEFT ATRIUM-52:44
 MIDDLE CARDIAC VEIN-52:46
 SMALL CARDIAC VEIN-52:47
 ANTERIOR VEINS OF THE HEART-52:48
 SMALLEST VEINS OF THE HEART-52:49
 ANTERIOR CORONARY PLEXUS-72:10
 POSTERIOR CORONARY PLEXUS-72:12

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c. Cavities of the heart. Pulmonary vessels

RIGHT ATRIUM-46:1

Incisions exposing the cavity of the right atrium:
a) longitudinally from a point just anterior to the superior vena cava, downward and backward to the inferior vena cava; b) from the middle point of the preceding incision obliquely upward to the tip of the right auricle.

EPICARDIUM-45:45

MYOCARDIUM-45:46

ENDOCARDIUM-45:47

SULCUS TERMINALIS OF RIGHT ATRIUM-46:3

CRISTA TERMINALIS-46:4

SINUS VENARUM CARVARUM -46:5

PEOTINATE MUSCLES-46:2

INTERVENOUS TUBERCLE-46:8

SEPTUM OF THE ATRIA-45:54

MEMBRANOUS PART-45:55

FOSSA OVALIS-46:10

LIMBUS FOSSAE OVALIS-46:6

VALVE OF THE INFERIOR VENA CAVA-46:9

VALVE OF THE CORONARY SINUS-46:11

VENOUS ORIFICE-45:56

FORAMINA OF THE SMALLEST CARDIAC VEINS-46:12

RIGHT VENTRICLE-46:13

Incisions exposing the cavity of the right ventricle:
a) from the diaphragmatic surface of the heart upward $\frac{1}{2}$ cm. to the right of and parallel with the anterior longitudinal sulcus to the origin of the pulmonary artery; b) from the upper end of the preceding incision transversely to the right, parallel with and 1 cm. inferior to the coronary sulcus.

CONUS ARTERIOSUS-46:19

SUPRAVENTRICULAR CREST-46:18

VENOUS ORIFICE-45:56

TRICUSPID VALVE-46:14

ANTERIOR CUSP-46:15

POSTERIOR CUSP-46:16

MEDIAL CUSP-46:17

PAPILLARY MUSCLES-45:60

CHORDAE TENDINAE-45:61

TRABECULAE CARNEAE-45:58

PULMONARY ARTERY-46:40

RIGHT AND LEFT RAMUS-46:41, 42

LIGAMENTUM ARTERIOSUM-46:44

DUSTUS ARTERIOSUS^x-46:43

ARTERIAL ORIFICE OF RIGHT VENTRICLE³-45:57

SEMILUNAR VALVES OF PULMONARY ARTERY-46:20

ANTERIOR, RIGHT, AND LEFT SEMILUNAR VALVES-46:21,23

NODULES OF THE SEMILUNAR VALVES-46:24

LUNULAE OF THE SEMILUNAR VALVES-46:25

LEFT ATRIUM-46:26

The cavity and vascular communications of the left atrium are exposed by dividing the inferior vena cava, turning the heart upward and making an incision through the left atrial wall extending from the middle of its posterior margin forward to the tip of the left auricle.

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VALVE OF THE FORAMEN OVALIS-46:28

LEFT VENTRICLE-46:29

Incisions exposing the cavity of the left ventricle:

a) beginning near the coronary sulcus anteriorly and extending parallel and 1 cm. to the left of the anterior longitudinal sulcus to the apex of the heart; b) beginning posteriorly near the coronary sulcus and extending parallel and 1 cm. to the left of the posterior longitudinal sulcus and joining the end of the first incision at the apex of the heart.

TRABECULAE CARNEAE-45:58

PAPILLARY MUSCLES-45:60

CHORDAE TENDINEAE-45:61

VENOUS ORIFICE-45:56

ARTERIAL ORIFICE-45:57

BICUSPID VALVE-46:30

ANTERIOR AND POSTERIOR CUSPS-46:31, 32

VENTRICULAR SEPTUM-45:49

MUSCULAR SEPTUM OF VENTRICLE-45:50

MEMBRANOUS SEPTUM OF VENTRICLE-45:51

d. Aorta and its branches

ASCENDING AORTA-46:46

BULB OF AORTA-46:47

SINUS OF AORTA-46:48

RIGHT AND LEFT CORONARY ARTERIES-46:52, 54

AORTIC ARCH-46:49

ISTHMUS OF AORTA-46:50

INNOMINATE ARTERY-46:57

(THYREOIDEA IMA ARTERY)-46:58

COMMON CAROTID ARTERY (LEFT)-46:59

SUBCLAVIAN ARTERY (LEFT)-48:20

DESCENDING AORTA (THORACIC PORTION)-46:51 Origin only.

SEMILUNAR VALVES OF AORTA-46:33

RIGHT, LEFT AND POSTERIOR SEMILUNAR VALVES-46:34-36

NODULES AND LUNULAE OF THE SEMILUNAR VALVES-46:37, 38

e. Myocardium and fibrous rings of the heart

The subsequent structures are exposed to better advantage after the great blood vessels have been divided near their juncture with the heart and the heart removed.

ATRIOVENTRICULAR BUNDLE OF HIS

Demonstrated more favorably in the sheep's heart.

FIBROUS RINGS-45:63

Exposed by removing the atria of the heart.

FIBROUS TRIGONES-45:62

f. Cardiac plexus

For the superficial part of the cardiac plexus, see III:4.

The following nerves entering into the formation of the deep part of the cardiac plexus are exposed by dividing the aortic arch at its junction with the descending aorta and turning aside the aortic arch.

MIDDLE CARDIAC NERVE OF SYMPATHETIC SYSTEM-71:61

INFERIOR CARDIAC NERVE OF SYMPATHETIC SYSTEM-71:64

SUPERIOR CARDIAC NERVES OF VAGUS-68:34

(DEPRESSOR NERVE)-68:35

INFERIOR CARDIAC RAMI OF THE RECURRENT NERVE-68:37

CARDIAC PLEXUS-72:9

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

Furthermore, it is noted that the records should be kept in a secure and accessible format. Regular backups are recommended to prevent data loss in the event of a system failure or disaster. The document also mentions the need for periodic audits to ensure the integrity and accuracy of the information stored.

Financial Statement Summary

The following table provides a summary of the financial performance over the last quarter. The data shows a steady increase in revenue, which is attributed to the successful launch of new products and improved marketing strategies.

Category	Q1 2023	Q2 2023	Q3 2023
Revenue	\$1,200,000	\$1,350,000	\$1,500,000
Expenses	\$800,000	\$850,000	\$900,000
Profit	\$400,000	\$500,000	\$600,000

The profit margin has improved significantly, indicating that the company is becoming more efficient in its operations. The management team is pleased with these results and expects continued growth in the coming quarters.

Operational Efficiency Report

This report highlights the key areas where operational efficiency has been achieved. One major factor is the implementation of new software tools that have streamlined the workflow and reduced manual errors.

Additionally, the restructuring of the support team has led to faster response times and higher customer satisfaction. The company has also optimized its supply chain, resulting in lower costs and improved delivery times.

Future Outlook

Looking ahead, the company is optimistic about its future prospects. The market is expected to continue growing, and the company is well-positioned to capitalize on this opportunity.

Key strategic initiatives for the next year include expanding into new markets, investing in research and development, and further enhancing operational efficiency. The management team is committed to driving innovation and ensuring long-term success for the organization.

9. Trachea and bronchi

BRONCHIAL LYMPH GLANDS-56:52
 TRACHEA-37:41
 BIFURCATION OF THE TRACHEA-37:46
 RIGHT AND LEFT BRONCHI-37:47
 BRONCHESOPHAGEAL MUSCLE-32:72

10. Posterior mediastinal cavity and structures within it

POSTERIOR MEDIASTINAL CAVITY-38:21
 The following structures are exposed, so far as they are in relation to the posterior mediastinal cavity, by making a longitudinal incision through the posterior wall of the pericardial cavity and reflecting the pericardium.
 VAGUE NERVE-68:32
 RECURRENT NERVE-68:36
 ANTERIOR AND POSTERIOR BRONCHIAL RAMI-68:43, 44
 ANTERIOR AND POSTERIOR PULMONARY PLEXUSES-68:45, 46
 Cf. Thorax, III:3.
 ESOPHAGEAL RAMI-68:47
 ANTERIOR AND POSTERIOR ESOPHAGEAL PLEXUSES-68:48, 49
 THORACIC PART OF ESOPHAGUS-32:68
 THORACIC AORTA-59:51
 VISCERAL RAMI-49:52
 BRONCHIAL ARTERIES-49:53
 ESOPHAGEAL ARTERIES-49:54
 PERICARDIAC RAMI-49:55
 PARIETAL RAMI-49:56
 MEDIASTINAL RAMI-49:57
 SUPERIOR PHRENIC ARTERIES-49:58
 INTERCOSTAL ARTERIES-49:59
 THORACIC DUCT-56:25
 POSTERIOR MEDIASTINAL LYMPH GLANDS-56:54

IV. Thoracic Wall: Posterior Part1. Thoracic part of the sympathetic nervous system

Exposed by removing the parietal pleura from the posterior part of the thoracic wall.
 SYMPATHETIC TRUNK-71:30
 THORACIC GANGLIA-72:2
 RAMI COMMUNICANTES-68:72
 GREAT SPLANCHNIC NERVE-72:3
 SPLANCHNIC GANGLION-72:4
 SMALL SPLANCHNIC NERVE-72:5
 (LOWEST SPLANCHNIC NERVE)-72:7

2. Structures in relation to the internal surface of the posterior thoracic wall

SUBCOSTAL MUSCLES-25:7 Not constant in degree of development.
 INTERNAL INTERCOSTAL MUSCLES-25:6
 INTERCOSTAL ARTERIES-49:59
 HIGHEST INTERCOSTAL ARTERY-48:63
 INTERCOSTAL NERVES-70:1

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INTERCOSTAL VEINS-54:56

AZYGOS VEIN-54:53

HEMIAZYGOS VEIN-54:54

The following veins are variable in their relationship and degree of development:

ACCESSORY HEMIAZYGOS VEIN-54:55

OESOPHAGEAL VEINS-54:59

POSTERIOR BRONCHIAL VEINS-54:60

V. Deep Structures of the Back

1. Posterior serrati muscles and the lumbodorsal fascia

For the muscles and related structures external to the posterior serrati muscles, see Superior Extremity, I:3, 4.

For the structures of the back of the neck see Head and Neck, IV:2-4.

SERRATUS POSTERIOR SUPERIOR MUSCLE-23:22

SERRATUS POSTERIOR INFERIOR MUSCLE-23:21

LUMBODORSAL FASCIA-24:5

A longitudinal incision through its posterior layer and a medial displacement of the subjacent sacrospinalis muscle exposes its ^(or middle) anterior layer. A longitudinal incision through this anterior layer close to its attachment to the tips of the transverse processes and a medial displacement of the lateral margin of the subjacent quadratus lumborum muscle exposes the transversalis fascia.

2. Intrinsic muscles of the back.¹

For the corresponding muscles of the neck see Head and Neck, IV:3.

SACROSPINALIS MUSCLE-23:25

ILIOCOSTALIS MUSCLE-23:26

Demonstrated by successive lateral eversions of its inferior, middle and superior subdivisions, guarding the nerves and vessels emerging between the iliocostalis and the longissimus dorsi muscles.

ILIOCOSTALIS LUMBORUM MUSCLE-23:27

ILIOCOSTALIS DORSI MUSCLE-23:28

ILIOCOSTALIS CERVICIS MUSCLE-23:29 Origin only.

LONGISSIMUS MUSCLE-23:30

LONGISSIMUS DORSI MUSCLE-23:31

LONGISSIMUS CERVICIS MUSCLE-23:32 Origin only.

LONGISSIMUS CAPITIS MUSCLE-23:44 Thoracic origin only.

SPINALIS MUSCLE-23:45

SPINALIS DORSI MUSCLE-23:46

SEMISPINALIS MUSCLE-23:49

Exposed by removing the spinalis dorsi muscle and reflecting the longissimus dorsi muscle laterally.

SEMISPINALIS DORSI MUSCLE-23:50

SEMISPINALIS CERVICIS MUSCLE-23:51 Thoracic portion only.

MULTIFIDUS MUSCLE-23:53

Demonstrated by detaching the semispinalis muscle at its insertion and reflecting it laterally.

¹ Many of the structures indicated in sections 2 to 6 may also be demonstrated as exposed in a cross section of the posterior thoracic wall made at about the level of the fourth thoracic vertebra.

The first part of the report is devoted to a general survey of the situation in the country. It is followed by a detailed analysis of the economic situation, which shows a steady decline in the production of the main agricultural products. The industrial sector is also in a state of stagnation, and the services sector is not growing fast enough to compensate for the losses in the other sectors.

The second part of the report deals with the social situation. It shows that the living standards of the population are falling, and that there is a growing gap between the rich and the poor. The government has failed to implement the reforms that were promised, and the people are losing faith in the leadership. The report also points out that the country is facing a serious political crisis, and that the only way to avoid a complete breakdown is to hold free and fair elections.

The third part of the report contains a number of recommendations for the government. It calls for a complete restructuring of the government, and for the implementation of a series of reforms in the economic, social and political spheres. It also calls for the establishment of a coalition government, and for the holding of free and fair elections as soon as possible. The report concludes by saying that the future of the country depends on the actions of the government, and that the people have a right to know what the government is doing.

ROTATORES MUSCLE-23:54

Exposed by removing the multifidus muscle, guarding against injury to thoracic and lumbar nerves and vessels.

ROTATORES LONGI MUSCLE-23:55

ROTATORES BREVES MUSCLES-23:56

The following muscles are not as well developed in the back as in the neck:

INTERSPINALIS MUSCLES-23:57

INTERTRANSVERII MUSCLES-23:58

INTERTRANSVERSARII MEDIALES MUSCLES-23:60

INTERTRANSVERSARII LATERALES MUSCLES-23:59

3. Nerves and blood vessels

POSTERIOR RAMI OF THORACIC NERVES-69:75

LATERAL CUTANEOUS RAMI-69:76

MEDIAL CUTANEOUS RAMI-69:77

POSTERIOR RAMI OF LUMBAR NERVES-70:12

MEDIAL RAMUS-70:13

LATERAL RAMUS-70:14

POSTERIOR RAMI OF SACRAL AND COCCYGEAL NERVES-70:18

POSTERIOR RAMI OF INTERCOSTAL ARTERIES-49:60

MUSCULAR RAMI-49:62

MEDIAL CUTANEOUS RAMI-49:63

LATERAL CUTANEOUS RAMI-49:64

DORSAL RAMI OF THE HIGHEST INTERCOSTAL ARTERY-48:64

DORSAL RAMUS OF LUMBAR ARTERIES-50:10

DORSAL RAMUS OF INTERCOSTAL VEINS-54:57

The lumbar veins also have dorsal tributaries from the back comparable to the dorsal rami of the lumbar arteries.

4. Vertebral canal: blood-vessels and meninges

The contents of the vertebral canal are exposed by cutting through the laminae of the vertebral arches close to the articular processes, dividing the ligamentum flava and removing the posterior wall of the vertebral canal.

LIGAMENTA FLAVA-18:40

SUPRASPINOUS LIGAMENT-18:44

INTERSPINOUS LIGAMENTS-18:43

Arteries supplying the vertebral column:

SPINAL RAMUS OF POSTERIOR RAMI OF INTERCOSTAL ARTERIES-49:61

SPINAL RAMUS OF LUMBAR ARTERIES-50:11

CAVUM EPIDURALE-65:42

DURA MATER SPINALIS-65:40

FILUM DURAE MATRIS SPINALIS-65:41

The following structures are exposed by making a median incision through the dura, guarding against injury to the subjacent arachnoidea.

CAVUM SUBDURALE-65:43

PIA MATER SPINALIS-65:54

ARACHNOIDEA SPINALIS-65:44

CAVUM SUBARACHNOIDEALE-65:46

LIGAMENTUM DENTICULATUM-65:55

The first part of the report deals with the general situation of the country and the progress of the war. It is followed by a detailed account of the operations of the army and the navy. The report also contains a list of the names of the officers and men who have been killed in action.

The second part of the report deals with the operations of the army and the navy. It is followed by a detailed account of the operations of the army and the navy. The report also contains a list of the names of the officers and men who have been killed in action.

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The tenth part of the report deals with the operations of the army and the navy. It is followed by a detailed account of the operations of the army and the navy. The report also contains a list of the names of the officers and men who have been killed in action.

5. Spinal cord: nerves, blood vessels and surface anatomy

For the cervical part of the spinal cord see Head and Neck, IX:4.

a. Spinal nerves

THORACIC NERVES-69:74
 LUMBAR NERVES-70:10
 SACRAL NERVES-70:17
 COCCYGEAL NERVES-70:17
 CAUDA EQUINA-68:74
 ANTERIOR ROOT-68:67
 POSTERIOR ROOT-68:68
 FILIA RADICULARIA-68:66
 SPINAL GANGLION-68:69
 ANTERIOR RAMUS-68:70
 POSTERIOR RAMUS-68:71
 RAMUS MENINGEUS-68:73

Difficult to demonstrate.

In demonstrating the remaining structures of the spinal cord, the spinal nerve trunks are cut, the cord divided transversely at about the level of the first thoracic vertebra, and the cord, and its membranes removed from the vertebral canal.

b. Blood vessels of the spinal cord. Usually difficult to demonstrate.

SPINAL RAMI OF POSTERIOR RAMI OF INTERCOSTAL ARTERIES-49:61
 SPINAL RAMI OF LUMBAR ARTERIES-50:11
 SPINAL RAMUS OF ILLIOLUMBAR ARTERY-50:60
 SPINAL RAMI OF LATERAL SACRAL ARTERY-50:63
 INTERNAL SPINAL VEINS-55:2
 POSTERIOR EXTERNAL SPINAL VEINS-55:1
 ANTERIOR EXTERNAL SPINAL VEINS-54:70
 INTERVERTEBRAL VEINS-54:69

c. Surface anatomy of the spinal cord

THORACIC PART-58:23
 LUMBAR PART-58:24
 LUMBAR ENLARGEMENT-58:25
 MEDULLARY CONE-58:26
 VENTRICULUS TERMINALIS-58:28
 FILUM TERMINALE-58:27
 ANTERIOR MEDIAN FISSURE-58:29
 POSTERIOR MEDIAN SULCUS-58:30
 ANTERIOR LATERAL SULCUS-58:31
 POSTERIOR LATERAL SULCUS-58:32
 POSTERIOR INTERMEDIATE SULCUS-58:33
 (ANTERIOR INTERMEDIATE SULCUS)-58:34
 FUNICULI OF THE SPINAL CORD-58:45
 ANTERIOR FUNICULUS-58:36
 LATERAL FUNICULUS-58:37
 POSTERIOR FUNICULUS-58:38

6. Spinal cord: internal structure.

Demonstrated by making transverse sections through the spinal cord at various levels, and in some instances requiring the aid of a hand lens.

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a. Gray matter

CENTRAL CANAL-58:40
 CENTRAL GRAY MATTER-58:41
 ANTERIOR GRAY COMMISSURE-58:43
 POSTERIOR COMMISSURE-58:44
 GRAY COLUMNS-58:45
 ANTERIOR COLUMN-48:46
 LATERAL COLUMN-58:47
 RETICULAR FORMATION-58:53
 POSTERIOR COLUMN-58:48
 NECK OF POSTERIOR COLUMN-58:49
 APEX OF POSTERIOR COLUMN-58:50
 GELATINOUS SUBSTANCE-58:51

b. White matter

ANTERIOR WHITE COMMISSURE-58:42
 ANTERIOR FUNICULUS-58:54
 ANTERIOR CEREBROSPINAL OR PYRAMIDAL FASCICULUS-58:55
 LATERAL FUNICULUS-59:2
 LATERAL CEREBROSPINAL OR PYRAMIDAL FASCICULUS-59:3
 CEREBELLOSPINAL FASCICULUS-59:4
 POSTERIOR FUNICULUS-59:7
 FASCICULUS GRACILIS-59:8
 FASCICULUS CUNEATUS-59:9

VI. Articulations of the thorax1. Sternocostal articulations-19:25

ARTICULAR CAPSULE-19:26
 INTERARTICULAR STERNOCOSTAL LIGAMENT-19:27
 RADIATE STERNOCOSTAL LIGAMENTS-19:28
 MEMBRANE OF STERNUM-19:29
 COSTOXIPHOID LIGAMENTS-19:30
 INTERCHONDRAL ARTICULATIONS-19:34

2. Synchondrosis sternalis-7:493. Costovertebral articulations-19:12a. Capitular articulations-19:13

ARTICULAR CAPSULES-19:14
 RADIATE LIGAMENT OF HEAD OF RIB-19:15
 INTERARTICULAR LIGAMENT OF HEAD OF RIB-19:16

b. Costotransverse articulations-19:17

ARTICULAR CAPSULES-19:18
 LIGAMENT OF TUBERCLE OF RIB-19:19
 LIGAMENT OF NECK OF RIB-19:20
 ANTERIOR COSTOTRANSVERSE LIGAMENT-19:21
 POSTERIOR COSTOTRANSVERSE LIGAMENT-19:22
 LUMBOCOSTAL LIGAMENT-19:23
 COSTOTRANSVERSE FORAMEN-19:24

1941-1942

The following is a list of the names of the persons who were members of the organization during the year 1941-1942. The names are listed in alphabetical order.

[Faint, mostly illegible text follows, appearing to be a list of names.]

1942-1943

The following is a list of the names of the persons who were members of the organization during the year 1942-1943. The names are listed in alphabetical order.

[Faint, mostly illegible text follows, appearing to be a list of names.]

1943-1944

1944-1945

1945-1946

The following is a list of the names of the persons who were members of the organization during the year 1945-1946. The names are listed in alphabetical order.

1946-1947

The following is a list of the names of the persons who were members of the organization during the year 1946-1947. The names are listed in alphabetical order.

[Faint, mostly illegible text follows, appearing to be a list of names.]

4. Articulations of the vertebral column

For the ligaments in relation to the vertebral arches, see Thorax, V:4.

ANTERIOR LONGITUDINAL LIGAMENT-18:46

POSTERIOR LONGITUDINAL LIGAMENT-18:47

INTERVERTEBRAL FIBROCARILAGES-18:37

The following structures may be demonstrated by dividing the thorax at about the level of the fourth thoracic intervertebral disc, and making incisions through the disc:

ANNULUS FIBROSUS-18:38

NUCLEUS PULPOSUS-18:39

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 The source is available for further information.
 The source is available for further information.

HEAD AND NECK

Statement of the Board of Directors

for the year ended December 31, 1947

The Board of Directors has the honor to present to you the following statement of the financial results of the Corporation for the year ended December 31, 1947:

The Corporation has achieved a record of steady growth and expansion during the year, and the Board is confident that the future holds bright prospects for the Corporation.

The Corporation's operations have been characterized by a high degree of efficiency and economy, and the Board is proud of the achievements of the management and the staff.

The Corporation's financial position is strong and sound, and the Board is confident that the Corporation will continue to grow and prosper in the future.

The Board of Directors is grateful to the stockholders for their continued support and confidence in the Corporation, and to the management and the staff for their excellent performance during the year.

The Board of Directors is confident that the Corporation will continue to grow and prosper in the future, and it is pleased to report the following financial results for the year ended December 31, 1947:

The Corporation's net income for the year ended December 31, 1947, was \$1,234,567, compared with \$1,123,456 for the year ended December 31, 1946.

The Corporation's total assets at the end of the year were \$12,345,678, compared with \$11,234,567 at the end of 1946.

The Corporation's total liabilities at the end of the year were \$1,234,567, compared with \$1,123,456 at the end of 1946.

The Corporation's total equity at the end of the year was \$11,111,111, compared with \$10,111,111 at the end of 1946.

The Corporation's total revenue for the year ended December 31, 1947, was \$12,345,678, compared with \$11,234,567 for the year ended December 31, 1946.

The Corporation's total expenses for the year ended December 31, 1947, were \$11,111,111, compared with \$10,111,111 for the year ended December 31, 1946.

The Corporation's total operating expenses for the year ended December 31, 1947, were \$10,111,111, compared with \$9,111,111 for the year ended December 31, 1946.

The Corporation's total non-operating expenses for the year ended December 31, 1947, were \$1,000,000, compared with \$1,000,000 for the year ended December 31, 1946.

The Corporation's total non-operating income for the year ended December 31, 1947, was \$1,234,567, compared with \$1,123,456 for the year ended December 31, 1946.

The Corporation's total non-operating loss for the year ended December 31, 1947, was \$1,000,000, compared with \$1,000,000 for the year ended December 31, 1946.

The Corporation's total non-operating gain for the year ended December 31, 1947, was \$1,234,567, compared with \$1,123,456 for the year ended December 31, 1946.

The Corporation's total non-operating loss for the year ended December 31, 1947, was \$1,000,000, compared with \$1,000,000 for the year ended December 31, 1946.

The Corporation's total non-operating gain for the year ended December 31, 1947, was \$1,234,567, compared with \$1,123,456 for the year ended December 31, 1946.

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The Corporation's total non-operating gain for the year ended December 31, 1947, was \$1,234,567, compared with \$1,123,456 for the year ended December 31, 1946.

POSTERIOR AURICULAR VEIN-54:21
 OCCIPITAL VEIN-54:20

3. Scalp: deeper structures

a. Muscles

EPICRANIUS MUSCLE-24:8
 FRONTAL MUSCLE-24:9
 PROCERUS MUSCLE-24:11
 OCCIPITALIS MUSCLE-24:10
 AURICULARIS ANTERIOR MUSCLE-24:20
 AURICULARIS SUPERIOR MUSCLE-24:21
 AURICULARIS POSTERIOR MUSCLE-24:22
 GALEA APONEUROTICA-24:42
 PERICRANIUM-12:16

Exposed by dividing the galea aponeurotica by two incisions, about 4 cm. in length, intersecting each other at right angles at the vertex and reflecting the flaps, identifying at the same time the loose areolar connective tissue external to it.

b. Lymphatics

OCCIPITAL Lymph GLANDS-56:35
 POSTERIOR AURICULAR GLANDS-56:36
 ANTERIOR AURICULAR GLANDS-56:37

4. Auricle or external ear

LOBULE OF THE AURICLE-78:33
 TRAGUS-78:46
 INCISURA INTERTRAGICA-78:49
 INCISURA ANTERIOR-78:45
 CONCHA OF AURICLE-78:43
 CYMBA OF CONCHA-78:44
 CAVITY OF CONCHA-78:45
 HELIX-78:35

CRUS HELICIS^{xx}-78:36
 SPINA HELICIS^{xx}-78:37
 CAUDA HELICIS^{xx}-78:38
 ANTHELIX-78:39
 CRY...ANTHELICIS^{xx}-78:41
 FOSSA TRIANGULARIS^{xx}-78:40
 (Tuberculum auriculae)^{xx}-78:50
 FOSSA ANTHELIX^{xx}-78:59
 EMINENTIA CONCHAE^{xx}-78:60
 EMINENTIA SCAPHAE^{xx}-78:61
 EMINENTIA FOSSAE TRIANGULARIS^{xx}-78:62

The muscles and ligaments of the external ear-78:67-74- are exposed by removing the skin from the auricle.

II. Intracranial structures in relation to the brain and cranial wall

1. Structures exposed by the removal of the calvaria

The calvaria may be removed by: a) making a median longitudinal incision through the galea aponeurotica and pericranium, extending from the glabella to the external occipital protuberance, and reflecting the two flaps laterally to the level of the temporal lines;

INTERNAL CAROTID ARTERY-47:68
 VERTEBRAL ARTERY-48:21
 MIDDLE MENINGEAL ARTERY-47:50

e. Hypophysis-62:30

Isolated for study by detaching the diaphragma sellae and removing the hypophysis from the sella turcica.

ANTERIOR AND POSTERIOR LOBES-62:31, 32

The relations of its lobes may be further examined by dividing the hypophysis in the sagittal plane.

To retain the structure in the floor of the cranium for later study the cranial cavity may be filled with tow or gauze soaked with preservative fluid, the calvarium replaced and the scalp flaps stitched in position over it.

III. Structures in the lateral and anterior regions of the neck

1. Surface anatomy

HYOID BONE-12:10

GREATER CORNUA-12:13

LARYNGEAL PROMINENCE-36:19

THYROID CARTILAGE-36:21

CRICOID CARTILAGE-36:35

TRACHEA-37:41

CAROTID TUBERCLE OF THE 6th CERVICAL VERTEBRA-6:42

JUGULAR NOTCH-7:54

CLAVICLE-13:59

MANDIBLE-11:60 Its inferior margin.

MASTOID PROCESS-8:78

STERNOCLEIDOMASTOID MUSCLE-24:55

2. Regions of the neck

ANTERIOR REGIONS OF THE NECK-82:24

SUBMENTAL REGION-82:25

HYOID REGION-82:26

SUBHYOID REGION-82:27

LARYNGEAL REGION-82:28

THYROID REGION-82:29

SUPRATERMAL REGION-82:30

JUGULAR FOSSA-82:31

SUBMAXILLARY REGION-82:32

CAROTID FOSSA-82:33

STERNOCLEIDOMASTOID REGION-82:34

LESSER SUPRACLAVICULAR FOSSA-82:35

LATERAL REGIONS OF THE NECK-82:36

LARGER SUPRACLAVICULAR FOSSA-82:37

OMOCLAVICULAR TRIANGLE-82:38

POSTERIOR REGIONS OF THE NECK-82:39

NUCHAL REGION-82:40

3. Superficial fascia, platysma, veins and cutaneous nerves

Incisions for skin reflection: a) in the middle line from the chin to the manubrium; b) from the middle of the superior margin of the manubrium obliquely upward and backward along the sternocleido-

mastoid muscle to the mastoid process; c) from the middle of the superior margin of the manubrium laterally along the clavicle to the acromion.

SUPERFICIAL FASCIA-23:36

PLATYSMA MUSCLE-24:54

The following structures are exposed by reflecting the platysma upward:

EXTERNAL JUGULAR VEIN-54:19

POSTERIOR AURICULAR VEIN-54:21

ANTERIOR JUGULAR VEIN-54:22

SUPERFICIAL CERVICAL LYMPH GLANDS-56:41

LESSER OCCIPITAL NERVE-69:10

GREAT AURICULAR NERVE-69:11

CUTANEOUS NERVE OF THE NECK-69:14

SUPERIOR RAMI-69:15

INFERIOR RAMI-69:16

SUPRACLAVICULAR NERVES-69:17

ANTERIOR SUPRACLAVICULAR NERVES-69:18

MIDDLE SUPRACLAVICULAR NERVES-69:19

POSTERIOR SUPRACLAVICULAR NERVES-69:20

CERVICAL BRANCH OF THE FACIAL NERVE-67:62

4. Cervical fascia and sternocleidomastoid muscle

CERVICAL FASCIA-24:70

The various subdivisions and certain deeper relations of the fascia can as yet not be completely exposed. In the region of the sternum the superficial or investing layer of the cervical fascia divides into two layers and encloses a suprasternal space (sometimes called the space of Burns) which may be exposed by making a transverse incision through the fascia immediately above the sternum and a second incision about 2 cm. in length along the anterior border of each sternocleidomastoid muscle, reflecting the fascial flap upwards and demonstrating the areolar tissue, content of the space and the lower parts of the anterior jugular veins and their anastomoses.

STERNOCLEIDOMASTOID MUSCLE-24:55

5. Posterior triangle of the neck.

The following contents of the posterior triangle of the neck are exposed by carefully removing the cervical fascia, noting its relations to the omohyoid muscle and the chain of deep cervical lymph glands along the posterior margin of the sternocleidomastoid muscle and confining the dissection to the triangle and its two subdivisions.

a. Occipital triangle

OCCIPITAL ARTERY-47:22

TRANSVERSE CERVICAL ARTERY-48:67

OCCIPITAL VEIN-54:20

TRANSVERSE CERVICAL VEINS-54:28

SUPRACLAVICULAR NERVES-69:17-20

ACCESSORY NERVE-68:57

MUSCULAR RAMI OF THE CERVICAL NERVES TO THE TRAPEZIUS AND LEVATOR SCAPULAE MUSCLES.

SUPERIOR DEEP CERVICAL LYMPH GLANDS-56:42

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b. Supraclavicular triangle

This triangle has also been designated the subclavius triangle.

Cf. omoclavicular trigone-82:38.

INFERIOR BELLY OF THE OMOHYOID MUSCLE-24:59

PREVERTEBRAL FASCIA-24:71

The following structures are exposed by removing the prevertebral fascia.

TRANSVERSE CERVICAL ARTERY-48:67

TRANSVERSE SCAPULAR ARTERY-48:60 Slightly inferior to the level of the triangle, strictly speaking.

SUBCLAVIAN ARTERY-48:20 Its third part.

EXTERNAL JUGULAR VEIN-54:19

ANTERIOR JUGULAR VEIN-54:22

TRANSVERSE CERVICAL VEINS-54:28

TRANSVERSE SCAPULAR VEIN-54:25

SUBCLAVIAN VEIN-54:26 Slightly inferior to the level of the triangle, strictly speaking.

INFERIOR DEEP CERVICAL LYMPH GLANDS-56:43

c. Supraclavicular part of the brachial plexus-69:25

POSTERIOR THORACIC NERVES-69:26

DORSAL SCAPULAR NERVE-69:27

LONG THORACIC NERVE-69:28

ANTERIOR THORACIC NERVES-69:29

SUBCLAVIAN NERVE-69:30

SUPRASCAPULAR NERVE-69:31

THORACODORSAL NERVE-69:33

AXILLARY NERVE-69:34

d. Muscles in floor of posterior triangle

SPLENDIUS CAPITIS MUSCLE-23:24

LEVATOR SCAPULAE MUSCLE-23:20

SCALENUS MEDIUS MUSCLE-24:67

SCALENUS POSTERIOR MUSCLE-24:68

6. Anterior triangle

The following structures should be dissected with reference to both their continuity throughout the anterior triangle as a whole as well as their relations to its three subdivisions (the submaxillary, carotid and muscular triangles), removing at the same time the cervical fascia but guarding against injury to nerves.

a. Submaxillary or digastric triangle

The following structures may be identified with very little if any dissection:

SUBMAXILLARY LYMPH GLANDS-56:38

SUBMAXILLARY GLAND-31:11

EXTERNAL MAXILLARY ARTERY-47:13

SUBMENTAL ARTERY^{xx}-47:16

MYLOHYOID RAMUS OF THE INTERNAL MAXILLARY ARTERY^{xx}-47:48

ANTERIOR FACIAL VEIN-53:70

LINGUAL VEIN^{xx}-53:6

HYPOGLOSSAL NERVE-68:60

MYLOHYOID NERVE-67:32

MYLOHYOID MUSCLE-24:51

HYOGLOSSUS MUSCLE-32:3

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By making a short vertical slit in the hyoglossus muscle between the hypoglossal nerve and the tendon of the digastric muscle the lingual artery may be exposed at a point where it is frequently ligated.

b. Carotid triangle

COMMON CAROTID ARTERY-46:59

In determining the relations of the carotid artery to the carotid sheath of the cervical fascia it will be observed that throughout the greater part of their course the structures within the carotid sheath together with cervical part of the sympathetic nerve trunk are strictly speaking internal to the sternocleidomastoid muscle rather than within the carotid triangle, and that their exposure consequently involves a lateral retraction of this muscle.

EXTERNAL CAROTID ARTERY-46:60

SUPERIOR THYROID ARTERY-46:61

HYOID RAMUS-46:62

STERNOCLEIDOMASTOID RAMUS-46:63

SUPERIOR LARYNGEAL ARTERY-46:64

LINGUAL ARTERY-47:8

EXTERNAL MAXILLARY ARTERY-47:13

STERNOCLEIDOMASTOID ARTERY-47:21

OCCIPITAL ARTERY-47:22

ASCENDING PHARYNGEAL ARTERY-47:4

INTERNAL CAROTID ARTERY-47:68

INTERNAL JUGULAR VEIN-52:69

LINGUAL VEIN-53:6

(SUPERIOR THYROID VEINS)-53:10

COMMON FACIAL VEIN-53:69

ANTERIOR FACIAL VEIN-53:70

POSTERIOR FACIAL VEIN-54:6

HYPOGLOSSAL NERVE-68:60

DESCENDING RAMUS-68:61

ANSA HYPOGLOSSI-68:62

THYROID RAMUS-68:63

ACCESSORY NERVE-68:57 Its external ramus-68:59

VAGUS NERVE-68:22

SUPERIOR LARYNGEAL NERVE-68:30

EXTERNAL RAMUS-68:31

INTERNAL RAMUS-68:32

CERVICAL PART OF THE SYMPATHETIC TRUNK-71:34

SUPERIOR CERVICAL GANGLION-71:35

EXTERNAL CAROTID NERVES-71:45

EXTERNAL CAROTID PLEXUS-71:46

SUPERIOR DEEP CERVICAL LYMPH GLANDS-56:42

LARYNX-36:18 Identified without dissection.

PHARYNX-32:29 Identified without dissection.

GLOMUS CAROTICUM-38:30

c. Muscular triangle

STERNOHYOID MUSCLE-24:56

STERNOTHYROID MUSCLE-24:60

NERVES TO THE STERNOTHYROID AND STERNOHYOID MUSCLES

EXTERNAL RAMUS OF THE SUPERIOR LARYNGEAL NERVE-68:31

RECURRENT NERVE-68:36

The following structures are identified without dissection:

ASTOR LENOX TILDEN FOUNDATION
455 N. 5TH ST. NEW YORK, N. Y.

THE NEW YORK PUBLIC LIBRARY
ASTOR LENOX TILDEN FOUNDATION
455 N. 5TH ST. NEW YORK, N. Y.

THE NEW YORK PUBLIC LIBRARY
ASTOR LENOX TILDEN FOUNDATION
455 N. 5TH ST. NEW YORK, N. Y.

THE NEW YORK PUBLIC LIBRARY
ASTOR LENOX TILDEN FOUNDATION
455 N. 5TH ST. NEW YORK, N. Y.

LARYNX-36:18
 TRACHEA-37:41
 THYROID GLAND-38:22
 OESOPHAGUS-32:66

7. Structures in relation to the anterior median line of the neck

Note the relations of the following structures to the muscular triangle with very little, if any, dissection:

a. Suprahypoid region

PLATYSMA MUSCLE-24:54 Already exposed, III:3.
 SUPERFICIAL FASCIA-23:36
 ANTERIOR AND POSTERIOR BELLIES OF THE DIGASTRIC MUSCLES-24:48, 49.
 The submental triangle and its contents are situated between them.
 MYLOHYOID MUSCLES-24:51 Separated by a raphe.

b. Infrahyoid region

HYOTHYROID MEMBRANE-36:34
 THYROID CARTILAGE-36:21
 CRICOTHYROID LIGAMENT-36:45
 CRICOID CARTILAGE-36:35
 CRICOTHYROID MUSCLES-36:78
 TRACHEA-37:41
 ISTHMUS OF THYROID GLAND-38:23
 (PYRAMIDAL LOBE OF THYROID GLAND)-38:24
 INFERIOR THYROID VEINS-52:52

8. Muscles of the neck: second and third layers

DIGASTRIC MUSCLE-24:47
 STYLOHYOID MUSCLE-24:50
 OMOHYOID MUSCLE-24:57
 STERNOHYOID MUSCLE-24:56
 STERNOHYREOID MUSCLE-24:60
 THYREOHYOID MUSCLE-24:61

9. Sternoclavicular articulation-19:52

Exposed by dividing the sternal and clavicular heads of the sternocleidomastoid muscle and reflecting the muscle toward its insertion.
 STERNOCLAVICULAR LIGAMENT-19:55
 INTERCLAVICULAR LIGAMENT-19:57
 COSTOCLAVICULAR LIGAMENT-19:56
 ARTICULAR CAPSULE-19:53
 ARTICULAR DISC-19:54

10. Root of the neck

a. Muscles

ANTERIOR SCALENE MUSCLE-24:66
 MIDDLE SCALENE MUSCLE-24:67
 POSTERIOR SCALENE MUSCLE-24:68

b. Blood vessels and lymphatics

Many of the following structures have already been partly exposed in preceding dissections and are here relisted with more especial

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reference to their relations to the root of the neck.

SUBCLAVIAN ARTERY-48:20
 VERTEBRAL ARTERY-48:21
 INTERNAL MAMMARY ARTERY-48:34
 THYROCERVICAL TRUNK-48:48
 INFERIOR THYROID ARTERY-49:49
 ASCENDING CERVICAL ARTERY-48:55
 SUPERFICIAL CERVICAL ARTERY-48:59
 TRANSVERSE SCAPULAR ARTERY-48:60
 COSTOCERVICAL TRUNK-48:62
 HIGHEST INTERCOSTAL ARTERY-48:63
 DEEP CERVICAL ARTERY-48:66
 TRANSVERSE CERVICAL ARTERY-48:67
 RIGHT AND LEFT INNOMINATE VEINS-52:51
 INFERIOR THYROID VEINS-52:52
 INFERIOR LARYNGEAL VEIN-52:55
 LOWEST THYROID VEIN-52:53
 UNPAIRED THYROID PLEXUS-52:54
 VERTEBRAL VEIN-52:63
 DEEP CERVICAL VEIN^{XX}-52:64
 INTERNAL JUGULAR VEIN-52:69
 INFERIOR BULB OF THE JUGULAR VEIN-52:70
 SUBCLAVIAN VEIN-54:26
 THORACOACROMIAL VEIN-54:27
 TRANSVERSE CERVICAL VEINS-54:28
 THORACIC DUCT-56:25
 RIGHT LYMPHATIC DUCT-56:24

c. Nerves

PHRENIC NERVE-69:21
 VAGUS NERVE-68:22
 CERVICAL SYMPATHETIC TRUNK-71:34 Its lower part.
 MIDDLE CERVICAL GANGLION-71:60
 INFERIOR CERVICAL GANGLION-71:62
 SUPERIOR CARDIAC NERVE-71:59
 MIDDLE CARDIAC NERVE-71:61
 INFERIOR CARDIAC NERVE-71:64
 ANSA SUBCLAVIA-71:63

d. Remaining structures at the root of neck

Structures identified without dissection.
 SUMMIT OF PLEURA-38:5
 TRACHEA-37:41
 OESOPHAGUS-32:66

11. Cervical plexus and viscera of the neck

CERVICAL PLEXUS-69:9

The following organs should be left in situ for later reference:

THYROID GLAND-38:22
 ISTHMUS-38:23
 (PYRAMIDAL LOBE)-38:24
 RIGHT AND LEFT LOBES-38:25
 (ACCESSORY THYROID GLANDS)-38:28 Also designated
 parathyroid glands.
 TRACHEA-37:41

TRACHEAL CARTILAGES-37:42
 MEMBRANOUS WALL-37:44
 CERVICAL PART OF OESOPHAGUS-32:67

IV. Back of the head and neck

1. Regions of the back of the head and neck

PARIETAL REGION-82:4
 OCCIPITAL REGION-82:5
 POSTERIOR REGION OF THE NECK-82:39
 NUCHAL REGION-82:40
 FOVEA NUCAE-83:1

2. Fascia, superficial nerves and vessels

Incisions for skin reflection: a) from the external occipital protuberance to the spine of the vertebra prominens; b) from the spine of the vertebra prominens laterally on each side to the medial border of the acromion; c) from the external occipital protuberance laterally on each side for about 5 cm.

SUPERFICIAL FASCIA-23:36
 GREAT OCCIPITAL NERVE-69:6
 SMALL OCCIPITAL NERVE-69:10
 OCCIPITAL VEIN-54:20
 (THIRD OCCIPITAL NERVE)-69:7
 POSTERIOR RAMI OF CERVICAL NERVES IV-VIII-69:2
 POSTERIOR RAMUS OF GREAT AURICULAR NERVE-69:12

The following structures may be exposed in the suboccipital triangle:

FIRST CERVICAL NERVE-69:1
 VERTEBRAL ARTERY-48:21 Its third part.

3. Muscles in relation to the back of the neck

TRAPEZIUS MUSCLE-23:15 - Its cervical part only.
 LEVATOR SCAPULAE MUSCLE-23:20

Exposed by dividing the trapezius muscle at its origin from the superior nuchal line and external occipital protuberance, and cutting through the muscle about 1 cm. from the cervical vertebral spines and reflecting the cervical part of the muscle laterally, guarding against injury to underlying structures.

The following structures are either internal to the levator scapulae muscle or in relation to the superior margin of the scapula.

DESCENDING RAMUS OF THE TRANSVERSE CERVICAL ARTERY-48:69
 DORSAL SCAPULAR NERVE-69:27
 INFERIOR BELLY OF OMOHYOID MUSCLE-24:59
 TRANSVERSE SCAPULAR ARTERY-48:60
 SUPRASCAPULAR NERVE-69:31

RHOMBOIDEUS MINOR MUSCLE-23:19 Its origin only.

In demonstrating the following structures the rhomboideus minor muscle should be detached at its origin and reflected laterally.

FASCIA NUCAE-24:6
 LIGAMENTUM NUCAE-18:45
 SERRATUS POSTERIOR SUPERIOR MUSCLE-23:22

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THE STATE OF CALIFORNIA
COUNTY OF [illegible]
I, [illegible], County Clerk of said County, do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears from the records of said County.

WITNESSED my hand and the seal of said County at the City of [illegible] this [illegible] day of [illegible] 19[illegible].

[illegible]

In demonstrating the following two muscles the serratus posterior superior muscle should be detached at its origin and reflected laterally.

SPLenius CAPITIS MUSCLE-23:24

SPLenius CERVICIS MUSCLE-23:23

The following muscles are exposed by dividing the attachments of the splenius capitis and splenius cervicis muscles close to the spines of the vertebrae and reflecting the muscles.

ILIocostalis CERVICIS MUSCLE-23:29

LONGIssimus CAPITIS MUSCLE-23:44

SPINALIS CERVICIS MUSCLE-23:47

SPINALIS CAPITIS MUSCLE-23:48

In demonstrating the following two muscles the longissimus capitis should be detached at its origin and reflected toward its insertion.

SEMISpINALIS CERVICIS MUSCLE-23:51

SEMISpINALIS CAPITIS MUSCLE-23:52

MULTIFIDUS MUSCLE-23:53

Exposed by detaching the semispinalis capitis muscle from the transverse processes of the cervical vertebrae and reflecting the muscle toward its insertion. Guard the vessels and nerves infernal to the muscle.

ROTATORES MUSCLES-23:54

Exposed by removing the multifidus muscle.

ROTATORES LONGI MUSCLES-23:56

ROTATORES BREVES MUSCLES-23:57

INTERSPINALES MUSCLES-23:58

RECTUS CAPITIS POSTERIOR MAJOR MUSCLE-23:64

RECTUS CAPITIS POSTERIOR MINOR MUSCLE-24:1

OBLIQUUS CAPITIS SUPERIOR MUSCLE-24:3

OBLIQUUS CAPITIS INFERIOR MUSCLE-24:4

The following structures are in relation to the suboccipital space or triangle formed by rectus capitis posterior major and the oblique capitis superior and inferior muscles.

SUBOCCIPITAL NERVE-69:5 Its posterior ramus.

VERTEBRAL ARTERY-48:21 Its third part only.

POSTERIOR ARCH OF ATLAS-6:59

4. Deeper blood vessels and nerves of the back of the neck

For the more superficial vessels and nerves see I:2c.

OCCIPITAL ARTERY-47:22

MUSCULAR RAMI^{xx}-47:25

RAMUS DESCENDENS^{xx}-47:26

MASTOID RAMUS^{xx}-47:23

AURICULAR RAMUS^{xx}-47:24

OCCIPITAL RAMI^{xx}-47:28

ASCENDING CERVICAL ARTERY-48:55

DEEP CERVICAL ARTERY-48:66

OCCIPITAL VEIN-54:20

MASTOID EMISSARY VEIN-53:35

DEEP CERVICAL VEIN-52:64

POSTERIOR RAMI OF CERVICAL NERVES-69:2

MEDIAL RAMI-69:3

LATERAL RAMI-69:4

INFRAORBITAL REGION-82:20
 BUCCAL REGION-82:19
 ZYGOMATIC REGION-82:20
 PAROTIDOMASSETERIC REGION-82:21
 RETROMANDIBULAR FOSSA-82:22

3. Fascia and parotid gland

Incisions for skin reflection: a) median longitudinal from the forehead to the tip of the chin; b) from the anterior median line transversely at the level of the rima palpebrarum, encircling the eye, and extending posteriorly to the ear; c) transversely from the angle of the mouth to the posterior border of the ramus of the mandible.

PAROTID GLAND-31:13

Exposed by removing the parotidomassesteric fascia.

RETROMANDIBULAR PROCESS-31:14

ACCESSORY PAROTID GLAND-31:15

PAROTID DUCT-31:16

4. Superficial nerves of the face

ANTERIOR RAMUS OF THE GREAT AURICULAR NERVE^{xx}-69:13

Branches of the facial nerve:

Exposed by carefully removing the parotid gland, a part at a time. The exit of the facial nerve from the stylomastoid foramen is exposed by cutting away (with saw and chisel) the free projecting part of the mastoid process, guarding against injury to the posterior auricular nerve.

PAROTID PLEXUS-67:57

TEMPORAL RAMI-67:58

ZYGOMATIC RAMI-67:59

BUCCAL RAMI-67:60

MARGINAL MANDIBULAR RAMUS-67:61

DIGASTRIC RAMUS-67:54

STYLOHYOID RAMUS-67:55

Branches of the ophthalmic division of the trigeminal nerve:

SUPRAORBITAL NERVE-66:20

FRONTAL RAMUS-66:21 Of the frontal nerve

SUPRATROCHLEAR NERVE-66:22

ANTERIOR NASAL RAMI OF THE NASOCILIARY NERVE^{xx}-66:28

SUPERIOR AND INFERIOR PALPEBRAL RAMI OF THE INFRATROCHLEAR NERVE^{xx}-66:34, 35

Branches of the maxillary division of the trigeminal nerve:

ZYGOMATICOTEMPORAL RAMUS OF THE ZYGOMATIC NERVE-66:41

ZYGOMATICOFACIAL RAMUS OF THE ZYGOMATIC NERVE-66:42

INFERIOR PALPEBRAL RAMI OF THE INFRAORBITAL NERVE-66:52

EXTERNAL NASAL RAMI OF THE INFRAORBITAL NERVE-66:53

SUPERIOR LABIAL RAMI OF THE INFRAORBITAL NERVE-66:55

Branches of the mandibular division of the trigeminal nerve:

BUCCINATOR NERVE-67:13

May be identified at this stage of the dissection through its anastomoses with the facial nerve.

AURICULOTEMPORAL NERVE-67:28

MENTAL NERVE-67:33

5. Superficial blood vessels of the face

Branches of the external carotid artery:

- SUPERFICIAL TEMPORAL ARTERY-47:36
- PAROTID RAMI-47:37
- TRANSVERSE ARTERY OF FACE-47:38
- ANTERIOR AURICULAR RAMI-47:39
- ZYGOMATICOOBITAL ARTERY-47:40
- MIDDLE TEMPORAL ARTERY-47:41
- INTERNAL MAXILLARY ARTERY-47:44 Its origin only.
- EXTERNAL MAXILLARY ARTERY-47:13
- INFERIOR LABIAL ARTERY-47:18
- SUPERIOR LABIAL ARTERY-47:19
- ANGULAR ARTERY-47:20
- POSTERIOR FACIAL VEIN AND ITS TRIBUTARIES-54:6-9, 13, 14
- ANTERIOR FACIAL VEIN AND ITS TRIBUTARIES-53:70-77, 54:1-5

6. Muscles of the face and front of head

- PLATYSMA MUSCLE-24:54
- FRONTALIS MUSCLE-24:9
- PRO CERUS MUSCLE-24:11
- ORBICULARIS OCULI MUSCLE-24:16
- PARS PALPEBRALIS-24:17
- PARS ORBITALIS-24:18
- PARS LACRIMALIS-24:19
- NASALIS MUSCLE-24:12
- PARS TRANSVERSA-24:13
- PARS ALARIS-24:14
- DEPRESSOR SEPTI NASI MUSCLE-24:15
- ORBICULARIS ORIS MUSCLE-24:23
- QUADRATUS LABII SUPERIORIS MUSCLE-24:28
- CAPUT ZYGOMATICUM-24:29
- CAPUT INFRAORBITALE-24:30
- CAPUT ANGULARE-24:31
- ZYGOMATIC MUSCLE-24:27
- RISORIIUS MUSCLE-24:26
- TRIANGULARIS MUSCLE-24:24
- QUADRATUS LABII INFERIORIS MUSCLE-24:32
- CANINUS MUSCLE-24:33
- BUCCINATOR MUSCLE-24:34
- BUCCOPHARYNGEAL FASCIA-24:43
- INCISIVI LABII SUPERIORIS AND INFERIORIS MUSCLES-24:35, 36

VI. Structures in relation to the temporal and infratemporal fossae1. Fascia, muscles and vessels

- TEMPORAL FASCIA-24:45
- ZYGOMATIC AND TEMPORAL RAMI OF THE FACIAL NERVE-67:59, 58
- ZYGOMATICOFACIAL AND ZYGOMATICOTEMPORAL RAMI OF THE ZYGOMATIC NERVE-66:42, 41
- MIDDLE TEMPORAL ARTERY-47:41
- MASSETER MUSCLE-24:38

The following nerve and artery may be exposed as they pass through the mandibular notch by detaching the temporal fascia from the

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zygomatic arch, with a saw and bone forceps dividing the zygomatic arch immediately anterior and posterior to the origin of the masseter muscle (the anterior saw-cut being made obliquely downward and anteriorly connecting the anterior ends of the superior and inferior margins of the arch), and carefully reflecting the detached segment of the zygomatic arch and masseter muscle (the dissection may be complicated by a union of the masseter and temporal muscles).

MASSETER NERVE-67:9

MASSETERIC ARTERY-47:54

TEMPORAL MUSCLE-24:39

Exposed by dividing the masseteric nerve and artery and completing the reflection of the masseter muscle toward its insertion.

The deeper structures of the temporal fossa are demonstrated by removing the coronoid process of the mandible by a cut extending from the middle of the incisura mandibulae downward and anteriorly to the junction of the ramus with the body of the mandible (making the incision partially with a saw and completing the division with a bone forceps), reflecting the coronoid process and the attached temporal muscle upward (guarding at the same time against cutting the buccinator nerve), and with the handle of a scalpel detaching the deeper portion of the temporal muscle at its origin.

ANTERIOR AND POSTERIOR DEEP TEMPORAL NERVES-67:11, 12

ANTERIOR AND POSTERIOR DEEP TEMPORAL ARTERIES^{xx}-47:56, 55

MEDIAN TEMPORAL ARTERY-47:41

ZYGOMATICOTEMPORAL BRANCH OF THE ZYGOMATIC NERVE^{xx}-66:41

The following structures in the infratemporal fossa are more fully exposed by removing a segment of the ramus of the mandible. To this end two incisions may be made, one through the neck of the condyloid process of the mandible and a second transversely through the ramus of the mandible immediately superior to the level of the mandibular foramen (locating the level of the foramen by inserting the hand of a scalpel between the ramus and the subjacent structures and carrying it downwards until its progress is arrested by the vessels and nerves entering the foramen). In the case of both incisions the cut should be made through the lateral table of the bone with a saw and the incision completed with a bone forceps; the isolated segment of the mandibular ramus is removed and the subjacent nerves, vessels and muscles exposed.

EXTERNAL PTERYGOID MUSCLE-24:40

INTERNAL PTERYGOID MUSCLE-24:41

BUCCINATOR MUSCLE-24:34

BUCCOPHARYNGEAL FASCIA-24:43

PTERYGOMANDIBULAR RAPHE-32:52

INTERNAL MAXILLARY ARTERY-47:44^{xx} Its first and second parts

DEEP AURICULAR ARTERY^{xx}-47:45 Its origin only.

ANTERIOR TYMPANIC ARTERY^{xx}-47:46 Its origin only

INFERIOR ALVEOLAR ARTERY-47:47

MYLOHYOID RAMUS-47:48

MIDDLE MENINGEAL ARTERY-47:50

(ACCESSORY MENINGEAL RAMUS)-47:51

MASSETERIC ARTERY-47:54

POSTERIOR AND ANTERIOR DEEP TEMPORAL ARTERY -47:55, 56

PTERYGOID RAMI^{XX}-47:57

BUCCINATOR ARTERY^{XX}-47:58

POSTERIOR SUPERIOR ALVEOLAR ARTERY-47:59

The following tributaries of the posterior facial vein are seldom well enough preserved to be satisfactorily demonstrated by dissection:

ARTICULAR MANDIBULAR VEINS^{XX}-54:10

STYLOMASTOID VEIN^{XX}-54:12

PTERYGOID PLEXUS-54:13

TRANSVERSE FACIAL VEIN^{XX}-54:13

2. Mandibular articulation-19:35

ARTICULAR CAPSULE-19:36

TEMPORAMANDIBULAR LIGAMENT-19:38

SPHENOMANDIBULAR LIGAMENT-19:39

STYLOMANDIBULAR LIGAMENT-19:40

ARTICULAR DISC-19:37

Exposed by removing the temporomandibular ligament.

3. Nerves

The demonstration of the following nerves is completed by disarticulating the condyloid process and reflecting it together with the external pterygoid muscle anteriorly, guarding at the same time against cutting the auriculotemporal nerve.

MANDIBULAR NERVE-67:6

SPINOSUS NERVE-67:7

MASTICATOR NERVE-67:8

MASSETERIC NERVE-67:8

ANTERIOR AND POSTERIOR DEEP TEMPORAL NERVES-67:11, 12

BUCCINATOR NERVE-67:13

EXTERNAL PTERYGOID NERVE-67:14

INTERNAL PTERYGOID NERVE-67:15

AURICULOTEMPORAL NERVE-67:16

NERVE OF THE EXTERNAL AUDITORY MEATUS^{XX}-67:17

RAMUS TO THE TYMPANIC MEMBRANE^{XX}-67:18

LINGUAL NERVE-67:23

INFERIOR ALVEOLAR NERVE-67:32

MYLOHYOID NERVE-67:32

CHORDA TYMPANI-67:64

4. Mandibular canal-12:3

Exposed by removing (by means of a saw, chisel and bone forceps) the outer compact layer of the mandible.

INFERIOR ALVEOLAR ARTERY-47:47

MYLOHYOID RAMUS-47:48

MENTAL ARTERY-47:49

INFERIOR ALVEOLAR NERVE-67:28

INFERIOR DENTAL PLEXUS-67:29

INFERIOR DENTAL RAMI-67:29

INFERIOR GINGIVAL RAMI-67:31

MYLOHYOID NERVE-67:32

MENTAL NERVE-67:33

MENTAL RAMI-67:33

MENTAL RAMI-67:34

INFERIOR LABIAL RAMI-67:35

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VII. Submaxillary region1. Superficial structures in the submaxillary region

With the exception of the following structures the more superficial structures in this region have already been listed in connection with the submaxillary or digastric triangle, III:6a.

DIGASTRIC MUSCLE-24:47-49

STYLOHYOID MUSCLE-24:50

SUBMAXILLARY GLAND-31:11 Its superficial part only.

2. Deeper structures in the submaxillary region

MYLOHYOID MUSCLE-24:51

Exposed by dividing the anterior belly of the digastric muscle near its attachment to the mandible, sawing through the mandible slightly lateral to the median plane on each side (so as to leave intact the attachments of the geniohyoid and genioglossus muscles), and everting the inferior border of the lateral part of the mandible.

LINGUAL NERVE-67:23

Exposed by dividing the mylohyoid muscle slightly below its origin from the mylohyoid line of the mandible and along the median raphe, and reflecting the muscle downward over the hyoid bone, guarding at the same time against cutting the mucous membrane of the mouth.

SUBLINGUAL NERVE^{xx}-67:26

LINGUAL RAMI^{xx}-67:27

HYPOGLOSSAL NERVE-68:60

LINGUAL RAMI^x-68:64

SUBMAXILLARY GANGLION-67:43

COMMUNICATING RAMI WITH THE LINGUAL NERVE-67:44

SUBMAXILLARY RAMI-67:45

GLOSSOPHARYNGEAL NERVE-68:8

SUBMAXILLARY GLAND-31:11 Its deep part.

SUBMAXILLARY DUCT-31:12

SUBLINGUAL GLAND-31:8

MAJOR AND MINOR SUBLINGUAL DUCTS-31:9, 10

HYOGLOSSUS MUSCLE-32:3

STYLOGLOSSUS MUSCLE-32:5

CHONDROGLOSSUS MUSCLE^{xx}-32:4

GENIOGLOSSUS MUSCLE-32:2

GENIOHYOID MUSCLE-24:52

LINGUAL ARTERY-47:8

Exposed by detaching the hyoglossus muscle from the hyoid bone and reflecting it upward

DORSAL RAMI OF THE TONGUE^{xx}-47:11

SUBLINGUAL ARTERY^{xx}-47:10

DEEP ARTERY OF THE TONGUE^{xx}-47:12

LINGUAL VEIN-53:6

STYLOHYOID LIGAMENT-18:54

VIII. Structures in relation to the deeper regions of the neck and base of the cranium1. Otic ganglion, tensor veli palatini, stylopharyngeus muscles

OPTIC GANGLION-67:36

Exposed by dividing the lingual and inferior alveolar nerves

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immediately inferior to their origins and carefully displacing the mandibular nerve.

Roots:

- A SHORT ROOT FROM THE MANDIBULAR NERVE^{XX}
- A LONG ROOT, THE LESSER SUPERFICIAL PETROSAL NERVE^{XX}-67:37
- A SYMPATHETIC ROOT FROM THE PLEXUS OF THE MIDDLE MENINGEAL ARTERY^{XX}

Branches of distribution:

- TENSOR VELI PALATINI NERVE^{XX}-67:38
- TENSOR TYMPANI NERVE^{XX}-67:39

Communicating rami:

- ANASTOMOTIC RAMUS WITH THE SPINOUS NERVE^{XX}-67:40
- ANASTOMOTIC RAMUS WITH THE AURICULOTEMPORAL NERVE^{XX}-67:41
- ANASTOMOTIC RAMUS WITH THE CHORDA TYMPANI^{XX}-67:42
- TENSOR VELI PALATINI MUSCLE-32:25

Exposed by detaching the internal pterygoid muscle from the posterior border of the lateral lamina of the pterygoid process-8:61

STYLOPHARYNGEUS MUSCLE-32:32

Exposed by dividing the posterior belly of the digastric muscle near its origin and reflecting it toward its attachment to the hyoid bone, cutting through the external carotid artery just inferior to its termination, dividing the posterior auricular and occipital arteries at their origins and displacing the external carotid artery anteriorly (guarding against injury to the glossopharyngeal nerve).

2. Blood vessels

INTERNAL CAROTID ARTERY-47:68

In completing its exposure the base of the styloid process may be divided (with a bone forceps) and the styloid process together with the attached muscles reflected downward and anteriorly. The correlation of the structures at the base of the cranium with the structures previously exposed in the floor of the cranium may be facilitated by removing the calvarium (guarding, however, against drying of the cranial floor).

In demonstrating the superior portion of the cervical part of the internal carotid artery, the pharyngeal rami of the vagus nerve should first be secured and the following four nerves identified in the interval between the internal jugular vein, namely, the glossopharyngeal, vagus, accessory and hypoglossal nerves.

ASCENDING PHARYNGEAL ARTERY^{XX}-47:4

ASCENDING PALATINE ARTERY^{XX}-47:14

TONSILLAR RAMUS OF THE EXTERNAL MAXILLARY ARTERY^{XX}-47:15

INTERNAL JUGULAR VEIN-52:69

SUPERIOR BULB OF THE JUGULAR VEIN-52:70

LINGUAL VEIN-53:6

(SUPERIOR THYROID VEINS)-53:10

COMMON FACIAL VEIN-53:69

By slitting open the inferior part of the internal jugular vein the valve situated near the termination of the vein may be demonstrated.

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3. Nerves

GLOSSOPHARYNGEAL NERVE-68:8

LINGUAL RAMP^{xx}-68:21 Their origin only.TONSILLAR RAMI^{xx}-68:20STYLOPHARYNGEAL RAMUS^{xx}-68:19PHARYNGEAL RAMI^{xx}-68:18

SUPERIOR GANGLION-68:9

PETROUS GANGLION-68:10

TYMPANIC NERVE-68:11

The following nerve in the middle cranial fossa
is in relationship with the tympanic nerve:

LESSER SUPERFICIAL PETROSAL NERVE-67:37

VAGUS NERVE-68:22

GANGLION JUGULARE-68:23

GANGLION NODOSUM-68:24

The following rami cannot be satisfactorily demonstrated in
an ordinary dissection.

MENINGEAL RAMUS^{xx}-68:25AURICULAR RAMUS^{xx}-68:26ANASTOMOTIC RAMUS WITH THE GLOSSOPHARYNGEAL NERVE^{xx}-68:27

Review the following rami:

PHARYNGEAL RAMI-68:28

SUPERIOR LARYNGEAL NERVE AND ITS RAMI-68:30-33

SUPERIOR CARDIAC RAMI-68:34

(DEPRESSOR NERVE)-68:35

RECURRENT NERVE-68:36

ACCESSORY NERVE-68:57

INTERNAL RAMUS^{xx}-68:58

EXTERNAL RAMUS-68:59

HYPOGLOSSAL NERVE-68:60

The demonstration of its exit from the hypoglossal canal is
facilitated by dividing the internal jugular vein 5 cm. below
the base of the skull and reflecting it upward.

The following rami have already been exposed in preceding
dissections:

RAMUS DESCENDENS-68:61

ANSA HYPOGLOSSI-68:62

THYREOHYOID RAMUS-68:63

LINGUAL RAMI-68:64

4. Sympathetic trunk

CERVICAL PART OF THE SYMPATHETIC TRUNK-71:34

SUPERIOR CERVICAL GANGLION-71:35

JUGULAR NERVE^{xx}-71:36INTERNAL CAROTID NERVE^{xx}-71:37INTERNAL CAROTID PLEXUS^{xx}-71:38EXTERNAL CAROTID NERVE^{xx}-71:45EXTERNAL CAROTID PLEXUS^{xx}-71:46LARYNGOPHARYNGEAL RAMP^{xx}-71:57

SUPERIOR CARDIAC NERVE-71:59

MIDDLE CERVICAL GANGLION-71:60

INFERIOR CERVICAL GANGLION-71:62

The remaining rami and plexuses of the cervical part of the
sympathetic system are indicated in -71:47-54, 56, 58, 65-68.

RECTUS CAPITIS LATERALIS MUSCLE^{xx}-24:2

10/10/10

Dear Sir,
I have the pleasure to acknowledge the receipt of your letter of the 10th inst. in relation to the above matter.

The information provided to me by your office has been reviewed and it is noted that the same is in accordance with the records held by this office.

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Yours faithfully,
[Signature]

IX. Structures in relation to the cervical part of the vertebral column and the posterior part of the base of the skull

The head and neck may be divided into anterior and posterior parts by: a) cutting the nerves and vessels of the neck at the level of the first rib and forcibly displacing these structures together with the oesophagus and trachea anteriorly, away from the cervical vertebrae and exposing the periosteum investing the base of the skull between the pharynx and prevertebral muscles; b) making a transverse incision through this thick periosteum and exposing the pars basilaris of the occipital bone; c) resting the floor of the cranium upon the end of a wooden block and with a chisel and mallet dividing the pars basilaris along the line of the preceding incision (directing the chisel as nearly as possible at right angles to the plane of the bone); d) making two saw-cuts through the skull, one on each side, beginning at a point 2 cm. posterior to the mastoid process and extending obliquely anteromedially to a point immediately posterior to the jugular foramen; e) with a chisel completing the division of the base of the skull by an incision on each side uniting the end of the preceding chisel-cut (c) with the adjacent end of the saw-cut (the incision in each case passing medial and posterior to the jugular foramen); f) dividing any remaining intervening soft parts and completing the separation of the anterior and posterior parts of the head and neck. The hypoglossal nerve would be divided close to the base of the skull and superior to the ganglion nodosum of the vagus nerve, but all other cerebral nerves should remain intact and be carried away with the anterior part of the skull.

1. Muscles, nerves and blood vessels

RECTUS CAPITIS LATERALIS MUSCLE^{XX}-24:2 Previously listed in Section X:4.

RECTUS CAPITIS ANTERIOR MUSCLE^{XX}-24:65

LONGUS CAPITIS MUSCLE^{XX}-24:64

LONGUS COLLI MUSCLE^{XX}-24:63

ANTERIOR, MIDDLE AND POSTERIOR SCALENE MUSCLES-24:66-68 Their attachments only.

ANTERIOR AND POSTERIOR INTERTRANSVERSE MUSCLES^{XX}-23:62, 63

CERVICAL NERVES, I-VIII-69:1

Exposed by removing the prevertebral and scalene muscles.

ANTERIOR RAMI-69:8

POSTERIOR RAMI-69:2

VERTEBRAL ARTERY-48:21

Exposed by removing the intertransverse muscles, the rectus capitis lateralis, the obliquus capitis superior and the obliquus capitis inferior muscles, and with a bone forceps cutting away the anterior tubercles and costal portions of the transverse processes of the third to sixth cervical vertebrae.

SPINAL RAMP^{XX}-48:22

VERTEBRAL VEIN-52:63

2. Articulations of the cervical vertebrae III-VII

INTERVERTEBRAL FIBROCARILLAGES-18:37

FIBROUS RING-18:38

NUCLEUS PULPOSUS-18:38

LIGAMENTA FLAVA-18:40

ARTICULAR CAPSULES-18:41

INTERTRANSVERSE LIGAMENTS^X-18:42 Not well developed in the neck.
 INTERSPINOUS LIGAMENTS-18:43
 LIGAMENTUM NUCHAE-18:45
 ANTERIOR LONGITUDINAL LIGAMENT-18:46
 POSTERIOR LONGITUDINAL LIGAMENT-18:47

3. Articulations of the epistropheus, atlas and occipital bone

ATLANTOOCCIPITAL ARTICULATION-19:1
 ARTICULAR CAPSULE-19:2
 ANTERIOR ATLANTOOCCIPITAL MEMBRANE-19:3
 POSTERIOR ATLANTOOCCIPITAL MEMBRANE-19:4

ATLANTOEPISTROTHEAL ARTICULATION-19:5

ARTICULAR CAPSULE-19:6
 TECTORIAL MEMBRANE-19:11

Demonstrated by removing (with a bone forceps) the posterior arches of the atlas and epistropheus, making a saw-cut on each side of the occipital bone extending from just posterior to the jugular process and occipital condyle to the foramen magnum, detaching the squamous portion of the occipital bone and removing the exposed portion of the dura mater.

CRUCIATE LIGAMENT OF ATLAS-19:10

Exposed by detaching the tectorial membrane from the epistropheus and reflecting it upward.

TRANSVERSE LIGAMENT OF THE ATLAS-19:9

ALAR LIGAMENTS-19:7

Demonstrated by detaching the vertical part of the cruciate, ligament at its superior attachment to the occipital bone and reflecting it downward.

APICAL LIGAMENT OF THE DENS-19:8

4. Cervical portion of the vertebral canal and spinal cord

The contents of the cervical portion of the vertebral canal may be exposed by cutting away all the muscles still remaining attached to the spinous processes and arches of the cervical vertebrae and removing the laminae of the vertebral arches. For the meninges and related structures, see Thorax, V:4.

CERVICAL NERVES-69:1

ANTERIOR ROOTS-68:67

POSTERIOR ROOTS-68:68

SPINAL GANGLIA-68:69

ANTERIOR RAMI-68:70

POSTERIOR RAMI-68:71

SPINAL RAMI OF THE VERTEBRAL ARTERY-48:22

POSTERIOR SPINAL ARTERY-48:23

ANTERIOR SPINAL ARTERY-48:24

CERVICAL PART OF SPINAL CORD-58:21

CERVICAL ENLARGEMENT-58:22

For surface anatomy and internal structure of the Spinal cord see Thorax, V:5.

X. Remaining structures in the anterior part of the head and neck

See Section IX for division of the head and neck into anterior and posterior parts.

1. Pharynx-32:29, 4:22a. Muscles and fascia of the pharynx

BUCCOPHARYNGEAL FASCIA-34:43

PTERYGOMANDIBULAR RAPHE-32:52

TUNICA MUSCULARIS OF THE PHARYNX-32:50

CONSTRICTOR PHARYNGEUS INFERIOR MUSCLE-32:62-64

CONSTRICTOR PHARYNGEUS MEDIUS MUSCLE-32:59-61

CONSTRICTOR PHARYNGEUS SUPERIOR-32:53-57

Exposed by dividing the pterygoideus internus muscle transversely at its middle and reflecting the two ends toward their origin and insertion, guarding against cutting the tensor veli palatini muscle.

FASCIA PHARYNGOBASILARIS-32:44

b. Cavity of the pharynx-32:30

Exposed by making the following incisions: a) longitudinally in the middle line throughout the entire extent of the posterior wall of the pharynx; b) from the superior extremity of the preceding incision, transversely through the fascia pharyngobasilaris, close to the base of the cranium and extending laterally as far as the cartilage of the Eustachian tube.

The following structures may be identified by inspection:

PARS NASALIS-32:22

FORNIX PHARYNGIS-32:31

PHARYNGEAL OPENING OF THE EUSTACHIAN TUBE-32:35

ANTERIOR LIP-32:36

POSTERIOR LIP-32:37

TORUS TUBARIUS-32:38

SALPINGOPHARYNGEAL FOLD-32:39

PHARYNGEAL RECESS-32:40

PHARYNGEAL TONSIL-32:47

TONSILLAR CRYPTS-32:48

(Pharyngeal bursa)-32:41

SOFT PALATE-30:41

UVULA-32:13

PARS ORALIS-32:33

GLOSSOPALATINE ARCH-32:15

PHARYNGPALATINE ARCH-32:16

LATERAL GLOSSOEPICLOTIC FOLD-37:27

MEDIAN GLOSSOEPICLOTIC FOLD-37:26

EPICLOTIC VALLECULA-37:12

PARS LARYNGIS-32:34

ARYEPICLOTIC FOLD-37:28

OPENING INTO THE LARYNX-37:13

PERIFORM RECESS-32:42

FOLD OF THE LARYNGEAL NERVE-37:29

Looking anteriorly from the nasal part of the pharynx the following are visible in relation to the posterior part of the nasal cavity:

NASAL SEPTUM-35:39

NASOPHARYNGEAL MEATUS-35:59

INFERIOR NASAL MEATUS-35:57

MIDDLE NASAL MEATUS-35:55

INFERIOR NASAL CONCHA-35:48

MIDDLE NASAL CONCHA-35:47

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2. Mouth and fauces

To facilitate the demonstration of the following structures the anterior part of the head and neck may be divided into two lateral halves by making the following incisions: a) with a knife dividing the uvula and soft palate in the median sagittal plane; b) in a similar manner dividing the cartilaginous part of the nose as far as the nasal bone as nearly as possible in the mid-sagittal plane, (before making this incision it should be ascertained whether the nasal septum deviates to either the right or left of the mid-plane, and if so, making the cut through the cartilage close to concave side of the septum and thus guarding against cutting the septum itself); c) with a saw cutting through the floor of the anterior part of the skull, beginning posteriorly and sawing forward making the cut pass through the hard palate and root of the nose just lateral to the nasal septum and, in line with preceding incision, through the cartilaginous part of the nose; d) with a knife dividing the tongue and soft structure in the floor of the mouth, the pharynx, larynx, trachea and any other remaining soft structure in the median sagittal plane; e) completing the division of sawing through the anterior part of the mandible in the same plane.

a. General characteristics of the oral cavity

CHEEK-30:29

FAT BODY OF THE CHEEK-30:30

VESTIBULE OF THE MOUTH-30:31

MOUTH CAVITY PROPER-30:32

ORAL FISSURE-30:33

LIPS-30:34-36

LABIAL COMMISSURE-30:37

ANGLES OF THE MOUTH-30:38

PALATE-30:39

HARD PALATE-30:40

SOFT PALATE-30:41

RAPHE OF THE PALATE-30:42

b. Mucous membrane of the mouth-30:43

FRENULUM OF THE UPPER AND LOWER LIPS-30:44, 45

GUM-30:46

SUBLINGUAL CARUNCLE-30:47

SUBLINGUAL FOLD-30:48

TRANSVERSE PALATINE FOLDS-30:49

INCISOR PAPILLA-30:50

c. Glands of the mouth-31:1

Only the openings of the ducts of the following glands can be demonstrated at this stage of the dissection.

SUBLINGUAL GLAND-31:8

MAJOR AND MINOR DUCTS-31:9, 10

SUBMAXILLARY GLAND-31:11

SUBMAXILLARY DUCT-31:12

PAROTID GLAND-31:13-15

PAROTID DUCT-31:16

The following structures are usually difficult to demonstrate in an ordinary dissection:

LABIAL GLANDS-31:2

BUCCAL GLANDS-31:3

MOLAR GLANDS-31:4

PALATINE GLANDS-31:3
 LINGUAL GLANDS-31:6
 ANTERIOR LINGUAL GLAND-31:7

d. Teeth-31:18

SUPERIOR AND INFERIOR DENTAL ARCHES-31:45, 46
 INCISOR TEETH-31:47
 CANINE TEETH-31:48
 PREMOLAR TEETH-31:49
 MOLAR TEETH-31:50
 DENS SEROTINUS-31:51
 PERMANENT AND DECIDUOUS TEETH-31:52, 53

e. Tongue-31:54

DORSUM OF THE TONGUE-31:55
 ROOT OF THE TONGUE-31:56
 BODY OF THE TONGUE-31:57
 INFERIOR SURFACE-31:58, 59
 LATERAL MARGIN-31:60
 APEX-31:61
 MUCOUS MEMBRANE-31:62
 For the muscles and papillae of the tongue see X:7.

f. Fauces-32:10

Isthmus of the fauces-32:11
 Velum palatinum-32:12
 Uvula-32:13
 Palatine arches-32:12
 GLOSSOPALATINE ARCHES-32:15
 PHARYNGOPALATINE ARCHES-32:16
 SALPINGOPALATINE FOLD^{xx}-32:17
 PALATINE TONSIL-32:18
 TONSILLAR CRYPTS-32:19
 TONSILLAR SINUS-32:20
 PLICA TRIANGULARIS-32:21
 SUPRATONSILLAR FOSSA-32:22

3. Soft palate and related structures

A satisfactory dissection of the soft palate is made with difficulty in the ordinary cadave material; in demonstrating its structures the soft palate should be made tense by means of a hook and the mucous membrane removed from its oral and pharyngeal surfaces and from the surface of the glossopalatine and pharyngopalatine arches.

a. Muscles

GLOSSOPALATINE MUSCLE^{xx}-32:27
 PHARYNGOPALATINE MUSCLE^{xx}-32:33
 SALPINGOPHARYNGEUS MUSCLE^{xx}-32:58
 UVULAE MUSCLE^{xx}-32:26
 LEVATOR VELI PALATINE MUSCLE^{xx}-32:24

Exposed by removing the wall of the pharynx between the auditory tube superiorly and the upper margin of the superior pharyngeal constrictor muscle inferiorly.

Tensor Veli Palatini Muscle-32:25

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b. Arteries

ASCENDING PALATINE ARTERY^{XX}-47:14
 PHARYNGEAL RAMI OF THE ASCENDING PHARYNGEAL ARTERY^{XX}-47:6
 DESCENDING PALATINE FROM THE INTERNAL MAXILLARY ARTERY^{XX}-47:62

c. Nerves

PHARYNGEAL RAMI OF THE VAGUS NERVE^{XX}-68:28
 Component fibres of these rami are derivatives of the accessory nerve.
 NERVE OF THE TENSOR VELLI PALATINI^{XX}-67:38
 POSTERIOR PALATINE NERVE^{XX}-67:5
 MIDDLE PALATINE NERVE^{XX}-67:4

4. Auditory tube-78:11

OSSEOUS PART OF THE AUDITORY TUBE-78:13
 CARTILAGINOUS PART OF THE AUDITORY TUBE-78:16
 CARTILAGE OF THE AUDITORY TUBE-78:17
 MEDIAL CARTILAGINOUS LAMINA-78:18
 LATERAL CARTILAGINOUS LAMINA-78:19
 MEMBRANOUS LAMINA-78:20
 TUNICA MUCOSA-78:21-23
 PHARYNGEAL OPENING OF THE AUDITORY TUBE-78:24

5. Nasal cavitya. Nasal septum-35:39

CARTILAGINOUS SEPTUM-35:40
 Exposed by removing the mucous membrane from the septum.
 MEMBRANOUS SEPTUM-35:41
 The following structures may be demonstrated by carefully removing the cartilage and thin bony part of the septum (a small piece at a time), but retaining intact the mucous membrane of the opposite side.
 OLFACTORY NERVES-66:3
 MEDIAL SUPERIOR POSTERIOR NASAL RAMI-66:62
 NASOPALATINE NERVE-66:63
 MEDIAL NASAL RAMI OF THE INTERNAL BRANCH OF THE ANTERIOR ETHMOIDAL NERVE-66:31
 POSTERIOR NASAL ARTERIES OF THE SEPTUM-47:67
 ANTERIOR AND POSTERIOR ETHMOIDAL ARTERIES-48:6, 7
 Difficult to demonstrate in ordinary material.

b. Cavity and lateral walls of the nose

NARES-35:37
 CHOANAE-35:38
 VESTIBULE OF THE NOSE-35:42
 VIBRISSAE-79:34
 LIMEN NASI-35:43
 OLFACTORY SULCUS-35:44
 SUPERIOR NASAL CONCHA-35:46
 MIDDLE NASAL CONCHA-35:47
 INFERIOR NASAL CONCHA-35:48
 (CONCHA SUPREMA)-35:45
 MUCOUS MEMBRANE-35:49
 CAVERNOUS PLEXUS OF THE CONCHA-35:50
 AGGER NASI-35:51
 SPHENOTHMOIDAL RECESS-35:52
 MEATUS OF THE NOSE-35:53

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SUPERIOR MEATUS-35:54
 MIDDLE MEATUS-35:55
 ATRIUM OF THE MIDDLE MEATUS-35:56
 INFERIOR MEATUS-35:57
 COMMON MEATUS-35:58
 NASOPHARYNGEAL MEATUS-35:59
 RESPIRATORY REGION-35:60
 OLFATORY REGION-35:61
 OLFATORY GLANDS-35:62
 NASAL GLANDS-35:71
 ETHMOIDAL INFUNDIBULUM-35:68
 Exposed by forcing the middle concha upwards,
 HIATUS SEMILUNARIS-35:70
 BULLA ETHMOIDALIS-35:68
 NASOLACRIMAL DUCT-75:54 Its inferior opening only.
 ETHMOIDAL CELLS-35:67 Only their openings are exposed.

c. Paranasal sinuses-35:63

MAXILLARY SINUS-35:64
 Its cavity is exposed by sawing upwards through the base of the
 zygomatic process of the maxilla and removing its lateral wall.
 SPHENOIDAL SINUS-35:65
 FRONTAL SINUS-35:66

d. Nerves and vessels in the lateral wall of the nasal cavity

OLFATORY NERVES-66:3
 LATERAL NASAL RAMI OF THE INTERNAL BRANCH OF THE ANTERIOR
 ETHMOIDAL NERVE-66:30
 Branches from the sphenopalatine ganglion:
 LATERAL SUPERIOR POSTERIOR NASAL RAMI-66:61
 Difficult to demonstrate in an ordinary dissection.
 [LATERAL] INFERIOR POSTERIOR NASAL RAMI-67:1
 SPHENOPALATINE ARTERY-47:66
 The descending palatine branch of the internal maxillary artery-47:
 62, and the anterior and posterior ethmoidal arteries-48:6, 7, also
 contribute small twigs to the nasal muco-periosteum.

e. Nasal cartilages-36:6

LATERAL NASAL CARTILAGE-36:9
 CARTILAGE OF THE NASAL SEPTUM-36:7 See also X:5a.
 GREATER ALAR CARTILAGES-36:10
 LATERAL CRUS-36:12
 MEDIAL CRUS-31:12
 LESSER ALAR CARTILAGES-36:13

6. Larynx-36:10

a. Cavity of the larynx-37:11

The laryngeal cartilages constituting the ground plan of the larynx
 are listed under subhead 6d.
 APERTURE OF THE LARYNX-37:13
 ARYEPIGLOTTIC FOLD-37:20
 CUNEIFORM TUBERCLE-36:74
 CORNICULATE TUBERCLE-36:75
 INTERARYTENOID NOTCH-37:35
 MEDIAN GLOSSOEPIGLOTTIC FOLD-37:26
 LATERAL GLOSSOEPIGLOTTIC FOLD-37:27

EPIGLOTTIC VALLECULA-37:12
 VESTIBULE OF THE LARYNX-37:14
 RIMA VESTIBULI-37:15
 VENTRICULAR FOLDS-37:30
 SUPERIOR APERTURE OF THE GLOTTIS-37:34
 LARYNGEAL VENTRICLE-37:21
 APPENDIX OF THE LARYNGEAL VENTRICLE-37:22
 VOCAL FOLD-37:31
 MACULA FLAVA-37:32
 The vocal and ventricular folds subdivide the laryngeal cavity into three subdivisions; a superior, or the vestibule, a middle subdivision corresponding to the ventricles, and an inferior subdivision inferior to the level of the vocal cords.
 VOCAL LIP-37:16
 GLOTTIS-37:17
 RIMA GLOTTIDIS-37:18
 INTERMEMBRANOUS PART-37:19
 INTERCARTILAGINOUS PART-37:20
 INFERIOR APERTURE OF THE GLOTTIS-37:33
 LARYNGEAL MUCCOUS MEMBRANE-37:23
 LARYNGEAL GLANDS-37:36-39
 LYMPHATIC NODULES OF THE LARYNX-37:40

b. Laryngeal muscles, hyothreoid and elastic membranes

Having examined the relations of the thyreoid gland, the following structures are exposed by removing this organ together with the omohyoid, sternohyoid, sternothyreoid, thyreohyoid and inferior pharyngeal constrictor muscles, guarding against injury to the internal and external rami of the superior laryngeal nerve, the inferior laryngeal nerve, and the superior and inferior laryngeal arteries.

HYOTHYREOID MEMBRANE-36:34
 MIDDLE HYOTHYREOID LIGAMENT-36:33
 LATERAL HYOTHYREOID LIGAMENT-36:31
 TRITICEOUS CARTILAGE-36:32
 CRICOTHYREOID MUSCLE-36:78
 STRAIGHT PART-36:79
 OBLIQUE PART-37:1
 POSTERIOR CRICOARYTAENOID MUSCLE-37:2

Exposed by removing the tunica mucosa from the posterior aspect of the cricoid and arytaenoid cartilages, retaining intact, however, the superior and laryngeal artery and nerve.

OBLIQUE ARYTAENOID MUSCLE-37:9
 ARYEPIGLOTTIC MUSCLE-36:77
 TRANSVERSE ARYTAENOID MUSCLE-37:10

It is preferable to demonstrate the following muscles and the elastic membrane in only one half of the larynx, reserving the other half for the demonstration of nerves and vessels.

LATERAL CRICOARYTAENOID MUSCLE-37:4
 Exposed by removing the cricothyreoid muscle, making an incision through the lamina of the thyreoid cartilage parallel to and a little to the right of the anterior median line, dividing the right lateral hyothyreoid ligament, disarticulating the right inferior cornu of the thyreoid cartilage and completing the removal of the lamina.

THYREOARYTAENOID MUSCLE-37:8
 VOCAL MUSCLE-37:6

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Exposed by carefully removing the lateral cricoarytaenoid muscle.
 THYREOPIGLOTTIC MUSCLE-37:7
 VENTRICULAR MUSCLE-37:5
 Difficult to demonstrate in an ordinary dissection.
 ELASTIC MEMBRANE OF THE LARYNX-37:24
 Exposed by removing the vocal muscle.
 ELASTIC CONE-37:25
 VOCAL LIGAMENT-36:63
 (SESAMOID CARTILAGE)-36:64
 VENTRICULAR LIGAMENT-36:62

c. Laryngeal nerves and vessels

The following structures may be demonstrated in the remaining half of the larynx:

INTERNAL RAMUS OF THE SUPERIOR LARYNGEAL NERVE-68:32
 Its position in the piriform sinus may be determined by producing a traction on the nerve external to the thyroepiglottic membrane and demonstrating the fold of the laryngeal nerve-37:29
 ANASTOMOTIC RAMUS WITH THE INFERIOR LARYNGEAL NERVE-68:33
 INFERIOR LARYNGEAL NERVE-68:40
 ANTERIOR RAMUS-68:41
 POSTERIOR RAMUS-68:42
 SUPERIOR LARYNGEAL ARTERY-46:64
 INFERIOR LARYNGEAL ARTERY-48:50

d. Laryngeal cartilages and ligaments

EPIGLOTTIS-36:67
 PETICLUS EPIGLOTTIDIS-36:68
 EPIGLOTTIC TUBERCLE-36:69
 EPIGLOTTIC CARTILAGE-36:70
 THYREOPIGLOTTIC LIGAMENT-36:71
 HYOPIGLOTTIC LIGAMENT-36:72
 THYREOID CARTILAGE-36:21
 RIGHT AND LEFT LAMINA-36:22
 PROMINENTIA LARYNGEA-36:16
 SUPERIOR THYREOID INCISURE-36:23
 INFERIOR THYREOID INCISURE-36:24
 SUPERIOR THYREOID TUBERCLE-36:25
 INFERIOR THYREOID TUBERCLE-36:26
 (OBLIQUE LINE)-36:27
 SUPERIOR CORNU-36:28
 INFERIOR CORNU-36:29
 (THYREOID FORAMEN)-36:30
 CRICOTHYREOID ARTICULATION-36:40
 ARTICULAR CAPSULE-36:41
 CERATOCRICOID LIGAMENTS^{xx}-36:42-44
 CRICOID CARTILAGE-36:35

The exposure of the cricoid cartilage is completed by dividing the ligaments connecting the thyreoid and cricoid cartilages and removing the thyreoid cartilage.
 ARCH-36:36
 LAMINA-36:37
 ARYTAENOID ARTICULAR SURFACE-36:38
 THYREOID ARTICULAR SURFACE-36:39
 CRICOTRACHEAL LIGAMENT-36:46
 CORNICULATE CARTILAGE-36:57
 ARYCORNICULATE SYNCHONDROSIS-36:58

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CORNICULOPHARYNGEAL LIGAMENT^{xx}-36:61
 CRICOPHARYNGEAL LIGAMENT^{xx}-36:60
 ARYTAENOID CARTILAGE-36:47
 APEX-36:54
 BASE-36:49
 ARTICULAR SURFACE-36:48
 CRISTA ARCUATA^{xx}-36:50
 COLLICULUS^{xx}-36:51
 FOVEA OBLONGA^{xx}-36:52
 FOVEA TRIANGULARIS^{xx}-36:53
 VOCAL PROCESS-36:55
 MUSCULAR PROCESS-36:56
 CUNEIFORM CARTILAGE-36:73
 CRICOARYTAENOID ARTICULATION-36:59
 ARTICULAR CAPSULE-36:65
 POSTERIOR CRICOARYTAENOID LIGAMENT^{xx}-36:66

7. Tongue-31:54

a. General characteristics and surface anatomy

DORUM OF TONGUE-31:55
 ROOT OF TONGUE-31:56
 BODY OF TONGUE-31:57
 INFERIOR SURFACE-31:58
 FIMBRIATED FOLD-31:59
 LATERAL MARGIN-31:60
 APEX OF TONGUE-31:61
 MUCCOUS MEMBRANE OR TONGUE-31:62
 FRENULUM OF TONGUE-31:63
 LINGUAL PAPILLAE-31:64
 FILIFORM PAPILLAE-31:65
 CONICAL PAPILLAE-31:66
 FUNGIFORM PAPILLAE-31:67
 LENTICULAR PAPILLAE-31:68
 VALLATE PAPILLAE-31:69
 FOLIATE PAPILLAE-31:70
 MEDIAL SULCUS-31:71
 TERMINAL SULCUS-31:72
 FORAMEN CAECUM-31:73
 (LINGUAL DUCT)-31:74
 THYREOGLOSSAL DUCT-31:75
 LINGUAL TONSIL-31:76
 LINGUAL FOLLICLES-31:77

b. Muscles of the tongue-32:1

Preferably demonstrated in one half of the tongue only retaining the other half for the demonstration of nerves and vessels.

GENIOGLOSSUS MUSCLE-32:2
 HYOGLOSSUS MUSCLE-32:3
 CHONDROGLOSSUS MUSCLE-32:4
 STYLOGLOSSUS MUSCLE-32:5
 The four preceding muscles may be characterized as extrinsic and the following three muscles as intrinsic muscles of the tongue:
 LONGITUDINALIS SUPERIOR MUSCLE^{xx}-32:6
 LONGITUDINALIS INFERIOR MUSCLE^{xx}-32:7
 TRANSVERSES LINGVAE MUSCLE^{xx}-32:8
 VERTICALIS LINGVAE MUSCLE^{xx}-32:9

1. The first part of the book is devoted to a general introduction to the subject of the history of the world. It is divided into two main sections: the first deals with the pre-historic period, and the second with the historical period. The pre-historic period is further divided into three sub-sections: the Stone Age, the Bronze Age, and the Iron Age. The historical period is divided into four sub-sections: the Middle Ages, the Renaissance, the Enlightenment, and the Modern Age.

Introduction

The purpose of this book is to provide a comprehensive and accessible account of the history of the world. It is written for students of history and for anyone who is interested in the past. The book is divided into two main parts: the first part deals with the pre-historic period, and the second part with the historical period. The pre-historic period is further divided into three sub-sections: the Stone Age, the Bronze Age, and the Iron Age. The historical period is divided into four sub-sections: the Middle Ages, the Renaissance, the Enlightenment, and the Modern Age.

1. The Pre-historic Period

The pre-historic period is the longest and least known period of human history. It is divided into three main periods: the Stone Age, the Bronze Age, and the Iron Age. The Stone Age is the earliest period, and is further divided into the Lower Stone Age and the Upper Stone Age. The Bronze Age is the middle period, and the Iron Age is the latest period. The pre-historic period ends with the beginning of the historical period, which is marked by the invention of writing.

SEPTUM OF TONGUE-31:78c. Nerves and vessels of the tongue

LINGUAL RAMI OF THE GLOSSOPHARYNGEAL NERVE-58:21
 LINGUAL NERVE-57:23
 SUBLINGUAL NERVE-57:26
 LINGUAL RAMI-67:27
 HYPOGLOSSAL NERVE-68:60
 LINGUAL RAMI-68:64
 LINGUAL ARTERY-47:8
 DORSAL RAMI OF TONGUE-47:11
 DEEP ARTERY OF TONGUE-47:12

8. Structures in the middle cranial fossa

Incisions for removal of the dura mater; a) having secured the cut ends of the oculomotor, trochlear and trigeminal nerves as they pierce the dura an incision is made through the dura just lateral to these nerves from the anterior clinoid process to the apex of the petrous portion of the temporal bone (the cut should be made no deeper than the thickness of the dura), and then extended from the apex of the petrous bone backward and laterally along the superior petrosal sinus to the sigmoid sulcus; b) a second incision is made through the dura from the clinoid process anterolaterally along the posterior margin of the small wing of the sphenoid bone; d) the dura may then be reflected lateralward, carefully disengaging it from any underlying nerves or other structures which may be attached to it.

CAVERNOUS SINUS-53:24
 SUPERIOR OPHTHALMIC VEIN-53:54
 INFERIOR OPHTHALMIC VEIN-53:68
 SPHENOPARIETAL SINUS-53:28
 TRIGEMINAL NERVE-66:11
 PORTIO MAJOR-66:12 Sensory root.
 PORTIO MINOR-66:14 Motor root.
 SEMILUNAR GANGLION-66:13
 MANDIBULAR NERVE-67:6 Origin and foramen of exit only.
 An accessory meningeal artery-(47:51) is sometimes associated with it in its foramen of exit.
 MAXILLARY NERVE-66:38 Origin and foramen of exit.
 MENINGEAL RAMUS-66:39
 OPHTHALMIC NERVE-66:15
 LACRIMAL NERVE-66:17 Its origin only.
 NASOCILIARY NERVE-66:23 Its origin only.
 FRONTAL NERVE-66:19 Its origin only.

The following three nerves are listed with reference to the cavernous sinus only:

OCULOMOTOR NERVE-66:5
 TROCHLEAR NERVE-66:9
 ABDUCENT NERVE-67:46
 CAVERNOUS PLEXUS OF THE SYMPATHETIC-71:39 Difficult to demonstrate.
 INTERNAL CAROTID ARTERY-47:68
 OPHTHALMIC ARTERY-47:70 Its origin only.
 INTERNAL CAROTID PLEXUS OF THE SYMPATHETIC-71:38 Difficult to demonstrate in an ordinary dissection.
 GREATER SUPERFICIAL PETROSAL NERVE-66:59
 LESSER SUPERFICIAL PETROSAL NERVE-67:37
 MIDDLE MENINGEAL ARTERY-47:50

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SUPERFICIAL PETROSAL RAMUS^{XX}-47:52
(ACCESSORY MENINGEAL RAMUS)-47:51

9. Eyelids and lacrimal apparatus

For the surface anatomy of the eye see Section V:1.

a. Eyelids-75:11

In demonstrating the following structures the palpebral part of the orbicularis oculi muscle is removed, guarding against injury to underlying nerves and vessels.

ORBITAL SEPTUM-75:5

SUPERIOR TARSUS-75:20

INFERIOR TARSUS-75:24

TARSAL GLANDS-75:27

LATERAL PALPEBRAL RAPHE-75:26

MEDIAL PALPEBRAL LIGAMENT-75:25

LEVATOR PALPEBRAE SUPERIORIS MUSCLE-75:3 Its tendon of insertion only.

For nerves and vessels of the eyelids see L:2a and V:4.

b. Lacrimal apparatus-75:41

SUPERIOR LACRIMAL GLAND-75:42

Should be identified with a minimum dissection.

Exposed by dividing the palpebral fascia at the upper and lateral angle of the orbit.

INFERIOR LACRIMAL GLAND-75:43

(ACCESSORY LACRIMAL GLAND)-75:44

EXCRETORY DUCTULES-75:45

LACRIMAL DUCT-75:49

Exposed by reflecting the medial palpebral ligament.

AMPULLA OF THE LACRIMAL DUCT-75:51

LACRIMAL SAC-75:52

FORNIX OF THE LACRIMAL SAC-75:53

NASOLACRIMAL DUCT-75:54

The following muscles are exposed by dividing the eyelids through the middle by a sagittal section and removing the conjunctiva at the medial angle of the eye.

TARSALIS SUPERIOR MUSCLE^{XX}-75:29

TARSALIS INFERIOR MUSCLE^{XX}-75:30

10. Structures in relation to the orbit

a. Structures in the superior part of the orbit and fascia of the eyeball

Exposed by removing (with a bone forceps, saw and chisel) the thin roof superior wall of the orbit (12:67), the thick cranial wall above the orbital opening (12:64), and the superior wall of the superior orbital fissure (12:71), retaining intact, however, the superorbital margin (12:65) of the orbital opening and a ring of bone around the optic foramen (cutting away the anterior clinoid process will also facilitate the subsequent dissection), dividing the periosteum longitudinally midway between the medial and lateral walls of the orbit and also transversely close to the anterior margin of the superior orbital wall, and reflecting the two periosteal flaps laterally and medially.

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

RESEARCH REPORT NO. 10

BY [Name]

Submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy

under the supervision of [Supervisor Name]

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Summary of the research findings and conclusions.

FRONTAL NERVE-65:19

SUPRAORBITAL NERVE-66:20

FRONTAL RAMUS-66:21

SUPRATROCHLEAR NERVE-66:22

Attention has already been directed to the peripheral distribution of these nerves, I:2a and V:4.

CORPUS ADIPOSUM ORBITAE-75:9

To be removed gradually during the ensuing dissection.

TROCHLEAR NERVE-66:9

LACRIMAL NERVE-66:17

LACRIMAL GLANDS-76:42-45 See also 9b.

LEVATOR PALPEBRAE SUPERIORIS MUSCLE-75:3

FASCIA OF EYEBALL-75:7

Exposed by dividing the frontal nerve and levator palpebrae superioris muscle in the middle of the orbit and reflecting their cut ends.

INTERFASCIAL SPACE-75:8

Its extent may be determined by making an opening through fascia and introducing the handle of a scalpel or a blunt forceps into the opening.

RECTUS SUPERIOR MUSCLE-74:65

OBLIQUUS SUPERIOR MUSCLE-74:71

TROCHLEA-75:1

b. Optic nerve, nasociliary nerve and ciliary ganglion

The following structures are exposed by dividing superior rectus muscle midway between its origin and insertion, reflecting the cut ends (noting the superior division of the oculomotor nerve subjacent to its posterior part), and carefully removing the orbital fat.

OPTIC NERVE-66:4

NASOCILIARY NERVE-66:23

LONG ROOT OF THE CILIARY GANGLION-66:24

LONG CILIARY NERVES-66:25

POSTERIOR ETHMOIDAL NERVE-66:26

ANTERIOR ETHMOIDAL NERVE-66:27

INFRA-TROCHLEAR NERVE-66:33-35

CILIARY GANGLION-66:63

SHORT CILIARY NERVES-66:37

c. Blood vessels of the orbit

OPHTHALMIC ARTERY-47:71

CENTRAL ARTERY OF RETINA-47:72

LACRIMAL ARTERY-47:72

MUSCULAR RAMI-47:74

CILIARY ARTERIES-47:75, 76, 48:1-4

SUPRAORBITAL ARTERY-48:5

ANTERIOR AND POSTERIOR ETHMOIDAL ARTERIES-48:6, 7

MEDIAL PALPEBRAL ARTERIES-48:9-11

FRONTAL ARTERY-48:12

DORSAL ARTERY OF NOSE-48:13

SUPERIOR OPHTHALMIC VEIN-53:54

INFERIOR OPHTHALMIC VEIN-53:68

CENTRAL VEIN OF RETINA-53:63

Tributaries of the ophthalmic veins are indicated in 53:55, 53:64-67

d. Remaining structures of the orbit

RECTUS MEDIALIS MUSCLE-74:67

EXHIBIT NO. 1

APPROVED BY THE BOARD OF LIBRARIANS

ON THE 15th DAY OF

APRIL 1915

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of the Board of Librarians

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RECTUS INFERIOR MUSCLE-74:66

RECTUS LATERALIS MUSCLE-74:68

LACERTUS OF RECTUS LATERALIS MUSCLE-74:69

COMMON TENDINOUS RING OF ZINN-74:70

Exposed by dividing the optic nerve close to the optic foramen and turning the eyeball anteriorly.

OCULOMOTOR NERVE-66:5

SUPERIOR RAMUS-66:6

INFERIOR RAMUS-66:7

SHORT ROOT OF CILIARY GANGLION-66:8

ABDUCENS NERVE-67:46

OBLIQUUS INFERIOR MUSCLE-75:2

Exposed by replacing the eyeball in its normal position, everting the lower eyelid, carefully removing the conjunctiva in the region of the inferior fornix.

ZYGOMATIC NERVE-66:40

11. Structures in the carotid and infraorbital canals, and in the pterygopalatine fossa.

a. Carotid canal-9:41

The contents of the carotid canal may be exposed by removing (with a bone forceps) the inferior wall of the carotid canal, guarding against injury to the auditory tube.

INTERNAL CAROTID ARTERY-47:63

CAROTICOTYMPANIC RAMUS^{XX}-47:69

INTERNAL CAROTID NERVE OF SYMPATHETIC SYSTEM-71:37

INTERNAL CAROTID PLEXUS-71:38

DEEP PETROSAL NERVE-66:60 Its origin only

b. Maxillary nerve and infraorbital canal

The structures in relation to the infraorbital canal and pterygopalatine fossa may be exposed by making the following dissections: a) begin at the cut margin of the skull just above the external acoustic meatus and sawing through the squamous part of the temporal bone and great wing of the sphenoid bone in a plane passing obliquely downward and forward to the medial end of the superior orbital fissure, the saw-cut passing just lateral to the foramen rotundum; b) making a second saw-cut extending from the cut margin of the cranial wall, just above the anterior margin of the great wing of sphenoid, downward into the superior orbital fissure, joining the first saw-cut; c) detaching the wedge of bone included between the two saw-cuts and with a bone forceps removing what remains of the great wing of the sphenoid bone lateral to the foramen rotundum, retaining intact, however, the bony circumference of this aperture; d) and finally with a bone forceps (and chisel if necessary) removing the superior wall of the infraorbital canal.

MAXILLARY NERVE-66:38

ZYGOMATIC NERVE-66:40

SPHENOPALATINE NERVES-66:43

POSTERIOR SUPERIOR ALVEOLAR RAMI-66:45

INFRAORBITAL NERVE-66:46

MIDDLE SUPERIOR ALVEOLAR RAMUS-66:47

ANTERIOR SUPERIOR ALVEOLAR RAMI-66:48

SUPERIOR DENTAL PLEXUS-66:49

This plexus also includes the posterior superior alveolar rami.

SUPERIOR DENTAL RAMI-56:50
 SUPERIOR CINGIVAL RAMI-66:51
 INFRAORBITAL ARTERY-47:60
 ANTERIOR SUPERIOR ALVEOLAR ARTERIES-47:61

c. Sphenopalatine ganglion

The sphenopalatine ganglion may be located by following the lateral superior nasal rami together with the nasopalatine nerve back to the sphenopalatine foramen, and the lateral posterior inferior rami of the anterior palatine nerve back to the pterygopalatine canal, carefully opening the canal and following the palatine nerves upward to the sphenopalatine ganglion which is situated in the pterygopalatine fossa; the exposure of the ganglion may also be facilitated by removing the orbital process of the palatine bone and a portion of the body of the sphenoid bone.

SPHENOPALATINE GANGLION-66:56

NERVE OF THE PTERYGOID CANAL-66:58

This nerve may be exposed by cutting away the sphenoidal process of the palate bone and carefully opening the pterygoid process of the sphenoid bone, a dissection difficult, however, to make.

GREATER SUPERFICIAL PETROSAL NERVE-66:59

DEEP PETROSAL NERVE-66:60

ORBITAL RAMI-66:57

LATERAL SUPERIOR POSTERIOR NASAL RAMI-66:61

MEDIAL SUPERIOR POSTERIOR NASAL RAMI-66:62

NASOPALATINE NERVE-66:63

[LATERAL] INFERIOR POSTERIOR NASAL RAMI-67:1

PALATINE NERVES-67:2

ANTERIOR PALATINE NERVE-67:3

MIDDLE PALATINE NERVE-67:4

POSTERIOR PALATINE NERVE-67:5

d. Internal maxillary artery

The following terminal branches of the internal maxillary artery are in relation to the pterygopalatine fossa with reference to their origin only.

POSTERIOR SUPERIOR ALVEOLAR ARTERY-47:59

INFRAORBITAL ARTERY-47:60

DESCENDING PALATINE ARTERY-47:62

SPHENOPALATINE ARTERY-47:66

12. Auditory apparatus: external and middle ear

It will be observed that the incisions made through the skull in the course of the preceding dissections have resulted in the isolation of a somewhat wedge-shaped segment of the cranium including the greater part of the temporal bone and the organ of hearing. With reference to the three subdivisions of the organ of hearing, some of the structures relative to the external ear have already been listed under Section I:4, and attention directed to the auditory tube of the middle ear under Section X:4.

c. Walls of the tympanic cavity

The tympanic cavity and its several walls may be demonstrated by removing the squamous part of the temporal bone by a horizontal saw-cut made just above the level of the petrous part of the temporal bone and making an opening through the tegmen tympani of the temporal bone (9:12) just lateral to the arcuate eminence (9:13), and about

MEMORANDUM FOR THE RECORD

DATE: 11/15/50

1. On 11/15/50, the following information was received from the [redacted] regarding the [redacted] of the [redacted] in the [redacted] area. The [redacted] is [redacted] and is [redacted] by [redacted]. The [redacted] is [redacted] and is [redacted] by [redacted]. The [redacted] is [redacted] and is [redacted] by [redacted].

2. The [redacted] is [redacted] and is [redacted] by [redacted]. The [redacted] is [redacted] and is [redacted] by [redacted]. The [redacted] is [redacted] and is [redacted] by [redacted].

3. The [redacted] is [redacted] and is [redacted] by [redacted]. The [redacted] is [redacted] and is [redacted] by [redacted]. The [redacted] is [redacted] and is [redacted] by [redacted].

4. The [redacted] is [redacted] and is [redacted] by [redacted]. The [redacted] is [redacted] and is [redacted] by [redacted]. The [redacted] is [redacted] and is [redacted] by [redacted].

5. The [redacted] is [redacted] and is [redacted] by [redacted]. The [redacted] is [redacted] and is [redacted] by [redacted]. The [redacted] is [redacted] and is [redacted] by [redacted].

1 cm. anterior to the superior angle (9:8) of the pyramids of pars petrosa (9:3), and exposing the tympanic antrum of the mastoid wall of the tympanic antrum of the mastoid wall of the tympanic cavity (77:17); this opening may then be carefully enlarged with a bone forceps and the entire roof or tegmental wall of the tympanic cavity removed.

TEGMENTAL WALL-76:69

EPITYMPANIC RECESS-77:1

PARS CUPULARIS-77:2

JUGULAR WALL-77:3

STYLOID PROMINENCE-77:4

MASTOID WALL-77:16

TYMPANIC ANTRUM-77:17

PROMINENCE OF LATERAL SEMICIRCULAR CANAL-77:18

PROMINENCE OF FACIAL CANAL-77:19

PYRAMIDAL EMINENCE-77:20

FOSSA OF INCUS-77:21

POSTERIOR SINUS-77:22

TYMPANIC APERTURE OF CANALICULUS OF THE CHORDA-77:23

CAROTID WALL-77:26

LABYRINTHIC WALL-77:5

FENESTRA VESTIBULI-77:6, 7

PROMONTORY-77:8-10

SINUS OF TYMPANUM-77:11

FENESTRA COCHLAE-77:12-14

PROCESSUS COCHLEARIFORMIS-77:15

MASTOID CELLS-77:24

TYMPANIC CELLS-77:25

MEMBRANOUS WALL-77:27

TYMPANIC MEMBRANE-77:28

PARS FLACCIDA-77:29

PARS TENSA-77:30

LIMBUS MEMBRANAE TYMPANI-77:31

ANTERIOR MALLEOLAR FOLD-77:32

POSTERIOR MALLEOLAR FOLD-77:33

MALLEOLAR PROMINENCE-77:34

MALLEOLAR STRIA-77:35

UMBO MEMBRANE TYMPANI-77:36

FIBROCARILLAGINOUS RING-77:38

Structurally the tympanic membrane consists of several tissue layers-77:37, 77:41

MUCOUS MEMBRANE OF THE TYMPANIC CAVITY-78:1

b. Auditory ossicles, articulations, ligaments and muscles

STAPES-77:43

HEAD-77:44

ANTERIOR LIMB-77:45

POSTERIOR LIMB-77:46

BASE-77:47

INCUS-77:48

BODY-77:49

LONG LIMB-77:50

LENTICULAR PROCESS-77:51

SHORT LIMB-77:52

MALLEUS-77:53

MANUBRIUM-77:54

HEAD-77:55

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- NECK-77:56
 LATERAL PROCESS-77:57
 ANTERIOR PROCESS-77:58
 ARTICULATIONS OF THE AUDITORY OSSICLES-77:59
 ARTICULATION BETWEEN INCUS AND MALLEUS-77:60
 ARTICULATION BETWEEN INCUS AND STAPES-77:61
 SYNDESMOSIS OF STAPES AND TYMPANUM-77:62
 LIGAMENTS OF THE AUDITORY OSSICLES-77:63
 The following ligaments are difficult to expose in an ordinary dissection:
 ANTERIOR LIGAMENT OF MALLEUS-77:64
 SUPERIOR LIGAMENT OF MALLEUS-77:65
 LATERAL LIGAMENT OF MALLEUS-77:66
 SUPERIOR LIGAMENT OF INCUS-77:67
 POSTERIOR LIGAMENT OF INCUS-77:68
 OBTURATOR MEMBRANE OF STAPES-77:69
 ANNULAR LIGAMENT OF BASE OF STAPES-77:70
 MUSCLES OF AUDITORY OSSICLES-77:72
 TENSOR TYMPANI MUSCLE-77:73
 STAPEDIUS MUSCLE-77:74
 AUDITORY TUBE-78:11 See also Section X:4.

c. External acoustic meatus-78:25

Its interior is exposed by removing (with a bone forceps and chisel) the anterior wall of the external acoustic meatus, guarding against injury to the tympanic membrane.

- EXTERNAL ACOUSTIC PORUS-78:26
 TYMPANIC INCISURE-78:27
 CARTILAGINOUS EXTERNAL ACOUSTIC MEATUS-78:28
 CARTILAGE OF ACOUSTIC MEATUS-78:29-31

The auricle of the external ear has been dealt with under Section I:4.

13. Intraosseous course of the facial, intermediate and acoustic nerves

The squamous portion of the temporal bone has already been removed, X:12a, and the upper part of the petrous part of the bone may now be removed by a horizontal saw-cut just above the roof of the internal acoustic meatus, the cut extending laterally into the tympanum. In relation to the mastoid wall of the tympanum attention has already been directed to the prominence of the facial canal in which runs the facial nerve, X:12a. This canal may now be opened with a bone forceps and chisel, followed into the labyrinthine wall of the tympanum, the roof of the internal acoustic meatus removed and the facial nerve exposed through the superior part of the facial canal. The inferior part of the facial canal may be demonstrated by removing the bone posterior and lateral to it by means of the two following saw-cuts: a) a frontal (vertical transverse) cut in a plane just posterior to the stylomastoid foramen; b) a sagittal (vertical anteroposterior) cut just lateral to the stylomastoid foramen to meet the first cut, removing the excised bone with a bone forceps and chisel.

- FACIAL NERVE-67:47
 GENU OF THE FACIAL NERVE-67:48
 GENICULATE GANGLION-67:49
 STAPEDIUS NERVE-67:50
 ANASTOMOSING RAMUS WITH THE TYMPANIC PLEXUS-67:51
 INTERMEDIATE NERVE-67:63

GREATER SUPERFICIAL PETROSAL NERVE-66:59

This nerve, while transmitting sensory fibers of the intermediate nerve, is classed systematically with the sphenopalatine ganglion and not as a branch of the intermediate nerve.

CHORDA TYMPANI-67:64

ACOUSTIC NERVE-67:65

XI. Brain: General Characteristics, Meninges, Blood Vessels and Cerebral Nerves

1. Larger subdivisions of the brain

For the removal of the brain see II:2a. A demonstration of its structures can best be undertaken in a specimen which has been hardened in formalin.

The following subdivisions of the brain may be identified by inspection without disturbing the meninges and blood vessels.

ENCEPHALON OR BRAIN-59:10

RHOMBENCEPHALON-59:11

MYELENCEPHALON-59:12

MEDULLA OBLONGATA-59:13

METENCEPHALON-60:18

PONS-60:19

CEREBELLUM-60:53

CEREBRUM-61:36

MESENCEPHALON-61:40

PROSENCEPHALON-62:12

DIENCEPHALON-62:13

Cannot be favorably demonstrated in the intact brain.

TELENCEPHALON-63:5

Subdivided into hemispheres-63:6 separated by the longitudinal fissure of the cerebrum-63:8.

2. Meninges and blood vessels of the brain

Some of the following structures have already been listed in connection with the removal of the brain II:1.

a. Meninges-65:32

DURA MATER OF BRAIN-65:33

FALX CEREBRI-65:34

TENTORIUM CEREBELLI-65:35

FALX CEREBELLI-65:36

DIAPHRAGMA SELLAE-65:37

FORAMEN DIAPHRAGMATICIS-65:38

INCISURA TENTORII-65:39

ARACHNOID OF BRAIN-65:45

SUBARACHNOID CAVITY-65:46

SUBARACHNOID CISTERNS-65:47

The structural characteristics of the subarachnoid cisterns may be demonstrated by making a median sagittal incision through the arachnoid membrane in the region of the anterior surface of the medulla oblongata and pons and

carefully reflecting the two flaps of the arachnoid laterally.

CISTERNA CEREBELLOMEDULLARY^{xx}-65:48

CISTERNA FOSSAE LATERALIS CEREBRI SYLVII^{xx}-65:49

CISTERNA CHIASMATIS^{xx}-65:50

CISTERNA INTERPEDUNCULARIS^{xx}-65:51

CISTERNA VENAE MAGNAE CEREBRI^{xx}-65:52

ARACHNOIDAL GRANULATIONS-65:53 See also II:1.

PIA MATER OF THE BRAIN-65:54

b. Blood vessels of the brain

Demonstrated by carefully removing the arachnoid membrane with scissors and forceps so far as this can be done without injuring or lacerating the brain itself.

VERTEBRAL ARTERY-48:21

POSTERIOR SPINAL ARTERY^{xx}-48:23

ANTERIOR SPINAL ARTERY^{xx}-48:24

POSTERIOR INFERIOR CEREBELLAR ARTERY-48:26

BASILAR ARTERY-48:27

ANTERIOR INFERIOR CEREBELLAR ARTERY-48:28

INTERNAL AUDITORY ARTERY^{xx}-48:29

PONINE RAMI^{xx}-48:30

SUPERIOR CEREBELLAR ARTERY-48:31

POSTERIOR CEREBRAL ARTERY-48:32

ARTERIAL CIRCLE OF WILLIS-48:33

INTERNAL CAROTID ARTERY-47:68

POSTERIOR COMMUNICATING ARTERY-48:15

CHORIOID ARTERY^{xx}-49:16

ANTERIOR CEREBRAL ARTERY-48:17

ANTERIOR COMMUNICATING ARTERY-48:18

MIDDLE CEREBRAL ARTERY-48:19

VEINS OF THE BRAIN-53:41

For the sinuses of the dura mater see II:2c. The cerebral veins are tributaries of these sinuses. The deeper veins cannot be favorably demonstrated at the present stage of the dissection; the following veins are superficial in position:

SUPERIOR CEREBRAL VEINS-53:42

MIDDLE CEREBRAL VEIN-53:43

INFERIOR CEREBRAL VEINS-53:44

SUPERIOR CEREBELLAR VEINS-53:45

INFERIOR CEREBELLAR VEINS-53:46

BASAL VEIN-53:51

3. Base of the brain and the cerebral nerves

a. Base of the brain

Exposed by removing (with a forceps and scissors) the remaining parts of meninges and blood vessels from the base of the brain, care being taken to guard against the tearing away of the cerebral nerves.

CEREBRAL PEDUNCLES-61:46

OPTIC CHIASMA-62:36

OPTIC TRACT-62:33

INTERPEDUNCULAR FOSSA-61:42

ANTERIOR RECESS^{xx}-61:43

POSTERIOR RECESS^{xx}-61:44

POSTERIOR PERFORATED SUBSTANCE-61:45

MAMILLARY BODIES-62:26

Statement of the Board of Directors of the
National Education Association
for the year ending June 30, 1918

Report of the Board of Directors of the
National Education Association
for the year ending June 30, 1918

Item	1917-18	1918-19
Assets		
Cash	1,234,567	1,345,678
Accounts receivable	234,567	245,678
Investments	345,678	356,789
Real estate	456,789	467,890
Other	567,890	578,901
Liabilities		
Accounts payable	123,456	134,567
Notes payable	234,567	245,678
Other	345,678	356,789
Net Assets	1,812,345	1,923,456

Statement of the Board of Directors of the National Education Association

The Board of Directors of the National Education Association has the honor to acknowledge the receipt of the report of the Executive Secretary for the year ending June 30, 1918. The report shows that the Association has during the year accomplished many of its objects and has made considerable progress in its work. The Board is pleased to note the success of the Association in its efforts to improve the education of the people of this country.

The Board of Directors of the National Education Association

Secretary

President

Members

TUBER CINEREUM-62:28
 INFUNDIBULUM-62:29
 LONGITUDINAL FISSURE OF CEREBRUM-63:8
 LATERAL FISSURE OF CEREBRUM-63:16
 PONS-60:19
 MEDULLA OBLONGATA-59:13

b. Cerebral nerves

OLFACTORY NERVES-66:3
 OPTIC NERVE-66:4
 OCULOMOTOR NERVE-66:5
 TROCHLEAR NERVE-66:9
 TRIGEMINAL NERVE-66;11
 PORTIO MAJOR-66:12
 PORTIO MINOR-66:14
 ABDUCENS NERVE-67:46
 FACIAL NERVE-67:47
 INTERMEDIATE NERVE-67:63
 ACOUSTIC NERVE-67:65
 VESTIBULAR ROOT-67:66
 COCHLEAR ROOT-67:67
 GLOSSOPHARYNGEAL NERVE-68:8
 VAGUS NERVE-68:22
 ACCESSORY NERVE-68:57
 HYPOGLOSSAL NERVE-68:60

XII. Brain: Surface Anatomy of the Rhombencephalon and Mesencephalon

1. Rhombencephalon-59:11

To facilitate the exposure of structures in the rhombencephalon and mesencephalon the following incisions may be made for the removal of the right hemisphere of the cerebrum and the right half of the cerebellum: a) with a sharp, thin knife making a transverse incision through the right cerebral peduncle just behind the right corpus mamillare, pressing apart the two cerebral hemispheres, exposing the corpus callosum and beginning at the corpus callosum, making a nearly median sagittal incision through all the structures in the middle line of the prosencephalon; the latter incision should preferably pass slightly to the left of the midline, leave the septum pellucidum attached to the right hemisphere, and then carried posteriorly until it meets the transverse incision just made through the cerebral peduncle and thus detaching the right cerebral hemisphere; b) in the same manner a second median sagittal incision is made through the vermis of the cerebellum, guarding against cutting into the floor of the fourth ventricle but carrying the incision forward through the anterior medullary velum as far as the inferior colliculi of the mesencephalon; finally by cutting through the brachium conjunctivum, brachium pontis and the corpus restiforme on the right, the right half of the cerebellum is detached, (both the right cerebral hemisphere and the right half of the cerebellum being transferred to preserving fluid for later reference.)

a. Medulla oblongata-59:13

POSTERIOR MEDIAN FISSURE-59:14
 ANTERIOR MEDIAN FISSURE-59:15
 FORAMEN CAECUM-59:16
 PYRAMID-59:17
 DECUSSATION OF PYRAMIDS-59:18
 ANTERIOR LATERAL SULCUS-59:19
 POSTERIOR LATERAL SULCUS-59:20
 OLIVE-59:21
 RESTIFORM BODY-59:22
 FUNICULUS LATERALIS-59:23
 FUNICULUS CUNEATUS-59:24
 TUBERCULUM CINEREUM-59:25
 FUNICULUS GRACILIS-59:26
 CLAVA-59:27
 EXTERNAL ARCUATE FIBERS-59:28

b. Pons-60:19

BASILAR SULCUS-60:20
 BRACHIUM PONTIS-60:23

c. Isthmus of rhombencephalon-61:25

BRACHIUM CONJUNCTIVUM-61:26
 LEMNISCUS-61:27
 TRIGONUM LEMNISCI-61:30
 ANTERIOR MEDULLARY VELUM-61:31
 FRENULUM OF ANTERIOR MEDULLARY VELUM-61:32

d. Cerebellum

GYRI OF THE CEREBELLUM-60:54
 SULCI OF THE CEREBELLUM-60:55
 VALLECULA CEREBELLI-60:56
 INCISURA CEREBELLI ANTERIOR-60:57
 INCISURA CEREBELLI POSTERIOR-60:58
 HORIZONTAL SULCUS-60:59
 TRANSVERSE FISSURE^{xx}-60:60
 VERMIS-60:61
 LINGULA CEREBELLI-60:62, 63
 CENTRAL LOBE-60:64
 MONTICULUS-60:65
 CULMEN-60:66
 DECLIVE-60:67
 FOLIUM VERMIS-60:68
 TUBER VERMIS-60:69
 UVULA-60:71
 NODULE-60:72
 HEMISPHERE OF CEREBELLUM-60:73
 SUPERIOR SURFACE-60:14
 ALA LOBULI CENTRALIS-60:75
 LOBULUS QUADRANGULARIS-60:76
 PARS ANTERIOR-60:77
 PARS POSTERIOR-60:78
 LOBULUS SEMILUNARIS SUPERIOR-61:1
 INFERIOR SURFACE-61:2
 LOBULUS SEMILUNARIS INFERIOR-61:3
 LOBULUS BIVENTER-61:4
 TONSIL OF CEREBELLUM-61:5
 FLOCCULUS-61:6

2. Fourth ventricle-59:58a. Floor of the fourth ventricle

- RHOMBOID FOSSA-59:59
- PARS INFERIOR [CALAMUS SCRIPTORIUS]-59:60
- PARS INTERMEDIA-59:62
- LATERAL RECESS-59:63
- PARS SUPERIOR-59:64
- SULCUS LIMITANS-59:65
- FOVEA INFERIOR-59:66
- FOVEA SUPERIOR-60:1
- TRIGONUM N. HYPOGLOSSI-60:2
- STRIAE MEDULLARES-60:3
- EMINENTIA MEDIALIS-60:4
- COLLICULUS FACIALIS-60:5
- ALA CINEREA-60:6
- AREA ACUSTICA-60:7
- LOCUS CAERULEUS-60:8

b. Roof of the fourth ventricle-60:9

- POSTERIOR MEDULLARY VELUM-60:10
- TAENIA VENTRICULI QUARTI-60:11
- OBEX-60:12
- EPITHELIAL CHORIOID LAYER-60:13
- MEDIAN APERTURE [FORAMEN OF MAGENDIE]-60:14
- LATERAL APERTURE-60:16
- FASTIGIUM-60:17

3. Mesencephalon-61:40

For structures relative to the inferior surface of the mesencephalon-61:41-45, see XI:3a.

- CEREBRAL PEDUNCLES-61:46
- AQUAEDUCTUS CEREBRI-61:47
- SULCUS LATERALIS-61:48
- SULCUS N. OCULOMOTORII-61:49
- QUADRIGEMINAL BODIES-62:1
- LAMINA QUADRIGEMINA-62:2
- COLLICULUS SUPERIOR-62:3
- COLLICULUS INFERIOR-62:4
- BRACHIUM QUADRIGEMINUM SUPERIUS-62:5
- BRACHIUM QUADRIGEMINUM INFERIUS-62:6

XIII. Brain: Surface Anatomy of the Prosencephalon11 General subdivisions of the prosencephalon

The remaining cerebral hemisphere may be detached by carefully cutting through the left cerebral peduncle just posterior to the left mamillary body, the rhombencephalon and mesencephalon being transferred to preserving fluid for later reference.

- PROSENCEPHALON-62:12
- DIENCEPHALON-62:13
- THA. LAMENCEPHALON-62:51
- PARS MAMILLARIS HYPOTHALAMI-62:25
- TELENCEPHALON-63:5

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MEMORANDUM FOR THE DIRECTOR

Subject: [Illegible]

Reference is made to [Illegible]

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HEMISPHERE-63:6

PARS OPTICA HYPOTHALAMI-63:27

2. Telencephalona. Pallium: general characteristics

LONGITUDINAL FISSURE OF CEREBRUM-63:8
 TRANSVERSE FISSURE OF CEREBRUM-63:9
 SULCI OF THE CEREBRUM-63:13
 GYRI OF THE CEREBRUM-63:10
 GYRI PROFUNDI-63:11
 GYRI TRANSITIVI-63:12
 GRAY SUBSTANCE-58:5
 WHITE SUBSTANCE-58:4
 PETROSAL IMPRESSION-63:14
 LATERAL CEREBRAL FOSSA-63:15
 LATERAL CEREBRAL FISSURE SYLVIAN -63:16
 POSTERIOR RAMUS-63:17
 ASCENDING ANTERIOR RAMUS-63:18
 HORIZONTAL ANTERIOR RAMUS-63:19

The pallium as a whole is subdivided into the following five lobes and related fissures and sulci:

LATERAL CEREBRAL FISSURE [SYLVIAN]-63:16
 CENTRAL SULCUS-63:30
 PARIETO-OCCIPITAL FISSURE-64:12
 COLLATERAL FISSURE-63:60
 CIRCULAR SULCUS-63:25
 FRONTAL LOBE-63:33
 TEMPORAL LOBE-63:50
 OCCIPITAL LOBE-63:63
 PARIETAL LOBE-63:70
 INSULA-63:21

b. Lobes of the cerebrum

FRONTAL LOBE-63:33
 FRONTAL POLE-63:34
 ANTERIOR CENTRAL GYRUS-63:31
 PRECENTRAL SULCUS-63:35
 SUPERIOR FRONTAL GYRUS-63:36
 SUPERIOR FRONTAL SULCUS-63:37
 MIDDLE FRONTAL GYRUS-63:38
 PARS SUPERIOR-63:39
 PARS INFERIOR-63:40
 INFERIOR FRONTAL SULCUS-63:41
 INFERIOR FRONTAL GYRUS-63:42
 PARS OPERCULARIS-63:43
 PARS TRIANGULARIS-63:44
 PARS ORBITALIS-63:45
 STRAIGHT GYRUS-63:46
 OLFACTORY SULCUS-63:47
 ORBITAL GYRI-63:48
 ORBITAL SULCI-63:49
 PARIETAL LOBE-63:70
 POSTERIOR CENTRAL GYRUS-63:32
 SUPERIOR PARIETAL LOBULE-63:71
 INTERPARIETAL SULCUS-63:72
 INFERIOR PARIETAL LOBULE-63:73

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- SUPRAMARGINAL GYRUS-63:74
 ANGULAR GYRUS-63:75
- TEMPORAL LOBE-63:50
 TEMPORAL POLE-63:51
 TRANSVERSE TEMPORAL SULCI-63:52
 TRANSVERSE TEMPORAL GYRI-63:53
 SUPERIOR TEMPORAL GYRUS-63:54
 SUPERIOR TEMPORAL SULCUS-63:55
 MIDDLE TEMPORAL GYRUS-63:56
 MIDDLE TEMPORAL SULCUS-63:57
 INFERIOR TEMPORAL GYRUS-63:58
 INFERIOR TEMPORAL SULCUS-63:59
 COLLATERAL FISSURE-63:60
 FULIFORM GYRUS-63:61
 LINGUAL GYRUS-63:62
- OCCIPITAL LOBE-63:62
 OCCIPITAL POLE-63:64
 TRANSVERSE OCCIPITAL SULCUS-63:65
 SUPERIOR OCCIPITAL GYRI-63:66
 SUPERIOR OCCIPITAL SULCI-63:67
 LATERAL OCCIPITAL GYRI-63:68
 LATERAL OCCIPITAL SULCI-63:69
- INSULA-63:21
 OPERCULUM-63:26
 PARS FRONTALIS-63:27
 PARS PARIETALIS-63:28
 PARS TEMPORALIS-63:29
 GYRI INSULAE-63:22
 Exposed by pulling apart the margins of the lateral fissure cutting away a part of the operculum if necessary.
 GYRUS LONGUS INSULAE-63:23
 GYRI BREVES INSULAE-63:24
 SULCUS CENTRALIS-63:30
 SULCUS CIRCULARIS-63:25

c. Medial surface of the hemisphere-63:76

- SULCUS CORPORIS CALLOSI-63:77
 SULCUS CINGULI-63:78
 PARS SUBFRONTALIS-63:79
 PARS MARGINALIS-64:1
 SULCUS SUBPARIETALIS-64:2
 FISSURA HIPPOCAMPI-64:3
 In the fissura hippocampi the fascia dentata hippocampi-64:56, and the fimbria hippocampi-64:53, may be observed.
 GYRUS FORNICATUS-64:4
 GYRUS CINGULI-64:5
 ISTHMUS GYRI FORNICATI-64:6
 GYRUS HIPPOCAMPI-64:4
 UNCUS-64:8
 SUBSTANTIA RETICULARIS ALBA-64:9
 LOBULUS PARACENTRALIS-64:10
 PRAECUNEUS-64:11
 FISSURA PARIETOCCIPITALIS-64:12
 FISSURA CALCARINA-64:13
 TUBERUS-64:14

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d. Rhinencephalon-64:58

- SULCUS PAROLFATORIUS ANTERIOR-64:59
- PARS ANTERIOR-64:60
 - LOBUS OEFACTORIUS-64:61
 - BULBUS OLFACTORIUS-64:62
 - TRACTUS OLFACTORIUS-64:63
 - TRIGONUM OLFACTORIUM-64:64
 - STRIA MEDIALIS-64:65
 - STRIA INTERMEDIA-64:66
 - AREA PAROLFATORIA-64:67
- SULCUS PAROLFATORIUS POSTERIOR-64:68
- PARS POSTERIOR-64:69
 - GYRUS SUBCALLOSUS-64:70
 - SUBSTANTIA PERFORATA ANTERIOR-64:71
 - STRIA OLFACTORIA LATERALIS-64:72
 - LIMEN INSULAE-64:73

e. Hypothalamus-62:24

- PARS OPTICA HYPOTHALAMI-62:27

Only the optic part of the hypothalamus is in relation to the telencephalon; the mamillary part-62:25, includes the corpus mamillare-62:26.
- TUBER CINEREUM-62:28
- INFUNDIBULUM-62:29
- HYPOPHYSIS-62:30
 - LOBUS ANTERIOR-62:31
 - LOBUS POSTERIOR-62:32
- TRACTUS OPTICUS-62:33
 - RADIX MEDIALIS-62:34
 - RADIX LATERALIS-62:35
- CHIASMA OPTICUM-62:36
- LAMINA TERMINALIS-62:37

f. Corpus callosum-64:15

The corpus callosum may be demonstrated by slicing off the upper part of the right hemisphere at the level of the sulcus cinguli (incidentally exposing the centrum semiovale-64:76), cutting transversely through the middle of the gyrus cinguli and carefully tearing away the anterior and posterior parts of the gyrus cinguli, exposing at the same time parts of the radiatio corporis callosi-65:6-11, and the cingulum-65:2.

- SPLENIUM CORPORIS CALLOSI-64:16
- TRUNCUS CORPORIS CALLOSI-64:17
- GENU CORPORIS CALLOSI-64:18
- ROSTRUM CROPORIS CALLOSI-64:19
 - LAMINA ROSTRALIS-64:20
- STRIAE TRANSVERSAE-64:21
- STRIA LONGITUDINALIS MEDIALIS-64:22
- STRIA LONGITUDINALIS LATERALIS-64:23
- FASCIOLA CINEREA-64:24

g. Ventriculus lateralis-64:35

The lateral ventricle may be exposed by making the following dissections: a) making a longitudinal incision through the corpus callosum about 1 cm. from the medial sagittal plane, reflect lateralward and detach the part of the corpus callosum lateral to the incision, taking care to leave in situ the part of the corpus callosum medial to

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the incision and the pars occipitalis of the radiatio corporis callosi-65:10; b) cutting backward and lateralward through the medullary substance forming the roof of the ventricular cavity, remove enough of the roof to expose the interior of the central part of the cavity; c) to open the inferior cornu extend the preceding incision downward and forward through the lateral part of the temporal lobe towards the temporal pole, following the course of the cavity (which lies nearly parallel to the superior temporal sulcus), and remove the part of the temporal lobe superior to this incision together with the pars temporalis of the operculum-63:26, but guarding the insula from injury.

CORNU ANTERIUS-64:37

CAPUT NUCLEI CAUDATI-64:42

PARS CENTRALIS-64:36

NUCLEUS CAUDATUS-64:41

STRIA TERMINALIS-64:44

TERMINAL VEIN-53:50

LAMINA AFFICA-64:45

LAMINA CHORIOIDEA EPITHELIALIS-64:47

PLEXUS CHORIOIDEUS VENTRICULI LATERALIS-65:62

TAENIA CHORIOIDEA-64:64

THALAMUS-63:52 Largely covered by the chorioid plexus.

TAENIA FORNICIS-64:28

CORNU POSTERIUS-64:38

TAPETUM-65:11 With reference only to the roof and lateral wall of the posterior cornu.

CALCAR AVIS-64:48

(BULBUS CORNU POSTERIORIS)-64:49

CORNU INFERIUS-64:39

The mutual relations of the inferior cornu and the insula may be more thoroughly examined by insinuating the fingers beneath the pars frontalis and pars parietalis of the operculum-63:27, 28, and carefully tearing away the cortex in an upward direction. The following two structures are in relation to the inferior wall:

EMINENTIA COLLATERALIS-64:50 Sometimes absent.

TRIGONUM COLLATERALE-64:51

The following structures are in relation to the lateral and superior walls of the inferior cornu:

TAPETUM-65:11

NUCLEUS AMYGDALAE-65:21

STRIA TERMINALIS-64:44

CAUDA NUCLEI CAUDATI-64:43

In relation to the medial wall the following structures may be observed:

HIPPOCAMPUS-64:52

DIGITATIONES HIPPOCAMPI-64:55

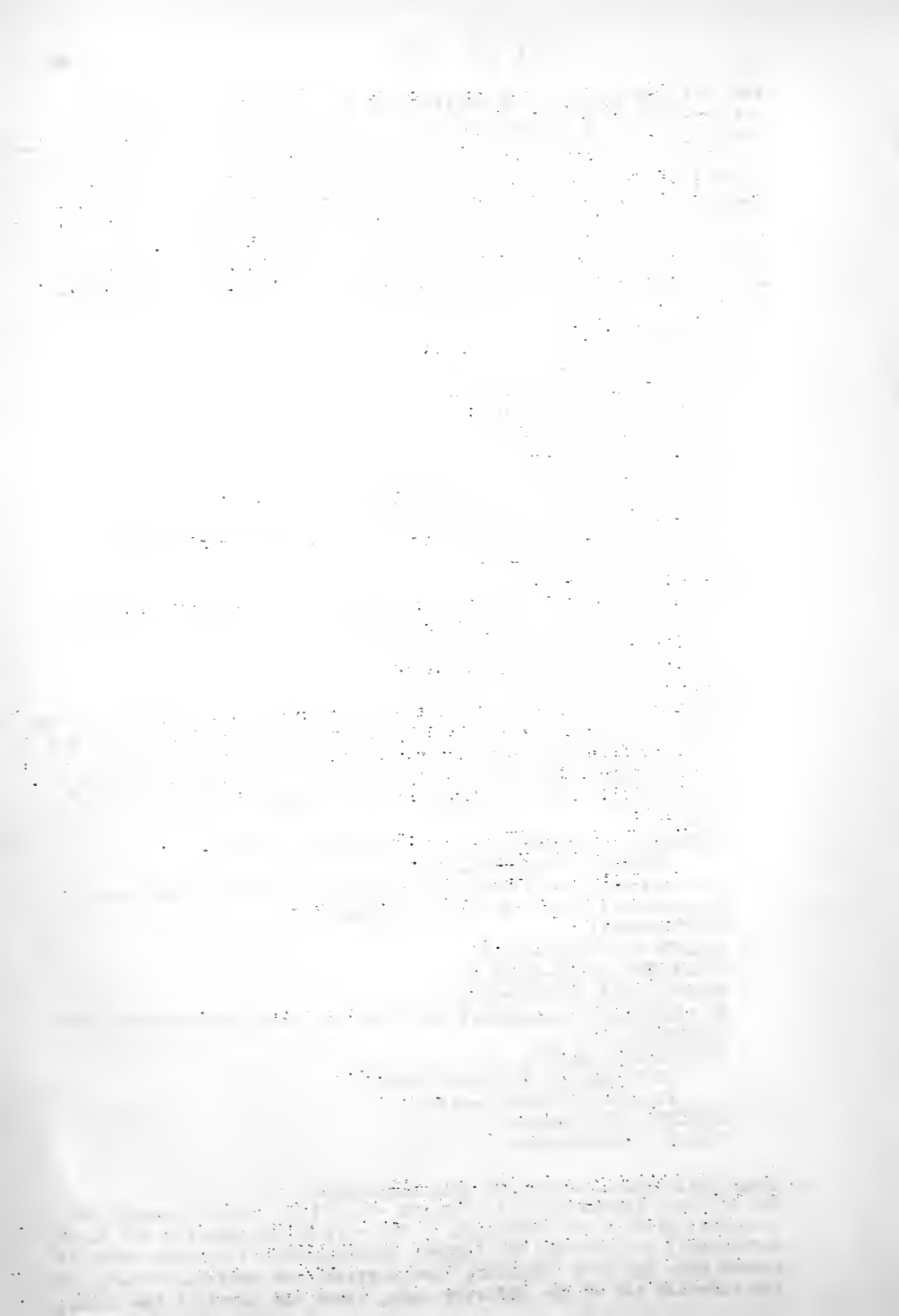
FIMBRIA HIPPOCAMPI-64:53

CHORIOID PLEXUS-65:62

TAENIA FIMBRIAE-64:54

h. Septum pellucidum, fornix and tela chorioidea

The septum pellucidum and fornix are exposed by cutting through the occipital part of the radiation of the corpus callosum (of the right hemisphere) and through the fimbria hippocampi at the point where it passes into the crus fornicis, then carrying the knife anteriorly from the anterior end of the inferior horn, above the level of the uncus,



through the temporal pole, separating the temporal lobe, together with the hippocampal gyrus medial to it, from the remainder of the brain along the line of the transverse fissure of the cerebrum; finally paring away enough of the cut edge of the medial part of the corpus callosum necessary to satisfactorily demonstrate the septum pellucidum and fornix.

SEPTUM PELLUCIDUM-64:32

LAMINA SEPTI PELLUCIDI-64:33

CAVUM SEPTI PELLUCIDI-64:34

Exposed by cutting through the remaining medial part of the corpus callosum just posterior to the genu, carefully detaching it from the septum pellucidum and fornix and separating the two laminae of the septum.

FORNIX-64:25

CRUS FORNICIS-64:26

CORPUS FORNICIS-64:27

TAENIA FORNICIS-64:28

COLUMNA FORNICIS-64:29

PARS LIBERA COLUMNAE FORNICIS-64:30

PARS TECTA COLUMNAE FORNICIS-64:31

TELA CHORIOIDEA VENTRICULI TERTII-65:60

Exposed by cutting transversely through the middle of the corpus fornicis, carefully raising the two parts of the fornix and reflecting them anteriorly and posteriorly, noting the commissura hippocampi-64:57, situated between the crura of the fornix.

INTERNAL CEREBRAL VEINS-53:47

VEIN OF SEPTUM PELLUCIDUM-53:49

TERMINAL VEIN-53:50

CHORIOID VEIN-53:52

PLEXUS CHORIOIDEUS VENTRICULI LATERALIS-65:62

GLOMUS CHORIOIDEUM-65:63

PLEXUS CHORIOIDEUS VENTRICULI TERTII-65:61

Exposed by dividing the terminal vein at its junction with the internal cerebral vein, seizing the apex of the tela chorioidea and pulling it backwards exposing the cavity of the third ventricle, but guarding against injury to the attachments of the corpus pineale-62:62

2. Thalamencephalon-62:51

a. Thalamus-62:52

PULVINAR-62:53

TUBERCULUM ANTERIUS THALAMI-62:54

TAENIA THALAMI-62:55

STRIA MEDULLARIS-62:56

LAMINA CHORIOIDEA EPITHELIALIS-62:57

b. Metathalamus-62:58

CORPUS GENICULATUM MEDIALE-62:59

CORPUS GENICULATUM LATERALE-62:60

c. Epithalamus-62:61

CORPUS PINEALE-62:62

RECESSUS PINEALIS-62:63

RECESSUS SUPRAPINEALIS-62:64

HABENULA-62:65

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COMMISSURA HABENULARUM-62:66
TRIGONUM HABENULAE-62:67

3. Ventriculus tertius-82:14

ADITUS AD AQUAEDUCTUM CEREBRI-62:15
COMMISSURA POSTERIOR-62:16
FORAMEN VENTRICULARE-62:17
SULCUS HYPOTHALAMICUS-62:18
MASSA INTERMEDIA-62:19
RECESSUS OPTICUS-62:20
RECESSUS INFUNDIBULI-62:21
COMMISSURA ANTERIOR-62:22
RECESSUS TRIANGULARIS-62:23

XIV. Brain: Sections through the Brain

The majority of the structures to be observed in stained and unstained sections of the brain require a hand lens or microscope for their demonstration. These structures have not been repeated in detail here since they are given complete in part II, as originally listed in the B N A.

1. Structures in section of the medulla oblongata-59:29-57

Exposed in transverse sections made at (a) the level of the decussation of the pyramids; (b) between the decussation of the pyramids and the olives; and (c) through the middle of the olives.

2. Structures in sections of the pons-62:24-52

Demonstrated in transverse sections made at (a) about the junction of the pons and medulla, passing through point of entrance of the acoustic nerve; (b) at the level of the roots of the facial and abducens nerves; (c) at the level of the roots of the trigeminal nerves, and (d) through the anterior medullary velum and the middle of the pons.

3. Structures in sections of the cerebellum-61:10-24

Demon

Demonstrated in the following sections: a) a median sagittal section through the vermis; b) a frontal section through about the middle of one half the cerebellum; and c) a horizontal section through the other half of the cerebellum in the plane of the brachium conjunctivum.

4. Structures in sections of the rhombencephalic isthmus and the mesencephalon.

Demonstrated in transverse sections made (a) through the inferior colliculus at the level of the nucleus of the trochlear nerve; and (b) through the superior colliculus and lateral geniculate body at the level of the roots of the oculomotor nerve and the nucleus ruber.

a. Sections of the isthmus rhombencephali-61:33-35

b. Sections of the pedunculus cerebri-61:50-65

c. In sections of the corpora quadrigemina-62:7-115. Structures in sections through the prosencephalon

For the demonstration of these structures, horizontal sections about $\frac{1}{2}$ to 1 cm. thick should be made through the remainder of the right cerebral hemisphere. In the left hemisphere, which should have been retained intact, either vertical frontal or obliquely frontal sections may be made.

The vertical frontal sections should pass through the following regions: a) through the genu of the corpus callosum; b) through the septum pellucidum between the body and rostrum of the corpus callosum; c) through the tips of the temporal lobes; d) through the foramen interventriculare; e) through the corpora mamillaria; f) through the subthalamic region; g) through the upper end of the aquaeductus cerebri.

The obliquely frontal sections should all be parallel to the sulcus centralis and pass through the following regions (in accordance with the method of Pitris, 1877): a) through the lobus frontalis about 5 cm. anterior to the sulcus centralis; b) through the pars opercularis of the gyrus frontalis inferior and the corresponding portions of the gyrus medius and gyrus frontalis superior; c) through the middle of the gyrus centralis anterior; d) through the middle of the gyrus centralis posterior; e) through the anterior ends of the lobulus parietalis superior and lobulus parietalis inferior; f) through the posterior part of the cerebrum about 1 cm. anterior to the fissura parietooccipitalis.

In addition to the preceding horizontal and frontal sections, the following sections are especially instructive: a) through the brain in a plane passing parallel to the course of the brachia conjunctive and through them; and b) through the brain in a plane parallel to the course of the cerebral peduncles and through them.

a. Sections of the hypothalamus-62:38-50b. Sections of the thalamencephalon-62:68-73, 63:1-4c. Sections of the telencephalon-64:75-77, 65:1-31XV. Organ of Vision.1. Optic nerve-73:4 See also X:10b.

VAGINAE N. OPTICI-73:5

SPATIA INTERVAGINALIS-73:6

2. Bulbus oculi-73:7

As a rule, the ordinary cadaver material is not favorable for the present purpose and must consequently be supplemented by eyeballs obtained from the ox or pig, in which the various structures may be demonstrated in both fresh specimens and in material hardened in formalin. The conjunctiva and fascia bulbi are caught with a forceps, cut through close to and entirely around the cornea and these structures together with any other soft parts removed from the surface of the sclera, and two hardened eyeballs cut into halves, the one by a sagittal and the other by a coronal section.

ANTERIOR POLE-73:8
 POSTERIOR POLE-73:9
 EQUATOR-73:10
 MERIDIANS-73:11
 EXTERNAL AXIS OF EYEBALL-73:12
 INTERNAL AXIS OF EYEBALL-73:13
 OPTIC AXIS-73:14
 LINE OF VISION-73:15
 Ophthalmic vesicle^x-73:16
 Ophthalmic cup-73:17

3. Tunica fibrosa oculi-73:18

a. Sclera-73:19

Exposed by cutting through the sclera at the equator with a sharp knife and with a scissors carrying the incision completely around the eyeball along the line of the equator (carefully guarding against injury to the black chorioid coat); separating both parts of the sclera from the subjacent structures and reflecting the anterior part forwards, breaking the attachment of the ciliary muscle to its deep surface, and separating the posterior part by dividing the fibers of the optic nerve in a plane corresponding to the inner surface of the sclera.

SULCUS SCLERAE-73:20
 RIMA CORNEALIS-73:21
 SINUS VENOSUS SCLERAE-73:22
 LAMINA FUSCA-73:23
 LAMINA CRIBROSA SCLERAE-73:24
 (RAPHE SCLERAE)-73:25
 (FUNICULUS SCLERAE)-73:26

b. Cornea-73:27

ANNULUS CONJUNCTIVAE-73:28
 VERTEX CORNEAE-73:29
 LIMBUS CORNEAE-73:30
 FACIES ANTERIOR-73:31
 FACIES POSTERIOR-73:32
 The following structures can only be adequately demonstrated in thin sections by means of a hand lens and microscope.
 EPITHELIUM CORNEAE-73:33
 LAMINA ELASTICA ANTERIOR-73:34
 SUBSTANTIA PROPRIA-73:35
 LAMINA ELASTICA POSTERIOR-73:36
 ENDOTHELIUM CAMERAE ANTERIORIS-73:37

4. Tunica vasculosa oculi-73:38

a. Chorioidea-73:38

LAMINA SUPRACHORIOIDEA-73:40
 SPATIUM PERICHORIOIDEALE-73:41
 LAMINA VASCULOSA-73:42

The vorticose vessels-53:60, are exposed by brushing away the pigment with a camel's hair brush.

LAMINA CHORIOCAPILLARIS-73:43
 LAMINA BASALIS-73:44
 (RAPHE CHORIOIDEAE)-73:45

b. Corpus ciliare-73:46

CORONA CILIARIS-73:47

Demonstrated by making a coronal section through an eyeball slightly anterior to the equator and carefully removing the vitreous humor from the anterior segment of the eyeball.

PROCESSUS CILIARES-73:48

PLICAE CILIARES-73:49

ORBICULARIS CILIARIS-73:50

CILIARY MUSCLE-73:51

The following fibers require a microscope for their adequate demonstration:

FIBRAE MERIDIONALES-73:52

FIBRAE CIRCULARES-73:53

PLEXUS GANGLIOSUS CILIARIS-73:54

c. Iris-73:55

Exposed by cutting around the sclerocorneal junction and removing the cornea, making several meridional incisions through the anterior part of the sclera; the strips of sclera may then be separated from the ciliary muscle, bent aside and pinned to the bottom of a cork-lined tray filled with water, the iris examined and then removed for a more complete demonstration of its structure.

MARGO PUPILLARIS-73:56

MARGO CILIARIS-73:57

FACIES ANTERIOR-73:58

FACIES POSTERIOR-74:1

ANNULUS IRIDIS MAJOR-74:2

ANNULUS IRIDIS MINOR-74:3

PICTAE IRIDIS-74:4

PUPILLA-74:5

SPHINCTER MUSCLE OF PUPIL-74:6

STROMA IRIDIS-74:7

DILATOR MUSCLE OF PUPIL-74:8

PECTINATE LIGAMENT OF IRIS-74:9

SPATIA ANGULI IRIDIS-74:10

GREATER ARTERIAL CIRCLE-74:11

LESSER ARTERIAL CIRCLE-74:12

(MEMBRANA PUPILLARIS)^x-74:13d. Ciliary nerves and vessels

SHORT CILIARY NERVES-66:37

LONG CILIARY NERVES-66:25

SHORT POSTERIOR CILIARY ARTERIES-47:75

LONG POSTERIOR CILIARY ARTERIES-47:76

ANTERIOR CILIARY ARTERIES-48:1

VENAE VORTICOSAE-53:60

5. Pigment layer-74:14

Exposed by removing the chorioidea under water.

STRATUM PIGMENTI RETINAE-74:15

STRATUM PIGMENTI CORPORIS CILIARIS-74:16

STRATUM PIGMENTI IRIDIS-74:17

6. Retina-74:18

Exposed by removing the chorioidea from eyegall from which the

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1912

1912

1912

sclera and cornea have already been taken away.

PARS OPTICA RETINAE-74:19

ORA SERRATA-74:20

PARS CILIARIS RETINAE-74:21

PAPILLA N. OPTICI-74:22

EXCAVATIC PAPILLAE N. OPTICI-74:23

MACULA LUTEA-74:24

FOVEA CENTRALIS-74:25

VASA SANGUINEA RETINAE-74:26-34

May be examined in the living eye with the ophthalmoscope.

7. Vitreous body-74:38

Obtained from an eyeball which has been kept for several days without preservatives, by dividing the coats of the eye at the equator, carefully turning back the cut edges and allowing the "eye-kernel" (vitreous body and crystalline lens) to slip out into a vessel of water; the demonstration of the hyaloid membrane, capsule of the lens, and the zonula ciliaris may also be facilitated by staining for a few minutes in strong picocarmin solution and washing in water.

HYALOID ARTERY^x-74:39

CANALIS HYALOIDEA-74:40

FOSSA HYALOIDEA-74:41

MEMBRANA HYALOIDEA-74:42

STROMA VITREUM-74:43

HUMOR VITREUS-74:44

8. Zonula ciliaris-74:59

FIBRAE ZONULARES-74:60

SPATIA ZONULARIA-74:61

Their structural characteristics may be demonstrated by inserting the point of a fine blow-pipe into the spaces and inflating them with air.

9. Crystalline lens-74:45

Isolated for observation by cutting through the zonular fibers of the zonula ciliaris and removing the lens.

CAPSULA LENTIS-74:51

POLUS ANTERIOR LENTIS-74:52

POLUS POSTERIOR LENTIS-74:53

FACIES ANTERIOR LENTIS-74:54

FACIES POSTERIOR LENTIS-74:55

AXIS LENTIS-74:56

AEQUATOR LENTIS-74:57

RADII LENTIS-75:58

SUBSTANTIA LENTIS-74:46

Exposed by cutting through the anterior wall of the capsule and pressing the lens out through the opening.

SUBSTANTIA CORTICALIS-74:47

NUCLEUS LENTIS-74:48

With the aid of a microscope the following structures may be demonstrated in a lens which has been hardened in alcohol and teased apart.

FIBRAE LENTIS-74:49

EPITHELIUM LENTIS-74:50

10. Chambers of the eyeball

CAMERA OCULI ANTERIOR-74:35

ANGULUS IRIDIS-74:36

CAMERA OCULI POSTERIOR-74:37

ABDOMEN AND PELVIS

ABDOMEN AND PELVISI. General Characteristics1. Subdivisions of abdomen and pelvis

ABDOMEN-4:55
 ABDOMINAL CAVITY-4:56
 SCROBICULUS CORDIS-4:57
 UMBILICUS-4:58
 FLANK-4:59
 LOIN-4:60
 GROIN-4:61
 PELVIS-5:1
 PELVIC CAVITY-5:2
 MONS PUBIS-5:3
 HIP-5:4
 BUTTOCK-5:5
 ANUS-5:6
 ANAL CLEFT-5:7
 PERINEUM-5:8

2. Surface anatomy

XIPHOID PROCESS-7:52
 RIBS-7:28 Anterior ends of 7th to 12th ribs.
 ILIAC CREST-15:18
 POSTERIOR SUPERIOR ILIAC SPINE-15:34
 CRISTA SACRALIS MEDIA-7:18
 ANTERIOR SUPERIOR ILIAC SPINE-15:22
 INGUINAL LIGAMENT-25:41
 SUPERIOR RAMUS OF THE PUBIC BONE-15:50
 SYMPHYSIS PUBIS-15:53
 PUBIC TUBERCLE-15:44
 LINEA ALBA-25:34
 LINEA SEMILUNARIS-25:49
 SUBCUTANEOUS INGUINAL RING-25:44
 SPERMATIC CORD-40:37
 ROUND LIGAMENT OF THE UTERUS-43:23 In the female.
 TUBER ISCHIADICUM-15:36
 INFERIOR RAMUS OF THE ISCHIUM-15:35

3. Regions

EPIGASTRIC REGION-83:15
 HYPOCHONDRIAC REGION-83:16
 MESCOGASTRIC REGION-83:17
 UMBILICAL REGION-83:18
 LATERAL ABDOMINAL REGION-83:19
 HYPOGASTRIC REGION-83:20
 PUBIC REGION-83:21
 INGUINAL REGION-83:22
 Regions of the back in relation to the pelvis:
 PERINEAL REGION-83:33
 ANAL REGION-83:34
 UROGENITAL REGION-83:35
 PUDDENDAL REGION-83:36

REPORT OF THE

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II. Perineal region1. Surface anatomya. Perineal region in general

SYMPHYSIS PUBIS-15:53
 ARCULATE LIGAMENT-20:61
 COCCYX-7:25
 INFERIOR RAMUS OF THE PUBIS-15:49
 INFERIOR RAMUS OF THE ISCHIUM-15:35
 SACROTUBEROUS LIGAMENT-20:49
 PERINEAL RAPHE-43:18

b. Pudendal region in the male

CORPUS PENEIS-40:68
 DORSUM OF PENIS-40:70
 URETHRAL SURFACE-40:71
 GLANS PENIS-40:72
 CORONA GLANDIS-40:73
 SEPTUM GLANDIS-40:74
 COLLUM GLANDIS-40:75
 PREPUCE-41:1
 FRENULUM OF PREPUCE-41:2
 EXTERNAL URETHRAL ORIFICE-41:28
 SCROTUM-41:31
 RAPHE OF SCROTUM-41:32

c. Pudendal region in the female

MONS PUBIS-5:s
 FEMALE PUDENDUM-42:45
 LABIUM MAJUS PUDENDAE-42:46
 ANTERIOR LABIAL COMMISSURE-42:47
 POSTERIOR LABIAL COMMISSURE-42:48
 FRENULUM OF PUDENDAL LABIA-42:49
 RIMA PUDENDI-42:50
 FOSSA NAVICULARIS-42:51
 LABIUM MINUS PUDENDI-42:52
 VESTIBULUM VAGINAE-42:53
 ORIFICIUM VAGINAE-42:57
 CLITORIS-42:59
 CORPUS CLITORIS-42:61
 GLANS CLITORIS-42:62
 FRENULUM OF CLITORIS-42:63 PREPUCE OF CLITORIS-42:64
 EXTERNAL ORIFICE OF URETHRA-42:71
 HYMEN-42:29
 HYMEN CARUNCLES-42:30

2. Urogenital region: Structures external to the urogenital diaphragma. In the male

Skin incisions (The body being in the lightotomy position): a) transversely between the anterior extremities of the ischial tuberosities; b) median along the median raphe from the sacrum to the tip of the coccyx, encircling the anus.

SUPERFICIAL PERINEAL FASCIA-43:45

The following structures in the compartment between the superficial perineal fascia and the urogenital diaphragm are exposed by making

THIS DAY OF [illegible]

ARTICLE [illegible]

[illegible text]

ARTICLE [illegible]

[illegible text]

ARTICLE [illegible]

[illegible text]

WITNESSETH THAT

[illegible text]

IN WITNESS WHEREOF, the undersigned have hereunto set their hands and seals at the City of [illegible], State of Texas, this [illegible] day of [illegible], 19[illegible].

[illegible]

[illegible text]

an incision through the deeper layer of the superficial perineal fascia, beginning in the median line at the base of the scrotum and extending to the ischial tuberosity on each side, and reflecting the fascial flaps.

SUPERFICIAL TRANSVERSE PERINEAL MUSCLE-43:42

ISCHIOCAVERNOSUS MUSCLE-43:43

BULBOCAVERNOSUS MUSCLE-43:44

PERINEAL ARTERY-51:19

POSTERIOR SCROTAL ARTERIES-51:20

PERINEAL NERVE-71:21

POSTERIOR SCROTAL NERVES-71:22

PERINEAL RAMI OF THE POSTERIOR FEMORAL CUTANEOUS NERVE-70:53

LYMPHATIC VESSELS

ROOT OF PENIS-40:67

CRURA OF PENIS-40:69

CORPORA CAVERNOSA PENIS-41:4

The following structures are exposed by dividing the bulbocavernosus muscle in the midline and reflecting the muscle.

CORPUS CAVERNOSUM URETHRAE-41:5

BULBUS URETHRAE-41:6

HEMISPHERES OF BULB OF URETHRA-41:7

SEPTUM OF BULB OF URETHRA-41:8

b. In the female

Skin incisions (The body being in the lithotomy position): a) transversely between the ischial tuberosities; b) along the median line extending from the mons pubis to the tip of the coccyx, encircling the labia majora and the anal orifice.

SUPERFICIAL PERINEAL FASCIA-43:45

PERINEAL ARTERY-51:19

POSTERIOR LABIAL ARTERIES-51:21

PERINEAL NERVE-71:21

POSTERIOR LABIAL NERVES-71:23

PERINEAL RAMI OF THE POSTERIOR FEMORAL CUTANEOUS NERVE-70:53

LYMPHATIC VESSELS

SUPERFICIAL TRANSVERSE PERINEAL MUSCLE-43:42 Not constant in degree of development.

ISCHIOCAVERNOSUS MUSCLE-43:43

BULBOCAVERNOSUS MUSCLE-43:44

The following structures are exposed by reflecting the bulbocavernosus and ischiocavernosus muscles.

BULBUS VESTIBULI-42:54

GLANDULA VESTIBULARIS MAJOR-42:58

CRURA CLITORIDIS-42:60

CORPUS CLITORIDIS-42:61

CORPORA CAVERNOSA CLITORIDIS-42:66

SEPTUM CORPORUM CAVERNOSORUM-42:67

FASCIA CLITORIDIS-42:68

GLANS CLITORIDIS-42:62

3. Urogenital diaphragm

a. Inferior fascia of the urogenital diaphragm-43:37

Exposed by detaching the ischiocavernosus muscle and the crus penis (the crus clitoridis in the case of the female) from the pubic arch on each side; guarding against injury to the inferior fascia of the urogenital diaphragm, branches of the

internal pudendal artery and the dorsal nerve of the penis (or the clitoris in the female).

The inferior fascia of the urogenital diaphragm is removed in exposing the following structures situated in the compartment between the inferior and the superior fascia of the urogenital diaphragm.

b. Structures in the Urogenital diaphragm in the male

TRANSVERSE PERINEI PROFUNDUS MUSCLE-43:34
 SPHINCTER URETHRAE MEMBRANACEAE MUSCLE-43:35
 ARTERY OF THE PENIS-51:22
 ARTERY OF THE BULB OF URETHRA-51:24
 URETHRAL ARTERY-51:23
 DEEP ARTERY OF PENIS-51:26
 DORSAL ARTERY OF PENIS-51:27
 DORSAL VEIN OF THE PENIS-55:49
 DORSAL NERVE OF THE PENIS-71:24
 BULBOURETHRAL GLANDS-40:62
 BODY OF GLAND-40:63
 EXCRETORY DUCT-40:64
 MEMBRANOUS PART OF URETHRA-41:24
 SUPERIOR FASCIA OF UROGENITAL DIAPHRAGM-43:36

The following structures are in relationship to this fascia:

ARCULATE LIGAMENT OF THE PUBIS-20:61
 TRANSVERSE LIGAMENT OF THE PELVIS-43:38

c. Structures in the Urogenital diaphragm in the female

TRANSVERSE PERINEI PROFUNDUS MUSCLE-43:34
 SPHINCTER URETHRAE MEMBRANACEAE MUSCLE-43:35
 ARTERY OF CLITORIS-51:28
 ARTERY OF BULB OF VESTIBULI-51:25
 URETHRAL ARTERY-51:23
 DEEP ARTERY OF CLITORIS-51:29
 DORSAL ARTERY OF CLITORIS-51:30
 DORSAL VEINS OF THE CLITORIS-55:51
 DORSAL NERVE OF THE CLITORIS-71:25
 GLANDULA VESTIBULARIS MAJOR-42:58
 URETHRA-42:70
 SUPERIOR FASCIA OF THE UROGENITAL DIAPHRAGM-43:36

The following structures are in relationship to this fascia:

ARCULATE LIGAMENT OF THE PUBIS-20:61
 TRANSVERSE LIGAMENT OF THE PELVIS-43:38

4. Anal region

SUPERFICIAL PERINEAL FASCIA-43:45
 SPHINCTER AND EXTERNUS MUSCLE-43:34
 ANOCOCYGEAL LIGAMENT-43:25
 ISCHIORECTAL FOSSA-43:41

The fat in the ischiorectal fossa is removed in the demonstration of its contents.

INFERIOR HAEMORRHOIDAL NERVE-71:20
 INFERIOR HAEMORRHOIDAL ARTERY-51:18

The following structures are in relationship to the walls of the fossa:

INFERIOR FASCIA OF PELVIC DIAPHRAGM-43:32
 LEAVTOR ANI MUSCLE-43:21
 OBTURATOR FASCIA-43:40

The following nerve and artery are in relation to the obturator fascia:

PUDENDAL NERVE-71:19

INTERNAL PUDENDAL ARTERY-51:17

TENDINOUS ARCH OF THE LEVATOR ANI MUSCLE-43:22

Situated at the angle of junction of the obturator fascia and the inferior fascia of the pelvic diaphragm.

OBTURATOR INTERNUS MUSCLE-26:72

UROGENITAL DIAPHRAGM-43:33 Its posterior margin only.

GLUTEUS MAXIMUS MUSCLE-26:67 Its posterior or distal margin only.

SACROTUBEROUS LIGAMENT-20:49

III. Anterior Abdominal Wall

1. Fascia, cutaneous nerves and blood vessels

For the surface anatomy of the abdomen, see I:2.

Skin incisions: a) longitudinally along the anterior median line from the xiphoid process to the mons pubis (encircle the umbilicus; b) from the xiphoid process transversely around the thorax as far back as possible; c) from the mons pubis laterally along the line of the inguinal ligament to the anterior superior iliac spine and then posteriorly along the iliac crest as far back as possible.

SUPERFICIAL FASCIA-23:36

Divided into two layers toward the inferior part of the abdomen.

ANTERIOR CUTANEOUS RAMI OF INTERCOSTAL NERVES-70:8

ANTERIOR CUTANEOUS RAMUS OF ILIOHYPOGASTRIC NERVE-70:28

ILIOINGUINAL NERVE-70:29

LATERAL CUTANEOUS RAMI OF INTERCOSTAL NERVES-70:3

LATERAL CUTANEOUS RAMUS OF THE ILIOHYPOGASTRIC NERVE-70:27

SUPERFICIAL EPIGASTRIC ARTERY-51:39

SUPERFICIAL CIRCUMFLEX ILIAC ARTERY-51:40

EXTERNAL PUDENDAL ARTERIES-51:41

PARUMBILICAL VEINS-55:36

THORACOEPIGASTRIC VEINS-54:32

SUPERFICIAL EPIGASTRIC VEIN-55:65

2. Deeper structures of the anterior abdominal wall

a. Muscles and related structures

OBLIQUUS EXTERNUS ABDOMINIS MUSCLE-25:28

Exposed by the removal of the deep fascia, guarding at the same time against injury to its aponeurosis and the structures in relation to the subcutaneous inguinal ring.

The following structures are in relationship with the external oblique muscle:

TRIGONUM LUMBALE-25:48

INGUINAL LIGAMENT-25:41

LACUNAR LIGAMENT-25:42

SUBCUTANEOUS INGUINAL RING-25:44

SUPERIOR CRUS-25:45

INFERIOR CRUS-25:46

INTERCRURAL FIBERS-25:47

OBLIQUUS INTERNUS ABDOMINIS MUSCLE-25:29

Exposed by detaching the external oblique muscle at its origin, dividing the muscle at its insertion into the iliac crest, from the superior iliac spine carrying an incision medialward through the aponeurosis of the external oblique muscle to the lateral margin of the rectus abdominis muscle, and reflecting the external oblique muscle medialward.

CREMASTERIC MUSCLE-25:30**TRANSVERSUS ABDOMINIS MUSCLE-25:31**

Exposed by detaching the internal oblique muscle at its origin and reflecting the muscle toward its insertion, at the same time guarding the subjacent nerves and vessels, and leaving intact the inguinal canal and its contents.

LINEA SEMILUNARIS-25:49

The following nerves and vessels are in relationship throughout part of their course with the internal oblique and transversus abdominis muscles.

ANTERIOR RAMI OF THORACIC NERVES-70:1**ILIOHYPOGASTRIC NERVE-70:25****ILIOINGUINAL NERVE-70:29****INTERCOSTAL ARTERIES-49:59****LUMBAR ARTERIES-50:9****RECTUS ABDOMINIS MUSCLE-25:25**

Exposed by making a longitudinal incision through the aponeurotic sheath of the rectus abdominis muscle at a distance of about 3 cm. from the linea alba, the inferior end of each incision curving toward the symphysis pubis.

TENDINOUS INSCRIPTIONS-23:37**SHEATH OF THE RECTUS ABDOMINIS MUSCLE-25:39****LINEA SIMICIRCULARIS-25:40**

The following arteries are in relationship to the rectus sheath:

INFERIOR EPIGASTRIC ARTERY-51:32**SUPERIOR EPIGASTRIC ARTERY-48:47****PYRAMIDALIS MUSCLE-25:27****LINEA ALBA-25:34****FASCIA TRANSVERSALIS-25:50****DEEP CIRCUMFLEX ILIAC ARTERY-51:37****PERITONEUM-43:46**

Exposed by the removal of a small portion of the fascia transversalis.

b. Internal surface of the anterior abdominal wall

Exposed by beginning at a point just above the umbilicus making three incisions through abdominal wall, two of them extending to the anterior superior iliac spine on each side, and the third passing to the right of the umbilicus and 2 cm. to the right of the linea alba and terminating at the superior ramus of the pubic bone.

URACHUS-39:34**PLICA UMBILICALIS MEDIA-44:22****PLICA UMBILICALIS LATERALIS-44:23****PLICA EPIGASTRICA-44:24****FOVEA SUPRAVESICALIS-25:57****FOVEA INGUINALIS MEDIA-25:56****FOVEA INGUINALIS LATERALIS-25:55****ABDOMINAL INGUINAL RING-25:52**

1. The first part of the report deals with the general situation of the country.

2. It then goes on to discuss the various branches of industry.

3. The third part of the report is devoted to a description of the population.

4. Finally, the report concludes with a summary of the main results.

5. The following table shows the results of the various investigations.

6. It will be seen that the results are very interesting and important.

7. The following table shows the results of the various investigations.

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13. The following table shows the results of the various investigations.

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17. The following table shows the results of the various investigations.

18. It will be seen that the results are very interesting and important.

19. The following table shows the results of the various investigations.

20. It will be seen that the results are very interesting and important.

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22. It will be seen that the results are very interesting and important.

23. The following table shows the results of the various investigations.

24. It will be seen that the results are very interesting and important.

25. The following table shows the results of the various investigations.

26. It will be seen that the results are very interesting and important.

27. The following table shows the results of the various investigations.

3. Inguinal canal, scrotum, spermatic cord and testis

a. Inguinal canal-25:51

A demonstration of its boundaries involves the removal of the peritoneum from the anterior abdominal wall in the region of the inguinal canal.

FALX INGUINALIS-25:26

REFLEX INGUINAL LIGAMENT-25:43

b. Scrotum and spermatic cord

SCROTUM-41:31

The scrotal sac is opened and its contents exposed by making a longitudinal incision through the anterior wall of the scrotum on each side of the mid-line.

RAPHE OF THE SCROTUM-41:32

SEPTUM OF THE SCROTUM-41:33

TUNICA DARTOS-41:34

SPERMATIC CORD-40:37

CREMASTERIC FASCIA-40:47

CREMASTERIC MUSCLE-40:46

(VAGINAL PERITONEAL PROCESS)-40:38

TUNICA VAGINALIS COMMUNIS-40:45

DUCTUS DEFERENS-40:21

INTERNAL SPERMATIC ARTERY-50:52

EXTERNAL SPERMATIC ARTERY-51:35

DEFERENTIAL ARTERY-51:11

PAMPINIFORM PLEXUS OF VEINS-55:14

SPERMATIC VEIN-55:11

EXTERNAL SPERMATIC NERVE-70:35

DEFERENTIAL PLEXUS-72:42

LYMPHATICS

c. Testis-39:56

TUNICA VAGINALIS PROPRIA TESTIS-40:39

LAMINA PARIETALIS-40:40

LAMINA VISCERALIS-40:41

SINUS EPIDIDYIMIDIS-40:44

In exposing the testis an incision is made through the anterior part of the lamina parietalis of the tunica vaginalis propria.

SUPERIOR AND INFERIOR EXTREMITIES OF THE TESTIS-39:67, 68

LATERAL AND MEDIAL SURFACES-39:69, 70

ANTERIOR AND POSTERIOR MARGINS-39:71, 72

EPIDIDYMIS-40:9

HEAD, BODY AND TAIL OF SPIDIDYMIS-40:10-12

APPENDIX TESTIS-40:18

The following structures may be identified in cross section of the testis:

TENICA ALBUGINEA-39:73

MEDIASTINUM TESTIS-39:74

SEPTULA TESTIS-39:75

LOBULES-40:1

PARENCHYMA-40:2

For the structures of the penis see II:1b, 2a and V:3a.

1. Introduction

The purpose of this report is to provide a comprehensive overview of the current state of the project. It covers the background, objectives, and the progress made to date. The report is intended for the project steering committee and other stakeholders.

2. Objectives and Scope

The primary objective of the project is to develop a robust and scalable system that meets the requirements of the client. The scope of the project includes the design, development, testing, and deployment of the system. Key milestones and deliverables are outlined in the following sections.

3. Methodology

The project follows a structured methodology that includes requirements gathering, analysis, design, development, testing, and deployment. This approach ensures that the project is completed on time and within budget. The methodology is based on industry best practices and is tailored to the specific needs of the project.

IV. abdominal cavity, Peritoneum and Viscera1. Abdominal cavity and the peritoneuma. General characteristics of the abdominal cavity, viscera and peritoneum

In completing the opening of the abdominal cavity and demonstrating the abdominal and peritoneal relations of the following structures, the incision already made through the lower part of the anterior abdominal wall (III:2b) is extended upward from the umbilicus to the xiphoid process, passing just to the left of the mid-sagittal plane.

LIVER-34:43

GALL BLADDER-35:6

STOMACH-32:78

GREATER OMENTUM-43:70

SMALL INTESTINE-33:29

LARGE INTESTINE-33:61

LESSER OMENTUM-43:64

PERITONEUM-43:46

PARIETAL PERITONEUM-43:49

VISCERAL PERITONEUM-43:50

PERITONEAL CAVITY-43:51

b. Peritoneal folds and fossa in relation to the small and large intestine

MESENTERY-43:53

ROOT OF MESENTERY-43:54

DUODENOJEJUNAL RECESS-44:9

DUODENOJEJUNAL FOLD-44:10

GREATER OMENTUM-43:70

MESOCOLON-43:56

TRANSVERSE MESOCOLON-43:57

ASCENDING MESOCOLON-43:58

DESCENDING MESOCOLON-43:59

SIGMOID MESOCOLON-43:60

MESORECTUM-43:61

MESENTERY OF THE VERMIFORM PROCESS-43:62

ILEOCAECAL FOLD-44:15

SUPERIOR ILEOCAECAL RECESS-44:13

INFERIOR ILEOCAECAL RECESS-44:14

CAECAL FOLD-44:18

CAECAL FOSSA-44:16

RETROCAECAL RECESS-44:17

PARACOLIC RECESS-44:19

PHRENICOCOLIC LIGAMENT-44:1

c. Peritoneal ligaments in relation to the liver, stomach and spleen

FALCIFORM LIGAMENT OF LIVER-44:3

LIGAMENTUM TERES OF THE LIVER-34:56

CORONARY LIGAMENT OF THE LIVER-44:4

RIGHT AND LEFT TRIANGULAR LIGAMENTS-44:5, 6

LESSER OMENTUM-43:64

HEPATOGASTRIC LIGAMENT-43:65

HEPATODUODENAL LIGAMENT-43:66

GASTROSPLENIC LIGAMENT-43:68

PHRENICOSPLENIC LIGAMENT-44:2

MEMORANDUM FOR THE SECRETARY

DATE: [Illegible]

TO: [Illegible]

FROM: [Illegible]

[Illegible body text]

MEMORANDUM FOR THE SECRETARY

DATE: [Illegible]

TO: [Illegible]

FROM: [Illegible]

[Illegible body text]

MEMORANDUM FOR THE SECRETARY

DATE: [Illegible]

TO: [Illegible]

FROM: [Illegible]

[Illegible body text]

d. Omental bursa-43:71

FORAMEN EPIPLOICUM-43:77

The extend and following subdivisions of the omental bursa may be exposed by inserting the finger through the foramen epiploicum:

VESTIBULE OF BURSA-43:72

SUPERIOR OMENTAL RECESS-43:73

INFERIOR OMENTAL RECESS-43:74

SPLENIC RECESS-43:75

e. Relations of the pelvic peritoneum

RECTOVESICAL EXCAVATION OR POUCH-44:38

PUBOVESICAL FOLD-44:25

TRANSVERSE VESICAL FOLD-44:26

The following structures relate to the female pelvis only:

BROAD LIGAMENT OF THE UTERUS-44:29

RECTOUTERINE EXCAVATION OR POUCH-44:36

VESICOUTERINE EXCAVATION OR POUCH-44:37

f. Peritoneal relations in general

The relations of the peritoneum in general may be traced in cross and sagittal sections of the abdomen, Some of the peritoneal relations of such retroperitoneal organs as the kidney, duodenum and pancreas may be determined by palpation.

2. Mesenteric blood vessels, nerves and lymphatics

SUPERIOR MESENTERIC ARTERY-50:36 Not including its origin.

Exposed by removing the right layer of peritoneum of the mesentery, the inferior layer of the transverse mseeolon, and the peritoneum of the posterior abdominal wall between the root of the mesentery and the ascending colon.

INTESTINAL ARTERIES-50:37

JEJUNAL ARTERIES-50:39

ILEAL ARTERIES-50:40

INFERIOR PANCREATICUDUODENAL ARTERY-50:38

ILEOCOLIC ARTERY-50:41

APPENDICULAR ARTERY-50:42

RIGHT COLIC ARTERY-50:43

MIDDLE COLIC ARTERY-50:44

SUPERIOR MESENTERIC VEIN-55:17

The tributaries of the superior mesenteric vein-55:18-25, consist of vessels corresponding to the branches of the superior mesenteric artery, together with veins from the stomach and pancreas.

SUPERIOR MESENTERIC SYMPATHETIC PLEXUS-72:32

MESENTERIC LYMPH GLANDS-56:64

MESOCOLIC LYMPH GLANDS-56:65

INFERIOR MESENTERIC ARTERY-50:45

Demonstrated by removing the peritoneum from the posterior abdominal wall between the root of the mesentery and the descending and iliac colon.

LEFT COLIC ARTERY-50:46

SIGMOID ARTERIES-50:47

SUPERIOR HAEMORRHOIDAL ARTERY-50:48 Exclusive of its termination.

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1. The purpose of this document is to provide a comprehensive overview of the current status of the project and to identify the key challenges that must be addressed in order to ensure its successful completion.

2. The project has made significant progress since its inception, with several key milestones having been achieved. However, there are a number of areas where the schedule is slipping, and it is essential that these issues be resolved as a matter of priority.

3. The following table provides a detailed breakdown of the project's progress to date, highlighting the areas where the most significant challenges are being faced. It is clear that the most pressing issues are related to resource allocation and the timely delivery of critical components.

4. In order to address these challenges, it is recommended that the following actions be taken as a matter of urgency:

- Re-evaluate the resource allocation for the most critical tasks, ensuring that sufficient personnel and equipment are available to meet the deadlines.
- Implement a strict control system to monitor the progress of all critical components, ensuring that any delays are identified and addressed immediately.
- Establish a clear communication protocol to ensure that all team members are kept up-to-date on the project's status and any changes to the schedule.

5. It is essential that these actions be implemented as a matter of priority, as any further delays could have a significant impact on the overall success of the project. The project manager is responsible for ensuring that these actions are carried out effectively and that the project remains on track.

6. The project team is committed to working hard to overcome these challenges and to ensuring that the project is completed on time and to the highest possible quality. It is hoped that these recommendations will be accepted and that the project will be a success.

7. The project manager will continue to monitor the project's progress closely and will report any further developments to the steering committee. It is requested that the committee continue to provide support and guidance as the project progresses.

8. The project manager is confident that the project will be completed successfully and that the results will be of high quality.

INFERIOR MESENTERIC VEIN-55:26
 LEFT COLIC VEIN-55:27
 SIGMOID VEINS-55:28
 SUPERIOR HAEMORRHOIDAL VEIN-55:29

Participates in an important anastomosis between the systematic and portal circulation.

INFERIOR MESENTERIC SYMPATHETIC PLEXUS-72:35

3. Mesenterial small intestine and the large intestine

a. Mesenterial small intestine-33:58

JEJUNUM-33:59

ILEUM-33:60

The following structures can best be demonstrated in the intestine which has been removed from the abdomen, opened along its mesenteric border and its contents washed out. For its removal, the small intestine may be divided between ligatures about 5 cm. below the duodenojejunal flexure and about 10 cm. above the ileocaecal junction, and its connections severed with the mesentery and mesenterial blood vessels.

TUNICA SEROSA-33:30

TUNICA MUSCULARIS-33:31

LONGITUDINAL LAYER-33:32

CIRCULAR LAYER-33:33

TELA SUBMUCOSA-33:34

TUNICA MUCOSA-33:35, 36

PLICAE CIRCULARES-33:37

INTESTINAL VITILLI-33:38 Demonstrated with a hand lens.

INTESTINAL GLANDS-33:40 Demonstrated with a hand lens.

AGGREGATED LYMPH NODULES-33:41

SOLITARY LYMPH NODULES-33:40

CHYME-33:42

CHYLE-33:43

INTESTINAL JUICE-33:44

b. Large intestine-33:61

CAECUM-33:62

VERIFORM PROCESS-33:67

COLON-33:70

ASCENDING COLON-33:71

RIGHT COLIC FLEXURE-33:72

TRANSVERSE COLON-33:73

LEFT COLIC FLEXURE-33:74

DESCENDING COLON-33:75

SIGMOID COLON-33:76

TAENIAE COLI-33:82

TAENIA MESOCOLICA-34:1

TAENIA OMENTALIS-34:2

TAENIA LIBERA-34:3

HAUSTRA COLI-33:73

APPENDICES EPIPLOICAE-33:80

The following structures can be demonstrated to best advantage after the large intestine has been divided between ligatures at the junction of the sigmoid colon with the rectum, removed from the abdomen and its contents washed out.

VALVULA COLI-33:63

INFERIOR AND SUPERIOR LIPS-33:64, 65

FRENULA OF THE VALVE OF THE COLON-33:66

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REPRODUCED BY THE OFFICE OF THE COMMISSIONER

(VALVE OF THE VERMIFORM PROCESS)-33:68
 AGGREGATED NODULES OF THE VERMIFORM PROCESS-33:69
 TUNICA SEROSA-33:79
 TUNICA MUSCULARIS-33:81
 TUNICA SUBMUCOSA-34:4
 TUNICA MUCOSA-34:5, 6
 INTESTINAL GLANDS-34:7
 SOLITARY LYMPHATIC NODULES-34:8

4. Structures in relation to the walls of the omental bursa

a. Biliary ducts and vessels in the lesser omentum

The exposure of the structures in the lesser omentum may be facilitated by the removal of the greater part of the left lobe of the liver. To this end an incision may be made through the left lobe in an anterior-posterior direction, beginning just at the left of the falciform ligament and terminating near the left margin of the fossa for the ductus venosus (keeping the detached part of the liver wrapped in a damp cloth for later study).

COMMON BILE DUCT-35:16
 HEPATIC DUCT-35:3
 CYSTIC DUCT-35:10
 PORTAL VEIN-55:15
 HEPATIC ARTERY-50:19
 RIGHT GASTRIC ARTERY-50:20
 PROPER HEPATIC ARTERY-50:21
 RIGHT RAMUS-50:22
 CYSTIC ARTERY-50:23
 LEFT RAMUS-50:24
 LEFT GASTRIC ARTERY-50:17

b. Remains vessels in relation to the walls of the omental bursa

GASTRODUODENAL ARTERY-50:25
 RIGHT GASTROEPIPLOIC ARTERY-50:29
 In exposing the following structures tiny remaining parts of the lesser omentum are removed, the right gastric artery, right gastroepiploic artery and stomach are divided just to the left of the pylorus, the stomach displaced toward the left side, and the posterior wall of the lesser omental bursa carefully removed, but guarded against undue displacement of the pancreas.
 SUPERIOR PANCREATOCODUODENAL ARTERY-50:26
 COELIAC ARTERY-50:16
 LEFT GASTRIC ARTERY-50:17
 HEPATIC ARTERY-50:19 For its branches see the preceding section, 4a.
 SPLENIC ARTERY-50:31
 PANCREATIC RAMI-50:32
 LEFT GASTROEPIPLOIC ARTERY-50:33
 SHORT GASTRIC ARTERIES-50:34
 SPLENIC RAMI-50:35
 PORTAL VEIN-55:15
 CORONARY VEIN OF THE STOMACH-55:16
 SUPERIOR MESENTERIC VEIN-55:17
 INFERIOR MESENTERIC VEIN-55:26
 SPLENIC VEIN-55:30
 LEFT GASTROEPIPLOIC VEIN-55:32
 CYSTIC VEIN-55:33

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PARUMBILICAL VEINS-55:36

The portal vein also participates in important oesophageal, rectal, peritoneal and umbilical anastomoses.

5. Duodenum and pancreasa. Duodenum-33:45

PARS SUPERIOR-33:46

PARS DESCENDENS-33:47

PARS HORIZONTALIS-33:49

PARS ASCENDENS-33:50

SUSPENSORY MUSCLE OF THE DUODENUM-33:54

DUODENAL PAPILLA-33:56

Exposed by making a longitudinal incision through the anterior wall of the duodenum.

LONGITUDINAL FOLD OF DUODENUM-33:55

b. Pancreas-34:26

HEAD OF PANCREAS-34:27

UNCINATE PROCESS-34:28

NOTCH OF THE PANCREAS-34:29

BODY OF PANCREAS-34:30

ANTERIOR, POSTERIOR AND INFERIOR SURFACES-34:31-33

SUPERIOR, ANTERIOR AND POSTERIOR MARGINS-34:34-36

OMENTAL TUBER-34:37

TAIL OF PANCREAS-34:38

PANCREATIC DUCT-34:39

ACCESSORY PANCREATIC DUCT-34:40

(ACCESSORY PANCREAS)-34:41

6. Stomach and spleena. Stomach-32:78

VAGUS NERVE-68:22 In its relation to the stomach and adjacent organs.

ANTERIOR AND POSTERIOR GASTRIC PLEXUSES-68:51, 52

HEPATIC RAMI-68:53

COELIAC RAMI-68:54

STOMACH-32:78

ANTERIOR AND POSTERIOR WALLS OF STOMACH-32:79, 80

GREATER AND LESSER CURVATURES OF STOMACH-32:1, 2

CARDIA-33:3

FUNDUS OF STOMACH-38:4

BODY OF STOMACH-33:5

PYLORUS-33:6

CARDIAC PART-33:7

PYLORIC PART-33:8

(CARDIAC ANTRUM)-33:9

PYLORIC ANTRUM-33:10

The exposure of the following structures is facilitated by dividing the abdominal part of the oesophagus, removing the stomach, and opening the stomach by an incision along its greater curvature.

SEROUS COAT-33:11

MUSCULAR COAT-33:12

LONGITUDINAL LAYER-33:13

CIRCULAR LAYER-33:15

OBLIQUE FIBERS-33:17

SPHINCTER MUSCLE OF PYLORUS-33:16

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PYLORIC VALVE-33:18
 TELA SUBMUCOSA-33:19
 TUNICA MUCOSA-33:20
 GASTRIC PITS-33:24

b. Spleen-35:18

DIAPHRAGMATIC SURFACE-35:19
 RENAL SURFACE-35:20
 GASTRIC SURFACE-35:21
 SUPERIOR AND INFERIOR EXTREMITIES-35:22, 23
 POSTERIOR AND ANTERIOR MARGINS-35:34, 25
 TUNICA SEROSA-35:27
 TUNICA ALBUGINEA-35:28
 SPLENIC PULP-35:30
 SPLENIC RAMI OF SPLENIC ARTERY-35:31
 (ACCESSORY SPLEEN)-35:34

7. Sympathetic plexuses in relation to the coeliac ganglion and coeliac

plexus

COELIAC PLEXUS-72:19
 COELIAC GANGLION-72:20
 If the thorax has been previously dissected, these ganglia may be conveniently located by tracing the great splanchnic nerves down to their junction with the ganglia.
 SUPERIOR GASTRIC PLEXUS-72:26
 HEPATIC PLEXUS-72:24
 INFERIOR GASTRIC PLEXUS-72:27
 SPLENIC PLEXUS-72:25
 RENAL PLEXUS-72:29
 SUPRARENAL PLEXUS-72:28
 PHRENIC PLEXUS-72:22
 SUPERIOR MESENTERIC PLEXUS-72:32
 ABDOMINAL AORTIC PLEXUS-72:18

8. Liver-34:43

For the ligaments and peritoneal relation of the liver, see IV:1c
 The removal of the liver involves the following incisions: a) division of the portal vein at the level of the foramen epiploicum; b) raising the liver as much as possible, cutting through the inferior vena cava vein at the point where it comes in contact with the inferior aspect of the liver and to the right of the inferior vena cava cutting through the inferior layer of the coronary ligament; c) in connection with the superior and posterior aspects of the liver dividing the ligamentum teres and the falciform ligament, the right and left triangular ligaments and superior layer of the coronary ligament; d) separating the posterior surface of the liver from the diaphragm and make a second cut through the inferior vena cava just below the diaphragm and completing the detachment of the organ.

RIGHT LOBE OF LIVER-34:59
 QUADRATE LOBE OF LIVER-34:60
 CAUDATE LOBE OF LIVER-34:61
 PAPILLARY PROCESS-34:62
 CAUDATE PROCESS-34:63
 LEFT LOBE OF LIVER-34:64
 RIGHT SAGITTAL FOSSA-34:49

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FOSSA FOR THE GALL BLADDER-34:50
 FOSSA FOR VENA CAVA-34:51
 LEFT SAGITTAL FOSSA-34:52
 FOSSA FOR UMBILICAL VEIN-34:53
 FOSSA FOR DUCTUS VENOSUS-34:54
 ANTERIOR MARGIN-34:47
 INCISURA UMBILICALIS-34:48
 SUPERIOR SURFACE-34:44
 POSTERIOR SURFACE-34:45
 OESOPHAGEAL IMPRESSION-34:68
 SUPRAHEPATIC IMPRESSION-34:73
 INFERIOR SURFACE-34:45
 PORTA HEPATIS-34:58
 OMENTAL TUBER-34:67
 GASTRIC IMPRESSION-34:69
 DUODENAL IMPRESSION-34:70
 COLIC IMPRESSION-34:71
 RENAL IMPRESSION-34:72

The following hepatic structures may be demonstrated in cut surfaces of the liver, some of them requiring a hand lens or microscope for their identification.

HEPATIC LOBULES-34:74
 FIBROUS CAPSULE-34:75
 INTERLOBULAR ARTERIES-34:76
 INTERLOBULAR VEINS-34:77
 CENTRAL VEINS-34:78
 BILE DUCTS-35:1
 INTERLOBULAR DUCTS-35:2
 VASA ABERRANTIA HEPATIS-35:3
 BILE-35:5
 GALL BLADDER-35:6
 FUNDUS OF GALL BLADDER-35:7
 BODY OF GALL BLADDER-35:8
 NECK OF GALL BLADDER-35:9
 CYSTIC DUCT-35:10
 SPIRAL VALVE-35:15

The following structures require a hand lens or a microscope for their adequate demonstration:

TUNICA SEROSA OF GALL BLADDER-35:11
 TUNICA MUSCULARIS OF GALL BLADDER-35:12
 TUNICA MUCOSA OF GALL BLADDER-35:13
 PLICAE TUNICAE MUCOSAE OF GALL BLADDER-35:14
 GLANDULAE MUCOSAE BILIOSAE-35:17

9. Suprarenal gland, kidney and ureter

a. Suprarenal gland-39:52

HILUS OF SUPRARENAL GLAND-39:55
 ANTERIOR AND POSTERIOR SURFACES-39:56, 57
 BASE-39:58
 APEX-39:59
 SUPERIOR AND MEDIAL MARGINS-39:60, 61
 (ACCESSORY SUPRARENAL GLANDS)-39:63
 CORTICAL SUBSTANCE-39:53
 MEDULLARY SUBSTANCE-39:54
 CENTRAL VEIN-39:62

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b. Vascular supply of the kidney and suprarenal glands

Exposed by removing the kidneys and suprarenal gland, (before doing this however, advantage may be taken of the opportunity of determining the relations of the kidney to these organs and adjacent structures).

- RENAL ARTERY-50:50 cf. also-39:4
- INFERIOR SUPRARENAL ARTERY-50:51
- MIDDLE SUPRARENAL ARTERY-50:49
- RENAL VEINS-55:9
- SUPRARENAL VEINS-55:10

c. Kidney-38:37

- ADIPOSE CAPSULE-38:49
- LATERAL MARGIN-38:38
- MEDIAL MARGIN-38:39
- RENAL HILUS-38:40
- RENAL SINUS-38:41
- ANTERIOR AND POSTERIOR SURFACES-38:42, 43
- SUPERIOR AND INFERIOR EXTREMITIES-38:44, 45
- (HEPATIC IMPRESSION)-38:46
- (GASTRIC IMPRESSION)-38:47

The following may be demonstrated to best advantage by cutting through the kidney along its lateral margin and dividing the organ into symmetrical halves:

- TUNICA FIBROSA-38:50
- CORTICAL SUBSTANCE-38:55
- MEDULLARY SUBSTANCE-38:56
- RENAL PYRAMIDS-38:58
- RENAL PAPILLAE-38:60
- RENAL COLUMNS-38:63
- RENAL PELVIS-38:70
- RENAL CALCYEBES-38:71

d. Ureter-39:19

- ABDOMINAL PART-39:20

10. Diaphragm

DIAPHRAGM-25:9

- LUMBAR PART-25:10
- MEDIAL CRUS-25:11
- INTERMEDIATE CRUS-25:12
- LATERAL CRUS-25:13
- COSTAL PART-25:14
- STERNAL PART-25:15
- AORTIC OPENING-25:16
- ESOPHAGEAL OPENING-25:17
- CENTRAL TENDON-25:18
- OPENING FOR VENA CAVA-25:19
- MEDIAL LUMBOCOSTAL ARCH-25:20
- LATERAL LUMBOCOSTAL ARCH-25:21

V. Structures in Relation to the Posterior Abdominal Wall

1. Blood-vessels and lymphatics

a. Arteries

ABDOMINAL AORTA-50:5

PARIETAL BRANCHES-50:6

INFERIOR PHRENIC ARTERY-50:7

SUPERIOR SUPRARENAL RAMI-50:8

LUMBAR ARTERIES-50:9-11

These arteries pass posterior to the sympathetic trunk which together with other nerves of the abdominal wall should be guarded from injury.

MIDDLE SACRAL ARTERY-50:12 Origin only.

VISCERAL BRANCHES-50:15

For the rami of the first five of the following arteries see IV:2, 4b and 9b.

COELIAC ARTERY-50:16

SUPERIOR MESENTERIC ARTERY-50:36

INFERIOR MESENTERIC ARTERY-50:45

MIDDLE SUPRARENAL ARTERY-50:49

RENAL ARTERIES-50:50

INTERNAL SPERMATIC ARTERIES-50:52

TESTICULAR ARTERY-50:53 In the male.

OVARIAN ARTERY-50:54 In the female.

COMMON ILIAC ARTERIES-50:55

HYPOGASTRIC ARTERY-50:56 Origin only.

EXTERNAL ILIAC ARTERY-51:31

INFERIOR EPIGASTRIC ARTERY-51:32

DEEP CIRCUMFLEX ILIAC ARTERY-51:37

b. Veins and lymphatics

INFERIOR VENA CAVA-55:3

PARIETAL ROOTS-55:4

INFERIOR PHRENIC VEIN-55:5

LUMBAR VEINS-55:6

VISCERAL ROOTS-55:7

HEPATIC VEINS-55:8

RENAL VEINS-55:9

SUPRARENAL VEINS-55:10

SPERMATIC VEIN-55:11

TESTICULAR VEIN-55:12

OVARIAN VEIN-55:13

COMMON ILIAC VEINS-55:37

MIDDLE SACRAL VEIN-55:38

HYPOGASTRIC VEIN-55:39 Termination only.

EXTERNAL ILIAC VEINS-55:58

INFERIOR EPIGASTRIC VEINS-55:59

DEEP CIRCUMFLEX ILIAC VEIN-55:50

CISTERNA CHYLI-56:28

INTESTINAL LYMPHATIC TRUNK-56:27

LUMBAR LYMPHATIC TRUNKS-56:26

ILIAC LYMPH GLANDS-56:57

LUMBAR LYMPH GLANDS-56:58

COELIAC LYMPH GLANDS-56:59

AZYGOS VEIN-56:53

HEMIAZYGOS VEIN-56:54

2. Fascia and muscles of posterior abdominal wall

ILIAC FASCIA-27:55

QUADRATUS LUMBORUM MUSCLE-25:32

ILIOPSOAS MUSCLE--26:63

ILIAC MUSCLE--26:64

PSOAS MAJOR MUSCLE-26:65

In the demonstration of this muscle the following nerves are encountered and should be guarded from injury: the sympathetic trunk, medial to it, the genitofemoral nerve in relation to its anterior surface, the ilioinguinal and lateral femoral cutaneous nerves in relation to its lateral margin, and the femoral nerve, situated between the psoas major and iliacus muscles.

PSOAS MINOR MUSCLE-26:66

3. Nerves of the posterior abdominal wall

ABDOMINAL PART OF THE SYMPATHETIC TRUNK-72:15

LUMBAR GANGLION-72:16

RAMI COMMUNICANTES-68:72

TWELFTH INTERCOSTAL NERVE-70:1

LUMBAR NERVES-70:11

In demonstrating the lumbar nerves and lumbar plexus the psoas major muscle is removed by blunt dissection.

LUMBAR PLEXUS-70:23

MUSCULAR RAMI-70:24

ILIOHYPOGASTRIC NERVE-70:25

ILIOINGUINAL NERVE-70:29

GENITOFEMORAL NERVE-70:33

LUMBOINGUINAL NERVE-70:34

EXTERNAL SPERMATIC NERVE-70:35

LATERAL FEMORAL CUTANEOUS NERVE-70:36

FEMORAL NERVE-70:41

OBTURATOR NERVE-70:37

LUMBOSACRAL TRUNK-70:22 Origin only.

VI. PELVIS

1. Osteology

COXAL BONE-15:7

OBTURATOR FORAMEN-15:8

ILIAC BONE-15:14

ILIAC CREST-15:18

ILIAC FOSSA-15:31

ISCHIAL BONE-15:32

SUPERIOR RAMUS OF THE ISCHIAL BONE-15:34

INFERIOR RAMUS OF THE ISCHIAL BONE-15:35

PUBIC BONE-15:40

OBTURATOR SULCUS-15:46

INFERIOR AND SUPERIOR RAMI OF THE PUBIC BONE-15:49, 50

SACRUM-7:5

PELVIC SURFACE-7:7

PROMONTORY-7:10

ANTERIOR SACRAL FORAMINA-7:15

APEX OF SACRAL BONE-7:24

COCCYX-7:25

PELVIS-15:52

SYMPHYSIS OF PUBIC BONE-15:53

PUBIC ARCH-15:54
 MAJOR PELVIS-15:56
 MINOR PELVIS-15:57
 LINEA TERMINALIS-15:58
 SUPERIOR APERTURE OF THE PELVIS-15:62
 INFERIOR APERTURE OF THE PELVIS-15:63
 PELVIC AXIS-15:64
 CONJUGATE, TRANSVERSE AND OBLIQUE DIAMETERS-15:65-67
 PELVIC INCLINATION-15:68

2. Peritoneum and fascia in relation to the pelvis

a. Peritoneal folds in the male pelvis

TRANSVERSE VESICAL FOLD-44:26
 PUBOVESICAL FOLD-44:25
 MESORECTUM-43:61

b. Peritoneum of the female pelvis

RECTOUTERINE FOLDS-44:35
 RECTOUTERINE EXCAVATION-44:36
 VESICOUTERINE EXCAVATION-44:37
 FOSSA OVARICA-44:33
 BROAD LIGAMENT OF UTERUS-44:29
 MESOMETRIUM-44:30
 MESOSALPINX-44:31
 MESOVARIUM-44:32
 SUSPENSORY LIGAMENT OF THE OVARY-44:34

c. Fascia

PELVIC FASCIA-43:26

Demonstrated by removing the pelvic peritoneum by blunt dissection, guarding at the same time against injury to nerves and vessels.

SUPERIOR FASCIA OF PELVIC DIAPHRAGM-43:28
 TENDINOUS ARCH OF PELVIC FASCIA-43:29
 ENDOPELVIC FASCIA-43:27

MIDDLE PUBOPROSTATIC LIGAMENT-43:30 In the male.
 MIDDLE PUBOVESICAL LIGAMENT-43:30 In the female.
 LATERAL PUBOPROSTATIC LIGAMENT-43:31 In the male.
 LATERAL PUBOVESICAL LIGAMENT-43:31 In the female.

The demonstration of the anterior relations of the pelvic fascia is completed and the subsequent exposure of pelvic viscera facilitated by making the following dissections: a) detaching the suspensory ligament of the penis from the front of the symphysis, guarding at the same time against injury to the dorsal vein of the penis; b) detaching all muscles and fascia from the anterior surface of each pubic bone over a region extending about 2.5 cm. laterally from the symphysis pubis; c) sawing through the pubic bones by an incision on each side of the symphysis pubis extending from the pubic tubercle to a point just below the attachment of the arcuate ligament of the pubis; and d) detaching the pelvic fascia from the posterior surface of this isolated segment of bone and carefully removing the bone (retaining the latter for later reference).

INFERIOR FASCIA OF THE PELVIC DIAPHRAGM-43:32
 OBTURATOR FASCIA-43:40
 TENDINOUS ARCH OF THE LEVATOR ANI MUSCLE-43:22

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SUPERIOR FASCIA OF THE UROGENITAL DIAPHRAGM-43:36

3. Pelvic visceraa. In the male pelvis

URINARY BLADDER-39:29

VERTEX OF BLADDER-39:30

BODY OF BLADDER-39:31

FUNDUS OF BLADDER-39:32

URACHUS^x-39:34

The following structures are exposed by an incision beginning at the vertex of the bladder and extending through its wall in an anterior-posterior direction in the line of its median plane.

TUNICA SEROSA-39:35

TUNICA MUSCULARIS-39:36-39

TELA SUBMUCOSA-39:42

TUNICA MUCOSA-39:43

TRIGONE OF THE BLADDER-39:46

UVULA OF THE BLADDER-39:47

URETERAL FOLD-39:48

ORIFICE OF URETER-39:49

INTERNAL URETHRAL ORIFICE-39:50

URETHRAL RING-39:51

MALE URETHRA-41:19

Its internal structure is exposed by introducing a blunt pointed scissors into the internal urethral orifice and dividing the dorsal wall of the urethral canal throughout its entire extent.

PROSTATIC PART-41:20

URETHRAL CREST-41:21

SEMINAL HILLOCK-41:22

PROSTATIC UTRICLE-41:23

EJACULATORY DUCTS-40:30 Their openings only.

PROSTATIC DUCTS-40:59 Their openings only.

MEMBRANOUS PART-41:24

CAVERNOUS PART-41:25

EXCRETORY DUCTS OF BULBOURETHRAL GLANDS-40:64

NAVICULAR FOSSA OF URETHRA-41:26

(VALVULA FOSSAE NAVICULARIS)-41:27

EXTERNAL URETHRAL ORIFICE-41:28

URETHRAL LACUNAE-41:29

PENIS-40:66

The following structures are demonstrated in cross sections of the penis. For other structures of penis see II:1b and 2a.

CORPUS CAVERNOSUM PENIS-41:4

CORPUS CAVERNOSUM URETHRAE-41:5

TUNICA ALBUGINEA-41:5

SEPTUM PENIS-41:10

TRABECULAE CORPORUM CAVERNOSORUM-41:11

CAVERNAE CORPORUM CAVERNOSORUM-41:12

The demonstration of the remaining pelvic structures may be facilitated by detaching the fifth lumbar vertebrae from the sacrum, dividing the sacrum, coccyx, and any remaining soft structures in the median sagittal plane, and separating the two halves of the pelvis.

RECTUM-34:9

SACRAL FLEXURE-34:10

PERINEAL FLEXURE-34:11

RECTAL AMPULLA-34:12

MUCOUS MEMBRANE-34:17

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TRANSVERSE RECTAL FOLDS-34:21
 RECTOCOCCYGEAL MUSCLE-34:15
 ANAL PART OF RECTUM-34:22
 RECTAL COLUMNS-34:23
 RECTAL SINUSES-34:24
 HEMORRHOIDAL RING-34:25
 SPHINCTER AND INTERNUS MUSCLE-34:14
 PELVIC PART OF URETER-39:21
 PROSTATE-40:50
 BASE-40:51
 APEX-40:52
 ANTERIOR AND POSTERIOR SURFACES-40:53, 54
 RIGHT AND LEFT LOBES-40:55
 ISTHMUS-40:56
 (MIDDLE LOBE)-40:57
 SEMINAL VESICLES-40:31
 BODY OF SEMINAL VESICLE-40:32
 EXCRETORY DUCT-40:36
 DUCTUS DEFERENS-40:21
 AMPULLA OF DUCTUS DEFERENS-40:22
 DIVERTICULA OF AMPULLA-40:23
 EJACULATORY DUCT-40:30

b. In the female pelvis

The demonstration of the following structures may be facilitated by detaching the fifth lumbar vertebrae from the sacrum, dividing the sacrum, coccyx, symphysis pubis and any remaining soft structures, in the median sagittal plane and separating the two halves of the pelvis.

PERITONEUM-43:46
 For structures relative to the peritoneum in the female pelvis, see VI:2b.
 PELVIC FASCIA-43:26 cf. VI:2c.
 URINARY BLADDER-39:29
 For structures relative to the urinary bladder, see VI:3a.
 FEMALE URETHRA-42:70
 EXTERNAL URETHRAL ORIFICE-42:71
 CRISTA URETHRALIS-43:2
 PELVIC PART OF URETER-39:21
 Ovary-41:36
 HILUS-41:37
 MEDIAL AND LATERAL SURFACES-41:38, 39
 FREE MARGIN-41:40
 MESOVARIAN MARGIN-41:41
 TUBAL EXTREMITY-41:42
 UTERINE EXTREMITY-41:43
 OVARIAN LIGAMENT-41:56
 CORPUS LUTEUM-41:54
 CORPUS ALBICANS-41:55
 PAROOPHORON-42:43
 EPOOPHORON-42:39
 UTERINE TUBE-41:57
 OSTIUM ABDOMINALE-41:58
 INFUNDIBULUM-41:59
 FIMBRIAE-41:60
 FIMBRIA OVARICA-41:61
 AMPULLA-41:62

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- ISTHMIJUS-41:63
- UTERUS-41:76
 - BODY OF UTERUS-41:77
 - FUNDUS-42:1
 - LATERAL MARGIN-42:2
 - VESICAL SURFACE-43:3
 - INTESTINAL SURFACE-42:4
 - UTERINE CAVITY-42:5
 - CERVIX-42:7
 - SUPRAVAGINAL PART-42:8
 - VAGINAL PART-42:9
 - EXTERNAL ORIFICE OF UTERUS-42:10
 - ANTERIOR LIP-42:11
 - POSTERIOR LIP-42:12
 - CANAL OF THE CERVIX-42:13
 - INTERNAL ORIFICE OF THE UTERUS-42:6
 - LIGAMENTUM TERES-42:23
- VAGINA-42:25
 - FORNIX OF VAGINA-42:26
 - ANTERIOR AND POSTERIOR WALLS-42:27, 28
 - HYMEN-42:29
 - HYMENEAL CARUNCLES-42:30
- RECTUM-34:9
 - For its structural characteristics, see VI:3a.

4. Pelvic blood vessels (male and female)

In the following tabulation vessels which are either male or female only are so indicated. All other vessels are common to both sexes.

a. Arteries

- HYPOGASTRIC ARTERY-50:56
 - PARIETAL RAMI OF THE HYPOGASTRIC ARTERY-50:57
 - ILIO LUMBAR ARTERY-50:58
 - LUMBAR RAMUS^{xx}-50:59
 - SPINAL RAMUS^x-50:60
 - ILIAC RAMUS^{xx}-50:61
 - LATERAL SACRAL ARTERY-50:62
 - SPINAL RAMI^x-50:63
 - OBTURATOR ARTERY-50:64
 - PUBIC RAMUS-50:65
 - SUPERIOR GLUTEAL ARTERY-51:1
 - INFERIOR GLUTEAL ARTERY-51:4
 - VISCERAL RAMI OF THE HYPOGASTRIC ARTERY-51:6
 - UMBILICAL ARTERY-51:7
 - SUPERIOR VESICAL ARTERIES^{xx}-51:8
 - ✓ LATERAL UMBILICAL LIGAMENT }^{xx}-51:9
 - INFERIOR VESICAL ARTERY-51:10
 - DEFERENTIAL ARTERY^{xx}-51:11
 - UTERINE ARTERY-51:12 In the female only.
 - VAGINAL ARTERY-51:13
 - OVARIAN RAMUS-51:14
 - TUBAL RAMUS-51:15
 - OVARIAN ARTERY-50:54 In the female only.
 - MIDDLE HEMORRHOIDAL ARTERY-51:16
 - INTERNAL PUDENDAL ARTERY-51:17
 - For its perineal rami in both male and female see II:2-4.

SUPERIOR HEMORRHOIDAL ARTERY-50:48
 MIDDLE SACRAL ARTERY-50:12
 LOWEST LUMBAR ARTERY^{XX}-50:13
 GLONUS COCCYGEUM^{XX}-50:14

b. Veins of the pelvis

HYPOGASTRIC VEIN-55:39

The tributaries of the hypogastric vein-55:40, 49:53, 55-57, correspond to a large degree with the branches of the hypogastric artery.

HEMORRHOIDAL PLEXUS-55:46

VESICAL PLEXUS^{XX}-55:47

PUDENDAL PLEXUS^{XX}-55:48

UTEROVAGINAL PLEXUS^{XX}-55:54 In the female only.

MIDDLE SACRAL VEIN^{XX}-55:38

5. Pelvic muscles and nerves

Exposed by displacing the viscera from the lateral pelvic walls and removing any remains of the superior fascia of the pelvic diaphragm-43:28, guarding at the same time against injury to the fifth sacral and coccygeal nerves.

PELVIC DIAPHRAGM-43:20

LEVATOR ANI MUSCLE-43:21

TENDINOUS ARCH OF THE LEVATOR ANI MUSCLE-43:22

COCCYGEUS MUSCLE-43:23, 25:59

SACRAL PLEXUS-70:47

LUMBOSACRAL TRUNK-70:48

SUPERIOR GLUTEAL NERVE-70:49

INFERIOR GLUTEAL NERVE-70:50

POSTERIOR FEMORAL CUTANEOUS NERVE-70:51

SCIATIC NERVE-70:54

PUDENDAL PLEXUS-71:15

MIDDLE HEMORRHOIDAL NERVES^{XX}-71:16

INFERIOR VESICAL NERVES^{XX}-71:17

VAGINAL NERVES^{XX}-71:18 In the female.

PUDENDAL NERVE-71:19

COCCYGEAL NERVE^{XX}-71:26

PELVIC PART OF THE SYMPATHETIC SYSTEM-72:15

SACRAL GANGLIA-72:17

OBTURATOR FASCIA-43:40

OBTURATOR INTERNUS MUSCLE-26:72

PISIFORMIS MUSCLE-28:71

6. Pelvic articulations

LIGAMENTS OF THE PELVIC GIRDLE-20:45

OBTURATOR MEMBRANE-20:46

OBTURATOR CANAL-20:47

ILIOLUMBAR LIGAMENT-20:48

SACROTUBEROUS LIGAMENT-20:49

FALCIFORM PROCESS-20:50

SACROSPINOUS LIGAMENT-20:51

GREATER SCIATIC FORAMEN-20:52

LESSER SCIATIC FORAMEN-20:53

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- SACRO-ILIAC ARTICULATION-20:54
 - ANTERIOR SACRO-ILIAC LIGAMENTS-20:55
 - INTEROSSEOUS SACRO-ILIAC LIGAMENTS-20:56
 - LONG AND SHORT POSTERIOR SACRO-ILIAC LIGAMENTS-20:57, 58.
 - SYNOVIAL CAVITY
- SYMPHYSIS PUBIS-20:59
 - SUPERIOR PUBIC LIGAMENTS-20:60
 - ARCuate LIGAMENT OF PUBIS-20:61
 - INTERPUBIC FIBRO-CARTILAGE-20:62
 - Demonstrated by removing a slice of bone from the front of the symphysis pubis.
- SACRO-COCCYGEAL SYMPHYSIS-18:48
 - SUPERFICIAL POSTERIOR SACRO-COCCYGEAL LIGAMENT-18:49
 - DEEP POSTERIOR SACRO-COCCYGEAL LIGAMENT-18:50
 - ANTERIOR SACRO-COCCYGEAL LIGAMENT-18:51
 - LATERAL SACRO-COCCYGEAL LIGAMENT-18:52

DEPARTMENT OF CHEMISTRY

PH.D. THESIS

BY

ROBERT H. COOPER

IN

CHEMISTRY

1964

CHICAGO, ILLINOIS

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I N F E R I O R E X T R E M I T Y

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I. General characteristics of the inferior extremity

1. Subdivisions

THIGH-5:45

ANTERIOR AND POSTERIOR SURFACE-5:46,47

LATERAL AND MEDIAL SURFACE-5:48,49

GLUTEAL FURROW-5:50

KNEE-5:51

POSTERIOR SURFACE OF KNEE-5:52

PATELLA-5:55

LEG-5:54

FOOT-5:60

For the remaining subdivisions of the leg and foot
see VII: la.

2. Regions

REGIONS OF THE INFERIOR EXTREMITY-84:15

ANTERIOR FEMORAL REGION-84:16

SUBILINGUAL FOSSA-84:17

LATERAL FEMORAL REGION-84:18

TROCHANTERIC REGION-84:19

POSTERIOR FEMORAL REGION-84:20

MEDIAL FEMORAL REGION-84:21

ANTERIOR REGION OF THE KNEE-84:22

PATELLAR REGION-84:23

POSTERIOR REGION OF THE KNEE-84:24

POPLITEAL FOSSA-84:25

For the remaining regions of the inferior extremity,
see, VII:lc.

REGIONS OF THE BACK-83:23

Only those regions of the back are listed here which
are in direct relation to the regions of the inferior
extremity.

REGION OF THE HIP-83:30

SACRAL REGION-83:31

GLUTEAL REGION-83:32

PERINEAL REGION-83:33

II. Gluteal region

1. Surface Anatomy

NATES-5:5

ANAL CLEFT-5:7

COCCYX-7:25

SACRUM-7:5

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 Sincerely,
 [redacted]

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7-10-54

CREST OF THE ILIUM-15:18
 ANTERIOR SUPERIOR ILIAC SPINE-15:22
 POSTERIOR SUPERIOR ILIAC SPINE-15:24
 GLUTEAL SULCUS-5:50
 TUBerosITY OF ISCHIUM-15:36
 GREATER TROCHANTER-16:2

2: Fascia and cutaneous nerves

Skin incisions: a) from the posterior superior iliac spine along the iliac crest as far forward as possible; b) from the posterior extremity of (a) obliquely distally and medially to the middle line of the sacral region, thence distally to the tip of the coccyx; c) from the tip of the coccyx distally and laterally, crossing the middle point of the gluteal sulcus, to the junction of the middle and proximal thirds of the thigh.

SUPERFICIAL FASCIA-23:36
 SUPERIOR CLUNIAL NERVES-70:15
 MIDDLE CLUNIAL NERVES-70:21
 LATERAL CUTANEOUS RAMUS OF THE ILIOHYPOGASTRIC NERVE-70:27
 LATERAL CUTANEOUS RAMUS OF THE TWELFTH THORACIC NERVE-69:76
 INFERIOR CLUNIAL NERVES-70:52
 PERINEAL RAMI OF THE POSTERIOR FEMORAL CUTANEOUS NERVE-~~xxx~~ 70:53
 DEEP FASCIA-45:32

3. Glutaeus maximus muscle

GLUTAEUS MAXIMUS MUSCLE-26:67
 TROCHANTERIC BURSA OF THE GLUTAEUS MAXIMUS MUSCLE-28:53
 GLUTAOFEMORAL BURSAE-29:5
 SCIATIC BURSA OF THE GLUTAEUS MAXIMUS MUSCLE-~~xxx~~29:6

4. Structures exposed by the reflection of the glutaeus maximus muscle

Demonstrated by separating the glutaeus maximus muscle from the underlying structures, detaching it at its origin and reflecting it toward its insertion; at the same time exposing and cutting its nerve and vascular supply, but leaving intact the posterior femoral cutaneous nerve, sacrotuberous ligament and perineal region.

a. Structures distal to the piriformis muscle

INFERIOR GLUTEAL NERVE-70:50
 INFERIOR GLUTEAL ARTERY-51:4
 POSTERIOR FEMORAL CUTANEOUS NERVE-70:51
 SCIATIC NERVE-70:54
 INTERNAL PUDENDAL ARTERY-51:17
 PUDENDAL NERVE-71:19
 NERVE TO THE OBTURATOR INTERNUS MUSCLE
 PIRIFORMIS MUSCLE-26:71
 OBTURATOR INTERNUS MUSCLE-26:72
 SUPERIOR AND INFERIOR GEMELLI MUSCLES-26:73,74
 QUADRATUS FEMORIS MUSCLE-26:75

NERVE TO THE QUADRATUS FEMORIS MUSCLE

Exposed by detaching the two gemelli muscles at their origins, cutting the tendon of the obturator internus at its exit from the lesser sciatic foramen and reflecting these structures toward their insertions.

The following structures are demonstrated by detaching the quadratus femoris muscle at its origin and reflecting it toward its insertion.

OBTURATOR EXTERNUS MUSCLE-27:10

MEDIAL FEMORAL CIRCUMFLEX ARTERY-51:46 Terminal branches only

b. Structures proximal and lateral to the piriformis muscle

GLUTAEUS MEDIUS MUSCLE-26:68

NERVE TO THE TENSOR FASCIAE LATAE MUSCLE

ASCENDING BRANCH OF THE LATERAL FEMORAL CIRCUMFLEX ARTERY-51:51

The following structures are exposed by separating the glutaeus medius muscle from the glutaeus minimus muscle, dividing the glutaeus medius muscle about 5 cm. proximal to the greater trochanter and reflecting the two parts toward their origin and insertion, respectively.

SUPERIOR GLUTEAL ARTERY-51:1

SUPERIOR GLUTEAL NERVE-70:49

GLUTAEUS MINIMUS MUSCLE-26:69

5. Structures exposed by the reflection of the glutaeus minimus muscle.

Demonstrated by detaching the glutaeus minimus muscle at its origin and reflecting it toward its insertion.

ARTICULAR CAPSULE OF HIP-20:64

TROCHANTERIC BURSA OF GLUTAEUS MINIMUS MUSCLE-29:2

REFLECTED TENDON OF THE RECTUS FEMORIS MUSCLE

III. Popliteal Space

1. Surface anatomy

TENDON OF THE BICEPS FEMORIS MUSCLE-27:11

TENDONS OF THE SEMITENDINOSUS AND SEMIMEMBRANOSUS MUSCLES-27:14,15

TENDON OF ADDUCTOR MAGNUS MUSCLE-27:8

EPICONDYLES OF FEMUR-16:19,20

HEAD OF FIBULA-16:54

COMMON PERONEAL NERVE-70:56

2. Fascia, superficial nerves and vessels

Skin incisions: a) longitudinally for about 20 cm. along the middle line of the posterior region of the knee, extending about 10 cm. distal and proximal to the line of the articulation of the knee; b) transversely at each end of the preceding incision.

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Third block of faint, illegible text, appearing to be a list or series of entries.

Fourth block of faint, illegible text, possibly a concluding paragraph or signature area.

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SUPERFICIAL FASCIA-23:36
 POSTERIOR FEMORAL CUTANEOUS NERVE-70:51 Terminal branches
 only.
 SMALL SAPHENOUS VEIN-56:1
 FEMOROPOPLITEAL VEIN-56:2
 DEEP FASCIA-27:70

3. Popliteal space; large nerves and vessels

Exposed by making a longitudinal incision through the deep fascia in the middle line of the popliteal space, reflecting the fascia and demonstrating the structures with a minimum of dissection.

TIBIAL NERVE-70:68
 COMMON PERONEAL NERVE-70:56
 POSTERIOR FEMORAL CUTANEOUS NERVE-70:51
 POPLITEAL ARTERY-51:63
 POPLITEAL VEINS-56:4

4. Popliteal space:medial and lateral boundaries

BICEPS MUSCLE-27:11
 SEMITENDINOSUS MUSCLE-27:14
 SEMITRABECULOSUS MUSCLE-27:15
 LATERAL HEAD OF GASTROCNEMIUS MUSCLE-27:24
 MEDIAL HEAD OF GASTROCNEMIUS MUSCLE-27:25
 PLANTARIS MUSCLE-27:29

5. Contents of the popliteal space

a.Nerves

POSTERIOR FEMORAL CUTANEOUS NERVE-70:51
 TIBIAL NERVE-70:68
 MUSCULAR RAMI-70:69
 MEDIAL SURAL CUTANEOUS NERVE-71:2
 INTEROSSEOUS CRURAL NERVE-71:1
 ARTICULAR RAMI TO KNEE JOINT
 COMMON PERONEAL NERVE-70:56
 LATERAL SURAL CUTANEOUS NERVE-70:58
 PERONEAL ANASTOMOTIC RAMUS-70:59
 ARTICULAR RAMI TO KNEE JOINT

A genicular ramus of the obturator nerve may be present.

b. Blood vessels and lymphatics

POPLITEAL ARTERY-51:63
 SUPERIOR LATERAL GENICULAR ARTERY-51:64
 SUPERIOR MEDIAL GENICULAR ARTERY-51:65
 MIDDLE GENICULAR ARTERY-51:66
 INFERIOR LATERAL GENICULAR ARTERY-51:68
 SURAL ARTERIES-51:67
 POPLITEAL VEINS-56:4
 POPLITEAL LYMPH GLANDS-57:5

6. Floor of the popliteal space

POPLITEAL SURFACE OF FEMUR-16:15
 OBLIQUE POPLITEAL LIGAMENT-21:15
 Associated with it is the fascia of popliteus muscle.

SUBSIDIARY DISTRICTS
 DISTRICTS OF THE NORTH
 DISTRICTS OF THE SOUTH
 DISTRICTS OF THE WEST
 DISTRICTS OF THE EAST

IV. Posterior Part of the Thigh1. Fascia and cutaneous nerves

Skin incision: longitudinally through the skin remaining on the back of the thigh.
 SUPERFICIAL FASCIA-23:36
 POSTERIOR FEMORAL CUTANEOUS NERVE-70:51 Terminal rami.
 ANTERIOR FEMORAL CUTANEOUS NERVE-70:42 Medial terminal rami only.
 CUTANEOUS BRANCH OF THE OBTURATOR NERVE-70:39
 DEEP FASCIA-27:49

2. Muscles

BICEPS FEMORIS MUSCLE-27:11
 LONG HEAD-27:12
 SHORT HEAD-27:13
 SEMITENDINOSUS MUSCLE-27:15
 BURSA OF SEMITENDINOSUS MUSCLE-29:26

3. Nerves and blood vessels

POSTERIOR FEMORAL CUTANEOUS NERVE-70:51
 ISCHIADIC NERVE-70:54
 MUSCULAR RAMI-70:55
 FIRST PERFORATING ARTERY-51:53
 SECOND PERFORATING ARTERY-51:55
 THIRD PERFORATING ARTERY-51:56
 PERFORATING VEINS-55:73
 FEMOROPOPLITEAL VEIN-56:2

V. Anterior Part of the Thigh1. Surface anatomy

ANTERIOR SUPERIOR ILIAC SPINE-15:22
 SYMPHYSIS PUBIS-20:59
 INGUINAL LIGAMENT-25:41
 PUBIC TUBERCLE-15:44
 PUBIC ARCH-15:54
 INFERIOR RAMUS OF THE PUBIS-15:49
 INFERIOR RAMUS OF THE ISCHIUM-15:35
 TUBEROSITY OF THE ISCHIUM-15:36
 GREATER TROCHANTER OF THE FEMUR-16:2
 PATELLA-16:59
 MEDIAL CONDYLE OF THE FEMUR-16:16
 LATERAL CONDYLE OF THE FEMUR-16:17

2. Regions in relation to the anterior aspect of the thigh

ANTERIOR FEMORAL REGION-84:16
 SUBINGUINAL FOSSA-84:17
 LATERAL FEMORAL REGION-84:18
 TROCHANTERIC REGION-84:19
 MEDIAL FEMORAL REGION-84:21

3. Fascia, superficial vessels, lymphatics and cutaneous nerves

a. Superficial fascia, blood vessels, and lymphatics and cutaneous n

Skin incisions: a) from the anterior superior iliac spine along the line of the inguinal ligament to the symphysis pubis; b) from the median end of (a) distally, just lateral to the scrotum and along the medial aspect of the thigh for a distance of 10 cm.; c) from the distal end of (b) anteriorly and transversely to the lateral aspect of the thigh; d) from the end of incision (b) distally to the medial condyle of the tibia; e) from the latter point anteriorly and transversely to the lateral condyle of the tibia.

SUPERFICIAL FASCIA-23:36
 GREAT SAPHENOUS VEIN-55:66
 SUPERFICIAL EPIGASTRIC VEIN-55:65
 SUPERFICIAL CIRCUMFLEX ILIAC VEIN-55:63
 EXTERNAL PUDDENDAL VEINS-55:64
 SUPERFICIAL EPIGASTRIC ARTERY-51:39
 SUPERFICIAL CIRCUMFLEX ILIAC ARTERY-51:40
 EXTERNAL PUDDENDAL ARTERIES-51:41
 SUPERFICIAL SUBINGUINAL LYMPH GLANDS-57:3

b. Fossa ovalis

FOSSA OVALIS-27:65
 DILCEFORM MARGIN-27:66
 SUPERIOR CORNU-27:67
 INFERIOR CORNU-27:66
 FASCIA CRIPOSA-27:69
 Some of the deep subinguinal lymph glands-57:4, may be in relation to the fossa ovalis.

c. Cutaneous nerves, superficial praepatellar bursae

ILIOINGUINAL NERVE-70:29
 LUMBINGUINAL NERVE-70:34
 LATERAL FEMORAL CUTANEOUS NERVE-70:36
 ANTERIOR FEMORAL CUTANEOUS NERVES-70:42
 INFRAPATELLAR RAMUS OF THE SAPHENOUS NERVE-70:45
 CUTANEOUS PASH OF THE OBTURATOR NERVE-70:39
 BURSA PRAEPATELLARIS SUPCUTANEA-29:12
 BURSA PRAEPATELLARIS SUBFASCIALIS-29:15

GENERAL INSTRUCTIONS

1. The purpose of this document is to provide a clear and concise guide for the use of the system.

2. The system is designed to be user-friendly and easy to operate.

3. The system is designed to be flexible and adaptable to changing requirements.

4. The system is designed to be secure and reliable.

5. The system is designed to be efficient and effective.

6. The system is designed to be scalable and expandable.

7. The system is designed to be compatible with existing systems and hardware.

8. The system is designed to be easy to install and maintain.

9. The system is designed to be easy to learn and use.

10. The system is designed to be easy to integrate with other systems.

11. The system is designed to be easy to upgrade and modify.

12. The system is designed to be easy to support and troubleshoot.

13. The system is designed to be easy to document and report on.

14. The system is designed to be easy to train and educate users on.

15. The system is designed to be easy to evaluate and measure the success of.

16. The system is designed to be easy to migrate and transfer data to.

17. The system is designed to be easy to backup and restore data from.

18. The system is designed to be easy to archive and retrieve data from.

19. The system is designed to be easy to delete and purge data from.

20. The system is designed to be easy to recover and restore data from.

d. Deep fascia

FASCIA LATA-27:49

ILIOTIBIAL TRACT-27:50

LATERAL INTERMUSCULAR SEPTUM-27:51

MEDIAL INTERMUSCULAR SEPTUM-27:52

4. Femoral sheath

Demonstrated by making an incision through the fascia lata beginning at the superior cornu of the falciform margin of the fossa ovalis and extending laterally to within about 2 cm. of the anterior superior iliac spine, reflecting the fascial flap laterally and removing the subjacent fat and deep subinguinal lymph glands; contents exposed by a longitudinal incision through the anterior wall of each of the three subdivisions or compartments of the sheath.

FEMORAL ARTERY-51:36

LUMBOINGUINAL NERVE-70:34

FEMORAL VEIN-55:61

FEMORAL CANAL-27:62

The following structures are palpable by introducing the little finger into the femoral canal.

FEMORAL RING-27:63

FEMORAL SEPTUM-27:64

LACUNAR LIGAMENT-25:42

INGUINAL LIGAMENT-25:41

FEMORAL VEIN-55:61

PUBIC BONE-15:40

FEMORAL HERNIA

5. Femoral trigone and its contents

Exposed by removing the fascia lata from the anterior aspect of the proximal third of the thigh.

FEMORAL TRIGONE-27:59

FASCIA ILIOPECTINEA-27:56

LACUNA MUSCULORUM-27:57

LACUNA VASORUM-27:58

FEMORAL ARTERY-51:36

SUPERFICIAL EPIGASTRIC ARTERY-51:39

SUPERFICIAL CIRCUMFLEX ILIAC ARTERY-51:40

EXTERNAL PUDENDAL ARTERIES-51:41

INGUINAL RAMI^{XX}-51:44

DEEP FEMORAL ARTERY-51:45

MEDIAL CIRCUMFLEX FEMORAL ARTERY-51:46

LATERAL CIRCUMFLEX FEMORAL ARTERY-51:50

FEMORAL VEIN-55:61

SUPERFICIAL EPIGASTRIC VEIN-55:65

SUPERFICIAL CIRCUMFLEX ILIAC VEIN-55:66

EXTERNAL PUDENDAL VEINS-55:64

GREAT SAPHEMOUS VEIN-55:66

ACCESSORY SAPHEMOUS VEIN-55:67

THE GREAT WALL

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DEEP FEMORAL VEINS-55:72

MEDIAL CIRCUMFLEX FEMORAL VEINS-55:69

LATERAL CIRCUMFLEX FEMORAL VEINS-55:70

LUMBOINGUINAL NERVE-70:34

LATERAL FEMORAL CUTANEOUS NERVE-70:36

FEMORAL NERVE-70:41

The following muscles are in relation to the floor and medial and lateral boundaries. of the trigone:

ADDUCTOR LONGUS MUSCLE-27:5

PECTINEUS MUSCLE-27:4

ILIOPSAS MUSCLE-26:63

SARTORIUS MUSCLE-26:76

FOSSA ILIOPECTINEA-27:60

6. Adductor canal and its contents

ADDUCTOR CANAL-27:53

Exposed by making a longitudinal incision through the fascia lata remaining on the distal two-thirds of the anterior aspect of the thigh and reflecting the fascial flaps laterally and medially, but leaving intact the iliotibial tract; contents demonstrated by a longitudinal incision through the fibrous anterior wall of the canal.

FEMORAL ARTERY-51:38

ARTERIA GENU SUPREMA-51:59

SAPHENOUS RAMUS-51:61

MUSCULAR RAMI-51:60

ARTICULAR RAMI-51:62

FEMORAL VEIN-55:611

SAPHENOUS NERVE-70:44

TENDINOUS [ADDUCTOR] OPENING-27:54

7. Muscles of the front of the thigh

SARTORIUS MUSCLE-26:76

TENSOR FASCIAE LATAE MUSCLE-26:70

ILIOTIBIAL TRACT-27:50

LATERAL INTERMUSCULAR SEPTUM OF THE THIGH-27:51

MEDIAL INTERMUSCULAR SEPTUM OF THE THIGH-27:52

QUADRICEPS FEMORIS MUSCLE-26:77

RECTUS FEMORIS MUSCLE-26:78

BURSA OF RECTUS FEMORIS MUSCLE^{XX}-29:7

VASTUS LATERALIS MUSCLE-26:79

VASTUS MEDIALIS MUSCLE-27:2

VASTUS INTERMEDIUS MUSCLE-27:1

Exposed by making a transverse incision through the middle of the rectus femoris muscle and reflecting the distal end.

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ARTICULARIS GENU MUSCLE- 27:3

Exposed by making a longitudinal incision through the vastus intermedius muscle.

COMMON TENDON OF THE QUADRICEPS-FEMORIS MUSCLE-26:77

MEDIAL PATELLAR RETINACULUM-21:19

LATERAL PATELLAR RETINACULUM-21:20

VI. Medial Side of the Thigh

1. Muscles, nerves and vessels

ADDUCTOR LONGUS MUSCLE-27:5

DEEP FEMORAL ARTERY-51:45

Exposed by detaching the pectineus muscle at its origin and reflecting it toward its insertion, guarding, at the same time, the anterior ramus of the obturator nerve.

FIRST PERFORATING ARTERY-51:53

SUPERIOR NUTRIENT FEMORAL ARTERY-51:54

SECOND PERFORATING ARTERY-51:55

THIRD PERFORATING ARTERY-51:56

INFERIOR NUTRIENT FEMORAL ARTERY-51:57

PECTINEUS MUSCLE-27:4

PECTINEAL FASCIA-27:61

BURSA OF PECTINEUS MUSCLE-29:10

MEDIAL CIRCUMFLEX FEMORAL ARTERY-51:46

Exposed by detaching the pectineus muscle at its origin and reflecting it toward its insertion.

SUPERFICIAL RAMUS-51:47

DEEP RAMUS-51:48

ACETABULAR RAMUS-51:49

ADDUCTOR BREVIS MUSCLE-27:7

OBTURATOR NERVE-70:37

POSTERIOR RAMUS-70:40

Exposed by detaching the adductor brevis muscle at its origin and reflecting it toward its insertion.

ANTERIOR RAMUS-70:38

CUTANEOUS RAMUS-70:39

GRACILIS MUSCLE-27:6

PROPER BURSA OF SARTORIUS MUSCLE-29:19

BURSA ANSERINA-29:20

ADDUCTOR MINIMUS MUSCLE-27:9

ADDUCTOR MAGNUS MUSCLE-27:8

TENDINOUS [ADDUCTOR] OPENING-27:54

The following structures are demonstrated by detaching the adductor minimus and magnus muscles at their origins and reflecting them toward their insertions.

OBTURATOR EXTERNUS MUSCLE-27:10

PSOAS MAJOR MUSCLE-26:65

ILIAC MUSCLE-26:64

OBTURATOR ARTERY-50:64

Demonstrated by the removal of the obturator externus muscle bit by bit.

ANTERIOR RAMUS-50:66

POSTERIOR RAMUS-50:67

ARTERY OF THE ACETABULUM-50:68

VII. Hip Joint1. Structures in relation to the hip joint

Demonstrated by severing the femoral artery, vein and nerve, detaching the iliopsoas muscle at its insertion, dividing the sartorius muscle near its origin and reflecting these structures together with the tensor fasciae latae muscle and exposing the capsule of the hip joint.

ILIOPECTINEAL BURSA-29:8

BURSA OF RECTUS FEMORIS MUSCLE^{xx}-29:7

SUBTENDINOUS ILIAC BURSA-29:9

ARTICULAR CAPSULE-20:64

ILIOPEMORAL LIGAMENT-20:69

ISCHIOCAPSULAR LIGAMENT-21:1

PUBOCAPSULAR LIGAMENT-21:2

ZONA ORBICULARIS-20:68

GLENOID LIP-20:65

TRANSVERSE LIGAMENT OF ACETABULUM-20:66

LIGAMENTUM TERES FEMORIS-20:67

SYNOVIAL MEMBRANE-18:32

VIII. Leg and Foot1. General Characteristicsa. Subdivisions of leg and foot

LEG-5:54

ANTERIOR AND POSTERIOR SURFACES-5:55,56

CALF-5:57

MEDIAL AND LATERAL MALLEOLI-5:58,59

FOOT-5:60

TARSUS-5:61

METATARSUS-5:62

DORSUM AND SOLE OF FOOT-5:63,64

MEDIAL AND LATERAL MARGINS-5:65,66

HEEL-5:67

DIGITS OF FOOT-5:68

HALLUX-5:69

DIGITS II-IV-5:70

SMALLEST DIGIT-5:71

DORSAL AND PLANTAR SURFACES-5:72,73

MEDIAL AND LATERAL MARGINS-5:74,75

SECTION 1: INTRODUCTION

The purpose of this report is to provide a comprehensive overview of the project's objectives, scope, and methodology. This section will discuss the background of the study, the research questions, and the significance of the findings.

SECTION 2: METHODOLOGY

2.1 Research Design

The research design for this study is a quantitative approach, utilizing a survey method to collect data from a large sample of participants. The survey was designed to measure the variables of interest and to test the hypotheses derived from the theoretical framework.

The data collection process involved the distribution of questionnaires to a diverse group of individuals. The response rate was high, indicating a strong interest in the topic and a willingness to participate in the study.

SECTION 3: RESULTS

3.1 Descriptive Statistics

3.1.1 Demographic Characteristics

The sample consisted of 100 participants, with a gender distribution of 55% male and 45% female. The age range was from 18 to 65 years, with a mean age of 32.5 years.

The majority of participants were employed (70%), with 30% being students. The educational background was diverse, ranging from high school to postgraduate degrees.

The data analysis revealed that the majority of participants were from the urban areas (60%), with 40% from rural areas. The income level was also varied, with 35% reporting a monthly income of less than \$1,000.

The results of the descriptive statistics provide a clear picture of the sample's characteristics, which are essential for interpreting the findings of the study.

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b. Surface anatomy

TUBEROSITY OF THE TIBIA-16:32
 ANTERIOR CREST OF THE TIBIA-16:37
 MEDIAL MARGIN OF THE TIBIA-16:36
 MEDIAL SURFACE OF THE TIBIA-16:33
 LATERAL MALLEOLUS-16:57
 MEDIAL MALLEOLUS-16:40
 TUBEROSITY OF THE MAVICULAR-17:23
 TUBEROSITY OF THE FIFTH METATARSAL BONE-17:36

c. Regions

ANTERIOR CRURAL REGION-84:26
 POSTERIOR CRURAL REGION-84:27
 SURAL REGION-84:28
 LATERAL AND MEDIAL CRURAL REGIONS-84:29,30
 LATERAL MALLEOLAR REGION-84:31
 MEDIAL MALLEOLAR REGION-84:32
 LATERAL AND MEDIAL RETROMALLEOLAR REGIONS-84:33,34
 CALCANEAL REGION-84:35
 DORSAL AND PLANTAR REGIONS OF FOOT-84:36,37
 DIGITAL REGIONS OF FOOT-84:38
 DORSAL DIGITAL REGIONS-84:39
 UNGUICULAR REGIONS-84:40
 PLANTAR DIGITAL REGIONS OF FOOT-84:41

2. Anterior region of leg and dorsum of foota. Superficial fascia, cutaneous nerves and veins

Skin incisions; a) longitudinally along the median line of the leg and dorsum of the foot to the base of the middle toe; b) transversely across the ankle; c) transversely across the dorsum of the foot at the bases of the toes; d) a medial longitudinal incision along the dorsal surface of each digit.

SUPERFICIAL FASCIA-23:36
 DORSAL DIGITAL VEINS OF FOOT-56:15
 INTERCAPITULAR VEINS-56:11
 COMMON DIGITAL VEINS OF FOOT-56:9
 DORSAL VENOUS ARCH OF FOOT-56:8
 DORSAL CUTANEOUS VENOUS NETWORK OF FOOT-56:7
 SMALL SAPHENOUS VEIN-56:1 Origin only.
 GREAT SAPHENOUS VEIN-55:66 Origin only.
 SAPHENOUS NERVE-70:44
 MEDIAL CUTANEOUS RAMI OF LEG-70:46
 LATERAL SURAL CUTANEOUS NERVE-70:58 Terminal rami only.
 SUPERFICIAL PERONEAL NERVE-70:60
 DEEP PERONEAL NERVE-70:65 Terminal rami only.
 DORSAL DIGITAL NERVES-70:64
 LATERAL DORSAL CUTANEOUS NERVE-71:5

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b. Deep fascia

DEEP FASCIA OF THE LEG-27:70
 TRANSVERSE CRURAL LIGAMENT-27:73
 DORSAL FASCIA OF FOOT-28:1
 CRUCIATE LIGAMENT OF THE LEG-27:75
 SUPERIOR PERONEAL RETINACULUM-27:76
 INFERIOR PERONEAL RETINACULUM-27:77
 ANTERIOR FIBULAR SEPTUM-27:71
 POSTERIOR FIBULAR SEPTUM-27:72

c. Muscles in the anterior region of leg

Exposed by making a longitudinal incision through the deep fascia on the front of the leg, extending from the knee to the transverse crural ligament and reflecting the deep fascia, but retaining intact the transverse and cruciate crural ligaments.

TIBIALIS ANTERIOR MUSCLE-27:16
 EXTENSOR DIGITORUM LONGUS MUSCLE-27:17
 EXTENSOR HALLUCIS LONGUS MUSCLE-27:19
 PERONEUS TERTIUS MUSCLE-27:18
 VAGINA TENDINIS MUSCULI TIBIALIS ANTERIORIS-29:29
 VAGINA TENDINIS MUSCULI EXTENSORIS HALLUCIS LONGUS-29:30
 VAGINA TENDINIS MUSCULI EXTENSORIS DIGITORUM PEDIS LONGI-29:31

d. Arteries

ANTERIOR TIBIAL ARTERY-52:1
 Exposed by separating the extensor digitorum longus from the tibialis anterior muscle.
 ANTERIOR TIBIAL RECURRENT ARTERY-52:3 Origin only.
 LATERAL ANTERIOR MALLEOLAR ARTERY-52:4
 MEDIAL ANTERIOR MALLEOLAR ARTERY-52:5
 MEDIAL MALLEOLAR NETWORK-52:6
 LATERAL MALLEOLAR NETWORK-52:7
 PERFORATING RAMUS OF THE PERONEAL ARTERY-52:20 Termination only.
 DORSAL ARTERY OF FOOT-52:8
 LATERAL TARSAL ARTERY-52:9
 MEDIAL TARSAL ARTERIES-52:10
 ARCUATE ARTERY-52:11
 DORSAL NETWORK OF FOOT-52:12
 DORSAL METATARSAL ARTERIES-52:13
 DORSAL DIGITAL ARTERIES-52:14
 DEEP PLANTAR RAMUS-52:15

e. Nerves

DEEP PERONEAL NERVE-70:65
 MUSCULAR RAMI-70:66
 DORSAL DIGITAL NERVES TO LATERAL SURFACE OF HALLUX AND TO MEDIAL SURFACE OF DIGIT II-70:67
 SUPERFICIAL PERONEAL NERVE-70:60
 MUSCULAR RAMI-70:61
 MEDIAL DORSAL CUTANEOUS NERVE-70:62
 INTERMEDIATE DORSAL CUTANEOUS NERVE-70:62
 DORSAL DIGITAL NERVES OF THE FOOT-70:64

f. Muscles of the dorsum of the foot

EXTENSOR HALLUCIS BREVIS MUSCLE-27:34

EXTENSOR DIGITORUM BREVIS MUSCLE-27:35

Exposed by dividing the tendons of the muscles on the front of the leg at the level of the transverse cruciate ligament and reflecting the tendons toward their insertion.

DORSAL INTEROSSEOUS MUSCLES-27:47

Demonstrated by dividing the tendons of the extensor digitorum brevis muscle and reflecting the muscle toward its origin; completing, at the same time, the exposure of the lateral tarsal artery, arcuate artery, and terminal rami of the deep peroneal artery.

3. Lateral or peroneal region of leg

a. Deep fascia and muscles

ANTERIOR FIBULAR INTERMUSCULAR SEPTUM-27:71

Demonstrated by making a longitudinal incision through the deep fascia of this region and reflecting the fascia, retaining intact, however, the peroneal retinacula.

POSTERIOR FIBULAR INTERMUSCULAR SEPTUM-27:72

PERONEUS LONGUS MUSCLE-27:20

PERONEUS BREVIS MUSCLE-27:21

SUPERIOR RETINACULUM OF THE PERONEAL MUSCLES-27:76

INFERIOR RETINACULUM OF THE PERONEAL MUSCLES-27:77

COMMON SHEATH OF TENDONS OF THE PERONEAL MUSCLES-29:35

SUBCUTANEOUS BURSA OF THE LATERAL MALLEOLUS-29:27

b. Nerves

COMMON PERONEAL NERVE-70:56

SUPERFICIAL PERONEAL NERVE-70:60

MUSCULAR RAMI-70:61

DEEP PERONEAL NERVE-70:65

4. Medial region of leg

GREAT SAPHEOUS VEIN-55:66

SAPHEOUS NERVE-70:44

INFRAPATELLAR RAMUS-70:45

MEDIAL CUTANEOUS RAMI OF LEG-71:46

TENDONS OF INSERTION OF THE SARTORIUS, GRACILIS AND SEMITENDINOSUS MUSCLES.

TIBIAL COLLATERAL LIGAMENT OF KNEE JOINT-21:14

MEDIAL INFERIOR GENICULAR ARTERY-51:69

5. Posterior region of leg and heel

a. Fascia, superficial veins and cutaneous nerves

Skin incisions: a) longitudinally in the middle line of the leg from the popliteal space to the heel; b) transversely at the distal end of (a) and extending 5 cm. along the medial and lateral margins of the foot.

The following information was obtained from a review of the files of the [redacted] and is being furnished to you for your information. It is to be understood that this information is being furnished to you on a confidential basis and is not to be disseminated outside of your office.

[redacted] was born on [redacted] at [redacted] and is currently residing at [redacted]. He is a [redacted] and has been employed by [redacted] since [redacted]. His activities have been limited to [redacted] and he has no other known contacts.

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SMALL SAPHENOUS VEIN-56:1
 GREAT SAPHENOUS VEIN-55:66
 SURAL NERVE-71:3
 MEDIAL SURAL CUTANEOUS NERVE-71:2
 PERONEAL ANASTOMOTIC RADIUS-70:59
 LATERAL SURAL CUTANEOUS NERVE-70:58
 POSTERIOR FEMORAL CUTANEOUS NERVE-70:51
 MEDIAL CRURAL CUTANEOUS RAMI OF THE SAPHENOUS NERVE-70:46
 ANTERIOR FEMORAL CUTANEOUS NERVES-70:42 Medial terminal
 rami only.
 DEEP FASCIA-27:74
 LACINATE LIGAMENT-27:74

b. Muscles; superficial group

Exposed by dividing the deep fascia in the median line from the popliteal fossa to the heel and reflecting the fascia, but retaining intact the lacinate ligament.

TRICEPS MUSCLE OF THE CALF-27:22
 GASTROCNEMIUS MUSCLE-27:22
 LATERAL HEAD-27:24
 MEDIAL HEAD-27:25
 LATERAL BURSA OF GASTROCNEMIUS MUSCLE-29:24
 MEDIAL BURSA OF GASTROCNEMIUS MUSCLE-29:25

SOLEUS MUSCLE-27:26

Exposed by detaching the gastrocnemius at its attachment to the calcaneal tendon and reflecting it proximally.

TENDINOUS ARCH OF THE SOLEUS MUSCLE-27:27
 PLANTARIS MUSCLE-27:29
 CALCANEAL TENDON (OF ACHILLES)-27:28
 SUBCUTANEOUS CALCANEAL BURSA-29:29
 BURSA OF CALCANEAL TENDON-29:40

Demonstrated by dividing the calcaneal tendon a few centimeters from its insertion and reflecting the tendon.

c. Muscles; deep group

Structures exposed by detaching the soleus muscle at its origin from the tibia, separating it from the tendinous arch, reflecting the muscle laterally, and making a longitudinal incision through the deep transverse fascia or septum between the superficial and deep group of muscles of the back of the leg.

POPLITEUS MUSCLE-27:50
 BURSA OF POPLITEUS MUSCLE-29:22
 FLEXOR DIGITORUM LONGUS MUSCLE-27:32
 SHEATH OF TENDONS OF FLEXOR DIGITORUM LONGUS MUSCLE-29:32
 TIBIALIS POSTERIOR MUSCLE-27:31
 SHEATH OF TENDON OF TIBIALIS POSTERIOR MUSCLE-29:33
 FLEXOR HALLUCIS LONGUS MUSCLE-27:33
 SHEATH OF TENDON OF FLEXOR HALLUCIS LONGUS MUSCLE-29:34

d. Arteries

POPLITEAL ARTERY-51:63 Termination only.
 ANTERIOR TIBIAL ARTERY-52:1 Origin only.
 POSTERIOR TIBIAL RECURRENT ARTERY-52:2

ANTERIOR TIBIAL LYMPH GLAND-57:6
 POSTERIOR TIBIAL ARTERY-52:16
 FIBULAR RAMUS-52:17
 PERONEAL ARTERY-52:18
 NUTRIENT ARTERY OF THE FIBULA-52:19
 PERFORATING RAMUS-52:20
 COMMUNICATING RAMUS-52:21
 LATERAL POSTERIOR MALLEOLAR ARTERY-52:22
 LATERAL CALCANEAL RAMI-52:23
 NUTRIENT ARTERY OF THE TIBIA-52:24
 MEDIAL POSTERIOR MALLEOLAR ARTERY-52:25
 MEDIAL CALCANEAL RAMI-52:26
 NETWORK OF HEEL-52:27

e. Nerves

TIBIAL NERVE-70:68
 MUSCULAR RAMI-70:69
 INTEROSSEOUS NERVE OF LEG-71:1
 MEDIAL SURAL CUTANEOUS NERVE-71:2
 SURAL NERVE-71:3

f. Lacinate ligament-27:74

6. Plantar region of the foot

a. Fascia and superficial veins

Skin incisions: a) longitudinally along the middle line of the sole; b) transversely across the sole at the clefts of the toes; c) longitudinally along the middle line of each toe.
 SUPERFICIAL FASCIA-23:36
 DIGITAL PLANTAR VEINS-56:16
 PLANTAR VENOUS ARCH-56:13
 INTERCAPITULAR VEINS-56:11
 PLANTAR VENOUS NETWORK-56:12
 MEDIAL CALCANEAL RAMI OF THE TIBIAL NERVE-71:6
 PLANTAR APONEUROSIS-28:2
 TRANSVERSE FASCICULI-28:3

b. Muscles; superficial layer

ABDUCTOR HALLUCIS MUSCLE-27:36
 FLEXOR DIGITORUM BREVIS MUSCLE-27:44
 VAGINAL LIGAMENT-28:6
 ANNULAR LIGAMENT-28:5
 CRUCIATE LIGAMENT-28:7
 DIGITAL SHEATHS OF TENDONS OF FOOT-29:44
 ABDUCTOR DIGITI QUINTI MUSCLE-27:41

c. Plantar arteries

Exposed by detaching the preceding muscles at their origins and reflecting them toward their insertions (noting at the same time their nerve supply).
 MEDIAL PLANTAR ARTERY-52:28
 SUPERFICIAL RAMUS-52:30
 DEEP RAMUS-52:29
 LATERAL PLANTAR ARTERY-52:31

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d. Plantar Nerves

- MEDIAL PLANTAR NERVE-71:7
 - COMMON DIGITAL PLANTAR NERVES-71:8
 - PROPER DIGITAL PLANTAR NERVES-71:9
- LATERAL PLANTAR NERVE-71:10
 - SUPERFICIAL RAMUS-71:11
- COMMON DIGITAL PLANTAR NERVES-71:12
- PROPER DIGITAL PLANTAR NERVES-71:13

e. Muscles; second layer of muscles and tendons

- TENDONS OF THE FLEXOR DIGITORUM LONGUS MUSCLE-27:32
- QUADRATUS PLANTAE MUSCLE-27:45
- LUMBRICALES MUSCLES-27:46
 - BURSAE OF LUMBRICALES MUSCLES-29:43
- TENDON OF THE FLEXOR HALLUCIS LONGUS MUSCLE-27:33

f. Muscles; third layer

- Exposed by dividing the tendons of the flexor digitorum longus and flexor hallucis longus muscles, the heads of the quadratus plantae muscle, and the plantar vessels and nerves near the os calcaneum and reflecting these structures distally (noting at the same time the nerve supply to the lumbricales muscles).
- FLEXOR HALLUCIS BREVIS MUSCLE-27:37
 - ADDUCTOR HALLUCIS MUSCLE-27:38
 - OBLIQUE HEAD-27:39
 - TRANSVERSE HEAD-27:40
 - FLEXOR DIGITI QUINTI BREVIS MUSCLE-27:42
 - OPPONENS DIGITI QUINTI MUSCLE-27:43

g. Plantar arch and deep division of the lateral plantar nerve

- Demonstrated by detaching the flexor hallucis brevis muscle and the oblique head of the adductor hallucis muscle at their origins and reflecting them distally (identifying at the same time the nerve supply of the latter muscle).
- PLANTAR ARCH-52:32
 - PLANTAR METATARSAL ARTERIES-52:33
 - PERFORATING RAMI-52:34
 - DIGITAL PLANTAR ARTERIES-52:35
 - DEEP BRANCH OF LATERAL PLANTAR NERVE-71:14

h. Interosseous muscles and deep tendons

- TRANSVERSE LIGAMENT OF THE HEADS OF THE METATARSAL BONES-22:21
- PLANTAR INTEROSSEOUS MUSCLES-27:48
- DORSAL INTEROSSEOUS MUSCLES-27:47
- TENDON OF TIBIALIS POSTERIOR MUSCLE-27:31
- TENDON OF PERONEUS LONGUS MUSCLE-27:20
 - PLANTAR SHEATH OF TENDON OF PERONEUS LONGUS MUSCLE-29:41

7. Articulations of the leg and foot

- a. KNEE JOINT-21:3
 - ARTICULAR CAPSULE-21:4
 - FIBULAR COLLATERAL LIGAMENT-21:13

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1. The purpose of this document is to provide information regarding the activities of the organization in the field of international relations.

2. The organization has been active in various countries, including the United States, Europe, and Asia.

3. The organization has been active in the field of international relations since its inception in 1950. It has been active in various countries, including the United States, Europe, and Asia. The organization has been active in the field of international relations since its inception in 1950.

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TIBIAL COLLATERAL LIGAMENT-21:14
 OBLIQUE POPLITEAL LIGAMENT-21:15
 ARCUATE POPLITEAL LIGAMENT-21:16
 LIGAMENT OF THE PATELLA-21:18
 MEDIAL PATELLAR RETINACULUM-21:19
 LATERAL PATELLAR RETINACULUM-21:20

The following structures may be exposed by making a longitudinal incision on either side of the patella and patellar ligament, dividing the quadriceps extensor muscle about 8 cm. above the patella, and reflecting the patella and common extensor tendon distally.

PATELLAR SYNOVIAL FOLD-21:11
 DEEP INFRA-PATELLAR BURSA-29:17
 LATERAL MENISCUS-21:5
 MEDIAL MENISCUS-21:6
 TRANSVERSE LIGAMENT OF THE KNEE-21:7
 CRUCIATE LIGAMENTS OF THE KNEE-21:8
 ANTERIOR CRUCIATE LIGAMENT-21:9
 POSTERIOR CRUCIATE LIGAMENT-21:10
 SYNOVIAL MEMBRANE-18:32

b. Ankle joint-21:29

ARTICULAR CAPSULE-21:30
 DELTOID LIGAMENT-21:31
 TIBIONAVICULAR LIGAMENT-21:32
 CALCANEOTIBIAL LIGAMENT-21:33
 ANTERIOR TALOTIBIAL LIGAMENT-21:34
 POSTERIOR TALOTIBIAL LIGAMENT-21:35
 ANTERIOR TALOFIBULAR LIGAMENT-21:36
 POSTERIOR TALOFIBULAR LIGAMENT-21:37
 CALCANEOFIBULAR LIGAMENT-21:38
 SYNOVIAL MEMBRANE-18:32

c. Tibiofibular joints

TIBIOFIBULAR ARTICULATION-21:21
 ARTICULAR CAPSULE-21:22
 LIGAMENTS OF THE HEAD OF THE FIBULA-21:23
 INTEROSSEOUS MEMBRANE-21:24
 TIBIOFIBULAR SYNDESMOSIS-21:25
 ANTERIOR LIGAMENT OF THE LATERAL MALLEOLUS-21:26
 POSTERIOR LIGAMENT OF THE LATERAL MALLEOLUS-21:27

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 ANTERIOR TALOCALCANEAL LIGAMENT-21:45
 POSTERIOR TALOCALCANEAL LIGAMENT-21:46
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 DORSAL TALONAVICULAR LIGAMENT-21:58
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 The examination of the articulation may be completed by severing the ligaments holding the talus in place and removing the talus.
 INTEROSSEOUS TALOCALCANEAL LIGAMENT-21:54

TO : [Illegible]

FROM : [Illegible]

SUBJECT : [Illegible]

[Illegible text block containing the main body of the memorandum, including a summary of the issue and any recommendations.]

The summary of the situation may be outlined as follows:

[Illegible text]

and recommend the following:

[Illegible text]

RESPECTFULLY,
[Illegible Name]

- PLANTAR CALCANEONAVICULAR LIGAMENT-21:70
- CALCANEONAVICULAR PART OF THE BIFURCATE LIGAMENT-21:62
- DORSAL CALCANEONAVICULAR LIGAMENT-21:64
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- TALONAVICULAR ARTICULATION-21:48
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- CALCANEOCUBOID ARTICULATION-21:60
- ARTICULAR CAPSULE-21:51
- PLANTAR CALCANEOCUBOID LIGAMENT-21:69
- LONG PLANTAR LIGAMENT-21:67
 - Not confined entirely to this articulation.
- CUNEONAVICULAR ARTICULATION-21:52
- DORSAL NAVICULAR CUNEIFORM LIGAMENTS-21:65
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 - PLANTAR CUBOIDEONAVICULAR LIGAMENT-22:3
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- ~~ARTICULAR CAPSULES-22:12~~
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- PLANTAR LIGAMENTS OF THE BASES OF THE METATARSAL BONES-22:15
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- INTEROSSEOUS SPACES OF METATARSUS-22:16

g. Metatarsophalangeal articulations-22:17

- ~~ARTICULAR CAPSULES-22:18~~
- COLLATERAL LIGAMENTS-22:19
- PLANTAR ACCESSORY LIGAMENTS-22:20
- TRANSVERSE LIGAMENTS OF THE HEADS OF THE METATARSAL BONES-22:21

h. Articulations of the toes-22:22

- ~~ARTICULAR CAPSULES-22:23~~
- COLLATERAL LIGAMENTS-22:24

Part Two

SYSTEMATIC ANATOMY

Part Two

Systematic Anatomy¹

1 NOMINA ANATOMICA

2 TERMINI, SITUM ET DIRECTIONEM PARTIUM CORPORIS INDICANTES

3 Termini generales

4 Verticalis	13 Anterior	22 Longitudinalis
5 Horizontalis	14 Medius	23 Transversus
6 Medianus	15 Posterior	24 Cranialis
7 Sagittalis	16 Ventralis	25 Rostralis ^x
8 Frontalis	17 Dorsalis	26 Caudalis
9 Transversalis	18 Internus	27 Superior
10 Medialis	19 Externus	28 Inferior
11 Intermedius	20 Dexter	29 Superficialis [sublimis]
12 Lateralis	21 Sinister	30 Profundus

31 Termini ad extremitates spectantes

32 Proximalis	35 Ulnaris
33 Distalis	36 Tibialis
34 Radialis	37 Fibularis

¹ The following arrangement of terms is based on that of the B N A system as published by His in the Archiv für Anatomie und Entwicklungsgeschichte, Supplemental Band, 1895.

All of the terms have been left in their original Latin form. Certain obvious errors in the original lists (cf. also Eycleshymer's Anatomical Names, p. 2, 1917) have been corrected as follows:

- p. 20, Nos. 34, 35 corrected to read Lig. instead of Lig.
- p. 23, Nos. 55, 56, 57 corrected to read MM. instead of M.
- p. 25, No. 49 " " " [Spiegel] " " [Spige]
- p. 29, No. 4 " " " obturatoris " " obturatorii
- p. 34, No. 65 " " " fibrosa " " fibrosus
- p. 53, No. 74, 75, 76 " " " Vv. " " V.
- p. 55, No. 71 " " " V. " " Vv
- p. 68, No. 65, " " " Nn. " " N.

For the significance of brackets and asterisks see footnote, Part I, page 1. The prefixed numerals in Part II merely indicate the serial position of each term for cross reference purposes.

1 TERMINI GENERALES

2	Accessorius	35	Corona	68	Geniculum
3	Acinus	36	Corpus	69	Genu
4	Aditus	37	Corpusculum	70	Glandula
5	Ala	38	Crista	71	Glomerulus
6	Alveolus	39	Crus	72	Glomus
7	Ampulla	40	Decussatio	73	Hilus
8	Angulus	41	Dorsum	74	Humor
9	Ansa	42	Ductulus	75	Junctura
10	Antrum	43	Ductus	76	Impressio
11	Apertura	44	Eminentia	77	Incisura
12	Apex	45	Endothelium	78	Infundibulum
13	Appendix	46	Epithelium	79	Intestinum
14	Arcus	47	Extremitas	80	Isthmus
15	Area	48	Facies	81	Labium
16	Basis	49	Fascia	82	Lacuna
17	Brachium	50	Fasciculus	83	Lamina
18	Canaliculus	51	Fibra	84	Latus
19	Canalis	52	Fibrocartilago	85	Ligamentum
20	Capsula	52	Filum	86	Limbus
21	Caput	54	Fissura	87	Limen
22	Capitulum	55	Flexura	88	Linea
23	Cartilago	56	Folium	89	Liquor
24	Caruncula	57	Folliculus	90	Lobulus
25	Cauda	58	Foramen	91	Lobus
26	Caverna	59	Formatio	92	Macula
27	Cavum	60	Fornix	93	Margo
28	Cellula	61	Fossa	94	Massa
29	Circulus	62	Fossula	95	Meatus
30	Cisterna	63	Fovea	96	Medulla
31	Collum	64	Foveola	97	Membrana
32	Columna	65	Frenulum	98	Membrum
33	Commissura	66	Fundus	99	Mucus
34	Cornu	67	Funiculus	100	Musculus

1	Nervus	25	Regio	49	Trochlea
2	Nodulus	26	Rete	50	Truncus
3	Nucleus	27	Rima	51	Tuber
4	Organon	28	Rundimentum	52	Tuberculum
5	Orificium	29	Septulum	53	Tubulus
6	Os [oris]	30	Septum	54	Tunica
7	Os [ossis]	31	Sinus	55	Tunica propria
8	Ostium	32	Spatium	56	Umbo
9	Papilla	33	Spina	57	Uvula
10	Parenchyma	34	Stratum	58	Vagina
11	Paries	35	Stria	59	Vallecula
12	Perichondrium	36	Stroma	60	Vallum
13	Periosteum	37	Substantia	61	Valvula
14	Plexus	38	Succus	62	Vas
15	Plica	39	Sulcus	63	Velum
16	Polus	40	Taenia	64	Vertex
17	Processus	41	Tegmen	65	Vesica
18	Prominentia	42	Tela	66	Vesicula
19	Punctum	43	Tela conjunctiva	67	Vestibulum
20	Radix	44	Tela elastica	68	Villus
21	Ramulus	45	Torus	69	Viscus [viscera]
22	Ramus	46	Trabecula	70	Vortex
23	Raphe	47	Tractus	71	Zona
24	Recessus	48	Trigonum		

THE UNIVERSITY OF CHICAGO

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1 PARTES CORPORIS HUMANI

- | | | | | |
|----|-------------------------|----------------|----------------------|---------------|
| 2 | Caput | 4 | Truncus | |
| 3 | Collum | 5 | Extremitates | |
| | | | | |
| | 6 | CAPUT | | |
| | 7 | <u>Cranium</u> | | |
| 8 | Vetex | 12 | Tempora | |
| 9 | Sinciput | 13 | Auris | |
| 10 | Frons | 14 | Auricula | |
| 11 | Occiput | | | |
| | | | | |
| | 15 | <u>Facies</u> | | |
| | 16 | Oculus | 27 | O s |
| 17 | Palpebra superior | 28 | Sulcus nasolabialis | |
| 18 | Palpebra inferior | 29 | Philtrum | |
| 19 | Rima palpebrarum | 30 | Labium superius | |
| 20 | Bulbus oculi | 31 | Labium inferius | |
| 21 | Supercilium | 32 | Rima oris | |
| 22 | Sulcus infrapalpebralis | 33 | Cavum oris | |
| 23 | Nasus | 34 | Lingua | |
| 24 | Dorsum nasi | 35 | Fauces | |
| 25 | Apex nasi | 36 | Bucca Mala | |
| 26 | Ala nasi | 37 | Sulcus mentolabialis | |
| | | 38 | Mentum | |
| | | | | |
| | 39 | COLLUM | | |
| 40 | Cervix | 43 | Pharynx | |
| 41 | Larynx | 44 | Trachea | |
| 42 | Prominentia laryngea | 45 | Oesophagus | |
| | | | | |
| | 46 | TRUNCUS | | |
| | 47 | <u>Thorax</u> | 52 | <u>Dorsum</u> |
| 48 | Cavum thoracis | 53 | Columna vertebralis | |
| 49 | Pectus | 54 | Canalis spinalis | |
| 50 | Mamma | | | |
| 51 | Papilla mammae | | | |
| | | | | |
| | 55 | <u>Abdomen</u> | | |
| 56 | Cavum abdominis | 59 | Latus | |
| 57 | Scrobiculus cordis | 60 | Lumbus | |
| 58 | Umbilicus | 61 | Inguen | |

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1 Pelvis

2	Cavum pelvis	6	Anus
3	Mons pubis	7	Crena ani
4	Coxa	8	Perineum
5	Nates [Clunes]		

9 EXTREMITAS SUPERIOR

10	Axilla	27	Manus
	11 Plica axillaris anterior	28	Carpus
	12 Plica axillaris posterior	29	Metacarpus
13	Acromion	30	Dorsum manus
14	Brachium	31	Vola manus Palma
	15 Facies anterior	32	Therax
	16 Facies posterior	33	Hypochthear
	17 Facies lateralis	34	Digiti manus
	18 Facies medialis	35	Pollex [Digitus I]
19	Sulcus bicipitalis lateralis	36	Index [" II]
20	Sulcus bicipitalis medialis	37	Digitus medius [Digitus III]
21	Cubitus	38	Digitus annularis [" IV]
22	Antibrachium	39	Digitus minimus [" V]
	23 Facies dorsalis	40	Facies dorsales
	24 Facies volaris	41	Facies volares
	25 Margo radialis	42	Margines radiales
	26 Margo ulnaris	43	Margines ulnares

44 EXTREMITAS INFERIOR

45	Femur	61	Tarsus
	46 Facies anterior	62	Metatarsus
	47 Facies posterior	63	Dorsum pedis
	48 Facies lateralis	64	Planta
	49 Facies medialis	65	Margo pedis lateralis
50	Sulcus glutaeus	66	Margo pedis medialis
51	Genu	67	Calx
	52 Poples	68	Digiti pedis
	53 Patella	69	Hallux [Digitus I]
54	Crus	70	Digiti II-IV
	55 Facies anterior	71	Digitus minimus [Digitus V]
	56 Facies posterior	72	Facies dorsales
	57 Sura	73	Facies plantares
	58 Malleolus lateralis	74	Margines laterales
	59 Malleolus medialis	75	Margines mediales
60	Pes		

THE HISTORY OF THE

The history of the world is a vast and complex subject, encompassing the lives and actions of countless individuals and the evolution of societies over time. It is a story of human progress, struggle, and achievement, shaped by the forces of nature and the choices of men.

In the beginning, the world was a chaotic and unformed mass. It was the work of the Creator to bring order and life to this world. The first humans appeared on the earth, and they began to explore and settle the various corners of the globe. They learned to use tools, to domesticate animals, and to build communities.

Over the centuries, the human race has made remarkable progress. We have discovered the laws of nature, we have developed advanced technologies, and we have established a global network of trade and communication. We have conquered diseases, we have explored the depths of the ocean and the heights of the sky, and we have reached the stars.

Yet, despite our many achievements, we still face many challenges. We live in a world of inequality, where the rich live in luxury and the poor struggle for survival. We face the threat of nuclear war, and we are confronted with the environmental crisis of global warming. We must work together to overcome these challenges and to create a better world for ourselves and for future generations.

The history of the world is a testament to the power of the human spirit. It is a story of hope and resilience, of the ability of men to overcome adversity and to create a better future. It is a story that inspires us to strive for excellence and to make a positive contribution to the world.

1 OSTEOLOGIA

2 Os longum	8 Synchronodrosis epiphyseos ^x	14 Cavum medullare
3 Os breve	9 Apophysis	15 Medulla ossium
4 Os planum	10 Facies articularis	16 Medulla ossium flava
5 Os pneumaticum	11 Substantia compacta	17 Medulla ossium rubra
6 Epiphysis	12 Substantia corticalis	18 Foramen nutricium
7 Diaphysis	13 Sybstantia spongiosa	19 Canalis nutricius

21 COLUMNA VERTEBRALIS

21 Vertebrae cervicales	42 Tuberculum caroticum [vertebrae cervicalis VI]
22 Vertebrae thoracales	43 Foramen transversarium
23 Vertebrae lumbales	44 Tuberculum posterius [vertebrarum cervicalium]
24 Vertebrae sacrales	45 Processus articulares superiores
25 Vertebrae coccygeae	46 Facies articulares superiores
26 Corpus vertebrae	47 Processus articulares inferiores
27 Fovea costalis superior	48 Facies articulares inferiores
28 Fovea costalis inferior	49 Processus costarius
29 Canalis vertebralis	50 Processus accessorius [vertebrarum lumbalium]
30 Foramen vertebrale	51 Processus mammillaris
31 Arcus vertebrae	
32 Radix arcus vertebrae	52 <u>Atlas</u>
33 Incisura vertebralis superior	53 Massa lateralis
34 Incisura vertebralis inferior	54 Arcus anterior
35 Foramen intervertebrale	55 Tuberculum anterius
36 Sulcus n. spinalis	56 Foveae articulares superiores
37 Processus spinosus	57 Facies articulares inferiores
38 Vertebra prominens	58 Favea dentis
39 Processus transversus	59 Fovea posterior
40 Fovea costalis transversalis	60 Sulcus arteriae vertebralis
41 Tuberculum anterius [vertebrarum cervicalium]	61 Tuberculum posterius

1 Epistropheus

- 2 Dens
3 Facies articularis anterior
4 Facies articularis posterior

5 Os sacrum

6. Facies dorsalis
7 Facies pelvina
8 Basis oss. sacri
9 Processus articularis superior
10 Promontorium
11 Pars lateralis
12 Facies auricularis
13 Tuberositas sacralis
14 Foramina intervertebralia
15 Foramina sacralia anteriora
16 Lineae transversae
17 Foramina sacralia posteriora
18 Crista sacralis media
19 Cristae sacrales laterales
20 Cristae sacrales articulares
21 Cornua sacralia
22 Canalis sacralis
23 Hiatus sacralis
24 Apex oss. sacri

25 Os coccygis

- 26 Cornua coccygea

27 THORAX

28 Costae

- 29 Costae verae
30 Costae spuriae
31 Os costale
32 Cartilago costalis
33 Capitulum costae
34 Facies articularis capituli costae
35 Crista capituli
36 Corpus costae
37 Tuberculum costae
38 Facies articularis tuberculi costae

- 39 Collum costae
40 Crista colli costae
41 Angulus costae
42 Tuberculum scaleni [Lisfranci]
43 Sulcus subclaviae
44 Tuberositas costae II
45 Sulcus costae

46 Sternum

- 47 Manubrium sterni
48 Angulus sterni
49 Synchronosis sternalis
50 Corpus sterni
51 Planum sternale
52 Processus xiphoides
53 Incisura clavicularis
54 Incisura jugularis
55 Incisurae costales
56 (Ossa suprasternalis)

57 Thorax

- 58 Cavum thoracis
59 Apertura thoracis superior
60 Apertura thoracis inferior
61 Arcus costarum
62 Spatia intercostalia
63 Angulus infrasternalis
64 Sulcus pulmonalis

65 OSSA CRANII66 Os basilare67 Os occipitale

- 68 Foramen occipitale magnum
69 Pars basilaris
70 Sulcus petrosus inferior
71 Pars lateralis
72 Squama occipitalis
73 Margo mastoideus
74 Margo lambdoideus
75 (Os interparietale)

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|----|-----------------------------------|----|------------------------------|
| 1 | Clivus | 43 | Foramen opticum |
| 2 | Tuberculum pharyngeum | 44 | Processus clinoides anterior |
| 3 | Condylus occipitalis | 45 | Fissura orbitalis superior |
| 4 | Canalis condyloideus | 46 | A l i a m a g n a |
| 5 | Canalis hypoglossi | 47 | Facies cerebralis |
| 6 | Tuberculum jugulare | 48 | Facies temporalis |
| 7 | Incisura jugularis | 49 | Facies sphenomaxillaris |
| 8 | Processus jugularis | 50 | Facies orbitalis |
| 9 | Fossa condyloidea | 51 | Margo zygomaticus |
| 10 | Processus intrajugularis | 52 | Margo frontalis |
| 11 | Planum occipitale | 53 | Angulus parietalis |
| 12 | Planum nuchale | 54 | Margo squamosus |
| 13 | Protuberantia occipitalis externa | 55 | Crista infratemporalis |
| 14 | (Torus occipitalis) | 56 | Foramen rotundum |
| 15 | Crista occipitalis externa | 57 | Foramen ovale |
| 16 | Linea nuchae suprema | 58 | Foramen spinosum |
| 17 | Linea nuchae superior | 59 | Spina angularis |
| 18 | Linea nuchae inferior | 60 | P r o c e s s u s |
| 19 | Eminentia cruciata | | p t e r y g o i d e u s |
| 20 | Protuberantia occipitalis interna | 61 | Lamina lateralis processus |
| 21 | Sulcus sagittalis | | pterygoidei |
| 22 | Sulcus transversus | 62 | Lamina medialis processus |
| 23 | (Processus paramastoideus) | | pterygoidei |
| | 24 <u>Os sphenoidale</u> | 63 | Fissura pterygoidea |
| 25 | C o r p u s | 64 | Fossa scaphoidea |
| 26 | Sella turcica | 65 | Processus vaginalis |
| 27 | Fossa hypophyseos | 66 | Hamulus pterygoideus |
| 28 | Dorsum sellae | 67 | Sulcus hamuli pterygoidei |
| 29 | Tuberculum sellae | 68 | Fossa pterygoidea |
| 30 | Processus clinoides medius | 69 | Canalis pterygoideus [Vidii] |
| 31 | Processus clinoides posterior | 70 | Canalis pharyngeus |
| 32 | Sulcus caroticus | 71 | Canalis basipharyngeus |
| 33 | Lingula sphenoidalis | 72 | Sulcus tubae auditivae |
| 34 | Crista sphenoidalis | 73 | Sulcus pterygopalatinus |
| 35 | Rostrum sphenoidale | 74 | (Processus pterygospinosus |
| 36 | Sinus sphenoidalis | | [Civinini]) |
| 37 | Septum sinuum sphenoidalium | | 75 <u>Os Temporale</u> |
| 38 | Apertura sinus sphenoidalis | 76 | P a r s m a s t o i d e a |
| 39 | Conchae sphenoidales | 77 | Margo occipitalis |
| 40 | Clivus | 78 | Processus mastoideus |
| 41 | A l a p a r v a | 79 | Incisura mastoidea |
| 42 | Sulcus ciasmatis | 80 | Sulcus sigmoideus |

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73. Appendix AQ 580

74. Appendix AR 590

75. Appendix AS 600

76. Appendix AT 610

77. Appendix AU 620

78. Appendix AV 630

79. Appendix AW 640

80. Appendix AX 650

81. Appendix AY 660

82. Appendix AZ 670

83. Appendix BA 680

84. Appendix BB 690

85. Appendix BC 700

86. Appendix BD 710

87. Appendix BE 720

88. Appendix BF 730

89. Appendix BG 740

90. Appendix BH 750

91. Appendix BI 760

92. Appendix BJ 770

93. Appendix BK 780

94. Appendix BL 790

95. Appendix BM 800

96. Appendix BN 810

97. Appendix BO 820

98. Appendix BP 830

99. Appendix BQ 840

100. Appendix BR 850

- 1 Tuber parietale
- 2 Linea temporalis inferior
- 3 Linea temporalis superior
- 4 Sulcus sagittalis
- 5 Sulcus transversus

- 6 Os frontale
- 7 Squama frontalis
- 8 Facies frontalis
- 9 Margo supraorbitalis
- 10 Pars orbitalis
- 11 Incisura ethmoidalis
- 12 Pars nasalis
- 13 Spina frontalis
- 14 Margo nasalis
- 15 Margo parietalis
- 16 Processus zygomaticus
- 17 Facies temporalis
- 18 Linea temporalis
- 19 Tuber frontale
- 20 Arcus superciliaris
- 21 Glabella
- 22 Foramen sive Incisura supraorbitalis
- 23 Incisura sive Foramen frontale
- 24 Facies orbitalis
- 25 (Spina trochlearis)
- 26 Fovea trochlearis
- 27 Foramen ethmoidale anterius
- 28 Foramen ethmoidale posterius
- 29 Fossa glandulae lacrimalis
- 30 Facies cerebralis
- 31 Crista frontalis
- 32 Sulcus sagittalis
- 33 Foramen caecum
- 34 Sinus frontalis
- 35 Septum sinuum frontaliun

- 36 Os ethmoidale
- 37 Lamina cribrosa
- 38 Crista galli
- 39 Processus alaris
- 40 Lamina perpendicularis

- 41 Labyrinthus ethmoidalis
- 42 Cellulae ethmoidales
- 43 Infundibulum ethmoidale
 - 44 Hiatus semilunaris
- 45 Bulla ethmoidalis
- 46 Lamina papyracea
- 47 Foramina ethmoidalia
- 48 (Concha nasalis suprema)
- 49 Concha nasalis superior
- 50 Concha nasalis media
- 51 Processus uncinatus

- 52 Concha nasalis inferior
- 53 Processus lacrimalis
- 54 Processus maxillaris
- 55 Processus ethmoidalis

- 56 Os lacrimale
- 57 Crista lacrimalis posterior
- 58 Sulcus lacrimalis
- 59 Hamulus lacrimalis
- 60 Fossa sacci lacrimalis

- 61 Os Nasale
- 62 Foramina nasalia
- 63 Sulcus ethmoidalis

- 64 Vomer
- 65 Ala vomeris

- 66 OSSA FACIEI
- 67 Maxilla
- 68 Corpus maxillae
- 69 Facies anterior
- 70 Facies nasalis
- 71 Facies orbitalis
- 72 Facies infratemporalis
- 73 Sinus maxillaris
- 74 Margo infraorbitalis
- 75 Canalis infraorbitalis
- 76 Sulcus infraorbitalis
- 77 Foramen infraorbitale
- 78 Sutura infraorbitalis
- 79 Fossa canina

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 2 Incisura nasalis
 3 Crista maxillare
 4 Foramina alveolaria
 5 Canales alveolares
 6 Planum orbitale
 7 Lago lacrimalis
 8 Sulcus lacrimalis
 9 Canalis nasolacrimalis
 10 Crista conchalis
 11 Processus frontalis
 12 Crista lacrimalis anterior
 13 Incisura lacrimalis
 14 Crista ethmoidalis
 15 Processus zygomaticus
 16 Processus palatinus
 17 Crista nasalis
 18 Spina nasalis anterior
 19 Os incisivum^x
 20 Canalis incisivus
 21 Sutura incisiva
 22 Spinae palatinae
 23 Sulci palatini
 24 Processus alveolaris
 25 Limbus alveolaris
 26 Alveoli dentales
 27 Septa interalveolaria
 28 Jaga alveolaria
 29 Hiatus maxillaris
 30 Foramen incisivum
- 31 Os palatinum
 32 Pars perpendicularis
 33 Facies nasalis
 34 Facies maxillaris
 35 Incisura sphenopalatina
 36 Sulcus pterygopalatinus
 37 Processus pyramidalis
 38 Foramen palatinum majus
 39 Foramina palatina minora
 40 Canales palatini
 41 Crista conchalis
 42 Crista ethmoidalis
- 43 Processus orbitalis
 44 Processus sphenoidalis
 45 Pars horizontalis
 46 Facies nasalis
 47 Facies palatina
 48 Spina nasalis posterior
 49 Crista nasalis
- 50 Os zygomaticum
 51 Facies malaris
 52 Facies temporalis
 53 Facies orbitalis
 54 Processus temporalis
 55 Processus frontosphenoidalis
 56 (Processus marginalis)
 57 Foramen zygomaticoorbitale
 58 Foramen zygomaticofaciale
 59 Foramen zygomaticotemporale
- 60 Mandibula
 61 Corpus mandibulae
 62 Basis mandibulae
 63 Protuberantia mentalis
 64 Tuberculum mentale
 65 Spina mentalis
 66 Foramen mentale
 67 Linea obliqua
 68 Fossa digastrica
 69 Linea mylohyoidea
 70 Sulcus mylohyoideus
 71 Jaga alveolaria
 72 Ramus mandibulae
 73 Angulus mandibulae
 74 (Tuberositas masseterica)
 75 (Tuberositas pterygoidea)
 76 (Crista buccinatoria)
 77 Incisura mandibulae
 78 Processus condyloideus
 79 Capitulum proc. condyl.
 mandibulae
 80 Collum proc. condyloidei
 mandibulae
 81 Fovea pterygoidea proc.
 condyloidei
 82 Processus coronoideus

- 1 Foramen mandibulare
 - 2 Lingula mandibulae
 - 3 Canalis mandibulae
 - 4 Fovea sublingualis
 - 5 (Fovea submaxillaris)
 - 6 Pars alveolaris
 - 7 Limbus alveolaris
 - 8 Alveoli dentales
 - 9 Septa interalveolaria
- 10 Os hyoideum
- 11 Corpus oss. hyoidei
 - 12 Cornu minus
 - 13 Cornu majus
- 14 CRANIUM
- 15 Calvaria
 - 16 Pericranium
 - 17 Lamina externa
 - 18 Diploë
 - 19 Canales diploici [Brescheti]
 - 20 Lamina interna
 - 21 Facies [ossea]
 - 22 Cranium cerebrale
 - 23 Cranium viscerale
 - 24 Vertex
 - 25 Frons
 - 26 Occiput
 - 27 Basis cranii interna
 - 28 Basis cranii externa
 - 29 Fossa cranii anterior
 - 30 Fossa cranii media
 - 31 Fossa cranii posterior
 - 32 Juxta cerebri
 - 33 Impressiones digitatae
 - 34 Sulci venosi
 - 35 Sulci arteriosi
 - 36 (Foveolae granulares [Pacchioni])
 - 37 (Ossa suturarum)
 - 38 Planum temporale
 - 39 Fossa temporalis
 - 40 Arcus zygomaticus
 - 41 Fossa infratemporalis
- 42 Fossa pterygopalatina
 - 43 Canalis pterygopalatinus
 - 44 Foramen sphenopalatinum
 - 45 Apertura piriformis
 - 46 Cavum nasi
 - 47 Septum nasi osseum
 - 48 Meatus nasi communis
 - 49 Meatus nasi superior
 - 50 Meatus nasi medius
 - 51 Meatus nasi inferior
 - 52 Meatus nasopharyngeus
 - 53 Choanae
 - 54 Reccus sphenoehtmoidalis
 - 55 Foramen jugulare
 - 56 Fissura sphenopetrosa
 - 57 Fissura petrooccipitalis
 - 58 Fissura sphenoccipitalis
 - 59 Foramen lacerum
 - 60 Fibrocartilago basalis
 - 61 Palatum durum
 - 62 (Torus palatinus)
 - 63 Orbita
 - 64 Aditus orbitae
 - 65 Margo supraorbitalis
 - 66 Margo infraorbitalis
 - 67 Paries superior
 - 68 Paries inferior
 - 69 Paries lateralis
 - 70 Paries medialis
 - 71 Fissura orbitalis superior
 - 72 Fissura orbitalis inferior
- 73 Suturæ cranii
- 74 Sutura coronalis
 - 75 Sutura sagittalis
 - 76 Sutura lambdoidea
 - 77 Sutura occipitomastoidea
 - 78 Sutura sphenofrontalis
 - 79 Sutura sphenorbitalis
 - 80 Sutura sphenoehtmoidalis
 - 81 Sutura sphenosquamosa
 - 82 Sutura sphenoparietalis

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author outlines the various methods used to collect and analyze the data. This includes both manual and automated processes, as well as the use of specialized software tools. The goal is to ensure that the data is both reliable and easy to interpret.

The third part of the document provides a detailed breakdown of the results. It shows that there is a clear trend in the data, which is consistent with the initial hypothesis. This finding is significant as it provides strong evidence for the proposed model.

Finally, the document concludes with a summary of the key findings and a list of recommendations for future research. It suggests that further studies should be conducted to explore the underlying causes of the observed trends and to test the model under different conditions.

The second part of the document focuses on the implementation of the proposed system. It details the hardware and software requirements, as well as the steps involved in the installation and configuration process. The author also discusses the challenges encountered during the implementation and how they were overcome.

The third section describes the performance of the system over a period of six months. It compares the results against the baseline and shows a significant improvement in efficiency and accuracy. This demonstrates the effectiveness of the proposed system in a real-world setting.

The fourth part of the document discusses the future work that needs to be done. This includes the development of new features, the optimization of the existing ones, and the expansion of the system to other areas. The author also mentions the need for ongoing monitoring and maintenance to ensure the system remains up-to-date and secure.

In conclusion, the document highlights the successful implementation and performance of the proposed system. It provides a clear roadmap for future development and emphasizes the importance of continuous improvement in technology-driven solutions.

- 1 Facies anterior medialis
 2 Facies anterior lateralis
 3 Facies posterior
 4 Margo medialis
 5 Margo lateralis
 6 Tuberositas deltoidea
 7 Sulcus n. radialis
 8 Sulcus n. ulnaris
 9 Capitulum humeri
 10 Trochlea humeri
 11 Epicondylus medialis
 12 Epicondylus lateralis
 13 Fossa olecrani
 14 Fossa coronoidea
 15 Fossa radialis
 16 (Processus supracondyloideus)
- 47 Radius
 18 Corpus radii
 19 Capitulum radii
 20 Fovea capituli radii
 21 Collum radii
 22 Circumferentia articularis
 23 Tuberositas radii
 24 Crista interossea
 25 Facies dorsalis
 26 Facies volaris
 27 Facies lateralis
 28 Margo dorsalis
 29 Margo volaris
 30 Processus styloideus
 31 Incisura ulnaris
 32 Facies articularis carpea
- 33 Ulna
 34 Corpus ulnae
 35 Olecranon
 36 Processus coronoideus
 37 Tuberositas ulnae
 38 Incisura semilunaris
 39 Incisura radialis
- 40 Crista interossea
 41 Facies dorsalis
 42 Facies volaris
 43 Facies medialis
 44 Margo dorsalis
 45 Margo volaris
 46 Crista m. supinatoris
 47 Capitulum ulnae
 48 Circumferentia articularis
 49 Processus styloideus
- 50 Carpus
 51 O s s a c a r p i
 52 (Os centrale)
 53 Os naviculare manus
 54 Tuberculum oss. navicularis
 55 Os lunatum
 56 Os triquetrum
 57 Os pisiforme
 58 Os multangulum majus
 59 Tuberculum oss. multang. majoris
 60 Os multangulum minus
 61 Os capitatum
 62 Os hamatum
 63 Hamulus oss. hamati
 64 Eminentia carpi radialis
 65 Eminentia carpi ulnaris
 66 Sulcus carpi
- 67 Metacarpus
 68 Ossa metacarpalia I--V
 69 Basis
 70 Corpus
 71 Capitulum
 72 Os metacarpale III
 73 Processus styloideus
- 74 Phalanges digitorum manus
 75 Phalanx prima
 76 Phalanx secunda
 77 Phalanx tertia
 78 Basis phalangis

- 1 Corpus phalangis
 2 Trecnlea phalangis
 3 Tuberositas unguicularis
 4 Ossa sesamoidea
- 5 OSSA EXTREMITATIS INFERIORIS
6. Cingulum extremitatis inferioris
- 7 Os coxae
- 8 Foramen obturatum
 9 Acetabulum
 10 Fossa acetabuli
 11 Incisura acetabuli
 12 Facies lunata
 13 Sulci paraglenoidales
- 14 Os ilium
- 15 Corpus oss. ilium
 16 Ala oss. ilium
 17 Linea arcuata
 18 Crista iliaca
 19 Labium extremum
 20 Linea intermedia
 21 Labium internum
 22 Spina iliaca anterior superior
 23 Spina iliaca anterior inferior
 24 Spina iliaca posterior superior
 25 Spina iliaca posterior inferior
 26 Linea glutaea anterior
 27 Linea glutaea posterior
 28 Linea glutaea inferior
 29 Facies auricularis
 30 Tuberositas iliaca
 31 Fossa iliaca
- 32 Os ischii
- 33 Corpus oss. ischii
 34 Ramus superior oss. ischii
 35 Ramus inferior oss. ischii
 36 Tuber ischiadicum
 37 Spina ischiadica
- 38 Incisura ischiadica major
 39 Incisura ischiadica minor
- 40 Os pubis
- 41 Corpus oss. pubis
 42 Pecten oss. pubis
 43 Eminentia iliopectinea
 44 Tuberculum pubicum
 45 Crista obturatoria
 46 Sulcus obturatorius
 47 Tuberculum obturatorium anterius
 48 (Tuberculum obturatorium posterius)
 49 Ramus inferior oss. pubis
 50 Ramus superior oss. pubis
 51 Facies symphyseos
- 52 Pelvis
- 53 Symphysis ossium pubis
 54 Arcus pubis
 55 Angulus pubis
 56 Pelvis major
 57 Pelvis minor
 58 Linea terminalis
 59 Pars sacralis
 60 Pars iliaca
 61 Pars pubica
 62 Apertura pelvis [minoris] superior
 63 Apertura pelvis [minoris] inferior
 64 Axis pelvis
 65 Conjugata
 66 Diameter transversa
 67 Diameter obliqua
 68 Inclinatio pelvis
- 69 Skeleton extremitatis inferioris liberae
- 70 Femur
- 71 Caput femoris
 72 Fovea capitis femoris
 73 Collum femoris

Table 1. Summary of the data

The data were collected from a series of experiments conducted over a period of six months. The subjects were 20 college students, 10 males and 10 females, ranging in age from 18 to 25 years. The experiments were designed to measure the effect of different levels of stress on the performance of a simple task.

The task was a simple reaction time task. The subjects were presented with a visual stimulus and were required to respond as quickly as possible. The response time was measured in milliseconds. The subjects were divided into four groups based on the level of stress they were exposed to during the experiment.

The four groups were: low stress, moderate stress, high stress, and very high stress. The stress levels were manipulated by varying the difficulty of the task and the time pressure. The subjects were not aware of the different stress levels they were exposed to.

The results of the experiment are shown in Table 1. The mean response times for each group are as follows: low stress (250 ms), moderate stress (280 ms), high stress (320 ms), and very high stress (380 ms). The standard deviations for each group are also shown. The results show that as the level of stress increased, the response time also increased.

The increase in response time with increasing stress is consistent with the theory of the Yerkes-Dodson law, which states that performance is optimal at a moderate level of stress. The results of this experiment suggest that very high stress is detrimental to performance on a simple task.

Table 2. Summary of the results

The results of the experiment are summarized in Table 2. The mean response times for each group are as follows: low stress (250 ms), moderate stress (280 ms), high stress (320 ms), and very high stress (380 ms). The standard deviations for each group are also shown. The results show that as the level of stress increased, the response time also increased.

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- | | | | |
|----|---------------------------------------|----|------------------------------------------|
| 1 | Corpus femoris | 39 | Linea poplitea |
| 2 | Trochanter major | 40 | Malleolus medialis |
| 3 | Fossa trochanterica | 41 | Incisura fibularis |
| 4 | Trochanter minor | 42 | Sulcus malleolaris |
| 5 | (Trochanter tertius) | 43 | Facies articularis inferior |
| 6 | Linea intertrochanterica | 44 | Facies articularis malleolaris |
| 7 | Crista intertrochanterica | | |
| 8 | Linea aspera | 45 | <u>Fibula</u> |
| 9 | Labium laterale | 46 | Corpus fibulae |
| 10 | Labium mediale | 47 | Crista interossea |
| 11 | Linea pectinea | 48 | Crista anterior |
| 12 | Tuberositas glutea | 49 | Crista lateralis |
| 13 | Fossa intercondyloidea | 50 | Crista medialis |
| 14 | Linea intercondyloidea | 51 | Facies medialis |
| 15 | Planum popliteum | 52 | Facies lateralis |
| 16 | Condylus medialis | 53 | Facies posterior |
| 17 | Condylus lateralis | 54 | Capitulum fibulae |
| 18 | Facies patellaris | 55 | Facies articularis capituli |
| 19 | Epicondylus lateralis | 56 | Apex capituli fibulae |
| 20 | Epicondylus medialis | 57 | Malleolus lateralis |
| | | 58 | Facies articularis malleoli |
| 21 | <u>Tibia</u> | | |
| 22 | Facies articularis superior | 59 | <u>Patella</u> |
| 23 | Corpus tibiae | 60 | Basis patellae |
| 24 | Condylus medialis | 61 | Apex patellae |
| 25 | Condylus lateralis | 62 | Facies articularis |
| 26 | Fossa intercondyloidea anterior | | |
| 27 | Fossa intercondyloidea posterior | 63 | <u>Tarsus</u> |
| 28 | Eminentia intercondyloidea | 64 | O s s a t a r s i |
| 29 | Tuberculum intercondyloideum mediale | | |
| 30 | Tuberculum intercondyloideum laterale | 65 | <u>Talus</u> |
| 31 | Margo infraglenoidalis | 66 | Caput tali |
| 32 | Tuberositas tibiae | 67 | Corpus tali |
| 33 | Facies medialis | 68 | Collum tali |
| 34 | Facies posterior | 69 | Trochlea tali |
| 35 | Facies lateralis | 70 | Facies superior |
| 36 | Margo medialis | 71 | Facies malleolaris medialis |
| 37 | Crista anterior | 72 | Facies malleolaris lateralis |
| 38 | Crista interossea | 73 | Sulcus tali |
| | | 74 | Processus lateralis tali |
| | | 75 | Facies articularis calcanea
posterior |

- 1 Facies articularis calcanea media
 2 Sulcus m. flexoris hallucis longi
 3 Facies articularis navicularis
 4 Facies articularis calcanea anterior
 5 Processus posterior tali
 6 (Os trigonum)
- 7 Calcaneus
 8 Corpus calcanei
 9 Tuber calcanei
 10 Processus medialis tuberculi calcanei
 11 Processus lateralis tuberculi calcanei
- 12 Sustentaculum tali
 13 Sulcus m. flexoris hallucis longi
 14 Sulcus calcanei
 15 Sinus tarsi
 16 Facies articularis anterior
 17 Facies articularis media
 18 Facies articularis posterior
 19 Sulcus m. peronei
 20 (Processus trochlearis)
 21 Facies articularis cuboidea
- 22 Os naviculare pedis
 23 Tuberositas oss. navicularis
 23 Tuberositas oss.
- 24 Os cuneiforme primum
 25 Os cuneiforme secundum
 26 Os cuneiforme tertium
 27 Os cuboideum
- 28 Sulcus m. peronei
 29 Tuberositas oss. cuboidei
- 30 Metatarsus
 31 Ossa metatarsalis I--V
 32 Basis
 33 Corpus
 34 Capitulum
- 35 Tuberositas oss. metatarsalis I
 36 Tuberositas oss. metatarsalis V
- 37 Phalanges digitorum pedis
 38 Phalanx prima
 39 Phalanx secunda
 40 Phalanx tertia
 41 Tuberositas unguicularis
- 42 Basis phalangis
 43 Corpus phalangis
 44 Trochlea phalangis
 45 Ossa sesamoidea

1 SYNDESMOLOGIA

- | | | | |
|----|-------------------------|----|-----------------------------------|
| 2 | Junctura ossium | 31 | Stratum fibrosum |
| 3 | Synarthrosis | 32 | Stratum synoviale |
| 4 | Sutura | 33 | Plica synovialis |
| 5 | Sutura serrata | 34 | Villi synoviales |
| 6 | Sutura squamosa | 35 | Synovia |
| 7 | Harmonia | | |
| 8 | Gomphosis | 36 | LIGAMENTA COLUMNAE VERTEBRALIS |
| 9 | Synchondrosis | | ET CRANII |
| 10 | Symphysis | 37 | Fibrocartilagine intervertebrales |
| 11 | Diarthrosis | 38 | Annulus fibrosus |
| 12 | Articulatio | 39 | Nucleus pulposus |
| 13 | Articulatio simplex | 40 | Ligg. flava |
| 14 | Articulatio composita | 41 | Capsulae articulares |
| 15 | Arthrodia | 42 | Ligg. intertransversaria |
| 16 | Articulatio sphaeroidea | 43 | Ligg. interspinalia |
| 17 | Enarthrosis | 44 | Lig. supraspinale |
| 18 | Ginglymus | 45 | Lig. nuchae |
| 19 | Articulatio cochlearis | 46 | Lig. longitudinale anterius |
| 20 | Articulatio ellipsoidea | 47 | Lig. longitudinale posterius |
| 21 | Articulatio trochoidea | 48 | Symphysis sacrococcygea |
| 22 | Articulatio sellaris | 49 | Lig. sacrococcygeum posterius |
| 23 | Amphiarthrosis | | superficiale |
| 24 | Syndesmosis | 50 | Lig. sacrococcygeum posterius |
| 25 | Cartilago articularis | | profundum |
| 26 | Cavum articulare | 51 | Lig. sacrococcygeum anterius |
| 27 | Discus articulare | 52 | Lig. sacrococcygeum laterale |
| 28 | Labrum glenoidale | 53 | Lig. pterygospinosum |
| 29 | Meniscus articularis | 54 | Lig. stylohyoideum |
| 30 | Capsula articularis | | |

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- 1 ARTICULATIO ATLANTOCCIPITALIS
 2 Capsulae articulares
 3 Membrana atlantooccipitalis anterior
 4 Membrana atlantooccipitalis posterior
- 5 ARTICULATIO ATHANTOEPISTROPHICA
 6 Capsulae articulares
 7 Lig. alaria
 8 Lig. apicis dentis
 9 Lig. transversum atlantis
 10 Lig. cruciatum atlantis
 11 Membrana tectoria
- 12 ARTICULATIONES COSTOVERTEBRALES
- 13 ARTICULATIONES CAPITULORUM
 14 Capsulae articulares
 15 Lig. capituli costae radiatum
 16 Lig. capituli costae interarticulare
- 17 ARTICULATIONES COSTOTRANSVERSARIAE
 18 Capsulae articulares
 19 Lig. tuberculi costae
 20 Lig. colli costae
 21 Lig. costotransversarium anterius
 22 Lig. costotransversarium posterius
 23 Lig. lumbocostale
 24 Foramen costotransversarium
- 25 ARTICULATIONES STERNOCOSTALES
 26 Capsulae articulares
 27 Lig. sternocostale interarticulare
 28 Lig. sternocostalis radiata
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 30 Ligg. costoxiphoidea
 31 Ligg. intercostalia
 32 Ligg. intercostalia externa
 33 Ligg. intercostalia interna
 34 Articulationes interchondrales
- 35 ARTICULATIO MANDIBULARIS
 36 Capsula articularis
 37 Discus articularis
 38 Lig. temporomandibulare
 39 Lig. sphenomandibulare
 40 Lig. stylomandibulare
- 41 LIGG. CINGULI EXTREMITATIS SUPERIORIS
 42 Lig. coracoacromiale
 43 Lig. transversum scapulae superius
 44 Lig. transversum scapulae inferius
- 45 ARTICULATIO ACROMIOCLAVICULARIS
 46 Capsula articularis
 47 Lig. acromioclaviculare
 48 (Discus articularis)
 49 Lig. coracoclaviculare
 50 Lig. trapezoideum
 51 Lig. conoideum
- 52 ARTICULATIO STERNOCLAVICULARIS
 53 Capsula articularis
 54 Discus articularis
 55 Lig. sternoclaviculare
 56 Lig. costoclaviculare
 57 Lig. interclaviculare
- 58 ARTICULATIO HUMERI
 59 Capsula articularis
 60 Labrum glenoidale
 61 Lig. coracohumerale
- 62 ARTICULATIO CUBITI
 63 Articulatio humeroulnaris
 64 Articulatio humeroradialis
 65 Articulatio radioulnaris proximalis
 66 Capsula articularis
 67 Lig. collaterale ulnare
 68 Lig. collaterale radiale
 69 Lig. annulare radii

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- 1 Recessus sacciformis
- 2 Membrana interossea antibrachii
- 3 Chorda obliqua
- 4 ARTICULATIO RADIOULNARIS DISTALIS
- 5 Capsula articularis
- 6 Discus articularis
- 7 Recessus sacciformis
- 8 ARTICULATIO MANUS
- 9 Articulatio radiocarpea
- 10 Articulatio intercarpea
- 11 Capsula articularis
- 12 Lig. radiocarpeum dorsale
- 13 Lig. radiocarpeum volare
- 14 Lig. carpi radiatum
- 15 Lig. collaterale carpi ulnare
- 16 Lig. collaterale carpi radiale
- 17 Ligg. intercarpea dorsalia
- 18 Ligg. intercarpea volaria
- 19 Ligg. intercarpea interossea
- 20 ARTICULATIO OSSIS PISIFORMIS
- 21 Capsula articularis
- 22 Lig. pisohamatum
- 23 Lig. pisometacarpeum
- 24 Canalis carpi
- 25 ARTICULATIONES CARPOMETACARPEAE
- 26 Capsulae articulares
- 27 Ligg. carpometacarpea dorsalia
- 28 Ligg. carpometacarpea volaria
- 29 ARTICULATIO CARPOMETACARPEA POLLICIS
- 30 Capsula articularis
- 31 ARTICULATIONES INTERMETACARPEAE
- 32 Capsulae articulares
- 33 Ligg. basium [oss. metacarp.] dorsalia
- 34 Ligg. basium [oss. metacarp.] volaria
- 35 Ligg. basium [oss. metacarp] interossea
- 36 Spatia interossea metacarpi
- 37 ARTICULATIONES METACARPOPHALAN-
GAE
- 38 Capsulae articulares
- 39 Ligg. collateralia
- 40 Ligg. accessoria volaria
- 41 Ligg. capitulorum [oss. metacarp-
slium] transversa
- 42 ARTICULATIONES DIGITORUM MANUS
- 43 Capsulae articulares
- 44 Ligg. collateralia
- 45 LIGG. CINGULI EXTREMITATIS
INFERIORIS
- 46 Membrana obturatoria
- 47 Canalis obturatorius
- 48 Lig. iliolumbale
- 49 Lig. sacrotuberosum
- 50 Processus falciformis
- 51 Lig. sacrospinosum
- 52 Foramen ischiadicum majus
- 53 Foramen ischiadicum minus
- 54 ARTICULATIO SACROILIACA
- 55 Ligg. sacroiliaca anteriora
- 56 Ligg. sacroiliaca interossea
- 57 Lig. sacroiliacum posterior breve
- 58 Lig. sacroiliacum posterior longum
- 59 SYMPHYSIS OSSIUM PUBIS
- 60 Lig. pubicum superius
- 61 Lig. arcuatum pubis
- 62 Lamina fibrocartilaginea inter-
pubica
- 63 ARTICULATIO COXAE
- 64 Capsula articularis
- 65 Labrum glenoidale
- 66 Lig. transversum acetabuli
- 67 Lig. teres femoris
- 68 Zona orbicularis
- 69 Lig. iliofemorale

- 1 Lig. ischiocapsulare
 2 Lig. pubocapsulare
- 3 ARTICULATIO GENU
 4 Capsula articularis
 5 Meniscus lateralis
 6 Meniscus medialis
 7 Lig. transversum genu
 8 Ligg. cruciata genu
 9 Lig. cruciatum anterius
 10 Lig. cruciatum posterius
 11 Plica synovialis patellaris
 12 Plicae alares
 13 Lig. collaterale fibulare
 14 Lig. collaterale tibiale
 15 Lig. popliteum obliquum
 16 Lig. popliteum arcuatum
 17 Retinaculum lig. arcuati
 18 Lig. patellae
 19 Retinaculum patellae mediale
 20 Retinaculum patellae laterale
- 21 ARTICULATIO TIBIOFIBULARIS
 22 Capsula articularis
 23 Ligg. capituli fibulae
 24 Membrana interossea cruris
- 25 SYNDESMOSIS TIBIOFIBULARIS
 26 Lig. malleoli lateralis anterius
 27 Lig. malleoli lateralis posterius
- 28 ARTICULATIONES PEDIS
 29 ARTICULATIO TALOCRURALIS
 30 Capsula articularis
 31 Lig. deltoideum
 32 Lig. tibionaviculare
 33 Lig. calcaneotibiale
 34 Lig. talotibiale anterius
 35 Lig. talotibiale posterius
 36 Lig. talofibulare anterius
- 37 Lig. talofibulare posterius
 38 Lig. calcaneofibulare
- 39 ARTICULATIONES INTERTARSEAE
 40 ARTICULATIO TALOCALCANEONAVICULARIS
 41 ARTICULATIO TALOCALCANEA
 42 Capsula articularis
 43 Lig. talocalcaneum laterale
 44 Lig. talocalcaneum mediale
 45 Lig. talocalcaneum anterius
 46 Lig. talocalcaneum posterius
- 47 ARTICULATIO TARSII TRANSVERSA
 CHOPARTI
 48 ARTICULATIO TALONAVICULARIS
 49 Capsula articularis
 50 ARTICULATIO CALCANEOCUBOIDEA
 51 Capsula articularis
 52 ARTICULATIO CUNEONAVICULARIS
 53 LIGG. TARSII INTEROSSEA
 54 Lig. talocalcaneum interosseum
 55 Lig. cuneocuboideum interosseum
 56 Ligg. intercuneiformia interossea
- 57 LIGG. TARSII DORSALIA
 58 Lig. talonaviculare dorsale
 59 Lig. cuneocuboideum dorsale
 60 Lig. cuboidecnaviculare dorsale
 61 Lig. bifurcatum
 62 Pars calcaneonavicularis
 63 Pars calcaneocuboidea
 64 Lig. calcaneonaviculare dorsale
 65 Ligg. navicularicuneiformia dorsalia
- 66 LIGG. TARSII PLANTARIA
 67 Lig. plantare longum
 68 Ligg. tarsi profunda
 69 Lig. calcaneocuboideum plantare
 70 Lig. calcaneonaviculare plantare

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|----|---------------------------------------|----|--------------------------------------------------|
| 1 | Fibrocartilago navicularis | 13 | Ligg. basium [oss. metatars.]
interossea |
| 2 | Ligg. navicularicuneiformia plantaria | 14 | Ligg. basium [oss. metatars.]
dorsalia |
| 3 | Lig. cuboideonaviculare plantare | 15 | Ligg. basium [oss. metatars.]
plantaria |
| 4 | Ligg. intercuneiformia plantaria | 16 | Spatia interossea metatarsi |
| 5 | Lig. cuneocuboideum plantare | | |
| 6 | ARTICULATIONES TARSOMETATARSEAE | 17 | ARTICULATIONES METATARSOPHALAN-
GEAE |
| 7 | Capsulae articulares | 18 | Capsulae articulares |
| 8 | Ligg. tarsometatarsea dorsalis | 19 | Ligg. collateralia |
| 9 | Ligg. tarsometatarsea plantaria | 20 | Ligg. accessoria plantaria |
| 10 | Ligg. cuneometatarsea interossea | 21 | Ligg. capitulcrum [oss. metatars.]
transversa |
| 11 | ARTICULATIONES INTERMETATARSEAE | 22 | ARTICULATIONES DIGITORUM PEDIS |
| 12 | Capsulae articulares | 23 | Capsulae articulares |
| | | 24 | Ligg. collateralia |

The first part of the book is devoted to a general history of the country, from the earliest times to the present day. It is divided into three main periods: the pre-historic, the classical, and the modern. The pre-historic period is the longest, and is divided into the Stone, Bronze, and Iron Ages. The classical period is the shortest, and is divided into the Greek and Roman periods. The modern period is the longest, and is divided into the Middle Ages, the Renaissance, and the modern period.

The second part of the book is devoted to a general history of the world, from the earliest times to the present day. It is divided into three main periods: the pre-historic, the classical, and the modern. The pre-historic period is the longest, and is divided into the Stone, Bronze, and Iron Ages. The classical period is the shortest, and is divided into the Greek and Roman periods. The modern period is the longest, and is divided into the Middle Ages, the Renaissance, and the modern period.

The third part of the book is devoted to a general history of the world, from the earliest times to the present day. It is divided into three main periods: the pre-historic, the classical, and the modern. The pre-historic period is the longest, and is divided into the Stone, Bronze, and Iron Ages. The classical period is the shortest, and is divided into the Greek and Roman periods. The modern period is the longest, and is divided into the Middle Ages, the Renaissance, and the modern period.

1 MYOLOGIA

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|-------|--------------------------------|----|------------------------------------|
| 2 | Musculus | 33 | Aponeurosis |
| | 3 Caput | 34 | Perimysium |
| | 4 Venter | 35 | Fascia |
| 5 | Musculus fusiformis | | 36 Fascia superficialis |
| 6 | Musculus unipennatus | 37 | Inscriptio tendinea |
| 7 | Musculus bipennatus | 38 | Arcus tendineus |
| 8 | Musculus sphincter | 39 | Ligamentum vaginale |
| 9 | Musculus orbicularis | 40 | Vagina fibrosa tendinis |
| 10 | Musculus articularis | 41 | Vagina mucosa tendinis |
| 11 | Musculus skeleti | 42 | Trochlea muscularis |
| 12 | Musculus cutaneus | 43 | Bursa mucosa |
| 13 | Tendo | | |
| <hr/> | | | |
| | 14 MUSCULI DORSI | 44 | M. longissimus capitis |
| 15 | M. trapezius | 45 | M. spinalis |
| 16 | (M. transversus nuchae) | 46 | M. spinalis dorsi |
| 17 | M. latissimus dorsi | 47 | M. spinalis cervicis |
| 18 | M. rhomboideus major | 48 | M. spinalis capitis |
| 19 | M. rhomboideus minor | 49 | M. semispinalis |
| 20 | M. levator scapulae | 50 | M. semispinalis dorsi |
| 21 | M. serratus posterior inferior | 51 | M. semispinalis cervicis |
| 22 | M. serratus posterior superior | 52 | M. semispinalis capitis |
| 23 | M. splenius cervicis | 53 | M. multifidus |
| 24 | M. splenius capitis | 54 | Mm. rotatores |
| 25 | M. sacrospinalis | 55 | Mm. rotatores longi |
| 26 | M. iliocostalis | 56 | Mm. rotatores breves |
| | 27 M. iliocostalis lumborum | 57 | Mm. interspinales |
| | 28 M. iliocostalis dorsi | 58 | Mm. intertransversarii |
| | 29 M. iliocostalis cervicis | 59 | Mm. intertransversarii laterales |
| 30 | M. longissimus | 60 | Mm. intertransversarii mediales |
| | 31 M. longissimus dorsi | 61 | Mm. intertransversarii anteriores |
| | 32 M. longissimus cervicis | 62 | Mm. intertransversarii posteriores |
| | | 63 | M. rectus capitis posterior major |

January 1917

Account	Debit	Credit
Balance forward		100.00
Jan 1	50.00	
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| 1 | M. rectus capitis posterior minor | 41 | M. pterygoideus internus |
| 2 | M. rectus capitis lateralis | 42 | Galea aponeurotica |
| 3 | M. obliquus capitis superior | 43 | Fascia buccopharyngea |
| 4 | M. obliquus capitis inferior | 44 | Fascia parotideomasseterica |
| 5 | Fascia lumbodorsalis | 45 | Fascia temporalis |
| 6 | Fascia nuchae | | |
| | 7 MUSCULI CAPITIS | 46 | MUSCULI OSS. HYOIDEI |
| 8 | M. epicranii | 47 | M. digastricus |
| 9 | 9 M. frontalis | 48 | Venter anterior |
| | 10 M. occipitalis | 49 | Venter posterior |
| | 11 M. procerus | 50 | M. stylohyoideus |
| 12 | M. Nasalis | 51 | M. mylohyoideus |
| | 13 Pars transversa | 52 | M. geniohyoideus |
| | 14 Pars alaris | | |
| 15 | M. depressor septi | 53 | MUSCULI COLLI |
| 16 | M. orbicularis oculi | 54 | Platysma |
| | 17 Pars palpebralis | 55 | M. sternocleidomastoideus |
| | 18 Pars orbitalis | 56 | M. sternohyoideus |
| | 19 Pars lacrimalis {Horneri} | 57 | M. omohyoideus |
| 20 | M. auricularis anterior | 58 | Venter superior |
| 21 | M. auricularis superior | 59 | Venter inferior |
| 22 | M. auricularis posterior | 60 | M. sternothyreoideus |
| 23 | M. orbicularis oris | 61 | M. thyreochoideus |
| 24 | M. triangularis | 62 | (M. levator glandulae thyreoideae) |
| 25 | (M. transversus menti) | 63 | M. longus colli |
| 26 | M. risorius | 64 | M. longus capitis |
| 27 | M. zygomaticus | 65 | M. rectus capitis anterior |
| 28 | M. quadratus labii superioris | 66 | M. scalenus anterior |
| | 29 Caput zygomaticum | 67 | M. scalenus medius |
| | 30 Caput infraorbitale | 68 | M. scalenus posterior |
| | 31 Caput angulare | 69 | (M. scalenus minimus) |
| 32 | M. quadratus labii inferioris | 70 | Fascia colli |
| 33 | M. caninus | 71 | Fascia praevertebralis |
| 34 | M. buccinator | | |
| 35 | Mm. incisivi labii superioris | 72 | MUSCULI THORACIS |
| 36 | Mm. incisivi labii inferioris | 73 | (M. sternalis) |
| 37 | M. mentalis | 74 | M. pectoralis major |
| 38 | M. masseter | 75 | Pars clavicularis |
| 39 | M. temporalis | 76 | Pars sternocostalis |
| 40 | M. pterygoideus externus | 77 | Pars abdominalis |
| | | 78 | M. pectoralis minor |
| | | 79 | M. subclavius |

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- 1 M. serratus anterior
 2 Mm. levatores costarum
 3 Mm. levatores costarum longi
 4 Mm. levatores costarum breves
 5 Mm. intercostales externi
 6 Mm. intercostales interni
 7 Mm. subcostales
 8 M. transversus thoracis
 9 Diaphragma
 10 Pars lumbalis
 11 Crus mediale
 12 Crus intermedium
 13 Crus laterale
 14 Pars costalis
 15 Pars sternalis
 16 Hiatus aorticus
 17 Hiatus oesophageus
 18 Centrum tendineum
 19 Foramen venae cavae
 20 Arcus lumbocostalis medialis
 [Halleri]
 21 Arcus lumbocostalis lateralis
 [Halleri]
 22 Fascia pectoralis
 23 Fascia coracoclavicularis

 24 MUSCULI ABDOMINIS
 25 M. rectus abdominis
 26 Falx aponeurotica inguinalis
 27 M. pyramidalis
 28 M. obliquus externus abdominis
 29 M. obliquus internus abdominis
 30 M. cremaster
 31 M. transversus abdominis
 32 M. quadratus lumborum
 33 Annulus umbilicalis^x
 34 Linea alba
 35 Adniculum lineae albae
 36 Inscriptiones tendineae
 37 Lig. suspensorium penis s.
 clitoridis
 38 Lig. fundiforme penis
 39 Vagina m. recti abdominis
 40 Linea semicircularis [Douglasi]
 41 Lig. inguinale [Poupartii]
 42 Lig. lacunare [Gimbernati]
 43 Lig. inguinale reflexum [Collesi]
 44 Annulus inguinalis subcutaneus
 45 Crus superius
 46 Crus inferius
 47 Fibrae intercrurales
 48 Trigonum lumbale [Petiti]
 49 Linea semilunaris [Spigeli]
 50 Fascia transversalis
 51 Canalis inguinalis
 52 Annulus inguinalis abdominalis
 53 Lig. interfoveolare [Hesselbachi]
 54 Plica epigastrica
 55 Fovea inguinalis lateralis
 56 Fovea inguinalis medialis
 57 Fovea supravescicalis

 58 MUSCULI COCCYGEI
 59 M. coccygeus
 60 M. sacrococcygeus anterior
 61 M. sacrococcygeus posterior

 62 MUSCULI EXTREMITATIS SUPERIORIS
 63 M. deltoideus
 64 M. supraspinatus
 65 M. infraspinatus
 66 M. teres minor
 67 M. teres major
 68 M. subscapularis
 69 M. biceps brachii
 70 Caput longum
 71 Vagina mucosa intertubercularis
 72 Caput breve
 73 Lacertus fibrosus
 74 M. coracobrachialis
 75 M. brachialis
 76 M. triceps brachii
 77 Caput longum
 78 Caput laterale
 79 Caput mediale

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| 1 | M. anconaeus | 42 | Fascia supraspinata |
| 2 | (M. epitrochleoanconaeus) | 43 | Fascia infraspinata |
| 3 | M. pronator teres | 44 | Fascia brachii |
| | 4 Caput humerale | 45 | Septum intermusculare [humeri] |
| | 5 Caput ulnare | | mediale |
| 6 | M. flexor carpi radialis | 46 | Septum intermusculare [humeri] |
| 7 | M. palmaris longus | | laterale |
| 8 | M. flexor carpi ulnaris | 47 | Sulcus bicipitalis medialis |
| | 9 Caput numerale | 48 | Sulcus bicipitalis lateralis |
| | 10 Caput ulnare | 49 | Fascia antibrachii |
| 11 | M. flexor digitorum sublimis | 50 | Fascia dorsalis manus |
| | 12 Caput humerale | 51 | Lig. carpi dorsale |
| | 13 Caput radiale | 52 | Aponeurosis palmaris |
| 14 | M. flexor digitorum profundus | 53 | Fasciculi transversi |
| 15 | M. flexor pollicis longus | 54 | Lig. carpi transversum |
| 16 | M. pronator quadratus | 55 | Lig. carpi volare |
| 17 | M. branchioradialis | 56 | Chiasma tendinum |
| 18 | M. extensor carpi radialis longus | 57 | Vinculum tendinum |
| 19 | M. extensor carpi radialis brevis | 58 | Vaginae musosae |
| 20 | M. extensor digitorum communis | 59 | Ligg. vaginalia digitorum manus |
| | 21 Juncturae tendinum | 60 | Ligg. annularia digitorum manus |
| 22 | M. extensor digiti quinti proprius | 61 | Ligg. cruciata digitorum manus |
| 23 | M. extensor carpi ulnaris | | |
| 24 | M. supinator | | 62 MUSCULI EXTREMITATIS INFERIORIS |
| 25 | M. abductor pollicis longus | 63 | M. iliopsoas |
| 26 | M. extensor pollicis longus | 64 | M. iliacus |
| 27 | M. extensor pollicis longus | 65 | M. psoas major |
| 28 | M. extensor indicis proprius | 66 | M. psoas minor |
| 29 | M. palmaris brevis | 67 | M. gluteus maximus |
| 30 | M. abductor pollicis brevis | 68 | M. gluteus medius |
| 31 | M. flexor pollicis brevis | 69 | M. gluteus minimus |
| 32 | M. opponens pollicis | 70 | M. tensor fasciae latae |
| 33 | M. adductor pollicis | 71 | M. piriformis |
| 34 | M. abductor digiti quinti | 72 | M. obturator internus |
| 35 | M. flexor digiti quinti brevis | 73 | M. gemellus superior |
| 36 | M. opponens digiti quinti | 74 | M. gemellus inferior |
| 37 | Mm. lumbricales | 75 | M. quadratus femoris |
| 38 | Mm. interossei dorsales | 76 | M. sartorius |
| 39 | Mm. interossei volares | 77 | M. quadriceps femoris |
| 40 | Fascia axillaris | 78 | M. rectus femoris |
| 41 | Fascia subscapularis | 79 | M. vastus lateralis |

[List of items and page numbers, including entries like 'SANDY BEACH' and 'SANDY BEACH' with corresponding page numbers.]

INDEX OF SUBJECTS

[List of subjects and page numbers, including entries like 'SANDY BEACH', 'SANDY BEACH', 'SANDY BEACH' with corresponding page numbers.]

[List of subjects and page numbers, including entries like 'SANDY BEACH', 'SANDY BEACH', 'SANDY BEACH' with corresponding page numbers.]

- 1 *M. vastus intermedius*
 2 *M. vastus medialis*
 3 *M. articularis genu*
 4 *M. pectineus*
 5 *M. adductor longus*
 6 *M. gracilis*
 7 *M. adductor brevis*
 8 *M. adductor magnus*
 9 *M. adductor minimus*
 10 *M. obturator externus*
 11 *M. biceps femoris*
 12 Caput longum
 13 Caput breve
 14 *M. semitendinosus*
 15 *M. semimembranosus*
 16 *M. tibialis anterior*
 17 *M. extensor digitorum longus*
 18 *M. peronaeus tertius*
 19 *M. extensor hallucis longus*
 20 *M. peronaeus longus*
 21 *M. peronaeus brevis*
 22 *M. triceps surae*
 23 *M. gastrocnemius*
 24 Caput laterale
 25 Caput mediale
 26 *M. soleus*
 27 *Arcus tendineus m solei*
 28 *Tendo calcaneus [Achillis]*
 29 *M. plantaris*
 30 *M. popliteus*
 31 *M. tibialis posterior*
 32 *M. flexor digitorum longus*
 33 *M. flexor hallucis longus*
 34 *M. extensor hallucis brevis*
 35 *M. extensor digitorum brevis*
 36 *M. abductor hallucis*
 37 *M. flexor hallucis brevis*
 38 *M. adductor hallucis*
 39 Caput obliquum
 40 Caput transversum
 41 *M. abductor digiti quinti*
 42 *M. flexor digiti quinti brevis*
 43 *M. opponens digiti quinti*
 44 *M. flexor digitorum brevis*
 45 *M. quadratus plantae*
 46 *Mm. lumbricales*
 47 *Mm. interossei dorsales*
 48 *Mm. interossei plantares*
 49 *Fascia lata*
 50 *Tractus iliotibialis [Maissiati]*
 51 *Septum intermusculare [femoris]*
 laterale
 52 *Septum intermusculare [femoris]*
 mediale
 53 *Canalis adductorius [Hunteri]*
 54 *Hiatus tendineus [adductorius]*
 55 *Fascia iliaca*
 56 *Fascia iliopectinea*
 57 *Lacuna musculorum*
 58 *Lacuna vasorum*
 59 *Trigonum femorale [Fossa Scarpaie major]*
 60 *Fossa iliopectinea*
 61 *Fascia pectinea*
 62 *Canalis femoralis*
 63 *Annulus femoralis*
 64 *Septum femorale [Cloqueti]*
 65 *Fossa ovalis*
 66 *Margo falciformis*
 67 *Cornu superius*
 68 *Cornu inferius*
 69 *Fascia cribrosa*
 70 *Fascia cruris*
 71 *Septum intermusculare anterius*
 fibulare
 72 *Septum intermusculare posterius*
 fibulare
 73 *Lig. transversum cruris*
 74 *Lig. laciniatum*
 75 *Lig. cruciatum cruris*
 76 *Retinaculum mm. peronaeorum sup.*
 77 *Retinaculum mm. peronaeorum inferius*

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|---|-----------------------------------------------|---|-----------------|
| 1 | Fascia dorsalis pedis | 4 | Vaginae mucosae |
| 2 | Aponeurosis plantaris | 5 | Ligg. annularia |
| 3 | Fasciculi transversi
aponeurosis plantaris | 6 | Ligg. vaginalia |
| | | 7 | Ligg. cruciata |

S B U R S A E E T V A G I N A E M U C O S A E

- | | | | |
|----|----------------------------|----|--------------------------|
| 9 | Bursa mucosa subcutanea | 12 | Bursa mucosa subtendinea |
| 10 | Bursa mucosa submuscularis | 13 | Vagina mucosa tendinis |
| 11 | Bursa mucosa subfacialis | | |

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|----|-----------------------------------------------|----|------------------------------------------------------------------------------|
| 14 | B. muscoli trochlearis | 37 | Vagina tendinum mm. abductoris longi
et extensoris brevis pollicis |
| 15 | B. m. tensoris veli palatini | 38 | Vagina tendinum mm. extensorum carpi
radialium |
| 16 | B. subcutanea praementalis | 39 | Vagina tendinis m. extensoris pollicis
longi |
| 17 | B. subcutanea prominentiae
laryngeae | 40 | Vagina tendinum mm. extensoris digi-
torum communis et extensoris indicis |
| 18 | B. m. sternohyoidei | 41 | Vagina tendinis m. extensoris digiti
minimu |
| 19 | BB. m. thyreohyoidei | 42 | Vagina tendinis m. extensori carpi
ulnaris |
| 20 | B. subcutanea sacralis | 43 | B. m. extensoris carpi radialis brevis |
| 21 | B. coccygea | 44 | Bursae subcutaneae metacarpophalangeae
dorsales |
| 22 | B. subcutanea acromialis | 45 | Bursae subcutaneae digitorum dorsales |
| 23 | B. subacromialis | 46 | B. m. flexoris carpi ulnaris |
| 24 | B. subdeltoidea | 47 | B. m. flexoris carpi radialis |
| 25 | B. m. coracobrachialis | 48 | Vagina tendinum mm. flexorum com-
munium |
| 26 | B. m. infraspinati | 49 | Vag. tendinis m. flexoris pollicis longi |
| 27 | B. m. subscapularis | 50 | Bursae intermetacarpophalangeae |
| 28 | B. m. teretis majoris | 51 | Vaginae tendinum digitales |
| 29 | B. m. latissimi dorsi | 52 | B. trochanterica subcutanea |
| 30 | B. subcutanea olecrani | 53 | B. trochanterica m. glutaevi maximi |
| 31 | B. intratendinea olecrani | 54 | B. troch. m. glueteti medii anterior |
| 32 | B. subtendinea olecrani | | |
| 33 | B. subcutanea epicondyli [umeri]
lateralis | | |
| 34 | B. subcutanea epicondyli [umeri]
medialis | | |
| 35 | B. bicipitoradialis | | |
| 36 | B. cubitalis interossea | | |

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|----|---------------------------------------|----|-----------------------------------------------------------|
| 1 | B. troch. m. glutaevi medii posterior | 25 | B. m. gastrocnemii medialis |
| 2 | B. troch. m. glutaevi minimi | 26 | B. m. semimembranosi |
| 3 | B. m. piriformis | 27 | B. subcutanea malleoli lateralis |
| 4 | B. m. obturatoris interni | 28 | B. subcutanea malleoli medialis |
| 5 | Bursae glutaefemorales | 29 | Vag. tendinis m. tibialis anterioris |
| 6 | B. ischiadica m. glutaevi maximi | 30 | Vag. tendinis m. extensoris hallucis
longi |
| 7 | B. m. recti femoris | 31 | Vaginae tendinum m. extensoris digi-
torum pedis longi |
| 8 | B. iliopectinea | 32 | Vaginae tendinum m. flexoris digi-
torum pedis longi |
| 9 | B. iliaca subtendinea | 33 | Vag. tendinis m. tibialis posterioris |
| 10 | B. m. pectinei | 34 | Vag. tendinis m. flexoris hallucis
longi |
| 11 | B. m. bicipitis femoris superior | 35 | Vag. tendinum mm. peroneorum
communis |
| 12 | B. praepatellaris subcutanea | 36 | Bursa sinus tarsi |
| 13 | B. praepatellaris subfascialis | 37 | B. subtendinea m. tibialis anterioris |
| 14 | B. praepatellaris subtendinea | 38 | B. subtendinea m. tibialis posterioris |
| 15 | B. suprapatellaris | 39 | B. subcutanea calcanea |
| 16 | B. infrapatellaris subcutanea | 40 | B. tendinis calcanei [Achillis] |
| 17 | B. infrapatellaris profunda | 41 | Vag. tendinis m. peronei longi
plantaris |
| 18 | B. subcutanea tuberositatis tibiae | 42 | Bursae intermetatarsophalangeae |
| 19 | B. m. sartorii propria | 43 | Bursae mm. lumbricalium pedis |
| 20 | B. anserina | 44 | Vaginae tendinum digitales pedis |
| 21 | B. m. bicipitis femoris inferior | | |
| 22 | B. m. poplitei | | |
| 23 | B. bicipitogastrocnemialis | | |
| 24 | B. m. gastrocnemii lateralis | | |

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1 SPLANCHNOLOGIA

2	Tunica albuginea	15.	Ligamentum serosum
3	Tunica fibrosa	16.	Serum
4	Tunica adventitia	17	Epithelium
5	Tunica mucosa	18	Endothelium
6	Lamina propria mucosae	19	Organon parenchymatosum
7	Lamina muscularis mucosae	20	Parenchyma
8	Tela submucosa	21	Stroma
9	Plica mucosa	22	Glandula
10	Mucus	23	Lobus
11	Tunica muscularis	24	Lobulus
12	Tunica serosa	25	Glandula mucosa
13	Tela subserosa	26	Musculus viscerum
14	Plica serosa		

27 APPARATUS DIGESTORIUS

28	CAVUM ORIS	40	Palatum durum
29	Bucca	41	Palatum molle
30	Corpus adiposum buccae	42	Raphe palati
31	Vestibulum oris	43	<u>Tunica mucosa oris</u>
32	Cavum oris proprium	44	Frenulum labii superioris
33	Rima oris	45	Frenulum labii inferioris
34	Labia oris	46	Gingiva
35	Labium superius	47	Caruncula sublingualis
36	Labium inferius	48	Plica sublingualis
37	Commissura labiorum	49	Plicae palatinae transversae
38	Angulus oris	50	Papilla incisiva
39	Palatum		

1 Glandulae oris

- 2 Gl. labiales
- 3 Gl. buccales
- 4 Gl. molares
- 5 Gl. palatinae
- 6 Gl. linguales
- 7 Gl. lingualis anterior [Elandini Nuhni]
- 8 Gl. sublingualis
- 9 Ductus sublingualis major
- 10 Ductus sublinguales minores
- 11 Gl. submaxillaris
- 12 Ductus submaxillaris [Whartoni]
- 13 Gl. parotis
 - 14 Processus retromandibularis
- 15 Gl. parotis accessori
- 16 Ductus parotideus [Stenonis]
- 17 Saliva

18 Dentes

- 19 Corona dentis
 - 20 Tubercula [coronae] dentis
- 21 Collum dentis
- 22 Radix Radices dentis
- 23 Apex radices dentis
- 24 Facies masticatoria
- 25 Facies labialis buccalis
- 26 Facies lingualis
- 27 Facies contactus
 - 28 Facies medialis } dentium incisivo-
 - 29 Facies lateralis } rum et caninorum
 - 30 Facies anterior } dentium praemola-
 - 31 Facies posterior } rium et molarium
- 32 Cavum dentis
- 33 Pulpa dentis
- 34 Papilla dentis^x
- 35 Canalis radices dentis
- 36 Foramen apicis dentis
- 37 Substantia eburnea
- 38 Substantia adamantina

- 39 Substantia ossea
- 40 Canaliculi dentales
- 41 Spatia interglobularia
- 42 Prismata adamantina
- 43 Cuticula dentis
- 44 Periosteum alveolare
- 45 Arcus dentalis superior
- 46 Arcus dentalis inferior
- 47 Dentes incisivi
- 48 Dentes canini
- 49 Dentes praemolares
- 50 Dentes molares
 - 51 Dens serotinus
- 52 Dentes permanentes
- 53 Dentes decidui

54 Lingua

- 55 Dorsum linguae
- 56 Radix linguae
- 57 Corpus linguae
- 58 Facies inferior [linguae]
 - 59 Plica fimbriata
- 60 Margo lateralis [linguae]
- 61 Apex linguae
- 62 Tunica mucosa linguae
- 63 Frenulum linguae
- 64 Papillae linguales
- 65 Papillae filiformes
- 66 Papillae conicae
- 67 Papillae fungiformes
- 68 Papillae lenticulares
- 69 Papillae vallatae
- 70 Papillae foliatae
- 71 Sulcus medianus linguae
- 72 Sulcus terminalis
- 73 Foramen caecum linguae (Morgagnii)
- 74 (Ductus lingualis)
- 75 Ductus thyreoglossus^x
- 76 Tonsilla lingualis
- 77 Folliculi linguales
- 78 Septum linguae

- 1 Musculi linguae
- 2 M. genioglossus
- 3 M. hyoglossus
- 4 M. chondroglossus
- 5 M. styloglossus
- 6 M. longitudinalis superior
- 7 M. longitudinalis inferior
- 8 M. transversus linguae
- 9 M. verticalis linguae
- 10 Fauces
- 11 Isthmus faucium
- 12 Velum palatinum
- 13 Uvula palatina
- 14 Arcus palatini
- 15 Arcus glossopalatinus
- 16 Arcus pharyngopalatinus
- 17 Plica salpingopalatina
- 18 Tonsilla palatina
- 19 Fossulae tonsillares
- 20 Sinus tonsillaris
- 21 Plica triangularis
- 22 Fossa supratonsillaris
- 23 Musculi palati et faucium
- 24 M. levator veli palatini
- 25 M. tensor veli palatini
- 26 M. uvulae
- 27 M. glossopalatinus
- 28 M. pharyngopalatinus
- 29 PHARYNX
- 30 Cavum pharyngis
- 31 Fornix pharyngis
- 32 Pars nasalis
- 33 Pars oralis
- 34 Pars laryngea
- 35 Ostium pharyngeum tubae
- 36 Labium anterius
- 37 Labium posterius
- 38 Torus tubarius
- 39 Plica salpingopharyngea
- 40 Recessus pharyngeus [Rosenmuelleri]
- 41 (Bursa pharyngea)
- 42 Recessus piriformis
- 43 M. stylopharyngeus
- 44 Fascia pharyngobasilaris
- 45 Tunica mucosa
- 46 Gl. pharyngeae
- 47 Tonsilla pharyngea
- 48 Fossulae tonsillares
- 49 Tela submucosa
- 50 Tunica muscularis pharyngis
- 51 Raphe pharyngis
- 52 Raphe pterygomandibularis
- 53 M. constrictor pharyngis superior
- 54 M. pterygopharyngeus
- 55 M. buccopharyngeus
- 56 M. mylopharyngeus
- 57 M. glossopharyngeus
- 58 M. salpingopharyngeus
- 59 M. constrictor pharyngis medius
- 60 M. chondropharyngeus
- 61 M. ceratopharyngeus
- 62 M. constrictor pharyngis inferior
- 63 M. thyreopharyngeus
- 64 M. cricopharyngeus
- 65 TUBUS DIGESTORIUS
- 66 Oesophagus
- 67 Pars cervicalis
- 68 Pars thoracalis
- 69 Pars abdominalis
- 70 Tunica adventitia
- 71 Tunica muscularis
- 72 M. bronchooesophageus
- 73 M. pleurooesophageus
- 74 Tela submucosa
- 75 Tunica mucosa
- 76 Lam. muscularis mucosae
- 77 Gl. oesophageae
- 78 Ventriculus
[Gaster]
- 79 Paries anterior
- 80 Paries posterior

MEMORANDUM

TO : [Illegible]

FROM : [Illegible]

SUBJECT: [Illegible]

[Illegible text follows, including various lines of text and possibly a signature block at the bottom.]

- 1 Curvatura ventriculi major
 2 Curvatura ventriculi minor
 3 Cardia
 4 Fundus ventriculi
 5 Corpus ventriculi
 6 Pylorus
 7 Pars cardiaca
 8 Pars pylorica
 9 (Antrum cardiacum)
 10 Antrum pyloricum
 11 Tunica serosa
 12 Tunica muscularis
 13 Stratum longitudinale
 14 Ligg. pylori
 15 Stratum circulare
 16 M. sphincter pylori
 17 Fibrae obliquae
 18 Valvula pylori
 19 Tela submucosa
 20 Tunica mucosa
 21 Lam. muscularis mucosae
 22 Areae gastricae
 23 Plicae villosae
 24 Foveolae gastricae
 25 Glandulae gastricae [propriae]
 26 Glandulae pyloricae
 27 Noduli lymphatici gastrici
 28 Succus gastricus
 29 Intestinum tenue
 30 Tunica serosa
 31 Tunica muscularis
 32 Stratum longitudinale
 33 Stratum circulare
 34 Tela submucosa
 35 Tunica mucosa
 36 Lam. muscularis mucosae
 37 Plicae circulares [Kerkringi]
 38 Villi intestinales
 39 Gl. intestinales [Lieberkuehni]
 40 Noduli lymphatici solitarii
 41 Noduli lymphatici aggregati [Peyeri]
 42 Chymus
 43 Chylus
 44 Succus entericus
 45 Duodenum
 46 Pars superior
 47 Pars descendens
 48 Pars inferior
 49 Pars horizontalis [inferior]
 50 Pars ascendens
 51 Flexura duodeni superior
 52 Flexura duodeni inferior
 53 Flexura duodenojejunalis
 54 M. suspensorius duodeni
 55 Plica longitudinalis duodeni
 56 Papilla duodeni [Santorini]
 58 Intestinum tenue
 mesenteriale
 59 Intestinum jejunum
 60 Intestinum ileum
 61 Intestinum crassum
 62 Intestinum caecum
 63 Valvula coli
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 the second contains the
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 70. The seventieth part of the report

71. The seventy-first part of the report
 72. The seventy-second part of the report
 73. The seventy-third part of the report
 74. The seventy-fourth part of the report
 75. The seventy-fifth part of the report

- 1 Praeputium
 - 2 Frenulum praeputii
 - 3 Raphe penis
 - 4 Corpus cavernosum penis
 - 5 Corpus cavernosum urethrae
 - 6 Bulbus urethrae
 - 7 Hemisphaeria bulbi urethrae
 - 8 Septum bulbi urethrae
 - 9 Tunica albuginea corporum cavernosorum
 - 10 Septum penis
 - 11 Trabeculae corporum cavernosorum
 - 12 Cavernae corporum cavernosorum
 - 13 Arteriae helicinae
 - 14 Venae cavernosae
 - 15 Lig. suspensorium penis
 - 16 Fascia penis
 - 17 Gl. praeputiales
 - 18 Smegma praeputii
- 19 URETHRA VIRILIS
- 20 Pars prostatica
 - 21 Crista urethralis
 - 22 Colliculus seminalis
 - 23 Utriculus prostaticus
 - 24 Pars membranacea
 - 25 Pars cavernosa
 - 26 Fossa navicularis urethrae
 - [Morgagnii]
 - 27 (Valvula fossae navicularis)
 - 28 Orificium urethrae externum
 - 29 Lacunae urethrales [Morgagnii]
 - 30 Gl. urethrales [Littrei]
- 31 SCROTUM
- 32 Raphe scroti
 - 33 Septum scroti
 - 34 Tunica dartos
- 35 ORGANA GENITALIA MULIEBRIA
- 36 Ovarium
- 37 Hilus ovarii
 - 38 Facies medialis
39. Facies lateralis
 - 40 Inguo liber
 - 41 Inguo mesovaricus
 - 42 Extremitas tubaria
 - 43 Extremitas uterina
 - 44 Stroma ovarii
 - 45 Folliculi oophori primarii
 - 46 Folliculi oophori vesiculosi [Graafii]
 - 47 Theca folliculi
 - 48 Tunica externa
 - 49 Tunica interna
 - 50 Liquor folliculi
 - 51 Stratum granulosum
 - 52 Cumulus oophorus
 - 53 Ovulum
 - 54 Corpus luteum
 - 55 Corpus albicans
 - 56 Lig. ovarii proprium
- 57 Tuba uterina [Fallopii]
- 58 Ostium abdominale tubae uterinae
 - 59 Infundibulum tubae uterinae
 - 60 Fimbriae tubae
 - 61 Fimbria ovarica
 - 62 Ampulla tubae uterinae
 - 63 Isthmus tubae uterinae
 - 64 Pars uterina
 - 65 Ostium uterinum tubae
 - 66 Tunica serosa
 - 67 Tunica adventitia
 - 68 Tunica muscularis
 - 69 Stratum longitudinale
 - 70 Stratum circulare
 - 71 Tela submucosa
 - 72 Tunica muscosa
 - 73 Plicae tubariae
 - 74 Plicae ampullares
 - 75 Plicae isthmicae
- 76 Uterus
- 77 Corpus uteri

- 1 Fundus uteri
 2 Margo lateralis
 3 Facies vesicalis
 4 Facies intestinalis
 5 Cavum uteri
 6 Orificium internum uteri
 7 Cervix uteri
 8 Portio supravaginalis [cervicis]
 9 Portio vaginalis [cervicis]
 10 Orificium externum uteri
 11 Labium anterius
 12 Labium posterius
 13 Canalis cervicis uteri
 14 Plicae palmatae
 15 Gl. cervicales [uteri]
 16 Perimetrium
 17 Tunica serosa [Perimetrium]
 18 Tunica muscularis
 19 Tunica muscularis cervicis
 20 Tunica mucosa
 21 Gl. uterinae
 22 M. rectouterinus
 23 Lig. teres uteri
 24 (Processus vaginalis peritonaei)

 25 Vagina
 26 Fornix vaginae
 27 Paries anterior
 28 Paries posterior
 29 Hymen femininus
 30 Carunculae hymenales
 31 Tunica muscularis
 32 Tunica mucosa
 33 Noduli lymphatici vaginales
 34 Rugae vaginales
 35 Columnae rugarum
 36 Columna rugarum posterior
 37 Columna rugarum anterior
 38 Carina urethralis [vaginae]

 39 Epoophoron
 40 Ductus epoophori longitudinalis
 [Gartneri]
- 41 Ductuli transversi
 42 Appendices vesiculosi [Morgagnii]

 43 Paroophoron

 44 PARTES GENITALES EXTERNAE
 45 Pudendum muliebre
 46 Labium majus pudendi
 47 Commissura labiorum anterior
 48 Commissura labiorum posterior
 49 Frenulum labiorum pudendi
 50 Rima pudendi
 51 Fossa navicularis [vestibuli vaginae]
 52 Labium minus pudendi
 53 Vestibulum vaginae
 54 Bulbus vestibuli
 55 Gl. sebaceae
 56 Gl. vestibulares minores
 57 Orificium vaginae

 58 Gl. vestibularis major [Bartholini]

 59 CLITORIS
 60 Crus clitoridis
 61 Cornus clitoridis
 62 Glans clitoridis
 63 Frenulum clitoridis
 64 Praeputium clitoridis
 65 Smegma clitoridis
 66 Corpus cavernosum clitoridis
 67 Septum corporum cavernosorum
 68 Fascia clitoridis
 69 Lig. suspensorium clitoridis

 70 URETHRA MULIEBRIS
 71 Orificium urethrae externum
 72 Corpus spongiosum urethrae
 73 Tunica muscularis
 74 Stratum circulare
 75 Stratum longitudinale
 76 Tunica submucosa
 77 Tunica mucosa

- 1 Gl. urethrales
 2 Crista urethralis
 3 (Ductus paraurethrales)
 4 T e r m i n i o n t o g e n e t i c i
 5 Membranae deciduae^x
 6 Decidua vera^x
 7 Decidua capsularis^x
 8 Decidua basalis^x
 9 Placenta^x
 10 Placenta uterina^x
 11 Placenta foetalis^x
 12 Funiculus umbilicalis^x
 13 Corpus Wolffii^x
 14 Ductus Wolffii^x
 15 Ductus Muelleri^x
 16 Sinus urogenitalis^x
 17 PERINEUM
 18 Raphe perinei
 19 Musculi perinei
 20 Diaphragma pelvis
 21 M. levator ani
 22 Arcus tendineus m. levatoris ani
 23 M. coccygeus [vide p. 25]
 24 M. sphincter ani externus
 25 Lig. anococcygeum
 26 Fascia pelvis
 27 Fascia endopelvina
 28 Fascia diaphragmatis pelvis
 superior
 29 Arcus tendineus fasciae pelvis
 30 Lig. puboprostaticum
 [pubovesicale] medium
 31 Lig. puboprostaticum
 [pubovesicale] laterale
 32 Fascia diaphragmatis pelvis inferior
 33 Diaphragma
 u r o g e n i t a l e
 34 M. transversus perinei profundus
 35 M. sphincter urethrae membranaceae
 36 Fascia diaphragmatis urogenitalis
 superior
 37 Fascia diaphragmatis urogenitalis
 inferior
 38 Lig. transversum pelvis
 39 Fascia prostatae
 40 Fascia obturatoria
 41 Fossa ischiorectalis
 42 M. transversus perinei
 superficialis
 43 M. ischiocavernosus
 44 M. bulbocavernosus
 45 Fascia superficialis perinei
 46 PERITONAEUM
 47 Tunica serosa
 48 Tela subserosa
 49 Peritonaeum parietale
 50 Peritonaeum viscerale
 51 Cavum peritonei
 52 Mesenterium commune^x
 53 Mesenterium
 54 Radix mesenterii
 56 Mesocolon
 57 Mesocolon transversum
 58 Mesocolon ascendens
 59 Mesocolon descendens
 60 Mesocolon sigmoideum
 61 Mesorectum
 62 Mesenteriolum processus
 vermiformis
 63 Mesogastrium^x
 64 Omentum minus
 65 Lig. hepatogastricum
 66 Lig. hepatoduodenale
 67 (Lig. hepaticocolicum)
 68 Lig. gastrolienale
 69 Lig. gastrocolicum
 70 Omentum majus
 71 Bursa omentalis
 72 Vestibulum bursae omentalis
 73 Recessus superior omentalis
 74 Recessus inferior omentalis
 75 Recessus lienalis
 76 Plica gastropancreatica
 77 Foramen ipiploicum [Winslowi]

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|----|--------------------------------|----|---------------------------------------------|
| 1 | Lig. phrenicocolicum | 21 | (Recessus phrenicohepatici) |
| 2 | Lig. phrenicocolienale | 22 | Plica umbilicalis media |
| 3 | Lig. falciforme hepatis | 23 | Plica umbilicalis lateralis |
| 4 | Lig. coronarium hepatis | 24 | Plica epigastrica |
| 5 | Lig. triangulare dextrum | 25 | Plica pubovesicalis |
| 6 | Lig. triangulare sinistrum | 26 | Plica vesicalis transversa |
| 7 | Lig. hepatorenale | 27 | Mesorchium ^x |
| 8 | (Lig. duodenorenale) | 28 | Processus vaginalis peritonaei ^x |
| 9 | Recessus duodenojejunalis | 29 | Lig. latum uteri |
| 10 | Plica duodenojejunalis | 30 | Mesometrium |
| 11 | (Plica duodenumesocolica) | 31 | Mesosalpinx |
| 12 | Recessus intersignoideus | 32 | Mesovarium |
| 13 | Recessus iliocaecalis superior | 33 | Bursa ovarica |
| 14 | Recessus iliocaecalis inferior | 34 | Lig. suspensorium ovarii |
| 15 | Plica iliocaecalis | 35 | Plica rectouterina [Douglasi] |
| 16 | Fossa caecalis | 36 | Excavatio rectouterina [Cavum
Douglasi] |
| 17 | Recessus retrocaecalis | 37 | Excavatio vesicouterina |
| 18 | Plica caecalis | 38 | Excavatio rectovesicalis |
| 19 | Recessus paracolici | 39 | Spatium retroperitoneale |
| 20 | (Fossa iliacosubfascialis) | | |

APPENDIX

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1 ANGIOLOGIA

2 Vas collaterals	17 Emissarium
3 Vas anastomoticum	18 Corpus cavernosum
4 Ramus communicans	19 Vas capillare
5 Plexus vasculosus	20 Vas lymphaticum
6 Rete vasculosum	21 Plexus lymphaticus
7 Rete mirabile	22 Lymphoglandula
8 Arteria	23 Nodulus lymphaticus
9 Arteriola	24 Cisterna
10 Vena	25 Tunica externa [adventitia]
11 Vena cutanea	26 Tunica media
12 Vena comitans	27 Tunica intima
13 Venula	28 Vasa vasorum
14 Plexus venosus	29 Vagina vasorum
15 Rete venosum	30 Sanguis
16 Sinus [venosus]	31 Lympha

32 C O R

33 Basis cordis	49 Septum ventriculorum
34 Facies sternocostalis	50 Septum musculare ventriculorum
35 Facies diaphragmatica	51 Septum membranaceum ventricu- lorum
36 Apex cordis	52 Atrium cordis
37 Incisura [apicis] cordis	53 Auricula cordis
38 Sulcus longitudinalis anterior	54 Septum atriorum
39 Sulcus longitudinalis posterior	55 Pars membranacea septi atriorum
40 Sulcus coronarius	56 Ostium venosum
41 Pericardium	57 Ostium arteriosum
42 Liquor pericardii	58 Trabeculae carneae
43 Ligg. sternopericardiaca	59 Vortex cordis
44 Sinus transversus pericardii	60 Mm. papillares
45 Epicardium	61 Chordae tendineae
46 Myocardium	62 Trigona fibrosa
47 Endocardium	63 Annulli fibrosi
48 Ventriculus cordis	

1 ATRIUM DEXTRUM

- 22 Mm. pectinati
- 3 Sulcus terminalis atrii dextri
- 4 Crista terminalis
- 5 Sinus venarum [cavarum]
- 6 Limbus fossae ovalis [Vieussenii]
- 7 Auricula dextra
- 8 Tuberculum intervenosum [Loweri]
- 9 Valvula venae cavae [inferioris, Eustachii]
- 10 Fossa ovalis
- 11 Valvula sinus coronarii [Thebesii]
- 12 Foramina venarum minorum [Thebesii]

13 VENTRICULUS DEXTER

- 14 Valvula tricuspidalis
- 15 Cuspis anterior
- 16 Cuspis posterior
- 17 Cuspis medialis
- 18 Crista superaventricularis
- 19 Conus arteriosus

- 20 Valvulae semilunares a. pulmonalis
- 21 Valvula semilunaris anterior
- 22 Valvula semilunaris dextra
- 23 Valvula semilunaris sinistra
- 24 Noduli valvularum semilunarium
- 25 Lunulae valvularum semilunarium

26 ATRIUM SINISTRUM

- 27 Auricula sinistra
- 28 Valvula foraminis ovalis

29 VENTRICULUS SINISTER

- 30 Valvula bicuspidalis [mitralis]
- 31 Cuspis anterior
- 32 Cuspis posterior
- 33 Valvulae semilunares aortae
- 34 Valvula semilunaris posterior
- 35 Valvula semilunaris dextra
- 36 Valvula semilunaris sinistra
- 37 Noduli valvularum semilunarium [Arantii]
- 38 Lunulae valvularum semilunarium

39 A R T E R I A E

40 A. PULMONALIS

- 41 Ramus dexter
- 42 Ramus sinister
- 43 Ductus arteriosus [Botalli]^x
- 44 Ligamentum arteriosum

45 AORTA

- 46 Aorta ascendens
- 47 Bulbus aortae
- 48 Sinus aortae [Valsalvae]
- 49 Arcus aortae
- 50 Isthmus aortae
- 51 Aorta descendens
- 52 A. coronaria [cordis] dextra
- 53 Ramus descendens posterior

- 54 A. coronaria [cordis] sinistra
- 55 Ramus circumflexus
- 56 Ramus descendens anterior

57 A. ANONYMA

- 58 (A. thyreoidea ima)

59 A. CAROTIS COMMUNIS

60 A. CAROTIS EXTERNA

- 61 A. thyreoidea superior
- 62 Ramus hyoideus
- 63 Ramus sternocleidomastoideus
- 64 A. laryngea superior
- 65 Ramus circothyroideus

70 A. centralis
 71 A. centralis
 72 A. centralis
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| 1 | Aa. ciliares anteriores | 37 | Rami bronchiales |
| 2 | Aa. conjunctivales anteriores | 38 | A. pericardiacophrenica |
| 3 | Aa. conjunctivales posteriores | 39 | Rami sternales |
| 4 | Aa. episclerales | 40 | Rami perforantes |
| 5 | A. supraorbitalis | 41 | Rami mammarii |
| 6 | A. ethmoidalis posterior | 42 | Rami musculares |
| 7 | A. ethmoidalis anterior | 43 | Rami cutanei |
| 8 | A. meningea anterior | 44 | (Ramus costalis lateralis) |
| 9 | Aa. palpebrales mediales | 45 | Rami intercostales |
| 10 | Arcus tarseus superior | 46 | A. musculophrenica |
| 11 | Arcus tarseus inferior | 47 | A. epigastrica superior |
| 12 | A. frontalis | | |
| 13 | A. dorsalis nasi | 48 | <u>Truncus thyreocervicalis</u> |
| | 14 <u>Aa. cerebri</u> | 49 | <u>A. thyreoidea inferior</u> |
| 15 | A. communicans posterior | 50 | A. laryngea inferior |
| 16 | A. chorioidea | 51 | Rami pharyngei |
| 17 | A. cerebri anterior | 52 | Rami oesophagei |
| 18 | A. communicans anterior | 53 | Rami tracheales |
| 19 | A. cerebri media | 54 | Rami glandulares |
| | 20 A. SUBCLAVIA | 55 | <u>A. cervicalis ascendens</u> |
| | 21 <u>A. vertebralis</u> | 56 | Rami spinales |
| 22 | Rami spinales | 57 | Rami musculares |
| 23 | A. spinalis posterior | 58 | Ramus profundus |
| 24 | A. spinalis anterior | | |
| 25 | Ramus meningeus | 59 | <u>A. cervicalis superficialis</u> |
| 26 | A. cerebelli inferior posterior | 60 | <u>A. transversa scapulae</u> |
| | 27 <u>A. basilaris</u> | 61 | Ramus acromialis |
| 28 | A. cerebelli inferior anterior | 62 | <u>Truncus costocervicalis</u> |
| 29 | A. auditiva interna | 63 | A. intercostalis suprema |
| 30 | Rami ad pontem | 64 | Rami dorsales |
| 31 | A. cerebelli superior | 65 | Rami spinales |
| 32 | A. cerebri posterior | 66 | A. cervicalis profunda |
| 33 | Circulus arteriosus [Willisi] | | |
| | 34 <u>A. mammaria interna</u> | 67 | <u>A. transversa colli</u> |
| 35 | Aa. mediastinales anteriores | 68 | Ramus ascendens |
| 36 | Aa. thymicae | 69 | Ramus descendens |
| | | 70 | A. AXILLARIS |
| | | 71 | Rami subscapulares |

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1 A. thoracalis suprema

2 A. thoracoacromialis

3 Ramus acromialis

4 Rete acromiale

5 Ramus deltoideus

6 Rami pectorales

7 A. thoracalis lateralis

8 Rami mammarii externi

9 A. subscapularis

10 A. thoracoconsalis

11 A. circumflexa scapulae

12 A. circumflexa humeri anterior

13 A. circumflexa humeri posterior

14 BRACHIALIS

15 A. profunda brachii

16 Aa. nutritiae humeri

17 R. deltoideus

18 A. collateralis media

19 A. collateralis radialis

20 A. collateralis ulnaris superior

21 A. collateralis ulnaris inferior

22 A. RADIALIS

23 A. recurrens radialis

24 Rami musculares

25 Ramus carpeus volaris

26 Ramus volaris superficialis

27 Ramus carpeus dorsalis

28 Rete carpi dorsale

29 Aa. metacarpeae dorsales

30 Aa. digitales dorsales

31 A. princeps pollicis

32 A. volaris indicis radialis

33 Arcus volaris profundus

34 Aa. metacarpeae volares

35 Rami perforantes

36 A. ULNARIS

37 Aa. recurrentes ulnares

38 Rete articulare cubiti

39 A. interossea communis

40 A. interossea dorsalis

41 A. interossea recurrens

42 A. interossea volaris

43 A. mediana

44 Rami musculares

45 Ramus carpeus dorsalis

46 Ramus carpeus volaris

47 Ramus volaris profundus

48 Arcus volaris superficialis

49 Aa. digitales volares communes

50 Aa. digitales volares propriae

51 ACORTA THORACALIS

52 Rami viscerales

53 Aa. bronchiales

54 Aa. oesophageae

55 Rami pericardiaci

56 Rami parietales

57 Rami mediastinales

58 Aa. phrenicae superiores

59 Aa. intercostales

60 Rami posteriores

61 Ramus spinalis

62 Rami musculares

63 Ramus cutaneus medialis

64 Ramus cutaneus lateralis

65 Rami anteriores

66 Rami musculares

67 Rami cutanei laterales

pectorales et abdominales

68 Ramus posterior

The first part of the report
 deals with the general
 conditions of the
 country and the
 progress of the
 work during the
 year. It is
 followed by a
 detailed account
 of the various
 expeditions and
 the results
 obtained. The
 report concludes
 with a summary
 of the work
 done and a
 list of the
 names of the
 persons who
 have taken part
 in it.

The second part of the report
 deals with the
 results of the
 various expeditions
 and the progress
 of the work
 during the year.
 It is followed by
 a detailed account
 of the various
 expeditions and
 the results
 obtained. The
 report concludes
 with a summary
 of the work
 done and a
 list of the
 names of the
 persons who
 have taken part
 in it.

- 1 Ramus anterior
- 2 Rami mammarii laterales
- 3 Rami cutanei anteriores (pecto-
rales et abdominales)
- 4 Rami mammarii mediales
- 5 ARCTA ABDOMINALIS
- 6 Rami parietales
- 7 A. phrenica inferior
- 8 Rami suprarenales superiores
- 9 Aa. lumbales
- 10 Ramus dorsalis
- 11 Ramus spinalis
- 12 A. sacralis media
- 13 A. lumbalis ima
- 14. Glomus coccygeum
- 15 Rami viscerales
- 16 A. coeliaca
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 The main objectives...
 are to...
 achieve...

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 The methodology...
 involves...
 the use of...

4. Results
 The results...
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 that...

5. Discussion
 The discussion...
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 the...

6. Conclusion
 In conclusion...
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7. References
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 are...

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2. The second part of the report discusses the measures taken by the government to deal with the crisis. It mentions the fact that the government had to raise taxes and to reduce its expenditures.

3. The third part of the report deals with the results of these measures. It mentions the fact that the government had managed to bring the country back to a state of economic stability.

4. The fourth part of the report discusses the future prospects of the country. It mentions the fact that the government is confident that the country will continue to grow and prosper.

5. The fifth part of the report deals with the conclusions of the report. It mentions the fact that the government is committed to maintaining the economic stability of the country.

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43	" cervicales profundae inferiores
44	" linguales
45	" axillares
46	" subscapulares
47	" pectorales
48	" epigastricae
49	" cubitales superficiales
50	" cubitales profundae
51	" tracheales
52	" bronchiales
53	" intercostales
54	" mediastinales posteriores
55	" mediastinales anteriores
56	" sternales
57	" iliaca
58	" lumbales
59	" coeliacae
60	" gastricae superiores
61	" gastricae inferiores
62	" hepaticae
63	" pancreaticolienales
64	" mesentericae
65	" mesocolicae
66	" hypogastricae

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| 8 | Plexus jugularis | 16 | Plexus iliacus externus |
| | | 17 | Plexus inguinalis |

MEMORANDUM

TO : SAC, [illegible]

FROM : [illegible]

SUBJECT: [illegible]

[illegible] 1
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1 NEUROLOGIA

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| 3 Ganglion | 12 Nuclei terminales |
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| 5 Substantia grisea | 14 Ramus anastomoticus |
| 6 Substantia gelatinosa | 15 Ramus muscularis |
| 7 Taenia telarum | 16 Nervus cutaneus |
| 8 Ependyma ventriculorum | 17 Nervus articularis |
| 9 Sulcus limitans ventriculorum | 18 Plexus nervorum spinalium |
| 10 Nuclei nervorum cerebraliaum | |

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| 24 Pars lumbalis | 43 Commissura anterior grisea |
| 25 Intumescencia lumbalis | 44 Commissura posterior |
| 26 Conus medullaris | 45 Columnae griseae |
| 27 Filum terminale | 46 Columna anterior |
| 28 Ventriculus terminalis | 47 Columna lateralis |
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| 30 Sulcus medianus posterior | 49 Cervix columnae posterioris |
| 31 Sulcus lateralis anterior | 50 Apex columnae posterioris |
| 32 Sulcus lateralis posterior | 51 Substantia gelatinosa [Rolandi] |
| 33 Sulcus intermedius posterior | 52 Nucleus dorsalis [Stillingi, |
| 34 (Sulcus intermedius anterior) | Clarkii] |
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| 36 Funiculus anterior | 54 Funiculus anterior |
| 37 Funiculus lateralis | 55 Fasciculus cerebrospinalis |
| 38 Funiculus posterior | anterior [pyramidalis anterior] |

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[Flechsigi] | 5 Fasciculus anterolateralis
- superficialis [Gowers!] |
| 2 Funiculus lateralis | 6 Fasciculus lateralis proprius
[Flechsigi] |
| 3 Fasciculus cerebrospinalis
lateralis [pyramidalis
lateralis] | 7 Funiculus posterior |
| 4 Fasciculus cerebellospinalis | 8 Fasciculus gracilis [Golli] |
| | 9 Fasciculus cuneatus
[Burdachi] |

10 ENCEPHALON11 RHOMBENCEPHALON12 MYELENCEPHALON13 Medulla oblongata

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| 15 Fissura mediana anterior | 41 Nuclei laterales |
| 16 Foramen caecum | 42 Nucleus olivaris inferior |
| 17 Pyramis medullae
oblongatae | 43 Hilus nuclei olivaris |
| 18 Decussatio pyramidum | 44 Nucleus olivaris accessorius
medialis |
| 19 Sulcus lateralis anterior | 45 Nucleus olivaris accessorius dor-
salis |
| 20 Sulcus lateralis posterior | 46 Nuclei arcuati |
| 21 Oliva | 47 Fibrae arcuatae internae |
| 22 Corpus restiforme | 48 Substantia reticularis grisea |
| 23 Funiculus lateralis | 49 Substantia reticularis alba |
| 24 Funiculus cuneatus | 50 Fasciculus longitudinalis
medialis |
| 25 Tuberculum cinereum | 51 Stratum interolivare lemnisci |
| 26 Funiculus gracilis | 52 Corpus restiforme |
| 27 Clava | 53 Fasciculi corporis restiformis |
| 28 Fibrae arcuatae externae | 54 Fibrae cerebelloolivares |
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| 32 Nucleus n. hypoglossi | 59 Fossa rhomboidea |
| 33 Nucleus ambiguus | 60 Pars inferior fossae rhomboid-
eae |
| 34 Nucleus alae cinereae | 61 [Calamus scriptorius] |
| 35 Tractus solitarius | 62 Pars intermedia [fossa rhom-
boideae] |
| 36 Nucleus tractus solitarii | 63 Recessus lateralis fossae
rhomboideae |
| 37 Tractus spinalis n. trigemini | 64 Pars superior fossae rhomboideae |
| 38 Nucleus tractus spinalis n. trigemini
trigemini | 65 Sulcus limitans [fossae rhomboideae] |
| 39 Nucleus funiculi gracilis | 66 Fovea inferior |

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- 1 Fovea superior
- 2 Trigonum n. hypoglossi
- 3 Striae medullares
- 4 Eminentia medialis
- 5 Colliculus facialis
- 6 Ala cinerea
- 7 Area acustica
- 8 Locus caeruleus
- 9 Tegmen ventriculi quarti
- 10 Velum medullare posterius
- 11 Taenia ventriculi quarti
- 12 Obex
- 13 Lamina chorioidea epithelialis
- 14 (Apertura medialis
ventriculi quarti)
- 15 (Foramen Magendii)
- 16 (Apertura lateralis ventriculi
quarti)
- 17 Fastigium
- 18 METENCEPHALON
- 19 Pons [Varolii]
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- 21 Fasciculus obliquus [pontis]
- 22 (Fila lateralia pontis)
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pontis
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- 28 Nuclei motorii n. trigemini
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- 31 Nucleus tractus spinalis n.
trigemini
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- 35 Genu internum
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- 37 Nuclei n. acustici
- 38 Nuclei n. cochlearis
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[acusticus]
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- 74 Facies superior
- 75 Ala lobuli centralis
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| 11 | Corpus mesencephalicum | 30 | Trigonum lemnisci |
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| | 15 [Lamina basalis] | 33 | <u>Sectiones isthmi</u> |
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 5 Brachium quadrigeminum superius
 6 Brachium quadrigeminum inferius
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 8 Stratum zonale
 9 Stratum griseum colliculi superioris
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13 Diencephalon

- 14 Ventriculus tertius
 15 Aditus ad aquaeductum cerebri
 16 Commissura posterior [cerebri]
 17 Foramen interventriculare [Monroi]
 18 Sulcus hypothalamicus [Monroi]
 19 Massa intermedia
 20 Recessus opticus
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 22 Commissura anterior [cerebri]
 23 Recessus triangularis

24 Hypothalamus

- 25 Pars mamillaris
 hypothalami
 26 Corpus mamillare
 27 Pars optica
 hypothalami
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 31 Lobus anterior
 32 Lobus posterior
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 34 Radix medialis
 35 Radix lateralis
 36 Chiasma opticum
 37 Lamina terminalis

38 Sectiones hypothalami

- 39 Nucleus hypothalamicus
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 40 Pars grisea hypothalami
 41 Commissura superior [Meynerti]
 42 Commissura inferior [Guddeni]
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 44 Fasciculus thalamomamillaris
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| 38 | Gyrus frontalis medius | 77 | Sulcus corporis callosi |
| | 39 Pars superior | 78 | Sulcus cinguli |
| | | 79 | Pars subfrontalis |

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|----|------------------------------------------|----|----------------------------------------------------|
| 1 | Pars marginalis | 39 | Cornu inferius |
| 2 | Sulcus subparietalis | 40 | Corpus striatum |
| 3 | Fissura hippocampi | 41 | Nucleus caudatus |
| 4 | Gyrus fornicatus | 42 | Caput nuclei caudati |
| 5 | Gyrus cinguli | 43 | Cauda nuclei caudati |
| 6 | Isthmus gyri fornicati | 44 | Stria terminalis |
| 7 | Gyrus hippocampi | 45 | Lamina affixa |
| 8 | Uncus [gyri hippocampi] | 46 | Taenia chorioidea |
| 9 | Substantia reticularis alba
[Arnoldi] | 47 | Lamina chorioidea epithelialis |
| 10 | Lobulus paracentralis | 48 | Calcar avis |
| 11 | Praecuneus | 49 | (Bulbus cornu posterioris |
| 12 | Fissura parietooccipitalis | 50 | Eminentia collateralis |
| 13 | Fissura calcarina | 51 | Trigonum collaterale |
| 14 | Cuneus | 52 | Hippocampus |
| 15 | Corpus callosum | 53 | Fimbria hippocampi |
| 16 | Splenium corporis callosi | 54 | Taenia fimbriae |
| 17 | Truncus corporis callosi | 55 | Digitationes hippocampi |
| 18 | Genu corporis callosi | 56 | Fascia dentata hippocampi |
| 19 | Rostrum corporis callosi | 57 | Commissura hippocampi |
| 20 | Lamina rostralis | 58 | Rhinencephalon |
| 21 | Striae transversae | 59 | Sulcus parolfactorius anterior
[rhinencephali] |
| 22 | Stria longitudinalis medialis | 60 | Pars anterior
[rhinencephali] |
| 23 | Stria longitudinalis lateralis | 61 | Lobus olfactorius |
| 24 | Fasciola cinerea | 62 | Bulbus olfactorius |
| 25 | Fornix | 63 | Tractus olfactorius |
| 26 | Crus fornicis | 64 | Trigonum olfactorium |
| 27 | Corpus fornicis | 65 | Stria medialis |
| 28 | Taenia fornicis | 66 | Stria intermedia |
| 29 | Columna fornicis | 67 | Area parolfactoria [Brocae] |
| 30 | Pars libera columnae
fornicis | 68 | Sulcus parolfactorius posterior |
| 31 | Pars tecta columnae
fornicis | 69 | Pars posterior
[rhinencephali] |
| 32 | Septum
pellucidum | 70 | Gyrus subcallosus [Pedunculus
corporis callosi] |
| 33 | Lamina septi pellucidi | 71 | Substantia perforata anterior |
| 34 | Cavum septi pellucidi | 72 | Stria olfactoria lateralis |
| 35 | Ventriculus
lateralis | 73 | Limen insulae |
| 36 | Pars centralis | 74 | <u>Sectiones telencephali</u> |
| 37 | Cornu anterius | 75 | Substantia corticalis |
| 38 | Cornu posterius | 76 | Centrum semiovale |
| | | 77 | Decursus fibrarum cerebrialium |

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| 1 | Fibrae arcuatae cerebri | 34 | Falx cerebri |
| 2 | Cingulum | 35 | Tentorium cerebelli |
| 3 | Fasciculus longitudinalis superior | 36 | Falx cerebelli |
| 4 | Fasciculus longitudinalis inferior | 37 | Diaphragma sellae |
| 5 | Fasciculus uncinatus | 38 | Foramen diaphragmatis [sellae] |
| 6 | Radiatio corporis callosi | 39 | Incisura tentorii |
| 7 | Pars frontalis | 40 | Dura mater spinalis |
| 8 | Pars parietalis | 41 | Filum durae matris spinalis |
| 9 | Pars temporalis | 42 | Cavum epidurale |
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| 13 | Putamen | 46 | Cavum subarachnoideale |
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| 15 | Clastrum | 48 | Cisterna cerebellomedullaris |
| 16 | Capsula externa | 49 | Cisterna fossae lateralis cerebri [Sylvii] |
| 17 | Capsula interna | 50 | Cisterna chiasmatis |
| 18 | Genu capsulae internae | 51 | Cisterna interpeduncularis |
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| 21 | Nucleus amygdalae | 54 | Pia mater spinalis |
| 22 | Corona radiata | 55 | Lig. denticulatum |
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| 24 | Pars parietalis | 57 | Pia mater encephali |
| 25 | Pars temporalis | 58 | Tela chorioidea ventriculi quarti |
| 26 | Pars occipitalis | 59 | Plexus chorioideus ventriculi quarti |
| 27 | Radiatio corporis striati | 60 | Tela chorioidea ventriculi tertii |
| 28 | Radiatio occipitothalamica [Gratioletii] | 61 | Plexus chorioideus ventriculi tertii |
| 29 | Commissura anterior [cerebri] | 62 | Plexus chorioideus ventriculi lateralis |
| 30 | Pars anterior | 63 | Glomus chorioideum |
| 31 | Pars posterior | 64 | Acervulus |
| 32 | MENINGES | | |
| 33 | Dura mater encephali | | |

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1 SYSTEMA NERVORUM PERIPHERICUM

- 2 NERVI CEREBRALES 33 N. infratrochlearis
 34 Ramus palpebralis superior
 35 R. palpebralis inferior
 36 G. ciliare
- 3 NN. OLFACTORII
- 4 N. OPTICUS
- 5 N. OCULOMOTORIUS 37 Nn. ciliares breves
 38 N. maxillaris
- 6 Ramus superior
 7 Ramus inferior 39 N. meningeus [medius]
 40 N. xygomaticus
 41 Ramus zygomaticotemporalis
 42 Ramus zygomaticofacialis
- 8 Radix brevis ganglii ciliaris
 43 Nn. sphenopalatini
 44 Nn. alveolares superiores
 45 Rami alveolares superiores posteriores
 46 N. infraorbitalis
 47 R. alveolaris superior medius
 48 Rami alveolares superiores anteriores
 49 Plexus dentalis superior
 50 Rami dentales superiores
 51 Rami gingivales superiores
 52 Rami palpebrales inferiores
 53 Rami nasales externi
 54 Rami nasales interni
 55 Rami labiales superiores
 56 G a n g l i o n s p h e n o p a l a t i n u m
- 9 N. TROCHLEARIS
- 10 Decussatio nervorum trochlearium
- 11 N. TRIGEMINUS
- 12 Portio major
 13 Ganglion semilunare [Gasseri]
 14 Portio minor
- 15 N. ophthalmicus
- 16 N. tentorii
 17 N. lacrimalis
 18 Ramus anastomoticus cum n. zygomatico
 19 N. frontalis
 20 N. supraorbitalis
 21 Ramus frontalis
 22 N. supratrochlearis
 23 N. nasociliaris
 24 Radix longa ganglii ciliaris
 25 Nn. ciliares longi
 26 N. ethmoidalis posterior
 27 N. ethmoidalis anterior
 28 Rami nasales anteriores
 29 Rami nasales interni
 30 Rami nasales laterales
 31 Rami nasales mediales
 32 Ramus nasalis externus
- 57 Rami orbitales
 58 N. canalis pterygoidei [Vidii]
 59 N. petrosus superficialis major
 60 N. petrosus profundus
 61 Rami nasales posteriores superiores laterales
 62 Rami nasales posteriores superiores mediales
 63 N. nasopalatinus [Scarpa]

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50	Medical entomology	50	Medical entomology

- 1 Rami nasales posteriores inferiores
[laterales]
- 2 Nn. palatini
3 N. palatinus anterior
4 N. palatinus medius
5 N. palatinus posterior
- 6 N. mandibularis
- 7 N. spinosus
- 8 N. masticatorius
9 N. massetericus
10 Nn. temporales profundi
11 N. temporalis profundus posterior
12 N. temporalis profundus anterior
- 13 N. buccinatorius
14 N. pterygoideus externus
15 N. pterygoideus internus
- 16 N. auriculotemporalis
17 N. mentus auditorii externi
18 R. membranae tympani
19 Rami parotidei
20 Rami anastomotici cum n. faciali
21 Nn. auriculares anteriores
22 Rami temporales superficiales
- 23 N. lingualis
24 Rami isthmi faucium
25 Rami anastomotici cum n. hypoglosso
26 N. sublingualis
27 Rami linguales
- 28 N. alveolaris inferior
29 Plexus dentalis inferior
30 Rami dentales inferiores
31 Rami gingivales inferiores
32 N. mylohyoideus
33 N. mentalis
34 Rami mentales
35 Rami labiales inferiores
36 Ganglion oticum
- 37 N. petrosus superficialis minor
- 38 N. tensoris veli palatini
39 N. tensoris tympani
40 Ramus anastomoticus cum n. spinoso
41 R. anastomoticus cum n. auriculotemporalis
42 Ramus anastomoticus cum chorda tympani
43 Ganglion submaxillare
- 44 Rami communicantes cum n. linguales
45 Rami submaxillares
- 46 N. ABDUCENS
47 N. FACIALIS
- 48 Genuculum n. facialis
49 Ganglion geniculi
50 N. s-tapedius
51 Ramus anastomoticus cum plexu tympanico
52 N. auricularis posterior
53 Ramus occipitalis
54 Ramus digastricus
55 Ramus stylohyoideus
- 56 Ramus anastomoticus cum n. glossopharyngeo
57 Plexus parotideus
58 Rami temporales
59 Rami zygomatici
60 Rami buccales
61 Ramus marginalis mandibulae
62 Ramus colli
63 N. i n t e r n e d i u s
- 64 Chorda tympani
65 N. ACUSTICUS
- 66 Radix vestibularis
67 Radix cochlearis
68 Fila anastomotica
69 N. vestibuli
70 Ganglion vestibulare

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- 1 N. utricularis
 2 N. ampullaris superior
 3 N. ampullaris lateralis
 4 N. ampullaris inferior
 5 N. cochleae
 6 Ganglion spirale
 7 N. sacularis
 8 N. GLOSSOPHARYNGEUS
 9 Ganglion superius
 10 Ganglion petrosus
 11 N. tympanicus
 12 Intumescentia tympanica
 13 Plexus tympanicus [Jacobsoni]
 14 N. caroticotympanicus superior
 15 N. caroticotympanicus inferior
 16 Ramus tubae
 17 R. anastomoticus cum ramo auriculari
 n. vagi
 18 Rami pharyngei
 19 Ramus stylopharyngeus
 20 Rami tonsillares
 21 Rami linguales
 22 N. VAGUS
 23 Ganglion jugulare
 24 Ganglion nodosum
 25 Ramus meningeus
 26 Ramus auricularis
 27 R. anastomoticus cum n. glossopharyngeo
 28 Rami pharyngei
 29 Plexus pharyngeus
 30 N. laryngeus superior
 31 Ramus externus
 32 Ramus internus
 33 Ramus anastomoticus cum n. laryngeo inferiore
 34 Rami cardiaci superiores
 35 (N. depressor)
 36 N. recurrens
 37 Rami cardiaci inferiores
 38 Rami tracheales
 39 Rami oesophagei
 40 N. laryngeus inferior
 41 Ramus anterior
 42 Ramus posterior
 43 Rami bronchiales anteriores
 44 Rami bronchiales posteriores
 45 Plexus pulmonalis anterior
 46 Plexus pulmonalis posterior
 47 Rami oesophagei
 48 Plexus oesophageus anterior
 49 Plexus oesophageus posterior
 50 Rami gastrici
 51 Plexus gastricus anterior
 52 Plexus gastricus posterior
 53 Rami hepatici
 54 Rami coeliaci
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- 1 Nn. cervicales
- 2 Rami posteriores
- 3 Ramus medialis
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- 5 N. suboccipitalis
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- 46 Ramus volaris
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- 49 Rami musculares
- 50 N. interosseus [antibrachii] volaris
- 51 Ramus palmaris n. mediani
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- 57 Ramus dorsalis manus
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- 77 Ramus cutaneus medialis

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97. Index of telegrams

98. Index of telegrams

99. Index of telegrams

100. Index of telegrams

- 1 Rami anteriores [Nn. intercostales]
 2 Rami musculares
 3 Ramus cutaneus lateralis
 [pectoralis et abdominalis]
 4 Ramus posterior
 5 Ramus anterior
 6 Rami mammarii laterales
 7 Nn. intercostobrachiales
 8 Ramus cutaneus anterior [pectoralis et abdominalis]
 9 Rami mammarii mediales
- 10 Nn. lumbales, sacrales, coccygeus
 11 Nn. lumbales
 12 Rami posteriores
 13 Ramus medialis
 14 Ramus lateralis
 15 Nn. clunium superiores
 16 Rami anteriores
 17 Nn. sacrales et coccygeus:
 18 Rami posteriores
 19 Ramus medialis
 20 Ramus lateralis
 21 Nn. clunium medii
 22 PLEXUS LUMBOSACRALIS
 23 PLEXUS LUMBALIS
 24 Rami musculares
 25 N. iliohypogastricus
 26 Rami musculares
 27 Ramus cutaneus lateralis
 28 Ramus cutaneus anterior
 29 N. ilioinguinalis
 30 Rami musculares
 31 Nn. scrotales anteriores
 32 Nn. labiales anteriores
 33 N. genitofemoralis
 34 N. lumboinguinalis
 35 N. spermaticus externus
- 36 N. cutaneus femoris lateralis
 37 N. obturatorius
 38 Ramus anterior
 39 Ramus cutaneus
 40 Ramus posterior
 41 N. femoralis
 42 Rami cutanei anteriores
 43 Rami musculares
 44 N. saphenus
 45 Ramus infrapatellaris
 46 Rami cutanei cruris
 mediales
 47 PLEXUS SACRALIS
 48 Truncus lumbosacralis
 49 N. gluteus superior
 50 N. gluteus inferior
 51 N. cutaneus femoris posterior
 52 Nn. clunium inferiores
 53 Rami perineales
 54 N. ischiadicus
 55 Rami musculares
 56 N. peroneus communis
 57 Rami musculares
 58 N. cutaneus surae lateralis
 59 Ramus anastomoticus peroneus
 60 N. peroneus superficialis
 61 Rami musculares
 62 N. cutaneus dorsalis medialis
 63 N. cutaneus dorsalis intermedius
 64 Nn. digitales dorsales pedis
 65 N. peroneus profundus
 66 Rami musculares
 67 Nn. digitales dorsales hallucis lateralis et digiti secundi medialis
 68 N. tibialis
 69 Rami musculares

- | | | | |
|----|-------------------------------------|----|---------------------------------|
| 1 | N. interosseus cruris | 13 | Mn. digitales plantares proprii |
| 2 | N. cutaneus surae medialis | | |
| 3 | N. suralis | 14 | Ramus profundus |
| | 4 Rami calcanei laterales | | |
| 5 | N. cutaneus dorsalis laterales | 15 | PLEXUS PUDENDUS |
| 6 | Rami calcanei mediales | 16 | N. haemorrhoidales medii |
| 7 | N. plantaris medialis | 17 | Mn. vesicales inferiores |
| | 8 Mn. digitales plantares communes | 18 | Mn. vaginales |
| | 9 Mn. digitales plantares proprii | 19 | N. pudendus |
| 10 | N. plantaris lateralis | 20 | Mn. haemorrhoidales inferiores |
| | 11 Ramus superficialis | 21 | N. perinei |
| | 12 Mn. digitales plantares communes | 22 | Mn. scrotales posteriores |
| | | 23 | Mn. labiales posteriores |
| | | 24 | N. dorsalis penis |
| | | 25 | N. dorsalis clitoridis |
| | | 26 | N. COCCYGEUS |
| | | 27 | Plexus coccygeus |
| | | 28 | Mn. anococcygei |

29 SYSTEMA NERVORUM SYMPATHICUM

- | | | | |
|----|--------------------------------------------|----|----------------------------------------|
| 30 | Truncus sympathicus | 47 | Plexus thyreoideus superior |
| 31 | Ganglia trunci sympathici | 48 | Plexus lingualis |
| 32 | Plexus sympathici | 49 | Plexus maxillaris externus |
| 33 | Ganglia plexuum sympathicorum | 50 | Radix sympathica ganglii submaxillaris |
| 34 | PARS CEPHALICA ET CERVICALIS S. SYMPATHICI | 51 | Plexus occipitalis |
| 35 | Ganglion cervicale superius | 52 | Plexus auricularis posterior |
| 36 | N. jugularis | 53 | Plexus temporalis superficialis |
| 37 | N. caroticus internus | 54 | Plexus maxillaris internus |
| 38 | Plexus caroticus internus | 55 | Plexus meningeus |
| 39 | Plexus cavernosus | 56 | Plexus caroticus communis |
| 40 | Plexus arteriae cerebri anterioris | 57 | Rami laryngopharyngei |
| 41 | Plexus arteriae cerebri mediae | 58 | Plexus pharyngeus ascendens |
| 42 | Plexus arteriae chorioideae | 59 | N. cardiacus superior |
| 43 | Plexus ophthalmicus | 60 | Ganglion cervicale medium |
| 44 | Radices sympathicae ganglii ciliaris | 61 | N. cardiacus medius |
| 45 | Mn. carotici externi | 62 | Ganglion cervicale inferius |
| 46 | Plexus caroticus externus | 63 | Ansa subclavia [Vieussenii] |
| | | 64 | N. cardiacus inferior |
| | | 65 | Plexus subclavius |
| | | 66 | Plexus mammarius interus |
| | | 67 | Plexus thyreoideus inferior |
| | | 68 | Plexus vertebralis |

- 1 PARS THORACALIS S.
SYMPATHICI
- 2 Ganglia thoracalia
- 3 N. splanchnicus major
- 4 Ganglion splanchnicum
- 5 N. splanchnicus minor
- 6 Ramus renalis
- 7 (N. splanchnicus imus)
- 8 Plexus aorticus thoracalis
- 9 Plexus cardiacus
- 10 Plexus coronarius cordis anterior
- 11 Ganglion cardiacum [Wrisbergi]
- 12 Plexus coronarius posterior
- 13 Rami pulmonales
- 14 Plexus pulmonalis
- 15 PARS ABDOMINALIS ET PELVINA S.
SYMPATHICI
- 16 Ganglia lumbalia
- 17 Ganglia sacralia
- 18 Plexus aorticus abdominalis
- 19 Plexus coeliacus
- 20 Ganglia coeliaca
- 21 Ganglion mesentericum superius
- 22 Plexus phrenicus
- 23 Ganglia phrenica
- 24 Plexus phrenicus
- 25 Plexus lienalis
- 26 Plexus gastricus superior
- 27 Plexus gastricus inferior
- 28 Plexus suprarenalis
- 29 Plexus renalis
- 30 Plexus spermaticus
- 31 Plexus arteriae ovaricae
- 32 Plexus mesentericus superior
- 33 Plexus myentericus
- 34 Plexus submucosus
- 35 Plexus mesentericus inferior
- 36 Nn. haemorrhoidales superiores
- 37 Plexus iliacus
- 38 Plexus iliacus
- 39 Plexus hypogastricus
- 40 Plexus haemorrhoidalis medius
- 41 Plexus prostaticus
- 42 Plexus deferentialis
- 43 Plexus uterovaginalis
- 44 Plexus vesicalis
- 45 Nn. vesicales superiores
- 46 Nn. vesicales inferiores
- 47 Plexus cavernosus penis
- 48 N. cavernosus penis major
- 49 Nn. cavernosi penis minores
- 50 Plexus cavernosus clitoridis
- 51 N. cavernosus clitoridis major
- 52 Nn. cavernosi clitoridis minores
- 53 Plexus femoralis
- 54 Plexus popliteus

1 ORGAN A SENSUUM ET INTEGUMENTUM COMUNE

2 ORGANON VISUS

3 OCULUS

4 OPTICUS

- 5 Vaginae n. optici
6 Spatia intervaginalia

7 BULBUS OCULI

- 8 Polus anterior
9 Polus posterior
10 Aequator
11 Meridiani
12 Axis oculi externa
13 Axis oculi interna
14 Axis optica
15 [Linea visus]
16 [Vesicula ophthalmica]^x
17 [Caliculus ophthalmicus]^x

TUNICA FIBROSA OCULI

19 Sclera

- 20 Sulcus sclerae
21 Rima cornealis
22 Sinus venosus sclerae [Canalis
Schlemmi, Lauthi]
23 Lamina fusca
24 Lamina cribrosa sclerae
25 (Raphe sclerae)
26 (Funiculus sclerae
27 Cornea
28 Annulus conjunctivae
29 Vertex corneae

- 30 Limbus corneae
31 Facies anterior
32 Facies posterior
33 Epithelium corneae
34 Lamina elastica anterior
[Bowmani]
35 Substantia propria
36 Lamina elastica posterior
[Demoursi, Descemeti]
37 Endothelium camerae anterioris
38 TUNICA VASCULOSA OCULI
39 Chorioidea
40 Lamina suprachorioidea
41 Spatium perichorioideale
42 Lamina vasculosa
43 Lamina choriocapillaris
44 Lamina basalis
45 (Raphe chorioideae)
46 Corpus ciliare
47 Corona ciliaris
48 Processus ciliares
49 Plicae ciliares
50 Orbiculus ciliaris
51 M. ciliaris
52 Fibrae meridionales
[Drueckei]
53 Fibrae circulares
[Muelleri]
54 Plexus gangliosus ciliaris
55 Iris
56 Margo pupillaris
57 Margo ciliaris
58 Facies anterior

- 1 Facies posterior
 2 Annulus iridis major
 3 Annulus iridis minor
 4 Plicae iridis
 5 Pupilla
 6 M. sphincter pupillae
 7 Stroma iridis
 8 M. dilatator pupillae
 9 Lig. pectinatum iridis
 10 Spatia anguli iridis [Fontanae]
 11 Circulus arteriosus major
 12 Circulus arteriosus minor
 13 Membrana pupillaris*
- 14 STRATUM PIGMENTI
 15 Stratum pigmenti retinae
 16 Stratum pigmenti corporis ciliaris
 17 Stratum pigmenti iridis
- 18 RETINA
 19 Pars optica retinae
 20 Ora serrata
 21 Pars ciliaris retinae
 22 Papilla n. optici
 23 Excavatio papillae n. optici
 24 Macula lutea
 25 Fovea centralis
 26 V a s a s a n g u i n e a
 r e t i n a e
 27 Circulus vasculosus n. optici
 [Halleri]
 28 Arteriola [Venula] temporalis
 retinae superior
 29 Arteriola [Venula] temporalis
 retinae inferior
 30 Arteriola [Venula] nasalis ret-
 inae superior
 31 Arteriola [Venula] nasalis ret-
 inae inferior
 32 Arteriola [Venula] macularis su-
 perior
 33 Arteriola [Venula] macularis in-
 ferior
 34 Arteriola [Venula] retinae media-
 lis
- 35 CAMERA OCULI ANTERIOR
 36 Angulus iridis
 [...]
 37 CAMERA OCULI POSTERIOR
 [...]
 38 CORPUS VITREUM
 39 A. hyaloidea*
 40 Canalis hyaloidea
 41 Fossa hyaloidea
 42 Membrana hyaloidea
 43 Stroma vitreum
 44 Humor vitreus
- 45 LENS CRYSTALLINA
 46 Substantia lentis
 47 Substantia corticalis
 48 Nucleus lentis
 49 Fibrae lentis
 50 Epithelium lentis
 51 Capsula lentis
 52 Polus anterior lentis
 53 Polus posterior lentis
 54 Facies anterior lentis
 55 Facies posterior lentis
 56 Axis lentis
 57 Aequator lentis
 58 Radii lentis
- 59 ZONULA CILIARIS [ZINNI]
 60 Fibrae zonulares
 61 Spatia zonularia
 62 ORGANA OCULI ACCESSORIA
Musculi oculi, Fasciae orbitales
 64 M. orbitalis
 65 M. rectus superior
 66 M. rectus inferior
 67 M. rectus medialis
 68 M. rectus lateralis
 69 Locertus musculi recti lateralis
 70 Annulus tendineus communis
 [Zinni]
 71 M. obliquus superior

1 Trochlea

- 2 M. obliquus inferior
 3 M. levator palpebrae superioris
 4 Periobita
 5 Septum orbitale
 6 Fasciae musculares
 7 Fascia bulbi [Tenoni]
 8 Spatium interfasciale [Tenoni]
 9 Corpus adiposum orbitae

10 Supercilium11 Palpebrae

- 12 Palpebra superior
 13 Palpebra inferior
 14 Facies anterior palpebrarum
 15 Facies posterior palpebrarum
 16 Rima palpebrarum
 17 Commissura palpebrarum lateralis
 18 Commissura palpebrarum medialis
 19 Angulus oculi lateralis
 20 Angulus oculi medialis
 21 Limbi palpebrales anteriores
 22 Limbi palpebrales posteriores
 23 Tarsus superior
 24 Tarsus inferior
 25 Lig. palpebrale mediale
 26 Raphe palpebralis lateralis
 27 Glandulae tarsales Meibomi
 28 Sebum palpebrale
 29 M. tarsalis superior
 30 M. tarsalis inferior

31 CONJUNCTIVA

- 32 Plica semilunaris conjunctivae
 33 Caruncula lacrimalis
 34 Tunica conjunctiva bulbi
 35 Tunica conjunctiva palpebrarum
 36 Fornix conjunctivae superior
 37 Fornix conjunctivae palpebrarum
 38 Gl. mucosae [Krausei]
 39 Noduli lymphatici conjunctivales
 40 (Pinguecula)

41 APPARATUS LACRIMALIS

- 42 Glandula lacrimalis superior
 43 Glandula lacrimalis inferior
 44 (Gl. lacrimales accessoriae)
 45 Ductuli excretorii gl.
 lacrimalis
 46 Rivus lacrimalis
 47 Lacus lacrimalis
 48 Functus lacrimalis
 49 Ductus lacrimales
 50 Papillae lacrimales
 51 Ampulla ductus lacrimalis
 52 Saccus lacrimalis
 53 Fornix sacci lacrimalis
 54 Ductus nasolacrimalis
 55 Plica lacrimalis [Hasneri]
 56 Lacrimae

57 ORGANON AUDITUS58 Auris interna

- 59 LABYRINTHUS MEMBRANACEUS
 60 Ductus endolymphaticus
 61 Saccus endolymphaticus
 62 Ductus utriculosaccularis
 63 Utriculus
 64 Ductus semicirculares
 65 Ductus semicircularis
 superior
 66 Ductus semicircularis
 posterior
 67 Ductus semicircularis
 lateralis
 68 Ampullae membranaceae
 69 Sulcus ampullaris
 70 Crista ampullaris
 71 Ampulla membranacea superior
 72 Ampulla membranacea posterior
 73 Ampulla membranacea lateralis
 74 Sacculus
 75 Ductus reuniens [Henseni]
 76 Maculae acusticae
 77 Macula acustica utriculi
 78 Macula acustica sacculi

1. The first part of the report is devoted to a general survey of the situation in the United States. It is found that the number of cases of influenza has increased steadily since the beginning of the year. The mortality has also increased, and is now at a high level. The disease is now spreading rapidly, and is expected to continue for some time.

2. The second part of the report is devoted to a description of the disease. It is found that the disease is characterized by a sudden onset of fever, headache, and general malaise. The respiratory system is affected, and there is a cough and a discharge from the nose. The disease is usually self-limiting, and the patient recovers within a few days.

3. The third part of the report is devoted to a discussion of the causes of the disease. It is found that the disease is caused by a virus which is spread by direct contact with the patient, or by contact with objects which have been contaminated by the virus. The disease is also spread by the air, and is especially common in crowded places.

4. The fourth part of the report is devoted to a discussion of the treatment of the disease. It is found that the disease is usually treated with rest, and the administration of fluids. The use of aspirin is also recommended, and is found to be effective in relieving the fever and the headache.

5. The fifth part of the report is devoted to a discussion of the prevention of the disease. It is found that the disease can be prevented by the use of masks, and by the avoidance of crowded places. The use of disinfectants is also recommended, and is found to be effective in killing the virus.

6. The sixth part of the report is devoted to a discussion of the epidemiology of the disease. It is found that the disease is most common in the winter months, and is especially common in the United States. The disease is also common in other parts of the world, and is especially common in the tropics.

7. The seventh part of the report is devoted to a discussion of the laboratory diagnosis of the disease. It is found that the disease can be diagnosed by the use of the following methods: (1) the use of a virus culture, (2) the use of a virus antigen test, and (3) the use of a virus antibody test.

8. The eighth part of the report is devoted to a discussion of the pathogenesis of the disease. It is found that the disease is caused by the infection of the respiratory tract by the virus. The virus enters the body through the nose, and enters the respiratory tract. The virus then enters the cells of the respiratory tract, and causes the disease.

9. The ninth part of the report is devoted to a discussion of the immunology of the disease. It is found that the disease is caused by a virus which is highly infectious, and which is able to evade the immune system. The disease is also caused by a virus which is highly resistant to heat, and which is able to survive for a long time in the environment.

10. The tenth part of the report is devoted to a discussion of the future of the disease. It is found that the disease is a major public health problem, and that it is necessary to take steps to prevent its spread. The use of masks, and the avoidance of crowded places, are the most effective methods of preventing the disease.

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|----|--------------------------------------|----|-------------------------------------|
| 1 | Otoconia | 43 | Canalis semicircularis superior |
| 2 | Endolympha | 44 | Canalis semicircularis posterior |
| 3 | Perilympha | 45 | Canalis semicircularis lateralis |
| 4 | Spatium perilymphaticum | 46 | Ampullae osseae |
| 5 | Ductus perilymphatici | 47 | Ampulla ossea superior |
| 6 | D u c t u s c o c h l e a r i s | 48 | Ampulla ossea posterior |
| 7 | Caecum cupulare | 49 | Ampulla ossea lateralis |
| 8 | Caecum vestibulare | 50 | Crura ampullaria |
| 9 | Lamina basilaris | 51 | Crus commune |
| 10 | Membrana vestibularis
[Reissneri] | 52 | Crus simplex |
| 11 | Lig. spirale cochleae | 53 | <u>Cochlea</u> |
| 12 | Prominentia spiralis | | |
| 13 | Stria vascularis | 54 | Cupula |
| 14 | Sulcus spiralis | 55 | Basis cochleae |
| 15 | Labium tympanicum | 56 | Canalis spiralis cochleae |
| 16 | Foramina nervosa | 57 | Modiolus |
| 17 | Labium vestibulare | 58 | Basis modioli |
| 18 | Ganglion spirale cochleae | 59 | Lamina modioli |
| 19 | Organon spirale [Cortii] | 60 | Lamina spiralis ossea |
| 20 | V a s a a u r i s
i n t e r n a e | 61 | Hamulus laminae spiralis |
| 21 | A. auditiva interna | 62 | Scala vestibuli |
| 22 | Rami vestibulares | 63 | Scala tympani |
| 23 | Ramus cochleae | 64 | Helicotrema |
| 24 | Glomeruli arteriosi
cochleae | 65 | Lamina spiralis secundaria |
| 25 | Vv. auditivae internae | 66 | Canalis spiralis modioli |
| 26 | V. spiralis modioli | 67 | Canales longitudinales modioli |
| 27 | Vas prominens | 68 | <u>Meatus acusticus internus</u> |
| 28 | Vv vestibulares | 69 | Porus acusticus internus |
| 29 | V. aquaeductus vestibuli | 70 | Fundus meatus acustici interni |
| 30 | V. canaliculi cochleae | 71 | Crista transversa |
| | | 72 | Area n. facialis |
| | | 73 | Area cochleae |
| 31 | <u>LABYRINTHUS OSSEUS</u> | 74 | Tractus spiralis foraminosus |
| | | 75 | Area vestibularis superior |
| 32 | <u>Vestibulum</u> | 76 | Area vestibularis inferior |
| 33 | Recessus sphaericus | 77 | Foramen singulare |
| 34 | Recessus ellipticus | | |
| 35 | Crista vestibuli | 78 | <u>CAVUM TYMPANI</u> |
| 36 | Pyramis vestibuli | 79 | <u>Paries t e g m e n t a l i s</u> |
| 37 | Recessus cochlearis | | |
| 38 | Maculae cribrosae | | |
| 39 | Macula cribrosa sup-
erior | | |
| 40 | Macula cribrosa media | | |
| 41 | Macula cribrosa inferior | | |
| 42 | Canales semicirculares ossei | | |

1	Obituary	43	Obituary
2	Obituary	44	Obituary
3	Obituary	45	Obituary
4	Obituary	46	Obituary
5	Obituary	47	Obituary
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18	Obituary	60	Obituary
19	Obituary	61	Obituary
20	Obituary	62	Obituary
21	Obituary	63	Obituary
22	Obituary	64	Obituary
23	Obituary	65	Obituary
24	Obituary	66	Obituary
25	Obituary	67	Obituary
26	Obituary	68	Obituary
27	Obituary	69	Obituary
28	Obituary	70	Obituary
29	Obituary	71	Obituary
30	Obituary	72	Obituary
31	Obituary	73	Obituary
32	Obituary	74	Obituary
33	Obituary	75	Obituary
34	Obituary	76	Obituary
35	Obituary	77	Obituary
36	Obituary	78	Obituary
37	Obituary	79	Obituary
38	Obituary	80	Obituary
39	Obituary	81	Obituary
40	Obituary	82	Obituary
41	Obituary	83	Obituary
42	Obituary	84	Obituary
43	Obituary	85	Obituary
44	Obituary	86	Obituary
45	Obituary	87	Obituary
46	Obituary	88	Obituary
47	Obituary	89	Obituary
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49	Obituary	91	Obituary
50	Obituary	92	Obituary
51	Obituary	93	Obituary
52	Obituary	94	Obituary
53	Obituary	95	Obituary
54	Obituary	96	Obituary
55	Obituary	97	Obituary
56	Obituary	98	Obituary
57	Obituary	99	Obituary
58	Obituary	100	Obituary

- | | |
|---------------------------------------|-------------------------------------------|
| I Recessus epitympanicus | 39 Stratum radiatum |
| 2 Pars cupularis | 40 Stratum circulare |
| 3 P a r i e s j u g u l a r i s | 41 Stratum mucosum |
| 4 Prominentia styloidea | 42 OSSICULA AUDITUS |
| 5 P a r i e s l a b y r i n t h i c a | 43 S t a p e s |
| 6 Fenestra vestibuli | 44 Capitulum stapedis |
| 7 Fossula fenestrae vestibuli | 45 Crus anterior |
| 8 Promontorium | 46 Crus posterior |
| 9 Sulcus promontorii | 47 Basis stapedis |
| 10 Subiculum promontorii | 48 I n c u s |
| 11 Sinus tympani | 49 Corpus incudis |
| 12 Fenestra cochleae | 50 Crus longum |
| 13 Fossula fenestrae cochleae | 51 P rocessus lenticu- |
| 14 Crista fenestrae cochleae | laris |
| 15 Processus cochleariformis | 52 Crus breve |
| 16 P a r i e s m a s t o i d e a | 53 M a l l e u s |
| 17 Antrum tympanicum | 54 Manubrium mallei |
| 18 Prominentia canalis semicircularis | 55 Capitulum Mallei |
| lateralis | 56 Collum mallei |
| 19 Prominentia canalis facialis | 57 Processus lateralis |
| 20 Eminentia pyramidalis | 58 Processus anterior |
| 21 Fossa incudis | [Folii] |
| 22 Sinus posterior | 59 <u>Articulationes ossiculorum</u> |
| 23 Apertura tympanica canaliculi | <u>auditus</u> |
| chordae | 60 <u>Articulatio incudomalleo-</u> |
| 24 Cellulae mastoideae | <u>laris</u> |
| 25 Cellulae tympanicae | 61 <u>Articulatio incu</u> <u>staped-</u> |
| 26 P a r i e s c a r o t i c a | <u>ia</u> |
| 27 P a r i e s m e m b r a n a c e a | 62 <u>Syndesmosis tympanostaped-</u> |
| 28 <u>Membrana tympani</u> | <u>ia</u> |
| 29 Pars flaccida | 63 <u>Ligg. ossiculorum</u> |
| 30 Pars tensa | <u>auditus</u> |
| 31 Limbus membranae tympani | 64 Lig. mallei anterior |
| 32 Plica malleolaris anterior | 65 Lig. mallei superius |
| 33 Plica malleolaris posterior | 66 Lig. mallei laterale |
| 34 Prominentia malleolaris | 67 Lig. incudis superius |
| 35 Stria malleolaris | 68 Lig. incudis posterior |
| 36 Umbo membranae tympani | 69 Membrana obturatoria |
| 37 Stratum cutaneum | (stapedis) |
| 38 Annulus fibrocartilagineus | 70 Lig. annulare baseos |
| | stap ^e edis |
| | 71 <u>M. fixator baseos stap-</u> |
| | <u>edis</u> |
| | 72 <u>Musculi ossiculorum</u> |
| | <u>auditus</u> |
| | 73 M. tensor tympani |
| | 74 M. stapedius |

Year	Area	Population	Area	Population
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
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1984
1985
1986
1987
1988
1989
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2017
2018
2019
2020

- 1 Tunica mucosa tympanica
- 2 (Gl. tympanicæ)
- 3 Plica malleolaris posterior
- 4 Plica malleolaris anterior
- 5 Recessus membranae tympani anterior
- 6 Recessus tympani membranae superior
- 7 Recessus membranae tympani posterior
- 8 Plica incudis
- 9 Plica stapedis
- 10 Membrana tympani secundaria
- 11 TUBA AUDITIVA [EUSTACHII]
- 12 Ostium tympanicum tubae auditivae
- 13 Pars ossea tubae auditivae
- 14 Isthmus tubae auditivae
- 15 Cellulae pneumaticae tubariae
- 16 Pars cartilaginæ tubae auditivae
- 17 Cartilago tubae auditivae
- 18 Lamina [cartilaginis] medialis
- 19 Lamina [cartilaginis] lateralis
- 20 Lamina membranacea
- 21 Tunica mucosa
- 22 Gl. mucosae
- 23 Noduli lymphatici tubarii
- 24 Ostium pharyngeum tubae auditivae
- 25 MEATUS ACUSTICUS EXTERNUS
- 26 Porus acusticus externus
- 27 Incisura tympanica [Rivini]
- 28 Meatus acusticus externus cartilagineus
- 29 Cartilago meatus acustici
- 30 Incisurae cartilaginis meatus acustici externi [Santorini]
- 31 Lamina tragi
- 32 AURICULAE
- 33 Lobulus auriculæ
- 34 Cartilago auriculæ
- 35 Helix
- 36 Crus heliçis
- 37 Spina heliçis
- 38 Cauda heliçis
- 39 Anthelix
- 40 Fossa triangularis [auriculæ]
- 41 Crura antheliçis
- 42 Scapha
- 43 Concha auriculæ
- 44 Cymba conchae
- 45 Cavum conchae
- 46 Antitragus
- 47 Tragus
- 48 Incisura anterior [auris]
- 49 Incisura intertragica
- 50 (Tuberculum auriculæ [Darwini])
- 51 (Apex auriculæ Darwini)
- 52 Sulcus auriculæ posterior
- 53 (Tuberculum supratragicum)
- 54 Isthmus cartilaginis auris
- 55 Incisura terminalis auris
- 56 Fissura antitragohelicina
- 57 Sulcus antheliçis transversus
- 58 Sulcus cruris heliçis
- 59 Fossa antheliçis
- 60 Eminentia conchae
- 61 Eminentia scaphae
- 62 Eminentia fossae triangularis
- 63 Ligg. auricularia [Valsalvæ]
- 64 Lig. auriculare anterius
- 65 Lig. auriculare superius
- 66 Lig. auriculare posterius
- 67 M. heliçis major
- 68 M. heliçis minor
- 69 M. tragicus
- 70 (M. pyramidalis auriculæ. [Jungi])
- 71 M. antitragicus
- 72 M. transversus auriculæ
- 73 M. obliquus auriculæ
- 74 (M. incisurae heliçis [Santorini])

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2. Theoretical background (2)

3. Methodology (3)

4. Results (4)

5. Discussion (5)

6. Conclusion (6)

7. References (7)

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17. Conflict of interest (17)

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21. Patient consent (21)

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- 1 ORGANON OLFACTUS
- 2 ORGANON GUSTUS
- 3 Calyculi gustatorii
- 4 Integumentum commune
- 5 CUTIS
- 6 Sulci cutis
- 7 Cristae cutis
- 8 Retinacula cutis
- 9 Toruli tactiles
- 10 Foveola coccygea
- 11 Lig. caudale
- 12 Epidermis
- 13 Stratum corneum
- 14 Stratum germinativum [Malpighii]
- 15 Corium
- 16 Tunica propria
- 17 Corpus papillare
- 18 Papillae
- 19 Tela Subcutanea
- 20 Panniculus adiposus
- 21 Corpuscula nervorum terminalia
- 22 Corpuscula bulboidea [Krausii]
- 23 Corpuscula lamellosa [Vateri, Pacini]
- 24 Corpuscula tactus [Meissneri]
- 25 Corpuscula nervorum genitalia
- 26 Corpuscula nervorum articularia
- 27 PILI
- 28 Lanugo
- 29 Capilli
- 30 Supercilia
- 31 Cilia
- 32 Barba
- 33 Tragi
- 34 Vibrissae
- 35 Hirci
- 36 Pubes
- 37 Folliculus pili
- 38 Fundus folliculi pili
- 39 Collum folliculi pili
- 40 Papilla pili
- 41 Scapus pili
- 42 Radix pili
- 43 Bulbus pili
- 44 Mm. arrectores pilorum
- 45 Flumina pilorum
- 46 Vortices pilorum
- 47 (Vortex coccygeus)
- 48 UNGUES
- 49 Matrix unguis
- 50 Cristae matricis unguis
- 51 Sulcus matricis unguis
- 52 Vallum unguis
- 53 Corpus unguis
- 54 Radix unguis
- 55 Lunula
- 56 Margo occultus
- 57 Margo liber
- 58 Margo lateralis
- 59 Stratum corneum unguis
- 60 Stratum germinativum unguis
- 61 GLANDULAE CUTIS
- 62 Gl. glomiformes
- 63 Gl. sudoriferae
- 64 Corpus gl. sudoriferae
- 65 Ductus sudoriferus
- 66 Porus sudoriferus
- 67 Sudor
- 68 Gl. ciliares [Molli]
- 69 Gl. circumanales

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|---|-----------------------------|----|---------------------------------------------|
| 1 | Gl. ceruminosae | 10 | Ductus lactiferi |
| | 2 Cerumen | | 11 Sinus lactiferi |
| | 3 <u>Glandulae sebaceae</u> | 12 | Lac femininum |
| 4 | Sebum cutaneum | 13 | Colostrum |
| | 5 <u>Mamma</u> | 14 | Areola mammae |
| 6 | Papilla mammae | | 15 Gl. sebaceae |
| 7 | Corpus mammae | | 16 Gl. areolares {Montgomerii} |
| 8 | Lobi mammae | 17 | M a m m a v i r i l i s |
| | 9 Lobuli mammae | 18 | (Mammae accessoriae {muliebres et viriles}) |

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CHAPTER II	1	CHAPTER II	1
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CHAPTER IV	1	CHAPTER IV	1
CHAPTER V	1	CHAPTER V	1
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1 REGIONES CORPORIS HUMANI

Auctoribus M e r k e l, R ü d i n g e r, T o l d t.

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|---|-------------------------|---|------------------|
| 2 | Linea mediana anterior | 6 | Linea mamillaris |
| 3 | Linea mediana posterior | 7 | Linea axillaris |
| 4 | Linea sternalis | 8 | Linea scapularis |
| 5 | Linea parasternalis | | |

STATE OF TEXAS

COMMISSIONERS OF THE GENERAL LAND OFFICE

ORDER OF THE COMMISSIONERS OF THE GENERAL LAND OFFICE

WHEREAS the land described in the within and foregoing order of the Surveyor General of the State of Texas, to-wit:

Section 36, Township 33N, Range 10E, County of [Name], State of Texas, is a part of the public lands of the State of Texas, and the same are hereby ordered to be sold at public auction to the highest bidder for cash on the 1st day of [Month], 19[Year].

IN WITNESS WHEREOF, the Commissioners of the General Land Office have hereunto set their hands and the seal of the office at Austin, Texas, this [Date] day of [Month], 19[Year].

COMMISSIONERS OF THE GENERAL LAND OFFICE

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|----|-------------------------------|----|-------------------------------|
| 1 | R e g i o n e s c a p i t i s | 21 | Regio parotideomasseterica |
| 2 | Regio frontalis | 22 | Fossa retromandibularis |
| 3 | Regio supracruralis | 23 | R e g i o n e s c o l l i |
| 4 | Regio parietalis | 24 | Regio colli anterioris |
| 5 | Regio occipitalis | 25 | Regio submentalis |
| 6 | Regio temporalis | 26 | Regio hyoidea |
| 7 | Regio auricularis | 27 | Regio subhyoidea |
| 8 | Regio mastoidea | 28 | Regio laryngea |
| 9 | R e g i o n e s f a c i e i | 29 | Regio thyreoidea |
| 10 | Regio nasalis | 30 | Regio suprasternalis |
| | | | |
| 11 | Regio oralis | 31 | Fossa jugularis |
| 12 | Regio labialis superior | 32 | Regio submaxillaris |
| 13 | Regio labialis inferior | 33 | Fossa carotica |
| 14 | Regio mentalis | 34 | Regio sternocleidomastoidea |
| 15 | Regio orbitalis | 35 | Fossa supraclavicularis minor |
| 16 | Regio palpebralis superior | 36 | Regio colli lateralis |
| 17 | Regio palpebralis inferior | 37 | Fossa supraclavicularis major |
| 18 | Regio infraorbitalis | 38 | Trigonum omoclaviculare |
| 19 | Regio buccalis | 39 | Regio colli posterior |
| 20 | Regio zygomatica | 40 | Regio nuchae |

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|----|-----------------------------|----|----------------------------------|
| 1 | Fovea nuchae | 24 | Regio mediana dorsi |
| 2 | Regiones pectoris | 25 | Regio interscapularis |
| 3 | Regio pectoris anterior | 26 | Regio scapularis |
| 4 | Regio sternalis | 27 | Regio suprascapularis |
| 5 | Regio clavicularis | 28 | Regio infrascapularis |
| 6 | Regio infraclavicularis | 29 | Regio lumbalis |
| 7 | Trigonum deltoideopectorale | 30 | Regio coxae |
| 8 | Regio mammalis | 31 | Regio sacralis |
| 9 | Regio inframammalis | 32 | Regio glutaea |
| 10 | Regio pectoris lateralis | 33 | Regio perinealis |
| 11 | Regio axillaris | 34 | Regio analis |
| 12 | Fossa axillaris | 35 | Regio urogenitalis |
| 13 | Regio costalis lateralis | | |
| 14 | Regiones abdominis | 36 | Regio pudendalis |
| 15 | Regio epigastrica | 37 | Regiones extremitatis superioris |
| 16 | Regio hypochondriaca | 38 | Regio acromialis |
| 17 | Regio mesogastrica | 39 | Regio deltoidea |
| 18 | Regio umbilicalis | 40 | Regio brachii lateralis |
| 19 | Regio abdominalis lateralis | 41 | Regio brachii medialis |
| 20 | Regio hypogastrica | 42 | Regio brachii anterior |
| 21 | Regio publica | 43 | Regio brachii posterior |
| 22 | Regio inguinalis | 44 | Regio cubiti anterior |
| 23 | Regiones dorsii | 45 | Fossa cubitalis |

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|----|-----------------------------------|----|-------------------------------------|
| 1 | Regio cubiti posterior | 21 | Regio femoris medialis |
| | 2 Regio olecrani | 22 | Regio genu anterior |
| 3 | Regio cubiti lateralis | | 23 Regio patellaris |
| 4 | Regio cubiti medialis | 24 | Regio genu posterior |
| 5 | Regio antibrachii volaris | | 25 Fossa poplitea |
| 6 | Regio antibrachii dorsalis | 26 | Regio cruris anterior |
| 7 | Regio antibrachii radialis | 27 | Regio cruris posterior |
| 8 | Regio antibrachii ulnaris | | 28 Regio suralis |
| 9 | Regio dorsalis manus | 29 | Regio cruris lateralis |
| 10 | Regio volaris manus | 30 | Regio cruris medialis |
| 11 | Regiones digitales [manus] | 31 | Regio malleolaris lateralis |
| | 12 Regiones dorsales digitorum | 32 | Regio malleolaris medialis |
| | 13 Regiones unguiculares | | 33 Regio retromalleolaris lateralis |
| | 14 Regiones volares digitorum | | 34 Regio retromalleolaris medialis |
| 15 | Regions of the inferior extremity | 35 | Regio calcanea |
| 16 | Regio femoris anterior | 36 | Regio dorsalis pedis |
| | 17 Fossa subinguinalis | 37 | Regio plantaris pedis |
| 18 | Regio femoris lateralis | 38 | Regiones digitales pedis |
| | 19 Regio trochanterica | 39 | Regiones dorsales digitorum pedis |
| 20 | Regio femoris posterior | 40 | Regiones unguiculares |
| | | 41 | Regiones plantares digitorum pedis |

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