



PUBLICATIONS OF THE TRAINING SCHOOL AT VINELAND NEW JERSEY DEPARTMENT OF RESEARCH

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#### RECORD OF INDIVIDUAL GROWTH A GUIDE TO PARENTS, PHYSICIANS AND TEACHERS

BY DR. PAUL GODIN

CARROLL T. JONES



NO. 9-MARCH 1916

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#### RECORD OF INDIVIDUAL GROWTH

#### A GUIDE TO PARENTS, PHYSICIANS AND TEACHERS

BY DR. PAUL GODIN

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## 

TRANSLATED BY CARROLL T. JONES FELLOW, NEW YORK UNIVERSITY RESEARCH ASSISTANT, THE TRAINING SCHOOL AT VINELAND, N. J.



#### Introduction

The author claims for his Guide that it is indispensible for the proper care of the health, physical development, and education of the child. It furnishes physicians, teachers and parents a complete record of the individual child's growth and development year by year, which should constitute the basis of the preventive measures, the rules of hygiene, and the principles of education and life best adapted to his individuality.

For the detailed method of obtaining and interpreting the data called for by the Record the recorder will find the author's numerous books and articles on the subject of growth invaluable aids. The author's La Croissance pendant l' Age Scolaire (Growth during School Age) and his Le Medecin, l' Enfant, et la Famille (The Physician, the Child, and the Family) are especially recommended.

This record guide satisfies a real need in the mental and physical study of children. It should stimulate parents to a better understanding of their children's natures and tendencies, and the mental and physical causes of behavior. It should encourage teachers to relate the materials and methods of instruction to the individual needs, with due regard for mental and physical hygiene. It should give the physician those allimportant data of personal and family history without which he cannot hope to realize his highest function.

Only by such systematically obtained records can eugenics ever hope to establish itself upon an exact and scientific basis. It is to be hoped that laboratories, clinics and institutions will encourage the extensive use of these records in families, schools and custodial and corrective homes. In particular the Record affords a systematic method for the study and treatment of normal and supernormal children. 416138

| Full name   |
|---|
| Date of birth   |
| Nationality   |
| Place of residence (country)                                |
| Occupation of father  |
| Occupation of child   |
| Stature of father   |
| Age of father   |
| Physiological characteristics inherited from father         |
| ·   |
| Physiological characteristics inherited from mother         |
|   |
|   |
| Hereditary tendencies to disease in father's family         |
|   |
| Hereditary tendencies to disease in mother's family         |
|   |
|   |
| Facts of child's early life                                 |
| Malformations   |
|   |
| Observations (feeding at breast; right or left-handed etc.) |
|   |

(1) See the instructions in regard to this "Record," in the following works: for the teacher—La Croissance pendant L'Age Scolaire in the Collection Actualites pedago-giques, Neuchatel, Delachaux et Niestle, edit. 1913; and for the physician—Le Medecin, l'Enfant, et la Famille, Paris, Maloine, editeur, 1913.

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Notes (1) of the Teacher and Physician

| Date of Observation                                  |   | ····· | <br> | , | <br> |   |
|--|---|-------|------|---|------|---|
| Weight   |   |       |      |   |      |   |
| Sitting height<br>(on a seat 12 in. high) .          |   |       |      |   |      |   |
| Standing height                                      |   |       |      |   | <br> |   |
| Height of opening of ear                             | • |       | <br> |   |      |   |
| "" chin  | • |       |      |   | <br> |   |
| " " top of sternum                                   | • |       | <br> |   | <br> |   |
| " " xiphoid point                                    | • |       |      |   | <br> |   |
| " " navel  | • |       |      |   | <br> |   |
| """ symphysis pubis .                                | • |       | <br> |   | <br> |   |
| " " greater trochanter .                             | • |       | <br> |   | <br> |   |
| " " knee   | • |       | <br> |   | <br> |   |
| " " ankle  | • |       | <br> |   | <br> |   |
| ""shoulder   | • |       | <br> |   | <br> |   |
| " " elbow  | • |       |      |   | <br> |   |
| ""wrist joint  | • |       | <br> |   | <br> |   |
| """ middle finger                                    | • |       | <br> |   | <br> |   |
| Bi-acromial diameter                                 |   |       |      |   |      |   |
| Anterior-posterior thoracic<br>diameter              |   |       |      |   | <br> |   |
| Transverse thoracic diameter<br>(chest not expanded) | • |       |      |   |      |   |
| Transverse thoracic diameter .<br>(chest expanded)   | • |       |      |   | <br> | 1 |
| Diameter of hody at hits                             |   |       |      |   |      |   |
| " " arms (just above                                 | • |       | <br> |   | <br> |   |
| elbow)   | • |       | <br> |   |      |   |

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Notes (1) of the Teacher and Physician.

#### Date of Observation

|   |   | <br> |  |   | <br> |
|---|---|------|--|---|------|
| Diameter of legs (just above knee)                        |   |      |  | • |      |
| Anterior-posterior diameter of cranium                    |   | <br> |  |   |      |
| Transverse diameter of cranium<br>(maximum)               |   |      |  |   |      |
| Vertical diameter of cranium                              |   |      |  |   |      |
| Circumference of forearm<br>(maximum)                     |   |      |  |   | <br> |
| Circumference of forearm<br>(minimum)                     |   |      |  |   |      |
| Thoracic circumference (chest expanded)                   |   |      |  |   | <br> |
| Thoracic circumference (chest<br>not expanded)            |   | <br> |  |   | <br> |
| Length of hand  |   |      |  | • |      |
| Length of foot  |   |      |  |   |      |
| Width of hand   |   |      |  |   |      |
| Width of foot   |   |      |  |   |      |
| Status presens (2)  |   |      |  |   |      |
| Present diseases  |   |      |  |   |      |
| Peculiarities (teeth)<br>(Development partially retarded) |   | <br> |  |   | <br> |
| Malformations   |   |      |  |   |      |
| Obesity   |   |      |  |   |      |
| Excessive growth of hair, location                        |   |      |  |   |      |
| Development of genital organs .                           |   |      |  |   |      |
| Color of skin   |   |      |  |   |      |
| Thickness of skin   | 1 | <br> |  |   | <br> |

(2) Tall, short, medium height; tall-stout, tall-thin, tall-heavily built and the same for short and medium height.

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Notes (1) of the Teacher and Physician.

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|---|---------------|-------------|----------|-------------|--|
| Color of hair   |               |             |          |             |  |
| " " eyes  |               |             |          |             |  |
| Change of voice   |               |             |          |             |  |
| General strength (wrestling,<br>dumb-bells)                       |               |             |          |             |  |
| General strength (by the dynamometer)                             |               |             |          |             |  |
| Agility $\ldots$  |               |             |          |             |  |
| Standing broad jump   |               |             |          |             |  |
| Index for physical fatigue $\frac{r}{e}(3)$ As                    |               |             |          |             |  |
| <i>Temperament</i> E (4)  |               |             |          |             |  |
| Humor on waking H (5)   |               |             |          |             |  |
| Deportment  |               |             |          |             |  |
| Attention   |               |             |          |             |  |
| Intelligence I  |               |             |          |             |  |
| Memory m  |               |             |          |             |  |
| Index of mental fatigue $\frac{r}{e}(3)Ac$                        |               |             |          |             |  |
| S (length of lower limbs)   |               |             |          |             |  |
| B (sitting height)  |               |             |          |             |  |
| C (cranial volume)  |               |             |          |             |  |
| V (volume of trunk)<br>used as an index of volume of vital organs |               |             |          |             |  |
| O (sum of the lengths of the upper and lower limbs)               |               |             |          |             |  |
| (3) In minutes, r=time of rest nec                                | essary for re | cuperation. | e=time o | of exertion |  |

(4) Energy shown in action; 1, very little energy; moderate amount of energy; 5,

very great energy. (5) Bright, 4; very bright, 5; indifferent, 3; depressed, 2; very much depressed, 1.



Notes (1) of the Teacher and Physician.

| INDIVIDU   | AL GROWIN |
|--|-----------|
| Date of Observation                                    |           |
| Weight   |           |
| Sitting height<br>(on a seat 12 in. high)              |           |
| Standing height  |           |
| Height of opening of ear                               |           |
| "" chin  |           |
| " " top of sternum                                     |           |
| "" " xiphoid point                                     |           |
| " " navel  |           |
| "" symphysis pubis                                     |           |
| " " greater trochanter                                 |           |
| "" knee  |           |
| """ ankle  |           |
| "" " shoulder  |           |
| "'' elbow  |           |
| "" " wrist joint                                       |           |
| """ middle finger                                      |           |
| Bi-acromial diameter                                   |           |
| Anterior-posterior thoracic<br>diameter                |           |
| Transverse thoracic diameter .<br>(chest not expanded) |           |
| Transverse thoracic diameter<br>(chest expanded)       |           |
| Diameter of body at hips                               |           |
| """ arms (just above<br>elbow)                         |           |

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12 INDIVIDUAL GROWTH

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Notes (1) of the Teacher and Physician.

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#### **Date of Observation** Diameter of legs (just above knee) Anterior-posterior diameter of cranium Transverse diameter of cranium (maximum) Vertical diameter of cranium Circumference of forearm (maximum) Circumference of forearm (minimum) Thoracic circumference (chest expanded) Thoracic circumference (chest not expanded) Length of hand Length of foot Width of hand Width of foot Status presens (2) Present diseases Peculiarities (teeth) (Development partially retarded) **Malformations** Obesity Excessive growth of hair, location Development of genital organs Color of skin . Thickness of skin .

(2) Tall, short, medium height; tall-stout, tall-thin, tall-heavily built and the same for short and medium height.

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| Color of hair   | <br> | <br> | <br> |  |
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| "" " eyes   | <br> | <br> | <br> |  |
| Change of voice   |      |      |      |  |
| General strength (wrestling,<br>dumb-bells)                       | <br> | <br> |      |  |
| General strength (bv the dynamometer)                             | <br> |      |      |  |
| Agility   | <br> |      | <br> |  |
| Standing broad jump   |      |      |      |  |
| Index for physical fatigue $\frac{r}{e}$ (3) As                   |      |      |      |  |
| Temperament E (4)   |      |      |      |  |
| Humor on waking H (5)   |      |      |      |  |
| Deportment ,  | <br> | <br> | <br> |  |
| Attention   |      | <br> | <br> |  |
| Intelligence I  | <br> | <br> | <br> |  |
| Memory m  |      |      |      |  |
| Index of mental fatigue $\frac{r}{e}(3)$ Ac                       |      |      |      |  |
| S (length of lower limbs)   |      |      |      |  |
| B (sitting height)  |      |      |      |  |
| C (cranial volume)  |      |      |      |  |
| V (volume of trunk)<br>used as an index of volume of vital organs |      |      |      |  |
| O (sum of the lengths of the upper and lower limbs)               | <br> | 1    |      |  |

(3) In minutes, r=time of rest necessary for recuperation, e=time of exertion.
(4) Energy shown in action; 1, very little energy; moderate amount of energy; 5, (5) Bright, 4; very bright, 5; indifferent, 3; depressed, 2; very much depressed, 1.

As=somatic activity. Ac=cerebral activity.

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Notes of the Teacher and Physician (1).

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#### INDIVIDUAL FORMULA

| Date | Age | S<br>B | $\frac{c}{v}$ | $\frac{o}{v}$ | Age<br>of<br>pub-<br>erty | M | R   | Е | н | I | m | Ав | Ac | D(6) |
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M=difference between maximal and minimal circumferences of fore-arm (used as an index of muscular development.) R=thoracic diameter expanded, divided by thoracic diameter normal.

### INDIVIDUAL FORMULA

| Date | Age | S<br>B | $\frac{c}{v}$ | $\frac{0}{\mathbf{v}}$ | Age<br>of<br>pub-<br>erty | M | R | Е | Н | I | m | As | Ac | <b>D</b> (6) |
|------|-----|--------|---------------|------------------------|---------------------------|---|---|---|---|---|---|----|----|--------------|
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(6) Bodily defect: 1, slight; 3, moderate; 5, serious.

| Date of Observation      |      |      | <br> |  |
|--------------------------|------|------|------|--|
| Keenness of vision       | <br> | <br> | <br> |  |
| " " hearing              | <br> | <br> |      |  |
| Digestive organs (teeth) | <br> | <br> |      |  |
| Respiratory organs       |      |      |      |  |
| Circulatory system       | <br> | <br> | <br> |  |
| Genilo-urinary organs    | <br> | <br> | <br> |  |
| Organs of locomotion     |      |      |      |  |
| Nervous system           |      |      |      |  |
| facility in moving       |      |      |      |  |
| reflexes                 |      |      |      |  |
| sensibility              |      |      |      |  |
| sense organs             |      |      |      |  |
| vaso-motor condition     |      |      |      |  |
| sudoral condition        |      |      |      |  |
| trophic condition        |      |      |      |  |
| intelligenc <b>e .</b>   |      |      |      |  |
| Skin                     |      |      |      |  |
| Nutrition                | <br> |      |      |  |
| Diatheses                |      |      |      |  |

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Child at different periods of his development compared







Clinical Notes of the Physician (7).

7 The details of the clinical examination may be written on the blank pages.

| Chemical characteristics of the sputum (Albumin reaction, etc.)     |  |
|---|--|
| Microscopic characteristics   |  |
| Characteristics of the blood,<br>chemical                           |  |
| Characteristics of the blood,<br>biological                         |  |
| Characteristics of the urine and other urological reports           |  |
| Abnormal elements   |  |
| Characteristics of the excreta<br>(physical, chemical, microscopic) |  |
| Tuberculin reaction   |  |
| Wassermann reaction   |  |
| Vaccinated for small pox  |  |
| " " diphtheria  |  |
| "" typhoid  |  |
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| Organotherapy by  |  |
| Anaphylaxis   |  |
| Characteristics of all illnesses .                                  |  |
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| Time confined in bed  |  |

#### Clinical Notes of the Physician (7)

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| Keenness of vision       |   | <br> |      |   |   |
| " " hearing              |   | <br> | <br> |   |   |
| Digestive organs (teeth) |   | <br> | <br> |   |   |
| Respiratory organs       |   |      | <br> |   |   |
| Circulatory system       |   | <br> |      |   |   |
| Genito-urinary organs    |   |      | <br> |   |   |
| Organs of locomotion     |   | <br> |      |   |   |
| Nervous system           |   |      |      |   |   |
| facility in moving       |   | <br> |      |   | 1 |
| reflexes                 | • |      |      |   |   |
| sensibility              |   |      |      |   |   |
| sense organs             |   |      |      |   |   |
| vaso-motor condition     |   |      |      |   |   |
| sudoral condition        |   |      |      |   |   |
| trophic condition        |   |      |      |   |   |
| intelligence             |   |      |      | • |   |
| Skin                     |   |      |      |   |   |
| Nutrition                |   |      |      |   |   |
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Clinical Notes of the Physician (7).

| Chemical characteristics of the sputum (Albumin reaction, etc.)     |  |
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| Microscopic eharacteristics   |  |
| Characteristics of the blood,<br>chemical                           |  |
| Characteristics of the blood,<br>biological                         |  |
| Characteristics of the urine and other urological reports           |  |
| Abnormal elements   |  |
| Characteristics of the excreta<br>(physical, chemical, microscopic) |  |
| Tuberculin reaction   |  |
| Wassermann reaction   |  |
| Vaccinated for small pox  |  |
| " " diphtheria  |  |
| " " typhoid   |  |
| " " rabies  |  |
|   |  |
| Organotherapy by  |  |
| Anaphylaxis   |  |
| Characteristics of all illnesses .                                  |  |
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| Time confined in bed  |  |

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Clinical Notes of the Physician (7).

HALF SILHOUETTES\*



\*See figure (1)

|     | 2 | yrs. |       |    | 2 1-2 | yrs. |   | 3   | yrs. |   | 3 1-2 | yrs. |
|-----|---|------|-------|----|-------|------|---|-----|------|---|-------|------|
| 2   | 0 | 10   | 0     | 20 | ) 10  | 0    | 2 | 0 1 | 0 0  | 2 | 0 10  | 0 0  |
| 190 |   |      |       |    |       |      |   |     | _    | - |       |      |
| 180 |   | ·    |       |    |       |      |   |     |      |   |       |      |
| 170 |   | -    | _ -   |    |       |      |   |     | -    |   |       |      |
| 160 |   | _    | _ -   |    |       |      |   |     | -    |   |       |      |
| 150 |   |      |       |    |       |      |   |     | -    |   |       |      |
| 140 |   |      | _ -   |    |       |      |   |     |      |   |       |      |
| 130 |   | -    | _ -   |    |       |      |   |     |      |   |       |      |
| 120 |   | -    |       |    |       |      |   |     |      |   |       |      |
| 110 |   | -    |       |    |       |      |   |     |      |   |       |      |
| 100 |   | -    |       |    |       |      |   |     |      |   |       |      |
| 90  |   |      | -   - |    |       |      |   |     |      |   |       |      |
| 80  |   | •    | _     |    |       |      |   |     |      |   |       |      |
| 70  |   | -    | _ -   |    |       |      |   |     |      |   |       |      |
| 60  |   | -    |       |    |       |      |   |     |      |   |       |      |
| 50  |   | -    |       |    |       |      |   |     |      |   |       |      |
| 40  |   |      | - -   |    |       |      |   |     |      |   |       |      |
| 30  |   | -    | -   - |    |       |      |   |     |      |   |       |      |
| 20  |   | -    |       |    |       |      |   |     |      |   |       |      |
| 10  |   | -    |       |    |       |      |   |     |      |   |       |      |

HALF SILHOUETTES





|     |    |        | HA | ALF | SILH   | IOUI    | ETTE | S    |   |    |        |            |
|-----|----|--------|----|-----|--------|---------|------|------|---|----|--------|------------|
|     | 20 | 6 yrs. | 0  | 20  | 1-2 yr | s.<br>0 | 20   | yrs. |   | 20 | 1-2 yr | <b>s</b> . |
|     |    |        |    |     |        |         |      |      |   |    |        |            |
| 190 |    |        | _  |     |        |         |      |      |   | _  | _      |            |
| 189 |    |        |    |     |        |         |      | _    |   |    |        |            |
| 170 |    |        |    |     |        |         |      |      |   |    |        |            |
| 160 |    |        |    |     |        |         |      |      |   | •  |        |            |
| 100 |    |        | _  |     |        |         |      |      |   |    |        |            |
| 150 |    | _      |    |     |        | _       |      |      |   |    |        | -          |
| 140 |    |        |    |     |        |         |      | _    |   | _  | _      |            |
| 130 |    | _      | _  |     |        |         |      |      |   | _  | _      |            |
| 120 |    |        |    |     |        |         |      |      |   |    |        |            |
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| 90  |    |        |    |     |        |         |      | _    |   | _  | _      |            |
| 80  |    |        |    |     |        |         |      |      |   | _  |        |            |
| 70  |    |        |    |     |        |         |      |      |   |    |        |            |
| (0) |    | _      |    |     | _      |         |      |      |   |    |        |            |
| 00  |    |        | _  |     |        |         | _    | -    | _ |    |        | -          |
| 50  |    |        | _  |     |        |         |      |      |   | _  |        | -          |
| 40  |    | _      |    |     |        |         |      | _    | _ | _  |        |            |
| 30  |    |        |    |     |        |         |      |      |   | _  |        |            |
| 20  |    |        |    |     |        |         |      |      |   |    |        |            |
| 10  |    | _      |    |     |        |         |      | _    |   |    |        |            |
| 10  |    | _      |    |     |        |         |      |      | _ | _  |        | -          |
| 0   |    |        |    |     |        |         |      |      |   |    |        |            |

#### HALF SILHOUETTES\*



\*See figure (1)

|     |    |      | H           | AL | F | SII | _H | O | UEI |    | ES   |  |     |          |     |      |   |
|-----|----|------|-------------|----|---|-----|----|---|-----|----|------|--|-----|----------|-----|------|---|
|     | 10 | yrs. | 10 1-2 yrs. |    |   |     |    |   | :   | 11 | yrs. |  |     | 11       | 1-2 | yrs. |   |
| 20  | 1  | 10   | 0           | 20 | ) | 10  |    | 0 | -   | 20 | 10   |  | 0   | 20       | )   | 10   | 0 |
| 190 |    | -    |             |    | - | -   |    |   |     | _  |      |  | _   |          |     |      |   |
| 189 |    | -    |             |    |   |     |    |   |     | _  |      |  |     |          |     |      |   |
| 170 |    | _    | _           |    |   |     |    |   |     | -  |      |  |     |          |     |      |   |
| 160 |    | _    | _ _         |    |   |     |    | _ |     | _  |      |  |     |          |     |      |   |
| 150 |    |      |             |    |   |     |    |   |     | _  |      |  | _   |          |     |      |   |
| 140 |    |      |             |    |   |     |    | ~ |     | -  |      |  | _   |          |     |      |   |
| 130 |    | -    | _   _       |    |   |     |    |   |     | _  |      |  | _   |          |     |      |   |
| 120 |    | -    |             |    |   |     |    |   |     | _  | _    |  | _   | <u> </u> |     |      |   |
| 110 |    |      |             |    |   |     |    | _ |     |    |      |  | -   |          |     |      |   |
| 100 |    |      |             |    |   |     |    |   |     | _  |      |  | _   |          |     | _    |   |
| 90  |    | -    |             |    |   |     |    |   |     | -  |      |  |     |          |     |      |   |
| 80  |    | -    |             |    |   |     |    |   |     | -  |      |  |     |          |     | _    |   |
| 70  |    | -    |             |    |   |     | _  |   |     | _  |      |  |     |          |     |      |   |
| 60  |    | -    |             |    |   |     |    | _ |     | -  | —    |  | _   |          |     |      |   |
| 50  |    |      | _           |    |   |     |    |   |     | -  |      |  | - - |          |     |      |   |
| 30  |    |      |             |    |   | _   |    | - |     | -  |      |  |     |          |     |      |   |
| 20  |    |      |             |    |   |     |    |   |     |    |      |  |     |          |     |      |   |
| 10  |    | -    |             |    |   | _   |    | - |     | -  |      |  |     |          |     |      |   |
| 0   |    | -    | _           |    |   |     | -  |   |     | -  |      |  |     |          |     |      |   |



\*See figure (1)

|       | 14 vrs. | n   | ALF<br>14 | 14 1-2 vrs. |   |    | LO<br>16 vr | 8. | 15 1-2 vrs. |    |   |
|-------|---------|-----|-----------|-------------|---|----|-------------|----|-------------|----|---|
| 20    | 10      | 0   | 20        | 10          | 0 | 20 | 10          | 0  | 20          | 10 | 0 |
| 190   |         | -   |           |             |   |    |             |    |             |    |   |
| 189   |         |     |           |             |   |    |             |    |             |    |   |
| 170 _ |         |     |           |             |   |    |             |    |             |    |   |
| 160   |         | _ _ |           |             |   |    |             |    |             |    |   |
| 150 _ |         |     |           |             |   |    |             |    |             |    |   |
| 140   |         |     |           |             |   |    |             |    |             |    |   |
| 130   |         |     |           |             |   |    |             |    |             |    | 0 |
| 120   |         |     |           |             |   |    |             |    |             |    |   |
| 110   |         |     |           |             |   |    |             |    |             |    | 1 |
| 100   |         |     |           |             |   |    |             |    |             |    |   |
| 90    |         |     |           |             |   |    |             |    |             |    |   |
| 80    |         |     |           |             |   |    |             |    |             |    |   |
| 70    |         |     |           |             |   |    |             |    |             |    |   |
| 60    |         |     |           |             |   |    |             |    |             |    |   |
| 50    |         |     |           |             |   |    |             |    |             |    |   |
| 40    |         |     | (         |             |   |    |             |    |             |    |   |
| 30    |         |     |           |             |   |    |             |    |             |    |   |
| 20    |         |     |           |             |   |    |             |    |             |    |   |
| 10    |         |     |           |             |   |    |             |    |             |    |   |
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#### HALF SILHOUETTES\*



\*See figure (1)

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#### HALF SILHOUETTES 19 1-2 yrs. 18 yrs. 18 1-2 yrs. 19 yrs. 20 10 0 20 10 0 20 10 0 .



\*See figure (1)

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#### HALF SILHOUETTES

| 22 yrs. |   |     |   | 22 1-2 yrs. |    |   | 23 y | rs.  |   | 23 1-2 yrs. |      |   |
|---------|---|-----|---|-------------|----|---|------|------|---|-------------|------|---|
| 20      | ) | 10  | 0 | 20          | 10 | 0 | 20   | ) 10 | 0 | 20          | ) 10 | 0 |
| 190     |   | _   |   | - 20        |    |   |      |      |   |             |      |   |
| 189     |   | _   |   |             |    |   |      |      |   |             |      |   |
| 170     |   | _   |   |             |    |   |      |      |   |             |      |   |
| 160     |   | _   |   |             |    |   |      |      |   |             | •    |   |
| 150     |   |     |   |             |    |   |      |      |   |             |      |   |
| 140     |   | -   |   |             |    |   |      |      |   |             |      |   |
| 130     |   | _   |   |             |    |   |      |      |   |             |      |   |
| 120     |   |     |   |             |    |   |      |      |   |             |      |   |
| 100     |   | · · |   |             |    |   |      |      | • |             |      |   |
| 90      |   |     |   |             |    |   |      |      |   | 1           |      |   |
| 80      |   |     |   |             |    |   |      |      |   |             |      |   |
| 70      |   | _   |   |             |    |   |      |      |   |             |      |   |
| 60      |   | _   |   |             |    |   | •    |      |   |             |      |   |
| 50      |   | _   |   |             |    |   |      |      |   |             | <br> |   |
| 40      |   | _   |   |             |    |   |      |      |   |             |      |   |
| 30      |   | _   |   |             |    |   |      |      |   |             |      |   |
| 20      |   |     |   |             |    |   |      |      |   |             |      |   |
| 10      |   | -   | _ |             |    |   |      |      |   |             |      |   |
| 0       |   |     |   |             |    |   |      |      |   |             |      |   |

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