

FACTORS INFLUENCING THE GROWTH AND NUTRITIONAL STATUS
OF INFANTS AND YOUNG CHILDREN IN RURAL JORDAN

- APPENDICES -

By

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APPENDIX 1

A SURVEY OF GROWTH IN THE PRE-SCHOOL CHILD IN JORDAN

SPONSORED AND CONDUCTED BY

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Name of Child _____

Address _____

1. Serial Number _____

2. Date of Interview: Day _____

Month _____ Year _____

3. Date of Birth: Day _____

Month _____ Year _____

4. Sex: Male _____ Female _____

5. Respondent relation to child:

A. Mother _____

B. Father _____

C. Other _____

(Specify _____)

6. People who live in the same house: (list all the people who usually live in the same house, including parents, the present child, any other children and any other adults who are members of the same household).

Age (year) Relationship to child

1

2

3

4

5

6

7

8

9

10

11

12

From this list mark:

- a. Total number of members in the household _____
 - b. Number of children less than 15 years old _____
 - c. Child's position among other children in the family
(for eldest child write '1' and '99' if you don't know)

 - d. Mother's age (in years) _____
 - e. Father's age (in years) _____
 - f. What is the average period between each pregnancy
(in years) _____
7. Mother: The person acting as a mother to the child
(responsible for the family), what is her
relationship to the child:
1. Real mother _____
 2. Mother by legal adoption _____
 3. Stepmother _____
 4. Grandmother _____
 5. Eldest sister _____
 6. Other (specify) _____
 9. Don't know _____
8. Father: The person acting as a father to the child
(responsible for the family), what is his
relationship to the child:
1. Real father _____
 2. Father by legal adoption _____
 3. Stepfather _____
 4. Grandfather _____
 5. Eldest brother _____
 6. Other (specify) _____
 9. Don't know _____

9. Please state marital status of mother:
1. Married _____
 2. Widowed _____
 3. Divorced/separated _____
 9. Not sure _____
10. If the man is married how many other wives are there in the house or elsewhere (excluding the present wife):
1. None _____
 2. One _____
 3. Two _____
 4. Three _____
 9. Don't know _____
11. Indicate the relationship of mother to father:
1. First cousins _____
 2. 2nd and 3rd cousins _____
 3. Distantly related or not related _____
 9. Don't know _____
12. What is the educational status of the mother:
1. Illiterate _____
 2. Reads and writes without going to school _____
 3. Primary school _____
 4. Preparatory school _____
 5. Secondary school _____
 6. Professional, technical, trade or teachers' school _____
 7. University _____
 8. Other _____
 9. Don't know _____
13. Age of mother when married _____
- Questions 14 - 26 are now addressed to the mother
14. Are you doing a paid job:
1. Yes _____
 2. No _____
 9. Don't know _____

15. If the answer to no. 14 is 'Yes', what type of work are you doing:

16. What is the net monthly income:

- 1. Under 9.99 dinars _____
- 2. From 10 - 19.99 dinars _____
- 3. From 20 - 29.99 dinars _____
- 4. From 30 - 39.99 dinars _____
- 5. From 40 - 49.99 dinars _____
- 9. No reply _____

17. Did a nurse or midwife visit you at all during the last pregnancy:

- 1. Yes _____
- 2. No _____
- 9. Don't know _____

18. Did you visit a MCH centre during the last pregnancy:

- 1. Yes _____
- 2. No _____
- 9. Don't know _____

19. If the answer to no. 18 is 'Yes', when did you first visit the MCH centre during the last pregnancy:

- 1. When you were less than three months pregnant _____
- 2. When you were three - six months pregnant _____
- 3. When you were six - nine months pregnant _____
- 9. Don't know _____

20. How many times in your life have you been pregnant:

21. How many of your children were born alive:

(Number still born, if any _____ Number of abortions, if any _____)

22. Of those born alive, have any of the children died since:

- 1. Yes _____
- 2. No _____
- 9. Don't know _____

If the answer is 'Yes', how many children died at the age of:

Less than one month _____

From one month to one year _____

From one year to four years _____

Over four years _____

The number is not known _____

23. Would you like to have more children than you have now:
1. Yes _____
 2. No _____
 9. Don't know _____
24. If the answer to no. 23 is 'No', have you used any contraceptive means:
1. Yes _____
 2. No _____
 9. Don't know _____
25. If the answer to no. 24 is 'Yes', indicate the last contraceptive means used:
1. Contraceptive pill _____
 2. IUD _____
 3. Other (specify) _____
 9. Don't know _____
26. Are you expecting a baby now:
1. Yes _____
 2. No _____
 3. Not indicated _____
 9. Don't know _____
27. What is the educational status of the father:
1. Illiterate _____
 2. Reads, writes, but has not joined any official school _____
 3. Elementary school _____
 4. Preparatory school _____
 5. Secondary school _____
 6. Industrial, trade or teachers' school _____
 7. University _____
 8. Other _____
 9. Don't know _____

28. What is the religion and origin of the father:

1. Moslem Jordanian _____
2. Moslem Palestinian _____
3. Christian Jordanian _____
4. Christian Palestinian _____
5. Other _____
9. Not sure _____

29. What is the profession of the father:

30. Is the work of the father:

1. Permanent _____
2. Temporary _____
9. Don't know _____

31. What is the net income of the father:

1. Under 9.99 dinars _____
2. From 10 - 19.99 dinars _____
3. From 20 - 29.99 dinars _____
4. From 30 - 39.99 dinars _____
5. From 40 - 49.99 dinars _____
6. 50 dinars and up _____
9. Don't know _____

REGISTER THE SOCIAL CLASS: _____

Card No. 2 Serial No.: _____

32. Is the house where the father lives his own:

1. Yes _____
2. No _____
9. Don't know _____

33. If the answer to no. 32 is 'No', then how much rent do you pay monthly:

1. Nothing _____
2. Up to 5 dinars _____
3. From 5 - 10 dinars _____
4. From 10 - 15 dinars _____
5. 15 dinars and up _____
9. Don't know _____

34. How many rooms in your house (excluding the kitchen, toilet and bathroom unless the kitchen is used as a bedroom)
- _____
35. Does your house have:
- | | Yes | No |
|--------------|-------|-------|
| Bathroom | _____ | _____ |
| Toilet | _____ | _____ |
| Refrigerator | _____ | _____ |
| Butane gas | _____ | _____ |
36. If there is a latrine in your house indicate the kind:
1. Latrine (soil ditch) _____
 2. Latrine (cement) _____
 3. Modern latrine with septic tank _____
 9. Don't know _____
37. Source of water in the house:
1. Municipal tap in the house _____
 2. Public tap in the village _____
 3. Public spring in the village _____
 4. Collection well _____
 9. Other (specify) _____
38. Is there electricity in the house:
1. Yes _____
 2. No _____
 9. Not sure _____
39. Equipment and means of cooking in the house:
1. Wood fire _____
 2. Kerosene _____
 3. Butane gas _____
 9. Other (specify) _____
40. Do you own a piece of land:
1. Yes _____
 2. No _____
 9. Don't know _____

41. If you own a piece of land, how many dunums:
(1 dunum = 1,000 sq.m.)
1. Up to 5 dunums _____
 2. 5 - 9 dunums _____
 3. 10 - 14 dunums _____
 4. 15 - 19 dunums _____
 5. 20 - 24 dunums _____
 6. 25 - 29 dunums _____
 7. 30 dunums and up _____ (register the quantity)
 9. Don't know _____
42. Do you get any other income other than your monthly salary:
1. Yes _____
 2. No _____
 9. Don't know _____
43. Where was this child born:
1. House _____
 2. Hospital _____
 3. Other _____
 9. Don't know _____
44. Who did the delivery:
1. The mother herself _____
 2. An experienced woman in the village _____
 3. Midwife or nurse _____
 4. Doctor _____
 5. Other (specify) _____
 9. Don't know _____
45. Was this a single birth:
1. Yes _____
 2. No _____
 9. Don't know _____

46. If the answer to no. 45 is 'No', is the other child still living:
1. Yes _____
 2. No _____
 9. Don't know _____
47. Have you ever taken this child to the MCH centre:
1. Yes _____
 2. No _____
 9. Don't know _____
48. If the answer to no. 47 is 'Yes', how old was the child when he was first taken to the MCH centre:
1. Less than one month _____
 2. 1 - 6 months _____
 3. 6 - 12 months _____
 4. Over one year _____
 9. Don't know _____
49. Has this child ever been given a vaccination:
- A. The triple injection (1) Yes _____ (2) No _____ (9) Don't know _____
- If the answer is 'Yes', how many shots was he given:
- B. Polio: (1) Yes _____ (2) No _____ (9) Don't know _____
- C. B.C.G.: (1) Yes _____ (2) No _____ (9) Don't know _____
- D. Smallpox: (1) Yes _____ (2) No _____ (9) Don't know _____
- E. Measles: (1) Yes _____ (2) No _____ (9) Don't know _____

CHILDREN'S DISEASES

50. Ask about all diseases:
- A. Diarrhoea: (1) Current _____ (2) Recent _____ (3) Recurrent _____
- B. Respiratory: (1) Current _____ (2) Recent _____ (3) Recurrent _____
- C. Ear Discharge: (1) Current _____ (2) Recent _____ (3) Recurrent _____
- If the answer is 'Yes' how many times a year does the ear discharge:
- _____
- D. Whooping cough: (1) Yes _____ (2) No _____ (9) Don't know _____
- E. Measles: (1) Yes _____ (2) No _____ (9) Don't know _____
- F. Mumps: (1) Yes _____ (2) No _____ (9) Don't know _____
- G. Chicken pox: (1) Yes _____ (2) No _____ (9) Don't know _____

51. Has this child entered hospital during the last six months:
1. Yes _____
 2. No _____
 9. Don't know _____
52. If the answer is 'Yes', what is the name of the disease:
1. _____
 2. _____
 3. _____
 9. _____
53. Has this child been taken to a doctor, either to his surgery or the hospital (outpatients' department), or has a doctor visited the child when sick in his home during the last six months :
1. Yes _____
 2. No _____
 9. Don't know _____
54. If the answer to no. 53 is 'Yes', specify the name of the disease:
1. _____
 2. _____
 9. _____
55. How many times have you visited the doctor during this period:
- _____
56. Do you think your child is:
1. Fat _____
 2. Normal _____
 3. Skinny (thin) _____
 9. Don't know _____

Don't ask: Report if child has a permanent disease or handicap
and state what it is:

FEEDING THE CHILD

Card No. 3 Serial No. _____ Serial No.

57. How long was this child fed by the mother:
1. He/she was never fed _____
 2. Less than 6 months _____
 3. From 7 - 12 months _____
 4. From 13 to 18 months _____
 5. From 25 months and up _____
 9. Don't know _____
58. Does your child drink any other kind of milk (other than the mother's milk):
1. Yes _____
 2. No _____
 9. Don't know _____
59. If the answer to no. 58 is 'Yes', state the kind of milk:
1. Fresh cow's milk _____
 2. Powdered full cream milk _____
 3. Powdered half cream milk _____
 4. Pasteurised milk _____
 5. Evaporated milk _____
 6. Other (specify kind and brand) _____
 9. Don't know _____
(Brand _____)
60. Other than milk and juice, at what age did the child start to eat other kinds of food _____ months.
61. What was the first solid food the child was given other than milk and juice:
1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 9. _____

62. What was the weaning pattern:
1. Abrupt _____
 2. Gradual _____
 9. Don't know _____

63. At what age was the child completely weaned:
_____ months

64. What were the reasons for weaning:
1. Pregnancy of the mother _____
 2. Sickness of the mother _____
 3. Return of the mother to work _____
 4. Cracked or painful nipples _____
 5. Not enough milk _____
 6. Sickness of the child _____
 7. Child old enough to eat _____
 9. Don't know _____

65. What were the means of weaning:
1. Painting the nipples _____
 2. Hiding from the child for a day or two _____
 3. Giving the child sedatives _____
 4. Other _____
 9. Don't know _____

Indicate the name of the substance used for painting the nipples:

1. _____
2. _____
3. _____
4. _____

66. Do you boil the water with which you prepare the formula:
1. Yes _____
 2. No _____
 9. Don't know _____

67. Do you boil the water used for drinking:
1. Yes _____
 2. No _____
 9. Don't know _____

68. Does your family receive milk donations:

1. Yes _____

2. No _____

9. Don't know _____

69.A. Do the older members of the family drink this milk:

1. Yes _____

2. No _____

9. Don't know _____

B. Do you sell this milk:

1. Yes _____

2. No _____

9. Don't know _____

C. Does the child drink this milk:

1. Yes _____

2. No _____

9. Don't know _____

70. The present food for this child includes (put '88' if you don't know the answer)

<u>Kind of food</u>	Yes	No
1. Milk	_____	_____
2. Cereals (rice, Cerelac etc.)	_____	_____
3. Fruits and vegetables	_____	_____
4. Meat, chicken, fish	_____	_____
5. Humus (WSB), fool (cooked beans) etc.	_____	_____
6. Eggs	_____	_____

71. Measurement of the mother:

Weight: _____ Kg. _____ gm.

Height: _____ mm

72. Measurement of the child:

Weight _____ Kg. _____ gm.

Height (standing) _____ mm

Length (supine) _____ mm

Head circumference _____ mm

Mid arm circumference _____ mm

Skinfold thickness:

Triceps 1 _____ mm

2 _____ mm

Biceps 1 _____ mm

2 _____ mm

Subscapular 1 _____ mm

2 _____ mm

Suprailiac 1 _____ mm

2 _____ mm

CLINICAL EXAMINATION

Serial no. _____

	Yes	No
73. <u>Hair:</u>		
Lack of lustre	_____	_____
Thinness and sparseness	_____	_____
Dyspigmentation of Proximale	_____	_____
Easily pluckable	_____	_____
Pediculosis	_____	_____
74. <u>Face:</u>		
Moon face	_____	_____
Pallor	_____	_____
75. <u>Eyes:</u>		
Xerosis Conjunctiva	_____	_____
Xerophthalmia (Keratomalacia)	_____	_____
Bitots spots	_____	_____
Angular palpebritis	_____	_____
Pallor of mucous membranes	_____	_____

	Yes	No
76. <u>Lips:</u>		
Angular Stomatitis, cheilosis	_____	_____
Angular scars	_____	_____
Pallor of mucous membrane	_____	_____
77. <u>Tongue:</u>		
Glossitis (scarlet and rowtongue)	_____	_____
Atrophic Papillae	_____	_____
78. <u>Teeth:</u>		
Mottled enamel	_____	_____
Dental Caries	_____	_____
79. <u>Gums:</u>		
Spongy bleeding gums	_____	_____
80. <u>Glands:</u>		
Thyroid enlargement	_____	_____
Parotid enlargement	_____	_____
81. <u>Skin:</u>		
Xerosis	_____	_____
Follicular hyperkeratosis	_____	_____
Pellagrous dermatosis	_____	_____
Flaky paint dermatosis	_____	_____
82. <u>Subcutaneous Tissue:</u>		
Reduced amount of fat	_____	_____
Edema	_____	_____
83. <u>Muscular and Skeletal System:</u>		
Intramuscular or subcutaneous hematoma	_____	_____
Cranictabes	_____	_____
Frontal and parietal bossing	_____	_____
Epiphyseal enlargement	_____	_____
Beading of ribs	_____	_____
Knock knees or bow legs	_____	_____
Diffuse or local skeletal deformity	_____	_____

	Yes	No
84. <u>Gastrointestinal:</u>		
Hepatomegaly	_____	_____
Splenomegaly	_____	_____
Ascites	_____	_____
85. <u>Nervous:</u>		
Psychomotor changes (apathy)	_____	_____
Calf tenderness	_____	_____
86. <u>Cardiovascular:</u>		
Heart murmur	_____	_____
Reduced pulse rate	_____	_____
Scars	_____	_____

LABORATORY FINDINGS

87. Haemoglobin: _____ gm.
88. Haematocrit: _____ %

APPENDIX II

Measuring Procedure

Weight

- a. The child should be undressed, leaving only underpants. Please see that shoes and socks are removed before measurement.
- b. Get the child to stand on the platform. In the case of smaller children who are incapable of standing without support, they should be placed on the pan fixed to the balance.
- c. Adjust the weights on the lever arms, kilogrammes first and then grammes, until the pointer balances. Check again that the child is standing free.
- d. Take the reading in kilogrammes and grammes to the nearest 50 grammes below and record, then release the child.

Height (Children over 2 years of age will be measured by this technique)

- a. Make sure that the child is not wearing shoes or socks.
- b. Get the child to stand on the horizontal platform with the heels together touching the base plate, feet parallel to each other and pointing forwards, and the back of the child against the upright.
- c. Make sure that the knees are straight and position the child's head so that the line between the lower border of the left orbit and the upper margin of the external auditory meatus (Frankfort plane) is horizontal.
- d. Now ask the other fieldworker to stand directly in front of the child and to gently stretch the child as tall as possible, holding the child's head at each side over the mastoid process (just behind the ear). She should maintain her hold and keep the child stretched until the measurement has been taken.
- e. Check that the child's heels are still on the platform and the Frankfort plane is horizontal.
- f. Lower the headpiece to touch the child's head; take the reading to the nearest millimetre below on the counter and record.
- g. If the portable equipment is used, once the headpiece rests on the child's head, its position can be fixed with the other hand.

Supine length (All children between 1 and 3 years of age will be measured
(1) by this technique)

This is measured with the child lying supine. Portable equipment should rest on the floor before commencing measurements.

- a. Get the child to lie with his/her face upwards on the platform.
- b. Hold the child's head in the Frankfort plane and apply gentle traction to bring the top of the head into contact with the fixed headboard.
- c. Ask the other fieldworker to hold the child's feet, toes pointing directly upwards, applying gentle traction and bring the moveable footboard to rest firmly against the child's heels. This manoeuvre should be done with the tip of the index finger on the constant pressure catch, so that when the correct pressure is exerted by the feet, the carriage gets automatically locked.
- d. Take the reading to the nearest millimetre below, record and release the child.

Supine length (Infants under 1 year of age will be measured by this technique)
(2)

- a. Make sure that the child is not wearing socks or shoes.
- b. Place the anthropometer horizontally on a flat surface.
- c. Make sure that the thread carrying the weight is removed and the removeable plate in the carriage is placed so that the side with projections is facing the fixed board at the other end.
- d. Now gently place the child, face upwards, on the smooth surface with his/her head towards the fixed board.
- e. Hold the child's head in the Frankfort plane and apply gentle traction to bring the top of the head into contact with the fixed headboard.
- f. Now get the other fieldworker to hold the child's head with both hands with the two thumbs gripping the child's chin, the two index fingers just below the axilla and the other fingers around the head and neck, making sure that the child's shoulders are firmly fixed to the board. She should maintain gentle traction to keep the head fixed to the board.

- g. Ensure that the child's body lies parallel to the long axis of the instrument and the Frankfort plane is vertical.
- h. With the left hand, extend the child's right leg fully and hold the foot at right angles to the surface.
- i. Move the carriage towards the child's foot with the tip of the right index finger on the constant pressure catch until the space between the two projections of the foot plate touches the child's heel.
- j. When the correct pressure is applied on the foot plate the carriage automatically becomes locked.
- k. Now take the reading to the nearest millimetre below and record. Release the child.

Head circumference

Steady the child's head and pass the tape around the head so that it passes horizontally over the eyebrows and the most prominent part at the back of the head. Take the reading to the nearest 0.1 cm below and record.

Mid-arm circumference

The subject (if able to stand) should be asked to stand with the left arm hanging freely (IBP 1969). Smaller children should be seated on the mother's lap (Jelliffe 1966). Stand on the left side of the subject and feel for the lower border of the acromial process of the scapula. This is easily located as the outermost and lowest border of the flat bony prominence over this point and run the tape down along the arm to touch the upper border of the olecranon process (the most prominent bony prominence on the back of the elbow joint). Read the distance between these two points and with a ballpoint pen mark the midpoint between them. The position of this mark can be referred to as the standard midpoint.

Make sure that the arm is hanging freely and run the tape round at the standard midpoint. This procedure should be done gently, so as to avoid compression of the soft tissue. Now read the arm circumference to the nearest millimetre below and record.

Triceps skinfold thickness

Positioning of the subject is as described under mid-arm circumference. Again, make sure the arm is hanging freely and pick up a skin fold parallel to the long

- g. Ensure that the child's body lies parallel to the long axis of the instrument and the Frankfort plane is vertical.
- h. With the left hand, extend the child's right leg fully and hold the foot at right angles to the surface.
- i. Move the carriage towards the child's foot with the tip of the right index finger on the constant pressure catch until the space between the two projections of the foot plate touches the child's heel.
- j. When the correct pressure is applied on the foot plate the carriage automatically becomes locked.
- k. Now take the reading to the nearest millimetre below and record. Release the child.

Head circumference

Steady the child's head and pass the tape around the head so that it passes horizontally over the eyebrows and the most prominent part at the back of the head. Take the reading to the nearest 0.5 cm below and record.

Mid-arm circumference

The subject (if able to stand) should be asked to stand with the left arm hanging freely (IBP 1969). Smaller children should be seated on the mother's lap (Jelliffe 1966). Stand on the left side of the subject and feel for the lower border of the acromial process of the scapula. This is easily located as the outermost and lowest border of the flat bony prominence over this point and run the tape down along the arm to touch the upper border of the olecranon process (the most prominent bony prominence on the back of the elbow joint). Read the distance between these two points and with a ballpoint pen mark the midpoint between them. The position of this mark can be referred to as the standard midpoint.

Make sure that the arm is hanging freely and run the tape round at the standard midpoint. This procedure should be done gently, so as to avoid compression of the soft tissue. Now read the arm circumference to the nearest millimetre below and record.

Triceps skinfold thickness

Positioning of the subject is as described under mid-arm circumference. Again, make sure the arm is hanging freely and pick up a skin fold parallel to the long

axis of the arm with the thumb and forefinger of the left hand. This skinfold should be located 1 cm above the standard midpoint of the upper arm, directly in line with the point of the elbow, and care should be taken not to include the underlying muscles. Holding the calipers horizontally in the right hand, apply the jaws at exactly the level marked. When the full pressure of the caliper jaws is applied to the skinfold, wait for 2 seconds and note the reading to the nearest decimal millimetre below and record.

Repeat the procedure and record.

Biceps skinfold thickness

Get the subject to sit on a stool and place his/her arm on the thigh in the supinated position (arm rotated outwards). Now extend the standard midpoint to the anterior (front) aspect of the arm. Pick up the skinfold, as above, 1 cm above the midpoint, directly above the centre of the cubital fossa. Apply the calipers, wait for 2 seconds, and record the reading as above.

Repeat another measurement and record.

Subscapular skinfold thickness

Get the subject to sit on a stool with the chest bare. Stand behind the subject and feel for the inferior angle (lowest point) of the left scapula and pick up a fold of skin just below it, pointing slightly downwards and outwards. Apply the calipers, wait for 2 seconds and record as above. Repeat measurement and record.

Suprailiac skinfold thickness (Durnin and Rahaman 1967)

Feel for the iliac crest on the left side with the subject seated on a stool. Pick up a skinfold just above the iliac crest in the mid-axillary line. Apply the calipers 1 cm below, wait for 2 seconds, take the reading as above and record. Repeat the measurement and record.

APPENDIX III

I Haemoglobin determination by cyanmethaemoglobin method (Cannon, 1958, Science, 127, 1376). In this method 0.02 ml of fresh or oxalated blood, obtained by finger or heel prick without squeezing is added to 4 ml of Drabkin's cyanide-ferricyanide solution, which acts as a preservative and which allows the resulting cyanmethaemoglobin to be estimated calorimetrically with an electrical photometer on return to hospital.

II Haematocrit estimation: A capillary tube of blood is centrifuged at 3000 r.p.m. on an electrical micro-haematocrit centrifuge to separate cells from plasma.

$$\text{Packed Cell Volume} = \left(\frac{\text{Height of cells}}{\text{Total height}} \right) \times 100 \%$$

APPENDIX IV

COMPARISON OF MEAN WEIGHTS (1964) WITH MEAN WEIGHTS (1974)

	1964		1974		
	No.	Mean	No.	Mean	
0 - 6	153	5.600	165	5.69	
6 - 12	352	7.13	226	8.18	
12 - 18	290	8.74	201	9.42	
18 - 24	194	9.16	191	10.68	
24 - 30	147	10.07	170	11.50	for 1974
30 - 36	84	10.88	175	12.53	mean = 11.84
36 - 42	108	12.61	185	13.44	S.D. = 3.211
42 - 48	38	13.68	168	14.66	
48 - 54	75	14.45	170	15.10	
54 - 60	27	15.66	127	15.91	
60 - 66	67	16.02	138	16.65	

It would not be correct to compare the populations as they stand because of the widely differing age structures. As we are given only the mean and S.D. for the whole populations. The best we can do is calculate a weighted mean for the first population (using the numbers in the age groups of the second population as the weights) and assume that the population S.D.'s will be equal. We then have the new overall mean (weighted) for 1964 = 10.93 and then:

$$t = \frac{\bar{X}_1 - \bar{X}_2}{s/\sqrt{2/n}} = \frac{-0.91}{3.211/\sqrt{2/1916}} = -8.77$$

This is still highly significant.

For the remaining tables, we obtain:

mean weights, females, \bar{X}_1	= 10.474,	t = - 8.243
mean heights, males, \bar{X}_1	= 82.614,	t = - 3.777
mean heights, females, \bar{X}_1	= 81.819,	t = - 3.145
mean head circumference, males, \bar{X}_1	= 47.225,	t = 5.918
mean head circumference, females, \bar{X}_1	= 46.320,	t = 6.095

Thus all the recomputed values are significantly different with $P < 0.01$; in the case of head circumference, the earlier results are greater, in other cases, less.

These results are not completely reliable, due to the assumptions made in the method, but in view of the high levels of significance, the effects are almost certainly still real ones.

APPENDIX V

Special Instructions for Recording Illness History

1. Upper respiratory infection (URI): running nose, mild cough and fever.
2. Diarrhoea: A breastfed infant may pass a stool after each feed. Therefore 6-7 stools daily, if yellow and formed, are considered normal. An artificially fed infant usually passes 0-5 stools daily. The colour is light yellow. Consistency is soft and smell is not fetid.

Diarrhoea: watery, green-coloured stools; 5-7 or more in 24 hours. Small or large in amount, with or without mucus and curds; with or without fever, with or without vomiting, with or without signs of dehydration.

Current: during the last 24-48 hours

Recent: during the last week

Recurrent: more than three times during the last six months

APPENDIX VI

CHILDREN'S WEIGHT (KG) BY AGE AND SEX

1

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	M E A N	R A N G E			S.D	C.V.	S.E.
=====			MIN.	MAX.	VAL.			
			M A L E S					
0 LESS 1	16	4.578	3.000	9.700	6.699	1.653	36.104	0.413
1 LESS 2	26	4.576	3.250	6.399	3.149	0.909	19.877	0.178
2 LESS 3	39	5.350	3.969	7.460	3.490	0.809	15.136	0.129
3 LESS 4	24	5.995	3.940	8.399	4.459	1.281	21.370	0.261
4 LESS 5	32	6.056	4.119	7.699	3.580	0.923	15.252	0.163
5 LESS 6	28	7.272	5.000	10.500	5.500	1.371	18.864	0.259
6 LESS 7	39	7.083	5.180	9.450	4.270	1.005	14.197	0.161
7 LESS 8	46	7.908	3.099	10.149	7.049	1.297	16.404	0.191
8 LESS 9	35	8.405	5.430	10.899	5.469	1.157	13.776	0.195
9 LESS 10	33	8.136	4.400	10.300	5.900	1.363	16.755	0.237
10 LESS 11	39	8.866	6.000	11.450	5.450	1.281	14.450	0.205
11 LESS 12	34	8.706	6.600	11.100	4.500	1.017	11.682	0.174

APPENDIX VI

CHILDREN'S WEIGHT (KG) BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	M E A N	R A N G E		VAL.	S.D.	C.V.	S.E.
			MIN.	MAX.				
M A L E S								
0 LESS 1	16	4.578	3.000	9.700	6.699	1.653	36.104	0.413
1 LESS 2	26	4.576	3.250	6.399	3.149	0.909	19.477	0.176
2 LESS 3	39	5.350	3.969	7.460	3.490	0.809	15.136	0.123
3 LESS 4	24	5.995	3.940	8.399	4.459	1.281	21.370	0.261
4 LESS 5	32	6.056	4.119	7.699	3.580	0.923	15.252	0.163
5 LESS 6	28	7.272	5.000	10.500	5.500	1.371	18.564	0.259
6 LESS 7	39	7.083	5.180	9.450	4.270	1.005	14.197	0.161
7 LESS 8	46	7.908	3.099	10.149	7.049	1.297	16.404	0.191
8 LESS 9	35	8.405	5.430	10.899	5.469	1.157	13.776	0.195
9 LESS 10	33	8.136	4.400	10.300	5.906	1.363	16.755	0.231
10 LESS 11	39	8.866	6.000	11.450	5.450	1.261	14.450	0.205
11 LESS 12	34	8.706	6.600	11.160	4.500	1.017	11.562	0.174

CHILDREN'S WEIGHT (KG) BY AGE AND SEX

2

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	M E A N	R A N G E			S.D.	C.V.	S.E.
			MIN.	MAX.	VAL.			
F E M A L E S								
0 LESS 1	19	3.828	2.639	4.900	2.260	0.631	16.486	0.144
1 LESS 2	32	4.242	3.000	5.699	2.699	0.695	16.394	0.122
2 LESS 3	36	4.656	3.139	6.100	2.960	0.743	15.971	0.123
3 LESS 4	35	5.700	4.300	8.750	4.449	1.021	17.916	0.172
4 LESS 5	31	6.111	3.099	9.399	6.299	1.028	16.830	0.184
5 LESS 6	29	6.705	5.050	9.399	4.349	1.035	15.447	0.192
6 LESS 7	25	6.884	4.449	8.350	3.900	0.837	12.161	0.167
7 LESS 8	35	7.537	6.000	9.899	3.899	0.883	11.718	0.149
8 LESS 9	26	7.650	4.650	11.200	6.550	1.320	17.255	0.258
9 LESS 10	36	7.879	6.199	9.399	3.199	0.841	10.679	0.140
10 LESS 11	26	8.249	4.949	10.700	5.750	1.086	13.173	0.213
11 LESS 12	29	8.092	5.225	9.899	4.674	1.055	13.043	0.196

CHILDREN'S WEIGHT (KG) BY (SEX COMBINED)

3

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	MEAN	RANGE	S.D.	C.V.	S.E.
0 LESS 1	35	4.171	7.060	1.248	29.940	0.211
1 LESS 2	58	4.392	3.399	0.808	18.415	0.106
2 LESS 3	75	5.017	4.320	0.848	16.913	0.097
3 LESS 4	59	5.820	4.809	1.133	19.466	0.147
4 LESS 5	63	6.083	6.299	0.969	15.932	0.122
5 LESS 6	57	6.983	5.500	1.235	17.686	0.163
6 LESS 7	64	7.005	5.000	0.941	13.441	0.117
7 LESS 8	81	7.748	7.049	1.145	14.786	0.127
8 LESS 9	61	8.083	6.550	1.275	15.782	0.163
9 LESS 10	69	8.002	5.900	1.120	14.003	0.134
10 LESS 11	65	8.619	6.500	1.236	14.345	0.153
11 LESS 12	63	8.423	5.875	1.071	12.724	0.135

MEAN WEIGHT INCREMENT (KG) BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

=====			
= AGE GROUP =		= MEAN VALUES =	
=====			
= (MONTH)	=	MALES	= FEMALES
=====			
0 LESS 1		4.578	3.828
1 LESS 2		-0.001	0.413
2 LESS 3		0.773	0.414
3 LESS 4		0.645	1.043
4 LESS 5		0.060	0.411
5 LESS 6		1.216	0.593
6 LESS 7		-0.188	0.178
7 LESS 8		0.825	0.653
8 LESS 9		0.496	0.113
9 LESS 10		-0.269	0.228
10 LESS 11		0.730	0.369
11 LESS 12		-0.160	-0.156



CHILDREN'S HEIGHT (CM) BY AGE AND SEX

5

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	M E A N	MIN.	R A N G E MAX.	VAL.	S.D	C.V.	S.F.

M A L E S								
0 LESS 1	16	55.262	47.500	74.199	26.699	6.389	11.562	1.597
1 LESS 2	26	55.007	44.599	65.300	20.700	4.384	7.969	0.859
2 LESS 3	39	58.382	53.199	66.000	12.799	2.951	5.055	0.472
3 LESS 4	24	61.070	53.000	69.100	16.100	4.260	6.975	0.869
4 LESS 5	32	62.500	55.699	68.400	12.700	2.951	4.722	0.521
5 LESS 6	28	66.185	60.199	79.199	18.999	3.892	5.881	0.735
6 LESS 7	39	65.779	55.699	71.900	16.200	3.162	4.807	0.506
7 LESS 8	46	67.834	61.500	91.000	29.499	4.783	7.051	0.705
8 LESS 9	35	68.700	62.800	73.100	10.299	2.020	2.940	0.341
9 LESS 10	33	69.442	59.199	76.000	16.799	3.230	4.652	0.562
10 LESS 11	40	70.772	64.900	76.199	11.299	2.285	3.228	0.361
11 LESS 12	34	71.052	68.400	76.900	8.500	2.338	3.291	0.401

CHILDREN'S HEIGHT (CM) BY AGE AND SEX

6

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS) -----	NUMBER	M E A N	R A N G E			S.D	C.V.	S.E.
			MIN.	MAX.	VAL.			
F E M A L E S								
0 LESS 1	19	52.668	39.400	56.800	17.400	3.841	7.377	0.481
1 LESS 2	32	54.803	50.800	63.199	12.399	2.654	4.844	0.469
2 LESS 3	36	56.252	50.300	60.099	9.799	2.224	3.955	0.370
3 LESS 4	35	57.694	54.099	68.800	14.699	3.030	5.076	0.512
4 LESS 5	31	61.512	57.000	66.900	9.900	2.382	3.872	0.477
5 LESS 6	29	63.279	55.699	77.300	21.600	4.147	6.554	0.770
6 LESS 7	25	64.480	56.800	69.300	12.499	2.406	3.732	0.481
7 LESS 8	34	65.629	59.500	73.199	13.699	3.749	5.712	0.642
8 LESS 9	27	66.548	56.000	71.699	15.699	3.999	6.010	0.763
9 LESS 10	36	66.366	59.800	76.400	16.600	3.617	5.291	0.602
10 LESS 11	26	68.836	54.400	73.600	19.200	3.355	4.874	0.656
11 LESS 12	29	70.255	63.099	75.000	11.899	2.877	4.096	0.534

CHILDREN'S HEIGHT (CM) BY AGE (SEX COMBINED)

7

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	MEAN	RANGE	S.D	C.V	S.E.
0 LESS 1	35	53.528	34.799	5.331	9.960	0.901
1 LESS 2	58	54.894	20.700	3.503	6.381	0.460
2 LESS 3	75	57.360	15.699	2.821	4.919	0.325
3 LESS 4	59	60.254	16.100	3.611	5.994	0.470
4 LESS 5	63	62.014	12.700	2.710	4.371	0.341
5 LESS 6	57	64.707	23.499	4.249	6.566	0.562
6 LESS 7	64	65.271	16.200	2.940	4.504	0.367
7 LESS 8	80	66.897	31.499	4.484	6.703	0.501
8 LESS 9	62	67.762	17.100	3.201	4.724	0.406
9 LESS 10	69	68.861	17.200	3.455	5.016	0.415
10 LESS 11	66	70.010	21.799	2.893	4.132	0.356
11 LESS 12	63	70.685	13.800	2.610	3.692	0.328

MEAN HEIGHT INCREMENT (CM) BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

=====			
= AGE GROUP =		MEAN VALUES	
=====			
= (MONTH) =		MALES	FEMALES
=====			
0 LESS 1		55.262	52.068
1 LESS 2		-0.254	2.734
2 LESS 3		3.374	1.449
3 LESS 4		2.688	3.441
4 LESS 5		1.429	1.818
5 LESS 6		3.685	1.766
6 LESS 7		-0.406	1.200
7 LESS 8		2.055	1.149
8 LESS 9		0.865	0.918
9 LESS 10		0.742	1.818
10 LESS 11		1.330	0.471
11 LESS 12		0.280	1.416

8

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MEAN WEIGHT/HEIGHT RATIO (KG/CM) BY AGE AND SEX

9

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	M E A N	R A N G E		V A L.	S.D	C.V.	S.E.
			MIN.	MAX.				
M A L E S								
0 LESS 1	16	0.081	0.058	0.130	0.072	0.017	22.070	0.004
1 LESS 2	26	0.082	0.063	0.108	0.044	0.011	14.119	0.002
2 LESS 3	39	0.091	0.070	0.116	0.046	0.011	12.167	0.001
3 LESS 4	24	0.097	0.072	0.131	0.058	0.016	16.622	0.003
4 LESS 5	32	0.096	0.069	0.117	0.048	0.012	12.860	0.002
5 LESS 6	28	0.109	0.080	0.135	0.055	0.015	14.223	0.002
6 LESS 7	38	0.106	0.077	0.138	0.060	0.012	11.823	0.002
7 LESS 8	45	0.116	0.043	0.150	0.107	0.018	15.655	0.002
8 LESS 9	35	0.122	0.077	0.149	0.071	0.015	12.681	0.002
9 LESS 10	33	0.116	0.074	0.146	0.072	0.016	14.548	0.002
10 LESS 11	39	0.125	0.088	0.161	0.073	0.016	13.076	0.002
11 LESS 12	34	0.122	0.095	0.148	0.053	0.012	10.209	0.002

MEAN WEIGHT/HEIGHT RATIO (KG/CM) BY AGE AND SEX

10

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS) *****	NUMBER	M E A N	R A N G E		S.D.	C.V.	S.E.	
			MIN.	MAX.				
F E M A L E S								
0 LESS 1	19	0.073	0.051	0.086	0.034	0.008	11.908	0.002
1 LESS 2	32	0.077	0.058	0.103	0.044	0.010	13.525	0.001
2 LESS 3	36	0.082	0.058	0.102	0.043	0.011	13.677	0.001
3 LESS 4	35	0.095	0.072	0.128	0.055	0.013	13.834	0.002
4 LESS 5	31	0.097	0.052	0.160	0.107	0.016	16.745	0.002
5 LESS 6	29	0.105	0.084	0.153	0.068	0.014	13.498	0.002
6 LESS 7	25	0.106	0.078	0.128	0.050	0.011	10.365	0.002
7 LESS 8	34	0.115	0.099	0.152	0.053	0.011	9.823	0.001
8 LESS 9	26	0.114	0.083	0.156	0.073	0.015	13.121	0.002
9 LESS 10	36	0.115	0.095	0.133	0.037	0.010	8.756	0.001
10 LESS 11	26	0.119	0.090	0.156	0.065	0.013	11.154	0.002
11 LESS 12	29	0.115	0.082	0.136	0.053	0.013	11.494	0.002

MEAN EIGHT/HEIGHT INCREMENT (KG/CM) BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

11

=====			
= AGE GROUP =		MEAN VALUES	
=====			
= (MONTH)	=	MALES	= FEMALES =
=====			
0 LESS 1		0.081	0.073
1 LESS 2		0.001	0.003
2 LESS 3		0.008	0.005
3 LESS 4		0.006	0.012
4 LESS 5		-0.000	0.004
5 LESS 6		0.012	0.006
6 LESS 7		-0.002	0.000
7 LESS 8		0.009	0.008
8 LESS 9		0.005	-0.000
9 LESS 10		-0.005	0.000
10 LESS 11		0.008	0.004
11 LESS 12		-0.002	-0.004

CHILDREN'S HEAD CIRCUMFERENCE (CM) BY AGE AND SEX

12

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS) =====	NUMBER	M E A N	R A N G E			S.D	C.V.	S.E.
			MIN.	MAX.	VAL.			
M A L E S								
0 LESS 1	16	37.343	33.700	45.400	11.699	2.739	7.336	0.684
1 LESS 2	26	37.765	34.500	41.000	6.500	1.432	3.733	0.740
2 LESS 3	39	39.366	35.099	47.300	12.200	2.138	5.431	0.342
3 LESS 4	24	40.129	35.300	45.400	10.100	2.313	5.765	0.472
4 LESS 5	32	41.567	38.000	51.500	13.500	2.736	6.979	0.463
5 LESS 6	28	42.574	39.599	48.000	8.400	1.804	4.238	0.341
6 LESS 7	40	42.754	40.200	46.099	5.899	1.385	3.241	0.219
7 LESS 8	47	43.470	40.000	49.000	9.000	1.565	3.600	0.228
8 LESS 9	35	44.397	41.200	48.500	7.299	1.459	3.286	0.246
9 LESS 10	33	44.121	39.000	48.300	9.300	1.694	3.839	0.294
10 LESS 11	40	45.174	41.500	49.000	7.500	1.718	3.863	0.271
11 LESS 12	34	44.841	40.400	48.500	8.100	1.581	3.527	0.271

CHILDREN'S HEAD CIRCUMFERENCE (CM) BY AGE AND SEX

13

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS) *****	NUMBER	M E A N	R A N G E			S.D.	C.V.	S.E.
			MIN.	MAX.	VAL.			
F E M A L E S								
0 LESS 1	19	36.126	34.200	38.300	4.099	1.269	3.513	0.291
1 LESS 2	32	37.224	34.000	44.500	10.500	2.065	5.549	0.305
2 LESS 3	36	38.049	35.500	44.500	9.000	1.736	4.562	0.289
3 LESS 4	35	39.911	36.099	49.099	13.000	2.634	6.501	0.445
4 LESS 5	31	40.722	38.000	48.200	10.200	2.288	5.626	0.411
5 LESS 6	29	40.989	37.000	46.800	9.800	1.744	4.255	0.323
6 LESS 7	25	41.500	38.400	45.099	6.699	1.372	3.306	0.274
7 LESS 8	35	42.228	38.599	46.099	7.500	1.479	3.504	0.250
8 LESS 9	27	42.346	37.700	45.300	7.599	1.997	4.716	0.334
9 LESS 10	36	42.988	40.200	47.500	7.299	1.542	3.588	0.257
10 LESS 11	26	43.092	36.599	46.800	10.200	1.943	4.511	0.381
11 LESS 12	29	43.506	40.200	45.700	5.500	1.314	3.022	0.244

CHILDREN'S HEAD CIRCUMFERENCE (CM) BY AGE (SEX COMBINED)

CHILD GROWTH SURVEY - AMMAN

14

AGE (MONTHS)	NUMBER	MEAN	RANGE	S.D.	L.V.	S.E.
0 LESS 1	35	36.682	11.699	2.131	5.810	0.360
1 LESS 2	58	37.467	10.500	1.815	4.844	0.238
2 LESS 3	75	38.734	12.200	2.052	5.297	0.236
3 LESS 4	59	39.999	13.799	2.490	6.226	0.324
4 LESS 5	63	41.161	13.500	2.543	6.178	0.320
5 LESS 6	57	41.768	11.000	1.931	4.673	0.255
6 LESS 7	65	42.272	7.699	1.501	3.552	0.186
7 LESS 8	82	42.946	10.400	1.640	3.821	0.181
8 LESS 9	62	43.501	10.799	1.986	4.566	0.252
9 LESS 10	69	43.530	9.300	1.703	3.912	0.205
10 LESS 11	66	44.354	12.400	2.067	4.602	0.254
11 LESS 12	63	44.226	8.299	1.600	3.618	0.201

MEAN HEAD CIRCUMFERENCE INCREMENT (CM) BY AGE AND SEX

15

CHILD GROWTH SURVEY - AMMAN

=====					
= AGE GROUP =		MEAN VALUES		=	
=====					
= (MONTH)	=	MALES	=	FEMALES	=
=====					
0 LESS 1		37.343		36.126	
1 LESS 2		0.421		1.098	
2 LESS 3		1.601		0.824	
3 LESS 4		0.762		1.861	
4 LESS 5		1.458		0.811	
5 LESS 6		0.967		0.267	
6 LESS 7		0.180		0.510	
7 LESS 8		0.715		0.728	
8 LESS 9		0.926		0.112	
9 LESS 10		-0.275		0.648	
10 LESS 11		1.053		0.103	
11 LESS 12		-0.333		0.414	

CHILDREN'S ARM CIRCUMFERENCE (CM) BY AGE AND SEX

16

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	M E A N	R A N G E			S.D.	C.V.	S.E.
			MIN.	MAX.	VAL.			
M A L E S								
0 LESS 1	16	11.799	9.300	14.000	4.699	1.276	10.817	0.319
1 LESS 2	25	11.379	8.500	14.000	5.500	1.547	13.554	0.308
2 LESS 3	39	12.379	10.399	15.500	5.100	1.124	9.082	0.180
3 LESS 4	24	12.762	10.000	15.500	5.500	1.449	11.356	0.295
4 LESS 5	32	12.559	9.399	15.000	5.600	1.480	11.770	0.261
5 LESS 6	28	12.989	9.399	15.200	5.800	1.452	11.184	0.274
6 LESS 7	40	13.297	9.500	16.700	7.199	1.504	11.316	0.237
7 LESS 8	47	13.772	11.200	16.100	4.900	1.162	8.440	0.169
8 LESS 9	35	14.002	11.399	16.500	5.099	1.391	9.738	0.235
9 LESS 10	33	13.681	10.500	16.000	5.500	1.360	9.743	0.230
10 LESS 11	40	14.074	11.000	17.000	5.999	1.275	9.059	0.201
11 LESS 12	34	13.964	12.300	16.500	4.199	0.992	7.110	0.170

CHILDREN'S ARM CIRCUMFERENCE (CM) BY AGE AND SEX

17

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	M E A N	R A N G E		VAL.	S.D	C.V.	S.E.
=====			MIN.	MAX.				
F E M A L E S								
0 LESS 1	19	10.484	8.000	12.200	4.200	1.134	10.820	0.260
1 LESS 2	32	11.237	9.500	14.000	4.500	1.258	11.703	0.222
2 LESS 3	36	11.794	8.800	17.400	8.600	1.491	12.645	0.246
3 LESS 4	35	12.559	11.000	16.500	5.499	1.208	9.618	0.204
4 LESS 5	31	12.916	10.200	17.000	6.799	1.432	11.089	0.257
5 LESS 6	29	12.824	10.500	15.000	4.500	1.073	8.369	0.199
6 LESS 7	25	12.835	10.500	15.200	4.700	1.166	9.087	0.233
7 LESS 8	35	13.365	11.200	15.500	4.300	1.144	8.563	0.193
8 LESS 9	27	13.214	11.000	15.000	4.000	1.063	8.048	0.204
9 LESS 10	34	13.702	11.500	16.500	4.999	1.121	8.180	0.192
10 LESS 11	26	13.719	12.000	16.000	4.000	1.151	8.392	0.225
11 LESS 12	29	13.558	12.000	16.000	4.000	1.133	8.359	0.210

MEAN ARM CIRCUMFERENCE (CM) INCREMENT (CM) BY AGE AND SEX
 CHILD GROWTH SURVEY - AMMAN

18

=====			
= AGE GROUP =		MEAN VALUES	
=====			
= (MONTH)	=	MALES	= FEMALES =
=====			
0 LESS 1		11.799	10.484
1 LESS 2		-0.420	0.753
2 LESS 3		0.999	0.556
3 LESS 4		0.383	0.765
4 LESS 5		-0.203	0.356
5 LESS 6		0.429	-0.091
6 LESS 7		0.308	0.011
7 LESS 8		0.474	0.529
8 LESS 9		0.230	-0.150
9 LESS 10		-0.321	0.488
10 LESS 11		0.393	0.016
11 LESS 12		-0.110	-0.160

MEAN TRICEPS SKINFOLD THICKNESS (MM) BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

19

AGE (MONTHS) =====	NUMBER	M E A N	R A N G E			S.D	C.V.	S.E.
			MIN.	MAX.	VAL.			
M A L E S								
0 LESS 1	16	5.349	3.200	7.000	3.799	0.983	18.390	0.245
1 LESS 2	26	5.811	2.800	11.500	8.699	2.023	34.819	0.396
2 LESS 3	39	6.443	4.000	11.399	7.399	1.434	22.262	0.229
3 LESS 4	24	6.624	4.199	11.500	7.300	1.885	28.452	0.364
4 LESS 5	32	6.753	3.000	11.000	7.999	2.047	30.312	0.361
5 LESS 6	28	7.142	3.400	9.800	6.400	1.722	24.120	0.325
6 LESS 7	40	6.699	2.800	10.200	7.399	1.721	25.700	0.272
7 LESS 8	47	7.740	4.500	13.000	8.500	2.242	28.973	0.327
8 LESS 9	34	7.614	3.599	13.200	9.600	1.924	25.269	0.329
9 LESS 10	33	7.112	4.199	13.500	9.300	1.908	26.836	0.332
10 LESS 11	40	7.237	4.800	9.800	5.000	1.414	19.541	0.223
11 LESS 12	34	6.447	4.400	12.000	7.599	1.529	23.727	0.262

MEAN TRICEPS SKINFOLD THICKNESS (MM) BY AGE AND SEX

20

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	M E A N	R A N G E			S.D	C.V.	S.E.
			MIN.	MAX.	VAL.			
F E M A L E S								
0 LESS 1	18	4.444	2.400	7.199	4.800	1.449	32.616	0.341
1 LESS 2	31	5.799	3.200	10.200	7.000	2.016	34.768	0.362
2 LESS 3	36	5.644	3.000	8.200	5.199	1.305	23.120	0.217
3 LESS 4	35	7.137	3.599	11.399	7.799	1.980	27.747	0.334
4 LESS 5	31	7.058	4.000	11.500	7.499	1.910	27.075	0.343
5 LESS 6	29	7.331	4.000	13.500	9.500	2.508	34.218	0.465
6 LESS 7	24	6.899	4.600	10.000	5.399	1.352	19.603	0.276
7 LESS 8	35	7.125	5.000	12.399	7.399	1.869	26.242	0.316
8 LESS 9	27	6.418	2.400	10.500	8.100	1.712	26.682	0.329
9 LESS 10	36	7.199	4.000	12.200	8.200	1.858	25.811	0.309
10 LESS 11	26	6.442	4.800	11.399	6.599	1.431	22.223	0.280
11 LESS 12	29	6.493	4.000	9.500	5.499	1.435	22.104	0.266

CHILDREN'S TRICEPS SKINFOLD THICKNESS (MM) BY AGE (SEX COMBINED)

21

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS) =====	NUMBER	MEAN	RANGE	S.D	C.V	S.E.
0 LESS 1	34	4.870	4.800	1.316	27.028	0.225
1 LESS 2	57	5.805	8.699	2.001	34.479	0.265
2 LESS 3	75	6.059	8.399	1.422	23.475	0.164
3 LESS 4	59	6.928	7.899	1.942	28.031	0.252
4 LESS 5	63	6.903	8.500	1.971	28.555	0.248
5 LESS 6	57	7.238	10.100	2.141	29.586	0.283
6 LESS 7	64	6.774	7.399	1.585	23.398	0.198
7 LESS 8	82	7.478	8.500	2.101	28.106	0.232
8 LESS 9	61	7.085	10.800	1.914	27.024	0.245
9 LESS 10	69	7.157	9.500	1.869	26.113	0.225
10 LESS 11	66	6.924	6.599	1.463	21.136	0.180
11 LESS 12	63	6.468	7.999	1.475	22.807	0.185

MEAN TRICEPS SKINFOLD THICKNESS INCREMENT (MM) BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

=====			
= AGE GROUP =		MEAN VALUES	
=====			
= (MONTH)	=	MALFS	= FEMALES =
=====			
0 LESS 1		5.349	4.444
1 LESS 2		0.461	1.355
2 LESS 3		0.632	-0.155
3 LESS 4		0.181	1.492
4 LESS 5		0.128	-0.079
5 LESS 6		0.389	0.272
6 LESS 7		-0.442	-0.431
7 LESS 8		1.040	0.225
8 LESS 9		-0.125	-0.707
9 LESS 10		-0.502	0.781
10 LESS 11		0.125	-0.757
11 LESS 12		-0.790	0.050

MEAN BICEPS SKINFOLD THICKNESS (MM) BY AGE AND SEX

23

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	M E A N	R A N G E			S.D	C.V.	S.E.
=====			MIN.	MAX.	VAL.			
M A L E S								
0 LESS 1	16	3.862	2.800	5.000	2.199	0.627	16.233	0.156
1 LESS 2	26	4.415	2.200	7.000	4.800	1.231	27.890	0.241
2 LESS 3	39	4.466	3.400	6.500	3.099	0.644	18.915	0.135
3 LESS 4	24	4.137	3.000	6.500	3.500	0.912	22.057	0.186
4 LESS 5	32	4.343	2.400	7.399	5.000	1.195	27.513	0.211
5 LESS 6	28	4.364	2.200	7.399	5.199	1.107	25.386	0.209
6 LESS 7	40	4.349	2.400	7.800	5.400	1.141	26.247	0.180
7 LESS 8	47	4.789	3.000	8.200	5.199	1.405	29.348	0.205
8 LESS 9	34	4.708	3.000	10.000	6.999	1.517	32.217	0.260
9 LESS 10	33	3.933	2.000	5.400	3.400	0.751	19.096	0.130
10 LESS 11	40	4.254	2.400	6.400	4.000	0.912	21.447	0.144
11 LESS 12	34	3.897	2.599	5.000	2.400	0.557	14.314	0.095

MEAN BICEPS SKINFOLD THICKNESS (MM) BY AGE AND SEX

24

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	M E A N	M I N.	R A N G E M A X.	VAL.	S.D	C.V.	S.E.
F E M A L E S								
0 LESS 1	18	3.377	2.000	5.000	2.999	0.848	25.111	0.199
1 LESS 2	31	4.019	2.400	7.500	5.100	1.186	29.580	0.215
2 LESS 3	36	3.994	2.200	6.199	3.999	1.075	26.936	0.179
3 LESS 4	35	4.897	2.800	7.600	4.800	1.241	25.343	0.209
4 LESS 5	31	4.103	2.400	6.199	3.799	0.995	24.269	0.178
5 LESS 6	29	4.358	2.800	7.399	4.599	1.108	25.434	0.205
6 LESS 7	25	4.271	2.300	5.800	3.500	0.960	22.476	0.192
7 LESS 8	35	4.222	3.000	8.800	5.800	1.053	24.356	0.178
8 LESS 9	27	4.385	2.000	8.800	6.800	1.270	29.821	0.302
9 LESS 10	36	4.505	2.800	8.500	5.699	1.121	24.702	0.186
10 LESS 11	26	4.488	3.200	10.200	7.000	1.554	34.631	0.304
11 LESS 12	29	4.266	2.800	7.000	4.199	1.133	26.562	0.210

CHILDREN'S BICEPS SKINFOLD THICKNESS (MM) BY AGE (SEX COMBINED)

25

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	MEAN	RANGE	S.D	C.V	S.E.
0 LESS 1	34	3.605	2.999	0.780	21.653	0.133
1 LESS 2	57	4.199	5.300	1.214	28.906	0.160
2 LESS 3	75	4.239	4.300	0.985	23.234	0.113
3 LESS 4	59	4.588	4.600	1.172	25.556	0.152
4 LESS 5	63	4.225	5.000	1.099	26.019	0.138
5 LESS 6	57	4.361	5.199	1.098	25.183	0.145
6 LESS 7	65	4.319	5.500	1.068	24.733	0.132
7 LESS 8	82	4.547	5.800	1.291	28.397	0.142
8 LESS 9	61	4.565	7.999	1.536	33.657	0.196
9 LESS 10	69	4.231	6.499	0.996	23.586	0.120
10 LESS 11	66	4.346	7.800	1.200	27.626	0.147
11 LESS 12	63	4.068	4.400	0.883	21.726	0.111

MENN BICEPS SKINFOLD THICKNESS INCREMENT (MM) BY AGE AND SEX
CHILD GROWTH SURVEY - ANMAN

AGE GROUP		MEAN VALUES	
(MONTH)		MALES	FEMALES
0 LESS	1	3.862	3.377
1 LESS	2	0.552	0.641
2 LESS	3	0.051	-0.024
3 LESS	4	-0.329	0.902
4 LESS	5	0.206	-0.793
5 LESS	6	0.020	0.255
6 LESS	7	-0.014	-0.086
7 LESS	8	0.439	-0.049
8 LESS	9	-0.080	0.102
9 LESS	10	-0.775	0.120
10 LESS	11	0.321	-0.017
11 LESS	12	-0.357	-0.219

MEAN SUPRATILIAE SKINFOLD THICKNESS (MM) BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	MEAN	RANGE		VAL.	S.D.	C.V.	S.E.
-----			MIN.	MAX.				
M A L E S								
0 LESS 1	16	5.324	3.800	8.600	5.000	1.342	25.209	0.335
1 LESS 2	26	4.942	2.400	8.800	6.400	1.602	32.424	0.314
2 LESS 3	39	5.882	2.400	9.800	7.400	1.377	23.411	0.229
3 LESS 4	24	5.733	3.400	9.200	5.800	1.616	28.202	0.330
4 LESS 5	32	5.140	2.400	8.000	5.600	1.467	28.546	0.299
5 LESS 6	26	5.299	3.000	7.800	4.800	1.170	22.087	0.221
6 LESS 7	60	5.477	2.800	8.800	6.000	1.394	25.463	0.220
7 LESS 8	47	6.063	3.400	11.000	7.599	1.669	27.469	0.242
8 LESS 9	33	6.048	3.599	9.200	5.600	1.551	25.656	0.270
9 LESS 10	33	5.066	3.200	8.800	5.600	1.193	23.558	0.207
10 LESS 11	40	5.634	3.599	9.000	5.399	1.295	22.996	0.204
11 LESS 12	34	5.094	3.000	8.000	5.000	1.016	19.795	0.174

MEAN SUPRATILLAG SKINFOLD THICKNESS (MM) BY AGE AND SEX

28

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS) *****	NUMBER	M E A N	R A N G E		S. D.	C. V.	S. E.	
			MIN.	MAX.				
F E M A L E S								
0 LESS 1	18	4.338	2.800	6.000	3.199	1.064	24.533	0.250
1 LESS 2	31	5.293	3.200	9.000	5.799	1.557	29.431	0.279
2 LESS 3	36	5.288	3.000	9.000	5.999	1.645	31.110	0.274
3 LESS 4	35	6.022	4.000	9.000	4.999	1.406	23.353	0.237
4 LESS 5	31	5.779	3.200	9.600	6.199	1.517	26.487	0.272
5 LESS 6	29	5.620	3.000	9.200	6.199	1.454	25.875	0.270
6 LESS 7	25	5.503	3.400	7.199	3.799	0.927	16.852	0.165
7 LESS 8	35	5.671	3.400	8.000	4.600	1.025	18.085	0.173
8 LESS 9	27	5.407	2.000	8.600	6.599	1.391	25.737	0.267
9 LESS 10	36	5.830	3.599	9.800	6.200	1.349	23.137	0.224
10 LESS 11	26	5.565	3.599	8.500	4.899	1.393	25.047	0.273
11 LESS 12	29	5.255	3.200	7.399	4.199	0.902	17.168	0.167

CHILDREN'S SUPRAILIAC SKINFOLD THICKNESS (MM) BY AGE (SEX COMBINED)

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	MEAN	RANGE	S.D	C.V	S.E.
0 LESS 1	34	4.802	6.000	1.285	26.764	0.220
1 LESS 2	57	5.133	6.599	1.574	30.665	0.208
2 LESS 3	75	5.597	7.400	1.530	27.348	0.176
3 LESS 4	59	5.905	5.800	1.488	25.215	0.193
4 LESS 5	63	5.430	7.199	1.569	27.800	0.190
5 LESS 6	57	5.463	6.199	1.320	24.176	0.174
6 LESS 7	65	5.487	6.000	1.228	22.379	0.152
7 LESS 8	82	5.896	7.599	1.433	24.314	0.158
8 LESS 9	60	5.759	7.199	1.504	26.117	0.194
9 LESS 10	69	5.465	6.600	1.324	24.239	0.159
10 LESS 11	66	5.607	5.399	1.325	23.632	0.163
11 LESS 12	63	5.168	5.000	0.962	18.623	0.121

MEAN SUPRAILIAC SKINFOLD THICKNESS INCREMENT (MM) BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

=====				
= AGE GROUP =		MEAN VALUES		=
=====				
=	(MONTH)	= MALES	= FEMALES	=
=====				
0	LESS 1	5.324	4.338	
1	LESS 2	-0.382	0.954	
2	LESS 3	0.939	-0.004	
3	LESS 4	-0.146	0.733	
4	LESS 5	-0.592	-0.293	
5	LESS 6	0.159	-0.108	
6	LESS 7	0.177	-0.116	
7	LESS 8	0.586	0.167	
8	LESS 9	-0.015	-0.264	
9	LESS 10	-0.981	0.423	
10	LESS 11	0.568	-0.265	
11	LESS 12	-0.540	-0.310	

MEAN SUBSCAPULAR SKINFOLD THICKNESS (MM) BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS) =====	NUMBER	M E A N	R A N G E			S.D	C.V.	S.F.
			MIN.	MAX.	VAL.			
M A L E S								
0 LESS 1	16	5.062	3.400	9.000	5.599	1.315	25.994	0.326
1 LESS 2	26	5.557	2.400	9.600	7.199	1.784	32.115	0.350
2 LESS 3	39	7.058	3.800	14.000	10.199	2.049	29.039	0.328
3 LESS 4	24	6.554	4.000	11.200	7.199	2.283	34.838	0.466
4 LESS 5	32	7.174	2.000	15.000	13.000	3.096	43.161	0.547
5 LESS 6	28	7.217	3.200	11.800	8.600	2.325	32.223	0.439
6 LESS 7	40	6.729	2.800	12.500	9.699	2.483	36.908	0.392
7 LESS 8	47	7.346	4.199	13.500	9.300	2.293	31.217	0.334
8 LESS 9	33	6.939	4.199	14.600	10.400	2.263	32.615	0.393
9 LESS 10	33	6.578	2.500	12.500	10.000	2.548	38.730	0.443
10 LESS 11	40	6.532	3.200	10.800	7.600	2.027	31.036	0.320
11 LESS 12	34	6.252	3.200	13.399	10.199	2.075	33.193	0.355

MEAN SUBSCAPULAR SKINFOLD THICKNESS (MM) BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	MEAN	RANGE		VAL.	S.D.	C.V.	S.E.
-----			MIN.	MAX.				
F E M A L E S								
0 LESS 1	18	4.266	2.400	5.800	3.400	1.031	24.170	0.243
1 LESS 2	31	7.012	3.800	14.799	10.999	2.811	40.088	0.564
2 LESS 3	36	6.888	3.000	13.500	10.500	2.607	37.857	0.434
3 LESS 4	35	7.651	4.400	17.000	12.599	2.665	34.833	0.450
4 LESS 5	31	8.012	3.400	13.000	9.600	2.701	33.710	0.485
5 LESS 6	29	7.662	3.200	15.799	12.599	3.153	41.154	0.585
6 LESS 7	29	6.383	2.800	9.800	7.000	1.893	29.664	0.378
7 LESS 8	35	6.959	3.800	12.000	8.199	2.168	31.153	0.366
8 LESS 9	27	6.440	2.000	10.500	8.500	1.710	26.560	0.329
9 LESS 10	36	6.869	3.400	14.500	11.100	2.500	36.397	0.410
10 LESS 11	26	6.407	3.000	10.200	7.199	2.211	34.517	0.433
11 LESS 12	29	6.220	3.200	11.500	8.299	2.061	33.146	0.372

CHILDREN'S CUBSCAPULAR SKINFOLD THICKNESS (MM) BY AGE (SEX COMBINED)

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS) =====	NUMBER	MEAN	RANGE	S.D	C.V	S.E.
0 LESS 1	34	4.641	6.599	1.223	26.367	0.209
1 LESS 2	57	6.349	12.399	2.488	39.189	0.329
2 LESS 3	75	6.977	11.000	2.319	33.249	0.267
3 LESS 4	59	7.205	12.999	2.554	35.459	0.332
4 LESS 5	63	7.587	13.000	2.916	38.434	0.367
5 LESS 6	57	7.443	12.599	2.762	37.107	0.365
6 LESS 7	65	6.596	9.699	2.265	34.344	0.281
7 LESS 8	82	7.181	9.699	2.235	31.128	0.246
8 LESS 9	60	6.714	12.600	2.032	30.265	0.262
9 LESS 10	69	6.730	12.000	2.508	37.275	0.302
10 LESS 11	66	6.483	7.800	2.086	32.175	0.256
11 LESS 12	63	6.238	10.199	2.052	32.905	0.258

MEAN SUBSCAPULAR SKINFOLD THICKNESS INCREMENTS (MM) BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

AGE GROUP (MONTH)	MEAN VALUES	
	MALES	FEMALES
0 LESS 1	5.062	4.266
1 LESS 2	0.495	2.746
2 LESS 3	1.501	-0.124
3 LESS 4	-0.504	0.762
4 LESS 5	0.620	0.361
5 LESS 6	0.042	-0.350
6 LESS 7	-0.487	-1.278
7 LESS 8	0.616	0.575
8 LESS 9	-0.407	-0.519
9 LESS 10	-0.360	0.428
10 LESS 11	-0.046	-0.461
11 LESS 12	-0.279	-0.187

APPENDIX VII

1

CHILDREN'S WEIGHT (KG) PERCENTILES BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	**3**	**10**	**25**	**50**	**75**	**90**	**97**
M A L E S							
0 LESS 1 16	3.095	3.290	3.712	4.416	5.211	6.035	9.661
1 LESS 2 26	3.121	3.388	3.923	4.444	5.321	6.071	6.391
2 LESS 3 39	3.987	4.227	4.742	5.254	5.892	6.563	7.364
3 LESS 4 24	4.049	4.418	5.060	5.940	6.970	8.125	8.865
4 LESS 5 32	4.057	4.451	5.430	6.083	6.651	7.255	7.879
5 LESS 6 28	4.955	5.387	6.310	7.185	8.140	9.269	10.224
6 LESS 7 39	5.028	5.628	6.490	7.614	7.804	8.741	9.142
7 LESS 8 46	5.734	6.442	7.096	7.990	8.883	9.665	10.334
8 LESS 9 35	6.534	6.894	7.543	8.243	9.384	9.898	10.479
9 LESS 10 33	5.648	6.156	7.245	8.403	9.063	9.984	10.644
10 LESS 11 39	6.176	7.092	8.244	8.880	9.678	10.512	11.307
11 LESS 12 34	6.833	7.443	7.942	8.621	9.240	9.988	10.946

CHILDREN'S WEIGHT (KG) PERCENTILES BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)		**3**	**10**	**25**	**50**	**75**	**90**	**97**
F E M A L E S								
0 LESS 1	19	3.054	3.171	3.422	3.840	4.352	4.666	5.182
1 LESS 2	32	3.063	3.204	3.506	4.060	4.767	5.471	6.119
2 LESS 3	36	3.165	3.535	4.086	4.695	5.232	5.549	6.066
3 LESS 4	35	4.018	4.326	4.892	5.533	6.282	7.080	8.279
4 LESS 5	31	3.862	4.970	5.424	5.988	6.475	7.215	9.265
5 LESS 6	29	4.894	5.192	5.803	6.671	7.380	8.130	9.318
6 LESS 7	25	4.583	5.834	6.306	6.883	7.383	8.024	8.543
7 LESS 8	35	5.881	6.420	6.844	7.437	8.029	8.734	9.599
8 LESS 9	26	4.610	6.571	6.883	7.410	8.600	9.090	11.157
9 LESS 10	36	6.137	6.681	7.209	7.877	8.548	9.023	9.586
10 LESS 11	26	5.490	7.003	7.624	8.196	8.822	9.557	10.277
11 LESS 12	29	5.569	6.765	7.311	7.923	8.772	9.538	9.895

CHILDREN'S WEIGHT (KG) PERCENTILES BY AGE (SEX COMBINED)
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)			**3**	**10**	**25**	**50**	**75**	**90**	**97**
=====			=====	=====	=====	=====	=====	=====	=====
0 LESS	1	19	3.054	3.171	3.427	3.640	4.352	4.606	5.182
1 LESS	2	32	3.063	3.204	3.506	4.060	4.767	5.471	6.119
2 LESS	3	36	3.165	3.535	4.086	4.695	5.232	5.549	6.066
3 LESS	4	35	4.018	4.326	4.897	5.533	6.282	7.080	8.279
4 LESS	5	31	3.862	4.970	5.424	5.988	6.475	7.215	9.265
5 LESS	6	29	4.894	5.192	5.803	6.671	7.380	8.130	9.318
6 LESS	7	25	4.543	5.834	6.306	6.883	7.383	8.024	8.543
7 LESS	8	35	5.881	6.420	6.844	7.437	8.029	8.734	9.599
8 LESS	9	26	4.610	6.571	6.883	7.410	8.600	9.090	11.157
9 LESS	10	36	6.137	6.661	7.209	7.877	8.548	9.023	9.586
10 LESS	11	26	5.490	7.003	7.624	8.196	8.822	9.357	10.277
11 LESS	12	29	5.569	6.765	7.311	7.923	8.772	9.538	9.895

CHILDREN'S HEIGHT (CM) PERCENTILES BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	**3**	**10**	**25**	**50**	**75**	**90**	**97**
	M A L E S						
0 LESS 1 16	47.213	49.352	50.655	52.894	58.547	62.110	73.965
1 LESS 2 26	44.554	50.044	52.514	54.889	57.777	61.254	65.225
2 LESS 3 39	53.462	54.944	57.009	58.434	59.859	63.123	66.581
3 LESS 4 24	53.531	55.127	58.157	61.558	63.838	66.717	69.253
4 LESS 5 32	56.605	57.821	60.412	62.439	64.698	66.978	68.341
5 LESS 6 28	59.981	61.278	63.273	65.944	68.665	71.324	76.397
6 LESS 7 39	60.475	61.419	63.439	65.634	67.486	69.994	71.723
7 LESS 8 46	61.003	62.363	64.770	67.340	70.320	72.902	75.349
8 LESS 9 35	64.234	65.080	66.894	69.004	70.587	71.537	73.699
9 LESS 10 33	60.552	65.055	68.057	69.624	71.192	73.462	75.827
10 LESS 11 40	65.783	68.153	69.030	70.471	72.199	74.479	75.542
11 LESS 12 34	68.184	68.595	69.476	70.944	73.298	75.452	78.171

CHILDREN'S HEIGHT (CM) PERCENTILES BY AGE AND SEX
 CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)			**3**	**10**	**25**	**50**	**75**	
			F E M A L E S					
0	LESS	1	19	39.956	49.361	50.444	52.248	54.591
1	LESS	2	32	49.479	50.543	52.810	54.499	56.188
2	LESS	3	36	51.146	53.084	54.017	55.572	57.565
3	LESS	4	35	53.845	56.172	57.429	58.940	60.562
4	LESS	5	31	57.065	58.096	60.304	61.834	63.306
5	LESS	6	29	56.295	58.082	60.752	62.720	65.340
6	LESS	7	25	59.639	60.988	62.413	64.653	66.480
7	LESS	8	34	57.955	60.590	62.743	65.676	68.348
8	LESS	9	27	56.068 ^s	60.970	64.048	66.965	69.485
9	LESS	10	36	60.564	63.756	65.479	67.759	70.780
10	LESS	11	26	55.954	65.454	68.110	69.410	70.710
11	LESS	12	29	63.895	65.126	67.192	69.917	72.559

90

97

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56.138	58.423
58.765	60.741
59.275	60.073
63.412	69.899
64.190	66.885
68.285	76.283
67.576	69.139
71.578	74.371
70.884	71.537
73.662	75.577
71.490	72.825
74.396	75.253

CHILDREN'S HEIGHT (CM) PERCENTILES BY AGE (SEX COMBINED)

CHILD GROWTH SURVEY - AHMAN

AGE (MONTHS)	**3**	**10**	**25**	**50**	**75**	**90**	**97**
0 LESS 1 19	39.956	49.361	50.444	52.248	54.591	56.138	58.423
1 LESS 2 32	49.479	50.543	52.810	54.499	56.188	58.765	60.741
2 LESS 3 36	51.146	53.084	54.017	55.572	57.565	59.275	60.073
3 LESS 4 35	53.845	56.172	57.429	58.940	60.562	63.412	69.899
4 LESS 5 31	57.065	58.096	60.304	61.834	63.306	64.190	66.885
5 LESS 6 29	56.295	58.082	60.752	62.720	65.340	68.285	76.283
6 LESS 7 25	59.639	60.788	62.413	64.653	66.480	67.576	69.139
7 LESS 8 34	57.955	60.590	62.743	65.676	68.346	71.578	74.371
8 LESS 9 27	56.068	60.970	64.048	66.965	69.485	70.884	71.537
9 LESS 10 36	60.564	63.756	65.479	67.759	70.780	73.662	75.577
10 LESS 11 26	55.954	65.454	68.110	69.410	70.710	71.490	72.825
11 LESS 12 29	63.895	65.126	67.192	69.917	72.559	74.396	75.253

CHILDREN'S HEAD CIRCUMFERENCE (CM) PERCENTILES

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)			**3**	**10**	**25**	**50**	**75**
=====			=====	=====	=====	=====	=====
			M A L E S				
0 LESS	1	16	33.388	34.463	35.928	36.568	38.183
1 LESS	2	26	34.636	35.968	36.885	37.578	38.568
2 LESS	3	39	35.385	37.632	38.475	39.122	39.849
3 LESS	4	24	35.539	37.823	38.975	40.085	41.052
4 LESS	5	32	38.642	39.180	39.866	40.569	42.491
5 LESS	6	28	39.494	40.676	41.252	42.486	43.325
6 LESS	7	40	39.900	40.583	41.873	42.675	43.315
7 LESS	8	47	40.300	41.730	42.543	43.480	44.348
8 LESS	9	35	42.493	42.829	43.499	44.145	45.407
9 LESS	10	33	41.558	42.609	43.084	43.925	45.312
10 LESS	11	40	42.519	42.968	43.928	45.076	46.329
11 LESS	12	34	41.587	42.944	44.008	45.045	46.026

BY AGE AND SEX

90 **97**
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40.031	45.907
39.468	40.819
41.075	46.204
43.103	45.676
44.256	51.206
45.479	47.481
44.447	45.951
45.472	46.934
46.248	47.279
46.272	48.297
47.783	48.832
46.828	48.268

CHILDREN'S HEAD CIRCUMFERENCE (CM) PERCENTILES BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)			**3**	**10**	**25**	**50**	**75**	**90**	**97**
=====			=====	=====	=====	=====	=====	=====	=====
			F E M A L E S						
0 LESS	1	19	33.988	34.307	34.992	36.057	37.136	38.047	38.473
1 LESS	2	32	34.163	34.880	35.956	36.729	38.098	39.456	44.486
2 LESS	3	36	35.342	35.986	36.726	37.898	38.921	39.744	40.550
3 LESS	4	35	36.767	37.746	38.375	39.211	40.632	43.704	47.279
4 LESS	5	31	37.993	38.655	39.152	40.086	41.385	42.935	47.817
5 LESS	6	29	37.603	38.944	40.041	41.045	41.856	42.377	46.492
6 LESS	7	25	38.064	39.776	40.716	41.466	42.216	42.975	44.687
7 LESS	8	35	39.695	40.708	41.212	41.963	43.031	44.575	45.360
8 LESS	9	27	37.955	38.559	41.472	42.555	43.512	44.512	45.116
9 LESS	10	36	40.584	41.068	41.845	42.805	43.928	45.183	46.305
10 LESS	11	26	36.556	41.183	42.201	43.445	44.226	45.183	46.579
11 LESS	12	29	40.483	41.987	42.700	43.396	44.372	45.407	46.057

CHILDREN'S HEAD CIRCUMFERENCE (CM) PERCENTILES BY AGE (SEX COMBINED)
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)		**3**	**10**	**25**	**50**	**75**	**90**	**97**
LESS 1	35	33.859	34.329	35.337	36.331	37.545	38.593	40.559
LESS 2	58	34.269	35.244	36.243	37.272	38.311	39.456	41.188
LESS 3	75	35.352	36.186	37.536	38.701	39.451	40.506	45.167
LESS 4	59	36.153	37.762	38.535	39.569	40.835	43.512	46.588
LESS 5	63	38.145	38.813	39.511	40.375	41.888	43.400	47.971
LESS 6	57	38.409	39.540	40.697	41.560	42.695	44.192	46.646
LESS 7	65	38.639	40.223	41.260	42.204	43.055	44.052	45.711
LESS 8	82	40.083	40.930	41.786	42.843	44.073	45.130	46.221
LESS 9	62	38.291	41.183	42.586	43.612	44.585	45.816	46.891
LESS 10	69	40.583	41.510	42.495	43.366	44.509	45.929	47.270
LESS 11	66	40.574	42.028	43.138	44.334	45.666	47.031	48.582
LESS 12	63	40.531	42.355	43.129	44.292	45.473	46.298	47.118

CHILDREN'S ARM CIRCUMFERENCE (CM) PERCENTILES BY AGE AND SEX
 CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)			**3**	**10**	**25**	**50**	**75**	**90**	**97**	
=====										
M A L E S										
0 LESS	1	16	9.087	9.356	11.371	12.167	12.612	13.015	14.033	
1 LESS	2	25	8.864	9.332	10.236	11.023	12.303	13.225	13.903	
2 LESS	3	39	10.895	11.082	11.576	12.394	13.007	13.943	15.142	
3 LESS	4	24	10.104	10.951	11.611	12.812	13.860	14.206	15.358	
4 LESS	5	32	9.202	10.039	11.845	12.803	13.447	14.215	14.981	
5 LESS	6	28	9.387	11.016	12.420	13.092	14.087	14.760	15.073	
6 LESS	7	40	10.920	11.371	12.443	13.442	14.083	14.971	16.603	
7 LESS	8	47	11.580	12.169	13.027	13.895	14.522	15.121	15.942	
8 LESS	9	35	11.535	12.372	12.876	14.185	14.983	15.811	16.399	
9 LESS	10	33	10.649	11.684	13.063	13.847	14.637	15.170	15.934	
10 LESS	11	40	11.399	12.331	13.489	14.122	14.669	15.527	16.843	
11 LESS	12	34	12.328	12.613	13.225	13.860	14.676	15.166	16.174	

CHILDREN'S ARM CIRCUMFERENCE (CM) PERCENTILES BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	**3**	**10**	**25**	**50**	**75**	**90**	**97**
F E M A L E S							
0 LESS 1 19	8.297	8.936	9.887	10.648	11.407	11.875	12.195
1 LESS 2 32	9.601	9.937	10.266	11.157	11.863	13.416	13.803
2 LESS 3 36	9.022	9.835	11.048	11.842	12.445	13.191	14.225
3 LESS 4 35	11.012	11.305	11.743	12.292	12.955	14.167	15.679
4 LESS 5 31	10.390	11.138	11.695	13.140	13.711	14.233	16.697
5 LESS 6 29	10.841	11.473	12.151	12.906	13.496	14.311	15.003
6 LESS 7 25	10.784	11.252	12.060	12.865	13.615	14.167	15.031
7 LESS 8 35	11.375	11.767	12.492	13.403	14.054	14.968	15.439
8 LESS 9 27	11.292	11.979	12.303	13.106	14.023	14.775	15.078
9 LESS 10 34	11.856	12.391	12.974	13.557	14.327	15.143	16.174
10 LESS 11 26	11.972	12.263	12.843	13.843	14.487	15.415	15.984
11 LESS 12 29	11.913	12.075	12.631	13.543	14.367	15.063	15.766

CHILDREN'S ARM CIRCUMFERENCE (CM) PERCENTILES BY AGE (SEX COMBINED)

CHILD GROWTH SURVEY - AMMAN

E (MONTHS)		**3**	**10**	**25**	**50**	**75**	**90**	**97**
LESS 1	19	8.297	8.936	9.887	10.646	11.407	11.875	12.195
LESS 2	32	9.601	9.937	10.266	11.157	11.863	13.416	13.803
LESS 3	36	9.022	9.835	11.048	11.842	12.445	13.191	14.225
LESS 4	35	11.012	11.305	11.743	12.292	12.955	14.167	15.677
LESS 5	31	10.390	11.138	11.695	13.140	13.711	14.233	16.697
LESS 6	29	10.841	11.473	12.151	12.906	13.496	14.311	15.003
LESS 7	25	10.784	11.252	12.060	12.865	13.615	14.167	15.031
LESS 8	35	11.375	11.767	12.492	13.403	14.054	14.968	15.439
LESS 9	27	11.292	11.979	12.303	13.106	14.023	14.775	15.078
LESS 10	34	11.856	12.391	12.974	13.557	14.327	15.143	16.174
LESS 11	26	11.972	12.763	12.843	13.843	14.487	15.415	15.984
LESS 12	29	11.913	12.075	12.631	13.543	14.367	15.063	15.766

MEAN TRICEPS SKINFOLD THICKNESS (MM) PERCENTILES BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)			**3**	**10**	**25**	**50**	**75**	**90**	**97**
			M A L E S						
0 LESS	1	16	3.518	4.189	4.809	5.457	5.965	6.934	7.270
1 LESS	2	26	3.098	3.447	4.564	5.736	6.170	8.869	11.161
2 LESS	3	39	4.444	4.989	5.698	6.236	6.911	8.044	10.927
3 LESS	4	24	4.262	4.617	5.314	6.210	7.257	9.994	11.197
4 LESS	5	32	3.203	3.875	5.678	6.904	8.307	9.709	10.453
5 LESS	6	28	3.733	4.654	6.009	7.409	8.486	9.449	9.925
6 LESS	7	40	3.275	4.429	5.604	6.804	8.006	9.214	10.054
7 LESS	8	47	4.692	5.524	6.007	7.170	9.059	11.809	12.727
8 LESS	9	34	4.441	5.654	6.829	7.293	8.305	10.294	12.817
9 LESS	10	33	4.423	5.202	5.829	6.903	7.559	10.024	13.435
10 LESS	11	40	4.774	5.663	6.022	7.102	8.010	9.807	10.227
11 LESS	12	34	4.528	4.814	5.266	6.514	7.252	7.929	11.617

MEAN TRICEPS SKINFOLD THICKNESS (MM) PERCENTILES BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	**3**	**10**	**25**	**50**	**75**	**90**	**97**
F E M A L E S							
0 LESS 1 10	2.118	2.369	3.065	4.609	5.510	6.049	7.105
1 LESS 2 31	3.347	3.672	4.520	5.164	6.859	8.584	10.223
2 LESS 3 36	3.277	3.997	4.645	5.875	6.505	7.167	7.981
3 LESS 4 35	3.859	4.632	5.719	6.991	8.690	10.032	10.399
4 LESS 5 31	4.093	4.744	5.719	6.916	8.260	9.789	11.071
5 LESS 6 29	4.352	4.692	5.460	6.865	8.840	11.089	13.507
6 LESS 7 24	4.861	5.434	5.861	6.609	7.304	8.989	9.997
7 LESS 8 35	4.729	5.232	5.786	6.505	7.859	10.129	12.199
8 LESS 9 27	2.516	4.512	5.159	6.509	7.329	8.704	10.543
9 LESS 10 36	4.138	5.164	5.704	7.103	8.466	9.489	10.981
10 LESS 11 26	4.565	4.930	5.532	6.118	7.054	8.734	11.161
11 LESS 12 29	4.352	4.789	5.395	6.509	7.879	8.497	9.307

MEAN TRICEPS SKINFOLD THICKNESS (MM) PERCENTILES BY AGE (SEX COMBINED)
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)		**3**	**10**	**25**	**50**	**75**	**90**	**97**
0 LESS 1	18	2.118	2.369	3.065	4.609	5.510	6.049	7.105
1 LESS 2	31	3.347	3.672	4.520	5.164	6.859	8.584	10.223
2 LESS 3	36	3.277	3.997	4.645	5.875	6.505	7.167	7.981
3 LESS 4	35	3.859	4.632	5.719	6.991	8.690	10.032	10.399
4 LESS 5	31	4.093	4.744	5.719	6.916	8.260	9.789	11.071
5 LESS 6	29	4.352	4.692	5.460	6.865	8.840	11.689	13.507
6 LESS 7	24	4.861	5.434	5.861	6.609	7.304	8.989	9.997
7 LESS 8	35	4.729	5.232	5.786	6.505	7.859	10.129	12.199
8 LESS 9	27	2.516	4.512	5.159	6.509	7.329	8.704	10.543
9 LESS 10	36	4.138	5.164	5.704	7.103	8.486	9.489	10.981
10 LESS 11	26	4.565	4.930	5.532	6.118	7.054	8.734	11.161
11 LESS 12	29	4.352	4.789	5.395	6.309	7.879	8.497	9.307

MEAN BICEPS SKINFOLD THICKNESS (MM) PERCENTILES BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	**3**	**10**	**25**	**50**	**75**	**90**	**97**
	M A L E S						
0 LESS 1 16	2.657	2.949	3.395	3.877	4.346	4.717	5.008
1 LESS 2 26	2.431	2.806	3.675	4.189	5.388	6.276	6.820
2 LESS 3 39	3.145	3.382	3.757	4.285	5.139	5.519	6.388
3 LESS 4 24	2.920	3.165	3.477	3.888	4.476	5.548	6.331
4 LESS 5 32	2.262	2.736	3.638	4.293	5.197	5.554	7.246
5 LESS 6 28	2.462	3.113	3.477	4.314	4.866	5.769	7.309
6 LESS 7 40	2.325	3.043	3.489	4.176	5.125	5.912	7.121
7 LESS 8 47	3.063	3.235	3.601	4.301	6.033	6.623	7.886
8 LESS 9 34	2.798	3.134	3.465	4.431	5.489	6.446	9.815
9 LESS 10 33	2.530	3.062	3.384	3.848	4.475	5.087	5.477
10 LESS 11 40	2.325	3.149	3.666	4.186	4.866	5.470	6.380
11 LESS 12 34	2.798	3.165	3.580	3.896	4.264	4.529	4.867

MEAN BICEPS SKINFOLD THICKNESS (MM) PERCENTILES
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)			**3**	**10**	**25**	**50**	**75**
*****			-----				
			F E M A L E S				
0 LESS	1	18	2.102	2.320	2.721	3.563	3.898
1 LESS	2	31	2.509	2.799	3.201	3.694	4.508
2 LESS	3	36	2.293	2.734	3.184	3.669	4.612
3 LESS	4	35	2.806	3.308	3.889	4.761	5.579
4 LESS	5	31	2.509	2.799	3.331	3.972	4.769
5 LESS	6	29	2.639	2.903	3.468	4.214	4.891
6 LESS	7	25	2.208	2.806	3.611	4.310	5.067
7 LESS	8	35	2.806	3.174	3.594	3.973	4.652
8 LESS	9	27	2.447	2.671	3.022	4.033	5.197
9 LESS	10	36	2.715	3.152	3.786	4.318	5.211
10 LESS	11	26	3.101	3.236	3.526	4.085	4.868
11 LESS	12	29	2.679	3.031	3.487	3.938	5.067

BY AGE AND SEX

90 **97**
=====

4.209	4.865
5.886	7.262
5.568	6.412
6.775	7.199
5.626	6.222
5.717	7.293
5.581	5.977
5.385	5.639
6.510	8.884
5.756	6.664
6.393	9.940
6.198	6.773

MEAN BICEPS SKINFOLD THICKNESS (MM) PERCENTILES BY AGE (SEX COMBINED)
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)		**3**	**10**	**25**	**50**	**75**	**90**	**97**
0 LESS 1	18	2.102	2.320	2.721	3.563	3.898	4.209	4.865
1 LESS 2	31	2.509	2.799	3.201	3.674	4.508	5.886	7.262
2 LESS 3	36	2.293	2.734	3.184	3.669	4.612	5.568	6.412
3 LESS 4	35	2.806	3.308	3.889	4.761	5.579	6.775	7.199
4 LESS 5	31	2.509	2.799	3.331	3.972	4.769	5.626	6.222
5 LESS 6	29	2.639	2.903	3.468	4.214	4.891	5.717	7.293
6 LESS 7	25	2.208	2.806	3.611	4.310	5.067	5.581	5.977
7 LESS 8	35	2.806	3.174	3.594	3.973	4.652	5.385	5.639
8 LESS 9	27	2.447	2.671	3.022	4.033	5.197	6.510	8.884
9 LESS 10	36	2.715	3.152	3.786	4.318	5.211	5.756	6.664
10 LESS 11	26	3.101	3.236	3.526	4.085	4.868	6.393	9.940
11 LESS 12	29	2.679	3.031	3.487	3.938	5.067	6.198	6.773

MEAN SUPRAILIAC SKINFOLD THICKNESS (MM)

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)		**3**	**10**	**25**	**50**
M A L E S					
0 LESS 1	16	3.697	3.989	4.435	5.124
1 LESS 2	26	2.215	2.857	3.867	4.736
2 LESS 3	39	3.674	4.418	5.016	5.680
3 LESS 4	24	3.440	3.811	4.605	5.652
4 LESS 5	32	2.522	3.083	4.257	5.125
5 LESS 6	28	2.751	3.707	4.603	5.145
6 LESS 7	40	3.083	3.568	4.604	5.420
7 LESS 8	47	3.619	4.047	4.585	5.908
8 LESS 9	33	3.830	4.220	4.769	5.908
9 LESS 10	33	3.310	3.700	4.164	5.155
10 LESS 11	40	3.722	4.083	4.473	5.557
11 LESS 12	34	3.076	3.811	4.541	5.018

PERCENTILE BY AGE AND SEX

75	**90**	**97**
=====	=====	=====
5.471	7.953	9.056
6.255	7.056	8.900
6.588	7.869	8.224
6.692	8.149	9.105
5.957	7.440	7.766
6.033	6.744	7.829
6.269	7.225	8.081
7.127	8.127	9.217
6.888	8.207	9.117
5.744	6.463	8.791
6.798	7.145	7.680
5.460	6.068	7.987

MEAN SUPRAILIAC SKINFOLD THICKNESS (MM) PERCENT
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)			**3**	**10**	**25**	**50**	**75**	
			F E M A L E S					
0	LESS	1	18	2.622	2.940	3.607	3.997	5.385
1	LESS	2	31	3.167	3.449	4.267	5.073	5.865
2	LESS	3	36	2.715	3.209	3.981	5.125	6.342
3	LESS	4	35	3.846	4.281	4.964	5.841	7.023
4	LESS	5	31	3.209	3.598	4.738	5.532	6.732
5	LESS	6	29	2.998	3.807	4.423	5.581	6.654
6	LESS	7	25	3.456	4.241	4.678	5.593	6.315
7	LESS	8	35	3.611	4.281	5.161	5.616	6.446
8	LESS	9	27	2.447	3.755	4.565	5.451	6.329
9	LESS	10	36	4.091	4.309	4.777	5.700	6.688
10	LESS	11	26	3.703	4.019	4.387	5.256	6.446
11	LESS	12	29	3.518	4.067	4.752	5.160	5.778

LLEBY AGE AND SEX

90

97

=====	=====
5.704	6.032
7.966	9.051
7.797	8.234
7.988	9.019
7.706	9.342
7.277	8.853
6.640	7.017
7.011	7.719
7.031	8.364
7.624	8.744
7.953	8.570
6.532	7.293

MEAN SUPRATILIAE SKINFOLD THICKNESS (MM) PERCENTILE BY AGE (SEX COMBINED)
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	**3**	**10**	**25**	**50**	**75**	**90**	**97**
0 LESS 1 34	2.705	3.275	3.655	4.782	5.429	5.809	8.775
1 LESS 2 57	2.457	3.397	4.034	4.920	6.003	7.381	8.992
2 LESS 3 75	2.745	3.694	4.585	5.461	6.479	7.835	8.225
3 LESS 4 59	3.645	4.074	4.782	5.774	6.925	8.047	9.056
4 LESS 5 63	2.764	3.330	4.392	5.360	6.458	7.524	8.323
5 LESS 6 57	2.825	3.742	4.473	5.489	6.315	7.057	8.068
6 LESS 7 65	3.170	3.828	4.619	5.490	6.292	6.881	8.291
7 LESS 8 82	3.613	4.139	4.821	5.708	6.769	7.704	9.035
8 LESS 9 60	3.481	4.083	4.668	5.643	6.578	8.037	8.976
9 LESS 10 69	3.570	3.988	4.425	5.360	6.072	7.349	8.749
10 LESS 11 66	3.710	4.053	4.434	5.434	6.747	7.176	8.518
11 LESS 12 63	3.284	3.908	4.649	5.080	5.557	6.387	7.761

MEAN SUBSCAPULAR SKINFOLD THICKNESS (MM) PERCENTILES BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)			**3**	**10**	**25**	**50**	**75**	**90**	**97**
			M A L E S						
0 LESS	1	16	3.359	3.694	4.210	4.857	5.457	6.469	8.941
1 LESS	2	26	2.498	3.447	4.482	5.457	6.664	8.289	9.361
2 LESS	3	39	4.426	4.753	5.380	7.054	8.430	9.629	10.363
3 LESS	4	24	3.954	4.289	4.857	5.809	8.614	10.294	11.197
4 LESS	5	32	2.302	3.449	5.010	6.904	9.409	11.854	14.653
5 LESS	6	28	3.467	4.654	5.804	6.925	8.315	11.074	11.725
6 LESS	7	40	3.349	4.107	4.885	5.962	8.209	10.429	11.554
7 LESS	8	47	4.427	4.625	5.233	7.170	8.529	10.609	12.583
8 LESS	9	33	4.404	4.635	5.260	6.664	7.759	9.724	14.635
9 LESS	10	33	3.211	3.904	4.795	5.941	7.219	10.849	12.517
10 LESS	11	40	3.849	4.403	4.803	6.210	8.010	9.957	10.377
11 LESS	12	34	3.520	4.017	4.706	6.104	7.225	8.389	12.817

MEAN SUBSCAPULAR SKINFOLD THICKNESS (MM) PERCENTILES BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)			**3**	**10**	**25**	**50**	**75**	**90**	**97**
F E M A L E S									
0 LESS 1	18		2.354	2.855	3.509	4.257	5.109	5.674	6.052
1 LESS 2	31		3.897	4.114	4.760	6.664	8.180	10.384	14.671
2 LESS 3	36		3.225	3.730	4.707	6.889	8.409	10.167	12.181
3 LESS 4	35		4.531	4.826	5.779	7.105	9.260	10.729	12.799
4 LESS 5	31		3.493	4.029	6.359	7.729	9.889	11.884	12.871
5 LESS 6	29		3.751	4.542	5.260	7.182	9.139	12.289	15.307
6 LESS 7	25		3.079	4.265	4.729	6.132	8.270	9.065	9.979
7 LESS 8	25		4.130	4.555	5.159	6.854	8.459	10.264	10.999
8 LESS 9	27		2.516	4.324	5.679	6.432	7.579	8.502	10.543
9 LESS 10	36		3.539	4.443	4.803	6.104	8.514	10.213	10.981
10 LESS 11	26		3.098	3.994	4.909	5.614	8.465	10.017	10.290
11 LESS 12	29		3.751	3.994	4.489	5.954	7.125	9.844	11.107

MEAN SUBSCAPULAR SKINFOLD THICKNESS (MM) PERCENTILES BY AGE (SEX COMBINED)
CHILD GROWTH SURVEY - ANMAN

AGE (MONTHS)	**3**	**10**	**25**	**50**	**75**	**90**	**97**
0 LESS 1 34	2.620	3.254	3.847	4.575	5.304	5.929	8.617
1 LESS 2 57	3.314	3.864	4.597	5.904	7.382	9.604	15.603
2 LESS 3 75	3.460	4.332	5.119	6.963	8.420	9.954	12.079
3 LESS 4 59	4.164	4.596	5.279	6.582	8.859	10.444	12.367
4 LESS 5 63	2.582	3.722	5.559	7.157	9.629	11.862	12.895
5 LESS 6 57	3.552	4.574	5.619	7.036	8.839	11.669	14.203
6 LESS 7 65	3.199	4.154	4.798	6.009	8.239	10.632	11.329
7 LESS 8 82	4.302	4.596	5.185	7.041	8.503	10.377	12.076
8 LESS 9 60	3.969	4.575	5.486	6.505	7.707	9.214	11.149
9 LESS 10 69	3.368	4.189	4.798	6.009	8.359	10.314	12.493
10 LESS 11 66	3.508	4.237	4.827	5.965	8.185	9.983	10.330
11 LESS 12 63	3.587	4.001	4.640	6.027	7.164	9.049	11.075

CHILDREN'S WEIGHT (KI.)

AGE (MONTHS)	NUMBER	MEAN
-----	-----	-----
0 - 3	81	4.949
3 - 6	84	6.444
6 - 9	120	7.785
9 - 12	106	8.587
12 - 15	104	9.228
15 - 18	97	9.617
18 - 21	96	10.578
21 - 24	95	10.781
24 - 27	76	11.225
27 - 30	94	11.784
30 - 33	83	12.358
33 - 36	92	12.704
36 - 39	107	13.272
39 - 42	78	13.610
42 - 45	71	14.509
45 - 48	97	14.829
48 - 51	80	14.842
51 - 54	90	15.371
54 - 57	62	15.454
57 - 60	65	16.371
60 - 63	138	16.647

BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

MIN.	RANGE MAX.	VAL.	S.D.	C.V.	S.E.
M A L E S					
3.000	9.700	6.699	1.110	22.439	0.123
3.940	10.500	6.559	1.316	20.430	0.143
3.099	10.899	7.799	1.273	16.362	0.116
4.400	11.450	7.050	1.258	14.652	0.122
4.699	11.950	7.250	1.300	14.087	0.127
6.149	12.600	6.450	1.348	14.022	0.136
6.760	16.430	9.669	1.418	13.408	0.144
5.350	13.750	8.399	1.302	12.081	0.133
8.050	13.670	5.619	1.123	10.009	0.128
8.500	14.500	6.000	1.223	10.384	0.126
8.200	15.299	7.099	1.346	10.896	0.147
8.600	15.700	7.100	1.390	10.944	0.144
9.360	18.600	9.220	1.734	13.071	0.167
10.600	18.750	8.149	1.728	12.701	0.195
10.450	18.600	8.150	1.500	10.892	0.187
9.600	19.000	9.399	1.556	10.498	0.158
10.899	21.900	11.000	1.736	11.700	0.194
10.350	21.100	10.750	1.759	11.443	0.185
10.600	20.750	10.149	1.746	11.291	0.221
10.750	22.000	11.250	1.868	11.412	0.231
6.550	22.400	15.850	2.136	12.833	0.181

CHILDREN'S WEIGHT (KG) BY AGE AND SEX

2

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS) *****	NUMBER	M E A N	R A N G E			S.D.	C.V.	S.E.
			MIN.	MAX.	VAL.			
F E M A L E S								
0 - 3	87	4.323	2.639	6.100	3.460	0.765	17.704	0.082
3 - 6	95	6.141	3.099	9.399	6.299	1.097	17.876	0.112
6 - 9	86	7.381	4.449	11.200	6.750	1.061	14.384	0.114
9 - 12	91	8.053	4.949	10.700	5.750	0.986	12.252	0.103
12 - 15	96	8.427	5.699	11.130	5.430	1.160	13.773	0.118
15 - 18	100	9.144	5.199	14.549	9.350	1.282	14.020	0.128
18 - 21	71	9.575	6.500	11.950	5.450	1.182	12.347	0.140
21 - 24	83	10.316	6.800	15.750	8.950	1.606	15.573	0.176
24 - 27	115	10.849	7.000	14.000	7.000	1.309	12.080	0.122
27 - 30	69	11.433	7.500	14.299	6.799	1.285	11.246	0.154
30 - 33	92	11.997	8.800	15.000	6.199	1.261	10.517	0.131
33 - 36	82	12.270	6.550	17.600	11.050	1.637	13.346	0.180
36 - 39	95	12.908	10.300	16.500	6.199	1.309	10.143	0.134
39 - 42	71	13.475	10.000	18.400	8.400	1.657	12.302	0.196
42 - 45	73	14.014	10.250	18.250	7.999	1.624	11.588	0.190
45 - 48	93	14.264	9.800	17.700	7.899	1.589	11.187	0.164
48 - 51	86	14.473	10.600	19.700	9.100	1.628	11.250	0.175
51 - 54	58	14.710	9.540	18.650	9.110	1.766	12.011	0.232
54 - 57	40	15.235	11.899	20.549	8.649	1.649	10.824	0.260
57 - 60	67	15.686	12.000	21.000	9.000	1.912	12.194	0.233
60 - 63	158	16.183	6.100	23.200	17.099	2.196	13.573	0.174

CHILDREN'S HEIGHT (KG) BY (SEX COMBINED)

23

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)	NUMBER	MEAN	RANGE	S.D.	C.V.	S.E.
0 - 3	163	4.625	7.060	0.995	21.523	0.076
3 - 6	173	6.283	7.399	1.211	19.280	0.090
6 - 9	206	7.616	8.100	1.203	15.805	0.083
9 - 12	197	8.340	7.050	1.169	14.016	0.083
12 - 15	200	8.843	7.250	1.295	14.650	0.091
15 - 18	197	9.377	9.350	1.333	14.216	0.094
18 - 21	167	10.152	9.929	1.409	13.886	0.109
21 - 24	178	10.565	10.399	1.466	13.881	0.109
24 - 27	191	10.992	7.000	1.250	11.372	0.090
27 - 30	163	11.035	7.000	1.258	10.816	0.098
30 - 33	173	12.168	7.099	1.311	10.777	0.099
33 - 36	174	12.499	11.050	1.523	12.185	0.115
36 - 39	202	13.101	9.220	1.556	11.878	0.109
39 - 42	149	13.546	8.750	1.690	12.482	0.138
42 - 45	144	14.258	8.350	1.616	11.335	0.134
45 - 48	190	14.523	9.399	1.599	11.013	0.116
48 - 51	166	14.651	11.300	1.686	11.510	0.130
51 - 54	144	15.112	11.560	1.785	11.816	0.146
54 - 57	102	15.374	10.149	1.704	11.084	0.166
57 - 60	132	16.023	11.250	1.914	11.950	0.166
60 - 63	296	16.400	17.099	2.177	13.277	0.126

MEAN WEIGHT INCREMENT (KG) BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

AGE GROUP (MONTH)	MEAN VALUES	
	MALES	FEMALES
0- 3	4.949	4.323
3- 6	1.494	1.817
6- 9	1.341	1.240
9-12	0.802	0.671
12-15	0.640	0.374
15-18	0.389	0.716
18-21	0.960	0.431
21-24	0.203	0.742
24-27	0.443	0.520
27-30	0.559	0.594
30-33	0.574	0.563
33-36	0.345	0.272
36-39	0.568	0.638
39-42	0.337	0.566
42-45	0.899	0.539
45-48	0.319	0.169
48-51	0.012	0.268
51-54	0.529	0.237
54-57	0.092	0.525
57-60	0.906	0.451
60-63	0.276	0.496



CHILDREN'S HEIGHT (CM)

97
 98

AGE (MONTHS)

NUMBER

M E A N

0 - 3	81	56.682
3 - 6	84	63.320
6 - 9	120	67.419
9 - 12	107	70.451
12 - 15	102	73.555
15 - 18	96	76.562
18 - 21	96	78.287
21 - 24	93	80.683
24 - 27	76	81.943
27 - 30	93	83.462
30 - 33	84	85.782
33 - 36	93	87.803
36 - 39	106	89.254
39 - 42	78	91.225
42 - 45	71	94.201
45 - 48	97	96.347
48 - 51	80	96.512
51 - 54	90	97.882
54 - 57	61	100.665
57 - 60	65	102.824
60 - 63	138	102.597

99
 100

BY AGE AND SEX

5

CHILD GROWTH SURVEY - AMMAN

MIN.	RANGE MAX.	VAL.	S.D	C.V.	S.E.
M A L E S					
44.599	74.199	29.599	4.530	7.992	0.503
53.000	79.199	26.199	4.208	6.645	0.459
55.699	91.000	35.300	3.800	5.637	0.346
59.199	76.900	17.700	2.692	3.821	0.260
59.800	80.900	21.100	3.663	4.980	0.362
63.400	84.400	21.000	3.454	4.511	0.352
39.500	96.100	56.600	6.500	8.303	0.663
71.199	90.000	18.800	4.672	5.047	0.422
71.000	92.000	21.000	4.154	5.070	0.476
34.300	95.000	60.699	7.198	8.624	0.746
48.099	98.900	50.800	6.467	7.539	0.705
43.000	103.000	60.000	6.516	7.422	0.675
67.699	99.000	31.300	5.060	5.669	0.491
79.000	103.500	24.500	4.397	4.820	0.497
83.400	111.500	28.099	4.532	4.611	0.537
72.600	109.100	36.500	4.334	4.499	0.440
67.100	110.300	43.200	5.094	5.278	0.569
76.500	111.899	35.400	5.226	5.339	0.550
91.199	114.300	23.100	4.083	4.056	0.522
94.900	114.899	19.999	4.124	4.010	0.511
40.099	123.300	83.200	9.377	9.140	0.798

MIN. RANGE MAX. VAL.

F E M A L E S

MIN.	RANGE	MAX.	VAL.	S.D	C.V.	S.E.
39.400	63.199	23.799	3.190	5.820	0.342	
54.099	77.300	23.200	3.526	5.745	0.361	
56.000	73.199	17.199	3.555	5.421	0.383	
54.400	76.400	22.000	3.385	4.898	0.354	
63.000	94.400	31.400	4.430	6.127	0.454	
65.500	84.100	18.600	3.949	5.305	0.392	
35.300	86.400	51.100	5.912	7.716	0.701	
65.800	101.000	35.200	4.539	5.711	0.504	
54.300	90.300	36.000	4.508	5.567	0.422	
68.800	94.100	25.300	4.377	5.248	0.526	
65.800	101.900	36.100	4.810	5.612	0.504	
54.900	99.199	44.299	6.023	6.973	0.665	
63.699	109.100	45.400	5.120	5.746	0.525	
72.699	109.000	36.300	5.415	5.900	0.642	
60.800	109.600	48.800	6.455	6.891	0.755	
82.900	104.399	21.499	4.582	4.827	0.475	
82.800	107.100	24.300	4.192	4.390	0.452	
78.300	112.199	33.900	5.547	5.692	0.728	
91.400	112.600	21.200	4.379	4.418	0.692	
60.900	112.500	51.599	6.802	6.775	0.831	
64.699	120.300	55.600	6.789	6.592	0.540	

CHILDREN'S HEIGHT (CM)	NUMBER	AGE (MONTHS)
54.805	87	0 - 3
61.382	95	3 - 6
65.583	86	6 - 9
69.103	91	9 - 12
72.308	95	12 - 15
74.443	101	15 - 18
76.614	71	18 - 21
79.485	81	21 - 24
80.983	114	24 - 27
83.392	69	27 - 30
85.708	91	30 - 33
86.374	82	33 - 36
89.094	95	36 - 39
91.781	71	39 - 42
93.672	73	42 - 45
94.926	93	45 - 48
95.491	86	48 - 51
97.444	58	51 - 54
99.102	40	54 - 57
100.395	67	57 - 60
102.987	158	60 - 63

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CHILDREN'S HEIGHT (CM) NUMBER M E A N

AGE (MONTHS)

CHILDREN'S HEIGHT

AGE (MONTHS)

0 - 3

3 - 6

6 - 9

9 - 12

12 - 15

15 - 18

18 - 21

21 - 24

24 - 27

27 - 30

30 - 33

33 - 36

36 - 39

39 - 42

42 - 45

45 - 48

48 - 51

51 - 54

54 - 57

57 - 60

60 - 63

(CM) BY AGE (SEX COMBINED)

7

CHILD GROWTH SURVEY - AMMAN

NUMBER	MEAN	RANGE	S.D	C.V	S.E.
168	55.710	34.799	3.994	7.170	0.308
179	62.291	26.199	3.970	6.374	0.296
206	66.653	35.300	3.801	5.703	0.264
198	69.831	22.500	3.096	4.434	0.220
197	72.954	34.600	4.089	5.604	0.291
197	75.476	21.000	3.855	5.108	0.274
167	77.576	60.800	6.293	8.113	0.487
174	80.125	35.200	4.325	5.398	0.327
190	81.367	37.699	4.384	5.388	0.318
162	83.432	60.699	6.140	7.359	0.462
175	85.744	53.800	5.649	6.588	0.427
175	87.133	60.000	6.312	7.245	0.477
201	89.179	45.400	5.076	5.692	0.358
149	91.490	36.300	4.899	5.355	0.401
144	93.933	50.699	5.577	5.937	0.464
190	95.652	36.500	4.502	4.707	0.326
166	95.983	43.200	4.662	4.858	0.361
148	97.710	35.700	5.340	5.465	0.438
101	100.046	23.100	4.251	4.249	0.423
132	101.591	55.999	5.753	5.663	0.500
296	102.805	83.200	8.087	7.866	0.470

MEAN HEIGHT INCREMENT (CM) BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

AGE GROUP	MEAN VALUES	
(MONTH)	MALES	FEMALES
0- 3	56.682	54.805
3- 6	6.637	6.576
6- 9	4.098	4.201
9-12	3.032	3.519
12-15	3.104	3.205
15-18	3.006	2.135
18-21	1.725	2.170
21-24	2.396	2.871
24-27	1.259	1.498
27-30	1.518	2.409
30-33	2.319	2.316
33-36	2.021	0.665
36-39	1.451	2.720
39-42	1.970	2.686
42-45	2.975	1.690
45-48	2.146	1.254
48-51	0.165	0.564
51-54	1.369	1.952
54-57	2.783	1.657
57-60	2.159	1.293
60-63	-0.227	2.591



MEAN WEIGHT/HEIGHT RATIO

AGE (MONTHS) NUMBER M E A N

0 - 3	81	0.086
3 - 6	84	0.101
6 - 9	118	0.115
9 - 12	106	0.121
12 - 15	102	0.125
15 - 18	96	0.125
18 - 21	95	0.136
21 - 24	93	0.133
24 - 27	76	0.136
27 - 30	93	0.142
30 - 33	83	0.144
33 - 36	92	0.145
36 - 39	106	0.148
39 - 42	78	0.148
42 - 45	71	0.153
45 - 48	97	0.153
48 - 51	80	0.153
51 - 54	90	0.156
54 - 57	61	0.153
57 - 60	65	0.158
60 - 63	138	0.163

(KG/CM) BY AGE AND SEX
 CHILD GROWTH SURVEY - AMMAN

9

MIN.	R A N G E MAX.	VAL.	S.D	C.V.	S.E.
M A L E S					
0.058	0.130	0.072	0.013	15.656	0.001
0.069	0.135	0.066	0.015	15.469	0.001
0.043	0.150	0.107	0.016	14.662	0.001
0.074	0.161	0.087	0.015	12.892	0.001
0.065	0.153	0.088	0.015	12.033	0.001
0.078	0.151	0.073	0.014	11.405	0.001
0.090	0.265	0.175	0.021	15.750	0.002
0.068	0.174	0.106	0.013	9.765	0.001
0.112	0.161	0.049	0.010	7.369	0.001
0.105	0.325	0.219	0.025	17.671	0.002
0.116	0.249	0.133	0.018	12.599	0.002
0.117	0.311	0.193	0.021	14.450	0.002
0.111	0.216	0.105	0.016	10.817	0.001
0.115	0.195	0.079	0.015	10.309	0.001
0.120	0.185	0.065	0.013	8.546	0.001
0.123	0.194	0.070	0.013	8.614	0.001
0.112	0.215	0.103	0.015	9.984	0.001
0.126	0.194	0.068	0.013	8.725	0.001
0.099	0.196	0.096	0.014	9.406	0.001
0.105	0.191	0.085	0.013	8.691	0.001
0.104	0.431	0.326	0.028	17.500	0.002

MEAN WEIGHT/HEIGHT RATIO

AGE (MONTHS) =====	NUMBER	M E A N -----
0 - 3	87	0.078
3 - 6	95	0.099
6 - 9	85	0.112
9 - 12	91	0.116
12 - 15	95	0.116
15 - 18	100	0.122
18 - 21	71	0.125
21 - 24	81	0.129
24 - 27	114	0.133
27 - 30	69	0.136
30 - 33	91	0.140
33 - 36	82	0.142
36 - 39	95	0.144
39 - 42	71	0.146
42 - 45	73	0.149
45 - 48	93	0.149
48 - 51	86	0.151
51 - 54	58	0.150
54 - 57	40	0.153
57 - 60	67	0.156
60 - 63	158	0.156

(KG/CM) BY AGE AND SEX
 CHILD GROWTH SURVEY - AMMAN

10

MIN.	RANGE MAX.	VAL.	S.D.	C.V.	S.E.
F F M A L E S					
0.051	0.103	0.051	0.011	14.008	0.001
0.052	0.160	0.107	0.015	15.166	0.001
0.078	0.156	0.077	0.012	11.478	0.001
0.082	0.156	0.073	0.012	10.438	0.001
0.083	0.146	0.062	0.013	11.768	0.001
0.074	0.184	0.110	0.014	11.954	0.001
0.089	0.264	0.175	0.021	16.698	0.002
0.090	0.189	0.099	0.016	12.916	0.001
0.103	0.195	0.091	0.014	10.709	0.001
0.106	0.166	0.060	0.012	8.814	0.001
0.096	0.170	0.073	0.011	8.314	0.001
0.089	0.204	0.115	0.017	12.486	0.001
0.115	0.211	0.096	0.012	8.964	0.001
0.113	0.183	0.069	0.013	9.521	0.001
0.109	0.197	0.087	0.015	10.483	0.001
0.107	0.182	0.074	0.013	8.786	0.001
0.121	0.212	0.090	0.014	9.818	0.001
0.121	0.183	0.061	0.013	8.792	0.001
0.126	0.189	0.063	0.012	8.421	0.002
0.129	0.197	0.067	0.014	9.517	0.001
0.094	0.223	0.128	0.017	10.893	0.001

MEAN WEIGHT/HEIGHT

AGE (MONTHS)
 =====

0 - 3

3 - 6

6 - 9

9 - 12

12 - 15

15 - 18

18 - 21

21 - 24

24 - 27

27 - 30

30 - 33

33 - 36

36 - 39

39 - 42

42 - 45

45 - 48

48 - 51

51 - 54

54 - 57

57 - 60

60 - 63

RATIO (KG/CM) BY AGE (SEX COMBINED)
 CHILD GROWTH SURVEY - AMMAN

11

NUMBER	MEAN	RANGE	S.D	C.V	S.E.
168	0.082	0.078	0.012	15.657	0.000
179	0.100	0.107	0.015	15.253	0.001
203	0.113	0.112	0.015	13.476	0.001
197	0.119	0.087	0.014	12.051	0.001
197	0.120	0.088	0.015	12.446	0.001
196	0.123	0.110	0.014	11.702	0.001
166	0.131	0.176	0.021	16.541	0.001
174	0.131	0.120	0.014	11.367	0.001
190	0.134	0.091	0.012	9.525	0.000
162	0.140	0.219	0.020	14.858	0.001
174	0.142	0.152	0.015	10.741	0.001
174	0.143	0.222	0.019	13.591	0.001
201	0.146	0.105	0.014	10.040	0.001
149	0.147	0.081	0.014	9.946	0.001
144	0.151	0.087	0.014	9.612	0.001
190	0.151	0.086	0.013	8.791	0.000
166	0.152	0.103	0.015	9.898	0.001
148	0.154	0.072	0.013	8.939	0.001
101	0.153	0.096	0.013	8.986	0.001
132	0.157	0.091	0.014	9.119	0.001
296	0.159	0.337	0.023	14.609	0.001

11
12

13
14

15
16

17
18

MEAN HEIGHT/WEIGHT INCREMENT (KG/CM) BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

AGE GROUP	MEAN VALUES	
(MONTH)	MALES	FEMALES
0- 3	0.086	0.078
3- 6	0.014	0.021
6- 9	0.013	0.012
9-12	0.006	0.004
12-15	0.003	-0.000
15-18	-0.000	0.006
18-21	0.010	0.003
21-24	-0.002	0.003
24-27	0.003	0.004
27-30	0.006	0.003
30-33	0.001	0.003
33-36	0.000	0.002
36-39	0.002	0.002
39-42	0.000	0.001
42-45	0.004	0.003
45-48	-0.000	-0.000
48-51	-0.000	0.002
51-54	0.003	-0.000
54-57	-0.003	0.002
57-60	0.005	0.002
60-63	0.004	0.000

CHILDREN'S HEAD CIRCUMFERENCE

AGE (MONTHS)	NUMBER	MEAN
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=====

0 - 3	81	38.453
3 - 6	84	41.499
6 - 9	122	43.501
9 - 12	107	44.743
12 - 15	103	45.266
15 - 18	97	45.918
18 - 21	97	46.336
21 - 24	95	46.677
24 - 27	76	46.855
27 - 30	94	47.248
30 - 33	84	47.548
33 - 36	93	47.798
36 - 39	107	48.227
39 - 42	78	48.105
42 - 45	71	48.907
45 - 48	97	48.860
48 - 51	80	48.688
51 - 54	90	49.087
54 - 57	62	49.051
57 - 60	65	49.336
60 - 63	137	49.399

LENCE (CM) BY AGE AND SEX
CHILD GROWTH SURVEY - AMMAN

MIN.	RANGE MAX.	VAL.	S.D	C.V.	S.E.
M A L E S					
33.700	47.300	13.600	2.242	5.830	0.249
35.300	51.500	16.200	2.504	6.036	0.273
40.000	49.000	9.000	1.601	3.682	0.145
39.000	49.000	10.000	1.710	3.822	0.165
40.000	49.800	9.800	1.737	3.838	0.171
42.200	49.300	7.099	1.476	3.215	0.149
41.200	50.500	9.299	1.484	3.204	0.150
42.000	50.200	8.200	1.594	3.402	0.163
41.000	50.500	9.500	1.465	3.127	0.168
42.600	50.500	7.699	1.431	3.030	0.147
41.800	50.300	8.500	1.365	2.914	0.151
42.200	52.000	9.799	1.731	3.622	0.179
44.500	51.800	7.300	1.278	2.650	0.123
41.600	52.000	11.000	1.791	3.723	0.202
45.500	51.500	6.000	1.241	2.537	0.147
44.500	51.400	6.900	1.284	2.628	0.130
46.000	51.599	5.599	1.270	2.608	0.142
45.599	52.000	6.400	1.243	2.532	0.131
46.500	52.000	5.500	1.404	2.863	0.178
45.599	52.000	6.400	1.337	2.711	0.165
41.000	52.699	11.699	1.683	3.407	0.143

CHILDREN'S HEAD CIRCUM

AGE (MONTHS)
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NUMBER                      M E A N

| AGE (MONTHS) | NUMBER | M E A N |
|--------------|--------|---------|
| 0 - 3        | 87     | 37.326  |
| 3 - 6        | 95     | 40.505  |
| 6 - 9        | 67     | 42.054  |
| 9 - 12       | 91     | 43.183  |
| 12 - 15      | 96     | 44.006  |
| 15 - 18      | 101    | 44.780  |
| 18 - 21      | 71     | 44.990  |
| 21 - 24      | 63     | 45.536  |
| 24 - 27      | 114    | 46.144  |
| 27 - 30      | 69     | 46.515  |
| 30 - 33      | 91     | 46.564  |
| 33 - 36      | 82     | 46.876  |
| 36 - 39      | 95     | 47.146  |
| 39 - 42      | 72     | 47.322  |
| 42 - 45      | 73     | 47.521  |
| 45 - 48      | 92     | 47.609  |
| 48 - 51      | 85     | 47.645  |
| 51 - 54      | 58     | 47.734  |
| 54 - 57      | 40     | 48.432  |
| 57 - 60      | 67     | 48.477  |
| 60 - 63      | 158    | 48.902  |

ERENCE (CM) BY AGE AND SEX  
 CHILD GROWTH SURVEY - AMMAN

| MIN.          | RANGE<br>MAX. | VAL.   | S.D   | C.V.  | S.E.  |
|---------------|---------------|--------|-------|-------|-------|
| F E M A L E S |               |        |       |       |       |
| 34.000        | 44.500        | 10.500 | 1.908 | 5.113 | 0.204 |
| 36.099        | 49.099        | 13.000 | 2.303 | 5.687 | 0.236 |
| 37.700        | 46.099        | 8.399  | 1.650 | 3.925 | 0.176 |
| 36.599        | 47.500        | 10.900 | 1.601 | 3.708 | 0.167 |
| 39.500        | 48.800        | 9.300  | 1.628 | 3.700 | 0.166 |
| 40.500        | 52.000        | 11.500 | 1.745 | 3.896 | 0.173 |
| 41.500        | 49.500        | 8.000  | 1.450 | 3.224 | 0.172 |
| 41.500        | 48.800        | 7.300  | 1.513 | 3.324 | 0.166 |
| 41.000        | 49.599        | 8.600  | 1.573 | 3.409 | 0.147 |
| 42.400        | 52.000        | 9.600  | 1.737 | 3.735 | 0.209 |
| 43.000        | 50.000        | 7.000  | 1.336 | 2.870 | 0.140 |
| 42.800        | 52.000        | 9.199  | 1.635 | 3.486 | 0.180 |
| 40.800        | 51.000        | 10.199 | 1.541 | 3.269 | 0.158 |
| 43.800        | 49.900        | 6.099  | 1.234 | 2.609 | 0.145 |
| 44.400        | 51.000        | 6.599  | 1.437 | 3.024 | 0.168 |
| 40.400        | 51.200        | 10.800 | 1.511 | 3.175 | 0.157 |
| 41.500        | 51.699        | 10.199 | 2.015 | 4.230 | 0.218 |
| 44.500        | 51.500        | 7.000  | 1.527 | 3.200 | 0.200 |
| 45.000        | 52.000        | 7.000  | 1.504 | 3.107 | 0.237 |
| 46.000        | 51.000        | 5.000  | 1.245 | 2.569 | 0.152 |
| 41.599        | 52.000        | 10.400 | 1.330 | 2.743 | 0.105 |

24  
 CHILDREN'S HEAD CIRCUMFERENCE (CM) BY AGE AND SEX  
 CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>***** | NUMBER | M E A N | R A N G E |        |        | S. D. | C. V. | S. E. |
|-----------------------|--------|---------|-----------|--------|--------|-------|-------|-------|
|                       |        |         | MIN.      | MAX.   | VAL.   |       |       |       |
| F E M A L E S         |        |         |           |        |        |       |       |       |
| 0 - 3                 | 87     | 37.326  | 34.000    | 44.500 | 10.500 | 1.908 | 5.113 | 0.204 |
| 3 - 6                 | 95     | 40.505  | 36.099    | 49.099 | 13.000 | 2.363 | 5.687 | 0.236 |
| 6 - 9                 | 87     | 42.054  | 37.700    | 46.099 | 8.399  | 1.650 | 3.925 | 0.176 |
| 9 - 12                | 91     | 43.183  | 36.599    | 47.500 | 10.900 | 1.601 | 3.708 | 0.167 |
| 12 - 15               | 96     | 44.006  | 39.500    | 48.800 | 9.300  | 1.628 | 3.700 | 0.166 |
| 15 - 18               | 101    | 44.780  | 40.500    | 52.000 | 11.500 | 1.745 | 3.896 | 0.173 |
| 18 - 21               | 71     | 44.390  | 41.500    | 49.500 | 8.000  | 1.450 | 3.224 | 0.172 |
| 21 - 24               | 63     | 45.536  | 41.500    | 48.800 | 7.300  | 1.513 | 3.324 | 0.166 |
| 24 - 27               | 114    | 46.144  | 41.000    | 49.599 | 8.600  | 1.573 | 3.409 | 0.147 |
| 27 - 30               | 69     | 46.315  | 42.400    | 52.000 | 9.600  | 1.737 | 3.735 | 0.209 |
| 30 - 33               | 91     | 46.564  | 43.000    | 50.000 | 7.000  | 1.336 | 2.870 | 0.140 |
| 33 - 36               | 82     | 46.876  | 42.800    | 52.000 | 9.199  | 1.635 | 3.486 | 0.180 |
| 36 - 39               | 95     | 47.146  | 40.800    | 51.000 | 10.199 | 1.541 | 3.269 | 0.158 |
| 39 - 42               | 72     | 47.322  | 43.800    | 49.900 | 6.099  | 1.234 | 2.609 | 0.145 |
| 42 - 45               | 73     | 47.521  | 44.400    | 51.000 | 6.599  | 1.437 | 3.024 | 0.168 |
| 45 - 48               | 92     | 47.609  | 40.400    | 51.200 | 10.800 | 1.511 | 3.175 | 0.157 |
| 48 - 51               | 85     | 47.695  | 41.500    | 51.699 | 10.199 | 2.015 | 4.230 | 0.218 |
| 51 - 54               | 58     | 47.734  | 44.500    | 51.500 | 7.000  | 1.527 | 3.200 | 0.200 |
| 54 - 57               | 40     | 48.432  | 45.000    | 52.000 | 7.000  | 1.504 | 3.107 | 0.237 |
| 57 - 60               | 67     | 48.477  | 46.000    | 51.000 | 5.000  | 1.245 | 2.569 | 0.152 |
| 60 - 63               | 158    | 48.502  | 41.599    | 52.000 | 10.400 | 1.330 | 2.743 | 0.105 |

## CHILDREN'S HEAD CIRCUMFERENCE (CM) BY AGE (SEX COMBINED)

## CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | MEAN   | RANGE  | S.D.  | C.V.  | S.E.  |
|--------------|--------|--------|--------|-------|-------|-------|
| 0 - 3        | 168    | 37.869 | 13.600 | 2.145 | 5.665 | 0.165 |
| 3 - 6        | 179    | 40.972 | 16.200 | 2.444 | 5.966 | 0.182 |
| 6 - 9        | 209    | 42.899 | 11.299 | 1.769 | 4.124 | 0.122 |
| 9 - 12       | 198    | 44.026 | 12.400 | 1.831 | 4.159 | 0.130 |
| 12 - 15      | 199    | 44.658 | 10.300 | 1.795 | 4.021 | 0.127 |
| 15 - 18      | 198    | 45.337 | 11.500 | 1.712 | 3.777 | 0.121 |
| 18 - 21      | 168    | 45.767 | 9.299  | 1.610 | 3.519 | 0.124 |
| 21 - 24      | 178    | 46.252 | 8.700  | 1.691 | 3.658 | 0.126 |
| 24 - 27      | 190    | 46.428 | 9.500  | 1.566 | 3.373 | 0.113 |
| 27 - 30      | 163    | 46.938 | 9.600  | 1.604 | 3.418 | 0.125 |
| 30 - 33      | 175    | 47.037 | 8.500  | 1.443 | 3.068 | 0.109 |
| 33 - 36      | 175    | 47.366 | 9.799  | 1.744 | 3.682 | 0.131 |
| 36 - 39      | 202    | 47.719 | 11.000 | 1.505 | 3.154 | 0.105 |
| 39 - 42      | 150    | 47.729 | 11.000 | 1.593 | 3.338 | 0.130 |
| 42 - 45      | 144    | 48.204 | 7.099  | 1.508 | 3.130 | 0.125 |
| 45 - 48      | 189    | 48.251 | 11.000 | 1.530 | 3.171 | 0.111 |
| 48 - 51      | 165    | 48.151 | 10.199 | 1.769 | 3.674 | 0.137 |
| 51 - 54      | 148    | 48.557 | 7.500  | 1.509 | 3.109 | 0.124 |
| 54 - 57      | 102    | 48.808 | 7.000  | 1.468 | 3.009 | 0.145 |
| 57 - 60      | 132    | 48.900 | 6.400  | 1.357 | 2.775 | 0.118 |
| 60 - 63      | 295    | 48.918 | 11.699 | 1.567 | 3.204 | 0.091 |



MEAN HEAD CIRCUMFERENCE INCREMENT (CM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE GROUP<br>(MONTH) | MEAN VALUES |         |
|----------------------|-------------|---------|
|                      | MALES       | FEMALES |
| 0-3                  | 38.453      | 37.326  |
| 3-6                  | 3.046       | 3.178   |
| 6-9                  | 2.001       | 1.548   |
| 9-12                 | 1.242       | 1.129   |
| 12-15                | 0.523       | 0.822   |
| 15-18                | 0.651       | 0.773   |
| 18-21                | 0.417       | 0.209   |
| 21-24                | 0.541       | 0.546   |
| 24-27                | -0.022      | 0.608   |
| 27-30                | 0.393       | 0.371   |
| 30-33                | 0.299       | 0.048   |
| 33-36                | 0.250       | 0.311   |
| 36-39                | 0.429       | 0.269   |
| 39-42                | -0.122      | 0.175   |
| 42-45                | 0.801       | 0.199   |
| 45-48                | -0.046      | 0.087   |
| 48-51                | -0.172      | 0.036   |
| 51-54                | 0.399       | 0.088   |
| 54-57                | -0.036      | 0.698   |
| 57-60                | 0.285       | 0.045   |
| 60-63                | 0.062       | 0.024   |

CHILDREN'S ARM CIRCUMFERENCE (CM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M E A N | R A N G E     |        |        | S.D.  | C.V.   | S.E.  |
|--------------|--------|---------|---------------|--------|--------|-------|--------|-------|
|              |        |         | MIN.          | MAX.   | VAL.   |       |        |       |
|              |        |         | F E M A L E S |        |        |       |        |       |
| 0 - 3        | 87     | 11.303  | 8.000         | 17.400 | 9.399  | 1.413 | 12.501 | 0.151 |
| 3 - 6        | 95     | 12.756  | 10.200        | 17.000 | 6.799  | 1.244 | 9.759  | 0.127 |
| 6 - 9        | 87     | 13.166  | 10.500        | 15.500 | 5.000  | 1.135 | 8.620  | 0.121 |
| 9 - 12       | 89     | 13.660  | 11.500        | 16.500 | 4.999  | 1.123 | 8.222  | 0.119 |
| 12 - 15      | 96     | 13.521  | 8.800         | 17.000 | 8.199  | 1.338 | 9.897  | 0.136 |
| 15 - 18      | 101    | 13.495  | 9.000         | 16.000 | 7.000  | 1.185 | 8.784  | 0.117 |
| 18 - 21      | 71     | 13.818  | 11.200        | 16.299 | 5.099  | 1.154 | 8.357  | 0.137 |
| 21 - 24      | 83     | 14.055  | 12.000        | 17.000 | 4.999  | 1.206 | 8.580  | 0.132 |
| 24 - 27      | 114    | 14.372  | 11.000        | 18.400 | 7.400  | 1.252 | 8.716  | 0.117 |
| 27 - 30      | 68     | 14.569  | 10.000        | 18.000 | 7.999  | 1.441 | 9.890  | 0.174 |
| 30 - 33      | 92     | 14.984  | 12.700        | 19.000 | 6.299  | 0.998 | 6.661  | 0.104 |
| 33 - 36      | 82     | 14.854  | 9.000         | 19.000 | 10.000 | 1.491 | 9.504  | 0.155 |
| 36 - 39      | 94     | 15.158  | 13.000        | 19.500 | 6.499  | 1.259 | 8.310  | 0.129 |
| 39 - 42      | 71     | 15.160  | 12.399        | 17.500 | 5.099  | 1.138 | 7.509  | 0.135 |
| 42 - 45      | 72     | 15.373  | 13.000        | 18.000 | 4.999  | 1.186 | 7.720  | 0.139 |
| 45 - 48      | 93     | 15.283  | 12.500        | 18.500 | 5.999  | 1.134 | 7.421  | 0.117 |
| 48 - 51      | 85     | 15.482  | 12.500        | 18.500 | 5.999  | 1.183 | 7.646  | 0.128 |
| 51 - 54      | 58     | 15.348  | 11.000        | 20.000 | 9.000  | 1.345 | 8.763  | 0.176 |
| 54 - 57      | 40     | 15.159  | 12.700        | 18.000 | 5.299  | 1.088 | 7.177  | 0.172 |
| 57 - 60      | 67     | 15.599  | 13.000        | 19.200 | 6.199  | 1.158 | 7.425  | 0.141 |
| 60 - 63      | 158    | 15.548  | 10.500        | 19.000 | 8.500  | 1.266 | 8.142  | 0.100 |

CHILDREN'S ARM CIRCUMFERENCE (CM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M E A N | R A N G E |        |       | S.D.  | C.V.   | S.E.  |
|--------------|--------|---------|-----------|--------|-------|-------|--------|-------|
|              |        |         | MIN.      | MAX.   | VAL.  |       |        |       |
| M A L E S    |        |         |           |        |       |       |        |       |
| 0 - 3        | 80     | 11.951  | 8.500     | 15.500 | 7.000 | 1.356 | 11.346 | 0.151 |
| 3 - 6        | 84     | 12.760  | 9.399     | 15.500 | 6.100 | 1.456 | 11.412 | 0.158 |
| 6 - 9        | 122    | 13.682  | 9.500     | 16.700 | 7.199 | 1.367 | 9.993  | 0.123 |
| 9 - 12       | 107    | 13.918  | 10.500    | 17.000 | 6.499 | 1.221 | 8.774  | 0.118 |
| 12 - 15      | 103    | 14.099  | 11.399    | 18.500 | 7.099 | 1.369 | 9.284  | 0.128 |
| 15 - 18      | 96     | 13.943  | 10.500    | 17.500 | 6.999 | 1.263 | 9.064  | 0.128 |
| 18 - 21      | 97     | 14.362  | 11.500    | 16.600 | 5.100 | 1.139 | 7.933  | 0.115 |
| 21 - 24      | 95     | 14.335  | 11.200    | 17.500 | 6.299 | 1.025 | 7.151  | 0.105 |
| 24 - 27      | 76     | 14.546  | 12.000    | 17.000 | 4.999 | 0.977 | 6.719  | 0.112 |
| 27 - 30      | 94     | 14.684  | 12.000    | 17.500 | 5.499 | 1.168 | 7.960  | 0.120 |
| 30 - 33      | 84     | 14.796  | 11.600    | 17.200 | 5.599 | 1.101 | 7.441  | 0.120 |
| 33 - 36      | 93     | 14.992  | 12.399    | 18.000 | 5.599 | 1.069 | 7.131  | 0.110 |
| 36 - 39      | 107    | 15.078  | 11.800    | 18.000 | 6.199 | 1.114 | 7.418  | 0.107 |
| 39 - 42      | 76     | 15.156  | 13.200    | 19.000 | 5.799 | 1.126 | 7.432  | 0.129 |
| 42 - 45      | 71     | 15.425  | 13.000    | 19.000 | 5.999 | 1.229 | 7.971  | 0.145 |
| 45 - 48      | 97     | 15.389  | 12.300    | 18.100 | 5.800 | 1.010 | 6.563  | 0.102 |
| 48 - 51      | 80     | 15.156  | 13.200    | 18.000 | 4.799 | 1.050 | 6.931  | 0.117 |
| 51 - 54      | 90     | 15.245  | 10.000    | 18.500 | 8.500 | 1.193 | 7.676  | 0.125 |
| 54 - 57      | 61     | 15.419  | 13.000    | 20.000 | 6.999 | 1.306 | 8.470  | 0.167 |
| 57 - 60      | 65     | 15.564  | 13.700    | 18.000 | 4.299 | 1.011 | 6.501  | 0.125 |
| 60 - 63      | 136    | 15.491  | 12.200    | 19.000 | 6.799 | 1.163 | 7.515  | 0.099 |

## CHILDREN'S ARM CIRCUMFERENCE (CM) BY AGE (SEX COMBINED)

## CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | MEAN   | RANGE  | S.D.  | C.V.   | S.E.  |
|--------------|--------|--------|--------|-------|--------|-------|
| 0 - 3        | 167    | 11.613 | 9.399  | 1.419 | 12.222 | 0.109 |
| 3 - 6        | 179    | 12.758 | 7.599  | 1.344 | 10.537 | 0.100 |
| 6 - 9        | 209    | 13.467 | 7.199  | 1.298 | 9.639  | 0.089 |
| 9 - 12       | 196    | 13.801 | 6.499  | 1.181 | 8.563  | 0.084 |
| 12 - 15      | 199    | 13.821 | 9.699  | 1.351 | 9.777  | 0.095 |
| 15 - 18      | 197    | 13.713 | 8.500  | 1.241 | 9.054  | 0.088 |
| 18 - 21      | 168    | 14.132 | 5.400  | 1.173 | 8.306  | 0.090 |
| 21 - 24      | 178    | 14.205 | 6.299  | 1.118 | 7.875  | 0.083 |
| 24 - 27      | 190    | 14.442 | 7.400  | 1.150 | 7.969  | 0.083 |
| 27 - 30      | 162    | 14.635 | 7.999  | 1.287 | 8.794  | 0.101 |
| 30 - 33      | 176    | 14.894 | 7.399  | 1.049 | 7.047  | 0.079 |
| 33 - 36      | 175    | 14.927 | 10.000 | 1.239 | 8.305  | 0.093 |
| 36 - 39      | 201    | 15.089 | 7.699  | 1.183 | 7.843  | 0.083 |
| 39 - 42      | 147    | 15.158 | 6.599  | 1.128 | 7.443  | 0.093 |
| 42 - 45      | 143    | 15.399 | 5.999  | 1.204 | 7.820  | 0.100 |
| 45 - 48      | 190    | 15.337 | 6.199  | 1.071 | 6.984  | 0.077 |
| 48 - 51      | 165    | 15.324 | 5.999  | 1.129 | 7.371  | 0.087 |
| 51 - 54      | 148    | 15.468 | 10.000 | 1.254 | 8.108  | 0.103 |
| 54 - 57      | 101    | 15.316 | 7.299  | 1.225 | 8.000  | 0.121 |
| 57 - 60      | 132    | 15.582 | 6.199  | 1.084 | 6.961  | 0.094 |
| 60 - 63      | 294    | 15.517 | 8.500  | 1.218 | 7.849  | 0.071 |

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MEAN ARM CIRCUMFERENCE (CM) INCREMENT (CM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE GROUP<br>(MONTH) | MEAN VALUES |         |
|----------------------|-------------|---------|
|                      | MALES       | FEMALES |
| 0-3                  | 11.751      | 11.303  |
| 3-6                  | 0.809       | 1.453   |
| 6-9                  | 0.922       | 0.409   |
| 9-12                 | 0.235       | 0.494   |
| 12-15                | 0.181       | -0.138  |
| 15-18                | -0.156      | -0.026  |
| 18-21                | 0.419       | 0.323   |
| 21-24                | -0.027      | 0.237   |
| 24-27                | 0.210       | 0.317   |
| 27-30                | 0.137       | 0.196   |
| 30-33                | 0.112       | 0.415   |
| 33-36                | 0.196       | -0.129  |
| 36-39                | 0.035       | 0.303   |
| 39-42                | 0.128       | 0.002   |
| 42-45                | 0.268       | 0.213   |
| 45-48                | -0.035      | -0.089  |
| 48-51                | -0.233      | 0.198   |
| 51-54                | 0.389       | -0.134  |
| 54-57                | -0.125      | -0.188  |
| 57-60                | 0.144       | 0.439   |
| 60-63                | -0.083      | -0.051  |

MEAN THIGHS SKINFOLD THICKNESS (MM) BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

| NUMBER | M E A N |      | R A N G E |      | S.D. | C.V. | S.E. |
|--------|---------|------|-----------|------|------|------|------|
|        | MIN.    | MAX. | MIN.      | MAX. |      |      |      |

M A L E S

| AGE (MONTHS) | NUMBER | M E A N | R A N G E      | S.D.   | C.V.  | S.E.  |
|--------------|--------|---------|----------------|--------|-------|-------|
| 0 - 1        | 81     | 6.024   | 2.800 - 11.500 | 8.699  | 1.621 | 0.180 |
| 3 - 6        | 84     | 6.846   | 3.000 - 11.500 | 8.500  | 1.887 | 0.205 |
| 6 - 9        | 121    | 7.361   | 2.800 - 13.200 | 10.399 | 2.032 | 0.184 |
| 9 - 12       | 107    | 6.947   | 4.199 - 13.500 | 9.300  | 1.638 | 0.158 |
| 12 - 15      | 100    | 6.665   | 3.400 - 11.200 | 7.800  | 1.497 | 0.149 |
| 15 - 18      | 97     | 6.524   | 3.400 - 12.800 | 9.400  | 1.771 | 0.173 |
| 18 - 21      | 94     | 7.017   | 3.200 - 11.200 | 8.000  | 1.615 | 0.164 |
| 21 - 24      | 94     | 6.895   | 4.199 - 10.000 | 5.800  | 1.583 | 0.142 |
| 24 - 27      | 76     | 6.688   | 2.800 - 12.200 | 9.399  | 1.626 | 0.186 |
| 27 - 30      | 93     | 7.093   | 4.199 - 12.800 | 8.600  | 1.739 | 0.180 |
| 30 - 33      | 83     | 7.383   | 3.400 - 13.000 | 9.600  | 1.957 | 0.214 |
| 33 - 36      | 92     | 7.158   | 4.400 - 12.500 | 8.100  | 1.744 | 0.181 |
| 36 - 39      | 106    | 7.177   | 4.199 - 13.500 | 9.300  | 1.699 | 0.165 |
| 39 - 42      | 77     | 7.161   | 4.400 - 12.600 | 8.200  | 1.699 | 0.193 |
| 42 - 45      | 71     | 6.822   | 3.599 - 12.800 | 9.200  | 1.656 | 0.196 |
| 45 - 48      | 96     | 6.709   | 4.199 - 12.899 | 8.700  | 1.550 | 0.158 |
| 48 - 51      | 80     | 6.612   | 4.000 - 11.800 | 7.800  | 1.590 | 0.177 |
| 51 - 54      | 90     | 6.919   | 3.599 - 16.000 | 12.399 | 1.842 | 0.194 |
| 54 - 57      | 61     | 6.222   | 3.000 - 13.399 | 10.399 | 1.750 | 0.224 |
| 57 - 60      | 65     | 6.301   | 4.199 - 10.000 | 5.800  | 1.347 | 0.167 |
| 60 - 63      | 137    | 6.666   | 2.800 - 14.500 | 11.699 | 1.617 | 0.138 |

MEAN TRICEPS SKINFOLD THICKNESS (MM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>----- | NUMBER | M E A N | R A N G E     |        |        | S.D.  | C.V.   | S.E.  |
|-----------------------|--------|---------|---------------|--------|--------|-------|--------|-------|
|                       |        |         | MIN.          | MAX.   | VAL.   |       |        |       |
|                       |        |         | F E M A L E S |        |        |       |        |       |
| 0 - 3                 | 85     | 5.447   | 2.400         | 10.200 | 7.800  | 1.692 | 31.076 | 0.183 |
| 3 - 6                 | 95     | 7.170   | 3.599         | 13.500 | 9.899  | 2.114 | 29.488 | 0.216 |
| 6 - 9                 | 86     | 6.840   | 2.400         | 12.399 | 10.000 | 1.697 | 24.816 | 0.183 |
| 9 - 12                | 91     | 6.758   | 4.000         | 12.200 | 8.200  | 1.637 | 24.236 | 0.171 |
| 12 - 15               | 94     | 6.498   | 3.599         | 12.200 | 8.600  | 1.546 | 23.794 | 0.159 |
| 15 - 18               | 101    | 6.623   | 3.000         | 12.000 | 9.000  | 1.600 | 24.167 | 0.159 |
| 18 - 21               | 71     | 6.719   | 4.199         | 12.500 | 8.300  | 1.547 | 23.034 | 0.183 |
| 21 - 24               | 83     | 6.821   | 3.599         | 11.700 | 8.100  | 1.744 | 25.573 | 0.191 |
| 24 - 27               | 115    | 7.153   | 4.000         | 13.200 | 9.200  | 1.827 | 25.550 | 0.170 |
| 27 - 30               | 64     | 7.240   | 3.400         | 11.500 | 8.100  | 1.743 | 24.078 | 0.209 |
| 30 - 33               | 92     | 7.566   | 4.199         | 13.500 | 9.300  | 1.894 | 25.044 | 0.197 |
| 33 - 36               | 82     | 7.679   | 2.400         | 12.500 | 10.100 | 1.971 | 25.670 | 0.217 |
| 36 - 39               | 95     | 7.384   | 2.599         | 12.800 | 10.200 | 1.785 | 24.173 | 0.183 |
| 39 - 42               | 72     | 7.130   | 4.400         | 11.000 | 6.599  | 1.473 | 20.657 | 0.173 |
| 42 - 45               | 73     | 7.304   | 3.800         | 13.000 | 9.199  | 1.903 | 26.066 | 0.222 |
| 45 - 48               | 92     | 7.223   | 3.800         | 14.500 | 10.699 | 1.896 | 26.249 | 0.197 |
| 48 - 51               | 85     | 7.130   | 3.400         | 12.200 | 8.399  | 1.712 | 24.018 | 0.185 |
| 51 - 54               | 58     | 6.586   | 3.400         | 12.399 | 9.000  | 1.686 | 25.613 | 0.221 |
| 54 - 57               | 40     | 6.357   | 4.000         | 10.399 | 6.399  | 1.414 | 22.233 | 0.223 |
| 57 - 60               | 66     | 6.883   | 4.199         | 12.600 | 8.400  | 1.689 | 24.537 | 0.207 |
| 60 - 63               | 157    | 6.632   | 3.600         | 13.000 | 9.199  | 1.572 | 23.705 | 0.125 |

CHILDREN'S TRICEPS SKINFOLD THICKNESS (MM) BY AGE (SEX COMBINED)  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | MEAN  | RANGE  | S.D.  | C.V.   | S.E.  |
|--------------|--------|-------|--------|-------|--------|-------|
| 0 - 3        | 165    | 5.728 | 9.100  | 1.678 | 29.300 | 0.130 |
| 3 - 6        | 179    | 7.018 | 10.500 | 2.012 | 28.669 | 0.150 |
| 6 - 9        | 207    | 7.144 | 10.800 | 1.913 | 26.780 | 0.132 |
| 9 - 12       | 198    | 6.860 | 9.500  | 1.636 | 23.858 | 0.116 |
| 12 - 15      | 194    | 6.585 | 8.800  | 1.519 | 23.075 | 0.109 |
| 15 - 18      | 198    | 6.575 | 9.800  | 1.682 | 25.592 | 0.119 |
| 18 - 21      | 167    | 6.891 | 9.299  | 1.589 | 23.063 | 0.122 |
| 21 - 24      | 177    | 6.861 | 8.100  | 1.559 | 22.723 | 0.117 |
| 24 - 27      | 191    | 6.968 | 10.399 | 1.761 | 25.270 | 0.127 |
| 27 - 30      | 162    | 7.156 | 9.400  | 1.737 | 24.276 | 0.136 |
| 30 - 33      | 175    | 7.479 | 10.100 | 1.921 | 25.689 | 0.145 |
| 33 - 36      | 174    | 7.404 | 10.100 | 1.867 | 25.227 | 0.141 |
| 36 - 39      | 201    | 7.275 | 10.899 | 1.739 | 23.906 | 0.122 |
| 39 - 42      | 149    | 7.146 | 8.200  | 1.589 | 22.235 | 0.130 |
| 42 - 45      | 144    | 7.066 | 9.399  | 1.796 | 25.422 | 0.149 |
| 45 - 48      | 185    | 6.961 | 10.699 | 1.742 | 25.038 | 0.127 |
| 48 - 51      | 165    | 6.879 | 8.399  | 1.669 | 24.270 | 0.129 |
| 51 - 54      | 148    | 6.789 | 12.600 | 1.784 | 26.289 | 0.146 |
| 54 - 57      | 101    | 6.276 | 10.399 | 1.619 | 25.806 | 0.161 |
| 57 - 60      | 131    | 6.594 | 8.400  | 1.551 | 23.519 | 0.135 |
| 60 - 63      | 295    | 6.365 | 11.699 | 1.616 | 25.385 | 0.094 |



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 MEAN TRICEPS SKINFOLD THICKNESS INCREMENT (MM) BY AGE AND SEX  
 CHILD GROWTH SURVEY - AMMAN

| AGE GROUP<br>(MONTH) | MEAN VALUES |         |
|----------------------|-------------|---------|
|                      | MALES       | FEMALES |
| 0-3                  | 6.024       | 5.447   |
| 3-6                  | 0.821       | 1.723   |
| 6-9                  | 0.514       | -0.329  |
| 9-12                 | -0.413      | -0.082  |
| 12-15                | -0.281      | -0.259  |
| 15-18                | -0.141      | 0.124   |
| 18-21                | 0.492       | 0.095   |
| 21-24                | -0.121      | 0.101   |
| 24-27                | -0.207      | 0.332   |
| 27-30                | 0.405       | 0.086   |
| 30-33                | 0.289       | 0.325   |
| 33-36                | -0.224      | 0.112   |
| 36-39                | 0.018       | -0.295  |
| 39-42                | -0.016      | -0.253  |
| 42-45                | -0.338      | 0.173   |
| 45-48                | -0.113      | -0.080  |
| 48-51                | -0.096      | -0.093  |
| 51-54                | 0.307       | -0.544  |
| 54-57                | -0.697      | -0.228  |
| 57-60                | 0.078       | 0.525   |
| 60-63                | -0.240      | -0.250  |

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MEAN BICEPS SKINFOLD THICKNESS (MM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M E A N | R A N G E |        | S. D. | C. V.  | S. E. |
|--------------|--------|---------|-----------|--------|-------|--------|-------|
|              |        |         | MIN.      | MAX.   |       |        |       |
| 0 - 3        | 81     | 4.330   | 2.200     | 7.000  | 0.970 | 22.409 | 0.107 |
| 3 - 6        | 84     | 4.291   | 2.200     | 7.399  | 1.083 | 25.239 | 0.118 |
| 6 - 9        | 121    | 4.621   | 2.400     | 10.000 | 1.360 | 29.444 | 0.123 |
| 9 - 12       | 107    | 4.042   | 2.000     | 6.400  | 0.775 | 19.181 | 0.074 |
| 12 - 15      | 100    | 4.171   | 2.400     | 6.800  | 0.922 | 22.100 | 0.092 |
| 15 - 18      | 97     | 4.315   | 2.400     | 9.600  | 1.250 | 28.970 | 0.126 |
| 18 - 21      | 98     | 4.285   | 2.000     | 7.199  | 1.093 | 25.519 | 0.111 |
| 21 - 24      | 94     | 4.286   | 2.800     | 7.500  | 1.000 | 23.352 | 0.103 |
| 24 - 27      | 76     | 4.165   | 2.599     | 7.000  | 0.885 | 21.246 | 0.101 |
| 27 - 30      | 93     | 4.216   | 2.400     | 7.399  | 1.094 | 25.952 | 0.113 |
| 30 - 33      | 83     | 4.253   | 2.400     | 6.800  | 1.041 | 24.488 | 0.114 |
| 33 - 36      | 92     | 4.379   | 2.800     | 7.199  | 0.907 | 20.726 | 0.094 |
| 36 - 39      | 106    | 4.329   | 2.200     | 9.200  | 1.307 | 30.196 | 0.126 |
| 39 - 42      | 77     | 4.254   | 2.800     | 8.600  | 1.105 | 25.979 | 0.125 |
| 42 - 45      | 71     | 4.050   | 2.400     | 7.399  | 0.847 | 20.926 | 0.100 |
| 45 - 48      | 96     | 3.971   | 2.200     | 8.000  | 1.097 | 27.634 | 0.112 |
| 48 - 51      | 80     | 3.891   | 2.400     | 8.200  | 1.028 | 26.436 | 0.115 |
| 51 - 54      | 90     | 3.922   | 2.400     | 8.000  | 0.957 | 24.418 | 0.100 |
| 54 - 57      | 61     | 3.859   | 2.000     | 7.000  | 0.986 | 25.558 | 0.126 |
| 57 - 60      | 65     | 3.523   | 2.200     | 5.800  | 0.800 | 22.728 | 0.099 |
| 60 - 63      | 137    | 3.658   | 2.000     | 6.800  | 0.873 | 23.870 | 0.074 |

M A L E S

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 MEAN BICEPS SKINFOLD THICKNESS (MM) BY AGE AND SEX  
 CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>----- | NUMBER          | M E A N | R A N G E |        |               | S.D.  | C.V.   | S.E.  |
|-----------------------|-----------------|---------|-----------|--------|---------------|-------|--------|-------|
|                       |                 |         | MIN.      | MAX.   | VAL.          |       |        |       |
|                       |                 |         |           |        | F E M A L E S |       |        |       |
| 0 - 3                 | 85              | 3.872   | 2.000     | 7.500  | 5.500         | 1.095 | 28.280 | 0.118 |
| 3 - 6                 | 95              | 4.473   | 2.400     | 7.600  | 5.200         | 1.164 | 26.027 | 0.119 |
| 6 - 9                 | 87              | 4.267   | 2.000     | 8.800  | 6.800         | 1.202 | 26.058 | 0.128 |
| 9 - 12                | 91              | 4.425   | 2.800     | 10.200 | 7.399         | 1.253 | 26.335 | 0.131 |
| 12 - 15               | 94              | 4.104   | 2.000     | 7.800  | 5.800         | 0.942 | 22.962 | 0.097 |
| 15 - 18               | 101             | 4.049   | 2.200     | 6.199  | 3.999         | 0.907 | 22.409 | 0.090 |
| 18 - 21               | 71 <sup>3</sup> | 4.135   | 2.000     | 6.800  | 4.800         | 1.023 | 24.756 | 0.121 |
| 21 - 24               | 83              | 4.224   | 2.400     | 9.800  | 7.400         | 1.191 | 26.202 | 0.130 |
| 24 - 27               | 115             | 4.449   | 2.200     | 9.800  | 7.600         | 1.224 | 27.509 | 0.114 |
| 27 - 30               | 69              | 4.450   | 2.400     | 7.199  | 4.800         | 1.097 | 24.665 | 0.132 |
| 30 - 33               | 92              | 4.564   | 2.200     | 8.399  | 6.199         | 1.158 | 25.716 | 0.120 |
| 33 - 36               | 82              | 4.629   | 2.000     | 8.000  | 6.000         | 1.454 | 31.422 | 0.160 |
| 36 - 39               | 95              | 4.401   | 2.400     | 8.000  | 5.600         | 1.102 | 25.061 | 0.113 |
| 39 - 42               | 72              | 4.116   | 2.200     | 7.000  | 4.800         | 0.977 | 23.737 | 0.115 |
| 42 - 45               | 73              | 4.249   | 2.200     | 7.399  | 5.199         | 1.136 | 26.754 | 0.133 |
| 45 - 48               | 92              | 4.327   | 2.400     | 8.399  | 5.999         | 1.187 | 27.453 | 0.123 |
| 48 - 51               | 85              | 4.247   | 2.400     | 8.800  | 6.400         | 1.172 | 27.601 | 0.127 |
| 51 - 54               | 58              | 4.082   | 2.000     | 8.200  | 6.199         | 1.146 | 28.092 | 0.150 |
| 54 - 57               | 40              | 3.977   | 2.400     | 5.800  | 3.400         | 0.803 | 20.718 | 0.127 |
| 57 - 60               | 66              | 3.974   | 2.800     | 6.199  | 3.399         | 0.863 | 21.732 | 0.106 |
| 60 - 63               | 151             | 3.917   | 2.000     | 7.600  | 5.600         | 0.953 | 24.341 | 0.076 |

CHILDREN'S BICEPS SKINFOLD THICKNESS (MM) BY AGE (SEX COMBINED)  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | MEAN  | RANGE | S.D   | C.V    | S.E.  |
|--------------|--------|-------|-------|-------|--------|-------|
| 0 - 3        | 166    | 4.096 | 5.500 | 1.058 | 25.836 | 0.082 |
| 3 - 6        | 179    | 4.388 | 5.400 | 1.127 | 25.694 | 0.084 |
| 6 - 9        | 208    | 4.481 | 7.999 | 1.304 | 29.109 | 0.090 |
| 9 - 12       | 198    | 4.218 | 8.200 | 1.038 | 24.619 | 0.073 |
| 12 - 15      | 194    | 4.139 | 5.800 | 0.930 | 22.472 | 0.066 |
| 15 - 18      | 198    | 4.179 | 7.399 | 1.094 | 26.180 | 0.077 |
| 18 - 21      | 167    | 4.221 | 5.199 | 1.063 | 25.202 | 0.082 |
| 21 - 24      | 177    | 4.257 | 7.400 | 1.091 | 25.641 | 0.082 |
| 24 - 27      | 191    | 4.336 | 7.600 | 1.107 | 25.549 | 0.080 |
| 27 - 30      | 162    | 4.316 | 5.000 | 1.098 | 25.451 | 0.086 |
| 30 - 33      | 175    | 4.385 | 6.199 | 1.108 | 25.279 | 0.083 |
| 33 - 36      | 174    | 4.497 | 6.000 | 1.199 | 26.681 | 0.090 |
| 36 - 39      | 201    | 4.363 | 7.000 | 1.212 | 27.790 | 0.085 |
| 39 - 42      | 149    | 4.187 | 6.399 | 1.044 | 24.932 | 0.085 |
| 42 - 45      | 144    | 4.151 | 5.199 | 1.006 | 24.237 | 0.083 |
| 45 - 48      | 188    | 4.145 | 6.199 | 1.153 | 27.823 | 0.084 |
| 48 - 51      | 165    | 4.074 | 6.400 | 1.115 | 27.389 | 0.086 |
| 51 - 54      | 148    | 3.985 | 6.199 | 1.035 | 25.976 | 0.085 |
| 54 - 57      | 101    | 3.866 | 5.000 | 0.914 | 23.640 | 0.090 |
| 57 - 60      | 131    | 3.750 | 3.999 | 0.860 | 22.935 | 0.075 |
| 60 - 63      | 294    | 3.796 | 5.600 | 0.924 | 24.351 | 0.053 |

25 24  
 MENN BICEPS SKINFOLD THICKNESS INCREMENT (MM) BY AGE AND SEX  
 CHILD GROWTH SURVEY - AMMAN

| =====         |         |             |   |
|---------------|---------|-------------|---|
| = AGE GROUP = |         | MEAN VALUES |   |
| =====         |         |             |   |
| = (MONTH)     | = MALES | = FEMALES   | = |
| =====         |         |             |   |
| 0- 3          | 4.330   | 3.872       |   |
| 3- 6          | -0.039  | 0.600       |   |
| 6- 9          | 0.329   | -0.186      |   |
| 9-12          | -0.579  | 0.137       |   |
| 12-15         | 0.129   | -0.321      |   |
| 15-18         | 0.143   | -0.054      |   |
| 18-21         | -0.030  | 0.085       |   |
| 21-24         | 0.000   | 0.088       |   |
| 24-27         | -0.120  | 0.225       |   |
| 27-30         | 0.050   | 0.001       |   |
| 30-33         | 0.036   | 0.053       |   |
| 33-36         | 0.126   | 0.124       |   |
| 36-39         | -0.050  | -0.228      |   |
| 39-42         | -0.074  | -0.284      |   |
| 42-45         | -0.203  | 0.132       |   |
| 45-48         | -0.078  | 0.077       |   |
| 48-51         | -0.080  | -0.080      |   |
| 51-54         | 0.030   | -0.164      |   |
| 54-57         | -0.063  | -0.205      |   |
| 57-60         | -0.335  | 0.096       |   |
| 60-63         | 0.135   | -0.057      |   |

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 PLAIN SUPRAILIAC SKINFOLD THICKNESS (MM) BY AGE AND SEX  
 CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M E A N |       | R A N G E |       | S . D | C . V . | S . E . |
|--------------|--------|---------|-------|-----------|-------|-------|---------|---------|
|              |        | MIN.    | MAX.  | MIN.      | MAX.  |       |         |         |
| 0 - 3        | 81     | 5.470   | 2.400 | 9.800     | 7.400 | 1.489 | 27.228  | 0.165   |
| 3 - 6        | 84     | 5.363   | 2.400 | 9.200     | 6.800 | 1.426 | 26.596  | 0.155   |
| 6 - 9        | 120    | 5.864   | 2.800 | 11.000    | 8.199 | 1.559 | 26.599  | 0.142   |
| 9 - 12       | 107    | 5.287   | 3.000 | 9.000     | 5.999 | 1.201 | 22.723  | 0.116   |
| 12 - 15      | 100    | 5.099   | 3.200 | 9.200     | 6.000 | 1.229 | 24.035  | 0.122   |
| 15 - 18      | 97     | 4.802   | 3.000 | 8.200     | 5.199 | 1.136 | 23.661  | 0.115   |
| 18 - 21      | 96     | 5.135   | 3.000 | 8.200     | 5.199 | 1.149 | 22.384  | 0.117   |
| 21 - 24      | 94     | 5.162   | 3.599 | 9.000     | 5.399 | 1.044 | 20.229  | 0.107   |
| 24 - 27      | 76     | 4.761   | 3.200 | 7.800     | 4.600 | 0.973 | 20.441  | 0.111   |
| 27 - 30      | 93     | 5.035   | 2.800 | 12.000    | 9.199 | 1.300 | 25.818  | 0.134   |
| 30 - 33      | 83     | 4.981   | 2.400 | 10.399    | 7.999 | 1.418 | 28.482  | 0.155   |
| 33 - 36      | 92     | 5.071   | 3.200 | 8.000     | 4.800 | 1.043 | 20.578  | 0.108   |
| 36 - 39      | 106    | 4.965   | 3.000 | 10.200    | 7.199 | 1.455 | 29.318  | 0.141   |
| 39 - 42      | 77     | 4.919   | 3.000 | 9.000     | 5.999 | 1.310 | 26.632  | 0.149   |
| 42 - 45      | 71     | 4.807   | 2.400 | 9.399     | 6.999 | 1.248 | 25.981  | 0.148   |
| 45 - 48      | 96     | 4.482   | 2.400 | 7.800     | 5.400 | 1.107 | 24.712  | 0.113   |
| 48 - 51      | 80     | 4.404   | 2.800 | 9.800     | 7.000 | 1.088 | 24.699  | 0.121   |
| 51 - 54      | 90     | 4.558   | 2.599 | 10.500    | 7.899 | 1.222 | 26.820  | 0.128   |
| 54 - 57      | 61     | 4.293   | 2.599 | 8.399     | 5.799 | 1.089 | 25.364  | 0.139   |
| 57 - 60      | 65     | 4.106   | 2.800 | 6.400     | 3.600 | 0.744 | 18.132  | 0.092   |
| 60 - 63      | 137    | 4.205   | 2.400 | 7.300     | 4.900 | 0.901 | 21.126  | 0.076   |

M A L E S

MEAN SUPRACILIARY SPINFILUM THICKNESS (MM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)  | NUMBER | M E A N | R A N G E |        |        | S.D   | C.V.   | S.E.  |
|---------------|--------|---------|-----------|--------|--------|-------|--------|-------|
|               |        |         | MIN.      | MAX.   | VAL.   |       |        |       |
| F E M A L E S |        |         |           |        |        |       |        |       |
| 0 - 3         | 85     | 5.089   | 2.800     | 9.000  | 6.199  | 1.541 | 30.295 | 0.167 |
| 3 - 6         | 95     | 5.804   | 3.000     | 9.600  | 6.599  | 1.452 | 25.030 | 0.149 |
| 6 - 9         | 87     | 5.541   | 2.600     | 8.600  | 6.599  | 1.120 | 20.213 | 0.120 |
| 9 - 12        | 91     | 5.571   | 3.200     | 9.800  | 6.600  | 1.248 | 22.417 | 0.130 |
| 12 - 15       | 94     | 5.011   | 2.800     | 7.399  | 4.599  | 1.109 | 22.139 | 0.114 |
| 15 - 18       | 101    | 4.915   | 2.200     | 7.399  | 5.199  | 1.032 | 20.994 | 0.102 |
| 18 - 21       | 71     | 5.211   | 3.400     | 9.000  | 5.599  | 1.168 | 22.431 | 0.138 |
| 21 - 24       | 83     | 5.104   | 3.400     | 10.000 | 6.599  | 1.348 | 26.415 | 0.148 |
| 24 - 27       | 115    | 5.399   | 3.200     | 9.200  | 6.000  | 1.276 | 23.645 | 0.119 |
| 27 - 30       | 69     | 5.524   | 3.000     | 13.000 | 10.000 | 1.721 | 31.153 | 0.207 |
| 30 - 33       | 92     | 5.626   | 3.200     | 10.399 | 7.199  | 1.490 | 26.492 | 0.155 |
| 33 - 36       | 82     | 5.578   | 2.600     | 9.500  | 7.499  | 1.484 | 26.620 | 0.163 |
| 36 - 39       | 95     | 5.398   | 3.600     | 9.500  | 6.499  | 1.300 | 24.084 | 0.133 |
| 39 - 42       | 72     | 5.131   | 3.200     | 9.399  | 6.199  | 1.213 | 23.655 | 0.143 |
| 42 - 45       | 73     | 5.379   | 3.200     | 9.399  | 6.199  | 1.383 | 25.726 | 0.161 |
| 45 - 48       | 92     | 4.977   | 3.200     | 9.800  | 6.600  | 1.305 | 26.220 | 0.136 |
| 48 - 51       | 85     | 5.047   | 2.800     | 10.500 | 7.699  | 1.402 | 27.792 | 0.152 |
| 51 - 54       | 58     | 4.849   | 2.800     | 11.500 | 8.699  | 1.421 | 29.307 | 0.186 |
| 54 - 57       | 40     | 4.644   | 3.000     | 9.800  | 6.800  | 1.307 | 28.149 | 0.206 |
| 57 - 60       | 66     | 4.727   | 3.600     | 8.000  | 5.000  | 1.106 | 23.396 | 0.136 |
| 60 - 63       | 157    | 4.800   | 2.599     | 13.799 | 11.199 | 1.415 | 29.479 | 0.112 |

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CHILDREN'S SUPRAILIAC SKINFOLD THICKNESS (MM) BY AGE (SEX COMBINED)

CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | MEAN  | RANGE  | S.D.  | C.V.   | S.E.  |
|--------------|--------|-------|--------|-------|--------|-------|
| 0 - 3        | 166    | 5.275 | 7.400  | 1.523 | 28.888 | 0.118 |
| 3 - 6        | 179    | 5.597 | 7.199  | 1.453 | 25.964 | 0.108 |
| 6 - 9        | 207    | 5.728 | 9.000  | 1.398 | 24.406 | 0.097 |
| 9 - 12       | 198    | 5.418 | 6.800  | 1.228 | 22.676 | 0.087 |
| 12 - 15      | 194    | 5.057 | 6.399  | 1.168 | 23.110 | 0.083 |
| 15 - 18      | 198    | 4.860 | 6.000  | 1.083 | 22.285 | 0.076 |
| 18 - 21      | 167    | 5.167 | 5.999  | 1.154 | 22.349 | 0.089 |
| 21 - 24      | 177    | 5.135 | 6.599  | 1.193 | 23.239 | 0.089 |
| 24 - 27      | 191    | 5.145 | 6.000  | 1.204 | 23.399 | 0.087 |
| 27 - 30      | 162    | 5.243 | 10.199 | 1.508 | 28.768 | 0.118 |
| 30 - 33      | 175    | 5.320 | 7.999  | 1.488 | 27.970 | 0.112 |
| 33 - 36      | 174    | 5.310 | 7.499  | 1.292 | 24.332 | 0.097 |
| 36 - 39      | 201    | 5.170 | 7.199  | 1.397 | 27.039 | 0.098 |
| 39 - 42      | 149    | 5.022 | 6.399  | 1.264 | 25.185 | 0.103 |
| 42 - 45      | 144    | 5.097 | 6.999  | 1.345 | 26.396 | 0.112 |
| 45 - 48      | 188    | 4.724 | 7.400  | 1.230 | 26.041 | 0.089 |
| 48 - 51      | 165    | 4.735 | 7.699  | 1.296 | 27.382 | 0.100 |
| 51 - 54      | 148    | 4.672 | 8.899  | 1.307 | 27.975 | 0.107 |
| 54 - 57      | 101    | 4.432 | 7.200  | 1.186 | 26.771 | 0.118 |
| 57 - 60      | 131    | 4.419 | 5.199  | 0.990 | 22.421 | 0.086 |
| 60 - 63      | 294    | 4.551 | 11.399 | 1.230 | 27.041 | 0.071 |



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MEAN SUPRAILIAIC SKINFOLD THICKNESS INCREMENT (MM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE GROUP<br>(MONTH) | MEAN VALUES |         |
|----------------------|-------------|---------|
|                      | MALES       | FEMALES |
| 0-3                  | 5.470       | 5.089   |
| 3-6                  | -0.107      | 0.714   |
| 6-9                  | 0.501       | -0.262  |
| 9-12                 | -0.576      | 0.030   |
| 12-15                | -0.187      | -0.559  |
| 15-18                | -0.297      | -0.095  |
| 18-21                | 0.333       | 0.295   |
| 21-24                | 0.027       | -0.106  |
| 24-27                | -0.400      | 0.294   |
| 27-30                | 0.273       | 0.125   |
| 30-33                | -0.053      | 0.101   |
| 33-36                | 0.089       | -0.048  |
| 36-39                | -0.106      | -0.179  |
| 39-42                | -0.045      | -0.266  |
| 42-45                | -0.112      | 0.247   |
| 45-48                | -0.324      | -0.402  |
| 48-51                | -0.077      | 0.069   |
| 51-54                | 0.153       | -0.197  |
| 54-57                | -0.265      | -0.204  |
| 57-60                | -0.187      | 0.082   |
| 60-63                | 0.159       | 0.073   |

MEAN SUBSCAPULAR SKINFOLD THICKNESS (MM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M E A N | R A N G E |        |        | S.D.  | C.V.   | S.E.  |
|--------------|--------|---------|-----------|--------|--------|-------|--------|-------|
|              |        |         | MIN.      | MAX.   | VAL.   |       |        |       |
| M A L E S    |        |         |           |        |        |       |        |       |
| 0 - 3        | 81     | 6.182   | 2.400     | 14.000 | 11.600 | 2.017 | 32.624 | 0.224 |
| 3 - 6        | 84     | 7.611   | 2.000     | 15.000 | 13.000 | 2.621 | 37.385 | 0.286 |
| 6 - 9        | 120    | 7.029   | 2.800     | 14.600 | 11.799 | 2.346 | 33.379 | 0.214 |
| 9 - 12       | 107    | 6.457   | 2.500     | 13.399 | 10.899 | 2.198 | 34.044 | 0.212 |
| 12 - 15      | 100    | 5.900   | 3.000     | 14.799 | 11.799 | 1.805 | 31.132 | 0.180 |
| 15 - 18      | 97     | 5.420   | 2.600     | 11.500 | 8.699  | 1.805 | 33.304 | 0.183 |
| 18 - 21      | 96     | 5.818   | 2.400     | 16.000 | 13.600 | 2.192 | 37.678 | 0.223 |
| 21 - 24      | 94     | 5.535   | 3.000     | 11.500 | 8.500  | 1.736 | 31.365 | 0.179 |
| 24 - 27      | 76     | 5.823   | 2.800     | 14.399 | 11.599 | 2.242 | 38.505 | 0.257 |
| 27 - 30      | 93     | 5.427   | 2.800     | 11.800 | 9.000  | 1.773 | 32.666 | 0.183 |
| 30 - 33      | 83     | 5.483   | 2.400     | 15.500 | 13.100 | 2.122 | 38.705 | 0.232 |
| 33 - 36      | 92     | 5.534   | 2.400     | 11.800 | 9.400  | 1.747 | 31.569 | 0.182 |
| 36 - 39      | 106    | 5.600   | 2.000     | 12.399 | 10.399 | 2.186 | 37.045 | 0.212 |
| 39 - 42      | 77     | 5.602   | 3.200     | 10.500 | 7.299  | 1.656 | 33.127 | 0.211 |
| 42 - 45      | 71     | 5.174   | 2.800     | 11.000 | 8.199  | 1.630 | 31.505 | 0.193 |
| 45 - 48      | 96     | 5.110   | 2.200     | 10.500 | 8.299  | 1.982 | 38.797 | 0.202 |
| 48 - 51      | 80     | 4.663   | 2.599     | 9.200  | 6.600  | 1.370 | 29.386 | 0.153 |
| 51 - 54      | 90     | 4.732   | 2.400     | 11.500 | 9.100  | 1.455 | 30.756 | 0.153 |
| 54 - 57      | 61     | 4.506   | 2.200     | 9.000  | 6.799  | 1.362 | 30.224 | 0.174 |
| 57 - 60      | 65     | 4.504   | 2.200     | 9.800  | 7.600  | 1.182 | 25.899 | 0.146 |
| 60 - 63      | 137    | 4.433   | 2.400     | 10.000 | 7.599  | 1.328 | 29.964 | 0.113 |

MEAN SUBSCAPULAR SKINFOLD THICKNESS (MM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (CENTS)<br>***** | NUMBER | M E A N | R A N G E |        |        | S.D.  | C.V.   | S.E.  |
|----------------------|--------|---------|-----------|--------|--------|-------|--------|-------|
|                      |        |         | MIN.      | MAX.   | VAL.   |       |        |       |
| F E M A L E S        |        |         |           |        |        |       |        |       |
| 0 - 3                | 85     | 6.378   | 2.400     | 14.799 | 12.399 | 2.662 | 41.736 | 0.288 |
| 3 - 6                | 95     | 6.172   | 3.200     | 17.000 | 13.799 | 2.808 | 36.134 | 0.288 |
| 6 - 9                | 87     | 6.633   | 2.000     | 12.000 | 10.000 | 1.953 | 29.454 | 0.209 |
| 9 - 12               | 91     | 6.530   | 3.000     | 14.500 | 11.500 | 2.279 | 34.896 | 0.238 |
| 12 - 15              | 94     | 6.631   | 3.000     | 13.399 | 10.399 | 2.035 | 33.709 | 0.209 |
| 15 - 18              | 101    | 5.814   | 2.200     | 13.000 | 10.799 | 2.115 | 36.385 | 0.210 |
| 18 - 21              | 71     | 5.715   | 2.400     | 10.000 | 7.599  | 1.791 | 31.349 | 0.212 |
| 21 - 24              | 83     | 5.651   | 2.400     | 10.399 | 7.999  | 1.809 | 32.009 | 0.196 |
| 24 - 27              | 115    | 6.242   | 3.200     | 13.799 | 10.599 | 2.084 | 33.393 | 0.194 |
| 27 - 30              | 69     | 6.628   | 3.200     | 13.500 | 10.299 | 2.370 | 35.757 | 0.285 |
| 30 - 33              | 92     | 6.278   | 2.500     | 12.800 | 10.300 | 2.329 | 37.110 | 0.242 |
| 33 - 36              | 82     | 6.493   | 2.400     | 13.000 | 10.600 | 2.316 | 35.130 | 0.255 |
| 36 - 39              | 95     | 6.470   | 3.200     | 13.200 | 10.000 | 2.134 | 32.991 | 0.219 |
| 39 - 42              | 72     | 5.873   | 3.200     | 13.500 | 10.299 | 2.134 | 36.340 | 0.251 |
| 42 - 45              | 73     | 5.964   | 2.400     | 12.500 | 10.100 | 1.873 | 31.409 | 0.219 |
| 45 - 48              | 92     | 5.834   | 2.599     | 11.800 | 9.200  | 1.913 | 32.794 | 0.199 |
| 48 - 51              | 85     | 6.195   | 2.400     | 12.300 | 9.900  | 2.331 | 37.626 | 0.252 |
| 51 - 54              | 58     | 5.793   | 2.599     | 11.500 | 8.899  | 2.192 | 37.839 | 0.287 |
| 54 - 57              | 40     | 5.522   | 3.000     | 12.500 | 9.500  | 2.235 | 40.487 | 0.353 |
| 57 - 60              | 66     | 5.626   | 3.000     | 12.000 | 9.000  | 1.912 | 33.977 | 0.235 |
| 60 - 63              | 157    | 5.411   | 2.700     | 13.799 | 11.099 | 1.895 | 35.022 | 0.151 |

## CHILDREN'S SUBSCAPULAR SKINFOLD THICKNESS (MM) BY AGE (SEX COMBINED)

## CHILD GROWTH SURVEY - AMMAN

| Age (MONTHS) | NUMBER | MEAN  | RANGE  | S.D.  | C.V.   | S.E.  |
|--------------|--------|-------|--------|-------|--------|-------|
| 0 - 3        | 166    | 6.283 | 12.399 | 2.364 | 37.631 | 0.183 |
| 3 - 6        | 179    | 7.415 | 14.999 | 2.741 | 36.966 | 0.204 |
| 6 - 9        | 267    | 6.862 | 12.600 | 2.193 | 31.964 | 0.152 |
| 9 - 12       | 194    | 6.491 | 12.000 | 2.230 | 34.360 | 0.158 |
| 12 - 15      | 194    | 5.915 | 11.799 | 1.919 | 32.441 | 0.137 |
| 15 - 18      | 198    | 5.621 | 10.799 | 1.974 | 35.126 | 0.140 |
| 18 - 21      | 167    | 5.774 | 13.600 | 2.026 | 35.094 | 0.156 |
| 21 - 24      | 177    | 5.589 | 9.100  | 1.766 | 31.604 | 0.132 |
| 24 - 27      | 191    | 6.075 | 11.599 | 2.152 | 35.432 | 0.155 |
| 27 - 30      | 162    | 5.939 | 10.699 | 2.127 | 35.812 | 0.167 |
| 30 - 33      | 175    | 5.901 | 13.100 | 2.262 | 38.344 | 0.171 |
| 33 - 36      | 174    | 6.033 | 10.600 | 2.097 | 34.762 | 0.159 |
| 36 - 39      | 201    | 6.011 | 11.200 | 2.200 | 36.601 | 0.155 |
| 39 - 42      | 149    | 5.733 | 10.299 | 1.993 | 34.764 | 0.163 |
| 42 - 45      | 144    | 5.574 | 10.100 | 1.795 | 32.212 | 0.149 |
| 45 - 48      | 188    | 5.464 | 9.600  | 1.977 | 36.186 | 0.144 |
| 48 - 51      | 165    | 5.452 | 9.900  | 2.068 | 37.930 | 0.161 |
| 51 - 54      | 148    | 5.147 | 9.100  | 1.848 | 35.901 | 0.151 |
| 54 - 57      | 101    | 4.908 | 10.299 | 1.819 | 37.074 | 0.181 |
| 57 - 60      | 131    | 5.100 | 9.799  | 1.673 | 32.816 | 0.146 |
| 60 - 63      | 294    | 4.955 | 11.399 | 1.723 | 34.777 | 0.100 |

MEAN SUBSCAPULAR SKINFOLD THICKNESS INCREMENTS (MM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE GROUP<br>(MONTH) | MEAN VALUES |         |
|----------------------|-------------|---------|
|                      | MALES       | FEMALES |
| 0-3                  | 6.182       | 6.378   |
| 3-6                  | 0.829       | 1.393   |
| 6-9                  | 0.017       | -1.139  |
| 9-12                 | -0.571      | -0.102  |
| 12-15                | -0.656      | -0.493  |
| 15-18                | -0.380      | -0.222  |
| 18-21                | 0.398       | -0.099  |
| 21-24                | -0.283      | -0.063  |
| 24-27                | 0.288       | 0.590   |
| 27-30                | -0.395      | 0.386   |
| 30-33                | 0.055       | -0.350  |
| 33-36                | 0.051       | 0.315   |
| 36-39                | 0.066       | -0.123  |
| 39-42                | 0.001       | -0.596  |
| 42-45                | -0.427      | 0.090   |
| 45-48                | -0.064      | -0.129  |
| 48-51                | -0.446      | 0.360   |
| 51-54                | 0.668       | -0.402  |
| 54-57                | -0.225      | -0.270  |
| 57-60                | 0.058       | 0.106   |
| 60-63                | -0.131      | -0.217  |

## CHILDREN'S WEIGHT (KG) PERCENTILES BY AGE (SEX COMBINED)

CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)

| AGE (MONTHS) | 3.000  | 4.000  | 5.000  | 6.000  | 7.000  | 8.000  | 9.000  | 10.000 | 11.000 | 12.000 | 13.000 | 14.000 | 15.000 | 16.000 | 17.000 | 18.000 | 19.000 | 20.000 |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 - 3        | 3.109  | 3.361  | 3.896  | 4.544  | 5.285  | 5.945  | 6.522  | 7.119  | 7.727  | 8.319  | 8.887  | 9.487  | 10.119 | 10.788 | 11.498 | 12.259 | 13.078 | 13.957 |
| 3 - 6        | 4.123  | 4.780  | 5.356  | 6.144  | 7.026  | 7.977  | 8.919  | 9.877  | 10.868 | 11.898 | 12.970 | 14.087 | 15.255 | 16.480 | 17.767 | 19.120 | 20.554 | 22.072 |
| 6 - 9        | 5.233  | 6.128  | 6.798  | 7.598  | 8.448  | 9.319  | 10.230 | 11.187 | 12.187 | 13.237 | 14.344 | 15.504 | 16.724 | 18.004 | 19.344 | 20.754 | 22.244 | 23.814 |
| 9 - 12       | 5.965  | 6.789  | 7.591  | 8.365  | 9.199  | 10.099 | 11.074 | 12.124 | 13.254 | 14.464 | 15.754 | 17.124 | 18.574 | 20.104 | 21.714 | 23.404 | 25.174 | 27.024 |
| 12 - 15      | 6.521  | 7.014  | 7.865  | 8.850  | 9.760  | 10.799 | 11.974 | 13.294 | 14.754 | 16.354 | 18.094 | 19.974 | 22.004 | 24.184 | 26.514 | 29.004 | 31.654 | 34.474 |
| 15 - 18      | 6.160  | 7.594  | 8.572  | 9.475  | 10.249 | 11.082 | 12.082 | 13.157 | 14.417 | 15.877 | 17.537 | 19.407 | 21.487 | 23.787 | 26.317 | 29.067 | 32.037 | 35.237 |
| 18 - 21      | 7.407  | 8.454  | 9.266  | 10.031 | 11.004 | 12.010 | 13.157 | 14.447 | 15.887 | 17.477 | 19.217 | 21.117 | 23.177 | 25.407 | 27.817 | 30.407 | 33.177 | 36.127 |
| 21 - 24      | 7.705  | 8.821  | 9.544  | 10.458 | 11.503 | 12.659 | 13.937 | 15.357 | 16.927 | 18.657 | 20.547 | 22.607 | 24.847 | 27.267 | 29.867 | 32.647 | 35.607 | 38.747 |
| 24 - 27      | 8.410  | 9.280  | 10.186 | 10.983 | 11.859 | 12.801 | 13.816 | 14.906 | 16.076 | 17.426 | 18.966 | 20.696 | 22.616 | 24.726 | 27.026 | 29.506 | 32.166 | 35.006 |
| 27 - 30      | 9.146  | 10.154 | 10.808 | 11.576 | 12.511 | 13.504 | 14.574 | 15.724 | 17.054 | 18.574 | 20.284 | 22.184 | 24.274 | 26.554 | 29.024 | 31.684 | 34.534 | 37.574 |
| 30 - 33      | 9.666  | 10.443 | 11.209 | 12.111 | 13.053 | 14.085 | 15.204 | 16.414 | 17.814 | 19.404 | 21.184 | 23.154 | 25.314 | 27.664 | 30.204 | 32.934 | 35.854 | 38.964 |
| 33 - 36      | 9.532  | 10.524 | 11.402 | 12.574 | 13.928 | 15.334 | 16.894 | 18.614 | 20.504 | 22.574 | 24.834 | 27.284 | 29.924 | 32.754 | 35.774 | 38.984 | 42.384 | 45.974 |
| 36 - 39      | 10.264 | 11.014 | 12.047 | 13.004 | 14.197 | 15.501 | 16.921 | 18.551 | 20.391 | 22.441 | 24.691 | 27.141 | 29.791 | 32.641 | 35.691 | 38.941 | 42.391 | 45.941 |
| 39 - 42      | 10.594 | 11.383 | 12.284 | 13.455 | 14.719 | 16.077 | 17.537 | 19.107 | 20.887 | 22.887 | 25.017 | 27.367 | 29.937 | 32.727 | 35.747 | 38.997 | 42.447 | 45.997 |
| 42 - 45      | 10.974 | 12.101 | 13.121 | 14.371 | 15.749 | 17.264 | 18.924 | 20.724 | 22.664 | 24.744 | 26.964 | 29.424 | 32.124 | 35.064 | 38.244 | 41.664 | 45.324 | 49.124 |
| 45 - 48      | 11.227 | 12.536 | 13.311 | 14.550 | 15.915 | 17.415 | 19.055 | 20.835 | 22.755 | 24.815 | 27.015 | 29.455 | 32.135 | 35.065 | 38.245 | 41.665 | 45.325 | 49.125 |
| 48 - 51      | 11.586 | 12.726 | 13.431 | 14.616 | 15.932 | 17.484 | 19.174 | 20.994 | 22.944 | 25.024 | 27.244 | 29.694 | 32.374 | 35.304 | 38.484 | 41.904 | 45.564 | 49.364 |
| 51 - 54      | 12.073 | 12.944 | 13.965 | 15.011 | 16.202 | 17.532 | 19.002 | 20.612 | 22.362 | 24.242 | 26.262 | 28.422 | 30.722 | 33.162 | 35.842 | 38.762 | 41.922 | 45.322 |
| 54 - 57      | 11.894 | 13.465 | 14.360 | 15.223 | 16.423 | 17.813 | 19.393 | 21.073 | 22.853 | 24.733 | 26.713 | 28.893 | 31.273 | 33.853 | 36.633 | 39.613 | 42.893 | 46.473 |
| 57 - 60      | 12.462 | 13.659 | 14.861 | 15.945 | 17.406 | 18.953 | 20.593 | 22.333 | 24.173 | 26.113 | 28.153 | 30.293 | 32.533 | 34.973 | 37.613 | 40.453 | 43.493 | 46.733 |
| 60 - 63      | 12.452 | 13.852 | 15.072 | 16.282 | 17.750 | 19.057 | 20.649 | 22.439 | 24.329 | 26.319 | 28.409 | 30.599 | 32.889 | 35.379 | 38.069 | 40.959 | 44.049 | 47.349 |

## CHILDREN'S HEIGHT (CM) PERCENTILES BY AGE (SEX COMBINED)

## CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | **3** | **10** | **25** | **50** | **75**  | **90**  | **97**  |         |
|--------------|-------|--------|--------|--------|---------|---------|---------|---------|
| 0 - 3        | 168   | 49.240 | 50.594 | 53.143 | 55.225  | 58.252  | 60.059  | 64.209  |
| 3 - 6        | 179   | 54.859 | 57.229 | 59.354 | 62.020  | 64.473  | 67.661  | 71.065  |
| 6 - 9        | 206   | 59.814 | 61.552 | 64.162 | 66.537  | 69.259  | 71.249  | 73.827  |
| 9 - 12       | 198   | 62.672 | 65.417 | 68.158 | 69.884  | 71.610  | 74.225  | 75.669  |
| 12 - 15      | 197   | 64.638 | 67.720 | 69.991 | 72.962  | 75.392  | 78.008  | 79.318  |
| 15 - 18      | 197   | 66.294 | 69.543 | 72.802 | 75.915  | 78.284  | 80.496  | 82.878  |
| 18 - 21      | 167   | 69.304 | 72.574 | 75.080 | 77.736  | 80.498  | 82.568  | 85.758  |
| 21 - 24      | 174   | 72.029 | 74.233 | 77.038 | 80.174  | 82.757  | 85.486  | 86.979  |
| 24 - 27      | 190   | 72.512 | 76.448 | 78.855 | 81.374  | 84.043  | 86.562  | 89.644  |
| 27 - 30      | 162   | 69.729 | 78.449 | 81.071 | 83.974  | 86.379  | 89.392  | 92.531  |
| 30 - 33      | 175   | 72.369 | 80.415 | 83.363 | 85.921  | 89.045  | 91.760  | 94.346  |
| 33 - 36      | 175   | 76.169 | 81.309 | 84.505 | 87.757  | 90.202  | 93.369  | 97.205  |
| 36 - 39      | 201   | 79.430 | 83.626 | 86.722 | 89.316  | 92.400  | 95.190  | 98.003  |
| 39 - 42      | 149   | 82.287 | 85.424 | 88.291 | 91.397  | 94.346  | 97.295  | 100.850 |
| 42 - 45      | 144   | 84.622 | 87.704 | 90.955 | 93.691  | 97.211  | 100.529 | 104.391 |
| 45 - 48      | 190   | 86.762 | 90.542 | 92.775 | 95.832  | 98.547  | 101.254 | 103.791 |
| 48 - 51      | 166   | 87.642 | 90.979 | 93.682 | 96.210  | 98.231  | 101.311 | 104.952 |
| 51 - 54      | 148   | 87.310 | 91.458 | 94.471 | 97.713  | 101.028 | 104.267 | 108.479 |
| 54 - 57      | 101   | 91.775 | 94.014 | 96.797 | 100.041 | 102.959 | 105.358 | 108.868 |
| 57 - 60      | 132   | 93.087 | 95.747 | 98.689 | 101.624 | 105.030 | 107.970 | 109.970 |
| 60 - 63      | 296   | 87.504 | 95.575 | 99.821 | 103.501 | 107.250 | 109.768 | 114.974 |

CHILDREN'S HEAD CIRCUMFERENCE (CM) PERCENTILES BY AGE (SEX COMBINED)

CHILD GROWTH SURVEY - ANMAN

| AGE (MONTHS) | **3**  | **10** | **25** | **50** | **75** | **90** | **97** |
|--------------|--------|--------|--------|--------|--------|--------|--------|
| 0 - 3        | 34.276 | 35.305 | 36.331 | 37.737 | 38.961 | 40.058 | 44.404 |
| 3 - 6        | 37.494 | 38.397 | 39.346 | 40.575 | 42.036 | 43.784 | 47.443 |
| 6 - 9        | 39.630 | 40.742 | 41.739 | 42.831 | 44.005 | 45.216 | 46.229 |
| 9 - 12       | 40.557 | 41.848 | 42.849 | 43.966 | 45.288 | 46.412 | 47.955 |
| 12 - 15      | 40.947 | 42.516 | 43.575 | 44.663 | 45.747 | 46.984 | 48.259 |
| 15 - 18      | 41.838 | 43.036 | 44.453 | 45.465 | 46.335 | 47.199 | 48.785 |
| 18 - 21      | 42.702 | 43.651 | 44.657 | 45.926 | 46.946 | 47.797 | 48.721 |
| 21 - 24      | 42.841 | 43.945 | 45.257 | 46.237 | 47.435 | 48.479 | 49.571 |
| 24 - 27      | 43.139 | 44.329 | 45.445 | 46.555 | 47.589 | 48.243 | 49.094 |
| 27 - 30      | 43.425 | 44.866 | 46.144 | 46.935 | 47.806 | 48.736 | 50.236 |
| 30 - 33      | 44.073 | 45.179 | 46.147 | 47.060 | 48.036 | 48.913 | 49.711 |
| 33 - 36      | 44.176 | 45.452 | 46.133 | 47.339 | 48.452 | 49.652 | 50.889 |
| 36 - 39      | 44.731 | 45.825 | 46.879 | 47.734 | 48.576 | 49.604 | 50.432 |
| 39 - 42      | 44.807 | 45.736 | 46.702 | 47.846 | 48.778 | 49.553 | 51.011 |
| 42 - 45      | 45.469 | 46.276 | 47.128 | 48.212 | 49.293 | 50.319 | 50.923 |
| 45 - 48      | 45.306 | 46.384 | 47.307 | 48.295 | 49.368 | 50.224 | 50.972 |
| 48 - 51      | 44.400 | 45.873 | 47.150 | 48.302 | 49.370 | 50.334 | 51.139 |
| 51 - 54      | 45.490 | 46.367 | 47.487 | 48.601 | 49.644 | 50.625 | 51.377 |
| 54 - 57      | 46.475 | 47.003 | 47.723 | 48.702 | 49.908 | 50.903 | 51.667 |
| 57 - 60      | 46.129 | 46.929 | 48.002 | 48.825 | 49.888 | 50.764 | 51.329 |
| 60 - 63      | 45.947 | 46.944 | 47.827 | 48.931 | 49.958 | 50.821 | 51.671 |



## CHILDREN'S ARM CIRCUMFERENCE (CM) PERCENTILES BY AGE (SEX COMBINED)

CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | **3** | **10** | **25** | **50** | **75** | **90** | **97** |        |
|--------------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0 - 3        | 167   | 9.061  | 9.904  | 10.752 | 11.699 | 12.522 | 13.360 | 14.105 |
| 3 - 6        | 179   | 10.090 | 11.102 | 11.811 | 12.808 | 13.647 | 14.411 | 15.136 |
| 6 - 9        | 209   | 11.139 | 11.862 | 12.556 | 13.485 | 14.285 | 15.059 | 16.042 |
| 9 - 12       | 196   | 11.594 | 12.233 | 13.008 | 13.833 | 14.576 | 15.223 | 16.034 |
| 12 - 15      | 199   | 11.441 | 12.317 | 12.975 | 13.836 | 14.682 | 15.291 | 16.529 |
| 15 - 18      | 197   | 10.875 | 12.334 | 12.931 | 13.713 | 14.546 | 15.086 | 15.931 |
| 18 - 21      | 168   | 11.752 | 12.552 | 13.376 | 14.093 | 14.978 | 15.591 | 16.340 |
| 21 - 24      | 178   | 12.191 | 12.827 | 13.495 | 14.091 | 14.915 | 15.559 | 16.516 |
| 24 - 27      | 190   | 12.295 | 12.803 | 13.620 | 14.375 | 15.088 | 15.961 | 16.960 |
| 27 - 30      | 162   | 12.450 | 13.174 | 13.712 | 14.625 | 15.416 | 16.330 | 17.295 |
| 30 - 33      | 176   | 12.959 | 13.666 | 14.187 | 14.851 | 15.521 | 16.187 | 16.967 |
| 33 - 36      | 175   | 12.663 | 13.522 | 14.249 | 14.790 | 15.661 | 16.582 | 17.038 |
| 36 - 39      | 201   | 13.169 | 13.674 | 14.145 | 15.022 | 15.850 | 16.610 | 17.313 |
| 39 - 42      | 147   | 12.916 | 13.806 | 14.379 | 15.058 | 15.882 | 16.534 | 17.382 |
| 42 - 45      | 143   | 13.216 | 13.906 | 14.541 | 15.241 | 16.173 | 17.069 | 17.587 |
| 45 - 48      | 190   | 13.420 | 13.977 | 14.606 | 15.200 | 16.029 | 16.747 | 17.102 |
| 48 - 51      | 165   | 13.348 | 13.907 | 14.535 | 15.265 | 16.002 | 16.732 | 17.851 |
| 51 - 54      | 148   | 13.338 | 14.170 | 14.699 | 15.378 | 16.117 | 16.981 | 17.573 |
| 54 - 57      | 101   | 13.452 | 13.905 | 14.338 | 15.096 | 16.042 | 17.010 | 17.604 |
| 57 - 60      | 142   | 13.804 | 14.207 | 14.697 | 15.361 | 16.246 | 16.951 | 17.621 |
| 60 - 63      | 294   | 13.267 | 14.037 | 14.700 | 15.451 | 16.313 | 17.017 | 17.622 |

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MEAN TRICEPS SKINFOLD THICKNESS (MM) PERCENTILES BY AGE (SEX COMBINED)  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) |     | **3** | **10** | **25** | **50** | **75** | **90** | **97** |
|--------------|-----|-------|--------|--------|--------|--------|--------|--------|
| 0 - 3        | 166 | 2.904 | 3.726  | 4.677  | 5.761  | 6.546  | 7.348  | 10.110 |
| 3 - 6        | 179 | 3.831 | 4.585  | 5.659  | 6.897  | 8.386  | 9.868  | 11.251 |
| 6 - 9        | 207 | 4.177 | 5.061  | 5.831  | 6.933  | 8.135  | 9.889  | 12.151 |
| 9 - 12       | 198 | 4.485 | 5.039  | 5.657  | 6.838  | 7.656  | 9.094  | 10.432 |
| 12 - 15      | 194 | 4.187 | 4.761  | 5.517  | 6.381  | 7.331  | 8.532  | 10.168 |
| 15 - 18      | 198 | 4.098 | 4.696  | 5.457  | 6.305  | 7.323  | 8.649  | 10.210 |
| 18 - 21      | 167 | 4.287 | 5.091  | 5.772  | 6.784  | 7.947  | 9.100  | 10.555 |
| 21 - 24      | 177 | 4.518 | 4.955  | 5.741  | 6.809  | 7.709  | 9.100  | 10.291 |
| 24 - 27      | 191 | 4.442 | 4.763  | 5.662  | 6.950  | 8.123  | 9.281  | 10.663 |
| 27 - 30      | 162 | 4.514 | 5.177  | 5.920  | 6.947  | 8.177  | 9.938  | 10.918 |
| 30 - 33      | 175 | 4.538 | 5.194  | 6.019  | 7.183  | 8.582  | 10.102 | 12.079 |
| 33 - 36      | 174 | 4.632 | 5.217  | 5.997  | 7.100  | 8.522  | 10.127 | 11.565 |
| 36 - 39      | 201 | 4.567 | 5.204  | 5.913  | 7.138  | 8.417  | 9.729  | 10.803 |
| 39 - 42      | 149 | 4.671 | 5.247  | 5.939  | 6.970  | 8.193  | 9.577  | 10.589 |
| 42 - 45      | 144 | 4.542 | 5.073  | 5.715  | 6.917  | 8.057  | 9.843  | 10.918 |
| 45 - 48      | 188 | 4.507 | 5.025  | 5.746  | 6.744  | 7.642  | 9.811  | 10.645 |
| 48 - 51      | 165 | 4.399 | 4.861  | 5.665  | 6.659  | 8.053  | 9.418  | 10.273 |
| 51 - 54      | 148 | 4.298 | 4.711  | 5.619  | 6.416  | 7.736  | 8.886  | 9.751  |
| 54 - 57      | 101 | 4.049 | 4.565  | 5.198  | 5.967  | 7.004  | 8.742  | 10.003 |
| 57 - 60      | 131 | 4.436 | 4.780  | 5.487  | 6.154  | 7.422  | 8.512  | 10.273 |
| 60 - 63      | 294 | 4.093 | 4.606  | 5.206  | 6.034  | 7.216  | 8.532  | 9.967  |

MEAN BICEPS SKINFOLD THICKNESS (MM) PERCENTILES BY AGE (SEX COMBINED)  
 CHILDO GROWTH SURVEY - AMMAN

| AGE (MONTHS) | **3** | **10** | **25** | **50** | **75** | **90** | **97** |       |
|--------------|-------|--------|--------|--------|--------|--------|--------|-------|
| 0 - 3        | 166   | 2.373  | 2.815  | 3.325  | 3.911  | 4.625  | 5.561  | 6.462 |
| 3 - 6        | 179   | 2.569  | 3.003  | 3.556  | 4.226  | 5.058  | 5.913  | 7.062 |
| 6 - 9        | 208   | 2.567  | 3.066  | 3.517  | 4.203  | 5.302  | 6.257  | 7.825 |
| 9 - 12       | 198   | 2.661  | 3.129  | 3.574  | 4.034  | 4.616  | 5.464  | 6.516 |
| 12 - 15      | 194   | 2.619  | 3.060  | 3.469  | 4.006  | 4.663  | 5.396  | 6.353 |
| 15 - 18      | 198   | 2.587  | 2.900  | 3.380  | 3.953  | 4.811  | 5.723  | 6.525 |
| 18 - 21      | 167   | 2.438  | 2.869  | 3.487  | 4.015  | 4.854  | 5.717  | 6.684 |
| 21 - 24      | 177   | 2.671  | 3.071  | 3.567  | 3.971  | 4.778  | 5.571  | 6.981 |
| 24 - 27      | 191   | 2.605  | 3.013  | 3.521  | 4.223  | 5.008  | 5.581  | 6.591 |
| 27 - 30      | 162   | 2.590  | 3.012  | 3.511  | 4.145  | 4.983  | 5.636  | 6.910 |
| 30 - 33      | 175   | 2.531  | 2.986  | 3.588  | 4.251  | 5.148  | 5.824  | 6.783 |
| 33 - 36      | 174   | 2.641  | 3.075  | 3.645  | 4.266  | 5.257  | 6.216  | 7.123 |
| 36 - 39      | 201   | 2.576  | 2.961  | 3.483  | 4.194  | 5.043  | 5.845  | 7.205 |
| 39 - 42      | 149   | 2.580  | 2.998  | 3.483  | 3.975  | 4.658  | 5.505  | 6.885 |
| 42 - 45      | 144   | 2.559  | 2.850  | 3.412  | 4.064  | 4.559  | 5.517  | 6.644 |
| 45 - 48      | 188   | 2.422  | 2.844  | 3.320  | 3.947  | 4.586  | 5.712  | 6.993 |
| 48 - 51      | 165   | 2.519  | 2.820  | 3.304  | 3.900  | 4.561  | 5.511  | 6.445 |
| 51 - 54      | 148   | 2.333  | 2.734  | 3.279  | 3.857  | 4.410  | 5.304  | 6.092 |
| 54 - 57      | 101   | 2.228  | 2.645  | 3.236  | 3.837  | 4.375  | 5.116  | 5.905 |
| 57 - 60      | 131   | 2.517  | 2.696  | 3.069  | 3.605  | 4.252  | 5.001  | 5.785 |
| 60 - 63      | 294   | 2.242  | 2.620  | 3.045  | 3.731  | 4.331  | 4.987  | 5.805 |

MEAN SUPRATILIAE SKINFOLD THICKNESS (MM) PERCENTILEBY AGE (SEX COMBINED)

CHILD GROWTH SURVEY - ARMAN

| AGE (MONTHS) | **3** | **10** | **25** | **50** | **75** | **90** | **97** |
|--------------|-------|--------|--------|--------|--------|--------|--------|
| 0 - 3        | 166   | 2.670  | 3.533  | 4.149  | 5.169  | 6.047  | 7.648  |
| 3 - 6        | 179   | 2.979  | 3.731  | 4.565  | 5.505  | 6.597  | 7.613  |
| 6 - 9        | 207   | 3.356  | 4.069  | 4.689  | 5.604  | 6.542  | 7.663  |
| 9 - 12       | 198   | 3.586  | 3.989  | 4.486  | 5.254  | 6.085  | 7.110  |
| 12 - 15      | 194   | 3.234  | 3.664  | 4.178  | 4.878  | 5.802  | 6.583  |
| 15 - 18      | 198   | 3.079  | 3.587  | 4.028  | 4.774  | 5.485  | 6.289  |
| 18 - 21      | 167   | 3.303  | 3.743  | 4.267  | 5.050  | 5.821  | 6.815  |
| 21 - 24      | 177   | 3.615  | 3.908  | 4.303  | 4.883  | 5.560  | 6.601  |
| 24 - 27      | 191   | 3.290  | 3.729  | 4.243  | 4.925  | 5.924  | 6.938  |
| 27 - 30      | 162   | 3.208  | 3.696  | 4.263  | 4.915  | 5.750  | 7.033  |
| 30 - 33      | 175   | 3.124  | 3.680  | 4.242  | 5.162  | 5.826  | 7.401  |
| 33 - 36      | 174   | 3.323  | 3.833  | 4.320  | 5.140  | 6.099  | 6.994  |
| 36 - 39      | 201   | 3.185  | 3.659  | 4.133  | 4.883  | 5.942  | 7.024  |
| 39 - 42      | 149   | 3.203  | 3.651  | 4.067  | 4.848  | 5.584  | 6.699  |
| 42 - 45      | 144   | 3.194  | 3.665  | 4.167  | 4.887  | 5.641  | 6.894  |
| 45 - 48      | 188   | 3.061  | 3.463  | 3.856  | 4.404  | 5.370  | 6.528  |
| 48 - 51      | 165   | 2.891  | 3.315  | 3.873  | 4.458  | 5.386  | 6.294  |
| 51 - 54      | 148   | 2.779  | 3.242  | 3.842  | 4.456  | 5.274  | 6.084  |
| 54 - 57      | 101   | 2.786  | 3.183  | 3.677  | 4.251  | 4.741  | 5.977  |
| 57 - 60      | 131   | 3.037  | 3.290  | 3.714  | 4.230  | 4.945  | 5.605  |
| 60 - 63      | 294   | 2.834  | 3.269  | 3.772  | 4.343  | 5.087  | 6.014  |

## MEAN SUBSCAPULAR SKINFOLD THICKNESS (MM)

## CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS)

\*\*3\*\*

\*\*10\*\*

\*\*25\*\*

\*\*50\*\*

.....

.....

|         |     |       |       |       |       |
|---------|-----|-------|-------|-------|-------|
| 0 - 3   | 166 | 3.201 | 3.782 | 4.570 | 5.730 |
| 3 - 6   | 179 | 3.456 | 4.329 | 5.452 | 7.005 |
| 6 - 9   | 207 | 3.913 | 4.483 | 5.083 | 6.577 |
| 9 - 12  | 198 | 3.466 | 4.095 | 4.773 | 6.007 |
| 12 - 15 | 194 | 3.411 | 3.961 | 4.582 | 5.652 |
| 15 - 18 | 198 | 2.898 | 3.644 | 4.264 | 5.168 |
| 18 - 21 | 167 | 3.059 | 3.696 | 4.456 | 5.415 |
| 21 - 24 | 177 | 3.317 | 3.856 | 4.403 | 4.968 |
| 24 - 27 | 191 | 3.374 | 3.931 | 4.592 | 5.611 |
| 27 - 30 | 162 | 3.288 | 3.808 | 4.522 | 5.389 |
| 30 - 33 | 175 | 2.772 | 3.557 | 4.323 | 5.358 |
| 33 - 36 | 174 | 2.992 | 3.863 | 4.518 | 5.673 |
| 36 - 39 | 201 | 3.203 | 3.765 | 4.450 | 5.545 |
| 39 - 42 | 149 | 3.393 | 3.825 | 4.422 | 5.181 |
| 42 - 45 | 144 | 3.217 | 3.682 | 4.344 | 5.268 |
| 45 - 48 | 188 | 2.801 | 3.447 | 4.069 | 4.904 |
| 48 - 51 | 165 | 2.840 | 3.423 | 4.047 | 5.017 |
| 51 - 54 | 148 | 2.778 | 3.428 | 4.055 | 4.777 |
| 54 - 57 | 101 | 2.605 | 3.136 | 3.894 | 4.581 |
| 57 - 60 | 131 | 3.196 | 3.565 | 4.095 | 4.685 |
| 60 - 63 | 294 | 2.740 | 3.221 | 3.862 | 4.674 |

PERCENTILES BY AGE (SEX COMBINED)

| **75** | **90** | **97** |
|--------|--------|--------|
| 7.585  | 9.581  | 11.641 |
| 9.264  | 11.429 | 12.751 |
| 8.237  | 10.023 | 11.575 |
| 7.389  | 10.034 | 11.032 |
| 6.970  | 8.491  | 9.937  |
| 6.627  | 8.393  | 10.310 |
| 6.848  | 8.669  | 10.177 |
| 6.586  | 8.234  | 10.008 |
| 7.143  | 9.196  | 10.795 |
| 7.084  | 8.984  | 11.113 |
| 7.198  | 9.016  | 10.879 |
| 7.207  | 8.912  | 10.897 |
| 7.183  | 9.367  | 11.602 |
| 6.379  | 8.857  | 10.747 |
| 6.547  | 8.097  | 9.637  |
| 6.904  | 8.243  | 10.161 |
| 6.169  | 8.545  | 10.459 |
| 5.789  | 7.349  | 10.582 |
| 5.698  | 7.138  | 9.811  |
| 5.827  | 7.396  | 9.823  |
| 5.803  | 7.063  | 9.245  |

## APPENDIX X

## COMPLETELY BREAST FED CHILDREN'S WEIGHT (KG) BY AGE AND SEX

## CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M F A N | R A N G E |        |        | S.D.  | C.V.   | S.E.  |
|--------------|--------|---------|-----------|--------|--------|-------|--------|-------|
|              |        |         | MIN.      | MAX.   | VAL.   |       |        |       |
| M A L E S    |        |         |           |        |        |       |        |       |
| 0 - 3        | 32     | 4.577   | 3.000     | 7.279  | 4.279  | 1.004 | 21.946 | 0.177 |
| 3 - 6        | 18     | 6.630   | 3.940     | 8.550  | 4.610  | 1.061 | 16.004 | 0.250 |
| 6 - 9        | 37     | 7.894   | 5.180     | 10.149 | 4.969  | 1.040 | 13.181 | 0.171 |
| 9 - 12       | 19     | 8.703   | 6.000     | 10.800 | 4.800  | 1.372 | 15.772 | 0.314 |
| 12 - 15      | 20     | 8.460   | 4.699     | 10.719 | 6.019  | 1.474 | 17.426 | 0.329 |
| 15 - 18      | 10     | 9.841   | 8.670     | 11.100 | 2.430  | 0.983 | 9.996  | 0.311 |
| 18 - 21      | 4      | 10.774  | 9.450     | 12.299 | 2.849  | 1.219 | 11.319 | 0.609 |
| 21 - 24      | 2      | 11.274  | 10.000    | 12.549 | 2.549  | 1.803 | 15.992 | 1.274 |
| 24 - 27      | 1      | 13.500  | 13.500    | 13.500 | 0.000  | 0.000 | 0.000  | 0.000 |
| 27 - 30      | 1      | 8.500   | 8.500     | 8.500  | 0.000  | 0.000 | 0.000  | 0.000 |
| 30 - 33      | 1      | 13.000  | 13.000    | 13.000 | 0.000  | 0.000 | 0.000  | 0.000 |
| 33 - 36      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 36 - 39      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 39 - 42      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 42 - 45      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 45 - 48      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 48 - 51      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 51 - 54      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 54 - 57      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 57 - 60      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 60 - 63      | 3      | 13.149  | 6.550     | 17.000 | 10.449 | 5.742 | 43.666 | 3.315 |

COMPLETELY BREAST FED CHILDREN'S WEIGHT (KG) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

NUMBER    M E A N    R A N G E    S.D.    C.V.    S.E.

MIN.    MAX.    VAL.

AGE (MONTHS)

F E M A L E S

|         |    |        |        |        |       |       |        |       |
|---------|----|--------|--------|--------|-------|-------|--------|-------|
| 0 - 3   | 38 | 4.301  | 3.050  | 6.100  | 3.050 | 0.786 | 18.265 | 0.127 |
| 3 - 6   | 17 | 6.132  | 5.079  | 7.250  | 2.170 | 0.675 | 11.022 | 0.163 |
| 6 - 9   | 22 | 7.634  | 5.199  | 8.850  | 3.650 | 0.858 | 11.546 | 0.183 |
| 9 - 12  | 18 | 8.295  | 6.569  | 10.700 | 4.130 | 1.031 | 12.430 | 0.241 |
| 12 - 15 | 16 | 8.541  | 6.869  | 11.130 | 4.260 | 1.123 | 13.149 | 0.280 |
| 15 - 18 | 4  | 9.475  | 8.899  | 9.950  | 1.050 | 0.433 | 4.570  | 0.216 |
| 18 - 21 | 4  | 8.477  | 7.500  | 9.700  | 2.200 | 1.054 | 12.442 | 0.527 |
| 21 - 24 | 2  | 9.149  | 8.649  | 9.649  | 1.000 | 0.707 | 7.727  | 0.499 |
| 24 - 27 | 1  | 8.220  | 4.220  | 8.220  | 0.000 | 0.000 | 0.000  | 0.000 |
| 27 - 30 | 1  | 12.899 | 12.899 | 12.899 | 0.000 | 0.000 | 0.000  | 0.000 |
| 30 - 33 | 2  | 11.350 | 9.750  | 12.950 | 3.200 | 2.262 | 19.934 | 1.600 |
| 33 - 36 | 0  | 0.000  | 0.000  | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 36 - 39 | 0  | 0.000  | 0.000  | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 39 - 42 | 1  | 13.700 | 13.700 | 13.700 | 0.000 | 0.000 | 0.000  | 0.000 |
| 42 - 45 | 0  | 0.000  | 0.000  | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 45 - 48 | 1  | 14.700 | 14.200 | 14.200 | 0.000 | 0.000 | 0.000  | 0.000 |
| 48 - 51 | 1  | 16.799 | 16.799 | 16.799 | 0.000 | 0.000 | 0.000  | 0.000 |
| 51 - 54 | 1  | 13.000 | 13.000 | 13.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 54 - 57 | 0  | 0.000  | 0.000  | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 57 - 60 | 0  | 0.000  | 0.000  | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 60 - 63 | 1  | 15.950 | 15.950 | 15.950 | 0.000 | 0.000 | 0.000  | 0.000 |



COMPLETELY BREAST FED CHILDREN'S LENGTH (CM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M E A N | R A N G E |         |        | S.D.   | C.V.   | S.E.   |
|--------------|--------|---------|-----------|---------|--------|--------|--------|--------|
|              |        |         | MIN.      | MAX.    | VAL.   |        |        |        |
|              |        |         | M A L E S |         |        |        |        |        |
| 0 - 3        | 32     | 74.193  | 44.599    | 63.599  | 19.000 | 4.048  | 7.386  | 0.715  |
| 3 - 6        | 18     | 67.683  | 53.000    | 67.699  | 14.699 | 3.416  | 5.449  | 0.805  |
| 6 - 9        | 18     | 67.510  | 61.300    | 72.900  | 11.600 | 2.823  | 4.182  | 0.458  |
| 9 - 12       | 20     | 70.710  | 64.900    | 74.800  | 9.899  | 2.354  | 3.329  | 0.526  |
| 12 - 15      | 19     | 72.057  | 59.800    | 78.900  | 19.100 | 4.393  | 6.097  | 1.007  |
| 15 - 18      | 9      | 70.255  | 72.500    | 80.300  | 7.800  | 2.403  | 3.152  | 0.801  |
| 18 - 21      | 4      | 78.949  | 74.199    | 84.900  | 10.700 | 5.036  | 6.378  | 2.518  |
| 21 - 24      | 2      | 74.150  | 71.900    | 76.400  | 4.500  | 3.181  | 4.291  | 2.249  |
| 24 - 27      | 1      | 83.699  | 83.699    | 83.699  | 0.000  | 0.000  | 0.000  | 0.000  |
| 27 - 30      | 1      | 75.900  | 75.900    | 75.900  | 0.000  | 0.000  | 0.000  | 0.000  |
| 30 - 33      | 1      | 86.199  | 86.199    | 86.199  | 0.000  | 0.000  | 0.000  | 0.000  |
| 33 - 36      | 0      | 0.000   | 0.000     | 0.000   | 0.000  | 0.000  | 0.000  | 0.000  |
| 36 - 39      | 0      | 0.000   | 0.000     | 0.000   | 0.000  | 0.000  | 0.000  | 0.000  |
| 39 - 42      | 0      | 0.000   | 0.000     | 0.000   | 0.000  | 0.000  | 0.000  | 0.000  |
| 42 - 45      | 0      | 0.000   | 0.000     | 0.000   | 0.000  | 0.000  | 0.000  | 0.000  |
| 45 - 48      | 0      | 0.000   | 0.000     | 0.000   | 0.000  | 0.000  | 0.000  | 0.000  |
| 48 - 51      | 0      | 0.000   | 0.000     | 0.000   | 0.000  | 0.000  | 0.000  | 0.000  |
| 51 - 54      | 0      | 0.000   | 0.000     | 0.000   | 0.000  | 0.000  | 0.000  | 0.000  |
| 54 - 57      | 0      | 0.000   | 0.000     | 0.000   | 0.000  | 0.000  | 0.000  | 0.000  |
| 57 - 60      | 0      | 0.000   | 0.000     | 0.000   | 0.000  | 0.000  | 0.000  | 0.000  |
| 60 - 63      | 1      | 119.566 | 67.699    | 105.000 | 42.300 | 23.353 | 26.073 | 13.482 |

COMPLETELY BREAST FED CHILDREN'S LENGTH (CM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)  | NUMBER | MEAN    | MIN.    | RANGE<br>MAX. | VAL.   | S.D.   | C.V.   | S.E.   |
|---------------|--------|---------|---------|---------------|--------|--------|--------|--------|
| F E M A L E S |        |         |         |               |        |        |        |        |
| 0 - 3         | 38     | 54.450  | 49.900  | 59.699        | 9.799  | 2.837  | 5.211  | 0.460  |
| 3 - 6         | 17     | 61.523  | 55.699  | 70.699        | 14.999 | 3.506  | 5.699  | 0.850  |
| 6 - 9         | 22     | 64.931  | 57.599  | 71.400        | 13.800 | 3.162  | 4.871  | 0.674  |
| 9 - 12        | 18     | 69.072  | 63.199  | 75.100        | 11.900 | 3.210  | 4.647  | 0.756  |
| 12 - 15       | 16     | 71.487  | 67.199  | 75.900        | 8.700  | 2.525  | 3.532  | 0.631  |
| 15 - 18       | 4      | 76.175  | 75.000  | 77.800        | 2.800  | 1.295  | 1.647  | 0.627  |
| 18 - 21       | 4      | 74.675  | 71.699  | 77.400        | 5.700  | 2.796  | 3.690  | 1.378  |
| 21 - 24       | 2      | 73.699  | 71.900  | 75.500        | 3.599  | 2.545  | 3.453  | 1.799  |
| 24 - 27       | 1      | 74.100  | 74.100  | 74.100        | 0.000  | 0.000  | 0.000  | 0.000  |
| 27 - 30       | 1      | 83.800  | 83.800  | 83.800        | 0.000  | 0.000  | 0.000  | 0.000  |
| 30 - 33       | 2      | 78.600  | 65.800  | 91.400        | 25.600 | 18.101 | 23.030 | 12.799 |
| 33 - 36       | 0      | 0.000   | 0.000   | 0.000         | 0.000  | 0.000  | 0.000  | 0.000  |
| 36 - 39       | 0      | 0.000   | 0.000   | 0.000         | 0.000  | 0.000  | 0.000  | 0.000  |
| 39 - 42       | 1      | 91.800  | 91.800  | 91.800        | 0.000  | 0.000  | 0.000  | 0.000  |
| 42 - 45       | 0      | 0.000   | 0.000   | 0.000         | 0.000  | 0.000  | 0.000  | 0.000  |
| 45 - 48       | 1      | 97.500  | 97.500  | 97.500        | 0.000  | 0.000  | 0.000  | 0.000  |
| 48 - 51       | 1      | 100.800 | 100.800 | 100.800       | 0.000  | 0.000  | 0.000  | 0.000  |
| 51 - 54       | 1      | 92.800  | 92.800  | 92.800        | 0.000  | 0.000  | 0.000  | 0.000  |
| 54 - 57       | 0      | 0.000   | 0.000   | 0.000         | 0.000  | 0.000  | 0.000  | 0.000  |
| 57 - 60       | 0      | 0.000   | 0.000   | 0.000         | 0.000  | 0.000  | 0.000  | 0.000  |
| 60 - 63       | 1      | 103.800 | 103.800 | 103.800       | 0.000  | 0.000  | 0.000  | 0.000  |

COMPLETELY BREAST FED CHILDREN'S HEAD CIRCUMFERENCE (CM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M E A N | R A N G E |        | VAL.   | S.D.  | C.V.  | S.E.  |
|--------------|--------|---------|-----------|--------|--------|-------|-------|-------|
|              |        |         | MIN.      | MAX.   |        |       |       |       |
| M A L E S    |        |         |           |        |        |       |       |       |
| 0 - 3        | 32     | 37.684  | 33.700    | 41.500 | 7.799  | 1.913 | 5.077 | 0.336 |
| 3 - 6        | 18     | 41.094  | 35.300    | 46.800 | 11.500 | 2.536 | 6.171 | 0.597 |
| 6 - 9        | 38     | 43.778  | 40.400    | 46.500 | 6.099  | 1.436 | 3.280 | 0.232 |
| 9 - 12       | 20     | 44.599  | 41.500    | 47.000 | 5.500  | 1.419 | 3.181 | 0.317 |
| 12 - 15      | 19     | 44.357  | 40.000    | 47.000 | 7.000  | 1.548 | 3.491 | 0.355 |
| 15 - 18      | 10     | 46.750  | 45.000    | 49.200 | 4.200  | 1.229 | 2.629 | 0.388 |
| 18 - 21      | 4      | 47.000  | 46.599    | 47.400 | 0.800  | 0.326 | 0.694 | 0.163 |
| 21 - 24      | 2      | 44.950  | 43.200    | 46.700 | 3.500  | 2.474 | 5.505 | 1.749 |
| 24 - 27      | 1      | 48.599  | 48.599    | 48.599 | 0.000  | 0.000 | 0.000 | 0.000 |
| 27 - 30      | 1      | 45.500  | 45.500    | 45.500 | 0.000  | 0.000 | 0.000 | 0.000 |
| 30 - 33      | 1      | 47.400  | 47.400    | 47.400 | 0.000  | 0.000 | 0.000 | 0.000 |
| 33 - 36      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 |
| 36 - 39      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 |
| 39 - 42      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 |
| 42 - 45      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 |
| 45 - 48      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 |
| 48 - 51      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 |
| 51 - 54      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 |
| 54 - 57      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 |
| 57 - 60      | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 |
| 60 - 63      | 1      | 44.933  | 41.000    | 48.599 | 7.599  | 3.807 | 8.472 | 2.197 |

COMPLETELY BREAST FED CHILDREN'S HEAD CIRCUMFERENCE (CM) BY AGE AND SEX

CHILD GROWTH SURVEY - ARMAN

NUMBER      MEAN      RANGE      MIN.      MAX.      VAL.      S.D.      C.V.      S.E.

AGE (MONTHS)

| AGE (MONTHS) | NUMBER | MEAN   | RANGE  | MIN.   | MAX.   | VAL.  | S.D.  | C.V.  | S.E.  |
|--------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0 - 3        | 38     | 37.031 | 36.200 | 40.400 | 6.199  | 1.970 | 4.240 | 0.254 | 0.254 |
| 3 - 6        | 17     | 40.429 | 38.000 | 48.200 | 10.200 | 2.376 | 5.877 | 0.576 | 0.576 |
| 6 - 9        | 22     | 42.154 | 38.000 | 45.300 | 7.500  | 1.427 | 3.385 | 0.304 | 0.304 |
| 9 - 12       | 18     | 43.111 | 41.800 | 45.700 | 3.900  | 1.175 | 2.708 | 0.276 | 0.276 |
| 12 - 15      | 16     | 43.393 | 41.000 | 46.000 | 5.000  | 1.312 | 3.025 | 0.328 | 0.328 |
| 15 - 18      | 4      | 45.725 | 44.500 | 47.200 | 2.700  | 1.117 | 2.433 | 0.558 | 0.558 |
| 18 - 21      | 4      | 44.449 | 43.599 | 45.300 | 1.700  | 0.945 | 2.082 | 0.462 | 0.462 |
| 21 - 24      | 2      | 46.299 | 44.000 | 48.599 | 4.599  | 3.252 | 3.025 | 2.299 | 2.299 |
| 24 - 27      | 1      | 45.200 | 45.200 | 45.200 | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 |
| 27 - 30      | 1      | 47.599 | 47.599 | 47.599 | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 |
| 30 - 33      | 2      | 44.450 | 43.700 | 45.200 | 1.500  | 1.010 | 2.386 | 0.749 | 0.749 |
| 33 - 36      | 0      | 0.000  | 0.000  | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 |
| 36 - 39      | 0      | 0.000  | 0.000  | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 |
| 39 - 42      | 1      | 47.000 | 47.000 | 47.000 | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 |
| 42 - 45      | 0      | 0.000  | 0.000  | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 |
| 45 - 48      | 1      | 49.300 | 49.300 | 49.300 | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 |
| 48 - 51      | 1      | 40.800 | 40.800 | 40.800 | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 |
| 51 - 54      | 1      | 49.000 | 49.000 | 49.000 | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 |
| 54 - 57      | 0      | 0.000  | 0.000  | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 |
| 57 - 60      | 0      | 0.000  | 0.000  | 0.000  | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 |
| 60 - 63      | 1      | 47.200 | 47.200 | 47.200 | 0.000  | 0.000 | 0.000 | 0.000 | 0.000 |

I F M A L E S

COMPLETELY BREAST FED CHILDREN'S ARM CIRCUMFERENCE (CM) BY AGE AND SEX

CHILD GROWTH SURVEY - ANMAN

NUMBER MEAN RANGE VAL. S.D. C.V. S.E.

AGE (MONTHS)

| AGE (MONTHS) | NUMBER | MEAN   | RANGE           | VAL.  | S.D.  | C.V.   | S.E.  |
|--------------|--------|--------|-----------------|-------|-------|--------|-------|
| 0 - 3        | 32     | 11.953 | 9.300 - 15.500  | 6.199 | 1.378 | 11.533 | 0.243 |
| 3 - 6        | 18     | 12.883 | 11.300 - 15.000 | 3.699 | 1.076 | 8.352  | 0.253 |
| 6 - 9        | 38     | 13.423 | 9.500 - 16.500  | 6.999 | 1.260 | 9.387  | 0.204 |
| 9 - 12       | 20     | 13.969 | 11.000 - 15.700 | 4.700 | 1.194 | 8.549  | 0.267 |
| 12 - 15      | 19     | 13.978 | 12.000 - 16.400 | 4.400 | 1.183 | 8.469  | 0.271 |
| 15 - 18      | 10     | 14.339 | 12.500 - 17.500 | 4.999 | 1.419 | 9.895  | 0.448 |
| 18 - 21      | 4      | 14.899 | 13.200 - 16.000 | 2.799 | 1.205 | 8.090  | 0.602 |
| 21 - 24      | 2      | 14.199 | 13.399 - 15.000 | 1.600 | 1.131 | 7.967  | 0.799 |
| 24 - 27      | 1      | 17.000 | 17.000 - 17.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 27 - 30      | 1      | 12.500 | 12.500 - 12.500 | 0.000 | 0.000 | 0.000  | 0.000 |
| 30 - 33      | 1      | 17.000 | 17.000 - 17.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 33 - 36      | 0      | 0.000  | 0.000 - 0.000   | 0.000 | 0.000 | 0.000  | 0.000 |
| 36 - 39      | 0      | 0.000  | 0.000 - 0.000   | 0.000 | 0.000 | 0.000  | 0.000 |
| 39 - 42      | 0      | 0.000  | 0.000 - 0.000   | 0.000 | 0.000 | 0.000  | 0.000 |
| 42 - 45      | 0      | 0.000  | 0.000 - 0.000   | 0.000 | 0.000 | 0.000  | 0.000 |
| 45 - 48      | 0      | 0.000  | 0.000 - 0.000   | 0.000 | 0.000 | 0.000  | 0.000 |
| 48 - 51      | 0      | 0.000  | 0.000 - 0.000   | 0.000 | 0.000 | 0.000  | 0.000 |
| 51 - 54      | 0      | 0.000  | 0.000 - 0.000   | 0.000 | 0.000 | 0.000  | 0.000 |
| 54 - 57      | 0      | 0.000  | 0.000 - 0.000   | 0.000 | 0.000 | 0.000  | 0.000 |
| 57 - 60      | 0      | 0.000  | 0.000 - 0.000   | 0.000 | 0.000 | 0.000  | 0.000 |
| 60 - 63      | 3      | 13.266 | 12.200 - 15.200 | 3.000 | 1.677 | 12.642 | 0.968 |

M A L E S

COMPLETELY BREAST FED CHILDREN'S ARM CIRCUMFERENCE (CM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>***** | NUMBER | M E A N | R A N G E |        |       | S.D   | C.V.   | S.E.  |
|-----------------------|--------|---------|-----------|--------|-------|-------|--------|-------|
|                       |        |         | MIN.      | MAX.   | VAL.  |       |        |       |
| F E M A L E S         |        |         |           |        |       |       |        |       |
| 0 - 3                 | 38     | 11.347  | 9.500     | 17.400 | 7.900 | 1.529 | 13.477 | 0.248 |
| 3 - 6                 | 17     | 12.776  | 11.300    | 13.799 | 2.499 | 0.782 | 6.122  | 0.189 |
| 6 - 9                 | 22     | 13.131  | 11.200    | 14.600 | 3.400 | 0.838 | 6.381  | 0.178 |
| 9 - 12                | 18     | 13.777  | 12.000    | 16.000 | 4.000 | 1.151 | 8.359  | 0.271 |
| 12 - 15               | 16     | 13.981  | 11.000    | 17.000 | 5.999 | 1.488 | 10.644 | 0.372 |
| 15 - 18               | 4      | 14.674  | 14.299    | 15.000 | 0.700 | 0.377 | 2.572  | 0.168 |
| 18 - 21               | 4      | 12.624  | 12.000    | 13.500 | 1.500 | 0.699 | 5.453  | 0.349 |
| 21 - 24               | 2      | 13.399  | 13.000    | 13.799 | 0.799 | 0.565 | 4.221  | 0.399 |
| 24 - 27               | 1      | 13.500  | 13.500    | 13.500 | 0.000 | 0.000 | 0.000  | 0.000 |
| 27 - 30               | 1      | 16.500  | 16.500    | 16.500 | 0.000 | 0.000 | 0.000  | 0.000 |
| 30 - 33               | 2      | 14.549  | 13.799    | 15.299 | 1.500 | 1.060 | 7.289  | 0.749 |
| 33 - 36               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 36 - 39               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 39 - 42               | 1      | 14.500  | 14.500    | 14.500 | 0.000 | 0.000 | 0.000  | 0.000 |
| 42 - 45               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 45 - 48               | 1      | 14.299  | 14.299    | 14.299 | 0.000 | 0.000 | 0.000  | 0.000 |
| 48 - 51               | 1      | 16.299  | 16.299    | 16.299 | 0.000 | 0.000 | 0.000  | 0.000 |
| 51 - 54               | 1      | 14.399  | 14.399    | 14.399 | 0.000 | 0.000 | 0.000  | 0.000 |
| 54 - 57               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 57 - 60               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 60 - 63               | 1      | 14.500  | 14.500    | 14.500 | 0.000 | 0.000 | 0.000  | 0.000 |

COMPLETELY BREAST FED CHILDREN'S MEAN TRICEPS SKINFOLD THICKNESS(MM) BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>***** | NUMBER | M E A N | R A N G E |        | VAL.  | S.D   | C.V.   | S.E.  |
|-----------------------|--------|---------|-----------|--------|-------|-------|--------|-------|
|                       |        |         | MIN.      | MAX.   |       |       |        |       |
| M A L E S             |        |         |           |        |       |       |        |       |
| 0 - 3                 | 32     | 5.493   | 3.200     | 7.199  | 3.999 | 1.084 | 19.745 | 0.191 |
| 3 - 6                 | 18     | 6.611   | 5.000     | 9.200  | 4.200 | 1.275 | 19.286 | 0.300 |
| 6 - 9                 | 37     | 7.048   | 2.800     | 12.200 | 9.399 | 1.895 | 26.886 | 0.311 |
| 9 - 12                | 20     | 6.264   | 4.199     | 8.600  | 4.400 | 1.154 | 18.426 | 0.258 |
| 12 - 15               | 19     | 6.421   | 3.400     | 9.500  | 6.099 | 1.405 | 21.893 | 0.322 |
| 15 - 18               | 10     | 6.169   | 4.400     | 9.899  | 5.499 | 2.080 | 33.721 | 0.657 |
| 18 - 21               | 3      | 6.266   | 5.800     | 7.000  | 1.200 | 0.642 | 10.259 | 0.371 |
| 21 - 24               | 2      | 6.899   | 5.800     | 8.000  | 2.200 | 1.555 | 22.545 | 1.099 |
| 24 - 27               | 1      | 9.200   | 9.200     | 9.200  | 0.000 | 0.000 | 0.000  | 0.000 |
| 27 - 30               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 30 - 33               | 1      | 10.600  | 10.600    | 10.600 | 0.000 | 0.000 | 0.000  | 0.000 |
| 33 - 36               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 36 - 39               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 39 - 42               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 42 - 45               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 45 - 48               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 48 - 51               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 51 - 54               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 54 - 57               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 57 - 60               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 60 - 63               | 3      | 6.133   | 5.199     | 7.399  | 2.200 | 1.137 | 18.542 | 0.656 |

COMPLETELY BREAST FED CHILDREN'S MEAN TRICEPS SKINFOLD THICKNESS(MM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>***** | NUMBER | M E A N | R A N G E |        |       | S. D  | C. V.  | S. E. |
|-----------------------|--------|---------|-----------|--------|-------|-------|--------|-------|
|                       |        |         | M I N.    | M A X. | VAL.  |       |        |       |
| F E M A L E S         |        |         |           |        |       |       |        |       |
| 0 - 3                 | 37     | 5.405   | 2.400     | 10.000 | 7.599 | 1.734 | 32.096 | 0.285 |
| 3 - 6                 | 17     | 6.705   | 4.199     | 10.000 | 5.800 | 1.765 | 26.321 | 0.428 |
| 6 - 9                 | 22     | 7.213   | 4.800     | 11.000 | 6.199 | 1.733 | 24.027 | 0.369 |
| 9 - 12                | 18     | 7.305   | 4.000     | 9.500  | 5.499 | 1.614 | 22.093 | 0.380 |
| 12 - 15               | 16     | 6.562   | 5.199     | 9.800  | 4.600 | 1.460 | 22.262 | 0.365 |
| 15 - 18               | 4      | 7.449   | 6.800     | 8.000  | 1.200 | 0.550 | 7.392  | 0.275 |
| 18 - 21               | 4      | 6.349   | 6.000     | 6.800  | 0.800 | 0.341 | 5.378  | 0.170 |
| 21 - 24               | 2      | 5.400   | 4.400     | 6.400  | 2.000 | 1.414 | 26.189 | 0.999 |
| 24 - 27               | 1      | 4.800   | 4.800     | 4.800  | 0.000 | 0.000 | 0.000  | 0.000 |
| 27 - 30               | 1      | 6.800   | 6.800     | 6.800  | 0.000 | 0.000 | 0.000  | 0.000 |
| 30 - 33               | 2      | 7.899   | 5.800     | 10.000 | 4.199 | 2.969 | 37.592 | 2.099 |
| 33 - 36               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 36 - 39               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 39 - 42               | 1      | 6.400   | 6.400     | 6.400  | 0.000 | 0.000 | 0.000  | 0.000 |
| 42 - 45               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 45 - 48               | 1      | 5.199   | 5.199     | 5.199  | 0.000 | 0.000 | 0.000  | 0.000 |
| 48 - 51               | 1      | 7.399   | 7.399     | 7.399  | 0.000 | 0.000 | 0.000  | 0.000 |
| 51 - 54               | 1      | 4.800   | 4.800     | 4.800  | 0.000 | 0.000 | 0.000  | 0.000 |
| 54 - 57               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 57 - 60               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 60 - 63               | 1      | 4.400   | 4.400     | 4.400  | 0.000 | 0.000 | 0.000  | 0.000 |



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COMPLETELY BREAST FED CHILDREN'S MEAN BICEPS SKINFOLD THICKNESS(MM) BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M E A N | R A N G E |       |       | S.D.  | C.V.   | S.E.  |
|--------------|--------|---------|-----------|-------|-------|-------|--------|-------|
|              |        |         | MIN.      | MAX.  | VAL.  |       |        |       |
| -----        |        |         |           |       |       |       |        |       |
| M A L E S    |        |         |           |       |       |       |        |       |
| 0 - 3        | 32     | 4.174   | 2.800     | 6.199 | 3.399 | 0.933 | 22.361 | 0.165 |
| 3 - 6        | 18     | 3.811   | 3.000     | 5.600 | 2.600 | 0.680 | 17.861 | 0.160 |
| 6 - 9        | 37     | 4.451   | 2.400     | 8.700 | 5.800 | 1.179 | 26.489 | 0.193 |
| 9 - 12       | 20     | 3.859   | 2.000     | 5.600 | 3.599 | 0.889 | 23.055 | 0.198 |
| 12 - 15      | 19     | 3.957   | 2.400     | 6.199 | 3.799 | 0.937 | 23.676 | 0.214 |
| 15 - 18      | 10     | 4.179   | 2.599     | 7.399 | 4.800 | 1.538 | 36.817 | 0.486 |
| 18 - 21      | 3      | 3.933   | 3.000     | 5.000 | 1.999 | 1.006 | 25.592 | 0.581 |
| 21 - 24      | 2      | 4.300   | 4.000     | 4.600 | 0.600 | 0.424 | 9.866  | 0.299 |
| 24 - 27      | 1      | 5.000   | 5.000     | 5.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 27 - 30      | 0      | 0.000   | 0.000     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 30 - 33      | 1      | 4.400   | 4.400     | 4.400 | 0.000 | 0.000 | 0.000  | 0.000 |
| 33 - 36      | 0      | 0.000   | 0.000     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 36 - 39      | 0      | 0.000   | 0.000     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 39 - 42      | 0      | 0.000   | 0.000     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 42 - 45      | 0      | 0.000   | 0.000     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 45 - 48      | 0      | 0.000   | 0.000     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 48 - 51      | 0      | 0.000   | 0.000     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 51 - 54      | 0      | 0.000   | 0.000     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 54 - 57      | 0      | 0.000   | 0.000     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 57 - 60      | 0      | 0.000   | 0.000     | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 60 - 63      | 3      | 4.199   | 3.000     | 5.400 | 2.600 | 1.199 | 28.571 | 0.692 |

COMPLETELY BREAST FED CHILDREN'S MEAN BICEPS SKINFOLD THICKNESS(MM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M E A N | R A N G E |        | S . D | C . V . | S . E . |
|--------------|--------|---------|-----------|--------|-------|---------|---------|
|              |        |         | MIN.      | MAX.   |       |         |         |
| 0 - 3        | 37     | 3.721   | 2.200     | 6.199  | 0.984 | 26.442  | 0.161   |
| 3 - 6        | 17     | 4.388   | 2.800     | 7.600  | 1.209 | 27.557  | 0.293   |
| 6 - 9        | 22     | 4.609   | 3.400     | 7.199  | 1.005 | 21.818  | 0.214   |
| 9 - 12       | 18     | 4.899   | 3.000     | 10.200 | 1.594 | 32.540  | 0.375   |
| 12 - 15      | 16     | 4.524   | 3.599     | 5.400  | 0.672 | 14.868  | 0.168   |
| 15 - 18      | 4      | 5.099   | 4.000     | 6.000  | 0.959 | 18.807  | 0.479   |
| 18 - 21      | 4      | 3.199   | 2.599     | 3.800  | 0.516 | 16.137  | 0.258   |
| 21 - 24      | 2      | 4.599   | 3.000     | 6.199  | 2.262 | 49.190  | 1.599   |
| 24 - 27      | 1      | 3.400   | 3.400     | 3.400  | 0.000 | 0.000   | 0.000   |
| 27 - 30      | 1      | 5.000   | 5.000     | 5.000  | 0.000 | 0.000   | 0.000   |
| 30 - 33      | 2      | 6.199   | 4.000     | 8.399  | 3.111 | 50.181  | 2.199   |
| 33 - 36      | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000   | 0.000   |
| 36 - 39      | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000   | 0.000   |
| 39 - 42      | 1      | 2.200   | 2.200     | 2.200  | 0.000 | 0.000   | 0.000   |
| 42 - 45      | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000   | 0.000   |
| 45 - 48      | 1      | 3.200   | 3.200     | 3.200  | 0.000 | 0.000   | 0.000   |
| 48 - 51      | 1      | 3.400   | 3.400     | 3.400  | 0.000 | 0.000   | 0.000   |
| 51 - 54      | 1      | 3.800   | 3.800     | 3.800  | 0.000 | 0.000   | 0.000   |
| 54 - 57      | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000   | 0.000   |
| 57 - 60      | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000   | 0.000   |
| 60 - 63      | 1      | 2.000   | 2.000     | 2.000  | 0.000 | 0.000   | 0.000   |

F E M A L E S

COMPLETELY BREAST FED CHILDREN'S MEAN SURAILIAC SKINFOLD THICKNESS(MM) BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>===== | NUMBER | M E A N | R A N G E |        |       | S.D   | C.V.   | S.E.  |
|-----------------------|--------|---------|-----------|--------|-------|-------|--------|-------|
|                       |        |         | MIN.      | MAX.   | VAL.  |       |        |       |
| M A L E S             |        |         |           |        |       |       |        |       |
| 0 - 3                 | 32     | 5.337   | 3.599     | 8.800  | 5.200 | 1.308 | 24.514 | 0.231 |
| 3 - 6                 | 18     | 5.155   | 3.400     | 8.000  | 4.600 | 1.039 | 20.160 | 0.244 |
| 6 - 9                 | 37     | 5.781   | 2.800     | 11.000 | 8.199 | 1.607 | 27.801 | 0.264 |
| 9 - 12                | 20     | 5.319   | 3.200     | 7.399  | 4.199 | 1.219 | 22.929 | 0.272 |
| 12 - 15               | 19     | 5.036   | 3.200     | 8.500  | 5.299 | 1.455 | 28.901 | 0.333 |
| 15 - 18               | 10     | 4.509   | 3.000     | 6.800  | 3.800 | 1.069 | 23.707 | 0.338 |
| 18 - 21               | 3      | 5.266   | 3.800     | 6.400  | 2.600 | 1.331 | 25.284 | 0.768 |
| 21 - 24               | 2      | 5.300   | 4.199     | 6.400  | 2.200 | 1.555 | 29.351 | 1.099 |
| 24 - 27               | 1      | 7.399   | 7.399     | 7.399  | 0.000 | 0.000 | 0.000  | 0.000 |
| 27 - 30               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 30 - 33               | 1      | 5.199   | 5.199     | 5.199  | 0.000 | 0.000 | 0.000  | 0.000 |
| 33 - 36               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 36 - 39               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 39 - 42               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 42 - 45               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 45 - 48               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 48 - 51               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 51 - 54               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 54 - 57               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 57 - 60               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 60 - 63               | 3      | 4.533   | 3.000     | 5.400  | 2.400 | 1.331 | 29.374 | 0.768 |

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COMPLETELY BREAST FED CHILDREN'S MEAN SUBCUTANEOUS SKINFOLD THICKNESS(MM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>***** | NUMBER | M E A N | R A N G E |        | S. D. | C. V. | S. E.  |       |
|-----------------------|--------|---------|-----------|--------|-------|-------|--------|-------|
|                       |        |         | MIN.      | MAX.   |       |       |        |       |
| F E M A L E S         |        |         |           |        |       |       |        |       |
| 0 - 3                 | 37     | 5.148   | 2.800     | 9.000  | 6.199 | 1.516 | 29.461 | 0.249 |
| 3 - 6                 | 17     | 6.011   | 3.400     | 9.000  | 5.599 | 1.504 | 25.019 | 0.364 |
| 6 - 9                 | 22     | 5.916   | 4.199     | 8.000  | 3.800 | 1.074 | 17.253 | 0.218 |
| 9 - 12                | 18     | 6.072   | 4.199     | 9.800  | 5.600 | 1.454 | 23.950 | 0.342 |
| 12 - 15               | 16     | 5.449   | 1.599     | 7.199  | 3.799 | 0.928 | 17.029 | 0.232 |
| 15 - 18               | 4      | 5.449   | 4.800     | 6.199  | 1.399 | 0.734 | 13.852 | 0.377 |
| 18 - 21               | 4      | 4.679   | 3.800     | 6.000  | 2.199 | 0.959 | 20.407 | 0.479 |
| 21 - 24               | 2      | 5.099   | 5.000     | 5.199  | 0.199 | 0.141 | 2.772  | 0.099 |
| 24 - 27               | 1      | 4.800   | 4.800     | 4.800  | 0.000 | 0.000 | 0.000  | 0.000 |
| 27 - 30               | 1      | 5.000   | 5.000     | 5.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 30 - 33               | 2      | 7.799   | 5.199     | 10.199 | 5.199 | 3.678 | 47.140 | 2.599 |
| 33 - 36               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 36 - 39               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 39 - 42               | 1      | 4.199   | 4.199     | 4.199  | 0.000 | 0.000 | 0.000  | 0.000 |
| 42 - 45               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 45 - 48               | 1      | 3.800   | 3.800     | 3.800  | 0.000 | 0.000 | 0.000  | 0.000 |
| 48 - 51               | 1      | 5.400   | 5.400     | 5.400  | 0.000 | 0.000 | 0.000  | 0.000 |
| 51 - 54               | 1      | 3.000   | 3.000     | 3.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 54 - 57               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 57 - 60               | 0      | 0.000   | 0.000     | 0.000  | 0.000 | 0.000 | 0.000  | 0.000 |
| 60 - 63               | 1      | 3.599   | 3.599     | 3.599  | 0.000 | 0.000 | 0.000  | 0.000 |

## COMPLETELY BREASTFED CH

| AGE (MONTHS) | NUMBER | M E A N |
|--------------|--------|---------|
| -----        | -----  | -----   |
| 0 - 3        | 32     | 5.624   |
| 3 - 6        | 18     | 6.055   |
| 6 - 9        | 37     | 6.078   |
| 9 - 12       | 20     | 5.334   |
| 12 - 15      | 19     | 5.099   |
| 15 - 18      | 10     | 5.099   |
| 18 - 21      | 3      | 6.199   |
| 21 - 24      | 2      | 5.899   |
| 24 - 27      | 1      | 12.200  |
| 27 - 30      | 0      | 0.000   |
| 30 - 33      | 1      | 6.400   |
| 33 - 36      | 0      | 0.000   |
| 36 - 39      | 0      | 0.000   |
| 39 - 42      | 0      | 0.000   |
| 42 - 45      | 0      | 0.000   |
| 45 - 48      | 0      | 0.000   |
| 48 - 51      | 0      | 0.000   |
| 51 - 54      | 0      | 0.000   |
| 54 - 57      | 0      | 0.000   |
| 57 - 60      | 0      | 0.000   |
| 60 - 63      | 3      | 6.666   |

CHILDREN'S MEAN SUBSCAPULAR SKINGUL4 TB9325555 \*44\* 2Y AGE AND SEX  
 CHILD GROWTH SURVEY - AMMAN

| MIN.      | RANGE<br>MAX. | VAL.  | S.D.  | C.V.   | S.E.  |
|-----------|---------------|-------|-------|--------|-------|
| M A L E S |               |       |       |        |       |
| 3.200     | 9.600         | 6.399 | 1.767 | 31.424 | 0.312 |
| 3.800     | 8.800         | 5.000 | 1.518 | 25.071 | 0.357 |
| 2.800     | 11.000        | 8.199 | 1.785 | 29.371 | 0.293 |
| 2.500     | 8.400         | 6.099 | 1.658 | 31.082 | 0.370 |
| 3.400     | 8.000         | 4.600 | 1.076 | 21.108 | 0.246 |
| 4.000     | 7.199         | 3.199 | 1.189 | 23.328 | 0.376 |
| 4.000     | 9.399         | 5.399 | 2.835 | 45.733 | 1.637 |
| 4.800     | 7.000         | 2.200 | 1.555 | 26.366 | 1.099 |
| 12.200    | 12.200        | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 6.400     | 6.400         | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 0.000     | 0.000         | 0.000 | 0.000 | 0.000  | 0.000 |
| 2.800     | 9.800         | 7.000 | 3.557 | 53.357 | 2.053 |

18  
COMPLETELY BREASTFED CHILDREN'S MEAN SUBSCAPULAR SKINFOLD THICKNESS '44' 2Y AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>===== | NUMBER | M E A N | R A N G E |        |        | S. D. | C. V.  | S. E. |
|-----------------------|--------|---------|-----------|--------|--------|-------|--------|-------|
|                       |        |         | MIN.      | MAX.   | VAL.   |       |        |       |
| F E M A L E S         |        |         |           |        |        |       |        |       |
| 0 - 3                 | 37     | 6.745   | 3.200     | 12.000 | 8.799  | 2.540 | 37.661 | 0.417 |
| 3 - 6                 | 17     | 7.847   | 3.400     | 14.399 | 11.000 | 2.989 | 38.098 | 0.725 |
| 6 - 9                 | 22     | 6.940   | 4.199     | 10.500 | 6.300  | 1.528 | 22.019 | 0.325 |
| 9 - 12                | 18     | 6.488   | 3.000     | 10.399 | 7.399  | 2.158 | 33.267 | 0.508 |
| 12 - 15               | 16     | 6.724   | 4.000     | 10.000 | 5.999  | 1.665 | 24.760 | 0.416 |
| 15 - 18               | 4      | 7.099   | 4.400     | 9.399  | 4.999  | 2.055 | 28.956 | 1.027 |
| 18 - 21               | 4      | 5.849   | 3.599     | 8.800  | 5.200  | 2.660 | 45.473 | 1.330 |
| 21 - 24               | 2      | 4.199   | 3.400     | 5.000  | 1.599  | 1.131 | 26.937 | 0.199 |
| 24 - 27               | 1      | 4.800   | 4.800     | 4.800  | 0.000  | 0.000 | 0.000  | 0.000 |
| 27 - 30               | 1      | 8.800   | 8.800     | 8.800  | 0.000  | 0.000 | 0.000  | 0.000 |
| 30 - 33               | 2      | 9.100   | 7.399     | 10.800 | 3.400  | 2.404 | 26.419 | 1.700 |
| 33 - 36               | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 36 - 39               | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 39 - 42               | 1      | 5.000   | 5.000     | 5.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 42 - 45               | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 45 - 48               | 1      | 3.599   | 3.599     | 3.599  | 0.000  | 0.000 | 0.000  | 0.000 |
| 48 - 51               | 1      | 5.400   | 5.400     | 5.400  | 0.000  | 0.000 | 0.000  | 0.000 |
| 51 - 54               | 1      | 3.000   | 3.000     | 3.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 54 - 57               | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 57 - 60               | 0      | 0.000   | 0.000     | 0.000  | 0.000  | 0.000 | 0.000  | 0.000 |
| 60 - 63               | 1      | 3.200   | 3.200     | 3.200  | 0.000  | 0.000 | 0.000  | 0.000 |

## COMPLETELY WEANED CHILDREN'S WEIGHT (KG) BY AGE AND SEX

## CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M E A N | R A N G E |        |        | S.D   | C.V.   | S.E.  |
|--------------|--------|---------|-----------|--------|--------|-------|--------|-------|
|              |        |         | MIN.      | MAX.   | VAL.   |       |        |       |
| M A L E S    |        |         |           |        |        |       |        |       |
| 0 - 3        | 23     | 9.292   | 3.250     | 9.700  | 6.449  | 1.334 | 25.210 | 0.278 |
| 3 - 6        | 40     | 6.342   | 4.000     | 10.500 | 6.499  | 1.411 | 22.256 | 0.223 |
| 6 - 9        | 54     | 7.495   | 3.099     | 10.200 | 7.100  | 1.413 | 18.853 | 0.192 |
| 9 - 12       | 58     | 8.464   | 4.400     | 11.450 | 7.050  | 1.263 | 14.926 | 0.165 |
| 12 - 15      | 64     | 9.399   | 6.149     | 11.700 | 5.550  | 1.207 | 12.850 | 0.150 |
| 15 - 18      | 75     | 9.559   | 6.149     | 12.600 | 6.450  | 1.455 | 15.224 | 0.168 |
| 18 - 21      | 81     | 10.529  | 6.760     | 16.430 | 9.669  | 1.472 | 13.986 | 0.163 |
| 21 - 24      | 90     | 10.769  | 5.350     | 13.750 | 8.399  | 1.313 | 12.199 | 0.138 |
| 24 - 27      | 73     | 11.185  | 8.050     | 13.670 | 5.619  | 1.112 | 9.949  | 0.130 |
| 27 - 30      | 91     | 11.783  | 8.850     | 14.500 | 5.650  | 1.161 | 9.852  | 0.121 |
| 30 - 33      | 81     | 12.401  | 9.000     | 15.299 | 6.300  | 1.278 | 10.311 | 0.142 |
| 33 - 36      | 91     | 12.692  | 8.600     | 15.700 | 7.100  | 1.393 | 10.977 | 0.146 |
| 36 - 39      | 106    | 13.291  | 9.380     | 18.600 | 9.220  | 1.731 | 13.027 | 0.168 |
| 39 - 42      | 78     | 13.610  | 10.600    | 18.750 | 8.149  | 1.728 | 12.701 | 0.195 |
| 42 - 45      | 71     | 14.509  | 10.450    | 18.600 | 8.150  | 1.580 | 10.892 | 0.187 |
| 45 - 48      | 95     | 14.845  | 9.600     | 19.000 | 9.399  | 1.556 | 10.486 | 0.159 |
| 48 - 51      | 80     | 14.842  | 10.899    | 21.900 | 11.000 | 1.736 | 11.700 | 0.194 |
| 51 - 54      | 90     | 15.371  | 10.350    | 21.100 | 10.750 | 1.759 | 11.443 | 0.185 |
| 54 - 57      | 62     | 15.464  | 10.600    | 20.750 | 10.149 | 1.746 | 11.291 | 0.221 |
| 57 - 60      | 65     | 16.371  | 10.750    | 22.000 | 11.250 | 1.868 | 11.412 | 0.231 |
| 60 - 63      | 135    | 16.725  | 11.950    | 22.400 | 10.450 | 1.973 | 11.799 | 0.169 |



14  
 COMPLETELY WEANED CHILDREN'S WEIGHT (KG) BY AGE AND SEX  
 CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)  | NUMBER | M E A N | R A N G E |                    |        | S.D.  | C.V.   | S.E.  |
|---------------|--------|---------|-----------|--------------------|--------|-------|--------|-------|
|               |        |         | MIN.      | MAX.               | VAL.   |       |        |       |
| F E M A L E S |        |         |           |                    |        |       |        |       |
| 0 - 3         | 26     | 4.289   | 2.800     | 5.550              | 2.750  | 0.645 | 15.053 | 0.126 |
| 3 - 6         | 52     | 6.301   | 3.099     | 9.399              | 6.299  | 1.258 | 19.966 | 0.174 |
| 6 - 9         | 43     | 7.414   | 4.449     | 11.200             | 6.750  | 1.218 | 16.436 | 0.185 |
| 9 - 12        | 50     | 7.977   | 5.225     | 9.700              | 4.475  | 0.858 | 10.764 | 0.121 |
| 12 - 15       | 67     | 8.427   | 5.699     | 10.780             | 5.080  | 1.204 | 14.295 | 0.147 |
| 15 - 18       | 87     | 9.179   | 5.199     | 14.54 <sup>n</sup> | 9.350  | 1.307 | 14.247 | 0.140 |
| 18 - 21       | 64     | 9.647   | 6.500     | 11.950             | 5.450  | 1.190 | 12.345 | 0.148 |
| 21 - 24       | 80     | 10.367  | 6.800     | 15.750             | 8.950  | 1.613 | 15.563 | 0.180 |
| 24 - 27       | 114    | 10.862  | 7.000     | 14.000             | 7.000  | 1.291 | 11.891 | 0.120 |
| 27 - 30       | 68     | 11.412  | 7.500     | 14.299             | 6.799  | 1.282 | 11.241 | 0.155 |
| 30 - 33       | 88     | 12.024  | 8.800     | 15.000             | 6.199  | 1.260 | 10.483 | 0.134 |
| 33 - 36       | 80     | 12.310  | 6.550     | 17.600             | 11.050 | 1.620 | 13.160 | 0.181 |
| 36 - 39       | 93     | 12.882  | 10.300    | 16.500             | 6.199  | 1.307 | 10.146 | 0.135 |
| 39 - 42       | 69     | 13.448  | 10.000    | 18.400             | 8.400  | 1.669 | 12.417 | 0.201 |
| 42 - 45       | 73     | 14.014  | 10.250    | 18.250             | 7.999  | 1.624 | 11.588 | 0.190 |
| 45 - 48       | 92     | 14.204  | 9.800     | 17.700             | 7.899  | 1.597 | 11.248 | 0.166 |
| 48 - 51       | 85     | 14.445  | 10.600    | 19.700             | 9.100  | 1.617 | 11.200 | 0.175 |
| 51 - 54       | 55     | 14.675  | 9.540     | 18.650             | 9.110  | 1.748 | 11.915 | 0.235 |
| 54 - 57       | 40     | 15.235  | 11.899    | 20.549             | 8.649  | 1.649 | 10.824 | 0.260 |
| 57 - 60       | 67     | 15.686  | 12.000    | 21.000             | 9.000  | 1.912 | 12.194 | 0.233 |
| 60 - 63       | 157    | 16.185  | 6.100     | 23.200             | 17.099 | 2.203 | 13.615 | 0.175 |

COMPLETELY WEANED CHILDREN'S HEIGHT (CM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>***** | NUMBER | M E A N | R A N G E |         |        | S.D.  | C.V.  | S.E.  |
|-----------------------|--------|---------|-----------|---------|--------|-------|-------|-------|
|                       |        |         | MIN.      | MAX.    | VAL.   |       |       |       |
| M A L E S             |        |         |           |         |        |       |       |       |
| 0 - 3                 | 23     | 54.121  | 51.099    | 74.199  | 23.099 | 4.989 | 8.584 | 1.040 |
| 3 - 6                 | 40     | 63.762  | 53.699    | 79.199  | 25.499 | 4.801 | 7.530 | 0.759 |
| 6 - 9                 | 54     | 67.338  | 55.699    | 91.000  | 35.300 | 4.840 | 7.187 | 0.658 |
| 9 - 12                | 58     | 70.103  | 59.199    | 76.900  | 17.700 | 3.046 | 4.346 | 0.400 |
| 12 - 15               | 63     | 74.069  | 65.000    | 80.900  | 15.900 | 3.504 | 4.731 | 0.441 |
| 15 - 18               | 75     | 76.604  | 63.400    | 84.400  | 21.000 | 3.732 | 4.872 | 0.431 |
| 18 - 21               | 81     | 78.117  | 39.500    | 96.100  | 56.600 | 6.879 | 8.806 | 0.764 |
| 21 - 24               | 88     | 80.839  | 71.199    | 90.000  | 18.800 | 4.032 | 4.988 | 0.429 |
| 24 - 27               | 73     | 81.858  | 71.000    | 92.000  | 21.000 | 4.207 | 5.139 | 0.492 |
| 27 - 30               | 90     | 83.332  | 34.300    | 95.000  | 60.699 | 7.124 | 8.550 | 0.751 |
| 30 - 33               | 82     | 86.001  | 48.099    | 98.900  | 50.800 | 6.215 | 7.227 | 0.686 |
| 33 - 36               | 92     | 87.786  | 43.000    | 103.000 | 60.000 | 6.550 | 7.461 | 0.682 |
| 36 - 39               | 105    | 89.460  | 72.300    | 99.000  | 26.700 | 4.620 | 5.164 | 0.450 |
| 39 - 42               | 78     | 91.225  | 79.000    | 103.500 | 24.500 | 4.397 | 4.820 | 0.497 |
| 42 - 45               | 71     | 94.201  | 83.400    | 111.500 | 28.099 | 4.532 | 4.811 | 0.537 |
| 45 - 48               | 95     | 96.321  | 72.600    | 109.100 | 36.500 | 4.341 | 4.507 | 0.445 |
| 48 - 51               | 80     | 96.512  | 67.100    | 116.300 | 43.200 | 5.094 | 5.278 | 0.567 |
| 51 - 54               | 90     | 97.882  | 76.500    | 111.899 | 35.400 | 5.226 | 5.339 | 0.550 |
| 54 - 57               | 61     | 100.665 | 91.199    | 114.300 | 23.100 | 4.083 | 4.056 | 0.522 |
| 57 - 60               | 65     | 102.874 | 94.900    | 114.899 | 19.999 | 4.124 | 4.010 | 0.511 |
| 60 - 63               | 135    | 102.886 | 40.099    | 123.300 | 83.200 | 8.825 | 8.577 | 0.759 |

## COMPLETELY WEANED CHILDREN'S HEIGHT (CM) BY AGE AND SEX

## CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>***** | NUMBER | M E A N | R A N G E |         |        | S.D.  | C.V.  | S.E.  |
|-----------------------|--------|---------|-----------|---------|--------|-------|-------|-------|
|                       |        |         | M I N.    | M A X.  | V A L. |       |       |       |
| F E M A L E S         |        |         |           |         |        |       |       |       |
| 0 - 3                 | 26     | 54.511  | 49.400    | 60.099  | 20.700 | 3.932 | 7.214 | 0.771 |
| 3 - 6                 | 52     | 61.796  | 55.199    | 77.300  | 22.100 | 3.685 | 5.963 | 0.511 |
| 6 - 9                 | 43     | 66.253  | 56.000    | 73.199  | 17.199 | 3.994 | 6.029 | 0.609 |
| 9 - 12                | 50     | 69.466  | 63.099    | 76.400  | 13.300 | 2.540 | 3.659 | 0.359 |
| 12 - 15               | 66     | 72.459  | 63.000    | 94.400  | 31.400 | 5.044 | 6.961 | 0.620 |
| 15 - 18               | 68     | 74.537  | 65.500    | 84.100  | 18.600 | 4.046 | 5.428 | 0.431 |
| 18 - 21               | 64     | 76.664  | 65.300    | 86.400  | 51.100 | 6.169 | 8.047 | 0.771 |
| 21 - 24               | 78     | 79.660  | 65.800    | 101.000 | 35.200 | 4.513 | 5.666 | 0.511 |
| 24 - 27               | 113    | 81.644  | 54.300    | 90.300  | 36.000 | 4.481 | 5.529 | 0.421 |
| 27 - 30               | 68     | 83.386  | 68.800    | 94.100  | 25.300 | 4.409 | 5.288 | 0.534 |
| 30 - 33               | 87     | 85.842  | 70.800    | 101.900 | 31.100 | 4.365 | 5.085 | 0.468 |
| 33 - 36               | 80     | 86.571  | 54.900    | 99.199  | 44.299 | 5.863 | 6.777 | 0.655 |
| 36 - 39               | 93     | 89.348  | 80.600    | 109.100 | 28.500 | 4.435 | 4.964 | 0.459 |
| 39 - 42               | 69     | 91.749  | 72.699    | 109.000 | 36.300 | 5.488 | 5.981 | 0.660 |
| 42 - 45               | 73     | 93.672  | 60.800    | 109.600 | 48.800 | 6.455 | 6.891 | 0.755 |
| 45 - 48               | 92     | 94.898  | 82.900    | 104.399 | 21.499 | 4.599 | 4.847 | 0.479 |
| 48 - 51               | 85     | 95.429  | 82.800    | 107.100 | 24.300 | 4.176 | 4.377 | 0.453 |
| 51 - 54               | 55     | 97.603  | 78.300    | 112.199 | 33.900 | 5.572 | 5.709 | 0.751 |
| 54 - 57               | 40     | 99.102  | 91.400    | 112.600 | 21.200 | 4.379 | 4.418 | 0.692 |
| 57 - 60               | 67     | 100.395 | 60.900    | 112.500 | 51.599 | 6.802 | 6.775 | 0.831 |
| 60 - 63               | 157    | 102.982 | 84.699    | 120.300 | 55.600 | 6.810 | 6.613 | 0.543 |

COMPLETED WEANED CHILDREN'S HEAD CIRCUMFERENCE (CM) BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | MEAN   | RANGE  |        | VAL.   | S.D.  | C.V.  | S.E.  |
|--------------|--------|--------|--------|--------|--------|-------|-------|-------|
|              |        |        | MIN.   | MAX.   |        |       |       |       |
| M A L E S    |        |        |        |        |        |       |       |       |
| 0 - 3        | 23     | 38.895 | 34.500 | 45.500 | 11.000 | 2.557 | 6.575 | 0.533 |
| 3 - 6        | 40     | 41.734 | 37.800 | 51.500 | 13.699 | 2.692 | 6.452 | 0.425 |
| 6 - 9        | 55     | 43.287 | 40.000 | 49.000 | 9.000  | 1.643 | 4.258 | 0.248 |
| 9 - 12       | 58     | 44.636 | 39.000 | 49.000 | 10.000 | 2.057 | 4.608 | 0.270 |
| 12 - 15      | 64     | 45.484 | 40.500 | 49.800 | 9.300  | 1.768 | 3.888 | 0.221 |
| 15 - 18      | 75     | 45.831 | 42.200 | 49.300 | 7.099  | 1.554 | 3.391 | 0.179 |
| 18 - 21      | 82     | 46.359 | 41.200 | 50.500 | 9.299  | 1.542 | 3.328 | 0.170 |
| 21 - 24      | 90     | 46.932 | 42.000 | 50.200 | 8.200  | 1.567 | 3.340 | 0.165 |
| 24 - 27      | 73     | 46.793 | 41.000 | 50.500 | 9.500  | 1.461 | 3.122 | 0.171 |
| 27 - 30      | 91     | 47.227 | 42.800 | 50.500 | 7.699  | 1.416 | 2.999 | 0.148 |
| 30 - 33      | 82     | 47.596 | 41.800 | 50.300 | 8.500  | 1.338 | 2.812 | 0.147 |
| 33 - 36      | 92     | 47.805 | 42.200 | 52.000 | 9.799  | 1.739 | 3.639 | 0.181 |
| 36 - 39      | 106    | 48.263 | 45.300 | 51.800 | 6.500  | 1.231 | 2.550 | 0.119 |
| 39 - 42      | 78     | 48.105 | 41.000 | 52.000 | 11.000 | 1.791 | 3.723 | 0.202 |
| 42 - 45      | 71     | 48.907 | 45.500 | 51.500 | 6.000  | 1.241 | 2.537 | 0.147 |
| 45 - 48      | 95     | 48.856 | 44.500 | 51.400 | 6.900  | 1.295 | 2.652 | 0.132 |
| 48 - 51      | 80     | 48.688 | 46.000 | 51.599 | 5.599  | 1.270 | 2.608 | 0.142 |
| 51 - 54      | 90     | 49.087 | 45.599 | 52.000 | 6.400  | 1.243 | 2.532 | 0.131 |
| 54 - 57      | 62     | 49.051 | 46.500 | 52.000 | 5.500  | 1.404 | 2.863 | 0.178 |
| 57 - 60      | 65     | 49.336 | 45.599 | 52.000 | 6.400  | 1.337 | 2.711 | 0.165 |
| 60 - 63      | 134    | 49.499 | 45.200 | 52.699 | 7.499  | 1.469 | 3.009 | 0.128 |



## COMPLETELY WEANED CHILDREN

| AGE (MONTHS)<br>***** | NUMBER | M E A N |
|-----------------------|--------|---------|
| 0 - 3                 | 23     | 12.021  |
| 3 - 6                 | 40     | 12.472  |
| 6 - 9                 | 55     | 13.767  |
| 9 - 12                | 58     | 13.874  |
| 12 - 15               | 64     | 14.181  |
| 15 - 18               | 74     | 13.866  |
| 18 - 21               | 82     | 14.326  |
| 21 - 24               | 90     | 14.327  |
| 24 - 27               | 73     | 14.521  |
| 27 - 30               | 91     | 14.696  |
| 30 - 33               | 82     | 14.779  |
| 33 - 36               | 92     | 14.979  |
| 36 - 39               | 106    | 15.058  |
| 39 - 42               | 76     | 15.156  |
| 42 - 45               | 71     | 15.425  |
| 45 - 48               | 95     | 15.410  |
| 48 - 51               | 80     | 15.156  |
| 51 - 54               | 90     | 15.543  |
| 54 - 57               | 61     | 15.419  |
| 57 - 60               | 65     | 15.564  |
| 60 - 63               | 133    | 15.531  |

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INFANTS' ARM CIRCUMFERENCE (CM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| MIN.        | RANGE<br>MAX. | VAL.  | S.D.  | L.V.   | S.E.  |
|-------------|---------------|-------|-------|--------|-------|
| M A L E ' S |               |       |       |        |       |
| 9.000       | 15.000        | 6.000 | 1.496 | 12.452 | 0.312 |
| 9.399       | 15.200        | 5.800 | 1.578 | 12.656 | 0.249 |
| 11.000      | 16.700        | 5.699 | 1.424 | 10.344 | 0.192 |
| 10.500      | 17.000        | 6.499 | 1.304 | 9.837  | 0.179 |
| 11.399      | 18.500        | 7.099 | 1.392 | 9.819  | 0.174 |
| 10.500      | 17.000        | 6.499 | 1.275 | 9.197  | 0.148 |
| 11.500      | 16.600        | 5.100 | 1.152 | 8.043  | 0.127 |
| 11.200      | 17.500        | 6.299 | 1.038 | 7.250  | 0.109 |
| 12.000      | 16.600        | 4.600 | 0.950 | 6.544  | 0.111 |
| 12.000      | 17.500        | 5.499 | 1.162 | 7.911  | 0.121 |
| 11.600      | 17.200        | 5.599 | 1.003 | 7.331  | 0.119 |
| 12.399      | 18.000        | 5.599 | 1.067 | 7.120  | 0.111 |
| 12.500      | 18.000        | 5.499 | 1.074 | 7.135  | 0.104 |
| 13.200      | 19.000        | 5.799 | 1.126 | 7.432  | 0.129 |
| 13.000      | 19.000        | 5.999 | 1.229 | 7.971  | 0.145 |
| 12.300      | 18.100        | 5.800 | 1.003 | 6.512  | 0.102 |
| 13.200      | 18.000        | 4.799 | 1.050 | 6.931  | 0.117 |
| 10.000      | 18.500        | 8.500 | 1.193 | 7.676  | 0.125 |
| 13.000      | 20.000        | 6.999 | 1.306 | 8.470  | 0.167 |
| 13.700      | 18.000        | 4.299 | 1.011 | 6.501  | 0.125 |
| 13.000      | 19.000        | 5.999 | 1.108 | 7.134  | 0.096 |

224  
COMPLETELY WEANED CHILDREN'S ARM CIRCUMFERENCE (CM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M E A N | R A N G E |        | S.D.  | C.V.   | S.E.  |
|--------------|--------|---------|-----------|--------|-------|--------|-------|
|              |        |         | MIN.      | MAX.   |       |        |       |
| 0 - 3        | 26     | 11.115  | 8.500     | 14.000 | 1.235 | 11.114 | 0.242 |
| 3 - 6        | 52     | 12.903  | 10.500    | 17.000 | 1.634 | 11.120 | 0.198 |
| 6 - 9        | 44     | 13.190  | 10.500    | 15.500 | 1.294 | 9.013  | 0.195 |
| 9 - 12       | 49     | 13.583  | 11.500    | 16.500 | 1.234 | 9.006  | 0.176 |
| 12 - 15      | 67     | 13.435  | 8.800     | 16.000 | 1.228 | 9.145  | 0.150 |
| 15 - 18      | 88     | 13.435  | 9.000     | 16.000 | 1.159 | 8.626  | 0.123 |
| 18 - 21      | 64     | 13.903  | 11.200    | 16.299 | 1.169 | 8.410  | 0.146 |
| 21 - 24      | 80     | 14.091  | 12.000    | 17.000 | 1.209 | 8.563  | 0.135 |
| 24 - 27      | 113    | 14.380  | 11.000    | 18.400 | 1.255 | 8.731  | 0.116 |
| 27 - 30      | 67     | 14.540  | 10.000    | 18.000 | 1.432 | 9.848  | 0.174 |
| 30 - 33      | 88     | 15.002  | 12.700    | 19.000 | 1.016 | 6.737  | 0.107 |
| 33 - 36      | 80     | 14.868  | 9.000     | 19.000 | 1.403 | 9.428  | 0.156 |
| 36 - 39      | 92     | 15.156  | 13.000    | 19.500 | 1.228 | 8.106  | 0.128 |
| 39 - 42      | 69     | 15.162  | 12.399    | 17.500 | 1.150 | 7.587  | 0.138 |
| 42 - 45      | 72     | 15.373  | 13.000    | 18.000 | 1.186 | 7.720  | 0.139 |
| 45 - 48      | 92     | 15.294  | 12.500    | 18.506 | 1.135 | 7.426  | 0.118 |
| 48 - 51      | 84     | 15.472  | 12.500    | 18.500 | 1.187 | 7.674  | 0.129 |
| 51 - 54      | 55     | 15.287  | 11.000    | 20.000 | 1.310 | 8.573  | 0.176 |
| 54 - 57      | 40     | 15.159  | 12.700    | 18.000 | 1.068 | 7.177  | 0.172 |
| 57 - 60      | 67     | 15.593  | 13.000    | 19.200 | 1.158 | 7.425  | 0.161 |
| 60 - 63      | 157    | 15.555  | 10.500    | 19.000 | 1.267 | 8.147  | 0.161 |

F E M A L E S



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COMPLETELY WEANED CHILDREN'S ARM CIRCUMFERENCE (CMI) BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)  | NUMBER | M E A N | R A N G E |        |        | S.D.  | C.V.   | S.E.  |
|---------------|--------|---------|-----------|--------|--------|-------|--------|-------|
|               |        |         | MIN.      | MAX.   | VAL.   |       |        |       |
| F E M A L E S |        |         |           |        |        |       |        |       |
| 0 - 3         | 26     | 11.115  | 8.500     | 14.000 | 5.500  | 1.235 | 11.114 | 0.242 |
| 3 - 6         | 52     | 12.903  | 10.500    | 17.000 | 6.499  | 1.434 | 11.120 | 0.198 |
| 6 - 9         | 44     | 13.190  | 10.500    | 15.500 | 5.000  | 1.294 | 9.813  | 0.195 |
| 9 - 12        | 49     | 13.583  | 11.500    | 16.500 | 4.999  | 1.234 | 9.086  | 0.176 |
| 12 - 15       | 67     | 13.435  | 8.800     | 16.000 | 7.199  | 1.228 | 9.145  | 0.150 |
| 15 - 18       | 88     | 13.435  | 9.000     | 16.000 | 7.000  | 1.159 | 8.626  | 0.123 |
| 18 - 21       | 64     | 13.903  | 11.200    | 16.299 | 5.099  | 1.169 | 8.410  | 0.146 |
| 21 - 24       | 80     | 14.091  | 12.000    | 17.000 | 4.999  | 1.209 | 8.583  | 0.135 |
| 24 - 27       | 113    | 14.380  | 11.000    | 18.400 | 7.400  | 1.255 | 8.731  | 0.116 |
| 27 - 30       | 67     | 14.540  | 10.000    | 18.000 | 7.999  | 1.432 | 9.848  | 0.174 |
| 30 - 33       | 88     | 15.002  | 12.700    | 19.000 | 6.299  | 1.010 | 6.737  | 0.107 |
| 33 - 36       | 80     | 14.888  | 9.000     | 19.000 | 10.000 | 1.403 | 9.428  | 0.156 |
| 36 - 39       | 92     | 15.156  | 13.000    | 19.500 | 6.499  | 1.228 | 8.108  | 0.128 |
| 39 - 42       | 69     | 15.162  | 12.399    | 17.500 | 5.099  | 1.150 | 7.587  | 0.138 |
| 42 - 45       | 72     | 15.373  | 13.000    | 18.000 | 4.999  | 1.166 | 7.720  | 0.139 |
| 45 - 48       | 92     | 15.294  | 12.500    | 18.500 | 5.999  | 1.135 | 7.426  | 0.118 |
| 48 - 51       | 84     | 15.472  | 12.500    | 18.500 | 5.999  | 1.187 | 7.674  | 0.129 |
| 51 - 54       | 55     | 15.287  | 11.000    | 20.000 | 9.000  | 1.310 | 8.573  | 0.176 |
| 54 - 57       | 40     | 15.159  | 12.700    | 18.000 | 5.299  | 1.088 | 7.177  | 0.172 |
| 57 - 60       | 67     | 15.599  | 13.000    | 19.200 | 6.199  | 1.158 | 7.425  | 0.141 |
| 60 - 63       | 157    | 15.555  | 10.500    | 19.000 | 8.500  | 1.267 | 8.147  | 0.101 |

## COMPLETELY WEANED CHILDREN'S MEAN TRICEPS SKINFOLD THICKNESS (MM) BY AGE AND SEX

## CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | MEAN  | MIN.  | RANGE<br>MAX. | VAL.   | S.D.  | C.V.   | S.E.  |
|--------------|--------|-------|-------|---------------|--------|-------|--------|-------|
| M A L E S    |        |       |       |               |        |       |        |       |
| 0 - 3        | 23     | 6.543 | 2.800 | 11.500        | 8.699  | 2.171 | 33.182 | 0.452 |
| 3 - 6        | 40     | 6.894 | 3.000 | 11.000        | 7.999  | 2.004 | 29.067 | 0.316 |
| 6 - 9        | 55     | 7.712 | 3.599 | 13.200        | 9.600  | 2.083 | 27.013 | 0.280 |
| 9 - 12       | 58     | 7.281 | 4.400 | 13.500        | 9.100  | 1.905 | 26.175 | 0.250 |
| 12 - 15      | 61     | 6.850 | 4.199 | 11.200        | 7.000  | 1.540 | 22.489 | 0.197 |
| 15 - 18      | 75     | 6.579 | 3.400 | 12.800        | 9.400  | 1.763 | 26.796 | 0.203 |
| 18 - 21      | 82     | 7.045 | 3.200 | 11.200        | 8.000  | 1.672 | 23.741 | 0.184 |
| 21 - 24      | 89     | 6.862 | 4.199 | 10.000        | 5.800  | 1.354 | 20.313 | 0.147 |
| 24 - 27      | 73     | 6.632 | 2.800 | 12.200        | 9.399  | 1.627 | 24.536 | 0.190 |
| 27 - 30      | 91     | 7.099 | 4.199 | 12.800        | 8.600  | 1.751 | 24.673 | 0.183 |
| 30 - 33      | 81     | 7.320 | 3.400 | 13.000        | 9.600  | 1.937 | 26.459 | 0.215 |
| 33 - 36      | 91     | 7.169 | 4.400 | 12.500        | 8.100  | 1.751 | 24.431 | 0.183 |
| 36 - 39      | 105    | 7.193 | 4.199 | 13.500        | 9.300  | 1.699 | 23.631 | 0.165 |
| 39 - 42      | 77     | 7.161 | 4.400 | 12.600        | 8.200  | 1.699 | 23.737 | 0.193 |
| 42 - 45      | 71     | 6.922 | 3.599 | 12.800        | 9.200  | 1.656 | 24.286 | 0.196 |
| 45 - 48      | 94     | 6.737 | 4.199 | 12.899        | 8.700  | 1.546 | 22.981 | 0.159 |
| 48 - 51      | 80     | 6.612 | 4.000 | 11.800        | 7.800  | 1.590 | 24.047 | 0.177 |
| 51 - 54      | 90     | 6.919 | 3.599 | 16.000        | 12.399 | 1.842 | 26.627 | 0.194 |
| 54 - 57      | 61     | 6.222 | 3.000 | 13.399        | 10.399 | 1.750 | 28.127 | 0.224 |
| 57 - 60      | 65     | 6.301 | 4.199 | 10.000        | 5.800  | 1.347 | 21.385 | 0.167 |
| 60 - 63      | 134    | 6.058 | 2.800 | 14.500        | 11.699 | 1.679 | 26.890 | 0.140 |

COMPLETELY WEANED CHILDREN'S MEAN TRICEPS SKINFOLD THICKNESS (MM) BY AGE AND SEX  
CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>..... | NUMBER | M E A N | R A N G E |        |        | S.D.  | C.V.   | S.E.  |
|-----------------------|--------|---------|-----------|--------|--------|-------|--------|-------|
|                       |        |         | MIN.      | MAX.   | VAL.   |       |        |       |
| F E M A L E S         |        |         |           |        |        |       |        |       |
| 0 - 3                 | 26     | 5.076   | 2.599     | 10.000 | 7.399  | 1.552 | 30.576 | 0.304 |
| 3 - 6                 | 52     | 7.715   | 4.000     | 13.500 | 9.500  | 2.332 | 30.234 | 0.323 |
| 6 - 9                 | 43     | 6.539   | 2.400     | 12.399 | 10.000 | 1.624 | 24.835 | 0.247 |
| 9 - 12                | 50     | 6.613   | 4.000     | 12.200 | 8.200  | 1.837 | 27.785 | 0.259 |
| 12 - 15               | 65     | 6.647   | 3.599     | 12.200 | 8.600  | 1.616 | 24.317 | 0.200 |
| 15 - 18               | 88     | 6.647   | 3.000     | 12.000 | 9.000  | 1.645 | 24.753 | 0.175 |
| 18 - 21               | 64     | 6.792   | 4.199     | 12.500 | 8.300  | 1.603 | 23.609 | 0.200 |
| 21 - 24               | 80     | 6.874   | 3.599     | 11.700 | 8.100  | 1.747 | 25.419 | 0.195 |
| 24 - 27               | 114    | 7.174   | 4.000     | 13.200 | 9.200  | 1.822 | 25.401 | 0.170 |
| 27 - 30               | 68     | 7.247   | 3.400     | 11.500 | 8.100  | 1.755 | 24.224 | 0.212 |
| 30 - 33               | 84     | 7.598   | 4.800     | 13.500 | 8.700  | 1.876 | 24.691 | 0.200 |
| 33 - 36               | 60     | 7.713   | 2.400     | 12.500 | 10.100 | 1.975 | 25.615 | 0.220 |
| 36 - 39               | 93     | 7.370   | 2.599     | 12.800 | 10.200 | 1.795 | 24.365 | 0.166 |
| 39 - 42               | 70     | 7.137   | 4.400     | 11.000 | 6.599  | 1.491 | 20.894 | 0.178 |
| 42 - 45               | 73     | 7.304   | 3.800     | 13.000 | 9.199  | 1.903 | 26.066 | 0.222 |
| 45 - 48               | 91     | 7.246   | 3.800     | 14.500 | 10.699 | 1.894 | 26.146 | 0.198 |
| 48 - 51               | 84     | 7.127   | 3.800     | 12.200 | 8.399  | 1.722 | 24.169 | 0.187 |
| 51 - 54               | 55     | 6.574   | 3.400     | 12.399 | 9.000  | 1.671 | 25.430 | 0.225 |
| 54 - 57               | 40     | 6.357   | 4.000     | 10.399 | 6.399  | 1.414 | 22.253 | 0.223 |
| 57 - 60               | 66     | 6.883   | 4.199     | 12.600 | 8.400  | 1.689 | 24.537 | 0.207 |
| 60 - 63               | 156    | 6.646   | 3.800     | 13.000 | 9.199  | 1.567 | 23.575 | 0.125 |

## COMPLETELY WEANED CHILDREN'S MEAN BICEPS SKINFOLD THICKNESS (MM) BY AGE AND SEX

## CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | MEAN  | RANGE |        | VAL.  | S.D.  | C.V.   | S.E.  |
|--------------|--------|-------|-------|--------|-------|-------|--------|-------|
| -----        |        |       | MIN.  | MAX.   |       |       |        |       |
| M A L E S    |        |       |       |        |       |       |        |       |
| 0 - 3        | 23     | 4.769 | 2.800 | 7.000  | 4.199 | 1.119 | 23.478 | 0.233 |
| 3 - 6        | 40     | 4.399 | 2.200 | 7.399  | 5.199 | 1.224 | 27.830 | 0.193 |
| 6 - 9        | 55     | 4.696 | 2.800 | 10.000 | 7.199 | 1.524 | 32.466 | 0.205 |
| 9 - 12       | 58     | 4.089 | 2.599 | 6.400  | 3.800 | 0.786 | 19.235 | 0.103 |
| 12 - 15      | 61     | 4.273 | 2.599 | 6.800  | 4.200 | 0.894 | 20.941 | 0.114 |
| 15 - 18      | 75     | 4.342 | 2.400 | 9.600  | 7.199 | 1.219 | 28.070 | 0.140 |
| 18 - 21      | 82     | 4.332 | 2.000 | 7.199  | 5.199 | 1.109 | 25.610 | 0.122 |
| 21 - 24      | 89     | 4.285 | 2.800 | 7.500  | 4.699 | 1.019 | 23.783 | 0.108 |
| 24 - 27      | 73     | 4.183 | 2.599 | 7.000  | 4.400 | 0.879 | 21.031 | 0.102 |
| 27 - 30      | 91     | 4.220 | 2.400 | 7.399  | 5.000 | 1.102 | 26.112 | 0.115 |
| 30 - 33      | 81     | 4.256 | 2.400 | 6.800  | 4.400 | 1.053 | 24.739 | 0.117 |
| 33 - 36      | 91     | 4.381 | 2.800 | 7.199  | 4.399 | 0.912 | 20.627 | 0.095 |
| 36 - 39      | 105    | 4.336 | 2.200 | 9.200  | 7.000 | 1.311 | 30.247 | 0.127 |
| 39 - 42      | 77     | 4.254 | 2.800 | 8.600  | 5.799 | 1.105 | 25.979 | 0.125 |
| 42 - 45      | 71     | 4.050 | 2.400 | 7.399  | 5.000 | 0.847 | 20.926 | 0.100 |
| 45 - 48      | 94     | 3.986 | 2.200 | 8.000  | 5.800 | 1.096 | 27.519 | 0.113 |
| 48 - 51      | 80     | 3.891 | 2.400 | 8.200  | 5.800 | 1.028 | 26.436 | 0.115 |
| 51 - 54      | 90     | 3.922 | 2.400 | 8.000  | 5.600 | 0.957 | 24.418 | 0.100 |
| 54 - 57      | 61     | 3.859 | 2.000 | 7.000  | 5.000 | 0.986 | 25.558 | 0.126 |
| 57 - 60      | 65     | 3.523 | 2.200 | 5.800  | 3.599 | 0.800 | 22.728 | 0.099 |
| 60 - 63      | 134    | 3.646 | 2.000 | 6.800  | 4.800 | 0.866 | 23.772 | 0.074 |

COMPLETELY WEANED CHILDREN'S MEAN BICEPS SKINFOLD THICKNESS (MM) BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)  | NUMBER | M E A N | R A N G E |       |       | S.D   | C.V.   | S.E.  |
|---------------|--------|---------|-----------|-------|-------|-------|--------|-------|
|               |        |         | MIN.      | MAX.  | VAL.  |       |        |       |
| F E M A L E S |        |         |           |       |       |       |        |       |
| 0 - 3         | 26     | 3.692   | 2.000     | 6.000 | 3.999 | 0.891 | 24.138 | 0.174 |
| 3 - 6         | 52     | 4.536   | 2.800     | 7.399 | 4.599 | 1.107 | 24.402 | 0.153 |
| 6 - 9         | 44     | 4.224   | 2.000     | 8.800 | 6.800 | 1.219 | 28.867 | 0.183 |
| 9 - 12        | 50     | 4.289   | 2.800     | 8.500 | 5.699 | 1.241 | 28.947 | 0.175 |
| 12 - 15       | 65     | 4.061   | 2.000     | 7.800 | 5.800 | 0.966 | 23.802 | 0.119 |
| 15 - 18       | 88     | 4.022   | 2.200     | 6.199 | 3.999 | 0.877 | 21.814 | 0.093 |
| 18 - 21       | 64     | 4.218   | 2.400     | 6.800 | 4.400 | 0.997 | 23.635 | 0.124 |
| 21 - 24       | 80     | 4.212   | 2.400     | 9.800 | 7.400 | 1.164 | 28.129 | 0.132 |
| 24 - 27       | 114    | 4.458   | 2.200     | 9.800 | 7.600 | 1.225 | 27.484 | 0.114 |
| 27 - 30       | 68     | 4.442   | 2.400     | 7.199 | 4.800 | 1.103 | 24.847 | 0.133 |
| 30 - 33       | 88     | 4.479   | 2.200     | 7.500 | 5.300 | 1.079 | 24.101 | 0.115 |
| 33 - 36       | 80     | 4.649   | 2.000     | 8.000 | 6.000 | 1.465 | 31.515 | 0.163 |
| 36 - 39       | 93     | 4.379   | 2.400     | 7.600 | 5.400 | 1.036 | 23.661 | 0.107 |
| 39 - 42       | 70     | 4.125   | 2.400     | 7.000 | 4.600 | 0.951 | 23.063 | 0.113 |
| 42 - 45       | 73     | 4.249   | 2.200     | 7.399 | 5.199 | 1.136 | 26.754 | 0.133 |
| 45 - 48       | 91     | 4.339   | 2.400     | 8.399 | 5.999 | 1.188 | 27.384 | 0.124 |
| 48 - 51       | 84     | 4.257   | 2.400     | 8.800 | 6.400 | 1.175 | 27.614 | 0.128 |
| 51 - 54       | 55     | 4.065   | 2.000     | 8.200 | 6.199 | 1.163 | 28.627 | 0.156 |
| 54 - 57       | 40     | 3.877   | 2.400     | 5.800 | 3.400 | 0.803 | 20.714 | 0.127 |
| 57 - 60       | 66     | 3.974   | 2.800     | 6.199 | 3.399 | 0.863 | 21.732 | 0.106 |
| 60 - 63       | 156    | 3.929   | 2.400     | 7.600 | 5.200 | 0.943 | 24.023 | 0.075 |

## COMPLETELY WEANED CHILDREN'S MEAN SUPRAILIAC SKINFOLD THICKNESS (MM) BY AGE AND SEX

## CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>===== | NUMBER | M E A N | R A N G E |        | S.D.   | C.V.  | S.E.   |       |
|-----------------------|--------|---------|-----------|--------|--------|-------|--------|-------|
|                       |        |         | MIN.      | MAX.   |        |       |        |       |
| F E M A L E S         |        |         |           |        |        |       |        |       |
| 0 - 3                 | 26     | 4.657   | 2.800     | 7.399  | 4.599  | 1.130 | 24.276 | 0.221 |
| 3 - 6                 | 52     | 5.796   | 3.000     | 9.600  | 6.599  | 1.527 | 26.354 | 0.211 |
| 6 - 9                 | 44     | 5.347   | 2.000     | 8.600  | 6.599  | 1.221 | 22.832 | 0.184 |
| 9 - 12                | 50     | 5.367   | 3.200     | 8.600  | 5.399  | 1.258 | 23.447 | 0.178 |
| 12 - 15               | 65     | 5.610   | 2.800     | 7.399  | 4.599  | 1.160 | 23.169 | 0.144 |
| 15 - 18               | 88     | 4.906   | 2.200     | 7.399  | 5.199  | 1.010 | 20.591 | 0.107 |
| 18 - 21               | 64     | 5.265   | 3.400     | 9.000  | 5.599  | 1.193 | 22.656 | 0.149 |
| 21 - 24               | 80     | 5.126   | 3.400     | 10.000 | 6.599  | 1.360 | 26.531 | 0.152 |
| 24 - 27               | 114    | 5.404   | 3.200     | 9.200  | 6.000  | 1.281 | 23.705 | 0.119 |
| 27 - 30               | 69     | 5.532   | 3.000     | 13.000 | 10.000 | 1.732 | 31.319 | 0.210 |
| 30 - 33               | 88     | 5.597   | 3.200     | 9.500  | 6.299  | 1.414 | 25.265 | 0.150 |
| 33 - 36               | 80     | 5.577   | 2.000     | 9.500  | 7.499  | 1.503 | 26.958 | 0.168 |
| 36 - 39               | 93     | 5.379   | 3.000     | 9.500  | 6.499  | 1.277 | 23.740 | 0.132 |
| 39 - 42               | 70     | 5.144   | 3.200     | 9.399  | 6.199  | 1.226 | 23.837 | 0.146 |
| 42 - 45               | 73     | 5.379   | 3.200     | 9.399  | 6.199  | 1.383 | 25.726 | 0.161 |
| 45 - 49               | 91     | 4.990   | 3.200     | 9.800  | 6.600  | 1.306 | 26.178 | 0.136 |
| 48 - 51               | 84     | 5.042   | 2.800     | 10.500 | 7.699  | 1.410 | 27.971 | 0.153 |
| 51 - 54               | 55     | 4.852   | 2.800     | 11.500 | 8.699  | 1.422 | 29.317 | 0.191 |
| 54 - 57               | 40     | 4.644   | 3.000     | 9.800  | 6.800  | 1.307 | 28.149 | 0.206 |
| 57 - 60               | 66     | 4.727   | 3.000     | 8.000  | 5.000  | 1.106 | 23.396 | 0.136 |
| 60 - 63               | 156    | 4.808   | 2.599     | 13.799 | 11.199 | 1.416 | 29.458 | 0.113 |

COMPLETELY WEANED CHILDREN'S MEAN SUPRAILLIAC SKINFOLD THICKNESS (MM) BY AGE AND SEX

CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS)<br>===== | NUMBER | M E A N | R A N G E |        | S.D.  | C.V.  | S.E.   |       |
|-----------------------|--------|---------|-----------|--------|-------|-------|--------|-------|
|                       |        |         | MIN.      | MAX.   |       |       |        |       |
| M A L E S             |        |         |           |        |       |       |        |       |
| 0 - 3                 | 23     | 5.426   | 2.400     | 8.800  | 6.400 | 1.604 | 30.683 | 0.347 |
| 3 - 6                 | 40     | 5.379   | 2.400     | 8.800  | 6.400 | 1.584 | 29.453 | 0.250 |
| 6 - 9                 | 55     | 6.049   | 3.200     | 9.200  | 6.000 | 1.613 | 26.667 | 0.217 |
| 9 - 12                | 58     | 5.279   | 3.000     | 9.000  | 5.919 | 1.271 | 24.082 | 0.166 |
| 12 - 15               | 61     | 5.188   | 3.400     | 9.200  | 5.800 | 1.264 | 24.371 | 0.161 |
| 15 - 18               | 75     | 4.850   | 3.200     | 8.200  | 5.000 | 1.193 | 24.595 | 0.137 |
| 18 - 21               | 82     | 5.158   | 3.000     | 8.200  | 5.199 | 1.151 | 22.322 | 0.127 |
| 21 - 24               | 89     | 5.179   | 3.599     | 9.000  | 5.399 | 1.051 | 20.298 | 0.111 |
| 24 - 27               | 73     | 4.741   | 3.200     | 7.800  | 4.600 | 0.938 | 19.798 | 0.109 |
| 27 - 30               | 91     | 5.067   | 2.800     | 12.000 | 9.199 | 1.275 | 25.560 | 0.135 |
| 30 - 33               | 81     | 4.974   | 2.400     | 10.399 | 7.999 | 1.435 | 28.661 | 0.159 |
| 33 - 36               | 91     | 5.072   | 3.200     | 8.000  | 4.800 | 1.049 | 20.689 | 0.110 |
| 36 - 39               | 105    | 4.972   | 3.000     | 10.200 | 7.199 | 1.460 | 29.377 | 0.142 |
| 39 - 42               | 77     | 4.919   | 3.000     | 9.000  | 5.999 | 1.310 | 26.632 | 0.149 |
| 42 - 45               | 71     | 4.807   | 2.400     | 9.399  | 6.999 | 1.248 | 25.981 | 0.148 |
| 45 - 48               | 94     | 4.490   | 2.400     | 7.800  | 5.400 | 1.118 | 24.897 | 0.115 |
| 48 - 51               | 80     | 4.404   | 2.800     | 9.800  | 7.000 | 1.088 | 24.699 | 0.121 |
| 51 - 54               | 90     | 4.558   | 2.599     | 10.500 | 7.899 | 1.272 | 26.820 | 0.128 |
| 54 - 57               | 61     | 4.293   | 2.599     | 8.399  | 5.799 | 1.069 | 25.364 | 0.139 |
| 57 - 60               | 65     | 4.106   | 2.800     | 6.700  | 3.600 | 0.744 | 18.132 | 0.092 |
| 60 - 63               | 134    | 4.259   | 2.400     | 7.300  | 4.900 | 0.895 | 21.025 | 0.077 |

## COMPLETELY WEARED CHILDREN MEAN SUBSCAPULAR SKINFOLD THICKNESS (MM) BY AGE AND SEX

## CHILD GROWTH SURVEY - AMMAN

| AGE (MONTHS) | NUMBER | M E A N | R A N G E |        |        | S. D. | C. V.  | S. E. |
|--------------|--------|---------|-----------|--------|--------|-------|--------|-------|
|              |        |         | MIN.      | MAX.   | VAL.   |       |        |       |
| -----        |        |         |           |        |        |       |        |       |
| M A L E S    |        |         |           |        |        |       |        |       |
| 0 - 3        | 23     | 6.608   | 2.400     | 14.000 | 11.600 | 2.280 | 34.514 | 0.475 |
| 3 - 6        | 40     | 7.014   | 2.000     | 12.000 | 10.000 | 2.743 | 39.109 | 0.433 |
| 6 - 9        | 55     | 7.478   | 3.200     | 14.600 | 11.399 | 2.507 | 33.528 | 0.338 |
| 9 - 12       | 58     | 6.753   | 3.200     | 13.399 | 10.199 | 2.370 | 35.098 | 0.311 |
| 12 - 15      | 61     | 5.991   | 3.200     | 10.800 | 7.600  | 1.737 | 29.002 | 0.222 |
| 15 - 18      | 75     | 5.502   | 2.800     | 11.500 | 8.699  | 1.900 | 34.545 | 0.219 |
| 18 - 21      | 82     | 5.919   | 2.400     | 16.000 | 13.600 | 2.276 | 38.455 | 0.251 |
| 21 - 24      | 89     | 5.558   | 3.000     | 11.500 | 8.500  | 1.754 | 31.559 | 0.185 |
| 24 - 27      | 73     | 5.780   | 2.800     | 14.399 | 11.599 | 2.137 | 36.982 | 0.250 |
| 27 - 30      | 91     | 5.452   | 2.800     | 11.800 | 9.000  | 1.783 | 32.700 | 0.186 |
| 30 - 33      | 81     | 5.430   | 2.400     | 15.500 | 13.100 | 2.113 | 38.912 | 0.234 |
| 33 - 36      | 91     | 5.534   | 2.400     | 11.800 | 9.400  | 1.756 | 31.748 | 0.184 |
| 36 - 39      | 105    | 5.589   | 2.000     | 12.399 | 10.399 | 2.194 | 39.256 | 0.214 |
| 39 - 42      | 77     | 5.602   | 3.200     | 10.500 | 7.299  | 1.856 | 33.127 | 0.211 |
| 42 - 45      | 71     | 5.174   | 2.800     | 11.000 | 8.199  | 1.630 | 31.505 | 0.193 |
| 45 - 48      | 94     | 5.129   | 2.200     | 10.500 | 8.299  | 1.999 | 38.971 | 0.206 |
| 48 - 51      | 80     | 4.663   | 2.599     | 9.200  | 6.600  | 1.370 | 29.388 | 0.153 |
| 51 - 54      | 90     | 4.732   | 2.400     | 11.500 | 9.100  | 1.455 | 30.756 | 0.153 |
| 54 - 57      | 61     | 4.500   | 2.200     | 9.000  | 6.799  | 1.362 | 30.224 | 0.174 |
| 57 - 60      | 65     | 4.564   | 2.200     | 9.800  | 7.600  | 1.182 | 25.899 | 0.146 |
| 60 - 63      | 134    | 4.383   | 2.400     | 10.000 | 7.599  | 1.224 | 27.934 | 0.105 |













PARTIALLY BREAST FED CHILDREN'S HEAD CIRCUMFERENCE (CM) BY AGE AND SEX  
 CHILD GROWTH SURVEY - AMMAN

AGE (MONTHS) -----  
 NUMBER      M E A N      R A N G E      S.D.      C.V.      S.E.

| AGE (MONTHS) | NUMBER | M E A N | R A N G E          | S.D.   | C.V.  | S.E.  |
|--------------|--------|---------|--------------------|--------|-------|-------|
|              |        |         | MIN.      MAX.     |        |       |       |
| 0 - 3        | 26     | 39.007  | 35.900      47.300 | 11.400 | 2.129 | 0.417 |
| 3 - 6        | 26     | 41.419  | 38.000      48.000 | 10.000 | 2.221 | 0.435 |
| 6 - 9        | 29     | 43.544  | 40.500      46.800 | 6.300  | 1.270 | 0.235 |
| 9 - 12       | 29     | 45.058  | 43.400      46.800 | 3.400  | 0.976 | 0.181 |
| 12 - 15      | 20     | 45.434  | 43.500      49.300 | 5.800  | 1.595 | 0.356 |
| 15 - 18      | 12     | 45.766  | 44.599      47.300 | 2.700  | 0.910 | 0.262 |
| 18 - 21      | 11     | 45.918  | 42.900      47.099 | 4.199  | 1.215 | 0.366 |
| 21 - 24      | 3      | 46.533  | 44.599      48.000 | 3.400  | 1.747 | 1.008 |
| 24 - 27      | 2      | 48.250  | 48.000      48.500 | 0.500  | 0.353 | 0.249 |
| 27 - 30      | 2      | 49.099  | 49.000      49.200 | 0.200  | 0.141 | 0.099 |
| 30 - 33      | 1      | 43.800  | 43.800             | 0.000  | 0.000 | 0.000 |
| 33 - 36      | 1      | 47.200  | 47.200             | 0.000  | 0.000 | 0.000 |
| 36 - 39      | 1      | 44.500  | 44.500             | 0.000  | 0.000 | 0.000 |
| 39 - 42      | 0      | 0.000   | 0.000              | 0.000  | 0.000 | 0.000 |
| 42 - 45      | 0      | 0.000   | 0.000              | 0.000  | 0.000 | 0.000 |
| 45 - 48      | 2      | 49.049  | 48.599      49.500 | 0.900  | 0.636 | 0.449 |
| 48 - 51      | 0      | 0.000   | 0.000              | 0.000  | 0.000 | 0.000 |
| 51 - 54      | 0      | 0.000   | 0.000              | 0.000  | 0.000 | 0.000 |
| 54 - 57      | 0      | 0.000   | 0.000              | 0.000  | 0.000 | 0.000 |
| 57 - 60      | 0      | 0.000   | 0.000              | 0.000  | 0.000 | 0.000 |
| 60 - 63      | 0      | 0.000   | 0.000              | 0.000  | 0.000 | 0.000 |

M A L E S



















PARTIALLY BREAST FED CHILDREN'S MEAN SUPRATILAC SKINFOLD THICKNESS (MM) BY AGE AND SEX

CHILD GROWTH SURVEY - ANMAN

NUMBER MEAN RANGE MIN. MAX. VAL. S.D. C.V. S.E.

AGE (MONTHS)

|         |    |       |       |       |       |       |        |       |
|---------|----|-------|-------|-------|-------|-------|--------|-------|
| 0 - 3   | 26 | 5.673 | 2.400 | 9.800 | 7.400 | 1.571 | 27.703 | 0.300 |
| 3 - 6   | 26 | 5.480 | 2.599 | 9.200 | 6.600 | 1.434 | 26.172 | 0.281 |
| 6 - 9   | 28 | 5.610 | 3.200 | 8.200 | 5.000 | 1.388 | 24.755 | 0.262 |
| 9 - 12  | 29 | 5.282 | 3.800 | 8.000 | 4.199 | 1.079 | 20.425 | 0.200 |
| 12 - 15 | 20 | 4.889 | 3.559 | 6.400 | 2.800 | 0.934 | 17.069 | 0.186 |
| 15 - 18 | 12 | 4.741 | 3.599 | 6.199 | 2.599 | 0.811 | 17.120 | 0.234 |
| 18 - 21 | 11 | 4.927 | 3.400 | 7.799 | 3.999 | 1.184 | 24.032 | 0.357 |
| 21 - 24 | 3  | 4.566 | 4.000 | 5.100 | 1.100 | 0.550 | 12.060 | 0.317 |
| 24 - 27 | 2  | 4.199 | 4.199 | 4.199 | 0.000 | 0.000 | 0.007  | 0.000 |
| 27 - 30 | 2  | 3.599 | 3.200 | 4.000 | 0.799 | 0.565 | 15.713 | 0.399 |
| 30 - 33 | 1  | 5.400 | 5.400 | 5.400 | 0.000 | 0.000 | 0.000  | 0.000 |
| 33 - 36 | 1  | 5.000 | 5.000 | 5.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 36 - 39 | 1  | 4.199 | 4.199 | 4.199 | 0.000 | 0.000 | 0.000  | 0.000 |
| 39 - 42 | 0  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 42 - 45 | 0  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 45 - 48 | 2  | 4.099 | 4.000 | 4.199 | 0.199 | 0.141 | 3.449  | 0.099 |
| 48 - 51 | 0  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 51 - 54 | 0  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 54 - 57 | 0  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 57 - 60 | 0  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |
| 60 - 63 | 0  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000  | 0.000 |

M A L E S









## APPENDIX XI

## CHILDREN'S HEAD CIRCUMFERENCE (CM) BY AGE AND BIRTH ORDER (SEX COMBINED)

| AGE        |                     | BIRTH ORDER           |                       |                       |                       |                       |                       |                       |                       |                       |                      |                      |                      |
|------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|
| # (MONTHS) |                     | # = 1 =               | # = 2 =               | # = 3 =               | # = 4 =               | # = 5 =               | # = 6 =               | # = 7 =               | # = 8 =               | # = 9 =               | # = 10 =             | # = 11 =             | # = 12 =             |
| 0-3        | NO.<br>MEAN<br>S.D. | 11<br>38.918<br>2.515 | 17<br>37.752<br>1.631 | 27<br>37.414<br>1.900 | 20<br>38.894<br>2.611 | 19<br>37.947<br>2.970 | 23<br>37.581<br>1.667 | 27<br>37.638<br>1.882 | 13<br>39.139<br>1.112 | 5<br>37.500<br>2.900  | 3<br>36.099<br>1.181 | 4<br>36.349<br>1.181 | 2<br>36.099<br>0.141 |
| 3-6        | NO.<br>MEAN<br>S.D. | 29<br>41.644<br>2.442 | 27<br>40.988<br>2.612 | 22<br>39.959<br>1.812 | 28<br>40.717<br>1.888 | 11<br>39.781<br>2.210 | 27<br>41.166<br>2.559 | 11<br>40.909<br>2.037 | 10<br>41.899<br>2.950 | 7<br>41.899<br>3.541  | 4<br>39.399<br>1.498 | 1<br>40.000<br>6.000 | 3<br>43.500<br>1.571 |
| 6-9        | NO.<br>MEAN<br>S.D. | 33<br>42.833<br>1.757 | 23<br>42.995<br>2.097 | 28<br>42.796<br>1.609 | 25<br>42.463<br>1.716 | 33<br>42.836<br>1.780 | 26<br>43.057<br>1.944 | 14<br>43.214<br>2.171 | 14<br>42.971<br>2.355 | 12<br>42.399<br>1.814 | 2<br>42.250<br>0.353 | 5<br>43.080<br>1.808 | 1<br>45.500<br>0.001 |
| 9-12       | NO.<br>MEAN<br>S.D. | 28<br>43.278<br>1.946 | 22<br>43.736<br>2.345 | 29<br>44.106<br>1.534 | 34<br>44.397<br>1.570 | 21<br>43.957<br>1.756 | 16<br>46.174<br>1.554 | 25<br>43.987<br>2.072 | 14<br>44.099<br>2.668 | 13<br>44.215<br>1.880 | 2<br>43.949<br>0.777 | 1<br>46.400<br>0.060 | 1<br>44.099<br>0.001 |
| 12-15      | NO.<br>MEAN<br>S.D. | 23<br>44.791<br>1.485 | 24<br>44.375<br>1.583 | 27<br>44.111<br>1.831 | 21<br>45.547<br>1.870 | 32<br>44.684<br>2.210 | 35<br>44.948<br>1.725 | 16<br>44.281<br>1.571 | 13<br>44.515<br>2.183 | 11<br>44.572<br>1.500 | 4<br>44.924<br>1.639 | 0<br>44.000<br>0.000 | 1<br>44.000<br>0.001 |
| 15-18      | NO.<br>MEAN<br>S.D. | 32<br>45.181<br>1.633 | 32<br>45.799<br>1.721 | 25<br>44.652<br>1.890 | 29<br>45.358<br>1.664 | 20<br>45.360<br>1.996 | 19<br>45.073<br>1.667 | 20<br>45.239<br>1.526 | 14<br>45.578<br>0.988 | 7<br>46.099<br>2.089  | 5<br>44.299<br>2.022 | 2<br>45.199<br>0.282 | 1<br>47.099<br>0.001 |
| 18-21      | NO.<br>MEAN<br>S.D. | 25<br>46.395<br>1.510 | 18<br>46.894<br>1.961 | 24<br>46.164<br>1.732 | 20<br>45.704<br>2.309 | 27<br>45.565<br>1.427 | 21<br>45.285<br>1.528 | 18<br>46.116<br>1.367 | 14<br>46.292<br>1.514 | 4<br>46.400<br>2.239  | 3<br>45.066<br>0.230 | 0<br>46.400<br>0.000 | 1<br>46.400<br>0.002 |
| 21-24      | NO.<br>MEAN<br>S.D. | 25<br>46.388<br>1.931 | 23<br>45.813<br>1.971 | 22<br>46.672<br>1.412 | 18<br>45.905<br>1.483 | 27<br>46.122<br>1.716 | 27<br>46.362<br>1.536 | 18<br>46.049<br>1.875 | 11<br>46.381<br>1.863 | 8<br>45.625<br>2.186  | 3<br>45.565<br>2.706 | 0<br>45.000<br>0.000 | 1<br>45.800<br>0.000 |
| 24-27      | NO.<br>MEAN<br>S.D. | 17<br>46.211<br>2.685 | 26<br>46.376<br>1.326 | 31<br>46.461<br>1.172 | 35<br>46.479<br>1.426 | 25<br>46.575<br>1.188 | 16<br>46.755<br>1.515 | 21<br>45.947<br>1.825 | 13<br>46.730<br>2.214 | 7<br>46.000<br>2.299  | 5<br>46.919<br>0.697 | 3<br>46.066<br>1.484 | 1<br>47.000<br>0.002 |

## CHILDREN'S ARM CIRCUMFERENCE (CM) BY AGE AND BIRTH ORDER (SEX COMBINED)

CHILD GROWTH SURVEY - AMMAN  
B I R T H O R D E R

| AGE (MONTH) | 1           | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     |
|-------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0-3         | NO. 11      | 17     | 27     | 20     | 19     | 23     | 26     | 13     | 5      | 3      | 4      | 2      |
|             | MEAN 12.054 | 11.694 | 10.951 | 12.124 | 11.273 | 11.760 | 11.649 | 11.307 | 11.500 | 12.166 | 12.199 | 10.000 |
|             | S.D. 1.415  | 1.219  | 1.316  | 0.850  | 1.472  | 2.048  | 1.469  | 1.485  | 0.824  | 2.565  | 0.962  | 0.748  |
| 3-6         | NO. 29      | 27     | 22     | 28     | 11     | 27     | 11     | 10     | 7      | 4      | 1      | 3      |
|             | MEAN 13.227 | 12.392 | 12.209 | 12.896 | 12.399 | 13.222 | 13.127 | 12.250 | 12.442 | 11.500 | 11.000 | 14.500 |
|             | S.D. 1.360  | 1.481  | 1.256  | 1.063  | 1.066  | 1.137  | 1.319  | 1.138  | 1.922  | 0.871  | 0.000  | 1.322  |
| 6-9         | NO. 33      | 23     | 28     | 25     | 33     | 26     | 14     | 14     | 12     | 2      | 5      | 1      |
|             | MEAN 13.690 | 13.595 | 13.257 | 13.159 | 13.166 | 13.561 | 13.414 | 13.499 | 13.724 | 14.100 | 12.639 | 15.000 |
|             | S.D. 1.140  | 1.367  | 1.272  | 1.233  | 1.456  | 1.224  | 1.297  | 1.690  | 1.407  | 1.555  | 1.234  | 0.001  |
| 9-12        | NO. 27      | 22     | 29     | 34     | 21     | 16     | 24     | 14     | 13     | 2      | 1      | 1      |
|             | MEAN 13.796 | 13.754 | 13.717 | 14.020 | 13.504 | 14.656 | 13.824 | 13.535 | 13.515 | 12.250 | 13.000 | 13.700 |
|             | S.D. 1.308  | 1.076  | 1.253  | 1.345  | 1.002  | 1.138  | 1.627  | 1.021  | 1.756  | 0.353  | 0.001  | 0.000  |
| 12-15       | NO. 23      | 24     | 27     | 21     | 32     | 35     | 16     | 13     | 11     | 4      | 0      | 1      |
|             | MEAN 13.713 | 13.795 | 13.237 | 14.480 | 13.524 | 14.265 | 14.106 | 13.515 | 13.481 | 13.824 | 0.000  | 14.500 |
|             | S.D. 0.894  | 1.248  | 1.380  | 1.477  | 1.500  | 1.441  | 1.347  | 1.022  | 1.299  | 0.665  | 0.000  | 0.001  |
| 15-18       | NO. 32      | 32     | 25     | 29     | 20     | 19     | 20     | 13     | 7      | 5      | 2      | 1      |
|             | MEAN 13.818 | 13.884 | 13.447 | 13.965 | 13.319 | 13.726 | 13.584 | 13.846 | 13.885 | 13.119 | 14.600 | 12.500 |
|             | S.D. 0.758  | 1.335  | 1.501  | 1.277  | 1.172  | 1.216  | 0.971  | 1.335  | 1.786  | 2.248  | 0.848  | 0.000  |
| 18-21       | NO. 25      | 18     | 24     | 20     | 27     | 21     | 18     | 14     | 4      | 3      | 0      | 1      |
|             | MEAN 14.251 | 13.655 | 14.508 | 13.889 | 14.799 | 14.147 | 14.166 | 13.985 | 14.049 | 13.299 | 0.000  | 13.700 |
|             | S.D. 1.191  | 1.410  | 0.977  | 1.581  | 0.967  | 1.322  | 1.109  | 0.930  | 1.389  | 0.699  | 0.000  | 0.000  |
| 21-24       | NO. 25      | 23     | 22     | 18     | 27     | 27     | 18     | 11     | 8      | 3      | 0      | 1      |
|             | MEAN 14.339 | 14.278 | 14.231 | 14.094 | 14.396 | 14.325 | 14.022 | 14.236 | 14.262 | 13.733 | 0.000  | 12.500 |
|             | S.D. 1.027  | 1.025  | 1.170  | 1.062  | 1.256  | 1.470  | 1.309  | 0.884  | 1.312  | 0.305  | 0.000  | 0.000  |
| 24-27       | NO. 17      | 26     | 31     | 35     | 25     | 18     | 21     | 13     | 7      | 5      | 3      | 1      |
|             | MEAN 14.670 | 14.103 | 14.712 | 14.371 | 14.535 | 14.338 | 14.557 | 14.484 | 14.457 | 13.759 | 13.166 | 15.000 |
|             | S.D. 1.137  | 1.074  | 1.273  | 1.260  | 0.910  | 1.063  | 1.203  | 1.288  | 1.517  | 0.658  | 0.577  | 0.001  |

MEAN TRICEPS SKINFOLD THICKNESS (MM) BY AGE AND BIRTH ORDER (SEX COMBINED)

CHILD GROWTH SURVEY - AMMAN

| AGE<br>(MONTH) | BIRTH ORDER |       |       |       |       |       |       |       |       |        |        |        |       |
|----------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|
|                | = 1 =       | = 2 = | = 3 = | = 4 = | = 5 = | = 6 = | = 7 = | = 8 = | = 9 = | = 10 = | = 11 = | = 12 = |       |
| 0-3            | NO.         | 11    | 17    | 27    | 20    | 19    | 22    | 26    | 13    | 5      | 3      | 4      | 2     |
|                | MEAN        | 6.309 | 5.941 | 5.014 | 6.044 | 5.199 | 5.895 | 6.038 | 5.384 | 5.800  | 6.933  | 6.449  | 4.600 |
|                | S.D.        | 1.143 | 1.630 | 1.236 | 0.987 | 2.339 | 2.091 | 1.849 | 1.734 | 0.599  | 3.827  | 0.550  | 1.131 |
| 3-6            | NO.         | 29    | 27    | 22    | 28    | 11    | 27    | 11    | 10    | 7      | 4      | 1      | 3     |
|                | MEAN        | 6.434 | 6.862 | 6.763 | 7.307 | 6.381 | 6.933 | 6.345 | 6.499 | 5.628  | 5.050  | 5.400  | 6.866 |
|                | S.D.        | 2.075 | 2.149 | 1.802 | 2.357 | 1.386 | 1.896 | 1.368 | 1.256 | 1.256  | 0.869  | 0.000  | 1.101 |
| 6-9            | NO.         | 33    | 23    | 28    | 25    | 33    | 25    | 14    | 14    | 11     | 2      | 5      | 1     |
|                | MEAN        | 6.015 | 7.086 | 6.824 | 6.783 | 6.709 | 7.627 | 6.714 | 6.885 | 7.263  | 6.599  | 7.199  | 6.800 |
|                | S.D.        | 2.262 | 1.453 | 1.493 | 1.518 | 1.723 | 2.050 | 1.786 | 2.788 | 2.307  | 1.131  | 0.812  | 0.000 |
| 9-12           | NO.         | 20    | 22    | 29    | 34    | 21    | 16    | 25    | 14    | 13     | 2      | 1      | 1     |
|                | MEAN        | 6.628 | 6.599 | 7.262 | 7.620 | 6.309 | 7.081 | 6.691 | 6.899 | 6.615  | 5.100  | 5.600  | 8.200 |
|                | S.D.        | 1.341 | 1.428 | 1.549 | 2.280 | 1.572 | 1.243 | 1.692 | 1.391 | 1.664  | 0.989  | 0.000  | 0.001 |
| 12-15          | NO.         | 22    | 24    | 27    | 21    | 32    | 33    | 15    | 12    | 11     | 4      | 0      | 1     |
|                | MEAN        | 6.836 | 6.683 | 6.437 | 6.857 | 6.281 | 6.636 | 6.746 | 6.566 | 6.609  | 6.699  | 0.000  | 8.399 |
|                | S.D.        | 1.248 | 2.160 | 1.559 | 1.620 | 1.191 | 1.578 | 1.533 | 1.785 | 1.463  | 0.382  | 0.000  | 0.001 |
| 15-18          | NO.         | 32    | 32    | 25    | 29    | 20    | 19    | 20    | 14    | 7      | 5      | 2      | 1     |
|                | MEAN        | 7.153 | 6.534 | 6.659 | 6.568 | 6.534 | 6.494 | 6.154 | 6.821 | 5.885  | 5.639  | 6.099  | 5.600 |
|                | S.D.        | 1.861 | 1.351 | 1.878 | 1.912 | 1.444 | 1.763 | 1.481 | 1.979 | 0.661  | 1.438  | 0.141  | 0.000 |
| 18-21          | NO.         | 25    | 18    | 23    | 20    | 27    | 21    | 18    | 14    | 4      | 3      | 0      | 1     |
|                | MEAN        | 7.199 | 6.677 | 7.208 | 6.349 | 6.892 | 6.876 | 7.405 | 6.449 | 7.449  | 5.133  | 0.000  | 6.800 |
|                | S.D.        | 1.767 | 1.566 | 1.701 | 1.596 | 1.449 | 1.348 | 1.732 | 1.587 | 2.599  | 1.137  | 0.000  | 0.000 |
| 21-24          | NO.         | 24    | 23    | 22    | 18    | 27    | 27    | 18    | 11    | 8      | 3      | 0      | 1     |
|                | MEAN        | 6.991 | 6.926 | 6.681 | 6.811 | 7.348 | 6.540 | 7.249 | 6.672 | 7.774  | 5.599  | 0.000  | 5.400 |
|                | S.D.        | 1.886 | 1.159 | 1.147 | 1.832 | 1.429 | 1.784 | 1.765 | 0.980 | 2.063  | 1.567  | 0.000  | 0.000 |
| 24-27          | NO.         | 17    | 26    | 31    | 34    | 26    | 16    | 21    | 13    | 7      | 5      | 3      | 1     |
|                | MEAN        | 7.247 | 7.088 | 7.219 | 6.782 | 7.546 | 6.461 | 7.133 | 6.546 | 7.014  | 6.379  | 4.966  | 6.400 |
|                | S.D.        | 1.860 | 1.800 | 1.657 | 1.513 | 2.265 | 1.116 | 1.797 | 1.451 | 2.647  | 1.741  | 0.737  | 0.000 |

## MEAN BICEPS SKINFOLD

## CHILD GROWTH SURVEY -

.....  
 \* AGE \*  
 \* (MONTH) \* = 1 = 2 = 3 =  
 .....

|       | NO.  | 11    | 17    | 27    |
|-------|------|-------|-------|-------|
| 0-3   | MEAN | 4.381 | 4.117 | 3.896 |
|       | S.D. | 0.997 | 0.982 | 0.967 |
|       |      |       |       |       |
| 3-6   | NO.  | 29    | 27    | 22    |
|       | MEAN | 4.862 | 4.025 | 4.713 |
|       | S.D. | 1.086 | 1.247 | 1.256 |
| 6-9   | NO.  | 33    | 23    | 28    |
|       | MEAN | 4.724 | 4.869 | 4.078 |
|       | S.D. | 1.604 | 1.407 | 0.916 |
| 9-12  | NO.  | 28    | 22    | 29    |
|       | MEAN | 3.871 | 4.386 | 4.489 |
|       | S.D. | 0.688 | 1.223 | 1.020 |
| 12-15 | NO.  | 22    | 24    | 27    |
|       | MEAN | 4.636 | 4.095 | 3.962 |
|       | S.D. | 1.197 | 0.927 | 0.703 |
| 15-18 | NO.  | 32    | 32    | 25    |
|       | MEAN | 4.440 | 4.028 | 4.079 |
|       | S.D. | 1.069 | 0.975 | 0.909 |
| 18-21 | NO.  | 25    | 18    | 23    |
|       | MEAN | 4.111 | 4.116 | 4.460 |
|       | S.D. | 1.095 | 0.955 | 1.262 |
| 21-24 | NO.  | 24    | 23    | 22    |
|       | MEAN | 4.187 | 4.334 | 4.045 |
|       | S.D. | 1.173 | 0.917 | 0.711 |
| 24-27 | NO.  | 17    | 26    | 31    |
|       | MEAN | 4.547 | 4.407 | 4.541 |
|       | S.D. | 0.858 | 0.776 | 1.179 |

## THICKNESS (MM) BY AGE AND BIRTH ORDER (SEX COMBINED)

AMMAN

.....

BIRTH ORDER

= 4 =    = 5 =    = 6 =    = 7 =    = 8 =    = 9 =    = 10 =    = 11 =    = 12 =

.....

|       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 20    | 19    | 22    | 26    | 13    | 5     | 3     | 4     | 2     |
| 4.099 | 4.015 | 4.118 | 4.211 | 3.815 | 4.159 | 4.199 | 4.199 | 3.500 |
| 0.669 | 1.520 | 1.265 | 1.069 | 0.957 | 0.973 | 1.928 | 0.848 | 0.707 |
| 28    | 11    | 27    | 11    | 10    | 7     | 4     | 1     | 3     |
| 4.567 | 4.127 | 4.270 | 3.890 | 4.409 | 3.999 | 4.099 | 3.400 | 4.399 |
| 1.126 | 0.972 | 1.029 | 0.973 | 1.172 | 0.886 | 0.577 | 0.000 | 0.799 |
| 25    | 33    | 25    | 14    | 14    | 12    | 2     | 5     | 1     |
| 4.455 | 4.227 | 4.827 | 4.242 | 4.421 | 4.250 | 3.999 | 4.159 | 4.400 |
| 1.319 | 0.742 | 1.547 | 1.359 | 1.214 | 1.544 | 1.697 | 0.654 | 0.000 |
| 34    | 21    | 16    | 25    | 14    | 13    | 2     | 1     | 1     |
| 4.485 | 3.652 | 4.081 | 4.419 | 4.714 | 3.699 | 3.300 | 3.800 | 3.800 |
| 0.991 | 0.609 | 0.614 | 1.121 | 1.819 | 0.645 | 0.707 | 0.000 | 0.000 |
| 21    | 32    | 33    | 15    | 12    | 11    | 4     | 0     | 1     |
| 4.323 | 4.099 | 3.939 | 4.066 | 4.316 | 4.199 | 3.824 | 0.000 | 3.400 |
| 1.161 | 0.882 | 0.802 | 0.718 | 1.129 | 1.173 | 0.464 | 0.000 | 0.000 |
| 29    | 20    | 19    | 20    | 14    | 7     | 5     | 2     | 1     |
| 4.451 | 3.969 | 4.210 | 4.189 | 4.457 | 3.828 | 3.159 | 3.699 | 3.000 |
| 1.432 | 0.798 | 1.170 | 1.228 | 0.984 | 0.882 | 0.726 | 0.707 | 0.000 |
| 20    | 27    | 21    | 18    | 14    | 4     | 3     | 0     | 1     |
| 4.049 | 3.855 | 4.490 | 4.583 | 4.271 | 4.500 | 3.533 | 0.000 | 3.599 |
| 1.004 | 0.741 | 1.180 | 1.170 | 1.353 | 1.747 | 0.757 | 0.000 | 0.000 |
| 18    | 27    | 27    | 18    | 11    | 8     | 3     | 0     | 1     |
| 4.161 | 4.614 | 3.981 | 4.888 | 4.454 | 4.050 | 3.266 | 0.000 | 4.400 |
| 0.895 | 1.609 | 0.819 | 1.343 | 1.206 | 0.984 | 0.230 | 0.000 | 0.000 |
| 34    | 26    | 18    | 21    | 13    | 7     | 5     | 3     | 1     |
| 4.373 | 4.476 | 4.266 | 4.342 | 4.099 | 4.128 | 3.839 | 3.733 | 3.400 |
| 1.250 | 1.497 | 1.211 | 1.285 | 1.003 | 0.946 | 1.275 | 0.305 | 0.000 |

MEAN SUPRATLIALG SKINFOLD THICKNESS (MM) BY AGE

CHILD GROWTH SURVEY - AMMAN

| AGE     |      | BIRTH ORDER |       |       |       |       |       |
|---------|------|-------------|-------|-------|-------|-------|-------|
| (MCNTH) |      | = 1 =       | = 2 = | = 3 = | = 4 = | = 5 = | = 6 = |
| 0- 3    | NO.  | 11          | 17    | 27    | 20    | 19    | 22    |
|         | MEAN | 5.690       | 5.741 | 4.814 | 5.479 | 4.631 | 5.254 |
|         | S.D  | 1.723       | 1.849 | 1.347 | 1.431 | 1.738 | 1.498 |
| 3- 6    | NO.  | 29          | 27    | 22    | 28    | 11    | 27    |
|         | MEAN | 5.982       | 5.385 | 5.668 | 5.607 | 6.109 | 5.496 |
|         | S.D  | 1.566       | 1.321 | 1.666 | 1.390 | 1.114 | 1.620 |
| 6- 9    | NO.  | 33          | 23    | 28    | 25    | 32    | 25    |
|         | MEAN | 6.227       | 5.891 | 5.667 | 5.723 | 5.456 | 5.771 |
|         | S.D  | 1.525       | 1.393 | 1.316 | 1.563 | 1.052 | 1.680 |
| 9-12    | NO.  | 28          | 22    | 29    | 34    | 21    | 16    |
|         | MEAN | 5.257       | 5.645 | 5.365 | 5.549 | 5.228 | 5.574 |
|         | S.D  | 1.093       | 1.322 | 1.071 | 1.341 | 1.520 | 1.001 |
| 12-15   | NO.  | 22          | 24    | 27    | 21    | 32    | 33    |
|         | MEAN | 5.077       | 5.104 | 5.062 | 5.352 | 4.931 | 4.833 |
|         | S.D  | 0.887       | 0.975 | 1.138 | 1.519 | 1.081 | 1.080 |
| 15-18   | NO.  | 32          | 32    | 25    | 29    | 20    | 19    |
|         | MEAN | 5.374       | 4.818 | 4.759 | 4.775 | 4.804 | 4.789 |
|         | S.D  | 1.101       | 1.011 | 1.141 | 1.032 | 0.819 | 1.295 |
| 18-21   | NO.  | 25          | 18    | 23    | 20    | 27    | 21    |
|         | MEAN | 5.183       | 4.788 | 5.199 | 5.239 | 5.074 | 5.685 |
|         | S.D  | 1.302       | 1.082 | 1.172 | 1.102 | 1.020 | 1.214 |
| 21-24   | NO.  | 24          | 23    | 22    | 18    | 27    | 27    |
|         | MEAN | 5.058       | 5.326 | 5.372 | 5.399 | 5.014 | 4.937 |
|         | S.D  | 1.443       | 1.146 | 1.322 | 1.243 | 1.071 | 1.268 |
| 24-27   | NO.  | 17          | 26    | 31    | 34    | 26    | 18    |
|         | MEAN | 5.276       | 5.453 | 5.083 | 5.147 | 5.234 | 4.811 |
|         | S.D  | 1.234       | 1.117 | 1.265 | 1.320 | 1.184 | 1.039 |



## AND BIRTH ORDER (BOTH SEXS)

\*\*\*\*\*

= 7 =    = 8 =    = 9 =    = 10 =    = 11 =    = 12 =

\*\*\*\*\*

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 26    | 13    | 5     | 3     | 4     | 2     |
| 5.603 | 4.938 | 5.159 | 5.399 | 6.500 | 3.599 |
| 1.573 | 1.418 | 0.517 | 1.637 | 1.446 | 0.565 |

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 11    | 10    | 7     | 4     | 1     | 3     |
| 4.927 | 5.729 | 5.142 | 5.500 | 3.800 | 5.866 |
| 0.976 | 1.321 | 1.839 | 1.101 | 0.000 | 1.171 |

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 14    | 14    | 12    | 2     | 5     | 1     |
| 5.171 | 5.799 | 5.124 | 5.500 | 5.399 | 6.199 |
| 1.023 | 1.771 | 0.903 | 1.272 | 0.282 | 0.000 |

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 25    | 14    | 13    | 2     | 1     | 1     |
| 5.643 | 5.364 | 5.061 | 4.500 | 4.600 | 5.199 |
| 1.364 | 1.263 | 0.946 | 1.838 | 0.000 | 0.000 |

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 15    | 12    | 11    | 4     | 0     | 1     |
| 5.299 | 5.291 | 4.981 | 4.875 | 0.000 | 5.000 |
| 1.434 | 1.647 | 1.312 | 0.649 | 0.000 | 0.000 |

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 20    | 14    | 7     | 5     | 2     | 1     |
| 4.554 | 4.857 | 4.800 | 3.999 | 5.400 | 3.400 |
| 1.169 | 0.892 | 0.923 | 0.748 | 1.414 | 0.000 |

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 18    | 14    | 4     | 3     | 0     | 1     |
| 5.099 | 4.942 | 5.399 | 5.066 | 0.000 | 4.400 |
| 1.192 | 1.472 | 1.897 | 0.416 | 0.000 | 0.000 |

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 18    | 11    | 8     | 3     | 0     | 1     |
| 5.355 | 4.909 | 4.924 | 4.966 | 0.000 | 3.400 |
| 1.078 | 0.760 | 0.943 | 0.404 | 0.000 | 0.000 |

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 21    | 13    | 7     | 5     | 3     | 1     |
| 5.209 | 4.915 | 5.228 | 4.519 | 4.865 | 5.000 |
| 1.340 | 1.154 | 0.604 | 0.672 | 1.154 | 0.000 |

6  
 MEAN SUBSCAPULAR SKINFOLD THICKNESS (MM) BY AGE AND BIRTH ORDER (COMBINED)

CHILD GROWTH SURVEY - AMMAN

BIRTH ORDER

AGE (MONTH) \* = 1 = 2 = 3 = 4 = 5 = 6 = 7 = 8 = 9 = 10 = 11 = 12 =

| AGE (MONTH) | NO.  | MEAN  | S.D.  | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10     | 11    | 12    |
|-------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 0-3         | NO.  | 11    | 17    | 19    | 20    | 22    | 26    | 13    | 5     | 3     | 4     | 2     |        |       |       |
|             | MEAN | 6.850 | 6.588 | 5.896 | 6.904 | 5.610 | 5.904 | 6.492 | 6.523 | 6.439 | 6.399 | 6.399 | 6.399  | 6.399 | 4.199 |
|             | S.D. | 1.667 | 2.461 | 1.619 | 2.545 | 2.769 | 2.627 | 3.093 | 2.632 | 1.907 | 2.658 | 1.131 |        |       |       |
| 3-6         | NO.  | 29    | 27    | 28    | 28    | 27    | 11    | 10    | 7     | 4     | 1     | 3     |        |       |       |
|             | MEAN | 7.975 | 7.099 | 7.277 | 7.949 | 7.254 | 7.403 | 7.909 | 7.285 | 6.750 | 5.400 | 6.999 |        |       |       |
|             | S.D. | 2.616 | 2.978 | 2.819 | 2.872 | 2.346 | 3.144 | 1.999 | 2.874 | 2.547 | 0.001 | 1.113 |        |       |       |
| 6-9         | NO.  | 33    | 23    | 28    | 25    | 32    | 14    | 14    | 12    | 1     | 5     | 1     |        |       |       |
|             | MEAN | 7.287 | 7.617 | 6.278 | 6.527 | 6.312 | 7.135 | 6.221 | 7.309 | 6.476 | 9.1   | 8.079 | 10.000 |       |       |
|             | S.D. | 2.240 | 2.690 | 1.852 | 1.857 | 1.553 | 2.408 | 2.113 | 2.525 | 2.403 | 0.001 | 1.603 | 0.001  |       |       |
| 9-12        | NO.  | 28    | 22    | 29    | 34    | 21    | 16    | 14    | 13    | 2     | 1     | 1     |        |       |       |
|             | MEAN | 5.992 | 6.627 | 6.679 | 6.902 | 5.852 | 6.762 | 6.447 | 6.957 | 6.276 | 6.399 | 7.000 | 5.000  |       |       |
|             | S.D. | 1.570 | 2.423 | 2.408 | 2.778 | 1.923 | 1.859 | 2.124 | 2.280 | 2.292 | 0.001 | 0.000 | 0.000  |       |       |
| 12-15       | NO.  | 22    | 24    | 27    | 21    | 32    | 15    | 12    | 11    | 4     | 0     | 1     |        |       |       |
|             | MEAN | 6.045 | 5.741 | 5.577 | 6.147 | 5.840 | 5.933 | 6.553 | 5.749 | 5.949 | 6.849 | 0.000 | 4.400  |       |       |
|             | S.D. | 1.501 | 1.838 | 1.652 | 2.516 | 1.943 | 1.897 | 2.679 | 1.862 | 1.614 | 1.857 | 0.000 | 0.000  |       |       |
| 15-18       | NO.  | 32    | 32    | 25    | 29    | 19    | 20    | 14    | 7     | 5     | 2     | 1     |        |       |       |
|             | MEAN | 6.374 | 5.446 | 5.375 | 5.672 | 5.894 | 5.442 | 5.394 | 5.228 | 5.885 | 4.319 | 4.899 | 4.199  |       |       |
|             | S.D. | 2.092 | 1.699 | 2.594 | 1.762 | 1.853 | 2.081 | 1.899 | 1.416 | 2.468 | 1.229 | 0.424 | 0.000  |       |       |
| 18-21       | NO.  | 25    | 18    | 23    | 20    | 27    | 18    | 14    | 4     | 3     | 0     | 1     |        |       |       |
|             | MEAN | 5.827 | 5.527 | 5.965 | 5.124 | 5.644 | 7.080 | 5.477 | 5.571 | 6.399 | 4.733 | 0.000 | 4.199  |       |       |
|             | S.D. | 2.615 | 1.610 | 2.166 | 1.533 | 1.418 | 2.833 | 1.534 | 1.982 | 2.615 | 0.611 | 0.000 | 0.000  |       |       |
| 21-24       | NO.  | 24    | 23    | 22    | 18    | 27    | 18    | 11    | 8     | 3     | 0     | 1     |        |       |       |
|             | MEAN | 5.337 | 5.691 | 5.340 | 5.516 | 5.696 | 5.807 | 6.283 | 5.963 | 5.999 | 4.600 | 0.000 | 4.400  |       |       |
|             | S.D. | 2.227 | 1.839 | 1.861 | 1.165 | 1.689 | 1.832 | 2.258 | 1.781 | 2.130 | 1.199 | 0.000 | 0.000  |       |       |
| 24-27       | NO.  | 17    | 26    | 31    | 34    | 18    | 21    | 13    | 7     | 5     | 3     | 1     |        |       |       |
|             | MEAN | 6.223 | 5.707 | 5.990 | 6.338 | 6.676 | 5.772 | 5.809 | 5.315 | 6.285 | 7.239 | 4.933 | 5.400  |       |       |
|             | S.D. | 1.372 | 1.668 | 2.488 | 2.225 | 2.652 | 2.247 | 2.327 | 1.414 | 1.832 | 2.703 | 1.628 | 0.001  |       |       |