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INTERCORRELATIONS AND SELECTED DESCRIPTIVE STATISTICS  
FOR 96 ANTHROPOMETRIC MEASURES ON  
1549 NAVAL AVIATION PERSONNEL

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and

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A previous report by Moroney and Smith showed the need for designers to consider the correlations between anthropometric features when designing workspaces. It was proposed that both the correlations between anthropometric features and normal bivariate distributions for specific correlations be made available to designers.

This report makes the correlations between 96 anthropometric features available to designers. The normal bivariate frequency distributions will be made available in subsequent reports.

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## SUMMARY PAGE

### THE PROBLEM

A previous report by Moroney and Smith showed the need for designers to consider the correlations between anthropometric features when designing workspaces. It was proposed that both the correlations between anthropometric features and normal bivariate distributions for specific correlations be made available to designers.

### THE FINDINGS

This report makes the correlations between 96 anthropometric features available to designers. The bivariate normal frequency distributions will be made available in subsequent reports.

## INTRODUCTION

An earlier report by Moroney and Smith (6) demonstrated an extreme reduction in potential user population as a result of the use of pre-established anthropometric percentile design limits. They examined thirteen cockpit/console-related anthropometric features of 1547 naval aviation personnel to determine the per cent of individuals not included within the routinely imposed 5th and 95th and 3rd and 98th percentile limits. When the 5th and 95th percentile limits were used, 52.6 per cent of the potential user population exceeded these limits for at least one of the thirteen anthropometric features. When the 3rd and 98th percentile limits were used, 32.2 per cent of the potential user population exceeded these limits for at least one of the thirteen anthropometric features. The elimination of such a considerable proportion of the potential user population results from the fact that variables used in establishing design limits are often only moderately correlated with one another, and persons with extreme values on one variable are likely to be near average on another. Moroney and Smith proposed the use of generalized bivariate normal frequency distributions. These distributions were derived, in part, from data contained in Tables of the Bivariate Normal Distribution Functions and Related Functions (7). Twenty-five bivariate normal frequency distributions were prepared for specific correlation values (from 0.00 to 0.95 in steps of 0.05 and from 0.96 - 1.00 in steps of 0.01) and are reported in both tabular (8) and figure (9) format.

If designers are aware of the correlations between the anthropometric features of interest, they can consult either the tables or the figures and determine, at least for two variables, what proportion of the population their design decisions will include or exclude. The purpose of this report is to make those required correlational data available to designers.

Designers who might employ these correlation tables are cautioned to use correlations derived from a population most similar to that to which the results will be applied. Considerable differences may exist among the inter-correlations between variables for different populations. These differences can most probably be attributed to the unique characteristics of the population (race, age, etc.) and/or to artificial restrictions imposed for acceptance into the population (e.g., within military organizations minimum and maximum weights are established for specified heights). The correlation between height and weight can provide a useful illustration: for the sample of naval aviators under consideration  $r = .537$ ; for USAF women  $r = .533$  (2); and for U. S. Army aviators  $r = .442$  (1).

## PROCEDURE

In 1965, Gifford, Provost and Lazo (4) reported on 96 anthropometric features of 1549 naval aviation personnel, who satisfied their criterion as naval aviators. Their sample size comprised slightly more than 10 per cent of the Navy and Marine Corps aviator population. The correlations coefficients contained in the following tables were computed on these data. A listing of the anthropometric features comprising the 96 x 96 correlation matrix is presented on page four. Definitions and descriptions of the measurements collected are contained in a report by Hertzberg, Daniels and Churchill (5).

In addition to the correlations, some common statistical measures were chosen to summarize the measurement data. Briefly described the statistics are:

- 1) Mean - Specifically, the arithmetic mean or average which is the sum of the values ( $\Sigma X$ ) divided by the number of values (N).

$$(M = \frac{\Sigma X}{N})$$

- 2) Standard Deviation - A basic measure of variability about the mean.

$$(SD = \sqrt{\frac{\Sigma (X-M)^2}{N}})$$

- 3) Range - Statement of the highest and lowest values.

- 4) Median - That point below or above which half of the measurements collected for a particular anthropometric feature fall (50th percentile).

- 5) 2nd percentile - A point at or below which 2 per cent of the measurements fall.

- 6) 98th percentile - A point at or below which 98 per cent of the measurements fall.

- 7) Skewness - A measure of symmetry of the distribution of values. Negative values of skewness indicate a distribution with the left tail extending out further than the right tail, and positive values indicate the converse. A normal distribution has a skewness of 0.

$$(SKEW = \frac{\Sigma (X-M)^3}{N(SD)^3})$$

- 8) Kurtosis - A measure which describes the shape of the distributions. Negative values of kurtosis indicate a flat or platykurtic distribution, a rectangular distribution has a kurtosis of -2, the maximum negative value. Positive values indicate a peaked or leptokurtic distribution. A normal distribution (mesokurtic) has a kurtosis of 0.

$$(\text{Kurtosis} = \frac{\sum (X-M)^4}{N(SD)^4} - 3)$$

Readers desiring a more detailed description of the above terms, particularly as they relate to anthropometry, may examine the works of Churchill, McConville, Laubach and White (1), or Damon, Stoudt and MaFarland (3).

### LISTING OF ANTHROPOMETRIC FEATURES

<u>Table Number</u>	<u>Feature</u>	<u>Table Number</u>	<u>Feature</u>
<b>MASS MEASUREMENT</b>			
1	Weight	52	Foot Length
<b>LENGTH MEASUREMENTS</b>			
2	Stature	53	Foot Breadth
3	Tragion Height	54	Hand Length
4	Cervicale Height	55	Hand Breadth
5	Suprasternal Height	56	Hand Breadth at Thumb
6	Nipple (Chest) Height	57	Thickness at Metacarpal III
7	Waist Height	58	Hand Circumference
8	Penile Height	59	Hand Circumference at Thumb
9	Gluteal Furrow Height	<b>HEAD &amp; FACE MEASUREMENTS</b>	
10	Crotch Height	60	Head Circumference
11	Patella Height	61	Sagittal Arc
12	Sitting Height	62	Bitragion-Coronal Arc
13	Eye Height Sitting	63	Bitragion-Minimum Frontal Arc
14	Shoulder Height Sitting	64	Bitragion-Subnasale Arc
15	Elbow Rest Height	65	Bitragion-Menton Arc
16	Knee Height Sitting	66	Bitragion-Submandibular Arc
17	Popliteal Height Sitting	67	Bitragion-Inion Arc
18	Buttock-Popliteal Length	68	Head Length
19	Buttock-Knee Length	69	Tragion to Wall
20	Shoulder-Elbow Length	70	Nasal Root to Wall
21	Forearm-Hand Length	71	Pronasale to Wall
22	Functional Reach	72	External Canthus to Wall
<b>BREADTH MEASUREMENTS</b>			
23	Bideltoid Diameter	73	Head Breadth
24	Chest Breadth	74	Bitragion Diameter
25	Waist Breadth	75	Maximum Frontal Diameter
26	Hip Breadth	76	Bizygomatic Diameter
27	Chest Depth	77	Bigonial Diameter
28	Waist Depth	78	Biocular Diameter
29	Buttock Depth	79	Interpupillary Distance
30	Hip Breadth-Sitting	80	Interocular Diameter
<b>CIRCUMFERENCE &amp; BODY SURFACE MEASUREMENTS</b>			
31	Neck Circumference	81	Nasal Root Breadth
32	Shoulder Circumference	82	Nose Breadth
33	Chest Circumference	83	Lip Length
34	Waist Circumference	84	Menton-Subnasale Length
35	Buttock Circumference	85	Menton-Vertex Height
36	Buttock Circumference Sitting	86	Head Height (Tragion to Vertex)
37	Thigh Circumference	87	Lip-to-Lip Distance
38	Lower Thigh Circumference	88	Nose Length
39	Calf Circumference	89	Nose Protrusion
40	Ankle Circumference	90	Ear Length
41	Scye Circumference	91	Ear Breadth
42	Axillary Arm Circumference	92	Ear Protrusion
43	Biceps Circumference	93	SKINFOLD MEASUREMENTS
44	Lower Arm Circumference	94	Subscapular Skinfold
45	Wrist Circumference	95	Juxta-Nipple Skinfold
46	Sleeve Inseam	96	Back of Arm Skinfold
47	Sleeve Length (Spine-Wrist)	Mid/Axillary Line at Umbilicus Skinfold	
48	Gluteal Arc		
49	Vertical Trunk Circumference		
50	Interscye		
51	Interscye Maximum		





No.	3. Tragion Height	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		64.90	2.27	58.3 - 72.0	60.6	64.8	69.6	0.1178	-0.3585
1.	Weight	.532		33. Chest Circumference	.224	65. Bitragion-Menton Arc		.319	
2.	Stature	.986		34. Waist Circumference	.214	66. Bitragion-Submandibular Arc		.298	
3.	Tragion Height			35. Buttock Circumference	.350	67. Bitragion-Inion Arc		.116	
4.	Cervicale Height	.960		36. Buttock Circumference Sitting	.359	68. Head Length		.202	
5.	Supraستernal Height	.967		37. Thigh Circumference	.206	69. Tragion to Wall		.113	
6.	Nipple (Chest) Height	.937		38. Lower Thigh Circumference	.211	70. Nasal Root to Wall		.214	
7.	Waist Height	.907		39. Calf Circumference	.248	71. Pronasale to Wall		.297	
8.	Penale Height	.832		40. Ankle Circumference	.345	72. External Canthus to Wall		.202	
9.	Gluteal Furrow Height	.853		41. Scye Circumference	.338	73. Head Breadth		.097	
10.	Crotch Height	.830		42. Axillary Arm Circumference	.141	74. Bitragion Diameter		.157	
11.	Patella Height	.772		43. Biceps Circumference	.152	75. Maximum Frontal Diameter		.116	
12.	Sitting Height	.746		44. Lower Arm Circumference	.299	76. Bizygomatic Diameter		.113	
13.	Eye Height Sitting	.732		45. Wrist Circumference	.422	77. Bigonial Diameter		.090	
14.	Shoulder Height Sitting	.627		46. Sleeve Inseam	.715	78. Biocular Diameter		.138	
15.	Elbow Rest Height	.205		47. Sleeve Length (Srine-Wrist)	.717	79. Interpupillary Distance		.123	
16.	Knee Height Sitting	.809		48. Gluteal Arc	.358	80. Interocular Diameter		.653	
17.	Popliteal Height Sitting	.769		49. Vertical Trunk Circumference	.624	81. Nasal Root Breadth		.073	
18.	Buttock-Popliteal Length	.673		50. Interscye	.173	82. Nose Breadth		.055	
19.	Buttock-Knee Length	.774		51. Interscye Maximum	.267	83. Lip Length		.662	
20.	Shoulder-Elbow Length	.674		52. Foot Length	.657	84. Menton-Subnasale Length		.182	
21.	Forearm-Hand Length	.760		53. Foot Breadth	.245	85. Menton-Vertex Height		.182	
22.	Functional Reach	.676		54. Hand Length	.594	86. Head Height (Tragion to Vertex)		.124	
23.	Bideltoid Diameter	.324		55. Hand Breadth	.391	87. Lip-to-Lip Distance		.132	
24.	Chest Breadth	.216		56. Hand Breadth at Thumb	.447	88. Nose Length		.171	
25.	Waist Breadth	.279		57. Thickness at Metacarpal III	.218	89. Nose Protrusion		.163	
26.	Hip Breadth	.406		58. Hand Circumference	.391	90. Ear Length		.184	
27.	Chest Depth	.168		59. Hand Circumference at Thumb	.436	91. Ear Breadth		.168	
28.	Waist Depth	.163		60. Head Circumference	.209	92. Ear Protrusion		.083	
29.	Buttock Depth	.169		61. Sagittal Arc	.115	93. Subscapular Skinfold		.039	
30.	Hip Breadth Sitting	.350		62. Bitragion-Coronel Arc	.181	94. Juxta-Nipple Skinfold		.002	
31.	Neck Circumference	.228		63. Bitragion-Minimum Frontal Arc	.151	95. Back of Arm Skinfold		.030	
32.	Shoulder Circumference	.293		64. Bitragion-Subnasale Arc	.216	96. Mid/Axillary Line at Umbilious Skin Fold		.046	

No. 4. Cervicale Height

	<u>Mean</u>	<u>S.D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
1. Weight	.538		33. Chest Circumference	.233				.307
2. Stature	.962		34. Waist Circumference	.252				.276
3. Tragion Height	.960		35. Buttock Circumference	.355				.139
4. Cervicale Height			36. Buttock Circumference Sitting	.363				.198
5. Suprasternale Height	.948		37. Thigh Circumference	.224				.113
6. Nipple (Chest) Height	.917		38. Lower Thigh Circumference	.196				.207
7. Waist height	.903		39. Calf Circumference	.245				.301
8. Penale Height	.836		40. Ankle Circumference	.350				.209
9. Gluteal Furrow Height	.867		41. Scye Circumference	.342				.103
10. Crotch Height	.820		42. Axillary Arm Circumference	.128				.186
11. Patella Height	.777		43. Biceps Circumference	.142				.089
12. Sitting Height	.696		44. Lower Arm Circumference	.275				.086
13. Eye Height Sitting	.771		45. Wrist Circumference	.402				.086
14. Shoulder Height Sitting	.622		46. Sleeve Inseam	.708				.130
15. Elbow Rest Height	.184		47. Sleeve Length (Spine-Wrist)	.711				.134
16. Knee Height Sitting	.826		48. Gluteal Arc	.328				.065
17. Popliteal Height Sitting	.778		49. Vertical Trunk Circumference	.611				.049
18. Buttock-Popliteal Length	.686		50. Interscye	.162				.067
19. Buttock-Knee Length	.795		51. Interscye Maximum	.254				.052
20. Shoulder-Elbow Length	.698		52. Foot Length	.656				.186
21. Forearm-Hand Length	.762		53. Foot Breadth	.243				.150
22. Functional Reach	.661		54. Hand Length	.619				.146
23. Bideitoid Diameter	.330		55. Hand Breadth	.356				.128
24. Chest Breadth	.226		56. Hand Breadth at Thumb	.443				.163
25. Waist Breadth	.316		57. Thickness at Metacarpal III	.245				.142
26. Hip Breadth	.411		58. Hand Circumference	.387				.188
27. Chest Depth	.194		59. Hand Circumference at Thumb	.410				.168
28. Waist Depth	.198		60. Head Circumference	.211				.084
29. Buttock Depth	.199		61. Sagittal Arc	.107				.005
30. Hip Breadth Sitting	.385		62. Bitragion-Coronal Arc	.198				.052
31. Neck Circumference	.231		63. Bitragion-Minimum Frontal Arc	.166				.024
32. Shoulder Circumference	.292		64. Bitragion-Subnasale Arc	.226				.058

## No. 5. Suprasternale Height

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>5th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	57.20	2.16	51.3 - 63.6	53.2	57.1	61.4	0.11227	-0.3988

1. Weight .567  
 2. Stature .964  
 3. Tragion Height .967  
 4. Cervicale Height .948  
 5. Suprasternale Height .952  
 6. Nipple (Chest) Height .912  
 7. Waist Height .840  
 8. Penile Height .867  
 9. Gluteal Furrow Height .839  
 10. Crotch Height .793  
 11. Patella Height .687  
 12. Sitting Height .674  
 13. Eye Height Sitting .604  
 14. Shoulder Height Sitting .179  
 15. Elbow Rest Height .823  
 16. Knee Height Sitting .764  
 17. Popliteal Height Sitting .686  
 18. Buttock-Popliteal Length .802  
 19. Buttock-Knee Length .674  
 20. Shoulder-Elbow Length .757  
 21. Forearm-Hand Length .679  
 22. Functional Reach .348  
 23. Bideitoid Diameter .256  
 24. Chest Breadth .230  
 25. Waist Breadth .436  
 26. Hip Breadth .226  
 27. Chest Depth .211  
 28. Waist Depth .224  
 29. Buttock Depth .382  
 30. Hip Breadth-Sitting .251  
 31. Neck Circumference .328  
 33. Chest Circumference .279  
 34. Waist Circumference .266  
 35. Buttock Circumference .388  
 36. Buttock Circumference Sitting .400  
 37. Thigh Circumference .250  
 38. Lower Thigh Circumference .246  
 39. Calf Circumference .274  
 40. Ankle Circumference .352  
 41. Seye Circumference .367  
 42. Axillary Arm Circumference .181  
 43. Biceps Circumference .197  
 44. Lower Arm Circumference .320  
 45. Wrist Circumference .420  
 46. Sleeve Inseam .709  
 47. Sleeve Length (Spine-Wrist) .726  
 48. Gluteal Arc .553  
 49. Vertical Trunk Circumference .636  
 50. Interscye .185  
 51. Interscye Maximum .290  
 52. Foot Length .648  
 53. Foot Breadth .236  
 54. Hand Length .588  
 55. Hand Breadth .379  
 56. Hand Breadth at Thumb .433  
 57. Thickness at Metacarpal III .210  
 58. Hand Circumference .379  
 59. Hand Circumference at Thumb .430  
 60. Head Circumference .230  
 61. Sagittal Arc .105  
 62. Bitragion-Coronal Arc .194  
 63. Bitragion-Minimum Frontal Arc .167  
 64. Bitragion-Subnasale Arc .228  
 65. Bitragion-Menton Arc .320  
 66. Bitragion-Submandibular Arc .307  
 67. Bitragion-Inion Arc .111  
 68. Head Length .214  
 69. Tragion to Wall .120  
 70. Nasal Root to Wall .225  
 71. Pronasale to Wall .302  
 72. External Canthus to Wall .215  
 73. Head Breadth .110  
 74. Bitragion Diameter .171  
 75. Maximum Frontal Diameter .132  
 76. Bzygomatric Diameter .127  
 77. Bicipital Diameter .115  
 78. Biocular Diameter .148  
 79. Interpupillary Distance .127  
 80. Interocular Diameter .047  
 81. Nasal Root Breadth .075  
 82. Nose Breadth .064  
 83. Lip Length .067  
 84. Menton-Subnasale Length .164  
 85. Menton-Yer ex Height .175  
 86. Head Height (Tragion to Vertex) .132  
 87. Lip-o-Lip Distance .125  
 88. Nose Length .163  
 89. Nose Protrusion .166  
 90. Ear Length .190  
 91. Ear Breadth .174  
 92. Ear Protrusion .079  
 93. Subscapular Skinfold .015  
 94. Juxta-Nipple Skinfold .049  
 95. Back of Arm Skinfold .003  
 96. Mid/Axillary Line at Umbilicus Skin Fold .095

No. 6. Nipple (Chest) Height	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
	51.08	2.02	44.8 - 57.1	47.3	51.0	55.3	0.0985	-0.3522
1. Weight	.493		32. Chest Circumference	.223	65. Bitrachelion-Menton Arc	.291		
2. Stature	.933		34. Waist Circumference	.196	66. Bitrachelion-Submandibular Arc	.274		
3. Tragion Height	.937		35. Buttock Circumference	.320	67. Bitrachelion-Inion Arc	.072		
4. Cervicale Height	.917		36. Buttock Circumference Sitting	.337	68. Head Length	.196		
5. Supra sternale Height	.952		37. Thigh Circumference	.190	69. Tragion to Wall	.085		
6. Nipple (Chest) Height	.908		38. Lower Thigh Circumference	.211	70. Nasal Root to Wall	.193		
7. Waist height	.836		39. Calf Circumference	.227	71. Pronasale to Wall	.279		
8. Penale Height	.863		40. Ankle Circumference	.306	72. External Canthus to Wall	.188		
9. Gluteal Furrow Height	.834		41. Seye Circumference	.317	73. Head Breadth	.098		
10. Crotch Height	.780		42. Axillary Arm Circumference	.116	74. Bitrachelion Diameter	.155		
11. Patella Height	.639		43. Biceps Circumference	.145	75. Maximum Frontal Diameter	.124		
12. Sitting Height	.638		44. Lower Arm Circumference	.273	76. Bzygomatic Diameter	.098		
13. Eye Height Sitting	.588		45. Wrist Circumference	.376	77. Bigonial Diameter	.063		
14. Shoulder Height Sitting	.166		46. Sleeve Inseam	.716	78. Biocular Diameter	.147		
15. Elbow Rest Height	.811		47. Sleeve Length (Spine-Wrist)	.676	79. Interpupillary Distance	.131		
16. Knee Height Sitting	.749		48. Gluteal Arc	.357	80. Interocular Diameter	.059		
17. Popliteal Height Sitting	.680		49. Vertical Trunk Circumference	.568	81. Nasal Root Breadth	.100		
18. Buttock-Popliteal Length	.777		50. Interscye	.160	82. Nose Breadth	.049		
19. Buttock-Knee Length	.666		51. Interscye Maximum	.240	83. Lip Length	.091		
20. Shoulder-Elbow Length	.728		52. Foot Length	.593	84. Menton-Subnasale Length	.145		
21. Forearm-Hand Length	.639		53. Foot Breadth	.248	85. Menton-Vertex Height	.156		
22. Functional Reach	.303		54. Hand Length	.565	86. Head Height (Tragion to Vertex)	.124		
23. Bideitoid Diameter	.271		55. Hand Breadth	.356	87. Lip-to-Lip Distance	.139		
24. Chest Breadth	.267		56. Hand Breadth at Thumb	.405	88. Nose Length	.163		
25. Waist Breadth	.376		57. Thickness at Metacarpal III	.172	89. Nose Protrusion	.183		
26. Hip Breadth	.178		58. Hand Circumference	.352	90. Ear Length	.170		
27. Chest Depth	.152		59. Hand Circumference at Thumb	.390	91. Ear Breadth	.162		
28. Waist Depth	.171		60. Head Circumference	.200	92. Ear Protrusion	.089		
29. Buttock Depth	.322		61. Sagittal Arc	.071	93. Subscapular Skinfold	.024		
30. Hip Breadth-Sitting	.196		62. Bitrachelion-Coronal Arc	.162	94. Juxta-Nipple Skinfold	.003		
31. Neck Circumference	.260		63. Bitrachelion-Minimum Frontal Arc	.152	95. Back of Arm Skinfold	-.026		
32. Shoulder Circumference			64. Bitrachelion-Subnasale Arc	.215	96. Mid/Axillary Line at Ursilious Skin Fold	.048		

## No. 7. Waist Height

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
1. Weight	.433		33. Chest Circumference	.176		65. Bitragion-Menton Arc	.260	
2. Stature	.905		34. Waist Circumference	.139		66. Bitragion-Submandibular Arc	.222	
3. Tragion Height	.907		35. Buttock Circumference	.261		67. Bitragion-Inion Arc	.086	
4. Cervicale Height	.903		36. Buttock Circumference Sitting	.258		68. Head Length	.180	
5. Supra sternale Height	.912		37. Thigh Circumference	.140		69. Tragion to Wall	.109	
6. Nipple (Chest) Height	.908		38. Lower Thigh Circumference	.139		70. Nasal Root to Wall	.189	
7. Waist height	.908		39. Calf Circumference	.182		71. Pronasale to Wall	.273	
8. Penalis Height	.915		40. Ankle Circumference	.278		72. External Canthus to Wall	.182	
9. Gluteal Furrow Height	.896		41. Scye Circumference	.271		73. Head Breadth	.078	
10. Crotch Height	.880		42. Axillary Arm Circumference	.093		74. Bitragion Diameter	.125	
11. Patella Height	.800		43. Biceps Circumference	.091		75. Maximum Frontal Diameter	.113	
12. Sitting Height	.547		44. Lower Arm Circumference	.228		76. Bizygomatic Diameter	.100	
13. Eye Height Sitting	.533		45. Wrist Circumference	.330		77. Bigonial Diameter	.077	
14. Shoulder Height Sitting	.475		46. Sleeve Inseam	.743		78. Bicocular Diameter	.150	
15. Elbow Rest Height	.045		47. Sleeve Length (Spine-Wrist)	.708		79. Interpupillary Distance	.122	
16. Knee Height Sitting	.824		48. Gluteal Arc	.375		80. Interocular Diameter	.048	
17. Popliteal Height Sitting	.813		49. Vertical Trunk Circumference	.470		81. Nasal Root Breadth	.075	
18. Buttock-Popliteal Length	.691		50. Interscye	.155		82. Nose Breadth	.033	
19. Buttock-Knee Length	.781		51. Interscye Maximum	.227		83. Lip Length	.046	
20. Shoulder-Elbow Length	.669		52. Foot Length	.615		84. Menton-Subnasale Length	.159	
21. Forearm-Hand Length	.761		53. Foot Breadth	.210		85. Menton-Vertex Height	.138	
22. Functional Reach	.674		54. Hand Length	.570		86. Head Height (Tragion to Vertex)	.118	
23. Bideltoid Diameter	.271		55. Hand Breadth	.327		87. Lip-to-Lip Distance	.148	
24. Chest Breadth	.160		56. Hand Breadth at Thumb	.378		88. Nose Length	.148	
25. Waist Breadth	.212		57. Thickness at Metacarpal III	.177		89. Nose Protrusion	.139	
26. Hip Breadth	.315		58. Hand Circumference	.318		90. Ear Length	.129	
27. Chest Depth	.123		59. Hand Circumference at Thumb	.359		91. Ear Breadth	.131	
28. Waist Depth	.070		60. Head Circumference	.178		92. Ear Protrusion	.059	
29. Buttock Depth	.085		61. Sagittal Arc	.116		93. Subscapular Skinfold	.072	
30. Hip Breadth-Sitting	.264		62. Bitragion-Coronal Arc	.182		94. Juxta-Nipple Skinfold	.033	
31. Neck Circumference	.161		63. Bitragion-Minimum Frontal Arc	.121		95. Neck of Arm Skinfold	.047	
32. Shoulder Circumference	.242		64. Bitragion-Subnasale Arc	.165		96. Villary Line at Umbilicus Skin Fold	.029	

No.	8. Penile Height	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		35.02	1.67	29.2 - 40.9	31.8	35.0	38.5	0.0878	-0.0517
1.	Weight	.382		Chest Circumference	.167				
2.	Stature	.827		Waist Circumference	.123				
3.	Tragion Height	.832		Buttock Circumference	.223				
4.	Cervicale Height	.836		Buttock Circumference Sitting	.200				
5.	Suprasternale Height	.840		Thigh Circumference	.116				
6.	Nipple (Chest) Height	.836		Lower Thigh Circumference	.103				
7.	Waist height	.915		Calf Circumference	.162				
8.	Penale Height	.873		Ankle Circumference	.239				
9.	Gluteal Furore Height	.888		Scye Circumference	.240				
10.	Crotch Height	.789		Axillary Arm Circumference	.096				
11.	Patella Height	.402		Biceps Circumference	.080				
12.	Sitting Height	.396		Lower Arm Circumference	.210				
13.	Eye Height Sitting	.326		Wrist Circumference	.280				
14.	Shoulder Height Sitting	-.081		Sleeve Inseam	.746				
15.	Elbow Rest Height	.787		Sleeve Length (Spine-Wrist)	.697				
16.	Knee Height Sitting	.807		Gluetel Arc	.232				
17.	Popliteal Height Sitting	.681		Vertical Trunk Circumference	.368				
18.	Buttock-Popliteal Length	.769		Interscye Maximum	.154				
19.	Buttock-Knee Length	.633		Foot Length	.191				
20.	Shoulder-Elbow Length	.748		Hand Breadth	.589				
21.	Forearm-Hand Length	.676		Hand Length	.178				
22.	Functional Reach	.243		Hand Breadth	.530				
23.	Bideltoid Diameter	.134		Hand Circumference at Thumb	.280				
24.	Chest Breadth	.202		Hand Breadth at Thumb	.342				
25.	Waist Breadth	.270		Thickness at Metacarpal III	.161				
26.	Hip Breadth	.108		Hand Circumference	.267				
27.	Chest Depth	.046		Hand Circumference at Thumb	.314				
28.	Waist Depth	.050		Head Circumference	.165				
29.	Buttock Depth	.211		Sagittal Arc	.121				
30.	Hip Breadth-Sitting	.144		Bitragion-Coronal Arc	.165				
31.	Neck Circumference	.235		Bitragion-Minimum Frontal Arc	.096				
32.	Shoulder Circumference			Bitragion-Subnasale Arc	.123				
				Mid/Axillary Line at Umbilicus Skin Fold					

No. 9. Gluteal Furrow Height

	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
32.01	1.57	27.2 - 36.9	28.9	31.9	35.2	0.1160	-0.2609	
1. Weight	.420			.211				.240
2. Stature	.850			.199				.214
3. Tragion Height	.853			.237				.067
4. Cervicale Height	.867			.252				.155
5. Supra sternale Height	.867			.146				.082
6. Nipple (Chest) Height	.863			.133				.160
7. Waist Height	.890			.173				.256
8. Penale Height	.873			.252				.169
9. Gluteal Furrow Height	.887			.287				.064
10. Crotch Height	.800			.082				.138
11. Patella Height	.435			.110				.063
12. Sitting Height	.435			.236				.057
13. Eye Height Sitting	.392			.293				.033
14. Shoulder Height Sitting	-.071			.750				.107
15. Elbow Rest Height	.846			.690				.096
16. Knee Height Sitting	.808			.161				.052
17. Popiteal Height Sitting	.698			.382				.058
18. Buttock-Popliteal Length	.794			.146				.038
19. Buttock-Knee Length	.699			.186				.044
20. Shoulder Elbow Length	.759			.596				.161
21. Forearm-Hand Length	.759			.211				.099
22. Functional Reach	.671			.585				.088
23. Bideltoid Diameter	.267			.318				.138
24. Chest Breadth	.187			.368				.152
25. Waist Breadth	.263			.171				.145
26. Hip Breadth	.303			.323				.135
27. Chest Depth	.189			.241				.141
28. Waist Depth	.136			.153				.066
29. Buttock Depth	.123			.153				.020
30. Hip Breadth-Sitting	.266			.153				.024
31. Neck Circumference	.198			.175				.009
32. Shoulder Circumference	.248							.026

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33. Chest Circumference	.211	65. Bitragion-Menton Arc	.240
34. Waist Circumference	.199	66. Bitragion-Submandibular Arc	.214
35. Buttock Circumference	.237	67. Bitragion-Inion Arc	.067
36. Buttock Circumference Sitting	.252	68. Head Length	.155
37. Thigh Circumference	.146	69. Tragion to Wall	.082
38. Lower Thigh Circumference	.133	70. Nasal Root to Wall	.160
39. Calf Circumference	.173	71. Pronasale to Wall	.256
40. Ankle Circumference	.252	72. External Canthus to Wall	.169
41. Scye Circumference	.287	73. Head Breadth	.064
42. Axillary Arm Circumference	.082	74. Bitragion Diameter	.138
43. Biceps Circumference	.110	75. Maximum Frontal Diameter	.063
44. Lower Arm Circumference	.236	76. Bzygomatic Diameter	.057
45. Wrist Circumference	.293	77. Bigonial Diameter	.033
46. Sleeve Inseam	.750	78. Siocular Diameter	.107
47. Sleeve Length (Spine-Wrist)	.690	79. Interpupillary Distance	.096
48. Gluteal Arc	.161	80. Interocular Diameter	.052
49. Vertical Trunk Circumference	.382	81. Nasal Root Breadth	.058
50. Interscye	.146	82. Nose Breadth	.038
51. Interscye Maximum	.186	83. Lip Length	.044
52. Foot Length	.596	84. Menton-Subnasale Length	.161
53. Foot Breadth	.211	85. Menton-Vertex Height	.099
54. Hand Length	.585	86. Head Height (Tragion to Vertex)	.088
55. Hand Breadth	.318	87. Lip-to-Lip Distance	.138
56. Hand Breadth at Thumb	.368	88. Nose Length	.152
57. Thickness at Metacarpal III	.171	89. Nose Protrusion	.145
58. Hand Circumference	.323	90. Ear Length	.135
59. Hand Circumference at Thumb	.241	91. Ear Breadth	.141
60. Head Circumference	.153	92. Ear Protrusion	.066
61. Sagittal Arc	.049	93. Subscapular Skinfold	.020
62. Bitragion-Coronal Arc	.133	94. Juxta-Nipple Skinfold	.024
63. Bitragion-Minimum Frontal Arc	.114	95. Back of Arm Skinfold	.009
64. Bitragion-Subnasale Arc	.175	96. Mid/Axillary Line at Umbilicus Skin Fold	.026

No.	10. Crotch Height	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		33.21	1.62	28.2 - 38.7	30.1	33.1	36.6	0.1359	-0.2395
1.	Weight	.353		33. Chest Circumference	.155				.207
2.	Stature	.823		34. Waist Circumference	.115				.185
3.	Tragion Height	.830		35. Buttock Circumference	.193				.064
4.	Cervicale Height	.820		36. Buttock Circumference Sitting	.193				.136
5.	Suprasternale Height	.839		37. Thigh Circumference	.097				.098
6.	Nipple (Chest) Height	.834		38. Lower Thigh Circumference	.145				.156
7.	Waist height	.880		39. Calf Circumference	.141				.245
8.	Penale Height	.888		40. Ankle Circumference	.211				.137
9.	Gluteal Furrow Height	.887		41. Scye Circumference	.238				.057
10.	Crotch Height			42. Axillary Arm Circumference	.053				.084
11.	Patella Height	.773		43. Biceps Circumference	.088				.106
12.	Sitting Height	.393		44. Lower Arm Circumference	.228				.101
13.	Eye Height Sitting	.394		45. Trist Circumference	.296				.057
14.	Shoulder Height Sitting	.331		46. Sleeve Inseam	.757				.144
15.	Elbow Rest Height	.082		47. Sleeve Length (Spine-Wrist)	.680				.087
16.	Knee Height Sitting	.781		48. Gluteal Arc	.225				.007
17.	Popliteal Height Sitting	.810		49. Vertical Trunk Circumference	.351				.079
18.	Buttock-Popliteal Length	.683		50. Interscye	.137				.003
19.	Buttock-Knee Length	.766		51. Interscye Maximum	.173				.029
20.	Shoulder-Elbow Length	.636		52. Foot Length	.592				.105
21.	Forearm-Hand Length	.754		53. Foot Breadth	.170				.077
22.	Functional Reach	.689		54. Hand Length	.526				.067
23.	Bideltoid Diameter	.185		55. Hand Breadth	.286				.139
24.	Chest Breadth	.130		56. Hand Breadth at Thumb	.326				.120
25.	Waist Breadth	.185		57. Thickness at Metacarpal III	.149				.145
26.	Hip Breadth	.274		58. Hand Circumference	.270				.091
27.	Chest Depth	.096		59. Hand Circumference at Thumb	.320				.130
28.	Waist Depth	.068		60. Head Circumference	.132				.047
29.	Buttock Depth	.046		61. Sagittal Arc	.096				.116
30.	Hip Breadth-Sitting	.176		62. Bitragion-Coronal Arc	.152				-.074
31.	Neck Circumference	.165		63. Bitragion-Minimum Frontal Arc	.065				.007
32.	Shoulder Circumference	.196		64. Bitragion-Subnasale Arc	.113				

No.	11. Patella Height	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		20.98	1.05	18.0 - 24.6	18.9	21.0	23.2	0.1290	-0.2094
1.	Weight	.438		33. Chest Circumference	.236				
2.	Stature	.772		34. Waist Circumference	.235				
3.	Tragion Height	.772		35. Buttock Circumference	.271				
4.	Cervicale Height	.777		36. Buttock Circumference Sitting	.295				
5.	Suprasternale Height	.793		37. Thigh Circumference	.161				
6.	Nipple (Chest) Height	.780		38. Lower Thigh Circumference	.211				
7.	Waist height	.800		39. Calf Circumference	.203				
8.	Penile Height	.789		40. Ankle Circumference	.287				
9.	Gluteal Furrow Height	.800		41. Scye Circumference	.332				
10.	Crotch Height	.773		42. Axillary Arm Circumference	.109				
11.	Patella Height			43. Biceps Circumference	.155				
12.	Sitting Height	.393		44. Lower Arm Circumference	.275				
13.	Eye Height Sitting	.412		45. Wrist Circumference	.347				
14.	Shoulder Height Sitting	.357		46. Sleeve Inseam	.689				
15.	Elbow Rest Height	-.063		47. Sleeve Length (Spine-Wrist)	.627				
16.	Knee Height Sitting	.822		48. Gluteal Arc	.240				
17.	Popliteal Height Sitting	.735		49. Vertical Trunk Circumference	.386				
18.	Buttock-Popliteal Length	.593		50. Interscye	.202				
19.	Buttock-Knee Length	.700		51. Interscye Maximum	.222				
20.	Shoulder-Elbow Length	.633		52. Foot Length	.551				
21.	Forearm-Hand Length	.700		53. Foot Breadth	.278				
22.	Functional Reach	.617		54. Hand Length	.547				
23.	Bideltoid Diameter	.312		55. Hand Breadth	.357				
24.	Chest Breadth	.240		56. Hand Breadth at Thumb	.382				
25.	Waist Breadth	.319		57. Thickness at Metacarpal III	.155				
26.	Hip Breadth	.322		58. Hand Circumference	.366				
27.	Chest Depth	.213		59. Hand Circumference at Thumb	.391				
28.	Waist Depth	.183		60. Head Circumference	.192				
29.	Buttock Depth	.185		61. Sagittal Arc	.009				
30.	Hip Breadth-Sitting	.292		62. Bitragion-Coronal Arc	.141				
31.	Neck Circumference	.227		63. Bitragion-Minimum Frontal Arc	.170				
32.	Shoulder Circumference	.226		64. Bitragion-Subnasale Arc	.215				
				65. Bitragion-Menton Arc	.285				
				66. Bitragion-Submandibular Arc	.275				
				67. Bitragion-Inion Arc	.006				
				68. Head Length	.193				
				69. Tragion to Wall	.076				
				70. Nasal Root to Wall	.192				
				71. Pronasale to Wall	.291				
				72. External Canthus to Wall	.188				
				73. Head Breadth	.106				
				74. Bitragion Diameter	.163				
				75. Maximum Frontal Diameter	.114				
				76. Bizygomatic Diameter	.094				
				77. Bigonial Diameter	.000				
				78. Biocular Diameter	.187				
				79. Interpupillary Distance	.158				
				80. Interocular Diameter	.096				
				81. Nasal Root Breadth	.124				
				82. Nose Breadth	.086				
				83. Lip Length	.135				
				84. Menton-Subnasale Length	.132				
				85. Menton-Vertex Height	.091				
				86. Head Height (Tragion to Vertex)	.120				
				87. Lip-to-Lip Distance	.158				
				88. Nose Length	.143				
				89. Nose Protrusion	.195				
				90. Ear Length	.147				
				91. Ear Breadth	.167				
				92. Ear Protrusion	.090				
				93. Subscapular Skinfold	-.031				
				94. Juxta-Nipple Skinfold	.010				
				95. Back of Arm Skinfold	-.010				
				96. Mid/Axillary Line at Umbilious Skin Fold	.035				



No. 13. Eye Height Sitting

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	31.57	1.18	28.1 - 35.6	29.2	31.5	34.2	0.1641	0.0843
1. Weight	.424		33. Chest Circumference	.144	65. Bifragion-Menton Arc	.277		
2. Stature	.734		34. Waist Circumference	.116	66. Bifragion-Submandibular Arc	.258		
3. Tragion Height	.732		35. Buttock Circumference	.306	67. Bifragion-Inion Arc	.089		
4. Cervicale Height	.671		36. Buttock Circumference Sitting	.321	68. Head Length	.168		
5. Suprasternale Height	.674		37. Thigh Circumference	.188	69. Tragion to Wall	.046		
6. Nipple (Chest) Height	.638		38. Lower Thigh Circumference	.198	70. Nasal Root to Wall	.163		
7. Waist height	.533		39. Calf Circumference	.238	71. Pronasale to Wall	.210		
8. Penale Height	.396		40. Ankle Circumference	.298	72. External Canthus to Wall	.152		
9. Gluteal Furrow Height	.435		41. Scye Circumference	.278	73. Head Breadth	.113		
10. Crotch Height	.394		42. Axillary Arm Circumference	.104	74. Bifragion Diameter	.162		
11. Patella Height	.402		43. Biceps Circumference	.169	75. Maximum Frontal Diameter	.077		
12. Sitting Height	.924		44. Lower Arm Circumference	.259	76. Bizygomatic Diameter	.121		
13. Eye Height Sitting			45. Wrist Circumference	.397	77. Bigonial Diameter	.046		
14. Shoulder Height Sitting			46. Sleeve Inseam	.373	78. Bicocular Diameter	.081		
15. Elbow Rest Height	.544		47. Sleeve Length (Spine-Wrist)	.441	79. Interpupillary Distance	.099		
16. Knee Height Sitting	.467		48. Gluteal Arc	.388	80. Interocular Diameter	.067		
17. Popliteal Height Sitting	.402		49. Vertical Trunk Circumference	.639	81. Nasal Root Breadth	.051		
18. Buttock-Popliteal Length	.322		50. Interscye	.113	82. Nose Breadth	.062		
19. Buttock-Knee Length	.392		51. Interscye Maximum	.235	83. Lip Length	.073		
20. Shoulder-Elbow Length	.428		52. Foot Length	.424	84. Menton-Subnasale Length	.211		
21. Forearm-Hand Length	.438		53. Foot Breadth	.227	85. Menton-Yerx Height	.199		
22. Functional Reach	.357		54. Hand Length	.399	86. Head Height (Tragion to Vertex)	.144		
23. Bicephaloid Diameter	.287		55. Hand Breadth	.343	87. Lip-to-Lip Distance	.097		
24. Chest Breadth	.170		56. Hand Breadth at Thumb	.401	88. Nose Length	.145		
25. Waist Breadth	.177		57. Thickness at Metacarpal III	.183	89. Nose Protrusion	.101		
26. Hip Breadth	.353		58. Hand Circumference	.363	90. Ear Length	.151		
27. Chest Depth	.093		59. Hand Circumference at Thumb	.387	91. Ear Breadth	.129		
28. Waist Depth	.090		60. Head Circumference	.167	92. Ear Protrusion	.087		
29. Buttock Depth	.145		61. Sagittal Arc	.038	93. Subscapular Skinfold	-.038		
30. Hip Breadth Sitting	.328		62. Bifragion-Coronal Arc	.126	94. Juxta-Nipple Skinfold	-.007		
31. Neck Circumference	.229		63. Bifragion-Minimum Frontal Arc	.164	95. Back of Arm Skinfold	-.049		
32. Shoulder Circumference	.224		64. Bifragion-Subnasale Arc	.206	96. Mid/Axillary Line at Umbilicus Skin Fold	-.004		

No. 14. Shoulder Height Sitting

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	23.79	1.06	20.0 - 27.4	21.7	23.8	26.0	0.0564	-0.0721
1. Weight	.422		33. Chest Circumference	.194		65. Bitragion-Menton Arc	.251	
2. Stature	.630		34. Waist Circumference	.186		66. Bitragion-Submandibular Arc	.260	
3. Tragion Height	.627		35. Buttock Circumference	.320		67. Bitragion-Inion Arc	.055	
4. Cervicale Height	.622		36. Buttock Circumference Sitting	.362		68. Head Length	.143	
5. Suprasternale Height	.604		37. Thigh Circumference	.218		69. Tragion to Wall	.009	
6. Nipple (Chest) Height	.588		38. Lower Thigh Circumference	.207		70. Nasal Root to Wall	.120	
7. Waist height	.475		39. Calf Circumference	.230		71. Pronasale to Wall	.188	
8. Peniale Height	.326		40. Ankle Circumference	.294		72. External Canthus to Wall	.138	
9. Gluteal Furrow Height	.392		41. Scye Circumference	.317		73. Head Breadth	.135	
10. Crotch Height	.331		42. Axillary Arm Circumference	.090		74. Bitragion Diameter	.212	
11. Pecten Height	.357		43. Biceps Circumference	.154		75. Maximum Frontal Diameter	.078	
12. Sitting Height	.789		44. Lower Arm Circumference	.241		76. Szygomatic Diameter	.079	
13. Eye Height Sitting	.788		45. Wrist Circumference	.373		77. Bicondylar Diameter	.039	
14. Shoulder Height Sitting			46. Sleeve Inseam	.292		78. Biocular Diameter	.060	
15. Elbow Rest Height	.729		47. Sleeve Length (Spine-Wrist)	.347		79. Interpupillary Distance	.126	
16. Knee Height Sitting	.457		48. Gluteal Arc	.364		80. Interocular Diameter	.137	
17. Popliteal Height Sitting	.336		49. Vertical Trunk Circumference	.648		81. Nasal Root Breadth	.072	
18. Buttock-Popliteal Length	.308		50. Interscye	.020		82. Nose Breadth	.066	
19. Buttock-Knee Length	.400		51. Interscye Maximum	.215		83. Lip Length	.113	
20. Shoulder-Elbow Length	.478		52. Foot Length	.354		84. Menton-Subnasale Length	.130	
21. Forearm-Hand Length	.400		53. Foot Breadth	.250		85. Menton-Vertex Height	.087	
22. Functional Reach	.284		54. Hand Length	.404		86. Head Height (Tragion to Vertex)	.136	
23. Bideitoid Diameter	.230		55. Hand Breadth	.356		87. Lip-to-Lip Distance	.055	
24. Chest Breadth	.197		56. Hand Breadth at Thumb	.386		88. Nose Length	.140	
25. Waist Breadth	.249		57. Thickness at Metacarpal III	.191		89. Nose Protrusion	.106	
26. Hip Breadth	.349		58. Hand Circumference	.378		90. Ear Length	.156	
27. Chest Depth	.152		59. Hand Circumference at Thumb	.354		91. Ear Breadth	.120	
28. Waist Depth	.160		60. Head Circumference	.141		92. Ear Protrusion	.108	
29. Buttock Depth	.212		61. Sagittal Arc	.052		93. Subscapular Skinfold	.065	
30. Hip Breadth-Sitting	.380		62. Bitragion-Coronal Arc	.078		94. Juxta-Nipple Skinfold	.087	
31. Neck Circumference	.242		63. Bitragion-Minimum Frontal Arc	.188		95. Back of Arm Skinfold	.018	
32. Shoulder Circumference	.168		64. Bitragion-Subnasale Arc	.250		96. Mid/Axillary Line at Umbilicus Skin Fold	.023	

## No. 15. Elbow Rest Height

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>38th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	9.25	.99	6.0 - 13.0	7.3	9.3	11.4	0.1028	0.2044

1. Weight .205  
 2. Stature .206  
 3. Tragion Height .205  
 4. Cervicale Height .184  
 5. Suprasternale Height .179  
 6. Nipple (Chest) Height .166  
 7. Waist height .045  
 8. Penale Height -.081  
 9. Gluteal Furrow Height .071  
 10. Grotch Height .082  
 11. Patella Height -.063  
 12. Sitting Height .562  
 13. Eye Height Sitting .544  
 14. Shoulder Height Sitting .729  
 15. Elbow Rest Height -.052  
 16. Knee Height Sitting .037  
 17. Popliteal Height Sitting -.066  
 18. Buttock-Popliteal Length .047  
 19. Buttock-Knee Length -.154  
 20. Shoulder-Elbow Length .154  
 21. Forearm-Hand Length -.027  
 22. Functional Reach .083  
 23. Bideltoid Diameter .012  
 24. Chest Breadth .058  
 25. Waist Breadth .075  
 26. Hip Breadth .162  
 27. Chest Depth .044  
 28. Waist Depth .084  
 29. Buttock Depth .116  
 30. Hip Breadth-Sitting .174  
 31. Neck Circumference .087  
 32. Shoulder Circumference .069
33. Chest Circumference .082  
 34. Waist Circumference .072  
 35. Buttock Circumference .188  
 36. Buttock Circumference Sitting .214  
 37. Thigh Circumference .151  
 38. Lower Thigh Circumference .119  
 39. Calf Circumference .141  
 40. Ankle Circumference .156  
 41. Scye Circumference .105  
 42. Axillary Arm Circumference .101  
 43. Biceps Circumference .099  
 44. Lower Arm Circumference .120  
 45. Wrist Circumference .158  
 46. Sleeve Inseam -.204  
 47. Sleeve Length (Spine-Wrist) -.087  
 48. Gluteal Arc .240  
 49. Vertical Trunk Circumference .473  
 50. Interscye .127  
 51. Interscye Maximum .118  
 52. Foot Length .073  
 53. Foot Breadth .031  
 54. Hand Length .013  
 55. Hand Breadth .113  
 56. Hand Breadth at Thumb .139  
 57. Thickness at Metacarpal III .069  
 58. Hand Circumference .103  
 59. Hand Circumference at Thumb .128  
 60. Head Circumference .083  
 61. Sagittal Arc .073  
 62. Bitragion-Coronal Arc .073  
 63. Bitragion-Minimum Frontal Arc .048  
 64. Bitragion-Subnasale Arc .077
65. Bitragion-Menton Arc .066  
 66. Bitragion-Submandibular Arc .094  
 67. Bitragion-Inion Arc .150  
 68. Head Length .047  
 69. Tragion to Wall .062  
 70. Nasal Root to Wall .073  
 71. Pronasale to Wall .054  
 72. External Canthus to Wall .069  
 73. Head Breadth .063  
 74. Bitragion Diameter .054  
 75. Maximum Frontal Diameter .103  
 76. Bizygomatic Diameter .054  
 77. Bigonial Diameter .162  
 78. Biocular Diameter -.012  
 79. Interpupillary Distance .002  
 80. Interocular Diameter .019  
 81. Nasal Root Breadth .005  
 82. Nose Breadth .015  
 83. Lip Length .022  
 84. Menton-Subnasale Length .022  
 85. Menton-Vertex Height .036  
 86. Head Height (Tragion to Vertex) .055  
 87. Lip-to-Lip Distance .038  
 88. Nose Length .003  
 89. Nose Protrusion .012  
 90. Ear Length .049  
 91. Ear Breadth .003  
 92. Ear Protrusion .015  
 93. Subscapular Skinfold .084  
 94. Juxta-Nipple Skinfold .077  
 95. Back of Arm Skinfold .014  
 96. Mid/Axillary Line at Umbilicus Skin Fold .091

No.	16. Knee Height Sitting	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		21.84	.98	19.0 - 25.1	19.9	21.8	23.9	0.1180	-0.2383
1.	Weight	.519		33. Chest Circumference	.299				
2.	Stature	.813		34. Waist Circumference	.282				
3.	Tragion Height	.809		35. Buttock Circumference	.358				
4.	Cervicale Height	.826		36. Buttock Circumference Sitting	.366				
5.	Suprasternale Height	.823		37. Thigh Circumference	.266				
6.	Nipple (Chest) Height	.811		38. Lower Thigh Circumference	.295				
7.	Waist height	.824		39. Calf Circumference	.312				
8.	Penile Height	.787		40. Ankle Circumference	.395				
9.	Gluteal Furr <sup>ow</sup> n Height	.846		41. Scye Circumference	.404				
10.	Grotch Height	.781		42. Axillary Arm Circumference	.131				
11.	Patella Height	.822		43. Biceps Circumference	.232				
12.	Sitting Height	.453		44. Lower Arm Circumference	.334				
13.	Eye Height Sitting	.467		45. Wrist Circumference	.428				
14.	Shoulder Height Sitting	.457		46. Sleeve Inseam	.696				
15.	Elbow Rest Height	-.052		47. Sleeve Length (Spine-Wrist)	.669				
16.	Knee Height Sitting			48. Gluteal Arc	.254				
17.	Popliteal Height Sitting	.777		49. Vertical Trunk Circumference	.437				
18.	Buttock-Popliteal Length	.668		50. Interscye	.210				
19.	Buttock-Knee Length	.784		51. Interscye Maximum	.226				
20.	Shoulder-Elbow Length	.745		52. Foot Length	.598				
21.	Forearm-Hand Length	.740		53. Foot Breadth	.397				
22.	Functional Reach	.603		54. Hand Length	.656				
23.	Bideltoid Diameter	.384		55. Hand Breadth	.451				
24.	Chest Breadth	.312		56. Hand Breadth at Thumb	.478				
25.	Waist Breadth	.378		57. Thickness at Metacarpal III	.197				
26.	Hip Breadth	.401		58. Hand Circumference	.476				
27.	Chest Depth	.256		59. Hand Circumference at Thumb	.452				
28.	Waist Depth	.208		60. Head Circumference	.200				
29.	Buttock Depth	.248		61. Sagittal Arc	-.045				
30.	Hip Breadth-Sitting	.418		62. Bitragion-Coronal Arc	.146				
31.	Neck Circumference	.296		63. Bitragion-Minimum Frontal Arc	.253				
32.	Shoulder Circumference	.270		64. Bitragion-Subnasale Arc	.297				
				65. Bitragion-Menton Arc	.329				
				66. Bitragion-Submandibular Arc	.297				
				67. Bitragion-Ionion Arc	-.054				
				68. Head Length	.205				
				69. Tragion to Wall	.007				
				70. Nasal Root to Wall	.179				
				71. Pronasale to Wall	.305				
				72. External Canthus to Wall	.196				
				73. Head Breadth	.133				
				74. Bitragion Diameter	.217				
				75. Maximum Frontal Diameter	.065				
				76. Bzygomatric Diameter	.084				
				77. Bigonial Diameter	-.065				
				78. Biocular Diameter	.142				
				79. Interpupillary Distance	.190				
				80. Interocular Diameter	.161				
				81. Nasal Root Breadth	.147				
				82. Nose Breadth	.122				
				83. Lip Length	.172				
				84. Menton-Subnasale Length	.215				
				85. Menton-Vertex Height	.126				
				86. Head Height (Tragion to Vertex)	.176				
				87. Lip-to-Lip Distance	.184				
				88. Nose Length	.196				
				89. Nose Protrusion	.206				
				90. Ear Length	.170				
				91. Ear Breadth	.192				
				92. Ear Protrusion	.143				
				93. Subscapular Skinfold	.011				
				94. Juxta-Nipple Skinfold	.056				
				95. Back of Arm Skinfold	.032				
				96. Mid/Axillary Line at Umbilicus Skin Fold	.010				

No.	17. Popliteal Height Sitting	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		17.31	.86	14.6 - 20.0	15.6	17.3	19.1	0.0746	-0.2568
1.	Weight	.286		31.	Chest Circumference	.080			
2.	Stature	.774		34.	Waist Circumference	.050			
3.	Tragion Height	.769		35.	Buttock Circumference	.104			
4.	Cervicale Height	.778		36.	Buttock Circumference Sitting	.090			
5.	Suprasternale Height	.764		37.	Thigh Circumference	.015			
6.	Nipple (Chest) Height	.749		38.	Lower Thigh Circumference	.002			
7.	Waist height	.813		39.	Calf Circumference	.096			
8.	Penale Height	.807		40.	Ankle Circumference	.192			
9.	Gluteal Furrow Height	.808		41.	Scye Circumference	.152			
10.	Crotch Height	.810		42.	Axillary Arm Circumference	.001			
11.	Patella Height	.735		43.	Biceps Circumference	.007			
12.	Sitting Height	.443		44.	Lower Arm Circumference	.145			
13.	Eye Height Sitting	.402		45.	Wrist Circumference	.256			
14.	Shoulder Height Sitting	.336		46.	Sleeve Inseam	.684			
15.	Elbow Rest Height	-.037		47.	Sleeve Length (Spine-Wrist)	.639			
16.	Knee Height Sitting	.777		48.	Gluetal Arc	.181			
17.	Popliteal Height Sitting			49.	Vertical Trunk Circumference	.307			
18.	Buttock-Popliteal Length	.563		50.	Interseye	.073			
19.	Buttock-Knee Length	.620		51.	Intersye Maximum	.141			
20.	Shoulder-Elbow Length	.588		52.	Foot Length	.595			
21.	Forearm-Hand Length	.740		53.	Foot Breadth	.117			
22.	Functional Reach	.631		54.	Hand Length	.546			
23.	Bideltoid Diameter	.144		55.	Hand Breadth	.283			
24.	Chest Breadth	.079		56.	Hand Breadth at Thumb	.334			
25.	Waist Breadth	.115		57.	Thickness at Metacarpal III	.212			
26.	Hip Breadth	.182		58.	Hand Circumference	.254			
27.	Chest Depth	.035		59.	Hand Circumference at Thumb	.292			
28.	Waist Depth	.008		60.	Head Circumference	.139			
29.	Buttock Depth	-.026		61.	Sagittal Arc	.154			
30.	Hip Breadth-Sitting	.128		62.	Bitragion-Coronal Arc	.172			
31.	Neck Circumference	.086		63.	Bitragion-Minimum Frontal Arc	.057			
32.	Shoulder Circumference	.191		64.	Bitragion-Subnasale Arc	.106			
				65.	Bitragion-Menton Arc	.177			
				66.	Bitragion-Submandibular Arc	.116			
				67.	Bitragion-Inion Arc	.180			
				68.	Head Length	.135			
				69.	Tragion to Wall	.129			
				70.	Nasal Root to Wall	.158			
				71.	Pronasale to Wall	.220			
				72.	External Canthus to Wall	.145			
				73.	Head Breadth	.037			
				74.	Bitragion Diameter	.098			
				75.	Maximum Frontal Diameter	.066			
				76.	Bizygomatic Diameter	.070			
				77.	Bigonial Diameter	.098			
				78.	Biocular Diameter	.082			
				79.	Interpupillary Distance	.050			
				80.	Interocular Diameter	.010			
				81.	Nasal Root Breadth	.019			
				82.	Nose Breadth	.023			
				83.	Lip Length	-.047			
				84.	Menton-Subnasale Length	.144			
				85.	Menton-Vertex Height	.151			
				86.	Head Height [Tragion to Vertex]	.098			
				87.	Lip-to-Lip Distance	.106			
				88.	Nose Length	.095			
				89.	Nose Protrusion	.064			
				90.	Ear Length	.107			
				91.	Ear Breadth	.110			
				92.	Ear Protrusion	.060			
				93.	Subscapular Skinfold	-.135			
				94.	Juxta-Nipple Skinfold	-.106			
				95.	Back of Arm Skinfold	-.083			
				96.	Mid/Axillary Line at Umbilious Skin Fold	-.029			









No. 22. Functional Reach

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	31.51	1.42	27.4 - 36.2	28.9	31.4	34.7	.05 - .7	-0.0393
1. Weight	.420		33. Chest Circumference	.257	65. Bitragion-Menton Arc	.250		
2. Stature	.672		34. Waist Circumference	.198	66. Bitragion-Submandibular Arc	.250		
3. Tragion Height	.676		35. Buttock Circumference	.284	67. Bitragion-Inion Arc	.126		
4. Cervical Height	.661		36. Buttock Circumference Sitting	.279	68. Head Length	.146		
5. Suprasternale Height	.679		37. Thigh Circumference	.164	69. Tragion to Wall	.138		
6. Nipple (Chest) Height	.639		38. Lower Thigh Circumference	.166	70. Nasal Root to Wall	.186		
7. Waist Height	.674		39. Calf Circumference	.182	71. Pronasale to Wall	.236		
8. Penale Height	.676		40. Ankle Circumference	.238	72. External Canthus to Wall	.143		
9. Gluteal Furrow Height	.671		41. Scye Circumference	.287	73. Head Breadth	.068		
10. Crotch Height	.639		42. Axillary Arm Circumference	.203	74. Bitragion Diameter	.128		
11. Patella Height	.617		43. Biceps Circumference	.151	75. Maximum Frontal Diameter	.136		
12. Sitting Height	.376		44. Lower Arm Circumference	.272	76. Bizygomatic Diameter	.169		
13. Eye Height Sitting	.357		45. Wrist Circumference	.338	77. Bigonial Diameter	.151		
14. Shoulder Height Sitting	.284		46. Sleeve Inseam	.718	78. Bicocular Diameter	.153		
15. Elbow Rest Height	-.083		47. Sleeve Length (Spine-Wrist)	.707	79. Interpupillary Distance	.109		
16. Knee Height Sitting	.603		48. Gluteal Arc	.163	80. Interocular Diameter	.010		
17. Popliteal Height Sitting	.631		49. Vertical Trunk Circumference	.403	81. Nasal Root Breadth	.082		
18. Buttock-Popliteal Length	.519		50. Interscye	.219	82. Nose Breadth	.074		
19. Buttock-Knee Length	.586		51. Interscye Maximum	.279	83. Lip Length	.038		
20. Shoulder-Elbow Length	.559		52. Foot Length	.554	84. Menton-Subnasale Length	.099		
21. Forearm-Hand Length	.731		53. Foot Breadth	.135	85. Mentor-Vertex Height	.128		
22. Functional Reach	.261		54. Hand Length	.496	86. Head Height (Tragion to Vertex)	.014		
23. Bideltoid Diameter	.261		55. Hand Breadth	.290	87. Lip-to-Lip Distance	.072		
24. Chest Breadth	.196		56. Hand Breadth at Thumb	.338	88. Nose Length	.147		
25. Waist Breadth	.260		57. Thickness at Metacarpal III	.227	89. Nose Protrusion	.155		
26. Hip Breadth	.344		58. Hand Circumference	.306	90. Ear Length	.147		
27. Chest Depth	.214		59. Hand Circumference at Thumb	.394	91. Ear Breadth	.160		
28. Waist Depth	.144		60. Head Circumference	.166	92. Ear Protrusion	.043		
29. Buttock Depth	.140		61. Sagittal Arc	.117	93. Subscapular Skinfold	.009		
30. Hip Breadth-Sitting	.220		62. Bitragion-Coronal Arc	.135	94. Juxta-Nipple Skinfold	-.004		
31. Neck Circumference	.188		63. Bitragion-Minimum Frontal Arc	.056	95. Back of Arm Skinfold	.338		
32. Shoulder Circumference	.325		64. Bitragion-Subnasale Arc	.128	96. Mid/Axillary Line at Umbilicus Skin Fold	.124		

No. 23. Bideltoid Diameter

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	18.78	.91	14.8 - 21.7	16.9	18.8	20.6	-0.0402	0.1990
1. Weight	.712		33. Chest Circumference	.683		65. Bitragion-Menton Arc .443		
2. Stature	.327		34. Waist Circumference	.582		66. Bitragion-Submandibular Arc .427		
3. Tragion Height	.324		35. Buttock Circumference	.617		67. Bitragion-Union Arc .044		
4. Carpicale Height	.330		36. Buttock Circumference Sitting	.603		68. Head Length .254		
5. Suprasternale Height	.348		37. Thigh Circumference	.567		69. Tragion to Wall .020		
6. Nipple (Chest) Height	.303		38. Lower Thigh Circumference	.511		70. Nasal Root to Wall .220		
7. Waist height	.271		39. Calf Circumference	.541		71. Pronasale to Wall .262		
8. Penale Height	.243		40. Ankle Circumference	.458		72. External Canthus to Wall .207		
9. Gluteal Furrow Height	.267		41. Scye Circumference	.598		73. Head Breadth .253		
10. Crotch Height	.185		42. Axillary Arm Circumference	.578		74. Bitragion Diameter .353		
11. Patella Height	.312		43. Biceps Circumference	.629		75. Maximum Frontal Diameter .197		
12. Sitting Height	.257		44. Lower Arm Circumference	.556		76. Bizegomatic Diameter .228		
13. Eye Height Sitting	.287		45. Wrist Circumference	.461		77. Bigonial Diameter .160		
14. Shoulder Height Sitting	.230		46. Sleeve Inseam	.201		78. Biocular Diameter .201		
15. Elbow Rest Height	.012		47. Sleeve Length (Spine-Wrist)	.476		79. Interpupillary Distance .184		
16. Knee Height Sitting	.384		48. Gluteal Arc	.170		80. Interocular Diameter .147		
17. Popliteal Height Sitting	.144		49. Vertical Trunk Circumference	.524		81. Nasal Root Breadth .185		
18. Buttock-Popliteal Length	.317		50. Interscye	.641		82. Nose Breadth .218		
19. Buttock-Knee Length	.444		51. Interscye Maximum	.579		83. Lip Length .245		
20. Shoulder-Elbow Length	.313		52. Foot Length	.220		84. Menton-Subnasale Length .121		
21. Forearm-Hand Length	.280		53. Foot Breadth	.310		85. Menton-Vertex Height .108		
22. Functional Reach	.261		54. Hand Length	.253		86. Head Height (Tragion to Vertex) .149		
23. Bideltoid Diameter			55. Hand Breadth	.338		87. Lip-to-Lip Distance .077		
24. Chest Breadth	.710		56. Hand Breadth at Thumb	.353		88. Nose Length .133		
25. Waist Breadth	.611		57. Thickness at Metacarpal III	.165		89. Nose Protrusion .147		
26. Hip Breadth	.510		58. Hand Circumference	.378		90. Ear Length .168		
27. Chest Depth	.492		59. Hand Circumference at Thumb	.419		91. Ear Breadth .133		
28. Waist Depth	.458		60. Head Circumference	.302		92. Ear Protrusion .102		
29. Buttock Depth	.532		61. Sagittal Arc	-.058		93. Subscapular Skinfold .380		
30. Hip Breadth-Sitting	.583		62. Bitragion-Coronal Arc	.144		94. Juxta-Nipple Skinfold .336		
31. Neck Circumference	.568		63. Bitragion-Minimum Frontal Arc	.329		95. Back of Arm Skinfold .207		
32. Shoulder Circumference	.737		64. Bitragion-Subnasale Arc	.405		96. Mid/Axillary Line at Umbilicus Skin fold .330		

No.	Measurement	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
24.	Chest Breadth	12.88	.81	10.3 - 16.2	11.3	12.8	14.7	0.2862	0.2657
1.	Weight	.682		33. Chest Circumference	.773				.367
2.	Stature	.223		34. Waist Circumference	.626				.386
3.	Tragion Height	.216		35. Buttock Circumference	.606				.053
4.	Cervicale Height	.226		36. Buttock Circumference Sitting	.597				.211
5.	Suprasternale Height	.256		37. Thigh Circumference	.568				.027
6.	Nipple (Chest) Height	.211		38. Lower Thigh Circumference	.538				.203
7.	Waist height	.160		39. Calf Circumference	.504				.225
8.	Penale Height	.134		40. Ankle Circumference	.415				.187
9.	Gluteal Furrow Height	.187		41. Scye Circumference	.580				.216
10.	Crotch Height	.130		42. Axillary Arm Circumference	.502				.309
11.	Patella Height	.240		43. Biceps Circumference	.597				.151
12.	Sitting Height	.142		44. Lower Arm Circumference	.515				.214
13.	Eye Height Sitting	.170		45. Wrist Circumference	.400				.185
14.	Shoulder Height Sitting	.197		46. Sleeve Inseam	.089				.153
15.	Elbow Rest Height	.058		47. Sleeve Length (Spine-Wrist)	.341				.154
16.	Knee Height Sitting	.312		48. Gluteal Arc	.131				.111
17.	Popliteal Height Sitting	.079		49. Vertical Trunk Circumference	.478				.104
18.	Buttock-Popliteal Length	.257		50. Interscye	.512				.199
19.	Buttock-Knee Length	.383		51. Interscye Maximum	.537				.194
20.	Shoulder-Elbow Length	.213		52. Foot Length	.173				.101
21.	Forearm-Hand Length	.198		53. Foot Breadth	.234				.081
22.	Functional Reach	.196		54. Hand Length	.177				.117
23.	Bideltoid Diameter	.710		55. Hand Breadth	.259				.012
24.	Chest Breadth			56. Hand Breadth at Thumb	.254				.084
25.	Waist Breadth			57. Thickness at Metacarpal III	.138				.124
26.	Hip Breadth			58. Hand Circumference	.315				.139
27.	Chest Depth			59. Hand Circumference at Thumb	.342				.101
28.	Waist Depth			60. Head Circumference	.269				.047
29.	Buttock Depth			61. Sacral Arc	-.013				.400
30.	Hip Breadth-Sitting			62. Bitragion-Coronal Arc	.151				.385
31.	Neck Circumference			63. Bitragion-Maximum Frontal Arc	.275				.241
32.	Shoulder Circumference			64. Bitragion-Subnasale Arc	.348				.375



No.	26. Hip Breadth	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		13.78	.70	11.3 - 16.2	12.3	13.8	15.2	-0.0618	-0.1199
1.	Weight	.757		33. Chest Circumference	.583				
2.	Stature	.411		34. Waist Circumference	.648				
3.	Tragion Height	.406		35. Buttock Circumference	.833				
4.	Cervicale Height:	.411		36. Buttock Circumference Sitting	.779				
5.	Suprasternale Height	.436		37. Thigh Circumference	.720				
6.	Nipple (Chest) Height	.376		38. Lower Thigh Circumference	.617				
7.	Waist height	.315		39. Calf Circumference	.576				
8.	Penale Height	.270		40. Ankle Circumference	.522				
9.	Gluteal Furrow Height	.303		41. Scye Circumference	.507				
10.	Crotch Height	.274		42. Axillary Arm Circumference	.495				
11.	Patella Height	.322		43. Biceps Circumference	.529				
12.	Sitting Height	.332		44. Lower Arm Circumference	.491				
13.	Eye Height Sitting	.353		45. Wrist Circumference	.455				
14.	Shoulder Height Sitting	.349		46. Sleeve Inseam	.229				
15.	Elbow Rest Height	.162		47. Sleeve Length (Spine-Wrist)	.415				
16.	Knee Height Sitting	.401		48. Gluteal Arc	.235				
17.	Popliteal Height Sitting	.182		49. Vertical Trunk Circumference	.609				
18.	Buttock-Popliteal Length	.419		50. Interscye	.250				
19.	Buttock Knee Length	.529		51. Interscye Maximum	.388				
20.	Shoulder-Elbow Length	.305		52. Foot Length	.366				
21.	Forearm-Hand Length	.340		53. Foot Breadth	.245				
22.	Functional Reach	.344		54. Hand Length	.268				
23.	Bideltoid Diameter	.510		55. Hand Breadth	.297				
24.	Chest Breadth	.541		56. Hand Breadth at Thumb	.318				
25.	Waist Breadth	.688		57. Thickness at Metacarpal III	.182				
26.	Hip Breadth			58. Hand Circumference	.319				
27.	Chest Depth	.496		59. Hand Circumference at Thumb	.379				
28.	Waist Depth	.547		60. Head Circumference	.261				
29.	Buttock Depth	.597		61. Sagittal Arc	.042				
30.	Hip Breadth Sitting	.770		62. Bitragion-Coronal Arc	.183				
31.	Neck Circumference	.430		63. Bitragion-Minimum Frontal Arc	.240				
32.	Shoulder Circumference	.536		64. Bitragion-Subnasale Arc	.298				
				65. Bitragion-Menton Arc	.356				
				66. Bitragion-Submandibular Arc	.360				
				67. Bitragion-Union Arc	.125				
				68. Head Length	.162				
				69. Tragion to Wall	.101				
				70. Nasal Root to Wall	.178				
				71. Pronasale to Wall	.224				
				72. External Canthus to Wall	.173				
				73. Head Breadth	.219				
				74. Bitragion Diameter	.299				
				75. Maximum Frontal Diameter	.179				
				76. Bzygomatic Diameter	.257				
				77. Bigonial Diameter	.235				
				78. Biocular Diameter	.158				
				79. Interpupillary Distance	.132				
				80. Interocular Diameter	.072				
				81. Nasal Root Breadth	.112				
				82. Nose Breadth	.168				
				83. Lip Length	.143				
				84. Menton-Subnasale Length	.090				
				85. Menton-Vertex Height	.086				
				86. Head Height (Tragion to Vertex)	.121				
				87. Lip-to-Lip Distance	.004				
				88. Nose Length	.101				
				89. Nose Protrusion	.137				
				90. Ear Length	.211				
				91. Ear Breadth	.145				
				92. Ear Protrusion	.076				
				93. Subscapular Skinfold	.378				
				94. Juxta-Nipple Skinfold	.401				
				95. Back of Arm Skinfold	.357				
				96. Mid/Axillary Line at Umbilicus Skin Fold	.454				

**No. 27. Chest Depth**

	<u>Mean</u>	<u>S.D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	9.39	.71	7.4 - 11.9	7.9	9.4	10.9	0.1543	-0.0029

33. Chest Circumference .783 .65. Bitragion-Menton Arc .324  
 34. Waist Circumference .685 .66. Bitragion-Submandibular Arc .375  
 35. Buttock Circumference .621 .67. Bitragion-Inion Arc .122  
 36. Buttock Circumference Sitting .627 .68. Head Length .178  
 37. Thigh Circumference .589 .69. Tragion to Wall .150  
 38. Lower Thigh Circumference .499 .70. Nasal Root to Wall .172  
 39. Calf Circumference .477 .71. Pronasale to Wall .248  
 40. Ankle Circumference .381 .72. External Canthus to Wall .212  
 41. Scye Circumference .552 .73. Head Breadth .175  
 42. Axillary Arm Circumference .588 .74. Bitragion Diameter .294  
 43. Biceps Circumference .598 .75. Maximum Frontal Diameter .148  
 44. Lower Arm Circumference .480 .76. Bizygomatic Diameter .207  
 45. Wrist Circumference .353 .77. Bigonial Diameter .266  
 46. Sleeve Inseam .050 .78. Biocular Diameter .122  
 47. Sleeve Length (Spine-Wrist) .281 .79. Interpupillary Distance .085  
 48. Gluteal Arc .026 .80. Interocular Diameter .065  
 49. Vertical Trunk Circumference .472 .81. Nasal Root Breadth .191  
 50. Interscye .349 .82. Nose Breadth .161  
 51. Interscye Maximum .423 .83. Lip Length .072  
 52. Foot Length .190 .84. Menton-Subnasale Length .040  
 53. Foot Breadth .144 .85. Menton-Vertex Height .034  
 54. Hand Length .150 .86. Head Height (Tragion to Vertex) .071  
 55. Hand Breadth .227 .87. Lip-to-Lip Distance .212  
 56. Hand Breadth at Thumb .224 .88. Nose Length .062  
 57. Thickness at Metacarpal III .218 .89. Nose Protrusion .127  
 58. Hand Circumference .271 .90. Ear Length .036  
 59. Hand Circumference at Thumb .315 .91. Ear Breadth .113  
 60. Head Circumference .271 .92. Ear Protrusion .517  
 61. Sagittal Arc .009 .93. Subscapular Skinfold .518  
 62. Bitragion-Corona: Arc .090 .94. Juxta-Nipple Skinfold .333  
 63. Bitragion-Minimum Frontal Arc .180 .95. Back of Ar.:n Skinfold .442  
 64. Bitragion-Subnasale Arc .283 .96. Mid/Axillary Line at Umbilious Skin Fold

32. Shoulder Circumference .595

**No. 28. Waist Depth**

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	8.55	.76	6.1 - 11.5	7.0	8.6	10.2	0.1571	0.3239

1. Weight .711  
 2. Stature .166  
 3. Tragion Height .163  
 4. Cervicale Height .198  
 5. Suprasternal Height .211  
 6. Nipple (Chest) Height .152  
 7. Waist height .070  
 8. Penale Height .046  
 9. Gluteal Furrow Height .136  
 10. Crotch Height .068  
 11. Patella Height .183  
 12. Sitting Height .091  
 13. Eye Height Sitting .090  
 14. Shoulder Height Sitting .160  
 15. Elbow Rest Height .084  
 16. Knee Height Sitting .208  
 17. Popliteal Height Sitting .008  
 18. Buttock-Popliteal Length .282  
 19. Buttock-Knee Length .383  
 20. Shoulder-Elbow Length .124  
 21. Forearm-Hand Length .117  
 22. Functional Reach .144  
 23. Bideltoid Diameter .458  
 24. Chest Breadth .513  
 25. Waist Breadth .715  
 26. Hip Breadth .547  
 27. Chest Depth .626  
 28. Waist Depth .766  
 29. Buttock Depth .583  
 30. Hip Breadth-Sitting .452  
 31. Neck Circumference .519  
 32. Shoulder Circumference .711  
 33. Chest Circumference .33  
 34. Waist Circumference .865  
 35. Buttock Circumference .682  
 36. Buttock Circumference Sitting .730  
 37. Thigh Circumference .643  
 38. Lower Thigh Circumference .532  
 39. Calf Circumference .449  
 40. Ankle Circumference .348  
 41. Scye Circumference .501  
 42. Axillary Arm Circumference .73  
 43. Biceps Circumference .508  
 44. Lower Arm Circumference .417  
 45. Wrist Circumference .336  
 46. Sleeve Inseam .002  
 47. Sleeve Length (Spine-Wrist) .222  
 48. Gluteal Arc .033  
 49. Vertical Trunk Circumference .506  
 50. Interscye .282  
 51. Interscye Maximum .370  
 52. Foot Length .147  
 53. Foot Breadth .086  
 54. Hand Length .111  
 55. Hand Breadth .171  
 56. Hand Breadth at Thumb .162  
 57. Thickness at Metacarpal III .160  
 58. Hand Circumference .186  
 59. Hand Circumference at Thumb .243  
 60. Head Circumference .230  
 61. Sagittal Arc .035  
 62. Bitragion-Coronal Arc .094  
 63. Bitragion-Minimum Frontal Arc .171  
 64. Bitragion-Subnasale Arc .232  
 65. Bitragion-Menton Arc .637  
 66. Bitragion-Submandibular Arc .685  
 67. Bitragion-Union Arc .682  
 68. Head Length .730  
 69. Tragion to Wall .643  
 70. Nasal Root to Wall .532  
 71. Pronasale to Wall .449  
 72. External Canthus to Wall .348  
 73. Head Breadth .501  
 74. Bitragion Diameter .573  
 75. Maximum Frontal Diameter .508  
 76. Bzygomastic Diameter .417  
 77. Bigonial Diameter .336  
 78. Biocular Diameter .002  
 79. Interpupillary Distance .222  
 80. Interocular Diameter .033  
 81. Nasal Root Breadth .506  
 82. Nose Breadth .282  
 83. Lip Length .370  
 84. Menton-Subnasale Length .147  
 85. Menton-Vertex Height .086  
 86. Head Height (Tragion to Vertex) .111  
 87. Lip-to-Lip Distance .171  
 88. Nose Length .162  
 89. Nose Protrusion .160  
 90. Ear Length .186  
 91. Ear Breadth .243  
 92. Ear Protrusion .230  
 93. Subscapular Skinfold .035  
 94. Juxta-Nipple Skinfold .094  
 95. Back of Arm Skinfold .171  
 96. Mid/Axillary Line at Umbilicus Skin Fold .232

No.	29. Buttock Depth	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		9.50	.74	7.3 - 12.2	8.0	9.5	11.1	0.1328	0.0749
1.	Weight	.751		33. Chest Circumference	.653	65. Bitrachelion-Menton Arc	.312		
2.	Stature	.177		34. Waist Circumference	.777	66. Bitrachelion-Submandibular Arc	.379		
3.	Tragion Height	.169		35. Buttock Circumference	.775	67. Bitrachelion-Inion Arc	.100		
4.	Cervicale Height	.199		36. Buttock Circumference-Sitting	.759	68. Head Length	.157		
5.	Suprasternale Height	.224		37. Thigh Circumference	.748	69. Tragion to Wall	.057		
6.	Nipple (Chest) Height	.171		38. Lower Thigh Circumference	.624	70. Nasal Root to Wall	.147		
7.	Waist height	.085		39. Calf Circumference	.532	71. Pronasale to Wall	.167		
8.	Penale Height	.050		40. Ankle Circumference	.427	72. External Canthus to Wall	.151		
9.	Gluteal Furrow Height	.123		41. Scye Circumference	.565	73. Head Breadth	.189		
10.	Crotch Height	.046		42. Axillary Arm Circumference	.580	74. Bitrachelion Diameter	.316		
11.	Pectilla Height	.185		43. Biceps Circumference	.600	75. Maximum Frontal Diameter	.127		
12.	Sitting Height	.138		44. Lower Arm Circumference	.481	76. Bizegomatic Diameter	.164		
13.	Eye Height Sitting	.145		45. Wrist Circumference	.373	77. Bigonial Diameter	.205		
14.	Shoulder Height Sitting	.212		46. Sleeve Inseam	.013	78. Bicocular Diameter	.091		
15.	Elbow Rest Height	.116		47. Sleeve Length (Spine-Wrist)	.223	79. Interpupillary Distance	.072		
16.	Knee Height Sitting	.248		48. Gluteal Arc	.177	80. Interocular Diameter	.082		
17.	Popliteal Height Sitting	.026		49. Vertical Trunk Circumference	.568	81. Nasal Root Breadth	.087		
18.	Buttock-Popliteal Length	.304		50. Interscye	.317	82. Nose Breadth	.178		
19.	Buttock-Knee Length	.417		51. Interscye Maximum	.385	83. Lip Length	.135		
20.	Shoulder-Elbow Length	.146		52. Foot Length	.148	84. Menton-Subnasale Length	.074		
21.	Forearm-Hand Length	.114		53. Foot Breadth	.188	85. Menton-Vertex Height	.051		
22.	Functional Reach	.140		54. Hand Length	.118	86. Head Height (Tragion to Vertex)	.059		
23.	Bideltoid Diameter	.532		55. Hand Breadth	.210	87. Lip-to-Lip Distance	-.005		
24.	Chest Breadth	.580		56. Hand Breadth at Thumb	.195	88. Nose Length	.047		
25.	Waist Breadth	.724		57. Thickness at Metacarpal III	.167	89. Nose Protrusion	.086		
26.	Hip Breadth	.597		58. Hand Circumference	.245	90. Ear Length	.192		
27.	Chest Depth	.635		59. Hand Circumference at Thumb	.278	91. Ear Breadth	.116		
28.	Waist Depth	.766		60. Head Circumference	.247	92. Ear Protrusion	.074		
29.	Buttock Depth			61. Sagittal Arc	-.014	93. Subscapular Skinfold	.594		
30.	Hip Breadth-Sitting	.674		62. Bitrachelion-Coronal Arc	.102	94. Juxta-Nipple Skinfold	.582		
31.	Neck Circumference	.508		63. Bitrachelion-Minimum Frontal Arc	.229	95. Back of Arm Skinfold	.477		
32.	Shoulder Circumference	.544		64. Bitrachelion-Subnasale Arc	.299	96. MidAxillary Line at Umbilicus Skin Fold	.524		

## No. 30. Hip Breadth Sitting

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	14.49	.85	12.0 - 17.9	12.3	14.4	16.3	0.2044	0.0543
1. Weight	.771		33. Chest Circumference	.611	65. Bitragion-Menton Arc	.362		
2. Stature	.366		34. Waist Circumference	.700	66. Bitragion-Submandibular Arc	.339		
3. Tragion Height	.350		35. Buttock Circumference	.815	67. Bitragion-Inion Arc	.115		
4. Cervicale Height	.385		36. Buttock Circumference Sitting	.815	68. Head Length	.181		
5. Supra sternale Height	.382		37. Thigh Circumference	.729	69. Tragion to Wall	.035		
6. Nipple (Chest) Height	.322		38. Lower Thigh Circumference	.598	70. Nasal Root to Wall	.170		
7. Waist height	.264		39. Calf Circumference	.570	71. Pronasale to Wall	.225		
8. Peniale Height	.211		40. Ankle Circumference	.532	72. External Canthus to Wall	.183		
9. Gluteal Furrow Height	.266		41. Seye Circumference	.550	73. Head Breadth	.228		
10. Crotch Height	.176		42. Axillary Arm Circumference	.500	74. Bitragion Diameter	.345		
11. Patella Height	.292		43. Biceps Circumference	.546	75. Maximum Frontal Diameter	.125		
12. Sitting Height	.323		44. Lower Arm Circumference	.460	76. Bzygomatic Diameter	.148		
13. Eye Height Sitting	.328		45. Wrist Circumference	.436	77. Bigonial Diameter	.174		
14. Shoulder Height Sitting	.380		46. Sleeve Inseam	.153	78. Biocular Diameter	.109		
15. Elbow Rest Height	.174		47. Sleeve Length (Spine-Wrist)	.361	79. Interpupillary Distance	.155		
16. Knee Height Sitting	.418		48. Gluteal Arc	.234	80. Interocular Diameter	.165		
17. Popliteal Height Sitting	.128		49. Vertical Trunk Circumference	.594	81. Nasal Root Breadth	.096		
18. Buttock-Popliteal Length	.386		50. Interscye	.316	82. Nose Breadth	.198		
19. Buttock-Knee Length	.522		51. Interscye Maximum	.378	83. Lip Length	.157		
20. Shoulder-Elbow Length	.342		52. Foot Length	.308	84. Menton-Subnasale Length	.138		
21. Forearm-Hand Length	.284		53. Foot Breadth	.314	85. Menton-Vertex Height	.096		
22. Functional Reach	.220		54. Hand Length	.298	86. Head Height (Tragion to Vertex)	.178		
23. Bidehoid Diameter	.583		55. Hand Breadth	.334	87. Lip-to-Lip Distance	.032		
24. Chest Breadth	.567		56. Hand Breadth at Thumb	.340	88. Nose Length	.113		
25. Waist Breadth	.738		57. Thickness at Metacarpal III	.209	89. Nose Protrusion	.109		
26. Hip Breadth	.770		58. Hand Circumference	.367	90. Ear Length	.195		
27. Chest Depth	.547		59. Hand Circumference at Thumb	.360	91. Ear Breadth	.149		
28. Waist Depth	.583		60. Head Circumference	.266	92. Ear Protrusion	.094		
29. Buttock Depth	.674		61. Sagittal Arc	-.013	93. Subscapular Skinfold	.472		
30. Hip Breadth-Sitting			62. Bitragion-Coronal Arc	.177	94. Juxta Nipple Skinfold	.474		
31. Neck Circumference	.461		63. Bitragion-Minimum Frontal Arc	.316	95. Back of Arm Skinfold	.405		
32. Shoulder Circumference	.529		64. Bitragion-Subnasale Arc	.372	96. Mid/Axillary Line at Umbilicus Skin Fold	.389		

No.	31. Neck Circumference	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
15.14	15.14	.72		13.1 - 17.8	13.7	15.1	16.7	0.1671	0.1133
1. Weight	.630			33. Chest Circumference	.609			.453	
2. Stature	.233			34. Waist Circumference	.529			.470	
3. Tragion Height	.228			35. Buttock Circumference	.530			.067	
4. Cervicale Height	.231			36. Buttock Circumference Sitting	.530			.242	
5. Suprasternale Height	.251			37. Thigh Circumference	.524			.050	
6. Nipple (Chest) Height	.196			38. Lower Thigh Circumference	.537			.229	
7. Waist height	.161			39. Calf Circumference	.477			.274	
8. Penale Height	.144			40. Ankle Circumference	.402			.209	
9. Gluteal Furrow Height	.198			41. Scye Circumference	.580			.292	
10. Crotch Height	.165			42. Axillary Arm Circumference	.510			.370	
11. Patella Height	.227			43. Biceps Circumference	.632			.225	
12. Sitting Height	.202			44. Lower Arm Circumference	.597			.289	
13. Eye Height Sitting	.229			45. Wrist Circumference	.462			.215	
14. Shoulder Height Sitting	.242			46. Sleeve Inseam	.076			.194	
15. Elbow Rest Height	.087			47. Teeve Length (Spine-Wrist)	.312			.37	.155
16. Knee Height Sitting	.296			48. Gluteal Arc	.107				
17. Popliteal Height Sitting	.086			49. Vertical Trunk Circumference	.472				
18. Buttock-Popliteal Length	.210			50. Interscy	.420				
19. Buttock-Knee Length	.340			51. Interscy Maximum	.457				
20. Shoulder-Elbow Length	.225			52. Foot Length	.167				
21. Forearm-Hand Length	.206			53. Foot Breadth	.279				
22. Functional Reach	.188			54. Hand Length	.208				
23. Bideltoid Diameter	.568			55. Hand Breadth	.305				
24. Chest Breadth	.545			56. Hand Breadth at Thumb	.335				
25. Waist Breadth	.536			57. Thickness at Metacarpal III	.207				
26. Hip Breadth	.430			58. Hand Circumference	.375				
27. Chest Depth	.497			59. Hand Circumference at Thumb	.418				
28. Waist Depth	.452			60. Head Circumference	.321				
29. Buttock Depth	.508			61. Sagittal Arc	.026				
30. Hip Breadth-Sitting	.461			62. Bitragion-Coronal Arc	.148				
31. Neck Circumference				63. Bitragion-Minimum Frontal Arc	.324				
32. Shoulder Circumference	.573			64. Bitragion-Subnasale Arc	.417				
				65. Bitragion-Menton Arc					
				66. Bitragion-Submandibular Arc					
				67. Bitragion-Inion Arc					
				68. Head Length					
				69. Tragion to Wall					
				70. Nasal Root to Wall					
				71. Pronasale to Wall					
				72. External Canthus to Wall					
				73. Head Breadth					
				74. Bitragion Diameter					
				75. Maximum Frontal Diameter					
				76. Bzygomatic Diameter					
				77. Bigonial Diameter					
				78. Biocular Diameter					
				79. Interpupillary Distance					
				80. Interocular Diameter					
				81. Nasal Root Breadth					
				82. Nose Breadth					
				83. Lip Length					
				84. Menton-Subnasale Length					
				85. Menton-Vertex Height					
				86. Head Height (Tragion to Vertex)					
				87. Lip-to-Lip Distance					
				88. Nose Length					
				89. Nose Protrusion					
				90. Ear Length					
				91. Ear Breadth					
				92. Ear Protrusion					
				93. Subscapular Skinfold					
				94. Juxta-Nipple Skinfold					
				95. Back of Arm Skinfold					
				96. Mid/Axillary Line at Umbilious Skin Fold					

No. 32. Shoulder Circumference

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
1. Weight	.773							
2. Stature	.291							
3. Tragion Height	.293							
4. Cervicale Height	.292							
5. Suprasternale Height	.328							
6. Nipple (Chest) Height	.260							
7. Waist height	.242							
8. Penile Height	.235							
9. Gluteal Furrow Height	.248							
10. Crotch Height	.196							
11. Patella Height	.226							
12. Sitting Height	.225							
13. Eye Height Sitting	.224							
14. Shoulder Height Sitting	.168							
15. Elbow Rest Height	.069							
16. Knee Height Sitting	.270							
17. Popliteal Height Sitting	.191							
18. Buttock-Popliteal Length	.306							
19. Buttock-Knee Length	.405							
20. Shoulder Elbow Length	.170							
21. Forearm-Hand Length	.292							
22. Functional Reach	.325							
23. Bideitoid Diameter	.737							
24. Chest Breadth	.668							
25. Waist Breadth	.603							
26. Hip Breadth	.536							
27. Chest Depth	.595							
28. Waist Depth	.519							
29. Buttock Depth	.544							
30. Hip Breadth-Sitting	.529							
31. Neck Circumference	.573							
32. Shoulder Circumference								
33. Chest Circumference								
34. Waist Circumference								
35. Buttock Circumference								
36. Buttock Circumference Sitting								
37. Thigh Circumference								
38. Lower Thigh Circumference								
39. Calf Circumference								
40. Ankle Circumference								
41. Scye Circumference								
42. Axillary Arm Circumference								
43. Biceps Circumference								
44. Lower Arm Circumference								
45. Wrist Circumference								
46. Sleeve Inseam								
47. Sleeve Length (Spine-Wrist)								
48. Gluteal Arc								
49. Vertical Trunk Circumference								
50. Interscye								
51. Interscye Maximum								
52. Foot Length								
53. Foot Breadth								
54. Hand Length								
55. Hand Breadth								
56. Hand Breadth at Thumb								
57. Thickness at Metacarpal III								
58. Hand Circumference								
59. Hand Circumference at Thumb								
60. Head Circumference								
61. Sagittal Arc								
62. Bitragion-Coronal Arc								
63. Bitragion-Minimum Frontal Arc								
64. Bitragion-Subnasale Arc								
65. Bitragion-Menton Arc								
66. Bitragion-Submandibular Arc								
67. Bitragion-Inion Arc								
68. Head Length								
69. Tragion to Wall								
70. Nasal Root to Wall								
71. Pronasale to Wall								
72. External Canthus to Wall								
73. Head Breadth								
74. Bitragion Diameter								
75. Maximum Frontal Diameter								
76. Bzygomastic Diameter								
77. Bigonial Diameter								
78. Bicocular Diameter								
79. Interpupillary Distance								
80. Intercocular Diameter								
81. Nasar Root Breadth								
82. Nose Breadth								
83. Lip Length								
84. Menton-Subnasale Length								
85. Menton-Vertex Height								
86. Head Height (Tragion to Vertex)								
87. Lip-to-Lip Distance								
88. Nose Length								
89. Nose Protrusion								
90. Ear Length								
91. Ear Breadth								
92. Ear Protrusion								
93. Subscapular Skinfold								
94. Juxta-Nipple Skinfold								
95. Back of Arm Skinfold								
96. Mid/Axillary Line at Umbilicus Skin Fold								

No.	33. Chest Circumference	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		38.92	2.27	30.9 - 47.7	34.4	38.9	43.9	0.1393	0.3920
1.	Weight	.807		33. Chest Circumference					
2.	Stature	.224		34. Waist Circumference					
3.	Tragion Height	.224		35. Buttock Circumference					
4.	Cervicale Height	.233		36. Buttock Circumference Sitting					
5.	Suprasternae Height	.279		37. Thigh Circumference					
6.	Nipple (Chest) Height	.223		38. Lower Thigh Circumference					
7.	Waist height	.176		39. Calf Circumference					
8.	Penate Height	.167		40. Ankle Circumference					
9.	Glutal Furrow Height	.211		41. Scye Circumference					
10.	Crotch Height	.155		42. Axillary Arm Circumference					
11.	Patella Height	.236		43. Biceps Circumference					
12.	Sitting Height	.115		44. Lower Arm Circumference					
13.	Eye Height Sitting	.144		45. Wrist Circumference					
14.	Shoulder Height Sitting	.194		46. Sleeve Inseam					
15.	Elbow Rest Height	.082		47. Sleeve Length (Spine-Wrist)					
16.	Knee Height Sitting	.299		48. Gluteal Arc					
17.	Popliteal Height Sitting	.080		49. Vertical Trunk Circumference					
18.	Buttock-Popliteal Length	.309		50. Interscye					
19.	Buttock-Knee Length	.435		51. Interscye Maximum					
20.	Shoulder-Elbow Length	.196		52. Foot Length					
21.	Forearm-Hand Length	.230		53. Foot Breadth					
22.	Functional Reach	.257		54. Hand Length					
23.	Bideltoid Diameter	.688		55. Hand Breadth					
24.	Chest Breadth	.773		56. Hand Breadth at Thumb					
25.	Waist Breadth	.726		57. Thickness at Metacarpal III					
26.	Hip Breadth	.583		58. Hand Circumference					
27.	Chest Depth	.783		59. Hand Circumference at Thumb					
28.	Waist Depth	.637		60. Head Circumference					
29.	Buttock Depth	.653		61. Sagittal Arc					
30.	Hip Breadth-Sitting	.611		62. Bitragion-Coronal Arc					
31.	Neck Circumference	.609		63. Bitragion-Minimum Frontal Arc					
32.	Shoulder Circumference	.790		64. Bitragion-Subnasale Arc					
				65. Bitragion-Menton Arc					
				66. Bitragion-Submandibular Arc					
				67. Bitragion-Inion Arc					
				68. Head Length					
				69. Tragion to Wall					
				70. Nasal Root to Wall					
				71. Pronasale to Wall					
				72. External Canthus to Wall					
				73. Head Breadth					
				74. Bitragion Diameter					
				75. Maximum Frontal Diameter					
				76. Bzygomatric Diameter					
				77. Bigonial Diameter					
				78. Biocular Diameter					
				79. Interpupillary Distance					
				80. Interocular Diameter					
				81. Nasal Root Breadth					
				82. Nose Breadth					
				83. Lip Length					
				84. Menton-Subnasale Length					
				85. Menton-Vertex Height					
				86. Head Height (Tragion to Vertex)					
				87. Lip-to-Lip Distance					
				88. Nose Length					
				89. Nose Protrusion					
				90. Ear Length					
				91. Ear Breadth					
				92. Ear Protrusion					
				93. Subscapular Skinfold					
				94. Juxta-Nipple Skinfold					
				95. Back of Arm Skinfold					
				96. Mid/Axillary Line at Umbilicus Skin Fold					

## No. 34. Waist Circumference

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
33.61	2.58	23.4 - 43.8	28.4	33.7	39.2	0.1015	0.3931	
1. Weight	.819		33. Chest Circumference	.761	65. Bitragion-Menton Arc	.315		
2. Stature	.216		34. Waist Circumference	.796	66. Bitragion-Submandibular Arc	.391		
3. Tragion Height	.214		35. Buttock Circumference	.820	67. Bitragion-Union Arc	.135		
4. Cervicale Height	.252		36. Buttock Circumference Sitting	.758	68. Head Length	.174		
5. Suprasternal Height	.266		37. Thigh Circumference	.758	69. Tragion to Wall	.137		
6. Nipple (Chest) Height	.196		38. Lower Thigh Circumference	.610	70. Nasal Root to Wall	.176		
7. Waist height	.139		39. Calf Circumference	.527	71. Pronasale to Wall	.211		
8. Penale Height	.123		40. Ankle Circumference	.418	72. External Canthus to Wall	.192		
9. Gluteal Furrow Height	.199		41. Scye Circumference	.588	73. Head Breadth	.235		
10. Crotch Height	.115		42. Axillary Arm Circumference	.677	74. Bitragion Diameter	.315		
11. Patella Height	.235		43. Biceps Circumference	.613	75. Maximum Frontal Diameter	.165		
12. Sitting Height	.109		44. Lower Arm Circumference	.502	76. Bizygomatic Diameter	.267		
13. Eye Height Sitting	.116		45. Wrist Circumference	.380	77. Biconial Diameter	.302		
14. Shoulder Height Sitting	.186		46. Sleeve Inseam	.048	78. Biocular Diameter	.093		
15. Elbow Rest Height	.072		47. Sleeve Length (Spine-Wrist)	.323	79. Interpupillary Distance	.091		
16. Knee Height Sitting	.282		48. Guteal Arc	.038	80. Interocular Diameter	.057		
17. Popliteal Height Sitting	.050		49. Vertical Trunk Circumference	.572	81. Nasal Root Breadth	.079		
18. Buttock-Popliteal Length	.343		50. Interscy	.376	82. Nose Breadth	.166		
19. Buttock-Knee Length	.465		51. Interscy Maximum	.471	83. Lip Length	.122		
20. Shoulder-Elbow Length	.181		52. Foot Length	.203	84. Menton-Subnasale Length	.060		
21. Forearm-Hand Length	.189		53. Foot Breadth	.142	85. Mentoh-Vertex Height	.000		
22. Functional Reach	.198		54. Hand Length	.145	86. Head Height (Tragion to Vertex)	.056		
23. Bideltoid Diameter	.582		55. Hand Breadth	.200	87. Lip-to-Lip Distance	-.053		
24. Chest Breadth	.626		56. Hand Breadth at Thumb	.207	88. Nose Length	.050		
25. Waist Breadth	.868		57. Thickness at Metacarpal III	.179	89. Nose Protrusion	.074		
26. Hip Breadth	.648		58. Hand Circumference	.225	90. Ear Length	.204		
27. Chest Depth	.685		59. Hand Circumference at Thumb	.287	91. Ear Breadth	.122		
28. Waist Depth	.865		60. Head Circumference	.292	92. Ear Protrusion	.033		
29. Buttock Depth	.777		61. Sagittal Arc	.045	93. Subscapular Skinfold	.643		
30. Hip Breadth-Sitting	.700		62. Bitragion-Coronal Arc	.130	94. Juxta-Nipple Skinfold	.648		
31. Neck Circumference	.529		63. Bitragion-Minimum Frontal Arc	.220	95. Back of Arm Skinfold	.433		
32. Shoulder Circumference	.651		64. Bitragion-Subnasale Arc	.281	96. Mid/Axillary Line at Umbilious Skin Fold	.625		

No.	35. Buttock Circumference	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		<b>38.60</b>	<b>2.00</b>	<b>32.3 - 45.7</b>	<b>34.5</b>	<b>38.7</b>	<b>42.6</b>	<b>-0.0007</b>	<b>0.0652</b>
1.	Weight	.893		33. Chest Circumference	.725	65. Bitragion-Menton Arc		.384	
2.	Stature	.354		34. Waist Circumference	.796	66. Bitragion-Submandibular Arc		.428	
3.	Tragion Height	.350		35. Buttock Circumference		67. Bitragion-Inion Arc		.113	
4.	Cervicale Height	.355		36. Buttock Circumference Sitting	.910	68. Head Length		.183	
5.	Suprasternale Height	.388		37. Thigh Circumference	.870	69. Tragion to Wall		.112	
6.	Nipple (Chest) Height	.320		38. Lower Thigh Circumference	.717	70. Nasal Root to Wall		.191	
7.	Waist height	.261		39. Calf Circumference	.670	71. Pronasale to Wall		.219	
8.	Penale Height	.223		40. Ankle Circumference	.571	72. External Canthus to Wall		.179	
9.	Gluteal Furrow Height	.237		41. Scye Circumference	.625	73. Head Breadth		.243	
10.	Crotch Height	.193		42. Axillary Arm Circumference	.693	74. Bitragion Diameter		.329	
11.	Patella Height	.271		43. Biceps Circumference	.678	75. Maximum Frontal Diameter		.212	
12.	Sitting Height	.292		44. Lower Arm Circumference	.579	76. Bzygomatic Diameter		.298	
13.	Eye Height Sitting	.306		45. Wrist Circumference	.493	77. Bigonial Diameter		.295	
14.	Shoulder Height Sitting	.220		46. Sleeve Inseam	.129	78. Biocular Diameter		.166	
15.	Elbow Rest Height	.188		47. Sleeve Length (Spine-Wrist)	.403	79. Interpupillary Distance		.125	
16.	Knee Height Sitting	.358		48. Gluteal Arc	.253	80. Interocular Diameter		.074	
17.	Popliteal Height Sitting	.104		49. Vertical Trunk Circumference	.708	81. Nasal Root Breadth		.141	
18.	Buttock-Popliteal Length	.420		50. Interscye	.384	82. Nose Breadth		.181	
19.	Buttock-Knee Length	.548		51. Interscye Maximum	.485	83. Lip Length		.135	
20.	Shoulder-Elbow Length	.235		52. Foot Length	.317	84. Menton-Subnasale Length		.074	
21.	Forearm-Hand Length	.270		53. Foot Breadth	.226	85. Menton-Vertex Height		.074	
22.	Functional Reach	.284		54. Hand Length	.198	86. Head Height (Tragion to Vertex)		.093	
23.	Bideltoid Diameter	.617		55. Hand Breadth	.271	87. Lip-to-Lip Distance		.008	
24.	Chest Breadth	.606		56. Hand Breadth at Thumb	.302	88. Nose Length		.061	
25.	Waist Breadth	.778		57. Thickness at Metacarpal III	.199	89. Nose Protrusion		.092	
26.	Hip Breadth	.833		58. Hand Circumference	.299	90. Ear Length		.208	
27.	Chest Depth	.621		59. Hand Circumference at Thumb	.380	91. Ear Breadth		.135	
28.	Waist Depth	.682		60. Head Circumference	.301	92. Ear Protrusion		.047	
29.	Buttock Depth	.775		61. Sagittal Arc	.061	93. Subscapular Skinfold		.538	
30.	Hip Breadth-Sitting	.815		62. Bitragion-Coronral Arc	.183	94. Juxta-Nipple Skinfold		.537	
31.	Neck Circumference	.530		63. Bitragion-Minimum Frontal Arc	.262	95. Back of Arm Skinfold		.442	
32.	Shoulder Circumference	.672		64. Bitragion-Subnasale Arc	.323	96. Mid/Axillary Line at Umbilicus Skin Fold		.591	

No.	Measurement	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
36.	Buttock Circumference Sitting	41.90	2.29	35.5 - 51.6	37.2	41.9	46.9	0.1699	0.2207
1.	Weight	.881		33. Chest Circumference	.719		65. Bitragion-Menton Arc		.398
2.	Stature	.361		34. Waist Circumference	.820		66. Bitragion-Submandibular Arc		.456
3.	Tragion Height	.359		35. Buttock Circumference	.910		67. Bitragion-inion Arc		.073
4.	Cervicale Height	.363		36. Buttock Circumference Sitting			68. Head Length		.203
5.	Suprasternale Height	.400		37. Thigh Circumference	.816		69. Tragion to Wall		.116
6.	Nipple (Chest) Height	.337		38. Lower Thigh Circumference	.699		70. Nasal Root to Wall		.200
7.	Waist height	.258		39. Calf Circumference	.634		71. Pronasale to Wall		.246
8.	Penale Height:	.200		40. Ankle Circumference	.560		72. External Canthus to Wall		.198
9.	Gluteal Furrow Height	.252		41. Scye Circumference	.626		73. Head Breadth		.255
10.	Crotch Height	.193		42. Axillary Arm Circumference	.673		74. Bitragion Diameter		.335
11.	Patella Height	.295		43. Biceps Circumference	.653		75. Maximum Frontal Diameter		.194
12.	Sitting Height	.297		44. Lower Arm Circumference	.565		76. Bizygomatic Diameter		.296
13.	Eye Height Sitting	.321		45. Wrist Circumference	.491		77. Bигonial Diameter		.259
14.	Shoulder Height Sitting	.362		46. Sleeve Inseam	.133		78. Bicocular Diameter		.160
15.	Elbow Rest Height	.214		47. Sleeve Length (Spine-Wrist)	.399		79. Interpupillary Distance		.139
16.	Knee Height Sitting	.366		48. Gluteal Arc	.253		80. Interocular Diameter		.097
17.	Popliteal Height Sitting	.090		49. Vertical Trunk Circumference	.704		81. Nasal Root Breadth		.154
18.	Buttock-Popliteal Length	.417		50. Interscye	.383		82. Nose Breadth		.202
19.	Buttock-Knee Length	.545		51. Interscye Maximum	.474		83. Lip Length		.190
20.	Shoulder-E Ibcow Length	.256		52. Foot Length	.296		84. Menton-Subnasale Length		.062
21.	Forearm-Hand Length	.260		53. Foot Breadth	.250		85. Menton-Vertex Height		.047
22.	Functional Reach	.279		54. Hand Length	.203		86. Head Height (Tragion to Vertex)		.085
23.	Bideltoid Diameter	.603		55. Hand Breadth	.294		87. Lip-to-Lip Distance		.008
24.	Chest Breadth	.597		56. Hand Breadth at Thumb	.307		88. Nose Length		.105
25.	Waist Breadth	.782		57. Thickness at Metacarpal III	.190		89. Nose Protrusion		.137
26.	Hip Breadth	.779		58. Hand Circumference	.317		90. Ear Length		.238
27.	Chest Depth	.627		59. Hand Circumference at Thumb	.383		91. Ear Breadth		.147
28.	Waist Depth	.730		60. Head Circumference	.299		92. Ear Protrusion		.072
29.	Buttock Depth	.759		61. Sagittal Arc	.008		93. Subscapular Skinfold		.523
30.	Hip Breadth-Sitting	.815		62. Bitragion-Coronal Arc	.139		94. Juxta-Nipple Skinfold		.539
31.	Neck Circumference	.530		63. Bitragion-Minimum Frontal Arc	.282		95. Back of Arm Skinfold		.379
32.	Shoulder Circumference	.638		64. Bitragion-Subnasale Arc	.341		96. Mid/Axillary Line at Umbilicus Skin Fold		.536



## No. 38. Lower Thigh Circumference

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	15.97	1.18	12.4 - 23.7	13.7	15.9	18.5	0.3847	1.2527
1. Weight	.723		33. Chest Circumference	.609		65. Bitragion-Menton Arc	.345	
2. Stature	.210		34. Waist Circumference	.610		66. Bitragion-Submandibular Arc	.385	
3. Tragion Height	.211		35. Buttock Circumference	.717		67. Bitragion-Union Arc	-.012	
4. Cervicale Height	.196		36. Buttock Circumference Sitting	.699		68. Head Length	.175	
5. Supra sternale Height	.246		37. Thigh Circumference	.750		69. Tragion to Wall	.029	
6. Nipple (Chest) Height	.211		38. Lower Thigh Circumference			70. Nasal Root to Wall	.167	
7. Waist height	.139		39. Calf Circumference	.698		71. Pronasale to Wall	.191	
8. Penale Height	.103		40. Ankle Circumference	.603		72. External Canthus to Wall	.156	
9. Gluteal Furrow Height	.133		41. Scye Circumference	.561		73. Head Breadth	.249	
10. Crotch Height	.145		42. Axillary Arm Circumference	.571		74. Bitragion Diameter	.291	
11. Patella Height	.211		43. Biceps Circumference	.671		75. Maximum Frontal Diameter	.209	
12. Sitting Height	.163		44. Lower Arm Circumference	.618		76. Bizygomatic Diameter	.272	
13. Eye Height Sitting	.198		45. Wrist Circumference	.528		77. Biconial Diameter	.176	
14. Shoulder Height Sitting	.207		46. Sleeve Inseam	.054		78. Biocular Diameter	.185	
15. Elbow Rest Height	.119		47. Sleeve Length (Spine-Wrist)	.277		79. Interpupillary Distance	.136	
16. Knee Height Sitting	.295		48. Gluteal Arc	.217		80. Interocular Diameter	.115	
17. Popliteal Height Sitting	-.002		49. Vertical Trunk Circumference	.518		81. Nasal Root Breadth	.220	
18. Buttock-Popliteal Length	.276		50. Interscye	.355		82. Nose Breadth	.165	
19. Buttock-Knee Length	.390		51. Interscye Maximum	.407		83. Lip Length	.205	
20. Shoulder-Elbow Length	.141		52. Foot Length	.190		84. Menton-Subnasale Length	.088	
21. Forearm-Hand Length	.157		53. Foot Breadth	.304		85. Menton-Vertex Height	.070	
22. Functional Reach	.166		54. Hand Length	.136		86. Head Height (Tragion to Vertex)	.102	
23. Bideitoid Diameter	.511		55. Hand Breadth	.290		87. Lip-to-Lip Distance	.069	
24. Chest Breadth	.538		56. Hand Breadth at Thumb	.280		88. Nose Length	.077	
25. Waist Breadth	.602		57. Thickness at Metacarpal III	.130		89. Nose Protrusion	.142	
26. Hip Breadth	.617		58. Hand Circumference	.330		90. Ear Length	.140	
27. Chest Depth	.499		59. Hand Circumference at Thumb	.397		91. Ear Breadth	.147	
28. Waist Depth	.532		60. Head Circumference	.248		92. Ear Protrusion	.079	
29. Buttock Depth	.624		61. Sagittal Arc	-.029		93. Subscapular Skinfold	.380	
30. Hip Breadth-Sitting	.598		62. Bitragion-Coronal Arc	.126		94. Juxta-Nipple Skinfold	.376	
31. Neck Circumference	.537		63. Bitragion-Minimum Frontal Arc	.259		95. Back of Arm Skinfold	.313	
32. Shoulder Circumference	.505		64. Bitragion-Subnasale Arc	.315		96. Mid/Axillary Line at Umbilious Skin Fold	.419	



No.	40. Ankle Circumference	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		8.89	.49	7.2 - 10.7	7.9	8.9	10.0	0.2293	0.2146
1.	Weight	.651		33. Chest Circumference	.451		65. Bitragion-Menton Arc		.339
2.	Stature	.354		34. Waist Circumference	.418		66. Bitragion-Submandibular Arc		.307
3.	Tragion Height	.345		35. Buttock Circumference	.571		67. Bitragion-Inion Arc		.110
4.	Cervicale Height	.350		36. Buttock Circumference Sitting	.560		68. Head Length		.211
5.	Suprasternale Height	.352		37. Thigh Circumference	.540		69. Tragion to Wall		.063
6.	Nipple (Chest) Height	.306		38. Lower Thigh Circumference	.603		70. Nasal Root to Wall		.204
7.	Waist height	.278		39. Calf Circumference	.736		71. Pronasale to Wall		.236
8.	Penale Height	.239		40. Ankle Circumference	.462		72. External Canthus to Wall		.199
9.	Gluteal Furrow Height	.252		41. Seye Circumference	.397		73. Head Breadth		.224
10.	Crotch Height	.211		42. Axillary Arm Circumference	.490		74. Bitragion Diameter		.281
11.	Patella Height	.287		43. Biceps Circumference	.515		75. Maximum Frontal Diameter		.153
12.	Sitting Height	.314		44. Lower Arm Circumference	.587		76. Bzygomatic Diameter		.195
13.	Eye Height Sitting	.298		45. Wrist Circumference	.587		77. Bigonial Diameter		.144
14.	Shoulder Height Sitting	.294		46. Sleeve Inseam	.154		78. Bicocular Diameter		.173
15.	Elbow Rest Height	.156		47. Sleeve Length (Spine-Wrist)	.351		79. Interpupillary Distance		.161
16.	Knee Height Sitting	.395		48. Gluteal Arc	.217		80. Interocular Diameter		.159
17.	Popliteal Height Sitting	.192		49. Vertical Trunk Circumference	.481		81. Nasal Root Breadth		.199
18.	Buttock-Popliteal Length	.260		50. Interscye	.265		82. Nose Breadth		.153
19.	Buttock-Knee Length	.395		51. Interscye Maximum	.302		83. Lip Length		.138
20.	Shoulder-Elbow Length	.233		52. Foot Length	.450		84. Menton-Subnasale Length		.163
21.	Forearm-Hand Length	.326		53. Foot Breadth	.380		85. Menton-Vertex Height		.181
22.	Functional Reach	.238		54. Hand Length	.358		86. Head Height (Tragion to Vertex)		.059
23.	Bideltoid Diameter	.458		55. Hand Breadth	.461		87. Lip-to-Lip Distance		.113
24.	Chest Breadth	.415		56. Hand Breadth at Thumb	.465		88. Nose Length		.126
25.	Waist Breadth	.457		57. Thickness at Metacarpal III	.290		89. Nose Protrusion		.179
26.	Hip Breadth	.522		58. Hand Circumference	.474		90. Ear Length		.131
27.	Chest Depth	.381		59. Hand Circumference at Thumb	.509		91. Ear Breadth		.088
28.	Waist Depth	.348		60. Head Circumference	.272		92. Ear Protrusion		.204
29.	Buttock Depth	.427		61. Sagittal Arc	.067		93. Subscapular Skinfold		.208
30.	Hip Breadth-Sitting			62. Bitragion-Coronal Arc	.194		94. Juxta-Nipple Skinfold		.209
31.	Neck Circumference			63. Bitragion-Minimum Frontal Arc	.270		95. Back of Arm Skinfold		.221
32.	Shoulder Circumference			64. Bitragion-Subnasale Arc	.299		96. Mid/Axillary Line at Umbilicus Skin Fold		

No. 41. Scye Circumference

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	17.69	1.05	13.6 - 23.0	15.8	17.6	20.0	0.3422	0.7204

1. Weight .705  
 2. Stature .339  
 3. Tragion Height .338  
 4. Cervicale Height .342  
 5. Suprasternale Height .367  
 6. Nipple (Chest) Height .317  
 7. Waist height .271  
 8. Penale Height .240  
 9. Gluteal Furrow Height .287  
 10. Crotch Height .238  
 11. Patella Height .332  
 12. Sitting Height .252  
 13. Eye Height Sitting .278  
 14. Shoulder Height Sitting .317  
 15. Elbow Rest Height .105  
 16. Knee Height Sitting .404  
 17. Popliteal Height Sitting .152  
 18. Buttock-Popliteal Length .336  
 19. Buttock-Knee Length .462  
 20. Shoulder-Elbow Length .342  
 21. Forearm-Hand Length .299  
 22. Functional Reach .287  
 23. Bideltoid Diameter .598  
 24. Chest Breadth .580  
 25. Waist Breadth .595  
 26. Hip Breadth .507  
 27. Chest Depth .552  
 28. Waist Depth .501  
 29. Buttock Depth .565  
 30. Hip Breadth-Sitting .550  
 31. Neck Circumference .580  
 32. Shoulder Circumference .577  
 33. Chest Circumference .649  
 34. Waist Circumference .588  
 35. Buttock Circumference .625  
 36. Buttock Circumference Sitting .626  
 37. Thigh Circumference .577  
 38. Lower Thigh Circumference .561  
 39. Calf Circumference .526  
 40. Ankle Circumference .462  
 41. Scye Circumference .632  
 42. Axillary Arm Circumference .695  
 43. Biceps Circumference .637  
 44. Lower Arm Circumference .528  
 45. Wrist Circumference .170  
 46. Sleeve Inseam .170  
 47. Sleeve Length (Spine-Wrist) .420  
 48. Gluteal Arc .199  
 49. Vertical Trunk Circumference .555  
 50. Intersoye .378  
 51. Intersoye Maximum .453  
 52. Foot Length .233  
 53. Foot Breadth .313  
 54. Hand Length .262  
 55. Hand Breadth .378  
 56. Hand Breadth at Thumb .375  
 57. Thickness at Metacarpal III .214  
 58. Hand Circumference .425  
 59. Hand Circumference at Thumb .451  
 60. Head Circumference .263  
 61. Sagittal Arc -.062  
 62. Bitragion-Coronal Arc .100  
 63. Bitragion-Minimum Frontal Arc .293  
 64. Bitragion-Subnasale Arc .384  
 65. Bitragion-Menton Arc .429  
 66. Bitragion-Submandibular Arc .464  
 67. Bitragion-Inion Arc -.006  
 68. Head Length .206  
 69. Tragion to Wall .025  
 70. Nasal Root to Wall .185  
 71. Promasale to Wall .256  
 72. External Canthus to Wall .189  
 73. Head Breadth .218  
 74. Bitragion Diameter .336  
 75. Maximum Frontal Diameter .181  
 76. Bzygomatic Diameter .223  
 77. Bigonial Diameter .176  
 78. Biocular Diameter .181  
 79. Interpupillary Distance .149  
 80. Interocular Diameter .116  
 81. Nasal Root Breadth .189  
 82. Nose Breadth .206  
 83. Lip Length .255  
 84. Menton-Subnasale Length .076  
 85. Menton-Vertex Height .030  
 86. Head Height (Tragion to Vertex) .079  
 87. Lip-to-Lip Distance .027  
 88. Nose Length .124  
 89. Nose Protrusion .140  
 90. Ear Length .183  
 91. Ear Breadth .164  
 92. Ear Protrusion .088  
 93. Subscapular Skinfold .386  
 94. Juxta-Nipple Skinfold .351  
 95. Back of Arm Skinfold .221  
 96. Mid/Axillary Line at Umbilicus Skin Fold .364

No. 42. Axillary Arm Circumference

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	13.00	.98	9.4 - 16.0	11.0	13.0	15.0	-0.0640	-0.0039
<b>1. Weight</b>	.727				.714			.337
<b>2. Stature</b>	.134				.677			.405
<b>3. Tragion Height</b>	.141				.693			.114
<b>4. Cervicale Height</b>	.128				.673			.161
<b>5. Suprasternal Height</b>	.181				.699			.167
<b>6. Nipple (Chest) Height</b>	.116				.571			.185
<b>7. Waist height</b>	.093				.543			.168
<b>8. Penale Height</b>	.096				.397			.167
<b>9. Gluteal Furrow Height</b>	.082				.632			.202
<b>10. Crotch Height</b>	.053				.741			.250
<b>11. Patella Height</b>	.109				.750			.236
<b>12. Sitting Height</b>	.087				.773			.331
<b>13. Eye Height Sitting</b>	.104				.635			.344
<b>14. Shoulder Height Sitting</b>	.090				.401			.141
<b>15. Elbow Rest Height</b>	.101				.002			.029
<b>16. Knee Height Sitting</b>	.131				.230			-.014
<b>17. Popliteal Height Sitting</b>	-.001				.022			
<b>18. Buttock-Popliteal Length</b>	.208				.041			
<b>19. Buttock-Knee Length</b>	.301				.540			
<b>20. Shoulder-Elbow Length</b>	.014				.387			
<b>21. Forearm-Hand Length</b>	.117				.540			
<b>22. Functional Reach</b>	.203				.387			
<b>23. Bideitoid Diameter</b>	.578				.497			
<b>24. Chest Breadth</b>	.502				.497			
<b>25. Waist Breadth</b>	.592				.124			
<b>26. Hip Breadth</b>	.495				.078			
<b>27. Chest Depth</b>	.588				.016			
<b>28. Waist Depth</b>	.573				.016			
<b>29. Buttock Depth</b>	.580				.003			
<b>30. Hip Breadth-Sitting</b>	.500				.151			
<b>31. Neck Circumference</b>	.510				.053			
<b>32. Shoulder Circumference</b>	.732				.077			
<b>33. Chest Circumference</b>					.017			
<b>34. Waist Circumference</b>					.014			
<b>35. Buttock Circumference</b>					.041			
<b>36. Buttock Circumference Sitting</b>					.530			
<b>37. Thigh Circumference</b>					.474			
<b>38. Lower Thigh Circumference</b>					.347			
<b>39. Calf Circumference</b>					.610			
<b>40. Ankle Circumference</b>								
<b>41. Scye Circumference</b>								
<b>42. Axillary Arm Circumference</b>								
<b>43. Biceps Circumference</b>								
<b>44. Lower Arm Circumference</b>								
<b>45. Wrist Circumference</b>								
<b>46. Sleeve Inseam</b>								
<b>47. Sleeve Length (Spine-Wrist)</b>								
<b>48. Gluteal Arc</b>								
<b>49. Vertical Trunk Circumference</b>								
<b>50. Interscyte</b>								
<b>51. Interscyte Maximum</b>								
<b>52. Foot Length</b>								
<b>53. Foot Breadth</b>								
<b>54. Hand Length</b>								
<b>55. Hand Breadth</b>								
<b>56. Hand Breadth at Thumb</b>								
<b>57. Thickness at Metacarpal III</b>								
<b>58. Hand Circumference</b>								
<b>59. Hand Circumference at Thumb</b>								
<b>60. Head Circumference</b>								
<b>61. Sagittal Arc</b>								
<b>62. Bitragion-Coronal Arc</b>								
<b>63. Bitragion-Minimum Frontal Arc</b>								
<b>64. Bitragion-Subnasale Arc</b>								
<b>65. Bitragion-Menton Arc</b>								
<b>66. Bitragion-Submandibular Arc</b>								
<b>67. Bitragion-Inion Arc</b>								
<b>68. Head Length</b>								
<b>69. Tragion to Wall</b>								
<b>70. Nasal Root to Wall</b>								
<b>71. Pronasale to Wall</b>								
<b>72. External Canthus to Wall</b>								
<b>73. Head Breadth</b>								
<b>74. Bitragion Diameter</b>								
<b>75. Maximum Frontal Diameter</b>								
<b>76. Bizygomatic Diameter</b>								
<b>77. Bifrontal Diameter</b>								
<b>78. Bicocular Diameter</b>								
<b>79. Interpupillary Distance</b>								
<b>80. Interocular Diameter</b>								
<b>81. Nasal Root Breadth</b>								
<b>82. Nose Breadth</b>								
<b>83. Lip Length</b>								
<b>84. Menton-Subnasale Length</b>								
<b>85. Menton-Vertex Height</b>								
<b>86. Head Height (Tragion to Vertex)</b>								
<b>87. Lip-to-Lip Distance</b>								
<b>88. Nose Length</b>								
<b>89. Nose Protrusion</b>								
<b>90. Ear Length</b>								
<b>91. Ear Breadth</b>								
<b>92. Ear Protrusion</b>								
<b>93. Subscapular Skinfold</b>								
<b>94. Juxta-Nipple Skinfold</b>								
<b>95. Back of Arm Skinfold</b>								
<b>96. Mid/Axillary Line at Umbilicus Skin Fold</b>								



No.	44. Lower Arm Circumference	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
11.84		.69		9.6 - 14.4	10.5	11.8	13.4	0.2554	0.1899
1. Weight	.675								
2. Stature	.300								
3. Tragion Height	.299								
4. Cervicale Height	.275								
5. Suprasternale Height	.320								
6. Nipple (Chest) Height	.273								
7. Waist height	.228								
8. Female Height	.210								
9. Gluteal Frown Height	.236								
10. Crotch Height	.228								
11. Patella Height	.275								
12. Sitting Height	.239								
13. Eye Height Sitting	.259								
14. Shoulder Height Sitting	.241								
15. Elbow Rest Height	.120								
16. Knee Height Sitting	.334								
17. Popliteal Height Sitting	.145								
18. Buttock-Knee Length	.243								
19. Buttock-Knee Length	.371								
20. Shoulder-Elbow Length	.199								
21. Forearm-Hand Length	.271								
22. Functional Reach	.272								
23. Bidehoid Diameter	.566								
24. Chest Breadth	.515								
25. Waist Breadth	.502								
26. Hip Breadth	.491								
27. Chest Depth	.480								
28. Waist Depth	.417								
29. Buttock Depth	.481								
30. Hip Breadth-Sitting	.460								
31. Neck Circumference	.597								
32. Shoulder Circumference	.579								
33. Chest Circumference					.615				
34. Waist Circumference					.502				
35. Buttock Circumference					.579				
36. Buttock Circumference Sitting					.565				
37. Thigh Circumference					.578				
38. Lower Thigh Circumference					.618				
39. Calf Circumference					.605				
40. Ankle Circumference					.515				
41. Scye Circumference					.637				
42. Axillary Arm Circumference					.635				
43. Biceps Circumference					.775				
44. Lower Arm Circumference									
45. Wrist Circumference					.612				
46. Sleeve Inseam					.136				
47. Sleeve Length (Spine-Wrist)					.375				
48. Gluteal Arc					.159				
49. Vertical Trunk Circumference					.522				
50. Interscye					.389				
51. Interscye Maximum					.459				
52. Foot Length					.254				
53. Foot Breadth					.286				
54. Hand Length					.230				
55. Hand Breadth					.409				
56. Hand Breadth at Thumb					.439				
57. Thickness at Metacarpal III					.260				
58. Hand Circumference					.468				
59. Hand Circumference at Thumb					.552				
60. Head Circumference					.436				
61. Sagittal Arc					.012				
62. Bitragion-Coronal Arc					.150				
63. Bitragion-Minimum Frontal Arc					.275				
64. Bitragion-Subnasale Arc					.351				

No.	45. Wrist Circumference	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
1.	Weight	.591							
2.	Stature	.422							
3.	Tragion Height	.422							
4.	Cervicale Height	.402							
5.	Supra sternale Height	.420							
6.	Nipple (Chest) Height	.376							
7.	Waist height	.330							
8.	Penale Height	.280							
9.	Gluteal Furrrow Height	.293							
10.	Crotch Height	.296							
11.	Patella Height	.347							
12.	Sitting Height	.393							
13.	Eye Height Sitting	.397							
14.	Shoulder Height Sitting	.373							
15.	Elbow Rest Height	.158							
16.	Knee Height Sitting	.428							
17.	Popliteal Height Sitting	.256							
18.	Buttock-Popliteal Length	.267							
19.	Buttock-Knee Length	.410							
20.	Shoulder-Elbow Length	.343							
21.	Forearm-Hand Length	.413							
22.	Functional Reach	.338							
23.	Birdf Itoid Diameter	.461							
24.	Chest Breadth	.400							
25.	Waist Breadth	.412							
26.	Hip Breadth	.455							
27.	Chest Depth	.353							
28.	Waist Depth	.36							
29.	Buttock Depth	.373							
30.	Hip Breadth-Sitting	.436							
31.	Neck Circumference	.462							
32.	Shoulder Circumference	.427							
33.	Chest Circumference				.422				
34.	Waist Circumference				.380				
35.	Buttock Circumference				.493				
36.	Buttock Circumference Sitting				.491				
37.	Thigh Circumference				.404				
38.	Lower Thigh Circumference				.528				
39.	Calf Circumference				.506				
40.	Ankle Circumference				.587				
41.	Soye Circumference				.528				
42.	Axillary Arm Circumference				.401				
43.	Biceps Circumference				.505				
44.	Lower Arm Circumference				.612				
45.	Wrist Circumference				.253				
46.	Sleeve Inseam				.434				
47.	Sleeve Length (Spine-Wrist)				.290				
48.	Gluetral Arc				.499				
49.	Vertical Trunk Circumference				.321				
50.	Interscye				.364				
51.	Interscye Maximum				.387				
52.	Foot Length				.371				
53.	Foot Breadth				.419				
54.	Hand Length				.565				
55.	Hand Breadth				.567				
56.	Hand Breadth at Thumb				.339				
57.	Thickness at Metacarpal III				.600				
58.	Hand Circumference				.649				
59.	Hand Circumference at Thumb				.263				
60.	Head Circumference				.015				
61.	Sagittal Arc				.09				
62.	Bitragion-Coronal Arc				.256				
63.	Bitragion-Minimum Frontal Arc				.348				
64.	Bitragion-Subnasale Arc								

No.	46. Sleeve Inseam	Mean 18.31	S. D. .93	Range 15.4 - 21.3	2nd Percentile 16.5	Median 18.3	98th Percentile 20.2	Skewness 0.0813	Kurtosis -0.2180
1. Weight	.262								
2. Stature	.715								
3. Tragion Height	.715								
4. Cervicale Height	.708								
5. Supraesternal Height	.709								
6. Nipple (Chest) Height	.716								
7. Waist Height	.743								
8. Penale Height	.746								
9. Gluteal Furrow Height	.750								
10. Crotch Height	.757								
11. Patella Height	.639								
12. Sitting Height	.370								
13. Eye Height Sitting	.373								
14. Shoulder Height Sitting	.292								
15. Elbow Rest Height	.204								
16. Knee Height Sitting	.696								
17. Popliteal Height Sitting	.684								
18. Buttock-Popliteal Length	.555								
19. Buttock-Knee Length	.628								
20. Shoulder-Elbow Length	.732								
21. Forearm-Hand Length	.772								
22. Functional Reach	.718								
23. Bicipital Diameter	.201								
24. Chest Breadth	.089								
25. Waist Breadth	.158								
26. Hip Breadth	.050								
27. Chest Depth	.002								
28. Waist Depth	.013								
29. Buttock Depth	.229								
30. Hip Breadth-Sitting	.153								
31. Neck Circumference	.076								
32. Shoulder Circumference	.131								
33. Chest Circumference									
34. Waist Circumference									
35. Buttock Circumference									
36. Buttock Circumference Sitting									
37. Thigh Circumference									
38. Lower Thigh Circumference									
39. Calf Circumference									
40. Ankle Circumference									
41. Scye Circumference									
42. Axillary Arm Circumference									
43. Biceps Circumference									
44. Lower Arm Circumference									
45. Wrist Circumference									
46. Sleeve Inseam									
47. Sleeve Length (Spine-Wrist)									
48. Gluteal Arc									
49. Vertical Trunk Circumference									
50. Interscye									
51. Interscye Maximum									
52. Foot Length									
53. Foot Breadth									
54. Hand Length									
55. Hand Breadth									
56. Hand Breadth at Thumb									
57. Thickness at Metacarpal III									
58. Hand Circumference									
59. Hand Circumference at Thumb									
60. Head Circumference									
61. Sagittal Arc									
62. Bitragion-Coronal Arc									
63. Bitragion-Minimum Frontal Arc									
64. Bitragion-Subnasale Arc									
65. Bitragion-Meaton Arc									
66. Bitragion-Submandibular Arc									
67. Bitragion-Union Arc									
68. Head Length									
69. Tragion to Wall									
70. Nasal Root to Wall									
71. Pronasale to Wall									
72. External Canthus to Wall									
73. Head Breadth									
74. Bitragion Diameter									
75. Maximum Frontal Diameter									
76. Bizygomatic Diameter									
77. Biconial Diameter									
78. Bicocular Diameter									
79. Interpupillary Distance									
80. Interocular Diameter									
81. Nasal Foot Breadth									
82. Nose Breadth									
83. Lip Length									
84. Menton-Subnasale Length									
85. Menton-Vertex Height									
86. Head Height (Tragion to Vertex)									
87. Lip-to-Lip Distance									
88. Nose Length									
89. Nose Protrusion									
90. Ear Length									
91. Ear Breadth									
92. Ear Protrusion									
93. Subscapular Skinfold									
94. Juxta-Nipple Skinfold									
95. Back of Arm Skinfold									
96. Mid/Axillary Line at Umbilicus Skinfold									

## No. 47. Sleeve Length (Spine-Wrist)

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	34.99	1.38	30.9 - 39.8	32.3	35.0	38.0	0.1555	-0.0873
1. Weight	.564		33. Chest Circumference	.407	65. Bitragion-Menton Arc	.339		
2. Stature	.718		34. Waist Circumference	.323	66. Bitragion-Submandibular Arc	.321		
3. Tragion Height	.717		35. Buttock Circumference	.403	67. Bitragion-Inion Arc	.159		
4. Cervicale Height	.711		36. Buttock Circumference Sitting	.399	68. Head Length	.215		
5. Suprasternale Height	.726		37. Thigh Circumference	.291	69. Tragion to Wall	.126		
6. Nipple (Chest) Height	.676		38. Lower Thigh Circumference	.277	70. Nasal Root to Wall	.220		
7. Waist height	.708		39. Calf Circumference	.315	71. Pronasafe to Wall	.284		
8. Penale Height	.697		40. Ankle Circumference	.351	72. External Canthus to Wall	.193		
9. Gluteal Furrow Height	.690		41. Scye Circumference	.420	73. Head Breadth	.162		
10. Crotch Height	.680		42. Axillary Arm Circumference	.330	74. Bitragion Diameter	.219		
11. Patella Height	.627		43. Biceps Circumference	.285	75. Maximum Frontal Diameter	.168		
12. Sitting Height	.448		44. Lower Arm Circumference	.375	76. Bzygomatic Diameter	.217		
13. Eye Height Sitting	.441		45. Wrist Circumference	.434	77. Bigonial Diameter	.181		
14. Shoulder Height Sitting	.347		46. Sleeve Inseam	.708	78. Biocular Diameter	.190		
15. Elbow Rest Height	-.087		47. Sleeve Length (Spine-Wrist)		79. Interpupillary Distance	.158		
16. Knee Height Sitting	.669		48. Gluteal Arc	.202	80. Interocular Diameter	.046		
17. Popliteal Height Sitting	.639		49. Vertical Trunk Circumference	.508	81. Nasal Root Breadth	.090		
18. Buttock-Popliteal Length	.572		50. Interscye	.307	82. Nose Breadth	.103		
19. Buttock-Knee Length	.669		51. Interscye Maximum	.390	83. Lip Length	.068		
20. Shoulder-Elbow Length	.663		52. Foot Length	.555	84. Menton-Subnasale Length	.142		
21. Forearm-Hand Length	.722		53. Foot Breadth	.193	85. Menton-Vertex Height	.159		
22. Functional Reach	.707		54. Hand Length	.513	86. Head Height (Tragion to Vertex)	.106		
23. Bideltoid Diameter	.476		55. Hand Breadth	.327	87. Lip-to-Lip Distance	.066		
24. Chest Breadth	.341		56. Hand Breadth at Thumb	.380	88. Nose Length	.133		
25. Waist Breadth	.359		57. Thickness at Metacarpal III	.243	89. Nose Protrusion	.131		
26. Hip Breadth	.415		58. Hand Circumference	.343	90. Ear Length	.178		
27. Chest Depth	.281		59. Hand Circumference at Thumb	.424	91. Ear Breadth	.146		
28. Waist Depth	.222		60. Head Circumference	.259	92. Ear Protrusion	.071		
29. Buttock Depth	.223		61. Sagittal Arc	.140	93. Subscapular Skinfold	.077		
30. Hip Breadth-Sitting	.361		62. Bitragion-Coronal Arc	.196	94. Juxta-Nipple Skinfold	.076		
31. Neck Circumference	.312		63. Bitragion-Minimum Frontal Arc	.167	95. Back of Arm Skinfold	.054		
32. Shoulder Circumference	.521		64. Bitragion-Subnasale Arc	.229	96. Mid/Axillary Line at Umbilicus Skin Fold	.165		

No.	48. Gluteal Arc	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		10.91	.78	8.7 - 13.6	9.3	10.9	12.6	0.1038	-0.1010
1.	Weight	.249							
2.	Stature	.359							
3.	Tragion Height	.358							
4.	Cervicale Height	.328							
5.	S'iprasternale Height	.353							
6.	Nipple (Chest) Height	.357							
7.	Waist height	.375							
8.	Penale Height	.232							
9.	Gluteal Furrow Height	.161							
10.	Crotch Height	.225							
11.	Patella Height	.240							
12.	Sitting Height	.396							
13.	Eye Height Sitting	.388							
14.	Shoulder Height Sitting	.364							
15.	Elbow Rest Height	.240							
16.	Knee Height Sitting	.254							
17.	Popliteal Height Sitting	.181							
18.	Buttock-Popliteal Length	.240							
19.	Buttock-Knee Length	.272							
20.	Shoulder-Elbow Length	.214							
21.	Forearm-Hand Length	.210							
22.	Functional Reach	.163							
23.	Eideltoid Diameter	.170							
24.	Chest Breadth	.131							
25.	Waist Breadth	.096							
26.	Hip Breadth	.235							
27.	Chest Depth	.026							
28.	Waist Depth	.033							
29.	Buttock Depth	.177							
30.	Hip Breadth Sitting	.234							
31.	Neck Circumference	.107							
32.	Shoulder Circumference	.082							
33.	Chest Circumference	.062							
34.	Waist Circumference	.038							
35.	Buttock Circumference	.253							
36.	Buttock Circumference Sitting	.258							
37.	Thigh Circumference	.137							
38.	Lower Thigh Circumference	.217							
39.	Calf Circumference	.156							
40.	Ankle Circumference	.217							
41.	Soye Circumference	.199							
42.	Axillary Arm Circumference	.022							
43.	Biceps Circumference	.102							
44.	Lower Arm Circumference	.159							
45.	Wrist Circumference	.290							
46.	Sleeve Inseam	.169							
47.	Sleeve Length (Spine-Wrist)	.202							
48.	Gluteal Arc								
49.	Vertical Trunk Circumference	.381							
50.	Interscye	.121							
51.	Interscye Maximum	.180							
52.	Foot Length	.213							
53.	Foot Breadth	.164							
54.	Hand Length	.178							
55.	Hand Breadth	.207							
56.	Hand Breadth at Thumb	.239							
57.	Thickness at Metacarpal III	.069							
58.	Hand Circumference	.214							
59.	Hand Circumference at Thumb	.228							
60.	Head Circumference	.239							
61.	Sagittal Arc	.005							
62.	Bitragion-Coronal Arc	.067							
63.	Bitragion-Minimum Frontal Arc	.123							
64.	Bitragion-Subnasale Arc	.133							

No.	49. Vertical Trunk Circumference	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		65.88	2.62	58.0 - 74.6	60.6	65.8	71.6	0.1116	-0.0762
1.	Weight	.795		33. Chest Circumference	.583	65. Bitragion-Menton Arc	.376		
2.	Stature	.626		34. Waist Circumference	.572	66. Bitragion-Submandibular Arc	.415		
3.	Tragion Height	.624		35. Buttock Circumference	.708	67. Bitragion-Inion Arc	.190		
4.	Cervicale Height	.611		36. Buttock Circumference Sitting	.704	68. Head Length	.231		
5.	Supra sternale Height	.636		37. Thigh Circumference	.612	69. Tragion to Wall	.190		
6.	Nipple (Chest) Height	.568		38. Lower Thigh Circumference	.518	70. Nasal Root to Wall	.241		
7.	Waist height	.470		39. Calf Circumference	.504	71. Pronasale to Wall	.274		
8.	Penale Height	.368		40. Ankle Circumference	.481	72. External Canthus to Wall	.230		
9.	Gluteal Furrow Height	.382		41. Scye Circumference	.555	73. Head Breadth	.199		
10.	Crotch Height	.351		42. Axillary Arm Circumference	.540	74. Bitragion Diameter	.268		
11.	Patella Height	.386		43. Biceps Circumference	.524	75. Maximum Frontal Diameter	.184		
12.	Sitting Height	.642		44. Lower Arm Circumference	.522	76. Bizygomatic Diameter	.280		
13.	Eye Height Sitting	.639		45. Wrist Circumference	.499	77. Biconial Diameter	.311		
14.	Shoulder Height Sitting	.648		46. Sleeve Inseam	.258	78. Biocular Diameter	.135		
15.	Elbow Rest Height	.473		47. Sleeve Length (Spine-Wrist)	.508	79. Interpupillary Distance	.097		
16.	Knee Height Sitting	.437		48. Gluteal Arc	.381	80. Interocular Diameter	.037		
17.	Popliteal Height Sitting	.307		49. Vertical Trunk Circumference	.81	81. Nasal Root Breadth	.063		
18.	Buttock-Popliteal Length	.427		50. Interscye	.327	82. Nose Breadth	.129		
19.	Buttock-Knee Length	.536		51. Interscye Maximum	.477	83. Lip Length	.082		
20.	Shoulder-Elbow Length	.330		52. Foot Length	.419	84. Menton-Subnasale Length	.125		
21.	Forearm-Hand Length	.409		53. Foot Breadth	.164	85. Menton-Vertex Height	.145		
22.	Functional Reach	.403		54. Hand Length	.319	86. Head Height (Tragion to Vertex)	.103		
23.	Bideltoid Diameter	.524		55. Hand Breadth	.324	87. Lip-to-Lip Distance	.009		
24.	Chest Breadth	.478		56. Hand Breadth at Thumb	.370	88. Nose Length	.096		
25.	Waist Breadth	.557		57. Thickness at Metacarpal III	.278	89. Nose Protrusion	.101		
26.	Hip Breadth	.609		58. Hand Circumference	.342	90. Ear Length	.236		
27.	Chest Depth	.472		59. Hand Circumference at Thumb	.437	91. Ear Breadth	.164		
28.	Waist Depth	.506		60. Head Circumference	.312	92. Ear Protrusion	.058		
29.	Buttock Depth	.568		61. Sagittal Arc	.142	93. Subscapular Skinfold	.333		
30.	Hip Breadth-Sitting	.594		62. Bitragion-Coronal Arc	.215	94. Juxta-Nipple Skinfold	.347		
31.	Neck Circumference	.472		63. Bitragion-Minimum: Frontal Arc	.215	95. Back of Arm Skinfold	.215		
32.	Shoulder Circumference	.612		64. Bitragion-Subnasale Arc	.278	96. Mid/Axillary Line at Umbilicus Skin Fold	.398		

No.	50. Interscye	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
1.	Weight	.449							
2.	Stature	.171							
3.	Tragion Height	.173							
4.	Cervicale Height	.162							
5.	Suprasternale Height	.185							
6.	Nipple (Chest) Height	.160							
7.	Waist height	.155							
8.	Penale Height	.154							
9.	Gluteal Furrow Height	.146							
10.	Crotch Height	.137							
11.	Patella Height	.202							
12.	Sitting Height	.078							
13.	Eye Height Sitting	.113							
14.	Shoulder Height Sitting	.020							
15.	Elbow Rest Height	-.127							
16.	Knee Height Sitting	.210							
17.	Popliteal Height Sitting	.073							
18.	Buttock-Popliteal Length	.191							
19.	Buttock-Knee Length	.274							
20.	Shoulder-Elbow Length	.146							
21.	Forearm-Hand Length	.146							
22.	Functional Reach	.219							
23.	Bideltoid Diameter	.641							
24.	Chest Breadth	.512							
25.	Waist Breadth	.398							
26.	Hip Breadth	.290							
27.	Chest Depth	.349							
28.	Waist Depth	.282							
29.	Buttock Depth	.317							
30.	Hip Breadth-Sitting	.316							
31.	Neck Circumference	.420							
32.	Shoulder Circumference	.515							
33.	Chest Circumference	.492							
34.	Waist Circumference	.376							
35.	Buttock Circumference	.384							
36.	Buttock Circumference Sitting	.383							
37.	Thigh Circumference	.348							
38.	Lower Thigh Circumference	.355							
39.	Calf Circumference	.333							
40.	Ankle Circumference	.265							
41.	Scye Circumference	.378							
42.	Axillary Arm Circumference	.367							
43.	Biceps Circumference	.423							
44.	Lower Arm Circumference	.389							
45.	Wrist Circumference	.321							
46.	Sleeve Inseam	.102							
47.	Sleeve Length (Spine-Wrist)	.307							
48.	Gluteal Arc	.121							
49.	Vertical Trunk Circumference	.327							
50.	Interscye	.633							
51.	Interscye Maximum	.066							
52.	Foot Length	.187							
53.	Foot Breadth	.067							
54.	Hand Length	.174							
55.	Hand Breadth	.174							
56.	Hand Breadth at Thumb	.178							
57.	Thickness at Metacarpal III	.055							
58.	Hand Circumference	.211							
59.	Hand Circumference at Thumb	.293							
60.	Head Circumference	.177							
61.	Sagittal Arc	-.075							
62.	Bitragion-Coronal Arc	.053							
63.	Bitragion-Minimum Frontal Arc	.166							
64.	Bitragion-Subnasale Arc	.234							
65.	Bitragion-Menton Arc	.300							
66.	Bitragion-Submandibular Arc	.347							
67.	Bitragion-Inion Arc	-.087							
68.	Head Length	.168							
69.	Tragion to Wall	.049							
70.	Nasal Root to Wall	.160							
71.	Pronasale to Wall	.182							
72.	External Canthus to Wall	.140							
73.	Head Breadth	.163							
74.	Bitragion Diameter	.229							
75.	Maximum Frontal Diameter	.120							
76.	Bizygomatic Diameter	.215							
77.	Bigonial Diameter	.074							
78.	Biocular Diameter	.205							
79.	Interpupillary Distance	.133							
80.	Interocular Diameter	.105							
81.	Nasal Root Breadth	.217							
82.	Nose Breadth	.152							
83.	Lip Length	.206							
84.	Menton-Subnasale Length	.055							
85.	Menton-Vertix Height	.029							
86.	Head Height: (Tragion to Vertex)	.053							
87.	Lip-to-Lip Distance	.063							
88.	Nose Length	.092							
89.	Nose Protrusion	.147							
90.	Ear Length	.068							
91.	Ear Breadth	.059							
92.	Ear Protrusion	.053							
93.	Subscapular Skinfold	.183							
94.	Juxta-Nipple Skinfold	.168							
95.	Back of Arm Skinfold	.047							
96.	Mid/Axillary Line at Umbilicus Skin Fold	.225							

No.	51. Interscye Maximum	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		21.38	1.36	17.0 - 27.6	18.7	21.4	24.1	0.0402	0.0419
1.	Weight	.573		33. Chest Circumference	.582		65. Bitragion-Menton Arc	.297	
2.	Stature	.264		34. Waist Circumference	.471		66. Bitragion-Submandibular Arc	.337	
3.	Tragion Height	.267		35. Buttock Circumference	.485		67. Bitragion-Inion Arc	.075	
4.	Cervicale Height	.254		36. Buttock Circumference Sitting	.474		68. Head Length	.165	
5.	Suprasternale Height	.290		37. Thigh Circumference	.437		69. Tragion to Wall	.129	
6.	Nipple (Chest) Height	.240		38. Lower Thigh Circumference	.407		70. Nasal Root to Wall	.187	
7.	Waist height:	.227		39. Calf Circumference	.388		71. Pronasale to Wall	.176	
8.	Penale Height	.191		40. Ankle Circumference	.302		72. External Canthus to Wall	.156	
9.	Gluteal Furrow Height	.186		41. Scye Circumference	.453		73. Head Breadth	.194	
10.	Crotch Height	.173		42. Axillary Arm Circumference	.497		74. Bitragion Diameter	.246	
11.	Patella Height	.222		43. Biceps Circumference	.475		75. Maximum Frontal Diameter	.208	
12.	Sitting Height	.238		44. Lower Arm Circumference	.459		76. Bizygomatic Diameter	.285	
13.	Eye Height Sitting	.235		45. Wrist Circumference	.364		77. Bigonial Diameter	.268	
14.	Shoulder Height Sitting	.215		46. Sleeve Inseam	.083		78. Bicocular Diameter	.178	
15.	Elbow Rest Height	.118		47. Sleeve Length (Spine-Wrist)	.390		79. Interpupillary Distance	.101	
16.	Knee Height Sitting	.226		48. Gluteal Arc	.180		80. Intercocular Diameter	.048	
17.	Popliteal Height Sitting	.141		49. Vertical Trunk Circumference	.477		81. Nasal Root Breadth	.093	
18.	Buttock-Popliteal Length	.239		50. Interscye	.633		82. Nose Breadth	.134	
19.	Buttock-Knee Length	.327		51. Interscye Maximum			83. Lip Length	.130	
20.	Shoulder-Elbow Length	.154		52. Foot Length	.174		84. Menton-Subnasale Length	.060	
21.	Forearm-Hand Length	.210		53. Foot Breadth	.089		85. Menton-Vertex Height	.057	
22.	Functional Reach	.279		54. Hand Length	.113		86. Head Height (Tragion to Vertex)	.050	
23.	Bideltoid Diameter	.579		55. Hand Breadth	.183		87. Lip-to-Lip Distance	-.022	
24.	Chest Breadth	.537		56. Hand Breadth at Thumb	.211		88. Nose Length	.075	
25.	Waist Breadth	.462		57. Thickness at Metacarpal III	.117		89. Nose Protrusion	.057	
26.	Hip Breadth	.388		58. Hand Circumference	.206		90. Ear Length	.110	
27.	Chest Depth	.423		59. Hand Circumference at Thumb	.305		91. Ear Breadth	.079	
28.	Waist Depth	.370		60. Head Circumference	.229		92. Ear Protrusion	.005	
29.	Buttock Depth	.385		61. Sagittal Arc	.045		93. Subscapular Skinfold	.269	
30.	Hip Breadth-Sitting	.378		62. Bitragion-Coronal Arc	.096		94. Juxta Nipple Skinfold	.086	
31.	Neck Circumference	.457		63. Bitragion-Minimum Frontal Arc	.132		95. Back of Arm Skinfold	.371	
32.	Shoulder Circumference	.619		64. Bitragion-Subnasale Arc	.205		96. Mid/Axillary Line at Umbilicus Skin Fold		

No.	52. Foot Length	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		10.48	.47	9.1 - 12.0	9.6	10.5	11.5	0.1520	-0.2241
1.	Weight	.448							
2.	Stature	.661							
3.	Tragion Height	.657							
4.	Cervicale Height	.656							
5.	Suprasternale Height	.648							
6.	Nipple (Chest) Height	.598							
7.	Waist height	.615							
8.	Penale Height	.589							
9.	Gluteal Furrow Height	.596							
10.	Crotch Height	.592							
11.	Patella Height	.551							
12.	Sitting Height	.468							
13.	Eye Height Sitting	.424							
14.	Shoulder Height Sitting	.354							
15.	Elbow Rest Height	.073							
16.	Knee Height Sitting	.598							
17.	Popliteal Height Sitting	.595							
18.	Buttock-Popliteal Length	.451							
19.	Buttock-Knee Length	.543							
20.	Shoulder-Elbow Length	.470							
21.	Forearm-Hand Length	.712							
22.	Functional Reach	.554							
23.	Bideltoid Diameter	.220							
24.	Chest Breadth	.173							
25.	Waist Breadth	.253							
26.	Hip Breadth	.366							
27.	Chest Depth	.190							
28.	Waist Depth	.147							
29.	Buttock Depth	.148							
30.	Hip Breadth Sitting	.308							
31.	Neck Circumference	.167							
32.	Shoulder Circumference	.290							
33.	Chest Circumference	.223							
34.	Waist Circumference	.203							
35.	Buttock Circumference	.317							
36.	Buttock Circumference Sitting	.296							
37.	Thigh Circumference	.193							
38.	Lower Thigh Circumference	.190							
39.	Calf Circumference	.291							
40.	Ankle Circumference	.450							
41.	Scye Circumference	.233							
42.	Axillary Arm Circumference	.124							
43.	Biceps Circumference	.127							
44.	Lower Arm Circumference	.254							
45.	Wrist Circumference	.387							
46.	Sleeve Inseam	.497							
47.	Sleeve Length (Spine-Wrist)	.5							
48.	Gluteal Arc	.213							
49.	Vertical Trunk Circumference	.419							
50.	Interscye	.066							
51.	Interscye Maximum	.174							
52.	Foot Length	.181							
53.	Foot Breadth	.659							
54.	Hand Length	.392							
55.	Hand Breadth	.461							
56.	Hand Breadth at Thumb	.461							
57.	Thickness at Metacarpal III	.278							
58.	Hand Circumference	.376							
59.	Hand Circumference at Thumb	.423							
60.	Head Circumference	.233							
61.	Sagittal Arc	.239							
62.	Bitragion Coronal Arc	.227							
63.	Bitragion Minimum Frontal Arc	.128							
64.	Bitragion Subnasale Arc	.161							
	65. Bitragion-Menton Arc	.239							
	66. Bitragion-Submandibular Arc	.189							
	67. Bitragion-Inion Arc	.242							
	68. Head Length	.189							
	69. Tragion to Wall	.162							
	70. Nasal Root to Wall	.213							
	71. Pronasale to Wall	.267							
	72. External Canthus to Wall	.202							
	73. Head Breadth	.098							
	74. Bitragion Diameter	.150							
	75. Maximum Frontal Diameter	.070							
	76. Bizygomatic Diameter	.126							
	77. Bigonial Diameter	.164							
	78. Biocular Diameter	.092							
	79. Interpupillary Distance	.111							
	80. Interocular Diameter	.049							
	81. Nasal Root Breadth	.026							
	82. Nose Breadth	.070							
	83. Lip Length	.036							
	84. Menton-Subnasale Length	.154							
	85. Menton-Vertex Height	.215							
	86. Head Height (Tragion to Vertex)	.145							
	87. Lip-to-Lip Distance	.046							
	88. Nose Length	.171							
	89. Nose Protrusion	.095							
	90. Ear Length	.175							
	91. Ear Breadth	.135							
	92. Ear Protrusion	.022							
	93. Subscapular Skinfold	.030							
	94. Juxta-Nipple Skinfold	.007							
	95. Back of Arm Skinfold	.008							
	96. Mid/Axillary Line at Umbilious Skin Fold	.045							





No.	55. Hand Breadth	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		3.53	.17	3.0 - 4.1	3.2	3.5	3.9	0.0197	-0.0925
1. Weight	.396								
2. Stature	.396								
3. Tragion Height	.391								
4. Carivale Height	.396								
5. Suprasternale Height	.379								
6. Nipple (Chest) Height	.356								
7. Waist height	.327								
8. Penale Height	.280								
9. Gluteal Furrow Height	.318								
10. Crotch Height	.286								
11. Patella Height	.357								
12. Sitting Height	.358								
13. Eye Height Sitting	.343								
14. Shoulder Height Sitting	.356								
15. Elbow Rest Height	.113								
16. Knee Height Sitting	.451								
17. Popliteal Height Sitting	.283								
18. Buttock-Popliteal Length	.259								
19. Buttock-Knee Length	.362								
20. Shoulder-Elbow Length	.382								
21. Forearm-Hand Length	.458								
22. Functional Reach	.290								
23. Bideitoid Diameter	.338								
24. Chest Breadth	.259								
25. Waist Breadth	.266								
26. Hip Breadth	.297								
27. Chest Depth	.227								
28. Waist Depth	.171								
29. Buttock Depth	.210								
30. Hip Breadth-Sitting	.334								
31. Neck Circumference	.305								
32. Shoulder Circumference	.220								
33. Chest Circumference									
34. Waist Circumference									
35. Buttock Circumference									
36. Buttock Circumference Sitting									
37. Thigh Circumference									
38. Lower Thigh Circumference									
39. Calf Circumference									
40. Ankle Circumference									
41. Scye Circumference									
42. Axillary Arm Circumference									
43. Biceps Circumference									
44. Lower Arm Circumference									
45. Wrist Circumference									
46. Sleeve Inseam									
47. Sleeve Length (Spine-Wrist)									
48. Gluteal Arc									
49. Vertical Trunk Circumference									
50. Interscy									
51. Interscy Maximum									
52. Foot Length									
53. Foot Breadth									
54. Hand Length									
55. Hand Breadth									
56. Hand Circumference at Thumb									
57. Thickness at Metacarpal III									
58. Hand Circumference									
59. Hand Circumference at Thumb									
60. Head Circumference									
61. Sagittal Arc									
62. Bitragion-Coronal Arc									
63. Bitragion-Minimum Frontal Arc									
64. Bitragion-Subnasale Arc									
65. Bitragion-Menton Arc									
66. Bitragion-Submandibular Arc									
67. Bitragion-Union Arc									
68. Head Length									
69. Tragion to Wall									
70. Nasal Root to Wall									
71. Pronasale to Wall									
72. External Canthus to Wall									
73. Head Breadth									
74. Bitragion Diameter									
75. Maximum Frontal Diameter									
76. Bzygomatic Diameter									
77. Bicondylar Diameter									
78. Bicocular Diameter									
79. Interpupillary Distance									
80. Interocular Diameter									
81. Nasal Root Breadth									
82. Nose Breadth									
83. Lip Length									
84. Menton-Subnasale Length									
85. Menton-Vertex Height									
86. Head Height (Tragion to Vertex)									
87. Lip-to-Lip Distance									
88. Nose Length									
89. Nose Protrusion									
90. Ear Length									
91. Ear Breadth									
92. Ear Protrusion									
93. Subscapular Skinfold									
94. Juxta-Nipple Skinfold									
95. Back of Arm Skinfold									
96. Mid/Axillary Line at Umbilicus Skin Fold									

No. 56. Hand Breadth at Thumb

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	4.20	.19	3.5 - 4.8	3.8	4.2	4.6	- .0328	0.1955
1. Weight	.430		33. Chest Circumference	.252		55. Bitragion-Menton Arc	.326	
2. Stature	.453		34. Waist Circumference	.207		66. Bitragion-Submandibular Arc	.259	
3. Tragion Height	.447		35. Buttock Circumference	.302		67. Bitragion-Union Arc	.056	
4. Cervicale Height	.443		36. Buttock Circumference Siting	.307		68. Head Length	.229	
5. Suprasternale Height	.433		37. Thigh Circumference	.233		69. Tragion to Wall	.037	
6. Nipple (Chest) Height	.405		38. Lower Thigh Circumference	.280		70. Nasal Root to Wall	.208	
7. Waist height	.378		39. Calf Circumference	.382		71. Pronasale to Wall	.259	
8. Penale Height	.342		40. Ankle Circumference	.465		72. External Canthus to Wall	.217	
9. Gluteal Furrow Height	.368		41. Scye Circumference	.375		73. Head Breadth	.144	
10. Crotch Height	.326		42. Axillary Arm Circumference	.179		74. Bitragion Diameter	.220	
11. Patella Height	.382		43. Biceps Circumference	.322		75. Maximum Frontal Diameter	.075	
12. Sitting Height	.411		44. Lower Arm Circumference	.439		76. Bizygomatic Diameter	.083	
13. Eye Height Sitting	.401		45. Wrist Circumference	.567		77. Bigonial Diameter	.052	
14. Shoulder Height Sitting	.386		46. Sleeve Inseam	.297		78. Bicocular Diameter	.137	
15. Elbow Rest Height	.139		47. Sleeve Length (Spine-Wrist)	.380		79. Interpupillary Distance	.165	
16. Knee Height Sitting	.478		48. Gluteal Arc	.239		80. Interocular Diameter	.162	
17. Popliteal Height Sitting	.334		49. Vertical Trunk Circumference	.370		81. Nasal Root Breadth	.122	
18. Buttock-Popliteal Length	.268		50. Interscye	.178		82. Nose Breadth	.188	
19. Buttock-Knee Length	.390		51. Interscye Maximum	.211		83. Lip Length	.157	
20. Shoulder-Elbow Length	.402		52. Foot Length	.461		84. Menton-Subnasale Length	.180	
21. Forearm-Hand Length	.507		53. Foot Breadth:	.422		85. Menton-Vertex Height	.149	
22. Functional Reach	.338		54. Hand Length	.602		86. Head Height (Tragion to Vertex)	.171	
23. Bideltoid Diameter	.353		55. Hand Breadth	.742		87. Lip-to-Lip Distance	.108	
24. Chest Breadth	.254		56. Hand Breadth at Thumb			88. Nose Length	.156	
25. Waist Breadth	.265		57. Thickness at Metacarpal III			89. Nose Protrusion	.129	
26. Hip Breadth	.318		58. Hand Circumference			90. Ear Length	.149	
27. Chest Depth	.224		59. Hand Circumference at Thumb			91. Ear Breadth	.097	
28. Waist Depth	.162		60. Head Circumference			92. Ear Protrusion	.120	
29. Buttock Depth	.195		61. Sagittal Arc			93. Subscapular Skinfold	.006	
30. Hip Breadth Sitting	.340		62. Bitragion-Coronal Arc			94. Juxta-Nipple Skinfold	.005	
31. Neck Circumference	.335		63. Bitragion-Minimum Frontal Arc			95. Back of Arm Skinfold	-.039	
32. Shoulder Circumference	.270		64. Bitragion-Subnasale Arc			96. Mid/Axillary Line at Umbilicus Skin Fold	-.036	

## No. 57. Thickness at Metacarpal III

	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
1. Weight	.296							
2. Stature	.230	.08	.87 - 1.6	1.1	1.2	1.4	0.5310	1.0535
3. Tragion Height	.218							
4. Cervicale Height	.245							
5. Suprasternale Height	.210							
6. Nipple (Chest) Height	.172							
7. Waist Height	.177							
8. Penale Height	.161							
9. Gluteal Furrow Height	.171							
10. Crotch Height	.149							
11. Patella Height	.155							
12. Sitting Height	.226							
13. Eye Height Sitting	.183							
14. Shoulder Height Sitting	.191							
15. Elbow Rest Height	.069							
16. Knee Height Sitting	.197							
17. Popliteal Height Sitting	.212							
18. Buttock-Papiteal Length	.124							
19. Buttock-Knee Length	.178							
20. Shoulder-Elbow Length	.206							
21. Forearm-Hand Length	.273							
22. Functional Reach	.227							
23. Bideictid Diameter	.165							
24. Chest Breadth	.138							
25. Waist Breadth	.156							
26. Hip Breadth	.182							
27. Chest Depth	.218							
28. Waist Depth	.160							
29. Buttock Depth	.167							
30. Hip Breadth Sitting	.209							
31. Neck Circumference	.207							
32. Shoulder Circumference	.271							
33. Chest Circumference				.205				
34. Waist Circumference				.179				
35. Buttock Circumference				.199				
36. Buttock Circumference Sitting				.190				
37. Thigh Circumference				.164				
38. Lower Thigh Circumference				.130				
39. Calf Circumference				.194				
40. Ankle Circumference				.290				
41. Scye Circumference				.214				
42. Axillary Arm Circumference				.185				
43. Biceps Circumference				.179				
44. Lower Arm Circumference				.260				
45. Wrist Circumference				.339				
46. Sleeve Inseam				.105				
47. Sleeve Length (Spine-Wrist)				.243				
48. Gluteal Arc				.069				
49. Vertical Trunk Circumference				.278				
50. Interscye				.055				
51. Interscye Maximum				.117				
52. Foot Length				.278				
53. Foot Breadth				.084				
54. Hand Length				.307				
55. Hand Breadth				.315				
56. Hand Breadth at Thumb				.346				
57. Thickness at Metacarpal III				.89				
58. Hand Circumference				.392				
59. Hand Circumference at Thumb				.419				
60. Head Circumference				.185				
61. Sagittal Arc				.171				
62. Bifragion-Coronal Arc				.132				
63. Bifragion-Minimum Frontal Arc				.090				
64. Bifragion-Subnasale Arc				.151				
65. Bifragion-Menton Arc				.172				
66. Bifragion-Submandibular Arc				.115				
67. Bifragion-Inion Arc				.273				
68. Head Length				.120				
69. Tragion to Wall				.134				
70. Nasal Root to Wall				.145				
71. Pronasale to Wall				.149				
72. External Canthus to Wall				.138				
73. Head Breadth				.114				
74. Bifragion Diameter				.191				
75. Maximum Frontal Diameter				.027				
76. Bzygomatic Diameter				.116				
77. Bигонial Diameter				.210				
78. Biocular Diameter				.012				
79. Interpupillary Distance				.036				
80. Interocular Diameter				.030				
81. Nasal Root Breadth				-.069				
82. Nose Breadth				.135				
83. Lip Length				.014				
84. Menton-Subnasale Length				.128				
85. Menton-Vertex Height				.164				
86. Head Height (Tragion to Vertex)				.055				
87. Lip-to-Lip Distance				-.032				
88. Nose Length				.070				
89. Nose Protrusion				-.015				
90. Ear Length				.181				
91. Ear Breadth				.105				
92. Ear Protrusion				.010				
93. Subscapular Skinfold				.097				
94. Juxta-Nipple Skinfold				.070				
95. Back of Arm Skinfold				.062				
96. Mid/Axillary Line at Umbilicus Skin Fold				.053				

## No. 58. Hand Circumference

	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
	8.42	.40	6.8 - 9.8	7.6	8.4	9.2	-0.0529	0.0955

1. Weight .430  
 2. Stature .398  
 3. Tragion Height .391  
 4. Cervicale Height .387  
 5. Suprasternale Height .379  
 6. Nipple (Chest) Height .352  
 7. Waist height .318  
 8. Penale Height .267  
 9. Gluteal Furrow Height .323  
 10. Crotch Height .270  
 11. Patella Height .366  
 12. Sitting Height .361  
 13. Eye Height Sitting .363  
 14. Shoulder Height Sitting .378  
 15. Elbow Rest Height .103  
 16. Knee Height Sitting .476  
 17. Popliteal Height Sitting .254  
 18. Buttock-Popliteal Length .264  
 19. Buttock-Knee Length .370  
 20. Shoulder-Elbow Length .418  
 21. Forearm-Hand Length .450  
 22. Functional Reach .306  
 23. Bide'oid Diameter .378  
 24. Chest Breadth .315  
 25. Waist Breadth .301  
 26. Hip Breadth .319  
 27. Chest Depth .271  
 28. Waist Depth .186  
 29. Buttock Depth .245  
 30. Hip Breadth-Sitting .367  
 31. Neck Circumference .375  
 32. Shoulder Circumference .235
33. Chest Circumference .291  
 34. Waist Circumference .225  
 35. Buttock Circumference .299  
 36. Buttock Circumference Sitting .317  
 37. Thigh Circumference .232  
 38. Lower Thigh Circumference .330  
 39. Calf Circumference .381  
 40. Ankle Circumference .474  
 41. Scye Circumference .425  
 42. Axillary Arm Circumference .172  
 43. Biceps Circumference .351  
 44. Lower Arm Circumference .468  
 45. Wrist Circumference .600  
 46. Sleeve Inseam .285  
 47. Sleeve Length (Spine-Wrist) .343  
 48. Gluteal Arc .214  
 49. Vertical Trunk Circumference .342  
 50. Interscye .211  
 51. Interscye Maximum .206  
 52. Foot Length .376  
 53. Foot Breadth .504  
 54. Hand Length .568  
 55. Hand Breadth .852  
 56. Hand Breadth at Thumb .724  
 57. Thickness at Metacarpal III .392  
 58. Hand Circumference .227  
 59. Hand Circumference at Thumb .850  
 60. Head Circumference .117  
 61. Sagittal Arc .91  
 62. Bitragion-Coronal Arc .343  
 63. Bitragion-Minimum Frontal Arc .377
65. Bitragion-Menton Arc .353  
 66. Bitragion-Submandibular Arc .285  
 67. Bitragion-Inion Arc .004  
 68. Head Length .220  
 69. Tragion to Wall -.048  
 70. Nasal Root to Wall .182  
 71. Pronasale to Wall .269  
 72. External Canthus to Wall .200  
 73. Head Breadth .201  
 74. Bitragion Diameter .274  
 75. Maximum Frontal Diameter .098  
 76. Bzygomatic Diameter .102  
 77. Bigonial Diameter .015  
 78. Biocular Diameter .134  
 79. Interpupillary Distance .244  
 80. Interocular Diameter .253  
 81. Nasal Root Breadth .224  
 82. Nose Breadth .234  
 83. Lip Length .274  
 84. Menton-Subnasale Length .214  
 85. Menton-Vertex Height .143  
 86. Head Height (Tragion to Vertex) .196  
 87. Lip-to-Lip Distance .094  
 88. Nose Length .226  
 89. Nose Protrusion .221  
 90. Ear Length .164  
 91. Ear Breadth .169  
 92. Ear Protrusion .161  
 93. Subscapular Skinfold .017  
 94. Juxta-Nipple Skinfold .029  
 95. Back of Arm Skinfold .053  
 96. Mid/Axillary Line at Umbilicus Skin Fold -.085

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
No. 59. Hand Circumference at Thumb	10.03	.44	8.7 - 11.5	9.1	10.0	11.0	0.0827	-0.1095
1. Weight	.513		33. Chest Circumference	.366	65. Bitragion-Menton Arc	.383		
2. Stature	.436		34. Waist Circumference	.287	66. Bitragion-Submandibular Arc	.348		
3. Tragion Height	.436		35. Buttock Circumference	.380	67. Bitragion-Inion Arc	.068		
4. Cervical Height	.410		36. Buttock Circumference Sitting	.383	68. Head Length	.255		
5. Suprasternale Height	.430		37. Thigh Circumference	.294	69. Tragion to Wall	.050		
6. Nipple (Chest) Height	.390		38. Lower Thigh Circumference	.397	70. Nasal Root to Wall	.247		
7. Waist Height	.359		39. Calf Circumference	.435	71. Pronasale to Wall	.299		
8. Perineal Height	.314		40. Ankle Circumference	.509	72. External Canthus to Wall	.239		
9. Gluteal Furrow Height	.341		41. Scye Circumference	.451	73. Head Breadth	.190		
10. Crotch Height	.320		42. Axillary Arm Circumference	.295	74. Bitragion Diameter	.260		
11. Patella Height	.391		43. Biceps Circumference	.414	75. Maximum Frontal Diameter	.160		
12. Sitting Height	.378		44. Lower Arm Circumference	.552	76. Bizygomatic Diameter	.189		
13. Eye Height Sitting	.387		45. Wrist Circumference	.649	77. Bigonial Diameter	.093		
14. Shoulder Height Sitting	.354		46. Sleeve Inseam	.289	78. Biocular Diameter	.183		
15. Elbow Rest Height	.128		47. Sleeve Length (Spine-Wrist)	.424	79. Interpupillary Distance	.211		
16. Knee Height Sitting	.452		48. Gluteal Arc	.228	80. Interocular Diameter	.167		
17. Popliteal Height Sitting	.292		49. Vertical Trunk Circumference	.437	81. Nasal Root Breadth	.224		
18. Buttock-Pooliteal Length	.262		50. Interseye	.293	82. Nose Breadth	.224		
19. Buttock-Knee Length	.375		51. Interscye Maximum	.305	83. Lip Length	.241		
20. Shoulder-Elbow Length	.345		52. Foot Length	.423	84. Menton-Subnasale Length	.187		
21. Forearm-Hand Length	.467		53. Foot Breadth	.446	85. Menton-Vertex Height	.165		
22. Functional Reach	.394		54. Hand Length	.520	86. Head Height (Tragion to Vertex)	.123		
23. Bideftoid Diameter	.419		55. Hand Breadth	.755	87. Lip-to-Lip Distance	.078		
24. Chest Breadth	.342		56. Hand Breadth at Thumb	.740	88. Nose Length	.195		
25. Waist Breadth	.330		57. Thickness at Metacarpal III	.419	89. Nose Protrusion	.214		
26. Hip Breadth	.379		58. Hand Circumference	.850	90. Ear Length	.183		
27. Chest Depth	.315		59. Hand Circumference at Thumb		91. Ear Breadth	.179		
28. Waist Depth	.243		60. Head Circumference	.268	92. Ear Protrusion	.117		
29. Buttock Depth	.278		61. Sagittal Arc		93. Subscapular Skinfold	.046		
30. Hip Breadth-Sitting	.360		62. Bitragion-Coronal Arc		94. Juxta-Nipple Skinfold	.046		
31. Neck Circumference	.418		63. Bitragion-Minimum Frontal Arc		95. Back of Arm Skinfold	-.041		
32. Shoulder Circumference	.351		64. Bitragion-Subnasale Arc		96. Mid/Axillary Line at Umbilicus Skin Fold	.040		

No.	60. Head Circumference	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		22.65	.55	21.0 - 24.6	21.5	22.7	23.9	0.0291	0.0844
1.	Weight	.399		33. Chest Circumference	.330	65. Bitragion-Menton Arc	.345		
2.	Stature	.237		34. Waist Circumference	.292	66. Eitragion-Submandibular Arc	.305		
3.	Tragion Height	.209		35. Buttock Circumference	.301	67. Bitragion-Inion Arc	.298		
4.	Cervical Height	.211		36. Buttock Circumference Sitting	.299	68. Head Length	.748		
5.	Suprasternale Height	.230		37. Thigh Circumference	.259	69. Tragion to Wall	.406		
6.	Nipple (Chest) Height	.200		38. Lower Thigh Circumference	.248	70. Nasal Root to Wall	.682		
7.	Waist height	.178		39. Calf Circumference	.265	71. Pronasale to Wall	.584		
8.	Penale Height	.165		40. Ankle Circumference	.272	72. External Canthus to Wall	.604		
9.	Gluteal Furrow Height	.153		41. Scye Circumference	.263	73. Head Breadth	.449		
10.	Crotch Height	.132		42. Axillary Arm Circumference	.272	74. Bitragion Diameter	.335		
11.	Patella Height	.192		43. Biceps Circumference	.272	75. Maximum Frontal Diameter	.186		
12.	Sitting Height	.209		44. Lower Arm Circumference	.316	76. Bizygomatic Diameter	.269		
13.	Eye Height Sitting	.167		45. Wrist Circumference	.263	77. Bignonial Diameter	.262		
14.	Shoulder Height Sitting	.141		46. Sleeve Inseam	.090	78. Biocular Diameter	.310		
15.	Elbow Rest Height	.083		47. Sleeve Length (Spine-Wrist)	.259	79. Interpuillary Distance	.275		
16.	Knee Height Sitting	.200		48. Gluteal Arc	.096	80. Intercocular Diameter	.180		
17.	Popliteal Height Sitting	.139		49. Vertical Trunk Circumference	.312	81. Nasal Root Breadth	.112		
18.	Buttock-Popliteal Length	.141		50. Interscye	.177	82. Nose Breadth	.215		
19.	Buttock-Knee Length	.202		51. Interscye Maximum	.229	83. Lip Length	.110		
20.	Shoulder-Elbow Length	.117		52. Foot Length	.233	84. Menton-Subnasale Length	.156		
21.	Forearm-Hand Length	.213		53. Foot Breadth	.100	85. Menton-Vertex Height	.362		
22.	Functional Reach	.166		54. Hand Length	.181	86. Head Height (Tragion to Vertex)	.343		
23.	Bideltoid Diameter	.302		55. Hand Breadth	.206	87. Lip-to-Lip Distance	.011		
24.	Chest Breadth	.269		56. Hand Breadth at Thumb	.222	88. Nose Length	.103		
25.	Waist Breadth	.296		57. Thickness at Metacarpal II	.185	89. Nose Protrusion	.101		
26.	Hip Breadth	.261		58. Hand Circumference	.227	90. Ear Length	.139		
27.	Chest Depth	.271		59. Hand Circumference at Thumb	.268	91. Ear Breadth	.115		
28.	Waist Depth	.230		60. Head Circumference	.92	92. Ear Protrusion	.045		
29.	Buttock Depth	.247		61. Sagittal Arc	.460	93. Subscapular Skinfold	.179		
30.	Hip Breadth-Sitting	.266		62. Bitragion-Coronal Arc	.493	94. Juxta-Nipple Skinfold	.119		
31.	Neck Circumference	.321		63. Bitragion-Minimum Frontal Arc	.502	95. Back of Arm Skinfold	.105		
32.	Shoulder Circumference	.328		64. Bitragion-Subnasale Arc	.355	96. Mid/Axillary Line at Umbilicus Skin Fold	.138		

No.	61. Sagittal Arc	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		14.53	.86	11.9 - 16.9	12.7	14.6	16.1	-0.3660	-0.2248
1. Weight	.112								
2. Stature	.140								
3. Tragion Height	.115								
4. Cervicale Height	.107								
5. Suprasternale Height	.105								
6. Nipple (Chest) Height	.071								
7. Waist height	.116								
8. Penale Height	.121								
9. Gluteal Furrow Height	.049								
10. Crotch Height	.096								
11. Patella Height	.009								
12. Sitting Height	.157								
13. Eye Height Sitting	.038								
14. Shoulder Height Sitting	-.052								
15. Elbow Rest Height	.073								
16. Knee Height Sitting	-.045								
17. Popliteal Height Sitting	.154								
18. Buttock-Popliteal Length	.002								
19. Buttock-Knee Length	-.026								
20. Shoulder-Elbow Length	-.114								
21. Forearm-Hand Length	.127								
22. Functional Reach	.117								
23. Bicipital Diameter	-.058								
24. Chest Breadth	.013								
25. Waist Breadth	.016								
26. Hip Breadth	.042								
27. Chest Depth	.009								
28. Waist Depth	.035								
29. Buttock Depth	-.014								
30. Hip Breadth-Sitting	.013								
31. Neck Circumference	-.026								
32. Shoulder Circumference	.186								
33. Chest Circumference					.042				.057
34. Waist Circumference					.045				.027
35. Buttock Circumference					.061				.486
36. Buttock Circumference Sitting					.008				.340
37. Thigh Circumference					.047				.382
38. Lower Thigh Circumference					-.029				.361
39. Calf Circumference					.028				.231
40. Ankle Circumference					.067				.289
41. Scye Circumference					-.062				-.003
42. Axillary Arm Circumference					.073				-.079
43. Biceps Circumference					-.034				-.034
44. Lower Arm Circumference					.012				.107
45. Wrist Circumference					.015				.436
46. Sleeve Inseam					-.005				.028
47. Sleeve Length (Spine-Wrist)					.140				-.023
48. Gluteal Arc					.005				-.074
49. Vertical Trunk Circumference					.142				-.185
50. Intercye					-.075				.019
51. Intercye Maximum					.045				-.245
52. Foot Length					.239				.061
53. Foot Breadth					-.266				.346
54. Hand Length					.028				.205
55. Hand Breadth					-.049				-.083
56. Hand Breadth at Thumb					-.007				-.097
57. Thickness at Metacarpal III					.171				-.121
58. Hand Circumference					-.117				.030
59. Hand Circumference at Thumb					-.029				-.041
60. Head Circumference					.460				.094
61. Sagittal Arc					.171				.051
62. Bitragion-Coronal Arc					.471				-.013
63. Bitragion-Minimum Frontal Arc					-.020				.069
64. Bitragion-Subnasale Arc					-.063				.148





No.	84. Bitragion-Subnasale Arc	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		11.29	.42	9.3 - 12.6	10.4	11.3	12.2	0.0231	0.3787
<b>1. Weight</b>	.407	33. Chest Circumference	.340						
<b>2. Stature</b>	.217	34. Waist Circumference	.281						
<b>3. Tragion Height</b>	.216	35. Buttock Circumference	.323						
<b>4. Cervicale Height</b>	.226	36. Buttock Circumference Sitting	.341						
<b>5. Suprasternale Height</b>	.228	37. Thigh Circumference	.290						
<b>6. Nipple (Chest) Height</b>	.215	38. Lower Thigh Circumference	.315						
<b>7. Waist height</b>	.165	39. Calf Circumference	.328						
<b>8. Penale Height</b>	.123	40. Ankle Circumference	.299						
<b>9. Gluteal Furrow Height</b>	.175	41. Scye Circumference	.384						
<b>10. Crotch Height</b>	.113	42. Axillary Arm Circumference	.242						
<b>11. Patella Height</b>	.215	43. Biceps Circumference	.343						
<b>12. Sitting Height</b>	.192	44. Lower Arm Circumference	.351						
<b>13. Eye Height Sitting</b>	.206	45. Wrist Circumference	.348						
<b>14. Shoulder Height Sitting</b>	.250	46. Sleeve Inseam	.150						
<b>15. Elbow Rest Height</b>	.077	47. Sleeve Length (Spine-Wrist)	.229						
<b>16. Knee Height Sitting</b>	.297	48. Gluteal Arc	.133						
<b>17. Popliteal Height Sitting</b>	.106	49. Vertical Trunk Circumference	.278						
<b>18. Buttock-Popliteal Length</b>	.180	50. Interscye	.234						
<b>19. Buttock-Knee Length</b>	.265	51. Interscye Maximum	.161						
<b>20. Shoulder-Elbow Length</b>	.276	52. Foot Length	.205						
<b>21. Forearm-Hand Length</b>	.216	53. Foot Breadth	.338						
<b>22. Functional Reach</b>	.128	54. Hand Length	.279						
<b>23. Biddeltoid Diameter</b>	.405	55. Hand Breadth	.324						
<b>24. Chest Breadth</b>	.348	56. Hand Breadth at Thumb	.321						
<b>25. Waist Breadth</b>	.333	57. Thickness at Metacarpal III	.151						
<b>26. Hip Breadth</b>	.298	58. Hand Circumference	.377						
<b>27. Chest Depth</b>	.283	59. Hand Circumference at Thumb	.345						
<b>28. Waist Depth</b>	.232	60. Head Circumference	.355						
<b>29. Buttock Depth</b>	.299	61. Sagittal Arc	-.063						
<b>30. Hip Breadth-Sitting</b>	.372	62. Bitragion-Coronal Arc	.071						
<b>31. Neck Circumference</b>	.417	63. Bitragion-Minimum Frontal Arc	.645						
<b>32. Shoulder Circumference</b>	.269	64. Bitragion-Subnasale Arc	.070						
		65. Bitragion-Menton Arc	.720						
		66. Bitragion-Submandibular Arc	.601						
		67. Bitragion-Inion Arc	-.052						
		68. Head Length	.363						
		69. Tragion to Wall	-.119						
		70. Nasal Root to Wall	.322						
		71. Pronasale to Wall	.424						
		72. External Canthus to Wall	.283						
		73. Head Breadth	.240						
		74. Bitragion Diameter	.464						
		75. Maximum Frontal Diameter	.272						
		76. Bizygomatic Diameter	.304						
		77. Bigonial Diameter	.142						
		78. Bicocular Diameter	.376						
		79. Interpupillary Distance	.386						
		80. Interocular Diameter	.365						
		81. Nasal Root Breadth	.268						
		82. Nose Breadth	.343						
		83. Lip Length	.400						
		84. Menton-Subnasale Length	.125						
		85. Menton-Vertex Height	.108						
		86. Head Height (Tragion to Vertex)	.121						
		87. Lip-to-Lip Distance	.090						
		88. Nose Length	.223						
		89. Nose Protrusion	.162						
		90. Ear Length	.197						
		91. Ear Breadth	.142						
		92. Ear Protrusion	.102						
		93. Subscapular Skinfold	.165						
		94. Juxta-Nipple Skinfold	.145						
		95. Back of Arm Skinfold	.076						
		96. Mid/Axillary Line at Umbilicus Skin Fold	.070						

No.	65. Bitragion-Menton Arc	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		12.68	.50	10.3 - 14.5	11.6	12.7	13.7	-0.0693	0.4678
1. Weight	.481								
2. Stature	.313								
3. Tragion Height	.319								
4. Cervicale Height	.307								
5. Suprasternale Height	.320								
6. Nipple (Chest) Height	.291								
7. Waist height	.260								
8. Penale Height	.217								
9. Gluteal Furrow Height	.240								
10. Crotch Height	.207								
11. Patella Height	.285								
12. Sitting Height	.257								
13. Eye Height Sitting	.277								
14. Shoulder Height Sitting	.251								
15. Elbow Rest Height	.066								
16. Knee Height Sitting	.329								
17. Popliteal Height Sitting	.177								
18. Buttock-Popliteal Length	.257								
19. Buttock-Knee Length	.330								
20. Shoulder-Elbow Length	.287								
21. Forearm-Hand Length	.298								
22. Functional Reach	.250								
23. Bideltoid Diameter*	.443								
24. Chest Breadth	.367								
25. Waist Breadth	.359								
26. Hip Breadth	.356								
27. Chest Depth	.324								
28. Waist Depth	.263								
29. Buttock Depth	.312								
30. Hip Breadth-Sitting	.362								
31. Neck Circumference	.453								
32. Shoulders Circumference	.373								
33. Chest Circumference					.397				
34. Waist Circumference					.315				
35. Buttock Circumference					.384				
36. Buttock Circumference Sitting					.398				
37. Thigh Circumference					.313				
38. Lower Thigh Circumference					.345				
39. Calf Circumference					.365				
40. Ankle Circumference					.339				
41. Scye Circumference					.429				
42. Axillary Arm Circumference					.337				
43. Biceps Circumference					.375				
44. Lower Arm Circumference					.405				
45. Wrist Circumference					.402				
46. Sleeve Inseam					.219				
47. Sleeve Length (Spine-Wrist)					.339				
48. Gluteal Arc					.188				
49. Vertical Trunk Circumference					.376				
50. Interscye					.300				
51. Interscye Maximum					.297				
52. Foot Length					.239				
53. Foot Breadth					.265				
54. Hand Length					.273				
55. Hand Breadth					.317				
56. Hand Breadth at Thumb					.326				
57. Thickness at Metacarpal III					.172				
58. Hand Circumference					.353				
59. Hand Circumference at Thumb					.383				
60. Head Circumference					.345				
61. Sagittal Arc					.057				
62. Bitragion-Coronal Arc					.098				
63. Bitragion-Minimum Frontal Arc					.449				
64. Bitragion-Subnasale Arc					.720				



No.	Measure	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
67.	Bitragion-Inion Arc	12.38	.82	10.2 - 15.4	11.0	12.3	14.1	0.4159	-0.3076
1.	Weight	.188		33. Chest Circumference	.119	65. Bitragion-Menton Arc	.024		
2.	Stature	.130		34. Waist Circumference	.135	66. Bitragion-Submandibular Arc	-.115		
3.	Tragion Height	.116		35. Buttock Circumference	.113	67. Bitragion-Inion Arc	.191		
4.	Cervicale Height	.139		36. Buttock Circumference Sitting	.073	68. Head Length			
5.	Supraesternal Height	.111		37. Thigh Circumference	.105	69. Tragion to Wall	.377		
6.	Nipple (Chest) Height	.072		38. Lower Thigh Circumference	-.012	70. Nasal Root to Wall	.222		
7.	Waist height	.086		39. Calf Circumference	.081	71. Pronasale to Wall	.177		
8.	Penile Height	.088		40. Ankle Circumference	.110	72. External Canthus to Wall	.203		
9.	Gluteal Furrow Height	.067		41. Scye Circumference	-.006	73. Head Breadth	.063		
10.	Crotch Height	.064		42. Axillary Arm Circumference	.114	74. Bitragion Diameter	.092		
11.	Patella Height	.006		43. Biceps Circumference	.000	75. Maximum Frontal Diameter	.131		
12.	Sitting Height	.195		44. Lower Arm Circumference	.032	76. Bzygoauricular Diameter	.023		
13.	Eye Height Sitting	.089		45. Wrist Circumference	.051	77. Bicondylar Diameter	.504		
14.	Shoulder Height Sitting	.055		46. Sleeve Inseam	-.006	78. Biocular Diameter	-.054		
15.	Elbow Rest Height	.150		47. Sleeve Length (Spine-Wrist)	.159	79. Interpupillary Distance	-.081		
16.	Knee Height Sitting	-.054		48. Gluteal Arc	-.025	80. Interocular Diameter	-.078		
17.	Popliteal Height Sitting	.180		49. Vertical Trunk Circumference	.190	81. Nasal Root Breadth	-.267		
18.	Buttock-Popliteal Length	.028		50. Interscye	-.087	82. Nose Breadth	.076		
19.	Buttock-Knee Length	.033		51. Interscye Maximum	.075	83. Lip Length	-.205		
20.	Shoulder-Elbow Length	-.027		52. Foot Length	.242	84. Menton-Subnasale Length	.117		
21.	Forearm-Hand Length	.157		53. Foot Breadth	-.204	85. Menton-Vertex Height	.210		
22.	Functional Reach	.126		54. Hand Length	.094	86. Head Height (Tragion to Vertex)	.070		
23.	Bideltoid Diameter	.044		55. Hand Breadth	.046	87. Lip-to-Lip Distance	-.117		
24.	Chest Breadth	.053		56. Hand Breadth at Thumb	.056	88. Nose Length	-.042		
25.	Waist Breadth	.083		57. Thickness at Metacarpal III	.273	89. Nose Protrusion	-.138		
26.	Hip Breadth	.125		58. Hand Circumference	-.004	90. Ear Length	.128		
27.	Chest Depth	.122		59. Hand Circumference at Thumb	.068	91. Ear Breadth	.023		
28.	Waist Depth	.147		60. Head Circumference	.298	92. Ear Protrusion	.006		
29.	Buttock Depth	.100		61. Sagittal Arc	.486	93. Subscapular Skinfold	.138		
30.	Hip Breadth-Sitting	.115		62. Bitragion-Coronal Arc	.284	94. Juxta-Nipple Skinfold	.093		
31.	Neck Circumference	.067		63. Bitragion-Minimum Frontal Arc	-.068	95. Back of Arm Skinfold	.129		
32.	Shoulder Circumference	.270		64. Bitragion-Subnasale Arc	-.052	96. Mid/Axillary Line at Umbilicus Skin Fold	.140		

No.	68. Head Length	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
7.81	.26	7.0 - 8.7	7.3	7.8	8.4	0.0896	-0.0280		
1. Weight	.280	33. Chest Circumference	.222	65. Bitragion-Menton Arc	.349				
2. Stature	.219	34. Waist Circumference	.174	66. Bitragion-Submandibular Arc	.281				
3. Tragion Height	.202	35. Buttock Circumference	.183	67. Bitragion-Inion Arc	.191				
4. Cervicale Height	.198	36. Buttock Circumference Siting	.203	68. Head Length					
5. Suprasternale Height	.214	37. Thigh Circumference	.148	69. Tragion to Wall	.467				
6. Nipple (Chest) Height	.196	38. Lower Thigh Circumference	.175	70. Nasal Root to Wall	.845				
7. Waist height	.180	39. Calf Circumference	.192	71. Pronasale to Wall	.737				
8. Penale Height	.173	40. Ankle Circumference	.211	72. External Canthus to Wall	.728				
9. Gluteal Furrow Height	.155	41. Scye Circumference	.206	73. Head Breadth	.057				
10. Crotch Height	.136	42. Axillary Arm Circumference	.161	74. Bitragion Diameter	.112				
11. Patella Height	.193	43. Biceps Circumference	.194	75. Maximum Frontal Diameter	.011				
12. Sitting Height	.189	44. Lower Arm Circumference	.241	76. Bizygomatic Diameter	.088				
13. Eye Height Sitting	.168	45. Wrist Circumference	.234	77. Biconial Diameter	.069				
14. Shoulder Height Sitting	.143	46. Sleeve Inseam	.117	78. Biocular Diameter	.247				
15. Elbow Rest Height	.047	47. Sleeve Length (Spine-Wrist)	.215	79. Interpubillary Distance	.218				
16. Knee Height Sitting	.205	48. Gluteal Arc	.089	80. Interocular Diameter	.169				
17. Popliteal Height Sitting	.135	49. Vertical Trunk Circumference	.231	81. Nasal Root Breadth	.147				
18. Buttock-Popliteal Length	.129	50. Interscye	.168	82. Nose Breadth	.189				
19. Buttock-Knee Length	.187	51. Interscye Maximum	.165	83. Lip Length	.150				
20. Shoulder-Elbow Length	.145	52. Foot Length	.189	84. Menton-Subnasale Length	.179				
21. Forearm-Hand Length	.206	53. Foot Breadth	.126	85. Menton-Vertex Height	.314				
22. Functional Reach	.146	54. Hand Length	.190	86. Head Height (Tragion to Vertex)	.239				
23. Biddeltoid Diameter	.254	55. Hand Breadth	.221	87. Lip-to-Lip Distance	.059				
24. Chest Breadth	.211	56. Hand Breadth at Thumb	.229	88. Nose Length	.095				
25. Waist Breadth	.198	57. Thickness at Metacarpal III	.120	89. Nose Protrusion	.123				
26. Hip Breadth	.162	58. Hand Circumference	.220	90. Ear Length	.153				
27. Chest Depth	.178	59. Hand Circumference at Thumb	.255	91. Ear Breadth	.105				
28. Waist Depth	.125	60. Head Circumference	.748	92. Ear Protrusion	.053				
29. Buttock Depth	.157	61. Sagital Arc	.340	93. Subscapular Skinfold	.091				
30. Hip Breadth-Sitting	.181	62. Bitragion-Coronal Arc	.224	94. Juxta-Nipple Skinfold	.043				
31. Neck Circumference	.242	63. Bitragion-Minimum Frontal Arc	.425	95. Back of Arm Skinfold	.021				
32. Shoulder Circumference	.221	64. Bitragion-Subnasale Arc	.363	96. Mid-Axillary Line at Umbilicus Skin Fold	.038				



Yo.	70. Nasal Root to Wall	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		7.89	.27	6.9 - 9.3	7.4	7.9	8.5	0.2547	1.0116
1.	Weight	.283		33. Chest Circumference	.222	55. Bitragion-Menton Arc	.329		
2.	Stature	.232		34. Waist Circumference	.176	66. Bitragion-Submandibular Arc	.267		
3.	Tragion Height	.214		35. Buttock Circumference	.191	67. Bitragion-Inion Arc	.222		
4.	Cervicale Height	.207		36. Buttock Circumference Sitting	.200	68. Head Length	.845		
5.	Suprasternale Height	.225		37. Thigh Circumference	.143	69. Tragion to Wall	.564		
6.	Nipple (Chest) Height	.193		38. Lower Thigh Circumference	.167	70. Nasal Root to Wall			
7.	Waist height	.189		39. Calf Circumference	.181	71. Pronasale to Wall	.824		
8.	Penale Height	.182		40. Ankle Circumference	.204	72. External Canthus to Wall	.818		
9.	Gluteal Furrow Height	.160		41. Scye Circumference	.189	73. Head Breadth	.026		
10.	Crotch Height	.156		42. Axillary Arm Circumference	.185	74. Bitragion Diameter	.066		
11.	Patella Height	.192		43. Biceps Circumference	.191	75. Maximum Frontal Diameter	.064		
12.	Sitting Height	.209		44. Lower Arm Circumference	.254	76. Bizygomatic Diameter	.069		
13.	Eye Height Sitting	.163		45. Wrist Circumference	.233	77. Bigonial Diameter	.123		
14.	Shoulder Height Sitting	.120		46. Sleeve Inseam	.120	78. Bicocular Diameter	.209		
15.	Elbow Rest Height	.073		47. Sleeve Length (Spine-Wrist)	.220	79. Interpupillary Distance	.155		
16.	Knee Height Sitting	.179		48. Gluteal Arc	.089	80. Interocular Diameter	.087		
17.	Popliteal Height Sitting	.158		49. Vertical Trunk Circumference	.241	81. Nasal Root Breadth	.088		
18.	Buttock-Popliteal Length	.117		50. Interscye	.160	82. Nose Breadth	.181		
19.	Buttock-Knee Length	.176		51. Interscye Maximum	.187	83. Lip Length	.127		
20.	Shoulder-Elbow Length	.092		52. Foot Length	.213	84. Menton-Subnasale Length	.182		
21.	Forearm-Hand Length	.210		53. Foot Breadth	.077	85. Menton-Vertex Height	.332		
22.	Functional Reach	.186		54. Hand Length	.172	86. Head Height (Tragion to Vertex)	.238		
23.	Bideltoid Diameter	.220		55. Hand Breadth	.175	87. Lip-to-Lip Distance	.071		
24.	Chest Breadth	.203		56. Hand Breadth at Thumb	.208	88. Nose Length	.128		
25.	Waist Breadth	.186		57. Thickness at Metacarpal III	.145	89. Nose Protrusion	.097		
26.	Hip Breadth	.178		58. Hand Circumference	.182	90. Ear Length	.176		
27.	Chest Depth	.172		59. Hand Circumference at Thumb	.247	91. Ear Breadth	.116		
28.	Waist Depth	.131		60. Head Circumference	.682	92. Ear Protrusion	.013		
29.	Buttock Depth	.147		61. Sagittal Arc	.361	93. Subscapular Skinfold	.072		
30.	Hip Breadth-Sitting	.170		62. Bitragion-Coronal Arc	.241	94. Juxta-Nipple Skinfold	.044		
31.	Neck Circumference	.229		63. Bitragion-Minimum Frontal Arc	.343	95. Back of Arm Skinfold	.028		
32.	Shoulder Circumference	.237		64. Bitragion-Subnasale Arc	.322	96. Mid/Axillary Line at Umbilicus Skin Fold	.076		

No.	71. Pronasale to Wall	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		8.99	.30	7.6 - 10.2	8.4	9.0	9.6	-0.0200	0.8119
1.	Weight	.333		33.	Chest Circumference	.261	65. Bitragion-Menton Arc	.405	
2.	Stature	.308		34.	Waist Circumference	.211	66. Bitragion-Submandibular Arc	.329	
3.	Tragion Height	.297		35.	Buttock Circumference	.219	67. Bitragion-Inion Arc	.177	
4.	Cervicale Height	.301		36.	Buttock Circumference Sitting	.246	68. Head Length	.737	
5.	Suprasternale Height	.302		37.	Thigh Circumference	.161	69. Tragion to Wall	.530	
6.	Nipple (Chest) Height	.279		38.	Lower Thigh Circumference	.191	70. Nasal Root to Wall	.824	
7.	Waist height	.273		39.	Calf Circumference	.217	71. Pronasale to Wall	.776	
8.	Penale Height	.251		40.	Ankle Circumference	.236	72. External Canthus to Wall	.031	
9.	Gluteal Furrow Height	.256		41.	Scye Circumference	.256	73. Head Breadth	.031	
10.	Crotch Height	.245		42.	Axillary Arm Circumference	.168	74. Bitragion Diameter	.126	
11.	Patella Height	.291		43.	Biceps Circumference	.216	75. Maximum Frontal Diameter	.076	
12.	Sitting Height	.233		44.	Lower Arm Circumference	.271	76. Bzygomatic Diameter	.077	
13.	Eye Height Sitting	.210		45.	Wrist Circumference	.288	77. Bигонial Diameter	.068	
14.	Shoulder Height Sitting	.188		46.	Sleeve Inseam	.212	78. Bиocular Diameter	.216	
15.	Elbow Rest Height	.054		47.	Sleeve Length (Spine-Wrist)	.284	79. Interpupillary Distance	.206	
16.	Knee Height Sitting	.305		48.	Gluetral Arc	.124	80. Interocular Diameter	.113	
17.	Popliteal Height Sitting	.220		49.	Vertical Trunk Circumference	.274	81. Nasal Root Breadth	.130	
18.	Buttock-Popliteal Length	.210		50.	Interscye	.182	82. Nose Breadth	.229	
19.	Buttock-Knee Length	.278		51.	Interscye Maximum	.176	83. Lip Length	.207	
20.	Shoulder-Elbow Length	.225		52.	Foot Length	.267	84. Menton-Subnasale Length	.208	
21.	F grearm-Hand Length	.287		53.	Foot Breadth	.151	85. Menton-Vertex Height	.128	
22.	Functional Reach	.236		54.	Hand Length	.271	86. Head Height (Tragion to Vertex)	.169	
23.	Bideltoid Diameter	.262		55.	Hand Breadth	.239	87. Lip-to-Lip Distance	.083	
24.	Chest Breadth	.225		56.	Hand Breadth at Thumb	.259	88. Nose Length	.302	
25.	Waist Breadth	.237		57.	Thickness at Metacarpal III	.149	89. Nose Protrusion	.247	
26.	Hip Breadth	.224		58.	Hand Circumference	.269	90. Ear Length	.229	
27.	Chest Depth	.248		59.	Hand Circumference at Thumb	.299	91. Ear Breadth	.172	
28.	Waist Depth	.166		60.	Head Circumference	.584	92. Ear Protrusion	.069	
29.	Buttock Dept	.167		61.	Sagittal Arc	.231	93. Subscapular Skinfold	.060	
30.	Hip Breadth Sitting	.225		62.	Bitragion-Coronal Arc	.175	94. Juxta-Nipple Skinfold	.056	
31.	Neck Circumference	.274		63.	Bitragion-Minimum Frontal Arc	.341	95. Back of Arm Skinfold	.010	
32.	Shoulder Circumference	.225		64.	Bitragion-Subnasale Arc	.424	96. Mid Axillary Line at Umbilicus Skin Fold	.026	

No.		Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
72.	External Canthus to Wall	7.00	.28	5.5 - 8.2	6.4	7.0	7.6	-0.1051	1.7023
1.	Weight	.275							
2.	Stature	.219							
3.	Tragion Height	.202							
4.	Cervicale Height	.209							
5.	Suprasternal Height	.215							
6.	Nipple (Chest) Height	.188							
7.	Waist height	.182							
8.	Penale Height	.168							
9.	Gluteal Furrow Height	.169							
10.	Crotch Height	.137							
11.	Patella Height	.188							
12.	Sitting Height	.187							
13.	Eye Height Sitting	.152							
14.	Shoulder Height Sitting	.138							
15.	Elbow Rest Height	.069							
16.	Knee Height Sitting	.196							
17.	Popliteal Height Sitting	.145							
18.	Buttock-Popliteal Length	.133							
19.	Buttock-Knee Length	.186							
20.	Shoulder-Elbow Length	.129							
21.	Forearm-Hand Length	.196							
22.	Functional Reach	.143							
23.	Bideltoid Diameter	.207							
24.	Chest Breadth	.187							
25.	Waist Breadth	.190							
26.	Hip Breadth	.173							
27.	Chest Depth	.212							
28.	Waist Depth	.154							
29.	Buttock Depth	.151							
30.	Hip Breadth Sitting	.183							
31.	Neck Circumference	.209							
32.	Shoulder Circumference	.205							
33.	Chest Circumference				.223				.299
34.	Waist Circumference				.192				.246
35.	Buttock Circumference				.179				.203
36.	Buttock Circumference Sitting				.198				.728
37.	Thigh Circumference				.147				.685
38.	Lower Thigh Circumference				.156				.818
39.	Calf Circumference				.176				.776
40.	Ankle Circumference				.199				
41.	Scye Circumference				.189				.037
42.	Axillary Arm Circumference				.167				.083
43.	Biceps Circumference				.186				.027
44.	Lower Arm Circumference				.236				.035
45.	Wrist Circumference				.222				.096
46.	Sleeve Inseam				.109				.109
47.	Sleeve Length (Spine-Wrist)				.193				.121
48.	Gluteal Arc				.077				.025
49.	Vertical Trunk Circumference				.230				.047
50.	Interscye				.140				.155
51.	Interscye Maximum				.156				.104
52.	Foot Length				.202				.192
53.	Foot Breadth				.084				.216
54.	Hand Length				.177				.184
55.	Hand Breadth				.184				.042
56.	Hand Breadth at Thumb				.217				.120
57.	Thickness at Metacarpal III				.138				.086
58.	Hand Circumference				.200				.159
59.	Hand Circumference at Thumb				.239				.107
60.	Head Circumference				.204				.048
61.	Sagittal Arc				.289				.094
62.	Bitragion-Coronal Arc				.189				.095
63.	Bitragion-Minimum Frontal Arc				.277				.048
64.	Bitragion-Subnasale Arc				.283				.053



No.	74. Bitragion Diameter	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		5.51	.21	4.8 - 6.3	5.1	5.5	5.9	0.0728	0.1716
1. Weight	.386			33. Chest Circumference	.326		65. Bitragion-Menton Arc	.395	
2. Stature	.163			34. Waist Circumference	.315		66. Bitragion-Submandibular Arc	.400	
3. Tragion Height	.157			35. Buttock Circumference	.329		67. Bitragion-Imion Arc	.092	
4. Cervicale Height	.186			36. Buttock Circumference Sitting	.335		68. Head Length	.112	
5. Suprasternale Height	.171			37. Thigh Circumference	.285		69. Tragion to Wall	.051	
6. Nipple (Chest) Height	.155			38. Lower Thigh Circumference	.291		70. Nasal Root to Wall	.066	
7. Waist height	.125			39. Calf Circumference	.268		71. Pronasale to Wall	.126	
8. Female Height	.098			40. Ankle Circumference	.281		72. External Canthus to Wall	.083	
9. Gluteal Furrow Height	.138			41. Scye Circumference	.336		73. Head Breadth	.604	
10. Crotch Height	.084			42. Axillary Arm Circumference	.250		74. Bitragion Diameter	.365	
11. Patella Height	.163			43. Biceps Circumference	.261		75. Maximum Frontal Diameter	.502	
12. Sitting Height	.149			44. Lower Arm Circumference	.286		76. Bizygomatic Diameter	.293	
13. Eye Height Sitting	.162			45. Wrist Circumference	.291		77. Bigonial Diameter	.353	
14. Shoulder Height Sitting	.212			46. Sleeve Inseam	.085		78. Biocular Diameter	.330	
15. Elbow Rest Height	.054			47. Sleeve Length (Spine-Wrist)	.219		79. Interpupillary Distance	.278	
16. Knee Height Sitting	.217			48. Gluteal Arc	.117		80. Interocular Diameter	.166	
17. Popliteal Height Sitting	.098			49. Vertical Trunk Circumference	.268		81. Nasal Root Breadth	.235	
18. Buttock-Popliteal Length	.174			50. Interscye	.229		82. Nose Breadth	.237	
19. Buttock-Knee Length	.244			51. Interscye Maximum	.246		83. Lip Length	.047	
20. Shoulder-Elbow Length	.233			52. Foot Length	.150		84. Menton-Subnasale Length	.051	
21. Forearm-Hand Length	.176			53. Foot Breadth	.230		85. Menton-Vertex Height	.087	
22. Functional Reach	.128			54. Hand Length	.184		86. Head Height (Tragion to Vertex)	.027	
23. Bideitoid Diameter	.353			55. Hand Breadth	.242		87. Lip-to-Lip Distance	.133	
24. Chest Breadth	.309			56. Hand Breadth at Thumb	.220		88. Nose Length	.119	
25. Waist Breadth	.341			57. Thickness at Metacarpal III	.191		89. Nose Protrusion	.179	
26. Hip Breadth	.299			58. Hand Circumference	.274		90. Ear Length	.168	
27. Chest Depth	.294			59. Hand Circumference at Thumb	.260		91. Ear Breadth	.054	
28. Waist Depth	.268			60. Head Circumference	.335		92. Ear Protrusion	.211	
29. Buttock Depth	.316			61. Sagittal Arc	.079		93. Subscapular Skinfold	.223	
30. Hip Breadth-Sitting	.345			62. Bitragion-Coronal Arc	.174		94. Juxta-Nipple Skinfold	.168	
31. Neck Circumference	.370			63. Bitragion-Minimum Frontal Arc	.409		95. Back of Arm Skinfold	.153	
32. Shoulder Circumference	.296			64. Bitragion-Subnasale Arc	.464		96. Mid/Axillary Line at Umbilicus Skin Fold		



## No. 76. Bony Diameters

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	5.36	.28	4.5 - 6.3	4.8	5.4	5.9	-0.2135	-0.0450
1. Weight	.334							
2. Stature	.112							
3. Tragion Height	.113							
4. Cervicole Height	.086							
5. Suprasternal Height	.127							
6. Nipple (Chest) Height	.098							
7. Waist height	.100							
8. Penale Height	.077							
9. Gluteal Furrow Height	.057							
10. Crotch Height	.101							
11. Patella Height	.094							
12. Sitting Height	.083							
13. Eye Height Sitting	.121							
14. Shoulder Height Sitting	.079							
15. Elbow Rel. Height	.054							
16. Knee Height Sitting	.084							
17. Popliteal Height Sitting	.070							
18. Buttock-Popliteal Length	.126							
19. Buttock-Knee Length	.140							
20. Shoulder-Elbow Length	.039							
21. Forearm-Hand Length	.110							
22. Functional Reach	.169							
23. Bideltoid Diameter	.228							
24. Chest Breadth	.214							
25. Waist Breadth	.244							
26. Hip Breadth	.257							
27. Chest Depth	.207							
28. Waist Depth	.215							
29. Buttock Depth	.164							
30. Hip Breadth Sitting	.148							
31. Neck Circumference	.289							
32. Shoulder Circumference	.324							
33. Chest Circumference	.311							
34. Waist Circumference	.267							
35. Buttock Circumference	.298							
36. Buttock Circumference Sitting	.296							
37. Thigh Circumference	.244							
38. Lower Thigh Circumference	.272							
39. Calf Circumference	.242							
40. Ankle Circumference	.195							
41. Seve Circumference	.223							
42. Axillary Arm Circumference	.331							
43. Biceps Circumference	.271							
44. Lower Arm Circumference	.275							
45. Wrist Circumference	.202							
46. Sleeve Inseam	.042							
47. Sleeve Length (Spine-Wrist)	.217							
48. Gluteal Arc	.088							
49. Vertical Trunk Circumference	.280							
50. Interseye	.215							
51. Interseye Maximum	.285							
52. Foot Length	.126							
53. Foot Breadth	.004							
54. Hand Length	.004							
55. Hand Breadth	.077							
56. Hand Breadth at Thumb	.083							
57. Thickness at Metacarpal III	.116							
58. Hand Circumference	.102							
59. Hand Circumference at Thumb	.189							
60. Head Circumference	.269							
61. Sagittal Arc	.107							
62. Bitragion-Coronal Arc	.174							
63. Bitragion-Minimum Frontal Arc	.245							
64. Bitragion-Subnasale Arc	.304							
65. Bitragion-Menton Arc	.301							
66. Bitragion-Submandibular Arc	.237							
67. Bitragion-Inion Arc	.023							
68. Head Length	.088							
69. Tragon to Wall	.054							
70. Nasal Root to Wall	.069							
71. Pronasale to Wall	.077							
72. External Canthus to Wall	.035							
73. Head Breadth	.404							
74. Bitragion Diameter	.502							
75. Maximum Frontal Diameter	.392							
76. Bzygomatric Diameter	.406							
77. Biconial Diameter	.346							
78. Biocular Diameter	.233							
79. Interpupillary Distance	.128							
80. Interocular Diameter	.149							
81. Nasal Root Breadth	.115							
82. Nose Breadth	.143							
83. Lip Length	.143							
84. Menton-Subnasale Length	.001							
85. Menton-Vertex Height	.056							
86. Head Height (Tragon to Vertext)	.052							
87. Lip-to-Lip Distance	.069							
88. Nose Length	.064							
89. Nose Protrusion	.037							
90. Ear Length	.140							
91. Ear Breadth	.053							
92. Ear Protrusion	.055							
93. Subscapular Skinfold	.133							
94. Juxta-Nipple Skinfold	.120							
95. Back of Arm Skinfold	.018							
96. Mid/Axillary Line at Umbilicus Skin Fold	.272							

No.	77. Biomial Diameter	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		4.69	.34	3.7 - 5.7	4.1	4.7	5.4	0.1763	-0.5432
1.	Weight	.346							
2.	Stature	.095							
3.	Tregion Height	.090							
4.	Cervicale Height	.086							
5.	Suprasternale Height	.115							
6.	Nipple (Chest) Height	.063							
7.	Waist height	.077							
8.	Penale Height	.063							
9.	Gluteal Furrow Height	.033							
10.	Crotch Height	.057							
11.	Patella Height	.000							
12.	Sitting Height	.117							
13.	Eye Height Sitting	.046							
14.	Shoulder Height Sitting	.039							
15.	Elbow Rest Height	.162							
16.	Knee Height Sitting	-.065							
17.	Popliteal Height Sitting	.098							
18.	Buttock-Popliteal Length	.064							
19.	Buttock-Knee Length	.072							
20.	Shoulder-Elbow Length	-.074							
21.	Forearm-Hand Length	.105							
22.	Functional Reach	.151							
23.	Bideltoid Diameter	.160							
24.	Chest Breadth	.185							
25.	Waist Breadth	.225							
26.	Hip Breadth	.235							
27.	Chest Depth	.266							
28.	Waist Depth	.282							
29.	Buttock Depth	.205							
30.	Hip Breadth-Sitting	.174							
31.	Neck Circumference	.215							
32.	Shoulder Circumference	.410							
33.	Chest Circumference								
34.	Waist Circumference								
35.	Buttock Circumference								
36.	Buttock Circumference Sitting								
37.	Thigh Circumference								
38.	Lower Thigh Circumference								
39.	Calf Circumference								
40.	Ankle Circumference								
41.	Scye Circumference								
42.	Axillary Arm Circumference								
43.	Biceps Circumference								
44.	Lower Arm Circumference								
45.	Wrist Circumference								
46.	Sleeve Inseam								
47.	Sleeve Length (Spine-Wrist)								
48.	Gluteal Arc								
49.	Vertical Trunk Circumference								
50.	Interscye								
51.	Interscye maximum								
52.	Foot Length								
53.	Foot Breadth								
54.	Hand Length								
55.	Hand Breadth								
56.	Hand Breadth at Thumb								
57.	Thickness at Metacarpal III								
58.	Hand Circumference								
59.	Hand Circumference at Thumb								
60.	Head Circumference								
61.	Sagittal Arc								
62.	Tragion-Coronal Arc								
63.	Tragion-Minimum Frontal Arc								
64.	Tragion-Subnasale Arc								
65.	Bitragion-Menton Arc								
66.	Bitragion-Submandibular Arc								
67.	Bitragion-Inion Arc								
68.	Head Length								
69.	Tragion to Wall								
70.	Nasal Root to Wall								
71.	Pronasale to Wall								
72.	External Canthus to Wall								
73.	Head Breadth								
74.	Bitragion Diameter								
75.	Maximum Frontal Diameter								
76.	Bizygomatic Diameter								
77.	Bigonial Diameter								
78.	Biocular Diameter								
79.	Interpupillary Distance								
80.	Interocular Diameter								
81.	Nasal Root Breadth								
82.	Nose Breadth								
83.	Lip Length								
84.	Menton-Subnasale Length								
85.	Menton-Vertex Height								
86.	Head Height (Tragion to Vertex)								
87.	Lip-to-Lip Distance								
88.	Nose Length								
89.	Nose Protrusion								
90.	Ear Length								
91.	Ear Breadth								
92.	Ear Protrusion								
93.	Subscapular Skinfold								
94.	Juxta-Nipple Skinfold								
95.	Back of Arm Skinfold								
96.	Mid/Axillary Line at Umbilicus Skin Fold								

## No. 78 Biocular Diameter

		Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		3.71	.16	3.2 - 4.4	3.4	3.7	4.1	0.2981	0.3116
1. Weight		.192		33. Chest Circumference	.173				.295
2. Stature		.142		34. Waist Circumference	.093				.309
3. Tragion Height		.138		35. Buttock Circumference	.166				-.054
4. Cervicale Height		.130		36. Buttock Circumference Sitting	.160				.247
5. Suprasternale Height		.148		37. Thigh Circumference	.106				-.007
6. Nipple (Chest) Height		.147		38. Lower Thigh Circumference	.185				.209
7. Waist height		.150		39. Calf Circumference	.139				.216
8. Penate Height		.147		40. Ankle Circumference	.145				.109
9. Gluteal Furrow Height		.107		41. Scye Circumference	.181				.277
10. Crotch Height		.144		42. Axillary Arm Circumference	.141				.353
11. Patella Height		.187		43. Biceps Circumference	.155				.358
12. Sitting Height		.064		44. Lower Arm Circumference	.195				.346
13. Eye Height Sitting		.081		45. Wrist Circumference	.184				.122
14. Shoulder Height Sitting		.060		46. Sleeve Inseam	.136				
15. Elbow Rest Height		.012		47. Sleeve Length (Spine-Wrist)	.190				.673
16. Knee Height Sitting		.142		48. Gluteal Arc	.090				.444
17. Popliteal Height Sitting		.082		49. Vertical Trunk Circumference	.135				.354
18. Buttock-Popliteal Length		.138		50. Interscye	.205				.189
19. Buttock-Knee Length		.147		51. Interscye Maximum	.178				
20. Shoulder-Elbow Length		.128		52. Foot Length	.092				.003
21. Forearm-Hand Length		.128		53. Foot Breadth	.165				.039
22. Functional Reach		.153		54. Hand Length	.066				.120
23. Biddeltoid Diameter		.201		55. Hand Breadth	.135				.120
24. Chest Breadth		.153		56. Hand Breadth at Thumb	.137				.055
25. Waist Breadth		.136		57. Thickness at Metacarpal III	.012				.145
26. Hip Breadth		.158		58. Hand Circumference	.134				.134
27. Chest Depth		.122		59. Hand Circumference at Thumb	.183				.023
28. Waist Depth		.063		60. Head Circumference	.310				.067
29. Buttock Depth		.091		61. Sagittal Arc	.028				.029
30. Hip Breadth Sitting		.109		62. Bitragion-Coronal Arc	.191				.011
31. Neck Circumference		.194		63. Bitragion-Minimum Frontal Arc	.415				.000
32. Shoulder Circumference		.133		64. Bitragion-Subnasale Arc	.376				.029
				65. Bitragion-Menton Arc					
				66. Bitragion-Submandibular Arc					
				67. Bitragion-Inion Arc					
				68. Head Length					
				69. Tragion to Wall					
				70. Nasal Root to Wall					
				71. Pronasale to Wall					
				72. External Canthus to Wall					
				73. Head Breadth					
				74. Bitragion Diameter					
				75. Maximum Frontal Diameter					
				76. Bifrontal Diameter					
				77. Bigonial Diameter					
				78. Bicocular Diameter					
				79. Interpupillary Distance					
				80. Interocular Diameter					
				81. Nasal Root Breadth					
				82. Nose Breadth					
				83. Lip Length					
				84. Menton-Subnasale Length					
				85. Menton-Vertex Height					
				86. Head Height (Tragion to Vertex)					
				87. Lip-to-Lip Distance					
				88. Nose Length					
				89. Nose Protrusion					
				90. Ear Length					
				91. Ear Breadth					
				92. Ear Protrusion					
				93. Subscapular Skinfold					
				94. Juxta-Nipple Skinfold					
				95. Back of Arm Skinfold					
				96. Mid/Axillary Line at Umbilicus Skin Fold					



## No. 80. Intercocular Diameter

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
1. Weight	.106							
2. Stature	.062							
3. Tragion Height	.053							
4. Cervicale Height	.065							
5. Suprasternale Height	.047							
6. Nipple (Chest) Height	.059							
7. Waist height	.048							
8. Penale Height	.023							
9. Gluteal Furrow Height	.052							
10. Crotch Height	.007							
11. Patella Height	.096							
12. Sitting Height	.065							
13. Eye Height Sitting	.067							
14. Shoulder Height Sitting	.137							
15. Elbow Rest Height	.019							
16. Knee Height Sitting	.161							
17. Popliteal Height Sitting	.010							
18. Buttock-Popliteal Length	.065							
19. Buttock-Knee Length	.090							
20. Shoulder-Elbow Length	.185							
21. Forearm-Hand Length	.093							
22. Functional Reach	.010							
23. Bideltoid Diameter	.147							
24. Chest Breadth	.111							
25. Waist Breadth	.105							
26. Hip Breadth	.072							
27. Chest Depth	.085							
28. Waist Depth	.038							
29. Buttock Depth	.082							
30. Hip Breadth-Sitting	.165							
31. Neck Circumference	.153							
32. Shoulder Circumference	.022							
33. Chest Circumference				.079		65. Bitragion-Menton Arc		.208
34. Waist Circumference				.057		66. Bitragion-Submandibular Arc		.135
35. Buttock Circumference				.074		67. Bitragion-Inion Arc		.078
36. Buttock Circumference Sitting				.097		68. Head Length		.169
37. Thigh Circumference				.071		69. Tragion to Wall		.166
38. Lower Thigh Circumference				.115		70. Nasal Root to Wall		.087
39. Calf Circumference				.096		71. Pronasale to Wall		.113
40. Ankle Circumference				.161		72. External Canthus to Wall		.025
41. Scye Circumference				.116		73. Head Breadth		.223
42. Axillary Arm Circumference				.014		74. Bitragion Diameter		.278
43. Biceps Circumference				.087		75. Maximum Frontal Diameter		.177
44. Lower Arm Circumference				.115		76. Birygomatic Diameter		.128
45. Wrist Circumference				.156		77. Bignonial Diameter		.033
46. Sleeve Inseam				.043		78. Bicipital Diameter		.444
47. Sleeve Length (Spine-Wrist)				.046		79. Interpupillary Distance		.608
48. Gluteal Arc				.051		80. Interocular Diameter		
49. Vertical Trunk Circumference				.037		81. Nasal Root Breadth		.441
50. Intercye				.105		82. Nose Breadth		.224
51. Intercye Maximum				.048		83. Lip Length		.216
52. Foot Length				.049		84. Menton-Subnasale Length		.128
53. Foot Breadth				.280		85. Menton-Vertex Height		.020
54. Hand Length				.175		86. Head Height (Tragion to Vertex)		.146
55. Hand Breadth				.207		87. Lip-to-Lip Distance		.089
56. Hand Breadth at Thumb				.162		88. Nose Length		.044
57. Thickness at Metacarpal III				.030		89. Nose Protrusion		.053
58. Hand Circumference				.253		90. Ear Length		.015
59. Hand Circumference at Thumb				.167		91. Ear Breadth		.058
60. Head Circumference				.180		92. Ear Protrusion		.014
61. Sagittal Arc				.074		93. Subscapular Skinfold		.032
62. Bitragion-Coronal Arc				.093		94. Juxta-Nipple Skinfold		.047
63. Bitragion-Minimum Frontal Arc				.420		95. Back of Arm Skinfold		.117
64. Bitragion-Subnasale Arc				.365		96. Mid/Axillary Line at Umbilicus Skin Fold		





No.	83. Lip Length	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		2.02	.17	1.3 - 2.7	1.7	2.0	2.4	0.0691	0.4924
1.	Weight	.167		33. Chest Circumference	.181		65. Bitracion-Menton Arc	.363	
2.	Stature	.058		34. Waist Circumference	.122		66. Bitracion-Submandibular Arc	.324	
3.	Tragion Height	.062		35. Buttock Circumference	.135		67. Bitracion-Union Arc	-.205	
4.	Cervicale Height	.052		36. Buttock Circumference Sitting	.190		68. Head Length	.150	
5.	Suprasternal Height	.067		37. Thigh Circumference	.087		69. Tragion to Wall	-.083	
6.	Nipple (Chest) Height	.091		38. Lower Thigh Circumference	.205		70. Nasal Root to Wall	.127	
7.	Waist height	.046		39. Calf Circumference	.175		71. Pronasale to Wall	.207	
8.	Penale Height	.007		40. Ankle Circumference	.153		72. External Canthus to Wall	.104	
9.	Gluteal Furrow Height	.044		41. Scye Circumference	.255		73. Head Breadth	.159	
10.	Crotch Height	.029		42. Axillary Arm Circumference	.112		74. Bitracion Diameter	.237	
11.	Patella Height	.135		43. Biceps Circumference	.222		75. Maximum Frontal Diameter	.209	
12.	Sitting Height	.021		44. Lower Arm Circumference	.225		76. Bizygomatic Diameter	.143	
13.	Eye Height Sitting	.073		45. Wrist Circumference	.207		77. Biconjugal Diameter	-.064	
14.	Shoulder Height Sitting	.113		46. Sleeve Inseam	.094		78. Biocular Diameter	.301	
15.	Elbow Rest Height	-.018		47. Sleeve Length (Spine-Wrist)	.068		79. Interpupillary Distance	.265	
16.	Knee Height Sitting	.172		48. Gluteal Arc	.081		80. Interocular Diameter	.216	
17.	Popliteal Height Sitting	.047		49. Vertical Trunk Circumference	.082		81. Nasal Root Breadth	.274	
18.	Buttock-Popliteal Length	.076		50. Interscye	.206		82. Nose Breadth	.378	
19.	Buttock-Knee Length	.114		51. Interscye Maximum	.130		83. Lip Length		
20.	Shoulder-Elbow Length	.171		52. Foot Length	-.036		84. Menton-Subnasale Length	-.068	
21.	Forearm-Hand Length	.036		53. Foot Breadth	.306		85. Menton-Vertex Height	-.030	
22.	Functional Reach	.038		54. Hand Length	.114		86. Head Height (Tragion to Vertex)	.066	
23.	Bideltoid Diameter	.245		55. Hand Breadth	.231		87. Lip-to-Lip Distance	.095	
24.	Chest Breadth	.194		56. Hand Breadth at Thumb	.157		88. Nose Length	.155	
25.	Waist Breadth	.169		57. Thickness at Metacarpal III	.014		89. Nose Protrusion	.207	
26.	Hip Breadth	.143		58. Hand Circumference	.274		90. Ear Length	.209	
27.	Chest Depth	.161		59. Hand Circumference at Thumb	.241		91. Ear Breadth	.109	
28.	Waist Depth	.114		60. Head Circumference	.110		92. Ear Protrusion	.129	
29.	Buttock Depth	.135		61. Sagittal Arc	-.245		93. Subscapular Skinfold	.016	
30.	Hip Breadth Sitting	.157		62. Bitracion-Coronal Arc	-.043		94. Juxta-Nipple Skinfold	.015	
31.	Neck Circumference	.264		63. Bitracion-Minimum Frontal Arc	.290		95. Back of Arm Skinfold	-.078	
32.	Shoulder Circumference	.042		64. Bitracion-Subnasale Arc	.400		96. Mid/Axillary Line at Umbilicus Skin Fold	-.097	



## No. 85. Menton-Vertex Height

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
	8.73	.40	7.3 - 10.0	7.9	8.7	9.6	-0.1092	0.0913
1. Weight	.132		33. Chest Circumference	.026				.215
2. Stature	.220		34. Waist Circumference	.000				.150
3. Tragion Height	.182		35. Buttock Circumference	.074				.210
4. Cervicale Height	.150		36. Buttock Circumference Sitting	.047				.314
5. Suprasternale Height	.175		37. Thigh Circumference	.060				.085
6. Nipple (Chest) Height	.156		38. Lower Thigh Circumference	.070				.332
7. Waist height	.138		39. Calf Circumference	.110				.128
8. Penile Height	.105		40. Ankle Circumference	.163				.216
9. Gluteal Furrow Height	.099		41. Scye Circumference	.030				.125
10. Crotch Height	.077		42. Axillary Arm Circumference	.014				.051
11. Patella Height	.091		43. Biceps Circumference	.056				.006
12. Sitting Height	.286		44. Lower Arm Circumference	.129				.056
13. Eye Height Sitting	.199		45. Wrist Circumference	.134				.103
14. Shoulder Height Sitting	.087		46. Sleeve Inseam	.090				.039
15. Elbow Rest Height	.036		47. Sleeve Length (Spine-Wrist)	.159				.009
16. Knee Height Sitting	.126		48. Gluteal Arc	.082				.020
17. Popliteal Height Sitting	.151		49. Vertical Trunk Circumference	.145				-.106
18. Buttock-Popliteal Length	.053		50. Interscye	.029				.099
19. Buttock-Knee Length	.072		51. Interscye Maximum	.057				-.030
20. Shoulder-Elbow Length	.076		52. Foot Length	.215				.458
21. Forearm-Hand Length	.178		53. Foot Breadth	.060				
22. Functional Reach	.128		54. Hand Length	.178				
23. Bideltoid Diameter	.108		55. Hand Breadth	.155				
24. Chest Breadth	.081		56. Hand Breadth at Thumb	.149				
25. Waist Breadth	.011		57. Thickness at Metacarpal III	.164				
26. Hip Breadth	.086		58. Hand Circumference	.143				
27. Chest Depth	-.040		59. Hand Circumference at Thumb	.165				
28. Waist Depth	-.009		60. Head Circumference	.362				
29. Buttock Depth	.051		61. Sagittal Arc	.346				
30. Hip Breadth-Sitting	.096		62. Bitragion-Coronal Arc	.414				
31. Neck Circumference	.104		63. Bitragion-Minimum Frontal Arc	.189				.003
32. Shoulder Circumference	.121		64. Bitragion-Subnasale Arc	.108				-.023

## No. 86. Head Height (Tragion to Vertex)

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
5.16	.25	4.2 - 6.1	4.6	5.2	5.7	-0.1747	0.5180	
1. Weight	.139	33. Chest Circumference	.059	65. Bitragion-Menton Arc	.060			
2. Stature	.190	34. Waist Circumference	.056	66. Bitragion-Submandibular Arc	.010			
3. Tragion Height	.124	35. Buttock Circumference	.093	67. Bitragion-Inion Arc	.070			
4. Cervicale Height	.146	36. Buttock Circumference Sitting	.085	68. Head Length	.239			
5. Suprasternale Height	.132	37. Thigh Circumference	.091	69. Tragion to Wall	.018			
6. Nipple (Chest) Height	.124	38. Lower Thigh Circumference	.102	70. Nasal Root to Wall	.238			
7. Waist height	.118	39. Calf Circumference	.124	71. Pronasale to Wall	.169			
8. Peniale Height	.077	40. Ankle Circumference	.181	72. External Canthus to Wall	.184			
9. Gluteal Furrow Height	.088	41. Scye Circumference	.079	73. Head Breadth	.255			
10. Crotch Height	.067	42. Axillary Arm Circumference	-.003	74. Bitragion Diameter	.087			
11. Patella Height	.120	43. Biceps Circumference	.087	75. Maximum Frontal Diameter	.050			
12. Sitting Height	.236	44. Lower Arm Circumference	.117	76. Bizygomatic Diameter	.052			
13. Eye Height Sitting	.144	45. Wrist Circumference	.118	77. Bigonial Diameter	.009			
14. Shoulder Height Sitting	.136	46. Sleeve Inseam	.081	78. Biocular Diameter	.120			
15. Elbow Rest Height	.055	47. Sleeve Length (Spine-Wrist)	.106	79. Interpupillary Distance	.170			
16. Knee Height Sitting	.176	48. Gluteal Arc	.092	80. Interocular Diameter	.146			
17. Popliteal Height Sitting	.098	49. Vertical Trunk Circumference	.103	81. Nasal Root Breadth	.082			
18. Buttock-Popliteal Length	.079	50. Interscye	.053	82. Nose Breadth	.134			
19. Buttock-Knee Length	.116	51. Interscye Maximum	.050	83. Lip Length	.066			
20. Shoulder-Elbow Length	.118	52. Foot Length	.145	84. Menton-Subnasale Length	.212			
21. Forearm-Hand Length	.138	53. Foot Breadth	.183	85. Menton-Vertex Height	.498			
22. Functional Reach	.014	54. Hand Length	.186	86. Head Height (Tragion to Vertex)				
23. Bideltoid Diameter	.149	55. Hand Breadth	.175	87. Lip-to-Lip Distance	.138			
24. Chest Breadth	.117	56. Hand Breadth at Thumb	.171	88. Nose Length	.071			
25. Waist Breadth	.103	57. Thickness at Metacarpal III	.055	89. Nose Protrusion	.057			
26. Hip Breadth	.121	58. Hand Circumference	.196	90. Ear Length	.052			
27. Chest Depth	.034	59. Hand Circumference at Thumb	.123	91. Ear Breadth	.052			
28. Waist Depth	.004	60. Head Circumference	.343	92. Ear Protrusion	.119			
29. Buttock Depth	.059	61. Sagittal Arc	.205	93. Subscapular Skinfold	.027			
30. Hip Breadth-Sitting	.178	62. Bitragion-Coronal Arc	.562	94. Juxta-Nipple Skinfold	-.010			
31. Neck Circumference	.151	63. Bitragion-Minimum Frontal Arc	.340	95. Back of Arm Skinfold	.005			
32. Shoulder Circumference	.057	64. Bitragion-Subnasale Arc	.121	96. Mid/Axillary Line at Umbilious Skin Fold	-.051			

No.	87. Lip-to-Lip Distance	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		.65	.14	.24 - 1.1	.3	.7	.9	-0.0859	-0.1051
1.	Weight	.028		33. Chest Circumference	-.033	65. Bitragion-Menton Arc	.038		
2.	Stature	.137		34. Waist Circumference	-.053	66. Bitragion-Submandibular Arc	.038		
3.	Tragion Height	.132		35. Buttock Circumference	.008	67. Bitragion-Union Arc	-.117		
4.	Cervicale Height	.128		36. Buttock Circumference Sitting	.008	68. Head Length	.059		
5.	Supra sternale Height	.125		37. Thigh Circumference	.035	69. Tragion to Wall	-.074		
6.	Nipple (Chest) Height	.138		38. Lower Thigh Circumference	.069	70. Nasal Root to Wall	.071		
7.	Waist Height	.148		39. Calf Circumference	.042	71. Pronasale to Wall	.083		
8.	Penale Height	.152		40. Ankle Circumference	.059	72. External Canthus to Wall	.042		
9.	Gluteal Furrow Height	.138		41. Scye Circumference	.027	73. Head Breadth	-.008		
10.	Crotch Height	.139		42. Axillary Arm Circumference	-.053	74. Bitragion Diameter	-.027		
11.	Patella Height	.158		43. Biceps Circumference	.018	75. Maximum Frontal Diameter	-.001		
12.	Sitting Height	.076		44. Lower Arm Circumference	.033	76. Bizygomatic Diameter	-.069		
13.	Eye Height Sitting	.097		45. Wrist Circumference	.044	77. Bigonial Diameter	-.157		
14.	Shoulder Height Sitting	.055		46. Sleeve Inseam	.150	78. Bicocular Diameter	.120		
15.	Elbow Rest Height	.038		47. Sleeve Length (Spine-Wrist)	.066	79. Interpupillary Distance	.079		
16.	Knee Height Sitting	.184		48. Gluteal Arc	.055	80. Interocular Diameter	.089		
17.	Popliteal Height Sitting	.106		49. Vertical Trunk Circumference	.009	81. Nasal Root Breadth	.207		
18.	Buttock-Popliteal Length	.105		50. Interscye	.063	82. Nose Breadth	.014		
19.	Buttock-Knee Length	.144		51. Interscye Maximum	-.022	83. Lip Length	.095		
20.	Shoulder-Elbow Length	.127		52. Foot Length	.046	84. Menton-Subnasale Length	.348		
21.	Forearm-Hand Length	.104		53. Foot Breadth	.198	85. Menton-Vertex Height	.182		
22.	Functional Reach	.072		54. Hand Length	.106	86. Head Height (Tragion to Vertex)	.138		
23.	Bideltoid Diameter	.077		55. Hand Breadth	.098	87. Lip-to-Lip Distance			
24.	Chest Breadth	.012		56. Hand Breadth at Thumb	.108	88. Nose Length	.065		
25.	Waist Breadth	.014		57. Thickness at Metacarpal III	-.032	89. Nose Protrusion	.109		
26.	Hip Breadth	.004		58. Hand Circumference	.094	90. Ear Length	-.046		
27.	Chest Depth	.071		59. Hand Circumference at Thumb	.078	91. Ear Breadth	.072		
28.	Waist Depth	.083		60. Head Circumference	-.011	92. Ear Protrusion	.050		
29.	Buttock Depth	.005		61. Sagittal Arc	-.083	93. Subscapular Skinfold	.077		
30.	Hip Breadth Sitting	.032		62. Bitragion-Coronal Arc	.047	94. Juxta-Nipple Skinfold	-.111		
31.	Neck Circumference	.038		63. Bitragion-Minimum Frontal Arc	.103	95. Back of Arm Skinfold	-.068		
32.	Shoulder Circumference	.034		64. Bitragion: Subnasale Arc	.090	96. Mid/Axillary Line at Umbilicus Skin Fold	-.076		



**No. 89. Nose Protrusion**

No.	89. Nose Protrusion	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
.90	.10	.59 - 1.4	.7	.9	1.1	.2703	0.8049		
1. Weight	.134				.114			.173	
2. Stature	.161				.074			.214	
3. Tragion Height	.163				.092			.138	
4. Cervicale Height	.142				.137			.123	
5. Suprasternale Height	.166				.058			.059	
6. Nipple (Chest) Height	.183				.142			.097	
7. Waist height	.139				.120			.247	
8. Penale Height	.115				.126			.086	
9. Gluteal Furrow Height	.145				.140			.107	
10. Crotch Height	.145				.041			.119	
11. Patella Height	.195				.119			.066	
12. Sitting Height	.079				.142			.037	
13. Eye Height Sitting	.101				.176			.097	
14. Shoulder Height Sitting	.106				.163			.145	
15. Elbow Rest Height	.012				.131			.166	
16. Knee Height Sitting	.206				.068			.085	
17. Popliteal Height Sitting	.064				.101			.194	
18. Buttock-Popliteal Length	.146				.147			.076	
19. Buttock-Knee Length	.169				.057			.207	
20. Shoulder-Elbow Length	.164				.095			.050	
21. Forearm-Hand Length	.144				.227			.062	
22. Functional Reach	.155				.166			.057	
23. Bicipitoid Diameter	.147				.173			.109	
24. Chest Breadth	.124				.129			.288	
25. Waist Breadth	.096				.015			.128	
26. Hip Breadth	.137				.221			.154	
27. Chest Depth	.113				.214			.104	
28. Waist Depth	.069				.101			.011	
29. Buttock Depth	.086				.121			.005	
30. Hip Breadth Sitting	.109				.008			.022	
31. Neck Circumference	.131				.167			.035	
32. Shoulder Circumference	.034				.162				
33. Chest Circumference					.65. Bitragion-Menton Arc				
34. Waist Circumference					.66. Bitragion-Submandibular Arc				
35. Buttock Circumference					.67. Bitragion-Inion Arc				
36. Buttock Circumference Sitting					.68. Head Length				
37. Thigh Circumference					.69. Tragion to Wall				
38. Lower Thigh Circumference					.70. Nasal Root to Wall				
39. Calf Circumference					.71. Pronasale to Wall				
40. Ankle Circumference					.72. External Canthus to Wall				
41. Scye Circumference					.73. Head Breadth				
42. Axillary Arm Circumference					.74. Bitragion Diameter				
43. Biceps Circumference					.75. Maximum Frontal Diameter				
44. Lower Arm Circumference					.76. Zygomatric Diameter				
45. Wrist Circumference					.77. Bigonial Diameter				
46. Sleeve Inseam					.78. Bicocular Diameter				
47. Sleeve Length (Spine-Wrist)					.79. Interpupillary Distance				
48. Gluteal Arc					.80. Interocular Diameter				
49. Vertical Trunk Circumference					.81. Nasal Root Breadth				
50. Interscye					.82. Nose Breadth				
51. Interscye Maximum					.83. Lip Length				
52. Foot Length					.84. Menton-Subnasale Length:				
53. Foot Breadth					.85. Menton-Vertex Height				
54. Hand Length					.86. Head Height (Tragion to Vertex)				
55. Hand Breadth					.87. Lip-to-Lip Distance				
56. Hand Breadth at Thumb					.88. Nose Length				
57. Thickness at Metacarpal II					.89. Nose Protrusion				
58. Hand Circumference					.90. Ear Length				
59. Hand Circumference at Thumb					.91. Ear Breadth				
60. Head Circumference					.92. Ear Protrusion				
61. Sagittal Arc					.93. Subscapular Skinfold				
62. Bitragion-Coronal Arc					.94. Juxta-Nipple Skinfold				
63. Bitragion-Minimum Frontal Arc					.95. Back of Arm Skinfold				
64. Bitragion-Suinasale Arc					.96. Mid/Axillary Line at Umbilicus Skin Fold				

No.	90. Ear Length	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
2.57	.16	2.1 - 3.1		2.2	2.6	2.9	0.0883	-0.0444	
1. Weight	.248	33. Chest Circumference		.191	65. Bitragion-Menton Arc		.248		
2. Stature	.188	34. Waist Circumference		.204	66. Bitragion-Submandibular Arc		.243		
3. Tragion Height	.184	35. Buttock Circumference		.208	67. Bitragion-Inion Arc		.128		
4. Cervicale Height*	.188	36. Buttock Circumference Sitting		.238	68. Head Length		.153		
5. Suprasternale Height	.190	37. Thigh Circumference		.134	69. Tragion to Wall		.113		
6. Nipple (Chest) Height	.176	38. Lower Thigh Circumference		.140	70. Nasal Root to Wall		.176		
7. Waist height	.129	39. Calf Circumference		.145	71. Pronasale to Wall		.229		
8. Penale Height	.100	40. Ankle Circumference		.179	72. External Canthus to Wall		.159		
9. Gluteal Furrow Height	.135	41. Scye Circumference		.183	73. Head Breadth		.023		
10. Crotch Height	.091	42. Axillary Arm Circumference		.151	74. Bitragion Diameter		.179		
11. Patella Height	.147	43. Biceps Circumference		.153	75. Maximum Frontal Diameter		.103		
12. Sitting Height	.160	44. Lower Arm Circumference		.140	76. Bzygomastic Diameter		.140		
13. Eye Height Sitting	.151	45. Wrist Circumference		.198	77. Bigonial Diameter		.129		
14. Shoulder Height Sitting	.156	46. Sleeve Inseam		.116	78. Biocular Diameter		.134		
15. Elbow Rest Height	.049	47. Sleeve Length (Spine-Wrist)		.178	79. Interpupillary Distance		.092		
16. Knee Height Sitting	.170	48. Gluteal Arc		.069	80. Intercocular Diameter		-.015		
17. Popliteal Height Sitting	.107	49. Vertical Trunk Circumference		.236	81. Nasal Root Breadth		-.035		
18. Buttock-Popliteal Length	.138	50. Interscye		.068	82. Nose Breadth		.192		
19. Buttock-Knee Length	.182	51. Interscye Maximum		.110	83. Lip Length		.209		
20. Shoulder-Elbow Length	.160	52. Foot Length		.175	84. Menton-Subnasale Length				
21. Forearm-Hand Length	.169	53. Foot Breadth		.097	85. Menton-Vertex Height				
22. Functional Reach	.147	54. Hand Length		.195	86. Head Height (Tragion to Vertex)		.052		
23. Bideltoid Diameter	.168	55. Hand Breadth		.174	87. Lip-to-Lip Distance		-.046		
24. Chest Breadth	.139	56. Hand Breadth at Thumb		.149	88. Nose Length		.099		
25. Waist Breadth	.192	57. Thickness at Metacarpal III		.181	89. Nose Protrusion		.128		
26. Hip Breadth	.211	58. Hand Circumference		.164	90. Ear Length				
27. Chest Depth	.212	59. Hand Circumference at Thumb		.183	91. Ear Breadth		.307		
28. Waist Depth	.219	60. Head Circumference		.139	92. Ear Protrusion		.178		
29. Buttock Depth	.192	61. Sagittal Arc		.181	93. Subscapular Skinfold		.146		
30. Hip Breadth-Sitting	.195	62. Bitragion-Coronal Arc		.030	94. Juxta-Nipple Skinfold		.149		
31. Neck Circumference	.173	63. Bitragion-Minimum Frontal Arc		.057	95. Back of Arm Skinfold		.109		
32. Shoulder Circumference	.163	64. Bitragion Subnasale Arc		.138	96. Mid/Axillary Line at Umbilious Skin Fold		.088		



No.	92. Ear Protrusion	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
		.86	.14	.39 - 1.5	.6	.9	1.2	0.2992	0.7697
1. Weight	.059	33. Chest Circumference	.030	65. Bitragion-Menton Arc	.068				
2. Stature	.086	34. Waist Circumference	.033	66. Bitragion-Submandibular Arc	.075				
3. Tragion Height	.083	35. Buttock Circumference	.047	67. Bitragion-Inion Arc	.006				
4. Cervicale Height	.084	36. Buttock Circumference Sitting	.072	68. Head Length	.053				
5. Supraasternale Height	.079	37. Thigh Circumference	.041	69. Tragion to Wall	-.024				
6. Nipple (Chest) Height	.089	38. Lower Thigh Circumference	.079	70. Nasal Root to Wall	.013				
7. Waist Height	.059	39. Calf Circumference	.084	71. Pronasale to Wall	.069				
8. Penale Height	.035	40. Ankle Circumference	.088	72. External Canthus to Wall	.048				
9. Gluteal Furrow Height	.066	41. Scye Circumference	.088	73. Head Breadth	.284				
10. Crotch Height	.047	42. Axillary Arm Circumference	-.016	74. Bitragion Diameter	.054				
11. Patella Height	.090	43. Biceps Circumference	.058	75. Maximum Frontal Diameter	.011				
12. Sitting Height	.076	44. Lower Arm Circumference	.073	76. Bizygomatic Diameter	.055				
13. Eye Height Sitting	.087	45. Wrist Circumference	.113	77. Bicondylar Diameter	-.081				
14. Shoulder Height Sitting	.108	46. Sleeve Inseam	.095	78. Buccular Diameter	.067				
15. Elbow Rest Height	.015	47. Sleeve Length (Spine-Wrist)	.071	79. Interpupillary Distance	.086				
16. Knee Height Sitting	.143	48. Gluteal Arc	.072	80. Interocular Diameter	.058				
17. Popliteal Height Sitting	.060	49. Vertical Trunk Circumference	.058	81. Nasal Root Breadth	.040				
18. Buttock-Popliteal Length	.075	50. Interscye	.053	82. Nose Breadth	.058				
19. Buttock-Knee Length	.086	51. Interscye Maximum	.005	83. Lip Length	.129				
20. Shoulder-Elbow Length	.141	52. Foot Length	.022	84. Menton-Subnasale Length	.069				
21. Forearm-Hand Length	.081	53. Foot Breadth	.127	85. Menton-Vertex Height	.049				
22. Functional Reach	.043	54. Hand Length	.104	86. Head Height (Tragion to Vertex)	.119				
23. Bideltoid Diameter	.102	55. Hand Breadth	.135	87. Lip-to-Lip Distance	.050				
24. Chest Breadth	.047	56. Hand Breadth at Thumb	.120	88. Nose Length	.118				
25. Waist Breadth	.056	57. Thickness at Metacarpal III	.010	89. Nose Protrusion	.104				
26. Hip Breadth	.076	58. Hand Circumference	.161	90. Ear Length	.178				
27. Chest Depth	.036	59. Hand Circumference at Thumb	.117	91. Ear Breadth	.025				
28. Waist Depth	.048	60. Head Circumference	.045	92. Ear Protrusion					
29. Buttock Depth	.074	61. Sagittal Arc	-.094	93. Subscapular Skinfold					
30. Hip Breadth-Sitting	.094	62. Bitragion-Coronal Arc	.014	94. Juxta-Nipple Skinfold					
31. Neck Circumference	.078	63. Bitragion-Minimum Frontal Arc	.121	95. Back of Arm Skinfold					
32. Shoulder Circumference	.015	64. Bitragion-Subnasale Arc	.102	96. Mid/Axillary Line at Umbilicus Skin Fold					

## No. 93. Subscapular Skinfold

	<u>Mean</u>	<u>S. D.</u>	<u>Range</u>	<u>2nd Percentile</u>	<u>Median</u>	<u>98th Percentile</u>	<u>Skewness</u>	<u>Kurtosis</u>
1. Weight	.516							
2. Stature	.030							
3. Tragion Height	.039							
4. Cervicale Height	.005							
5. Suprasternal Height	.015							
6. Nipple (Chest) Height	.024							
7. Waist height	.072							
8. Penale Height	.091							
9. Gluteal Furrow Height	.020							
10. Crotch Height	.116							
11. Patella Height	.031							
12. Sitting Height	.028							
13. Eye Height Sitting	.038							
14. Shoulder Height Sitting	.065							
15. Elbow Rest Height	.084							
16. Knee Height Sitting	.011							
17. Popliteal Height Sitting	.135							
18. Buttock-Popliteal Length	.112							
19. Buttock-Knee Length	.183							
20. Shoulder-Elbow Length	.013							
21. Forearm-Hand Length	.056							
22. Functional Reach	.009							
23. BideIloid Diameter	.380							
24. Chest Breadth	.400							
25. Waist Breadth	.550							
26. Hip Breadth	.378							
27. Chest Depth	.517							
28. Waist Depth	.593							
29. Buttock Depth	.594							
30. Hip Breadth-Sitting	.472							
31. Neck Circumference	.321							
32. Shoulder Circumference	.463							
33. Chest Circumference				.3	.5	.1.0	0.9715	1.0859
34. Waist Circumference					.533	Bitragion-Menton Arc	.168	
35. Buttock Circumference					.643	Bitragion-Submandibular Arc	.242	
36. Buttock Circumference Sitting					.538	Bitragion-Union Arc	.138	
37. Thigh Circumference					.523	Head Length	.091	
38. Lower Thigh Circumference					.538	Tragion to Wall	.084	
39. Calf Circumference					.380	Nasal Root to Wall	.072	
40. Ankle Circumference					.305	Pronasale to Wall	.060	
41. Scye Circumference					.204	External Canthus to Wall	.094	
42. Axillary Arm Circumference					.386	Head Breadth	.118	
43. Biceps Circumference					.530	Bitragion Diameter	.211	
44. Lower Arm Circumference					.424	Maximum Frontal Diameter	.082	
45. Wrist Circumference					.274	Bizygomatic Diameter	.133	
46. Sleeve Inseam					.160	Bigonial Diameter	.241	
47. Sleeve Length (Spine-Wrist)					.132	Biocular Diameter	.029	
48. Gluteal Arc					.077	Interpupillary Distance	.012	
49. Vertical Trunk Circumference					.057	Interocular Diameter	.014	
50. Interscye					.333	Nasal Root Breadth	.020	
51. Interscye Maximum					.183	Nose Breadth	.110	
52. Foot Length					.269	Lip Length	.016	
53. Foot Breadth					.030	Menton-Subnasale Length	.019	
54. Hand Length					.005	Menton-Vertex Height	.034	
55. Hand Breadth					.054	Head Height (Tragion to Vertex)	.027	
56. Hand Breadth at Thumb					.016	Lip-to-Lip Distance	.077	
57. Thickness at Metacarpal III					.006	Nose Length	.059	
58. Hand Circumference					.097	Nose Protrusion	.011	
59. Hand Circumference at Thumb					.017	Ear Length	.146	
60. Head Circumference					.046	Ear Breadth	.046	
61. Sagittal Arc					.179	Ear Protrusion	.002	
62. Bitragion-Coronal Arc					.051	Subscapular Skinfold	.674	
63. Bitragion-Minimum Frontal Arc					.047	Juxta-Nipple Skinfold	.559	
64. Bitragion-Subnasale Arc					.114	Back of Arm Skinfold	.613	
					.165	Mid/Axillary Line at Umbilious Skin Fold		

## No. 94. Juxta-Nipple Skinfold

	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
	.47	.19	.08 - 1.1	.2	.5	.9	0.5022	-0.1814
1. Weight	.493		33. Chest Circumference	.505	65. Bitragion-Menton Arc	.149		
2. Stature	.005		34. Waist Circumference	.648	66. Bitragion-Submandibular Arc	.238		
3. Tragion Height	.002		35. Buttock Circumference	.537	67. Bitragion-Inion Arc	.093		
4. Cervicale Height	.052		36. Buttock Circumference Sitting	.539	68. Head Length	.043		
5. Suprasternale Height	.049		37. Thigh Circumference	.525	69. Tragion to Wall	.075		
6. Nipple (Chest) Height	.003		38. Lower Thigh Circumference	.376	70. Nasal Root to Wall	.044		
7. Waist height	-.033		39. Calf Circumference	.286	71. Pronasale to Wall	.056		
8. Penale Height	-.067		40. Ankle Circumference	.208	72. External Canthus to Wall	.095		
9. Gluteal Furrow Height	.024		41. Seye Circumference	.351	73. Head Breadth	.118		
10. Croicin Height	-.074		42. Axillary Arm Circumference	.474	74. Bitragion Diameter	.223		
11. Patella Height	.010		43. Biceps Circumference	.382	75. Maximum Frontal Diameter	.082		
12. Sitting Height	-.007		44. Lower Arm Circumference	.246	76. Bizygomatic Diameter	.120		
13. Eye Height Sitting	-.007		45. Wrist Circumference	.163	77. Bigonial Diameter	.219		
14. Shoulder Height Sitting	.087		46. Sleeve Inseam	-.085	78. Biocular Diameter	.011		
15. Elbow Rest Height	.077		47. Sleeve Length (Spine-Wrist)	.076	79. Interpupillary Distance	-.000		
16. Knee Height Sitting	.056		48. Gluteal Arc	-.018	80. Interocular Diameter	-.032		
17. Popliteal Height Sitting	-.106		49. Vertical Trunk Circumference	.347	81. Nasal Root Breadth	-.032		
18. Buttock-Popliteal Length	.159		50. Interscye	.168	82. Nose Breadth	.069		
19. Buttock-Knee Length	.219		51. Interscye Maximum	.261	83. Lip Length	.015		
20. Shoulder-Elbow Length	.029		52. Foot Length	.007	84. Menton-Subnasale Length	-.014		
21. Forearm-Hand Length	-.027		53. Foot Breadth	.001	85. Menton-Vertex Height	-.097		
22. Functional Reach	-.004		54. Hand Length	-.010	86. Head Height (Tragion to Vertex)	-.010		
23. Bideltoid Diameter	.336		55. Hand Breadth	.029	87. Lip-to-Lip Distance	-.111		
24. Chest Breadth	.385		56. Hand Breadth at Thumb	.005	88. Nose Length	-.045		
25. Waist Breadth	.548		57. Thickness at Metacarpal III	.070	89. Nose Protrusion	-.005		
26. Hip Breadth	.401		58. Hand Circumference	.029	90. Ear Length	.149		
27. Chest Depth	.518		59. Hand Circumference at Thumb	.046	91. Ear Breadth	.026		
28. Waist Depth	.607		60. Head Circumference	.119	92. Ear Protrusion	.016		
29. Buttock Depth	.582		61. Sagittal Arc	-.013	93. Subscapular Skinfold	.674		
30. Hip Breadth-Sitting	.474		62. Bitragion-Coronal Arc	.049	94. Juxta-Nipple Skinfold			
31. Neck Circumference	.271		63. Bitragion-Minimum Frontal Arc	.095	95. Back of Arm Skinfold	.569		
32. Shoulder Circumference	.401		64. Bitragion-Subnasale Arc	.145	96. Mid/Axillary Line at Umbilicus Skin Fold	.571		

No.	95. Back of Arm Skinfold	Mean	S. D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
1.	Weight	.357							
2.	Stature	-.016							
3.	Tragion Height	-.030							
4.	Cervicale Height	.024							
5.	Suprasternale Height	.003							
6.	Nipple (Chest) Height	-.026							
7.	Waist height	-.047							
8.	Penile Height	-.033							
9.	Gluteal Furrow Height	.009							
10.	Crotch Height	-.074							
11.	Patella Height	-.010							
12.	Sitting Height	-.028							
13.	Eye Height Sitting	-.049							
14.	Shoulder Height Sitting	.018							
15.	Elbow Rest Height	.014							
16.	Knee Height Sitting	.032							
17.	Popliteal Height Sitting	-.083							
18.	Buttock-Popliteal Length	.085							
19.	Buttock-Knee Length	.156							
20.	Shoulder-Elbow Length	.000							
21.	Forearm-Hand Length	-.014							
22.	Functional Reach	.038							
23.	Bideltoid Diameter	.207							
24.	Chest Breadth	.241							
25.	Waist Breadth	.389							
26.	Hip Breadth	.357							
27.	Chest Depth	.333							
28.	Waist Depth	.402							
29.	Buttock Depth	.477							
30.	Hip Breadth-Sitting	.405							
31.	Neck Circumference	.119							
32.	Shoulder Circumference	.265							
33.	Chest Circumference	.290							
34.	Waist Circumference	.433							
35.	Buttock Circumference	.442							
36.	Buttock Circumference Sitting	.379							
37.	Thigh Circumference	.491							
38.	Lower Thigh Circumference	.313							
39.	Calf Circumference	.282							
40.	Ankle Circumference	.209							
41.	Soye Circumference	.221							
42.	Axillary Arm Circumference	.347							
43.	Biceps Circumference	.298							
44.	Lower Arm Circumference	.173							
45.	Wrist Circumference	.095							
46.	Sleeve Inseam	-.034							
47.	Sleeve Length (Spine-Wrist)	.054							
48.	Gluetral Arc	-.030							
49.	Vertical Trunk Circumference	.215							
50.	Interscye	.047							
51.	Interscye Maximum	.086							
52.	Foot Length	.008							
53.	Foot Breadth	-.027							
54.	Hand Length	-.029							
55.	Hand Breadth	-.040							
56.	Hand Breadth at Thumb	-.039							
57.	Thickness at Metacarpal III	.062							
58.	Hand Circumference	-.053							
59.	Hand Circumference at Thumb	-.041							
60.	Head Circumference	.105							
61.	Sagittal Arc	.069							
62.	Bitragion-Coronal Arc	.093							
63.	Bitragion-Minimum Frontal Arc	.056							
64.	Bitragion-Subnasale Arc	.076							

No.	96. Mid/Axillary Line at Umbilicus Skinfold	Mean	S.D.	Range	2nd Percentile	Median	98th Percentile	Skewness	Kurtosis
1.	Weight	.539				.506	65. Bitracion-Menton Arc	.134	
2.	Stature	.044				.625	66. Bitracion-Submandibular Arc	.251	
3.	Tragion Height	.046				.591	67. Bitracion-Inion Arc	.140	
4.	Cervicale Height	.058				.536	68. Head Length	.038	
5.	Suprasternale Height	.099				.592	69. Tragion to Wall	.157	
6.	Nipple (Chest) Height	.048				.419	70. Nasal Root to Wall	.076	
7.	Waist height	.029				.339	71. Pronasale to Wall	.026	
8.	Penale Height	.035				.221	72. External Canthus to Wall	.053	
9.	Gluteal Furrow Height	.026				.364	73. Head Breadth	.092	
10.	Crotch Height	.007				.610	74. Bitracion Diameter	.153	
11.	Patella Height	.033				.449	75. Maximum Frontal Diameter	.132	
12.	Sitting Height	-.002				.318	76. Bzygomatic Diameter	.272	
13.	Eye Height Sitting	-.004				.195	77. Biconial Diameter	.324	
14.	Shoulder Height Sitting	.023				-.058	78. Biocular Diameter	.029	
15.	Elbow Rest Height	.091				.165	79. Interpupillary Distance	-.078	
16.	Knee Height Sitting	.010				-.015	80. Interocular Diameter	-.117	
17.	Popliteal Height Sitting	.029				.398	81. Nasal Root Breadth	-.013	
18.	Buttock-Popliteal Length	.143				.225	82. Nose Breadth	-.003	
19.	Buttock-Knee Length	.207				.371	83. Lip Length	-.097	
20.	Shoulder-Elbow Length	-.072				.045	84. Menton-Subnasale Length	-.076	
21.	Forearm-Hand Length	.013				-.141	85. Menton-Vertex Height	-.023	
22.	Functional Reach	.124				-.122	86. Head Height (Tragion to Vertex)	-.051	
23.	Bideltoid Diameter	.330				-.073	87. Lip-to-Lip Distance	-.076	
24.	Chest Breadth	.375				-.036	88. Nose Length	-.125	
25.	Waist Breadth	.532				.053	89. Nose Protrusion	-.035	
26.	Hip Breadth	.454				-.085	90. Ear Length	.088	
27.	Chest Depth	.442				.040	91. Ear Breadth	.024	
28.	Waist Depth	.550				.138	92. Ear Protrusion	-.057	
29.	Buttock Depth	.524				.148	93. Subscapular Skinfold	.613	
30.	Hip Breadth-Sitting	.389				.098	94. Juxta-Nipple Skinfold	.571	
31.	Neck Circumference	.274				-.011	95. Back of Arm Skinfold	.481	
32.	Shoulder Circumference	.525				.070	96. Mid/Axillary Line at Umbilicus Skin Fold		

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