

Table B-1: Craniofacial anthropometric norms on the head, face, orbit, lips and mouth of the Malay children age 7 and 12 years old

Landmark	Gender	Age		Diff. (mm)
		7	12	
Head width (eu-eu)	Male	142.62 ± 5.15	146.36 ± 5.39	3.74
	Female	138.76 ± 4.87	145.28 ± 4.87	6.52
Head length (g-op)	Male	175.20 ± 9.33	179.80 ± 9.21	4.60
	Female	169.34 ± 7.28	179.66 ± 14.27	10.32
Head height (v-n)	Male	86.74 ± 9.56	95.12 ± 11.92	8.38
	Female	86.58 ± 8.26	91.06 ± 8.09	4.48
Craniofacial height (v-gn)	Male	190.72 ± 5.60	208.52 ± 2.09	7.80
	Female	189.02 ± 2.31	200.56 ± 5.19	11.54
Head circumference (on-op)	Male	512.90 ± 3.28	537.92 ± 3.12	25.02
	Female	496.06 ± 5.97	532.62 ± 2.42	36.56
Face width (zy-zy)	Male	116.72 ± 5.43	127.56 ± 8.34	10.84
	Female	113.12 ± 4.96	126.52 ± 8.48	13.40
Mandible width (go-go)	Male	94.08 ± 5.67	103.00 ± 7.45	8.92
	Female	90.82 ± 4.83	98.98 ± 7.65	8.16
Face height (n-gn)	Male	100.54 ± 6.03	110.80 ± 6.88	10.60
	Female	97.58 ± 3.90	108.83 ± 5.51	11.25
Upper face height (n-sto)	Male	65.00 ± 4.67	72.10 ± 5.33	7.10
	Female	63.37 ± 3.40	70.26 ± 3.83	6.89
Mandible height (sto-gn)	Male	36.43 ± 2.94	41.55 ± 4.38	5.12
	Female	35.59 ± 3.59	40.80 ± 3.67	5.21
Maxillary depth, Lt (t-sn)	Male	107.58 ± 4.38	119.08 ± 6.30	11.56
	Female	105.02 ± 4.66	115.99 ± 5.42	10.97
Mandibular depth, Lt (t-gn)	Male	115.28 ± 5.21	130.14 ± 7.18	14.86
	Female	111.86 ± 4.69	126.47 ± 7.25	14.61
Intercanthal width (en-en)	Male	32.41 ± 2.04	34.48 ± 2.13	2.07
	Female	31.70 ± 2.19	33.88 ± 2.54	2.18
Binocular width (ex-ex)	Male	92.74 ± 3.89	101.02 ± 4.00	8.28
	Female	89.74 ± 4.37	99.38 ± 4.21	9.54
Eye fissure length Lt (ex-en)	Male	33.46 ± 1.88	35.89 ± 1.96	2.43
	Female	32.62 ± 2.01	35.60 ± 2.10	2.98
Eye fissure height Lt, (ps-pi)	Male	9.65 ± 0.83	8.90 ± 0.74	0.75
	Female	9.69 ± 0.98	9.10 ± 0.85	0.59
Nose width (al-al)	Male	32.48 ± 1.52	36.13 ± 2.61	3.65
	Female	31.66 ± 1.71	35.18 ± 2.38	3.52
Nose height (n-sn)	Male	45.02 ± 3.20	50.96 ± 4.80	5.94
	Female	44.52 ± 2.52	51.29 ± 2.73	6.77
Nasal tip protrusion (sn-prn)	Male	11.90 ± 1.30	14.24 ± 2.30	2.34
	Female	11.88 ± 1.40	14.47 ± 1.25	2.59

Table B-1: Craniofacial anthropometric norms on the head, face, orbit, lips and mouth of the Malay children age 7 and 12 years old (Continued)

Landmark	Gender	Age		Diff. (mm)
		7	12	
Upper lip height (sn-sto)	Male	20.06 ± 1.10	21.39 ± 1.60	1.33
	Female	18.30 ± 1.71	19.90 ± 1.63	1.60
Mouth width (ch-ch)	Male	39.75 ± 2.23	45.17 ± 2.72	5.42
	Female	38.57 ± 2.67	44.07 ± 2.94	5.50
Lower lip height (sto-sl)	Male	14.34 ± 1.35	16.45 ± 1.61	2.11
	Female	13.98 ± 1.38	15.73 ± 1.28	1.75

Table B-2 : Proportion indices of Craniofacial anthropometric norms on the head, face, orbit, lips and mouth of the Malay children age 7 and 12-year-old

Proportion indices	Gender	Age		Diff. (mm)
		7	12	
Cephalic Index (eu-eu x 100/g-op)	Male	81.61 ± 4.95	81.92 ± 4.98	0.31
	Female	82.06 ± 4.05	82.20 ± 5.74	0.14
Head craniofacial height Index (v-n x 100/v-gn)	Male	45.47 ± 4.59	45.57 ± 4.74	0.10
	Female	45.77 ± 3.10	45.83 ± 4.01	0.06
Facial Index (n-gn x 100/zy-zy)	Male	86.22 ± 5.26	87.06 ± 5.71	0.84
	Female	86.39 ± 4.67	86.29 ± 5.92	0.10
Mandibular Index (sto-gn x 100/go-go)	Male	38.78 ± 3.03	40.50 ± 4.81	1.72
	Female	39.32 ± 4.10	41.43 ± 4.49	2.11
Upper face-face height index (n-sto x 100/n-gn)	Male	64.66 ± 2.81	65.08 ± 2.98	0.42
	Female	64.96 ± 2.68	64.98 ± 2.21	0.02
Mandible-upper face height Index (sto-gn x 100/n-gn)	Male	36.24 ± 1.98	37.50 ± 3.14	1.26
	Female	36.46 ± 2.46	37.48 ± 2.65	1.02
Mandible-face width Index (go-go x 100/zy-zy)	Male	80.68 ± 4.69	80.81 ± 4.14	0.13
	Female	80.33 ± 3.65	78.31 ± 4.74	2.02
Middle-lower third face depth Index (t-gn x 100/t-gn)	Male	93.37 ± 2.60	91.54 ± 2.46	1.83
	Female	93.90 ± 2.17	91.79 ± 2.47	2.11
Intercanthal Index (en-en x 100/ex-ex)	Male	34.96 ± 1.82	34.14 ± 1.83	0.82
	Female	35.34 ± 2.02	34.13 ± 2.18	1.21
Eye fissure Index (ps-pi x 100/ex-en)	Male	28.89 ± 2.59	24.99 ± 2.01	3.90
	Female	29.78 ± 3.21	25.91 ± 2.73	3.87
Nasal Index (al-al x 100/n-sn)	Male	72.45 ± 5.67	71.51 ± 8.39	0.94
	Female	71.28 ± 4.80	68.82 ± 6.32	2.46
Nasal tip protrusion-nose width Index (sn-prn x 100/al-al)	Male	36.69 ± 3.93	39.52 ± 6.57	2.83
	Female	37.54 ± 4.09	41.26 ± 3.95	3.72
Nose-face height Index (n-sn x 100/n-gn)	Male	44.83 ± 2.75	45.94 ± 2.53	1.11
	Female	45.65 ± 2.46	47.19 ± 2.61	1.54

Table B-2 : Proportion indices of Craniofacial anthropometric norms on the head, face, orbit, lips and mouth of the Malay children age 7 and 12-year-old (Continued)

Proportion indices	Gender	Age		Diff. (mm)
		7	12	
Nose-face width index (al-al x 100/zy-zy)	Male	27.87 ± 2.75	28.40 ± 2.53	0.53
	Female	28.03 ± 2.46	28.24 ± 2.61	0.31
Upper pip height-mouth width index (sn-sto x 100/ch-ch)	Male	50.60 ± 3.37	47.51 ± 4.38	3.09
	Female	47.61 ± 4.91	45.32 ± 4.47	2.29
Lower-upper lip height Index (sto-sl x 100/sn-sto)	Male	71.59 ± 6.97	77.37 ± 9.69	5.78
	Female	76.77 ± 7.95	79.34 ± 6.82	2.57
Mouth-face width Index (ch-ch x 100/zy-zy)	Male	34.12 ± 2.38	35.54 ± 3.02	1.42
	Female	34.11 ± 2.16	34.90 ± 2.28	0.79