

The International Newborn Standards

INTERGROWTH-21st



Head circumference (Boys)



Gestational age (weeks+days)	z scores						
	-3	-2	-1	0	1	2	3
33+0	26.46	28.07	29.50	30.88	32.29	33.81	35.52
33+1	26.57	28.17	29.60	30.97	32.37	33.88	35.58
33+2	26.68	28.27	29.69	31.05	32.45	33.95	35.64
33+3	26.79	28.37	29.78	31.14	32.53	34.02	35.70
33+4	26.89	28.47	29.88	31.22	32.61	34.09	35.76
33+5	27.00	28.57	29.97	31.31	32.68	34.16	35.83
33+6	27.10	28.66	30.06	31.39	32.76	34.23	35.89
34+0	27.21	28.76	30.14	31.47	32.83	34.30	35.95
34+1	27.31	28.85	30.23	31.55	32.91	34.36	36.00
34+2	27.41	28.94	30.32	31.63	32.98	34.43	36.06
34+3	27.51	29.04	30.40	31.71	33.05	34.50	36.12
34+4	27.60	29.13	30.49	31.79	33.13	34.56	36.18
34+5	27.70	29.22	30.57	31.87	33.20	34.63	36.24
34+6	27.80	29.31	30.65	31.94	33.27	34.69	36.29
35+0	27.89	29.39	30.74	32.02	33.34	34.76	36.35
35+1	27.99	29.48	30.82	32.10	33.41	34.82	36.41
35+2	28.08	29.57	30.90	32.17	33.48	34.88	36.46
35+3	28.17	29.65	30.98	32.24	33.55	34.94	36.52
35+4	28.26	29.74	31.06	32.32	33.62	35.01	36.57
35+5	28.35	29.82	31.14	32.39	33.68	35.07	36.63
35+6	28.44	29.90	31.21	32.46	33.75	35.13	36.68
36+0	28.53	29.99	31.29	32.53	33.82	35.19	36.74
36+1	28.62	30.07	31.36	32.61	33.88	35.25	36.79
36+2	28.70	30.15	31.44	32.68	33.95	35.31	36.85
36+3	28.79	30.23	31.51	32.75	34.01	35.37	36.90
36+4	28.87	30.31	31.59	32.81	34.07	35.43	36.95
36+5	28.96	30.38	31.66	32.88	34.14	35.48	37.00
36+6	29.04	30.46	31.73	32.95	34.20	35.54	37.05
37+0	29.12	30.54	31.81	33.02	34.26	35.60	37.11
37+1	29.20	30.61	31.88	33.08	34.33	35.66	37.16
37+2	29.28	30.69	31.95	33.15	34.39	35.71	37.21
37+3	29.36	30.76	32.02	33.22	34.45	35.77	37.26
37+4	29.44	30.84	32.09	33.28	34.51	35.83	37.31
37+5	29.52	30.91	32.15	33.34	34.57	35.88	37.36
37+6	29.60	30.98	32.22	33.41	34.63	35.94	37.41
38+0	29.67	31.05	32.29	33.47	34.69	35.99	37.46
38+1	29.75	31.13	32.36	33.53	34.75	36.04	37.51
38+2	29.82	31.20	32.42	33.60	34.80	36.10	37.56
38+3	29.90	31.27	32.49	33.66	34.86	36.15	37.61

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Gestational age (weeks+days)	z scores						
	-3	-2	-1	0	1	2	3
38+4	29.97	31.34	32.56	33.72	34.92	36.20	37.65
38+5	30.05	31.40	32.62	33.78	34.98	36.26	37.70
38+6	30.12	31.47	32.68	33.84	35.03	36.31	37.75
39+0	30.19	31.54	32.75	33.90	35.09	36.36	37.80
39+1	30.26	31.61	32.81	33.96	35.14	36.41	37.84
39+2	30.33	31.67	32.87	34.02	35.20	36.46	37.89
39+3	30.40	31.74	32.94	34.08	35.26	36.52	37.94
39+4	30.47	31.81	33.00	34.14	35.31	36.57	37.98
39+5	30.54	31.87	33.06	34.20	35.36	36.62	38.03
39+6	30.61	31.94	33.12	34.25	35.42	36.67	38.08
40+0	30.68	32.00	33.18	34.31	35.47	36.72	38.12
40+1	30.75	32.06	33.24	34.37	35.53	36.77	38.17
40+2	30.81	32.13	33.30	34.42	35.58	36.82	38.21
40+3	30.88	32.19	33.36	34.48	35.63	36.87	38.26
40+4	30.95	32.25	33.42	34.54	35.68	36.91	38.30
40+5	31.01	32.31	33.48	34.59	35.74	36.96	38.35
40+6	31.08	32.38	33.54	34.65	35.79	37.01	38.39
41+0	31.14	32.44	33.59	34.70	35.84	37.06	38.43
41+1	31.21	32.50	33.65	34.75	35.89	37.11	38.48
41+2	31.27	32.56	33.71	34.81	35.94	37.15	38.52
41+3	31.33	32.62	33.76	34.86	35.99	37.20	38.57
41+4	31.40	32.68	33.82	34.92	36.04	37.25	38.61
41+5	31.46	32.73	33.88	34.97	36.09	37.30	38.65
41+6	31.52	32.79	33.93	35.02	36.14	37.34	38.70
42+0	31.58	32.85	33.99	35.07	36.19	37.39	38.74
42+1	31.64	32.91	34.04	35.13	36.24	37.43	38.78
42+2	31.70	32.97	34.10	35.18	36.29	37.48	38.82
42+3	31.76	33.02	34.15	35.23	36.34	37.53	38.87
42+4	31.82	33.08	34.20	35.28	36.39	37.57	38.91
42+5	31.88	33.14	34.26	35.33	36.43	37.62	38.95
42+6	31.94	33.19	34.31	35.38	36.48	37.66	38.99