

The International Newborn Standards

INTERGROWTH-21st



Head circumference (Girls)



Gestational age (weeks+days)	z scores						
	-3	-2	-1	0	1	2	3
33+0	26.15	27.75	29.14	30.46	31.83	33.33	35.07
33+1	26.27	27.86	29.24	30.55	31.92	33.41	35.14
33+2	26.38	27.96	29.34	30.64	32.00	33.48	35.20
33+3	26.49	28.07	29.44	30.73	32.08	33.55	35.27
33+4	26.61	28.17	29.53	30.82	32.16	33.63	35.33
33+5	26.71	28.27	29.62	30.91	32.24	33.70	35.39
33+6	26.82	28.37	29.72	30.99	32.32	33.77	35.45
34+0	26.93	28.47	29.81	31.08	32.39	33.84	35.51
34+1	27.04	28.57	29.90	31.16	32.47	33.90	35.57
34+2	27.14	28.66	29.99	31.24	32.55	33.97	35.63
34+3	27.24	28.76	30.07	31.32	32.62	34.04	35.69
34+4	27.34	28.85	30.16	31.40	32.69	34.11	35.75
34+5	27.44	28.94	30.25	31.48	32.77	34.17	35.80
34+6	27.54	29.03	30.33	31.56	32.84	34.23	35.86
35+0	27.63	29.12	30.41	31.64	32.91	34.30	35.91
35+1	27.73	29.21	30.49	31.71	32.98	34.36	35.97
35+2	27.82	29.29	30.57	31.79	33.04	34.42	36.02
35+3	27.92	29.38	30.65	31.86	33.11	34.48	36.08
35+4	28.01	29.46	30.73	31.93	33.18	34.54	36.13
35+5	28.10	29.55	30.81	32.00	33.24	34.60	36.18
35+6	28.19	29.63	30.88	32.07	33.31	34.66	36.23
36+0	28.27	29.71	30.96	32.14	33.37	34.72	36.28
36+1	28.36	29.79	31.03	32.21	33.44	34.78	36.33
36+2	28.44	29.87	31.11	32.28	33.50	34.83	36.38
36+3	28.53	29.94	31.18	32.35	33.56	34.89	36.43
36+4	28.61	30.02	31.25	32.41	33.62	34.94	36.48
36+5	28.69	30.10	31.32	32.48	33.68	35.00	36.53
36+6	28.77	30.17	31.39	32.54	33.74	35.05	36.58
37+0	28.85	30.24	31.46	32.61	33.80	35.11	36.62
37+1	28.93	30.32	31.52	32.67	33.86	35.16	36.67
37+2	29.01	30.39	31.59	32.73	33.91	35.21	36.71
37+3	29.08	30.46	31.66	32.79	33.97	35.26	36.76
37+4	29.16	30.53	31.72	32.85	34.03	35.31	36.80
37+5	29.23	30.60	31.78	32.91	34.08	35.36	36.85
37+6	29.30	30.66	31.85	32.97	34.13	35.41	36.89
38+0	29.37	30.73	31.91	33.03	34.19	35.46	36.93
38+1	29.45	30.80	31.97	33.08	34.24	35.51	36.98
38+2	29.52	30.86	32.03	33.14	34.29	35.55	37.02
38+3	29.58	30.92	32.09	33.20	34.34	35.60	37.06

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	-3	-2	-1	0	1	2	3
38+4	29.65	30.99	32.15	33.25	34.39	35.65	37.10
38+5	29.72	31.05	32.21	33.30	34.44	35.69	37.14
38+6	29.79	31.11	32.27	33.36	34.49	35.74	37.18
39+0	29.85	31.17	32.32	33.41	34.54	35.78	37.22
39+1	29.92	31.23	32.38	33.46	34.59	35.82	37.26
39+2	29.98	31.29	32.43	33.51	34.64	35.87	37.29
39+3	30.04	31.35	32.49	33.56	34.68	35.91	37.33
39+4	30.10	31.41	32.54	33.61	34.73	35.95	37.37
39+5	30.17	31.46	32.59	33.66	34.78	35.99	37.41
39+6	30.23	31.52	32.65	33.71	34.82	36.03	37.44
40+0	30.29	31.57	32.70	33.76	34.86	36.07	37.48
40+1	30.34	31.63	32.75	33.81	34.91	36.11	37.51
40+2	30.40	31.68	32.80	33.85	34.95	36.15	37.55
40+3	30.46	31.74	32.85	33.90	34.99	36.19	37.58
40+4	30.52	31.79	32.90	33.95	35.04	36.23	37.62
40+5	30.57	31.84	32.94	33.99	35.08	36.27	37.65
40+6	30.63	31.89	32.99	34.04	35.12	36.30	37.68
41+0	30.68	31.94	33.04	34.08	35.16	36.34	37.72
41+1	30.73	31.99	33.09	34.12	35.20	36.38	37.75
41+2	30.79	32.04	33.13	34.16	35.24	36.41	37.78
41+3	30.84	32.09	33.18	34.21	35.28	36.45	37.81
41+4	30.89	32.14	33.22	34.25	35.32	36.48	37.84
41+5	30.94	32.18	33.26	34.29	35.35	36.52	37.87
41+6	30.99	32.23	33.31	34.33	35.39	36.55	37.90
42+0	31.04	32.28	33.35	34.37	35.43	36.59	37.93
42+1	31.09	32.32	33.39	34.41	35.46	36.62	37.96
42+2	31.14	32.37	33.43	34.45	35.50	36.65	37.99
42+3	31.18	32.41	33.48	34.49	35.54	36.68	38.02
42+4	31.23	32.45	33.52	34.52	35.57	36.72	38.05
42+5	31.28	32.50	33.56	34.56	35.60	36.75	38.07
42+6	31.32	32.54	33.60	34.60	35.64	36.78	38.10