

# International Newborn Size References for Very Preterm Infants



## Head Circumference (cm) Girls

INTERGROWTH-21<sup>st</sup>



Gestational age (weeks+days)	z-scores (Standard Deviations)						
	-3	-2	-1	0	1	2	3
24+0	17.4	19.0	20.5	22.1	23.6	25.2	26.8
24+1	17.5	19.1	20.7	22.2	23.8	25.3	26.9
24+2	17.7	19.2	20.8	22.3	23.9	25.5	27.0
24+3	17.8	19.4	20.9	22.5	24.0	25.6	27.2
24+4	17.9	19.5	21.0	22.6	24.2	25.7	27.3
24+5	18.0	19.6	21.2	22.7	24.3	25.8	27.4
24+6	18.2	19.7	21.3	22.9	24.4	26.0	27.5
25+0	18.3	19.9	21.4	23.0	24.5	26.1	27.7
25+1	18.4	20.0	21.5	23.1	24.7	26.2	27.8
25+2	18.6	20.1	21.7	23.2	24.8	26.4	27.9
25+3	18.7	20.2	21.8	23.4	24.9	26.5	28.0
25+4	18.8	20.4	21.9	23.5	25.0	26.6	28.2
25+5	18.9	20.5	22.1	23.6	25.2	26.7	28.3
25+6	19.1	20.6	22.2	23.7	25.3	26.9	28.4
26+0	19.2	20.7	22.3	23.9	25.4	27.0	28.5
26+1	19.3	20.9	22.4	24.0	25.6	27.1	28.7
26+2	19.4	21.0	22.6	24.1	25.7	27.2	28.8
26+3	19.6	21.1	22.7	24.2	25.8	27.4	28.9
26+4	19.7	21.3	22.8	24.4	25.9	27.5	29.1
26+5	19.8	21.4	22.9	24.5	26.1	27.6	29.2
26+6	19.9	21.5	23.1	24.6	26.2	27.7	29.3
27+0	20.1	21.6	23.2	24.8	26.3	27.9	29.4
27+1	20.2	21.8	23.3	24.9	26.4	28.0	29.6
27+2	20.3	21.9	23.4	25.0	26.6	28.1	29.7
27+3	20.5	22.0	23.6	25.1	26.7	28.3	29.8
27+4	20.6	22.1	23.7	25.3	26.8	28.4	29.9
27+5	20.7	22.3	23.8	25.4	26.9	28.5	30.1
27+6	20.8	22.4	24.0	25.5	27.1	28.6	30.2
28+0	21.0	22.5	24.1	25.6	27.2	28.8	30.3
28+1	21.1	22.6	24.2	25.8	27.3	28.9	30.4
28+2	21.2	22.8	24.3	25.9	27.5	29.0	30.6
28+3	21.3	22.9	24.5	26.0	27.6	29.1	30.7
28+4	21.5	23.0	24.6	26.1	27.7	29.3	30.8

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	-3	-2	-1	0	1	2	3
28+5	21.6	23.2	24.7	26.3	27.8	29.4	31.0
28+6	21.7	23.3	24.8	26.4	28.0	29.5	31.1
29+0	21.8	23.4	25.0	26.5	28.1	29.6	31.2
29+1	22.0	23.5	25.1	26.7	28.2	29.8	31.3
29+2	22.1	23.7	25.2	26.8	28.3	29.9	31.5
29+3	22.2	23.8	25.3	26.9	28.5	30.0	31.6
29+4	22.4	23.9	25.5	27.0	28.6	30.2	31.7
29+5	22.5	24.0	25.6	27.2	28.7	30.3	31.8
29+6	22.6	24.2	25.7	27.3	28.8	30.4	32.0
30+0	22.7	24.3	25.9	27.4	29.0	30.5	32.1
30+1	22.9	24.4	26.0	27.5	29.1	30.7	32.2
30+2	23.0	24.5	26.1	27.7	29.2	30.8	32.3
30+3	23.1	24.7	26.2	27.8	29.4	30.9	32.5
30+4	23.2	24.8	26.4	27.9	29.5	31.0	32.6
30+5	23.4	24.9	26.5	28.0	29.6	31.2	32.7
30+6	23.5	25.1	26.6	28.2	29.7	31.3	32.9
31+0	23.6	25.2	26.7	28.3	29.9	31.4	33.0
31+1	23.8	25.3	26.9	28.4	30.0	31.6	33.1
31+2	23.9	25.4	27.0	28.6	30.1	31.7	33.2
31+3	24.0	25.6	27.1	28.7	30.2	31.8	33.4
31+4	24.1	25.7	27.3	28.8	30.4	31.9	33.5
31+5	24.3	25.8	27.4	28.9	30.5	32.1	33.6
31+6	24.4	25.9	27.5	29.1	30.6	32.2	33.7
32+0	24.5	26.1	27.6	29.2	30.8	32.3	33.9
32+1	24.6	26.2	27.8	29.3	30.9	32.4	34.0
32+2	24.8	26.3	27.9	29.4	31.0	32.6	34.1
32+3	24.9	26.5	28.0	29.6	31.1	32.7	34.3
32+4	25.0	26.6	28.1	29.7	31.3	32.8	34.4
32+5	25.1	26.7	28.3	29.8	31.4	32.9	34.5
32+6	25.3	26.8	28.4	30.0	31.5	33.1	34.6