# Head circumference-for-age GIRLS
**Birth to 5 years (percentiles)**

**World Health Organization**

| Year: Month | Month | L | M | S | SD | Percentiles (head circumference in cm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1st | 3rd | 5th | 15th | 25th | 50th | 75th | 85th | 95th | 97th | 99th |
| 0: 0 | 0 | 1 | 33.8787 | 0.03496 | 1.1844 | 31.1 | 31.7 | 31.9 | 32.7 | 33.1 | 33.9 | 34.7 | 35.1 | 35.8 | 36.1 | 36.6 |
| 0: 1 | 1 | 1 | 36.5463 | 0.03210 | 1.1731 | 33.8 | 34.3 | 34.6 | 35.3 | 35.8 | 36.5 | 37.3 | 37.8 | 38.5 | 38.8 | 39.3 |
| 0: 2 | 2 | 1 | 38.2521 | 0.03168 | 1.2118 | 35.4 | 36.0 | 36.3 | 37.0 | 37.4 | 38.3 | 39.1 | 39.5 | 40.2 | 40.5 | 41.1 |
| 0: 3 | 3 | 1 | 39.5328 | 0.03140 | 1.2413 | 36.6 | 37.2 | 37.5 | 38.2 | 38.7 | 39.5 | 40.4 | 40.8 | 41.6 | 41.9 | 42.4 |
| 0: 4 | 4 | 1 | 40.5817 | 0.03119 | 1.2657 | 37.6 | 38.2 | 38.5 | 39.3 | 39.7 | 40.6 | 41.4 | 41.9 | 42.7 | 43.0 | 43.5 |
| 0: 5 | 5 | 1 | 41.4590 | 0.03102 | 1.2861 | 38.5 | 39.0 | 39.3 | 40.1 | 40.6 | 41.5 | 42.3 | 42.8 | 43.6 | 43.9 | 44.5 |
| 0: 6 | 6 | 1 | 42.1995 | 0.03087 | 1.3027 | 39.2 | 39.7 | 40.1 | 40.8 | 41.3 | 42.2 | 43.1 | 43.5 | 44.3 | 44.6 | 45.2 |
| 0: 7 | 7 | 1 | 42.8290 | 0.03075 | 1.3170 | 39.8 | 40.4 | 40.7 | 41.5 | 41.9 | 42.8 | 43.7 | 44.2 | 45.0 | 45.3 | 45.9 |
| 0: 8 | 8 | 1 | 43.3671 | 0.03063 | 1.3283 | 40.3 | 40.9 | 41.2 | 42.0 | 42.5 | 43.4 | 44.3 | 44.7 | 45.6 | 45.9 | 46.5 |
| 0: 9 | 9 | 1 | 43.8300 | 0.03053 | 1.3381 | 40.7 | 41.3 | 41.6 | 42.4 | 42.9 | 43.8 | 44.7 | 45.2 | 46.0 | 46.3 | 46.9 |
| 0:10 | 10 | 1 | 44.2319 | 0.03044 | 1.3464 | 41.1 | 41.7 | 42.0 | 42.8 | 43.3 | 44.2 | 45.1 | 45.6 | 46.4 | 46.8 | 47.4 |
| 0:11 | 11 | 1 | 44.5844 | 0.03035 | 1.3531 | 41.4 | 42.0 | 42.4 | 43.2 | 43.7 | 44.6 | 45.5 | 46.0 | 46.8 | 47.1 | 47.7 |
| 1: 0 | 12 | 1 | 44.8965 | 0.03027 | 1.3590 | 41.7 | 42.3 | 42.7 | 43.5 | 44.0 | 44.9 | 45.8 | 46.3 | 47.1 | 47.5 | 48.1 |
| 1: 1 | 13 | 1 | 45.1752 | 0.03019 | 1.3638 | 42.0 | 42.6 | 42.9 | 43.8 | 44.3 | 45.2 | 46.1 | 46.6 | 47.4 | 47.7 | 48.3 |
| 1: 2 | 14 | 1 | 45.4265 | 0.03012 | 1.3683 | 42.2 | 42.9 | 43.2 | 44.0 | 44.5 | 45.4 | 46.3 | 46.8 | 47.7 | 48.0 | 48.6 |
| 1: 3 | 15 | 1 | 45.6551 | 0.03006 | 1.3724 | 42.5 | 43.1 | 43.4 | 44.2 | 44.7 | 45.7 | 46.6 | 47.1 | 47.9 | 48.2 | 48.8 |
| 1: 4 | 16 | 1 | 45.8650 | 0.02999 | 1.3755 | 42.7 | 43.3 | 43.6 | 44.4 | 44.9 | 45.9 | 46.8 | 47.3 | 48.1 | 48.5 | 49.1 |
| 1: 5 | 17 | 1 | 46.0598 | 0.02993 | 1.3786 | 42.9 | 43.5 | 43.8 | 44.6 | 45.1 | 46.1 | 47.0 | 47.5 | 48.3 | 48.7 | 49.3 |
| 1: 6 | 18 | 1 | 46.2424 | 0.02987 | 1.3813 | 43.0 | 43.6 | 44.0 | 44.8 | 45.3 | 46.2 | 47.2 | 47.7 | 48.5 | 48.8 | 49.5 |
| 1: 7 | 19 | 1 | 46.4152 | 0.02982 | 1.3841 | 43.2 | 43.8 | 44.1 | 45.0 | 45.5 | 46.4 | 47.3 | 47.8 | 48.7 | 49.0 | 49.6 |
| 1: 8 | 20 | 1 | 46.5801 | 0.02977 | 1.3867 | 43.4 | 44.0 | 44.3 | 45.1 | 45.6 | 46.6 | 47.5 | 48.0 | 48.9 | 49.2 | 49.8 |
| 1: 9 | 21 | 1 | 46.7384 | 0.02972 | 1.3891 | 43.5 | 44.1 | 44.5 | 45.3 | 45.8 | 46.7 | 47.7 | 48.2 | 49.0 | 49.4 | 50.0 |
| 1:10 | 22 | 1 | 46.8913 | 0.02967 | 1.3913 | 43.7 | 44.3 | 44.6 | 45.4 | 46.0 | 46.9 | 47.8 | 48.3 | 49.2 | 49.5 | 50.1 |
| 1:11 | 23 | 1 | 47.0391 | 0.02962 | 1.3933 | 43.8 | 44.4 | 44.7 | 45.6 | 46.1 | 47.0 | 48.0 | 48.5 | 49.3 | 49.7 | 50.3 |
| 2: 0 | 24 | 1 | 47.1822 | 0.02957 | 1.3952 | 43.9 | 44.6 | 44.9 | 45.7 | 46.2 | 47.2 | 48.1 | 48.6 | 49.5 | 49.8 | 50.4 |

**WHO Child Growth Standards**

# Head circumference-for-age GIRLS

**Birth to 5 years (percentiles)**

World Health Organization

| Year: Month | Month | L | M | S | SD | Percentiles (head cirucmference in cm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1st | 3rd | 5th | 15th | 25th | 50th | 75th | 85th | 95th | 97th | 99th |
| 2: 1 | 25 | 1 | 47.3204 | 0.02953 | 1.3974 | 44.1 | 44.7 | 45.0 | 45.9 | 46.4 | 47.3 | 48.3 | 48.8 | 49.6 | 49.9 | 50.6 |
| 2: 2 | 26 | 1 | 47.4536 | 0.02949 | 1.3994 | 44.2 | 44.8 | 45.2 | 46.0 | 46.5 | 47.5 | 48.4 | 48.9 | 49.8 | 50.1 | 50.7 |
| 2: 3 | 27 | 1 | 47.5817 | 0.02945 | 1.4013 | 44.3 | 44.9 | 45.3 | 46.1 | 46.6 | 47.6 | 48.5 | 49.0 | 49.9 | 50.2 | 50.8 |
| 2: 4 | 28 | 1 | 47.7045 | 0.02941 | 1.4030 | 44.4 | 45.1 | 45.4 | 46.3 | 46.8 | 47.7 | 48.7 | 49.2 | 50.0 | 50.3 | 51.0 |
| 2: 5 | 29 | 1 | 47.8219 | 0.02937 | 1.4045 | 44.6 | 45.2 | 45.5 | 46.4 | 46.9 | 47.8 | 48.8 | 49.3 | 50.1 | 50.5 | 51.1 |
| 2: 6 | 30 | 1 | 47.9340 | 0.02933 | 1.4059 | 44.7 | 45.3 | 45.6 | 46.5 | 47.0 | 47.9 | 48.9 | 49.4 | 50.2 | 50.6 | 51.2 |
| 2: 7 | 31 | 1 | 48.0410 | 0.02929 | 1.4071 | 44.8 | 45.4 | 45.7 | 46.6 | 47.1 | 48.0 | 49.0 | 49.5 | 50.4 | 50.7 | 51.3 |
| 2: 8 | 32 | 1 | 48.1432 | 0.02926 | 1.4087 | 44.9 | 45.5 | 45.8 | 46.7 | 47.2 | 48.1 | 49.1 | 49.6 | 50.5 | 50.8 | 51.4 |
| 2: 9 | 33 | 1 | 48.2408 | 0.02922 | 1.4096 | 45.0 | 45.6 | 45.9 | 46.8 | 47.3 | 48.2 | 49.2 | 49.7 | 50.6 | 50.9 | 51.5 |
| 2:10 | 34 | 1 | 48.3343 | 0.02919 | 1.4109 | 45.1 | 45.7 | 46.0 | 46.9 | 47.4 | 48.3 | 49.3 | 49.8 | 50.7 | 51.0 | 51.6 |
| 2:11 | 35 | 1 | 48.4239 | 0.02915 | 1.4116 | 45.1 | 45.8 | 46.1 | 47.0 | 47.5 | 48.4 | 49.4 | 49.9 | 50.7 | 51.1 | 51.7 |
| 3: 0 | 36 | 1 | 48.5099 | 0.02912 | 1.4126 | 45.2 | 45.9 | 46.2 | 47.0 | 47.6 | 48.5 | 49.5 | 50.0 | 50.8 | 51.2 | 51.8 |
| 3: 1 | 37 | 1 | 48.5926 | 0.02909 | 1.4136 | 45.3 | 45.9 | 46.3 | 47.1 | 47.6 | 48.6 | 49.5 | 50.1 | 50.9 | 51.3 | 51.9 |
| 3: 2 | 38 | 1 | 48.6722 | 0.02906 | 1.4144 | 45.4 | 46.0 | 46.3 | 47.2 | 47.7 | 48.7 | 49.6 | 50.1 | 51.0 | 51.3 | 52.0 |
| 3: 3 | 39 | 1 | 48.7489 | 0.02903 | 1.4152 | 45.5 | 46.1 | 46.4 | 47.3 | 47.8 | 48.7 | 49.7 | 50.2 | 51.1 | 51.4 | 52.0 |
| 3: 4 | 40 | 1 | 48.8228 | 0.02900 | 1.4159 | 45.5 | 46.2 | 46.5 | 47.4 | 47.9 | 48.8 | 49.8 | 50.3 | 51.2 | 51.5 | 52.1 |
| 3: 5 | 41 | 1 | 48.8941 | 0.02897 | 1.4165 | 45.6 | 46.2 | 46.6 | 47.4 | 47.9 | 48.9 | 49.8 | 50.4 | 51.2 | 51.6 | 52.2 |
| 3: 6 | 42 | 1 | 48.9629 | 0.02894 | 1.4170 | 45.7 | 46.3 | 46.6 | 47.5 | 48.0 | 49.0 | 49.9 | 50.4 | 51.3 | 51.6 | 52.3 |
| 3: 7 | 43 | 1 | 49.0294 | 0.02891 | 1.4174 | 45.7 | 46.4 | 46.7 | 47.6 | 48.1 | 49.0 | 50.0 | 50.5 | 51.4 | 51.7 | 52.3 |
| 3: 8 | 44 | 1 | 49.0937 | 0.02888 | 1.4178 | 45.8 | 46.4 | 46.8 | 47.6 | 48.1 | 49.1 | 50.1 | 50.6 | 51.4 | 51.8 | 52.4 |
| 3: 9 | 45 | 1 | 49.1560 | 0.02886 | 1.4186 | 45.9 | 46.5 | 46.8 | 47.7 | 48.2 | 49.2 | 50.1 | 50.6 | 51.5 | 51.8 | 52.5 |
| 3:10 | 46 | 1 | 49.2164 | 0.02883 | 1.4189 | 45.9 | 46.5 | 46.9 | 47.7 | 48.3 | 49.2 | 50.2 | 50.7 | 51.6 | 51.9 | 52.5 |
| 3:11 | 47 | 1 | 49.2751 | 0.02880 | 1.4191 | 46.0 | 46.6 | 46.9 | 47.8 | 48.3 | 49.3 | 50.2 | 50.7 | 51.6 | 51.9 | 52.6 |
| 4: 0 | 48 | 1 | 49.3321 | 0.02878 | 1.4198 | 46.0 | 46.7 | 47.0 | 47.9 | 48.4 | 49.3 | 50.3 | 50.8 | 51.7 | 52.0 | 52.6 |

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**Birth to 5 years (percentiles)**

**World Health Organization**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1st | 3rd | 5th | 15th | 25th | 50th | 75th | 85th | 95th | 97th | 99th |
| 4: 1 | 49 | 1 | 49.3877 | 0.02875 | 1.4199 | 46.1 | 46.7 | 47.1 | 47.9 | 48.4 | 49.4 | 50.3 | 50.9 | 51.7 | 52.1 | 52.7 |
| 4: 2 | 50 | 1 | 49.4419 | 0.02873 | 1.4205 | 46.1 | 46.8 | 47.1 | 48.0 | 48.5 | 49.4 | 50.4 | 50.9 | 51.8 | 52.1 | 52.7 |
| 4: 3 | 51 | 1 | 49.4947 | 0.02870 | 1.4205 | 46.2 | 46.8 | 47.2 | 48.0 | 48.5 | 49.5 | 50.5 | 51.0 | 51.8 | 52.2 | 52.8 |
| 4: 4 | 52 | 1 | 49.5464 | 0.02868 | 1.4210 | 46.2 | 46.9 | 47.2 | 48.1 | 48.6 | 49.5 | 50.5 | 51.0 | 51.9 | 52.2 | 52.9 |
| 4: 5 | 53 | 1 | 49.5969 | 0.02865 | 1.4210 | 46.3 | 46.9 | 47.3 | 48.1 | 48.6 | 49.6 | 50.6 | 51.1 | 51.9 | 52.3 | 52.9 |
| 4: 6 | 54 | 1 | 49.6464 | 0.02863 | 1.4214 | 46.3 | 47.0 | 47.3 | 48.2 | 48.7 | 49.6 | 50.6 | 51.1 | 52.0 | 52.3 | 53.0 |
| 4: 7 | 55 | 1 | 49.6947 | 0.02861 | 1.4218 | 46.4 | 47.0 | 47.4 | 48.2 | 48.7 | 49.7 | 50.7 | 51.2 | 52.0 | 52.4 | 53.0 |
| 4: 8 | 56 | 1 | 49.7421 | 0.02859 | 1.4221 | 46.4 | 47.1 | 47.4 | 48.3 | 48.8 | 49.7 | 50.7 | 51.2 | 52.1 | 52.4 | 53.1 |
| 4: 9 | 57 | 1 | 49.7885 | 0.02856 | 1.4220 | 46.5 | 47.1 | 47.4 | 48.3 | 48.8 | 49.8 | 50.7 | 51.3 | 52.1 | 52.5 | 53.1 |
| 4:10 | 58 | 1 | 49.8341 | 0.02854 | 1.4223 | 46.5 | 47.2 | 47.5 | 48.4 | 48.9 | 49.8 | 50.8 | 51.3 | 52.2 | 52.5 | 53.1 |
| 4:11 | 59 | 1 | 49.8789 | 0.02852 | 1.4226 | 46.6 | 47.2 | 47.5 | 48.4 | 48.9 | 49.9 | 50.8 | 51.4 | 52.2 | 52.6 | 53.2 |
| 5: 0 | 60 | 1 | 49.9229 | 0.02850 | 1.4228 | 46.6 | 47.2 | 47.6 | 48.4 | 49.0 | 49.9 | 50.9 | 51.4 | 52.3 | 52.6 | 53.2 |

**WHO Child Growth Standards**