

**Appendix I**

## Risk of major trisomies in relation to maternal age and gestation

**Table 1 Risk of Trisomy 21 (Snijders et al. Ultrasound Obstet Gynecol 1999;13:167-70)**

<b>Maternal age (years)</b>	<b>Gestational age</b>					
	<b>10 weeks</b>	<b>12 weeks</b>	<b>14 weeks</b>	<b>16 weeks</b>	<b>20 weeks</b>	<b>40 weeks</b>
20	1/983	1/1068	1/1140	1/1200	1/1295	1/1527
25	1/870	1/946	1/1009	1/1062	1/1147	1/1352
30	1/576	1/626	1/668	1/703	1/759	1/895
31	1/500	1/543	1/580	1/610	1/658	1/776
32	1/424	1/461	1/492	1/518	1/559	1/659
33	1/352	1/383	1/409	1/430	1/464	1/547
34	1/287	1/312	1/333	1/350	1/378	1/446
35	1/229	1/249	1/266	1/280	1/302	1/356
36	1/180	1/196	1/209	1/220	1/238	1/280
37	1/140	1/152	1/163	1/171	1/185	1/218
38	1/108	1/117	1/125	1/131	1/142	1/167
39	1/82	1/89	1/95	1/100	1/108	1/128
40	1/62	1/68	1/72	1/76	1/82	1/97
41	1/47	1/51	1/54	1/57	1/62	1/73
42	1/35	1/38	1/41	1/43	1/46	1/55
43	1/26	1/29	1/30	1/32	1/35	1/41
44	1/20	1/21	1/23	1/24	1/26	1/30
45	1/15	1/16	1/17	1/18	1/19	1/23

**Table 2 Risk of trisomy 18 (Snijders et al. Fetal Diag Ther 1995;10:356-67)**

<b>Maternal age (years)</b>	<b>Gestational age</b>					
	<b>10 weeks</b>	<b>12 weeks</b>	<b>14 weeks</b>	<b>16 weeks</b>	<b>20 weeks</b>	<b>40 weeks</b>
20	1/1993	1/2484	1/3015	1/3590	1/4897	1/18013
25	1/1765	1/2200	1/2670	1/3179	1/4336	1/15951
30	1/1168	1/1456	1/1766	1/2103	1/2869	1/10554
31	1/1014	1/1263	1/1533	1/1825	1/2490	1/9160
32	1/860	1/1072	1/1301	1/1549	1/2490	1/7775
33	1/715	1/891	1/1081	1/1287	1/1755	1/6458
34	1/582	1/725	1/880	1/1047	1/1429	1/5256
35	1/465	1/580	1/703	1/837	1/1142	1/4202
36	1/366	1/456	1/553	1/659	1/899	1/3307
37	1/284	1/354	1/430	1/512	1/698	1/2569
38	1/218	1/272	1/330	1/393	1/537	1/1974
39	1/167	1/208	1/252	1/300	1/409	1/1505
40	1/126	1/157	1/191	1/227	1/310	1/1139
41	1/95	1/118	1/144	1/171	1/233	1/858
42	1/71	1/89	1/108	1/128	1/175	1/644
43	1/53	1/66	1/81	1/96	1/131	1/481
44	1/40	1/50	1/60	1/72	1/98	1/359

**Table 3 Risk of trisomy 13 (Snijders et al. Fetal Diag Ther 1995;10:356–67)**

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<b>Maternal age (years)</b>	<b>Gestational age</b>					
	<b>10 weeks</b>	<b>12 weeks</b>	<b>14 weeks</b>	<b>16 weeks</b>	<b>20 weeks</b>	<b>40 weeks</b>
20	1/6347	1/7826	1/9389	1/11042	1/14656	1/42423
25	1/5621	1/6930	1/8314	1/9778	1/12978	1/37567
30	1/3719	1/4585	1/5501	1/6470	1/8587	1/24856
31	1/3228	1/3980	1/4774	1/5615	1/7453	1/21573
32	1/2740	1/3378	1/4052	1/4766	1/6326	1/18311
33	1/2275	1/2806	1/3366	1/3959	1/5254	1/15209
34	1/1852	1/2284	1/2740	1/3222	1/4277	1/12380
35	1/1481	1/1826	1/2190	1/2576	1/3419	1/9876
36	1/1165	1/1437	1/1724	1/2027	1/2691	1/7788
37	1/905	1/1116	1/1339	1/1575	1/2090	1/6050
38	1/696	1/858	1/1029	1/1210	1/1606	1/4650
39	1/530	1/654	1/784	1/922	1/1224	1/3544
40	1/401	1/495	1/594	1/698	1/927	1/2683
41	1/302	1/373	1/447	1/526	1/698	1/2020
42	1/227	1/280	1/335	1/395	1/524	1/1516
43	1/170	1/209	1/251	1/295	1/392	1/1134
44	1/127	1/156	1/187	1/220	1/292	1/846

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*Appendix II*

## Antenatal sonographic findings in skeletal dysplasias

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***Type of limb shortening***

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<b><i>Rhizomelia</i></b>	<ul style="list-style-type: none"> <li>Thanatophoric dysplasia</li> <li>Atelosteogenesis</li> <li>Chondrodysplasia punctata (rhizomelic type)</li> <li>Diastrophic dysplasia</li> <li>Congenital short femur</li> <li>Achondroplasia</li> </ul>
<b><i>Mesomelia</i></b>	<ul style="list-style-type: none"> <li>Mesomelic dysplasia</li> <li>COVESDEM association</li> <li>Acromelia</li> <li>Ellis-Van Creveld syndrome</li> </ul>
<b><i>Micromelia</i></b>	<ul style="list-style-type: none"> <li>Achondrogenesis</li> <li>Atelosteogenesis</li> <li>Short-rib polydactyly syndrome (types I &amp; III)</li> <li>Diastrophic dysplasia</li> <li>Fibrochondrogenesis</li> <li>Osteogenesis imperfecta (type II)</li> <li>Kniest dysplasia</li> <li>Dyssegmental dysplasia</li> </ul>

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***Altered thoracic dimensions***

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<b><i>Long narrow thorax</i></b>	<ul style="list-style-type: none"> <li>Asphyxiating thoracic dysplasia</li> <li>Ellis Van Creveld syndrome</li> <li>Metatropic dysplasia</li> <li>Fibrochondrogenesis</li> <li>Atelosteogenesis</li> <li>Campomelic dysplasia</li> <li>Jarcho-Levin syndrome</li> <li>Achondrogenesis</li> <li>Hypophosphatasia</li> <li>Dyssegmental dysplasia</li> <li>Cleidocranial dysplasia</li> </ul>
<b><i>Short thorax</i></b>	<ul style="list-style-type: none"> <li>Osteogenesis imperfecta (type II)</li> <li>Kniest's dysplasia</li> <li>Pena-Shokeir syndrome</li> <li>Hypoplastic thorax</li> <li>Short-rib polydactyly syndrome (types I &amp; II)</li> <li>Thanatophoric dysplasia</li> <li>Cerebro-costo-mandibular syndrome</li> <li>Cleidocranial dysostosis syndrome</li> <li>Homozygous achondroplasia</li> <li>Melnick-Needles syndrome (osteodysplasty)</li> <li>Fibrochondrogenesis</li> <li>Otopalatodigital syndrome (type II)</li> </ul>

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**Hand and foot abnormalities**

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<b>Postaxial polydactyly</b>	Chondroectodermal dysplasia Short rib-polydactyly syndrome (type I, type III) Asphyxiating thoracic dysplasia Otopalatodigital syndrome Mesomelic dysplasia Werner type (associated with absence of thumbs)
<b>Preaxial polydactyly</b>	Chondroectodermal dysplasia Short-rib polydactyly syndrome type II Carpenter syndrome
<b>Syndactyly</b>	Poland syndrome Carpenter syndrome Aper syndrome Otopalatodigital syndrome (type II) Mesomelic dysplasia Werner type TAR syndrome Jarcho-Levin syndrome Roberts syndrome
<b>Brachydactyly</b>	Mesomelic dysplasia Robinow type Otopalatodigital syndrome
<b>Hitch-hiker thumb</b>	Diastrophic dysplasia
<b>Club feet deformity</b>	Diastrophic dysplasia Osteogenesis imperfecta Kniest's dysplasia Spondyloepiphyseal dysplasia congenita

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**Skull and face deformities**

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<b>Large head</b>	Achondroplasia Achondrogenesis Thanatophoric dysplasia Osteogenesis imperfecta Cleidocranial dysplasia Hypophosphatasia Campomelic syndrome Short rib-polydactyly syndrome (type III) Robinow mesomelic dysplasia Otopalatodigital syndrome
<b>Clover-leaf skull</b>	Thanatophoric dysplasia (type II) Campomelic syndrome
<b>Other craniostenosis</b>	Apert's syndrome Carpenter syndrome Hypophosphatasia
<b>Congenital cataracts</b>	Chondrodysplasia punctata
<b>Cleft palate</b>	Asphyxiating thoracic dysplasia Kniest's dysplasia Diastrophic dysplasia Spondyloepiphyseal syndrome Campomelic syndrome Jarcho-Levin syndrome Chondroectodermal dysplasia Short-rib polydactyly syndrome (type II) Metatropic dysplasia Dyssegmental dysplasia Otopalatodigital syndrome type II Roberts syndrome

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**Skull and face deformities (contd.)**

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**Hypertelorism**

Otopalatodigital syndrome  
Arthrogryposis multiplex congenita  
Larsen's syndrome  
Roberts syndrome  
Cleidocranial dysplasia  
Achondroplasia  
Campomelic dysplasia  
Coffin syndrome  
Klippel-Feil syndrome  
Aper syndrome  
Sprengel's deformity  
Mesomelic dysplasia  
Holt-Oram syndrome

**Micrognathia**

Campomelic dysplasia  
Diastrophic dysplasia  
Otopalatodigital syndrome  
Achondrogenesis  
Mesomelic dysplasia  
Arthrogryposis multiplex congenita  
Nager acrofacial dysostosis  
Oromandibular limb hypogenesis  
Atelosteogenesis

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*Appendix III*

## **Fetal biometry at 14-40 weeks of gestation**

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Table 1 Biparietal diameter

Table 2 Head circumference

Table 3 Anterior cerebral ventricle diameter

Table 4 Posterior cerebral ventricle diameter

Table 5 Anterior cerebral ventricle diameter to hemisphere diameter ratio

Table 6 Posterior cerebral ventricle diameter to hemisphere diameter ratio

Table 7 Transverse cerebellar diameter

Table 8 Cisterna magna diameter

Table 9 Abdominal circumference

Table 10 Head circumference to abdominal circumference ratio

Table 11 Femur length

Table 12 Head circumference to femur length ratio

## Normal Fetal Biometry

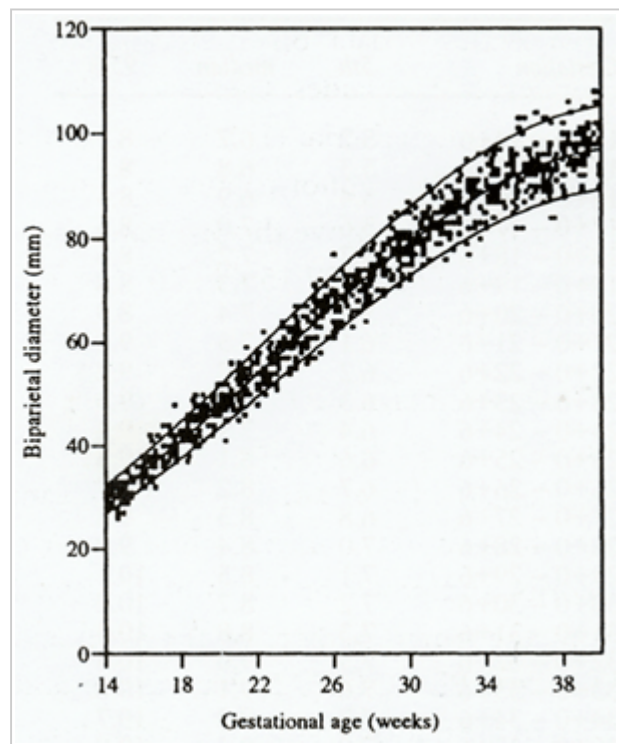
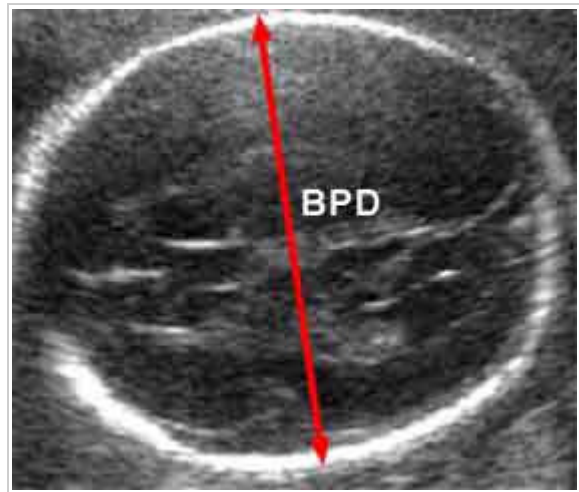
The normal ranges for fetal biometry presented in this section were established from cross-sectional data on 1040 singleton pregnancies at 14–40 weeks of gestation (Snijders & Nicolaides, *Ultrasound Obstet Gynecol* 1994;4:34–48). The patients fulfilled the following criteria: (1) known last menstrual period with a cycle length of 26–30 days, (2) no fetal abnormalities and no pregnancy complications, (3) live birth at term, (4) birth weight above the 3rd and below the 97th centile for gestation (Yudkin et al., *Early Hum Dev* 1987;15:45–52). For each 7-day interval from 14 to 40 weeks, 40 patients were included.

Measurements of biparietal diameter (BPD), occipito-frontal diameter (OFD), anterior and posterior cerebral ventricle diameter (Va and Vp), and hemisphere (H) were obtained from a transverse axial plane of the fetal head showing a central mid-line echo broken in the anterior third by the cavum septii pellucidi and demonstrating the anterior and posterior horns of the lateral ventricles. BPD and OFD were measured from the outer borders of the skull and head circumference (HC) was calculated  $[3.14 \times (BPD + OFD) / 2]$ . Va was the distance between the lateral wall of the anterior horn to the mid-line and Vp was the distance between the medial and lateral walls of the posterior horn. The hemisphere was measured from the mid-line to the inner border of the skull. Transverse cerebellar diameter (TCD) and cisterna magna diameter (CM) were measured in the suboccipitobregmatic plane of the head. The femur length (FL) was measured from the greater trochanter to the lateral condyle. For abdominal circumference (AC), a transverse section of the fetal abdomen was taken at the level of the stomach and the bifurcation of the main portal vein into its right and left branches. The anteroposterior (AD1) and transverse (AD2) diameters were measured and AC was calculated  $[3.14 \times (A) / 2]$ . The following ratios were calculated: HC/AC, HC/FL, Va/H and Vp/H.

For each of the measurements and their ratios, regression analysis was applied examining linear, quadratic and cubic models for the association with gestational age (in days). For those measurements where the standard deviation increased or decreased with gestation, logarithmic or square root transformation was applied to stabilize variance. If the quadratic or cubic terms did not improve the original linear model (an independent correlation with  $p < 0.05$  and improvement of the correlation coefficient), the linear model was chosen as the best fit. Where the quadratic or cubic components did improve the model, they were included in the equation for the regression line. Equations for regression lines on transformed data were used to calculate the mean and residual SD in transformed units. To produce the reference ranges in the original units, the mean and limits of the calculated reference range in transformed units were subjected to anti-logarithmic or power transformation as appropriate.

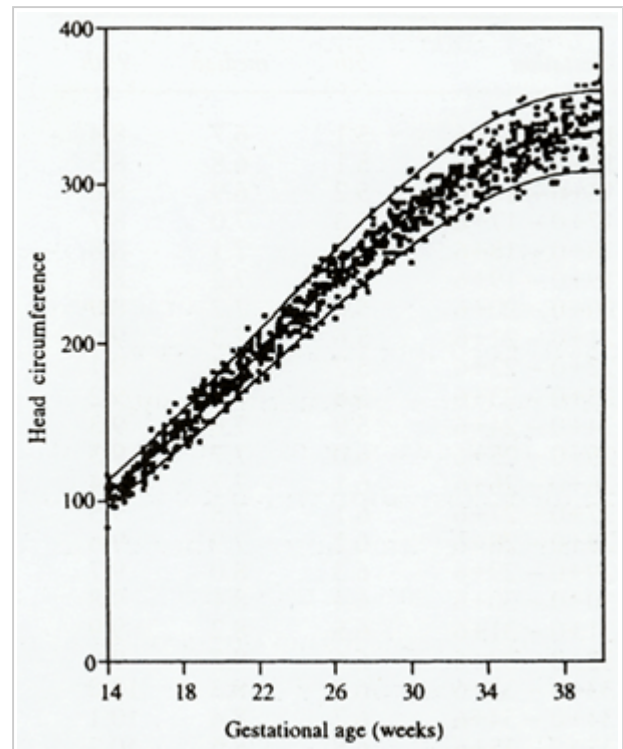
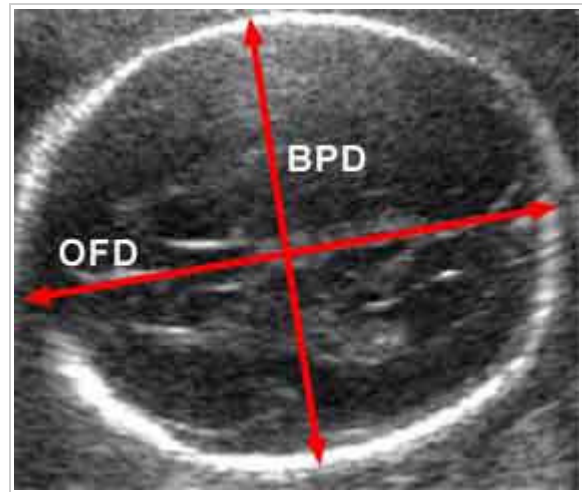
**Table 1 Biparietal diameter (mm)**

Gestation	5th	median	95th
14+0 - 14+6	28	31	34
15+0 - 15+6	31	34	37
16+0 - 16+6	34	37	40
17+0 - 17+6	36	40	43
18+0 - 18+6	39	43	47
19+0 - 19+6	42	46	50
20+0 - 20+6	45	49	54
21+0 - 21+6	48	52	57
22+0 - 22+6	51	56	61
23+0 - 23+6	54	59	64
24+0 - 24+6	57	62	68
25+0 - 25+6	60	66	71
26+0 - 26+6	63	69	75
27+0 - 27+6	66	72	78
28+0 - 28+6	69	75	81
29+0 - 29+6	72	78	85
30+0 - 30+6	74	81	88
31+0 - 31+6	77	83	90
32+0 - 32+6	79	86	93
33+0 - 33+6	81	88	96
34+0 - 34+6	83	90	98
35+0 - 35+6	85	92	100
36+0 - 36+6	86	94	102
37+0 - 37+6	87	95	103
38+0 - 38+6	88	96	104
39+0 - 39+6	89	97	105



**Table 2 Head circumference (mm)**

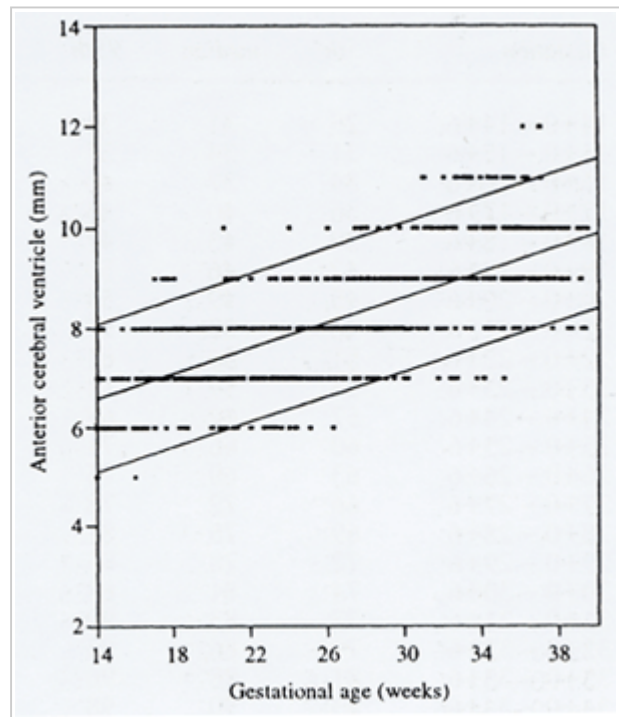
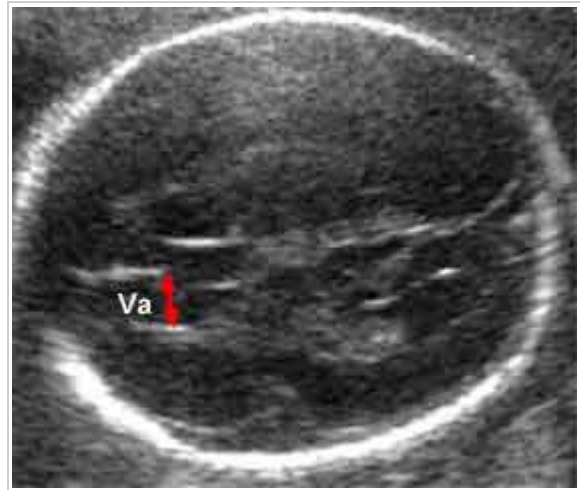
Gestation	5th	median	95th
14+0 - 14+6	102	110	118
15+0 - 15+6	111	120	129
16+0 - 16+6	120	130	140
17+0 - 17+6	130	141	152
18+0 - 18+6	141	152	164
19+0 - 19+6	151	163	176
20+0 - 20+6	162	175	189
21+0 - 21+6	173	187	201
22+0 - 22+6	184	198	214
23+0 - 23+6	195	210	227
24+0 - 24+6	206	222	240
25+0 - 25+6	217	234	252
26+0 - 26+6	227	245	264
27+0 - 27+6	238	256	277
28+0 - 28+6	248	267	288
29+0 - 29+6	257	277	299
30+0 - 30+6	266	287	309
31+0 - 31+6	274	296	319
32+0 - 32+6	282	304	328
33+0 - 33+6	288	311	336
34+0 - 34+6	294	317	342
35+0 - 35+6	299	323	348
36+0 - 36+6	303	327	353
37+0 - 37+6	306	330	356
38+0 - 38+6	308	332	358
39+0 - 39+6	309	333	359



$$HC = [3.14 \times (BPD+OFD)]/2$$

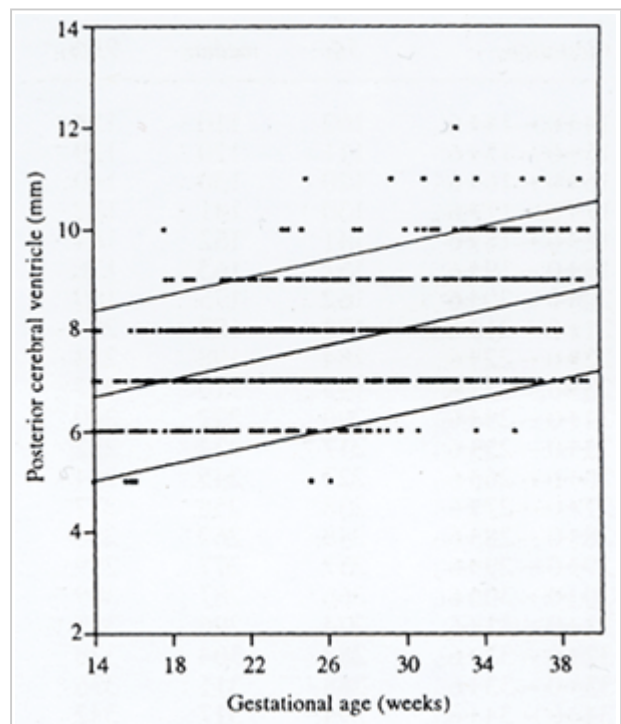
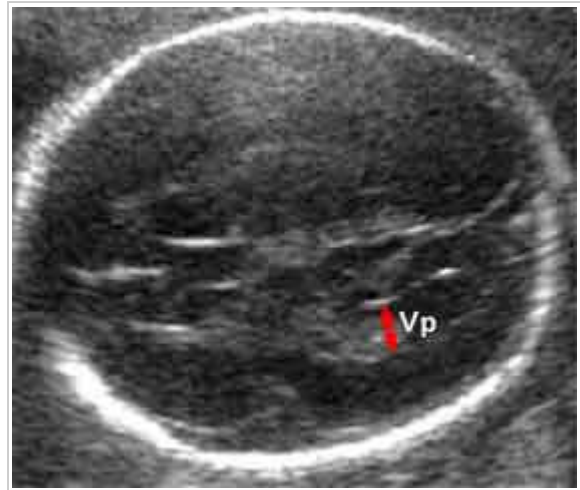
**Table 3 Anterior cerebral ventricle diameter (mm)**

Gestation	5th	median	95th
14+0 - 14+6	5.2	6.7	8.1
15+0 - 15+6	5.3	6.8	8.3
16+0 - 16+6	5.4	6.9	8.4
17+0 - 17+6	5.6	7.0	8.5
18+0 - 18+6	5.7	7.2	8.6
19+0 - 19+6	5.8	7.3	8.8
20+0 - 20+6	5.9	7.4	8.9
21+0 - 21+6	6.1	7.5	9.0
22+0 - 22+6	6.2	7.7	9.2
23+0 - 23+6	6.3	7.8	9.3
24+0 - 24+6	6.4	7.9	9.4
25+0 - 25+6	6.6	8.1	9.5
26+0 - 26+6	6.7	8.2	9.7
27+0 - 27+6	6.8	8.3	9.8
28+0 - 28+6	7.0	8.4	9.9
29+0 - 29+6	7.1	8.5	10.1
30+0 - 30+6	7.2	8.7	10.2
31+0 - 31+6	7.3	8.8	10.3
32+0 - 32+6	7.5	9.0	10.4
33+0 - 33+6	7.6	9.1	10.6
34+0 - 34+6	7.7	9.2	10.7
35+0 - 35+6	7.9	9.3	10.8
36+0 - 36+6	8.0	9.5	10.9
37+0 - 37+6	8.1	9.6	11.1
38+0 - 38+6	8.2	9.7	11.2
39+0 - 39+6	8.3	9.8	11.3



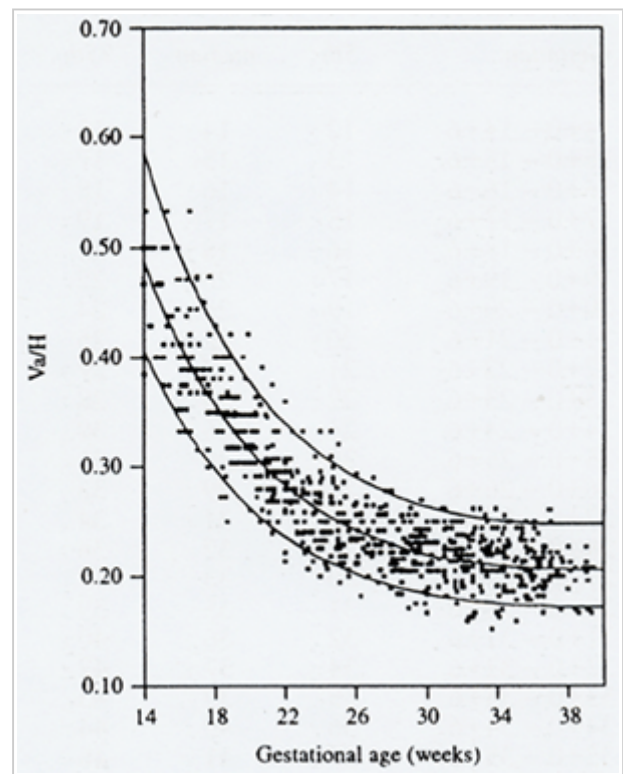
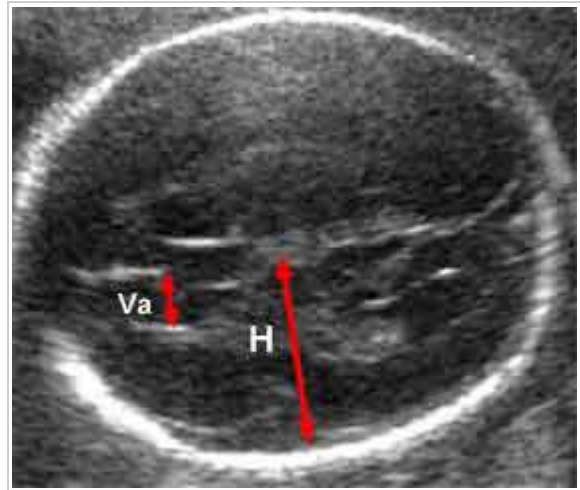
**Table 4** *Posterior cerebral ventricle diameter (mm)*

<i>Gestation</i>	<i>5th</i>	<i>median</i>	<i>95th</i>
14+0 - 14+6	5.1	6.7	8.4
15+0 - 15+6	5.1	6.8	8.5
16+0 - 16+6	5.2	6.9	8.6
17+0 - 17+6	5.3	7.0	8.7
18+0 - 18+6	5.4	7.1	8.8
19+0 - 19+6	5.5	7.2	8.8
20+0 - 20+6	5.6	7.2	8.9
21+0 - 21+6	5.6	7.3	9.0
22+0 - 22+6	5.7	7.4	9.1
23+0 - 23+6	5.8	7.5	9.2
24+0 - 24+6	5.9	7.6	9.3
25+0 - 25+6	6.0	7.7	9.3
26+0 - 26+6	6.1	7.7	9.4
27+0 - 27+6	6.1	7.8	9.5
28+0 - 28+6	6.2	7.9	9.6
29+0 - 29+6	6.3	8.0	9.7
30+0 - 30+6	6.4	8.1	9.8
31+0 - 31+6	6.5	8.2	9.9
32+0 - 32+6	6.6	8.3	9.9
33+0 - 33+6	6.7	8.3	10.0
34+0 - 34+6	6.7	8.4	10.1
35+0 - 35+6	6.8	8.5	10.2
36+0 - 36+6	6.9	8.6	10.3
37+0 - 37+6	7.0	8.7	10.4
38+0 - 38+6	7.1	8.8	10.4
39+0 - 39+6	7.2	8.8	10.5



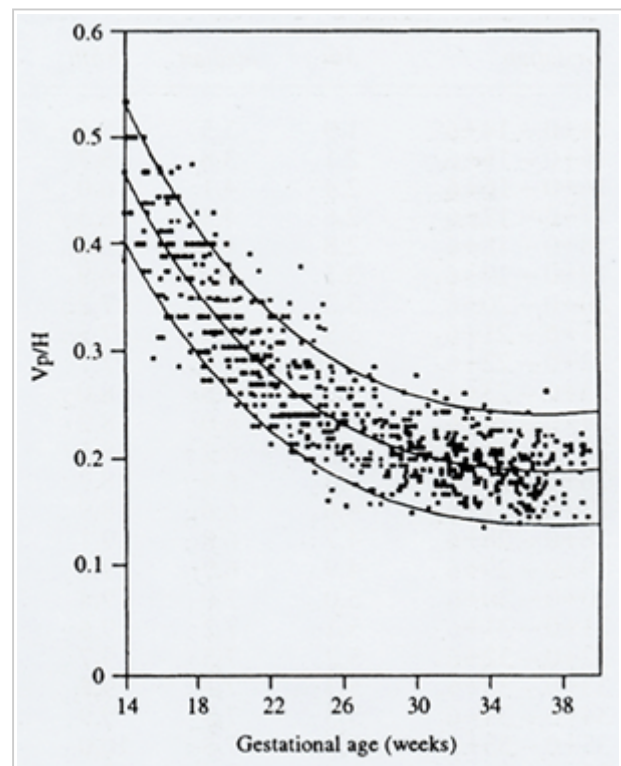
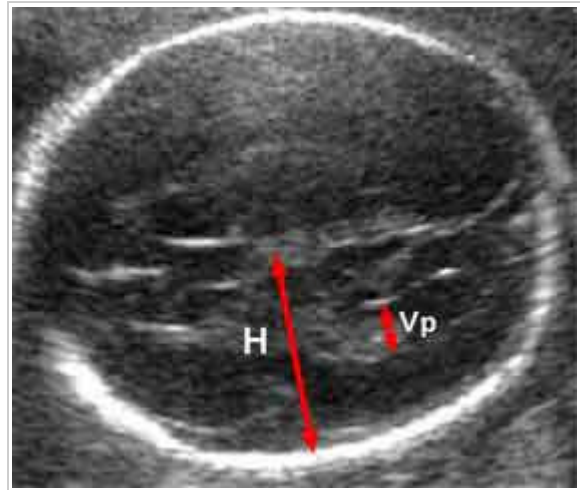
**Table 5** Anterior cerebral ventricle diameter (Va) to hemisphere diameter (H) ratio

Gestation	5th	median	95th
14+0 - 14+6	0.39	0.47	0.56
15+0 - 15+6	0.36	0.43	0.51
16+0 - 16+6	0.33	0.40	0.48
17+0 - 17+6	0.31	0.37	0.44
18+0 - 18+6	0.29	0.35	0.41
19+0 - 19+6	0.27	0.32	0.39
20+0 - 20+6	0.26	0.31	0.37
21+0 - 21+6	0.24	0.29	0.35
22+0 - 22+6	0.23	0.28	0.33
23+0 - 23+6	0.22	0.27	0.32
24+0 - 24+6	0.21	0.26	0.31
25+0 - 25+6	0.21	0.25	0.30
26+0 - 26+6	0.20	0.24	0.29
27+0 - 27+6	0.19	0.23	0.28
28+0 - 28+6	0.19	0.23	0.27
29+0 - 29+6	0.19	0.22	0.27
30+0 - 30+6	0.18	0.22	0.26
31+0 - 31+6	0.18	0.21	0.26
32+0 - 32+6	0.18	0.21	0.26
33+0 - 33+6	0.18	0.21	0.25
34+0 - 34+6	0.17	0.21	0.25
35+0 - 35+6	0.17	0.21	0.25
36+0 - 36+6	0.17	0.21	0.25
37+0 - 37+6	0.17	0.21	0.25
38+0 - 38+6	0.17	0.21	0.25
39+0 - 39+6	0.17	0.21	0.25



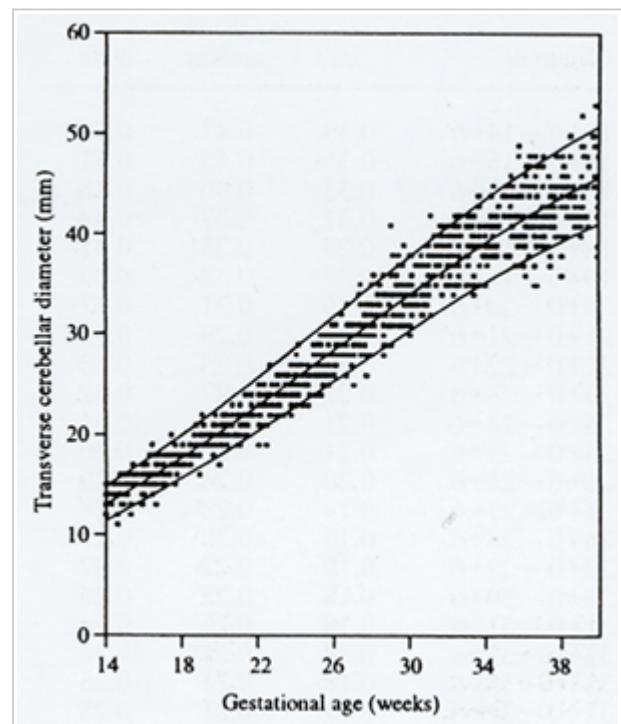
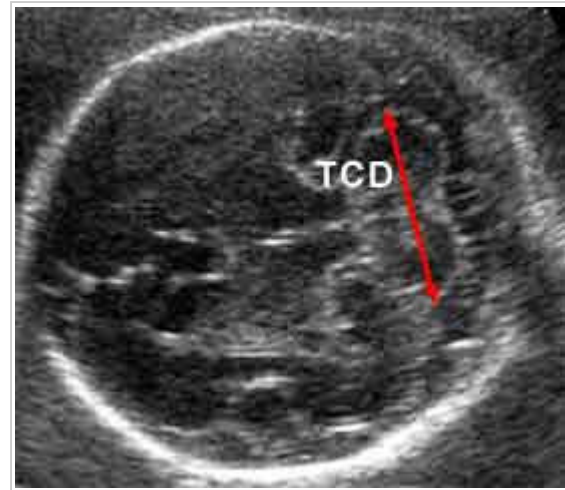
**Table 6** *Posterior cerebral ventricle diameter (Vp) to hemisphere diameter (H) ratio*

<i>Gestation</i>	<i>5th</i>	<i>median</i>	<i>95th</i>
14+0 - 14+6	0.36	0.45	0.56
15+0 - 15+6	0.34	0.42	0.52
16+0 - 16+6	0.31	0.39	0.48
17+0 - 17+6	0.29	0.36	0.45
18+0 - 18+6	0.27	0.34	0.42
19+0 - 19+6	0.26	0.32	0.40
20+0 - 20+6	0.24	0.30	0.37
21+0 - 21+6	0.23	0.29	0.35
22+0 - 22+6	0.22	0.27	0.34
23+0 - 23+6	0.21	0.26	0.32
24+0 - 24+6	0.20	0.25	0.31
25+0 - 25+6	0.19	0.24	0.29
26+0 - 26+6	0.18	0.23	0.28
27+0 - 27+6	0.18	0.22	0.27
28+0 - 28+6	0.17	0.21	0.26
29+0 - 29+6	0.17	0.21	0.26
30+0 - 30+6	0.16	0.20	0.25
31+0 - 31+6	0.16	0.20	0.24
32+0 - 32+6	0.16	0.19	0.24
33+0 - 33+6	0.15	0.19	0.24
34+0 - 34+6	0.15	0.19	0.24
35+0 - 35+6	0.15	0.19	0.24
36+0 - 36+6	0.15	0.19	0.24
37+0 - 37+6	0.15	0.19	0.24
38+0 - 38+6	0.15	0.19	0.24
39+0 - 39+6	0.15	0.19	0.24



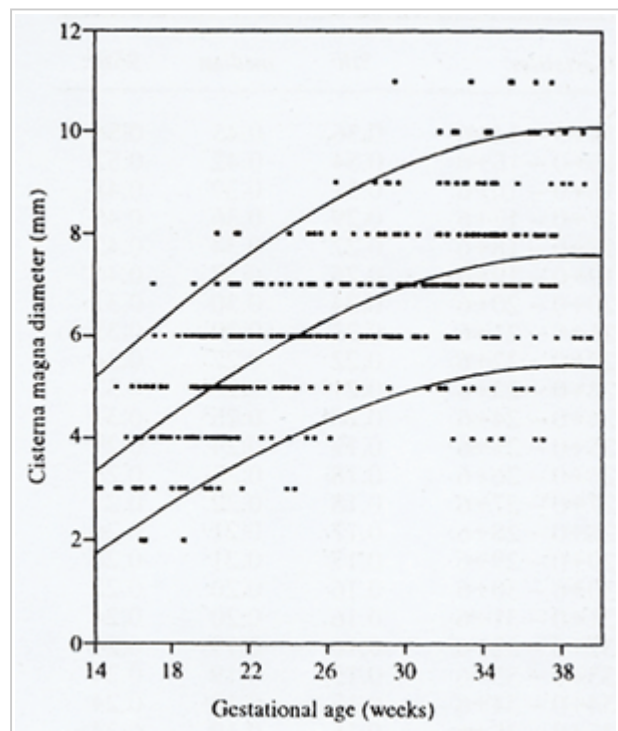
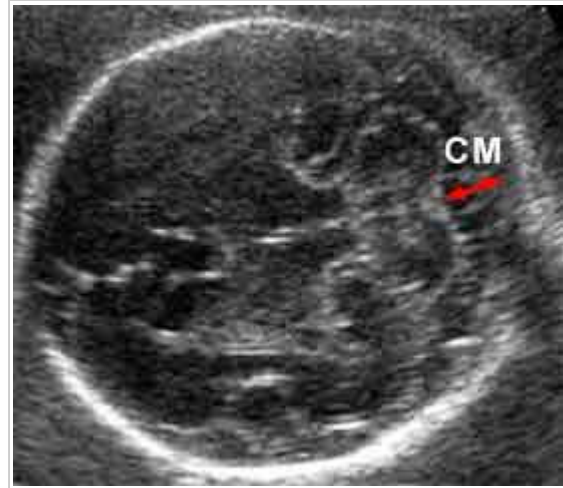
**Table 7 Transverse cerebellar diameter (mm)**

Gestation	5th	median	95th
14+0 - 14+6	12	14	15
15+0 - 15+6	13	15	17
16+0 - 16+6	14	16	18
17+0 - 17+6	15	17	19
18+0 - 18+6	16	18	21
19+0 - 19+6	17	20	22
20+0 - 20+6	19	21	24
21+0 - 21+6	20	22	25
22+0 - 22+6	21	24	27
23+0 - 23+6	22	25	28
24+0 - 24+6	24	26	30
25+0 - 25+6	25	28	31
26+0 - 26+6	26	29	33
27+0 - 27+6	27	31	34
28+0 - 28+6	29	32	36
29+0 - 29+6	30	33	37
30+0 - 30+6	31	35	39
31+0 - 31+6	32	36	40
32+0 - 32+6	34	37	42
33+0 - 33+6	35	39	43
34+0 - 34+6	36	40	44
35+0 - 35+6	37	41	46
36+0 - 36+6	38	42	47
37+0 - 37+6	39	43	48
38+0 - 38+6	40	44	49
39+0 - 39+6	41	45	51



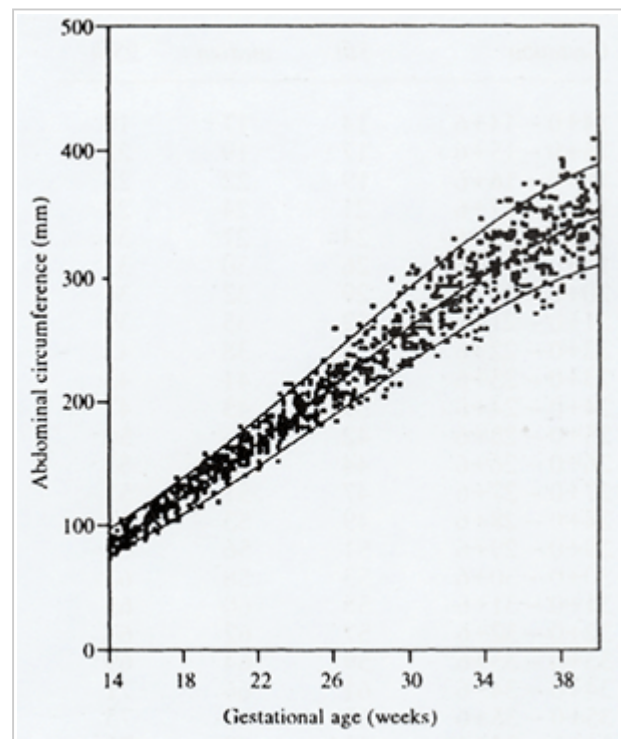
**Table 8 Cisterna magna diameter (mm)**

Gestation	5th	median	95th
14+0 - 14+6	1.9	3.5	5.3
15+0 - 15+6	2.1	3.8	5.7
16+0 - 16+6	2.4	4.1	6.0
17+0 - 17+6	2.6	4.3	6.3
18+0 - 18+6	2.8	4.6	6.6
19+0 - 19+6	3.1	4.9	6.9
20+0 - 20+6	3.3	5.1	7.2
21+0 - 21+6	3.5	5.4	7.5
22+0 - 22+6	3.7	5.6	7.7
23+0 - 23+6	3.9	5.8	8.0
24+0 - 24+6	4.1	6.0	8.2
25+0 - 25+6	4.3	6.2	8.5
26+0 - 26+6	4.4	6.4	8.7
27+0 - 27+6	4.6	6.6	8.9
28+0 - 28+6	4.7	6.8	9.1
29+0 - 29+6	4.9	6.9	9.3
30+0 - 30+6	5.0	7.0	9.4
31+0 - 31+6	5.1	7.2	9.6
32+0 - 32+6	5.2	7.3	9.7
33+0 - 33+6	5.3	7.4	9.8
34+0 - 34+6	5.3	7.5	9.9
35+0 - 35+6	5.4	7.5	10.0
36+0 - 36+6	5.4	7.6	10.0
37+0 - 37+6	5.4	7.6	10.1
38+0 - 38+6	5.5	7.6	10.1
39+0 - 39+6	5.5	7.6	10.1



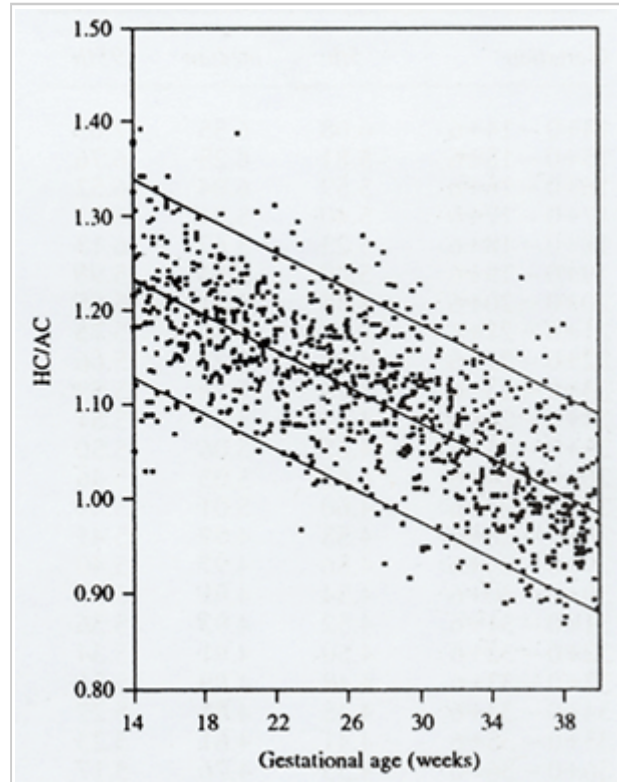
**Table 9** Abdominal circumference (mm)

<i>Gestation</i>	<i>5th</i>	<i>median</i>	<i>95th</i>
14+0 - 14+6	80	90	102
15+0 - 15+6	88	99	112
16+0 - 16+6	96	108	122
17+0 - 17+6	105	118	133
18+0 - 18+6	114	128	144
19+0 - 19+6	123	139	156
20+0 - 20+6	133	149	168
21+0 - 21+6	143	161	181
22+0 - 22+6	153	172	193
23+0 - 23+6	163	183	206
24+0 - 24+6	174	195	219
25+0 - 25+6	184	207	233
26+0 - 26+6	195	219	246
27+0 - 27+6	205	231	259
28+0 - 28+6	216	243	272
29+0 - 29+6	226	254	285
30+0 - 30+6	237	266	298
31+0 - 31+6	246	277	310
32+0 - 32+6	256	287	322
33+0 - 33+6	265	297	334
34+0 - 34+6	274	307	345
35+0 - 35+6	282	316	355
36+0 - 36+6	289	324	364
37+0 - 37+6	295	332	372
38+0 - 38+6	302	339	380
39+0 - 39+6	307	345	387



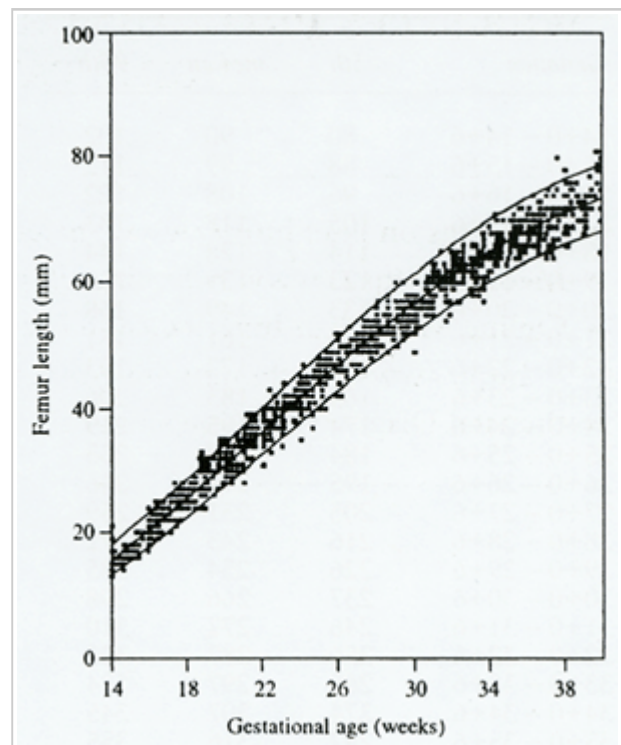
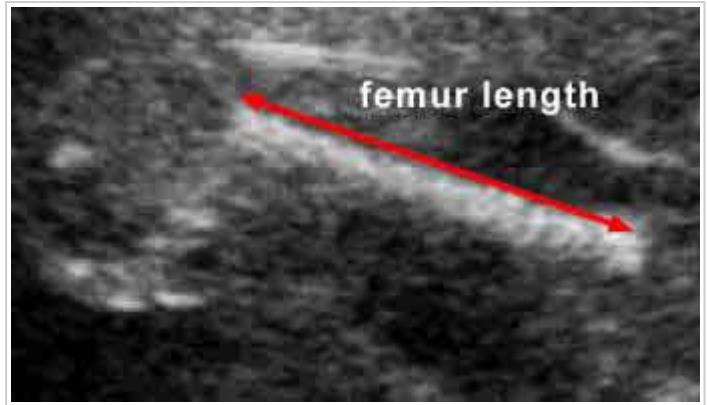
**Table 10** Head circumference (HC) to abdominal circumference (AC) ratio

Gestation	5th	median	95th
14+0 - 14+6	1.12	1.23	1.33
15+0 - 15+6	1.11	1.22	1.32
16+0 - 16+6	1.10	1.21	1.31
17+0 - 17+6	1.09	1.20	1.30
18+0 - 18+6	1.09	1.19	1.29
19+0 - 19+6	1.08	1.18	1.29
20+0 - 20+6	1.07	1.17	1.28
21+0 - 21+6	1.06	1.16	1.27
22+0 - 22+6	1.05	1.15	1.26
23+0 - 23+6	1.04	1.14	1.25
24+0 - 24+6	1.03	1.13	1.24
25+0 - 25+6	1.02	1.12	1.23
26+0 - 26+6	1.01	1.11	1.22
27+0 - 27+6	1.00	1.10	1.21
28+0 - 28+6	0.99	1.09	1.20
29+0 - 29+6	0.98	1.08	1.19
30+0 - 30+6	0.97	1.08	1.18
31+0 - 31+6	0.96	1.07	1.17
32+0 - 32+6	0.95	1.06	1.16
33+0 - 33+6	0.94	1.05	1.15
34+0 - 34+6	0.93	1.04	1.14
35+0 - 35+6	0.92	1.03	1.13
36+0 - 36+6	0.91	1.02	1.12
37+0 - 37+6	0.90	1.01	1.11
38+0 - 38+6	0.89	1.00	1.10
39+0 - 39+6	0.88	0.99	1.09



**Table 11 Femur length (mm)**

Gestation	5th	median	95th
14+0 - 14+6	14	17	19
15+0 - 15+6	17	19	22
16+0 - 16+6	19	22	25
17+0 - 17+6	21	24	28
18+0 - 18+6	24	27	30
19+0 - 19+6	26	30	33
20+0 - 20+6	29	32	36
21+0 - 21+6	32	35	39
22+0 - 22+6	34	38	42
23+0 - 23+6	37	41	45
24+0 - 24+6	39	43	47
25+0 - 25+6	42	46	50
26+0 - 26+6	44	48	53
27+0 - 27+6	47	51	55
28+0 - 28+6	49	53	58
29+0 - 29+6	51	56	60
30+0 - 30+6	53	58	63
31+0 - 31+6	55	60	65
32+0 - 32+6	57	62	67
33+0 - 33+6	59	64	69
34+0 - 34+6	61	66	71
35+0 - 35+6	63	68	73
36+0 - 36+6	64	69	74
37+0 - 37+6	66	71	76
38+0 - 38+6	67	72	77
39+0 - 39+6	68	73	78



**Table 12 Head circumference (HC) to femur length (FL) ratio**

Gestation	5th	median	95th
14+0 - 14+6	6.08	6.55	7.05
15+0 - 15+6	5.81	6.28	6.76
16+0 - 16+6	5.59	6.04	6.52
17+0 - 17+6	5.40	5.84	6.31
18+0 - 18+6	5.23	5.67	6.13
19+0 - 19+6	5.09	5.53	5.98
20+0 - 20+6	4.98	5.41	5.85
21+0 - 21+6	4.88	5.31	5.75
22+0 - 22+6	4.80	5.22	5.66
23+0 - 23+6	4.74	5.16	5.59
24+0 - 24+6	4.69	5.11	5.54
25+0 - 25+6	4.65	5.06	5.50
26+0 - 26+6	4.62	5.03	5.46
27+0 - 27+6	4.60	5.01	5.44
28+0 - 28+6	4.58	4.99	5.41
29+0 - 29+6	4.56	4.97	5.40
30+0 - 30+6	4.54	4.95	5.38
31+0 - 31+6	4.52	4.93	5.36
32+0 - 32+6	4.50	4.91	5.34
33+0 - 33+6	4.48	4.89	5.31
34+0 - 34+6	4.45	4.85	5.27
35+0 - 35+6	4.41	4.81	5.23
36+0 - 36+6	4.35	4.76	5.17
37+0 - 37+6	4.29	4.69	5.11
38+0 - 38+6	4.21	4.61	5.02
39+0 - 39+6	4.12	4.51	4.92

