

 Helse Bergen HF/Kvinneklubben/Seksjon for fostermedisin og ultralyd	Doppler referansetabeller arteria cerebri media og cerebroplacental ratio	
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Referanseverdier Doppler arteria cerebri media, og cerebroplacental ratio
 Ebbing C *et al* Ultrasound Obstet Gynecol 2007

<i>Gestational age (weeks)</i>	<i>Percentiles</i>								
	2.5	5	10	25	50	75	90	95	97.5
21	17.14	18.12	19.31	21.46	24.09	27.00	29.90	31.75	33.45
22	18.34	19.37	20.63	22.91	25.69	28.77	31.83	33.79	35.57
23	19.62	20.72	22.05	24.47	27.41	30.67	33.90	35.97	37.86
24	20.98	22.15	23.56	26.12	29.25	32.70	36.12	38.31	40.31
25	22.41	23.65	25.16	27.87	31.19	34.85	38.48	40.80	42.91
26	23.89	25.21	26.82	29.70	33.22	37.11	40.96	43.42	45.67
27	25.43	26.83	28.53	31.60	35.34	39.47	43.56	46.18	48.56
28	26.98	28.47	30.28	33.54	37.52	41.92	46.27	49.05	51.59
29	28.53	30.11	32.04	35.51	39.74	44.42	49.06	52.03	54.73
30	30.04	31.73	33.77	37.47	41.98	46.97	51.91	55.08	57.97
31	31.49	33.28	35.46	39.39	44.19	49.51	54.79	58.18	61.27
32	32.83	34.73	37.04	41.22	46.34	52.02	57.67	61.30	64.61
33	34.02	36.04	38.49	42.94	48.39	54.46	60.50	64.39	67.94
34	35.02	37.16	39.76	44.48	50.29	56.77	63.24	67.41	71.22
35	35.79	38.05	40.80	45.81	51.99	58.90	65.83	70.31	74.41
36	36.29	38.66	41.57	46.86	53.43	60.81	68.22	73.02	77.43
37	36.48	38.97	42.02	47.60	54.56	62.41	70.34	75.49	80.23
38	36.33	38.92	42.12	47.99	55.34	63.67	72.13	77.64	82.73
39	35.82	38.51	41.83	47.97	55.70	64.52	73.52	79.41	84.85

Longitudinal reference ranges for the middle cerebral artery peak systolic velocity (based on 566 observations in 161 low-risk pregnancies).

<i>Gestational age (weeks)</i>	<i>Percentiles</i>								
	2.5	5	10	25	50	75	90	95	97.5
21	8.50	9.01	9.64	10.81	12.30	14.02	15.80	16.98	18.08
22	8.67	9.19	9.83	11.03	12.56	14.31	16.14	17.34	18.48
23	8.89	9.43	10.10	11.33	12.90	14.71	16.59	17.83	19.00
24	9.17	9.73	10.42	11.69	13.32	15.20	17.14	18.44	19.65
25	9.50	10.08	10.79	12.12	13.81	15.77	17.80	19.15	20.41
26	9.87	10.48	11.22	12.61	14.38	16.42	18.55	19.96	21.28
27	10.29	10.92	11.71	13.16	15.02	17.16	19.39	20.88	22.26
28	10.75	11.42	12.24	13.77	15.72	17.98	20.33	21.89	23.36
29	11.26	11.96	12.83	14.44	16.49	18.88	21.36	23.01	24.56
30	11.81	12.55	13.47	15.17	17.34	19.86	22.48	24.23	25.87
31	12.41	13.19	14.16	15.96	18.26	20.92	23.71	25.56	27.30
32	13.06	13.88	14.91	16.81	19.25	22.08	25.03	27.00	28.85
33	13.75	14.63	15.71	17.73	20.31	23.32	26.46	28.56	30.53
34	14.50	15.42	16.57	18.72	21.46	24.66	28.00	30.23	32.33
35	15.29	16.27	17.50	19.77	22.69	26.09	29.65	32.03	34.27
36	16.14	17.18	18.48	20.90	24.01	27.63	31.43	33.97	36.35
37	17.05	18.16	19.53	22.11	25.42	29.28	33.33	36.04	38.59
38	18.01	19.19	20.66	23.40	26.92	31.04	35.36	38.25	40.98
39	19.04	20.29	21.85	24.77	28.52	32.92	37.53	40.62	43.53

Longitudinal reference ranges for the middle cerebral artery time averaged maximum velocity (cm/s) based on 566 observations in 161 low-risk pregnancies

<i>Gestational age (weeks)</i>	<i>Percentiles</i>								
	2.5	5	10	25	50	75	90	95	97.5
21	1.12	1.18	1.26	1.41	1.60	1.82	2.04	2.19	2.33
22	1.18	1.25	1.33	1.49	1.69	1.92	2.15	2.30	2.45
23	1.24	1.32	1.41	1.57	1.78	2.01	2.25	2.41	2.56
24	1.31	1.38	1.47	1.64	1.86	2.10	2.35	2.52	2.67
25	1.36	1.44	1.54	1.71	1.94	2.19	2.45	2.62	2.78
26	1.42	1.50	1.60	1.78	2.01	2.26	2.53	2.71	2.87
27	1.46	1.55	1.65	1.83	2.06	2.33	2.60	2.78	2.95
28	1.50	1.58	1.69	1.88	2.11	2.38	2.66	2.84	3.01
29	1.53	1.61	1.71	1.91	2.15	2.42	2.70	2.88	3.05
30	1.54	1.62	1.73	1.92	2.16	2.44	2.72	2.90	3.07
31	1.54	1.62	1.73	1.92	2.16	2.43	2.71	2.90	3.07
32	1.52	1.61	1.71	1.90	2.14	2.41	2.69	2.87	3.04
33	1.49	1.58	1.68	1.87	2.10	2.37	2.64	2.82	2.98
34	1.45	1.53	1.63	1.81	2.04	2.30	2.57	2.74	2.90
35	1.39	1.47	1.56	1.74	1.96	2.21	2.47	2.64	2.80
36	1.32	1.39	1.48	1.65	1.86	2.11	2.36	2.52	2.67
37	1.23	1.30	1.39	1.55	1.75	1.98	2.22	2.38	2.52
38	1.14	1.20	1.29	1.44	1.63	1.85	2.07	2.22	2.36
39	1.04	1.10	1.18	1.32	1.49	1.70	1.91	2.05	2.18

Longitudinal reference ranges for the middle cerebral artery pulsatility index based on 566 observations in 161 low-risk pregnancies

Table 5 Longitudinal reference ranges for the cerebroplacental Doppler ratio (formed as a ratio of the middle cerebral and umbilical artery pulsatility index) based on 550 observations in 161 low-risk pregnancies

GA (weeks)	Percentile								
	2.5 th	5 th	10 th	25 th	50 th	75 th	90 th	95 th	97.5 th
21	0.82	0.90	1.00	1.18	1.41	1.67	1.94	2.11	2.27
22	0.90	0.98	1.09	1.28	1.52	1.79	2.07	2.25	2.42
23	0.98	1.07	1.18	1.38	1.63	1.92	2.20	2.39	2.56
24	1.06	1.16	1.27	1.48	1.74	2.04	2.33	2.52	2.70
25	1.14	1.24	1.36	1.58	1.85	2.15	2.46	2.65	2.83
26	1.22	1.32	1.45	1.67	1.95	2.26	2.58	2.78	2.96
27	1.30	1.40	1.53	1.76	2.05	2.37	2.69	2.90	3.08
28	1.37	1.47	1.60	1.84	2.14	2.46	2.79	3.00	3.19
29	1.42	1.53	1.67	1.91	2.21	2.55	2.88	3.09	3.29
30	1.47	1.58	1.72	1.97	2.28	2.62	2.95	3.17	3.37
31	1.51	1.62	1.76	2.01	2.32	2.67	3.01	3.23	3.43
32	1.53	1.64	1.78	2.04	2.35	2.70	3.05	3.27	3.47
33	1.53	1.65	1.79	2.05	2.36	2.72	3.07	3.29	3.49
34	1.52	1.63	1.78	2.04	2.35	2.71	3.06	3.29	3.49
35	1.49	1.60	1.74	2.00	2.32	2.68	3.03	3.26	3.46
36	1.44	1.55	1.69	1.95	2.27	2.62	2.97	3.20	3.41
37	1.37	1.48	1.62	1.88	2.19	2.54	2.89	3.12	3.33
38	1.29	1.40	1.53	1.78	2.09	2.44	2.79	3.01	3.22
39	1.19	1.29	1.43	1.67	1.97	2.31	2.66	2.88	3.09

GA, gestational age.