

Mémoire de Maîtrise en médecine No 5733
« **HEAD CIRCUMFERENCE MEASUREMENTS IN
FETUS AND NEWBORN CHILDREN: HOW
ACCURATE ARE WE? »**

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Zürich, 24.05.2018

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1 Abbreviations

EFW	Estimated fetal weight
HC	Head circumference
BPD	Biparietal diameter
OFD	Occipitofrontal diameter
DO_1	HC measurement on the day of delivery, by midwife
DO_2	HC measurement on the day of delivery, by Fanny, student
D2	HC measurement 2 days after the delivery, by Fanny, student

2 Appendix 1

Patient nr	Patient age	Maternal weight (kg)	Maternal height (cm)	Maternal BMI	Education	Origin	Ethnicity	Parity (incl. CS from study)	Previous delivery mode: 0-none 1-Vaginal, 2- instrumental, 3-CS 4- Abortion 5-Ectopic pregnancy	Weeks of gestation
1	1980	/	173	/	University education	Germany	Caucasian	2	3	38+3
2	1981	46	163	17.3	Other	Russia	Caucasian	2	3	38
3	1977	58	166	21	University education	Switzerland	Caucasian	2	3	38+1
4	1973	50	160	19.5	University education	Germany	Caucasian	2	3	40
5	1984	48	152	20.8	University education	Germany	Caucasian	1	0	38+2
6	1978	63	183	18.8	University education	Switzerland	Caucasian	2	3	38+5
7	1978	57	158	22.8	Other	Eritrea	Afro-Caribbean	4	1,3,3	38+3
8	1983	64	170	22.1	Other	Switzerland	Caucasian	2	1	38+2
9	1981	88	167	31.6	Other	Ecuador	Caucasian	2	3	38+3
10	1989	56	157	22.7	Other	Switzerland	Caucasian	2	2	38+3
11	1992	63	171	21.5	Other	Switzerland	Caucasian	1	0	38+3
12	1987	94	163	35.4	Other	Tunisia	Caucasian	1	0	37+5
13	1986	62	170	21.5	Other	Switzerland	Caucasian	2	3	39
14	1980	56	165	20.6	University education	Germany	Caucasian	1	0	38
15	1974	65	169	22.8	University education	Germany	Caucasian	3	3,3	38+1
16	1980	/	170	/	University education	Italy	Caucasian	2	3	38+3
17	1982	83	175	27.1	Other	Somalia	Afro-Caribbean	2	3	38+5
18	1979	/	168	/	University education	Switzerland	Caucasian	3	3,3	39
19	1983	86	164	32	Other	/	Caucasian	3	4,3,4,3	38+4
20	1977	73	183	21.8	University education	Switzerland	Caucasian	2	3	37
21	1984	/	159	/	University education	Austria	Caucasian	2	3	38+3
22	1972	74	161	28.5	Other	Croatia	Caucasian	2	3,4,4	38+5
23	1975	/	164	/	University education	Switzerland	Caucasian	4	1,4,1,3,4	38+5
24	1981	/	168	/	Other	/	Asian	2	3	38+3
25	1987	83	163	31.2	Other	Macedonia	Caucasian	2	4,3	38
26	1983	65	166	23.6	Unknown	Romania	Caucasian	2	1	37+2
27	1983	70	153	29.9	Other	Irak	Mixed	4	3,3,1	38
28	1993	68	170	23.5	Other	Portugal	Mediterranean	3	3,4,3	40+1
29	1982	59	165	21.7	University education	/	Caucasian	1	0	38+1
30	1980	49	169	17.2	University education	Germany	Caucasian	2	4,3	38+2
31	1987	/	160	/	Unknown	Macedonia	Caucasian	4	1,3,3	38+3
32	1990	/	170	/	Other	Switzerland	Caucasian	2	3	38+1
33	1988	/	/	/	Other	Slovakia	Caucasian	1	0	39+4
34	1972	/	/	/	University education	Singapore	Asian	2	4,3	38+6
35	1991	/	156	/	Other	Italy	Caucasian	2	4,3	38+6
36	1988	75	157	30.4	Other	Somalia	Afro-Caribbean	5	1,1,4,3,3	39
37	1979	67	174	22.1	Other	Germany	Caucasian	2	3	37
38	1985	66	170	22.8	Other	Latvia	Caucasian	2	3	38+5
39	1991	61	156	25.1	Other	Portugal	Caucasian	1	0	41
40	1982	/	168	/	Unknown	/	Caucasian	3	3,3	38+1
41	1983	/	/	/	Other	Portugal	Mediterranean	1	0	38+2
42	1977	70	172	23.7	Other	Germany	Caucasian	2	4,3,4,4,5	37+1
43	1977	57	169	20	University education	Germany	Caucasian	1	0	40+4
44	1985	64	155	26.6	Angestellte	Macedonia	Caucasian	2	1	38+4
45	1986	/	168	/	Vocational training	Kosovo	Caucasian	2	1	38+4
46	1977	70	168	24.8	Unknown	Switzerland	Caucasian	2	1,4	37
47	1977	/	/	/	Unknown	Spain	Caucasian	2	3,4	38+1
48	1983	69	170	23.9	Vocational training	/	Mixed	2	3	37+1
49	1986	/	166	/	Other	Kosovo	Caucasian	2	3	38+2
50	1987	64	155	26.6	University education	Pakistan	Oriental	2	3	38+5
51	1986	75	164	27.9	Other	Chile	Mixed	2	3	37+3

3 Appendix 2

Patient nr	Sexe (M/F)	EFW (g)	HC (cm)	BPD (mm)	OFD (mm)	Birth length (cm)	Birth weight (g)	D0_1 (Midwife) (cm)	D0_2 (Fanny) (cm)	D2 (cm)
1	F	3169	33.48	98.5	114.1	48.5	2930	34.4	34.4	33.5
2	F	2961	32.99	93.5	115.4	47.5	2780	34.5	34	34
3	F	3426	34.25	94.5	121.8	49	3090	34.5	35.5	34
4	F	3474	32.88	94.9	113.6	48	3460	35	35	35
5	F	2818	33.33	100.3	111.6	46	2840	34	34.5	33
6	F	3307	33.99	99.4	116.3	50	3820	36.5	36.5	35.5
7	M	3056	33.01	93.1	115.8	47	2820	34	34	33.5
8	M	3257	34.54	97.8	120.9	50	3820	34.5	34.5	34.5
9	F	3207	33.92	97	117.9	47	3140	35	36.7	35
10	F	3244	33.81	97	117.3	48	3230	35	35	34.5
11	M	3323	34.89	101.6	119.8	47	3280	35.5	35.5	34.5
12	M	3069	34.23	97.9	119	48	3120	35.5	35.5	34.5
13	M	3689	34.87	101.4	119.8	54	3820	36	34.5	34.5
14	F	2549	30.85	92	104	47	2380	31.5	31.7	31.5
15	M	3402	36.02	100.8	127	52	3650	36.5	36	35.5
16	M	2876	34.13	98.4	118	48	2950	35	35.5	34
17	F	2984	33.45	96	116	47	2850	34.5	35	35
18	M	2970	36.66	101.8	129.9	50	3560	36.8	36.8	36.8
19	M	3919	33.2	92.5	117.4	50	3640	35.5	34.5	34.5
20	M	3369	33.38	96.6	115.1	49.5	3440	36	36	35.5
21	F	3293	33.32	98.4	113.2	49	3010	35.5	35.5	35
22	M	3914	36.52	98.1	131.9	51	3730	37	37	36
23	F	2776	33.81	98.5	116	50	3030	35	35	34
24	F	2977	32.47	89.3	115.7	48	2790	36	36	35
25	F	4052	33.6	95.7	117.1	50	3990	35.5	35	35
26	F	2778	30.9	87.9	107.8	51	32795	32	32.5	32
27	F	3511	33.34	94	117	51	3300	34.5	34.5	34
28	F	2809	31.65	92	108.8	50.5	2860	34.5	35.2	36.3
29	F	3380	33.9	95.9	118.7	48	2870	34	33	32
30	F	3566	35.47	103	122	49	3480	35	37	36
31	F	2824	34.82	97.4	122.8	50	3230	35.5	35.5	35.5
32	M	3436	35.66	96.2	128.5	50	3560	36.5	36.5	36
33	F	2823	31.63	92.8	108	47	2430	32.5	32.5	33
34	F	3400	33.78	96.3	117.7	52	3470	36	36	35.5
35	F	3851	32.91	97.3	111.7	48	3270	35	35	34
36	F	2898	32.99	89.9	118.2	47	2890	35	35	34.5
37	F	2885	32.41	97	109	47	2930	34.5	34.5	34
38	M	4256	35.42	99	125	53	4415	39	39.2	38
39	F	3185	31.33	93	106	49	3310	34	34.5	33
40	F	3085	32.81	96.3	112	50	3070	35.5	35.5	34.5
41	F	2768	32.09	92.8	110.7	47	2490	34	34	33
42	M	4329	33.53	96.6	116	49	4160	35.5	35.5	34.5
43	F	3660	34.87	100	121	52	3650	36	35.5	35
44	M	2848	34.46	93.1	124.6	51.5	3120	35	35.3	34.3
45	M	3207	32.38	99	107	51	3320	34	34.5	34.5
46	M	3141	33.38	89.1	121	52	2860	33.5	33.5	33
47	F	2962	35.1	96.7	125	46	2940	34	34	33.5
48	F	3422	34.34	102.6	115.6	52	3630	35.5	35.5	35
49	F	3199	31.99	95.5	107.8	47	2980	34	34	33.5
50	F	3407	34.98	98.2	123.1	48	3040	35	35	34
51	M	3308	33.76	97	117	50	3350	33.5	34	33.5