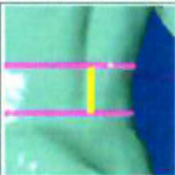
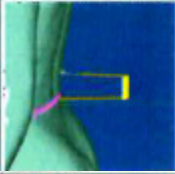

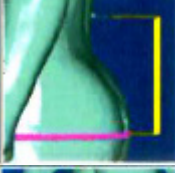
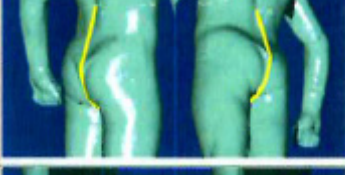
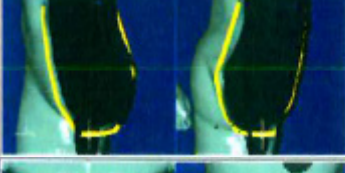
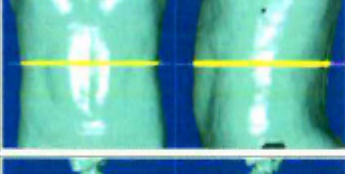

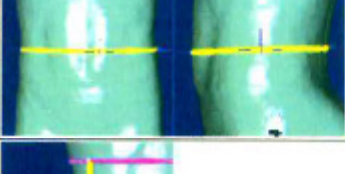



Supplement 1

		5070 Waist to high hip back
		5075 Distance waistband-high hip back
		5080 Waist to buttock
		5085 Distance waistband - buttock
		6012 Crotch length, rear
		6015 Crotch length at waistband
		6510 Waist girth
		6512 Middle Hip
		6520 Waist band
		7011 Waist to buttock height right

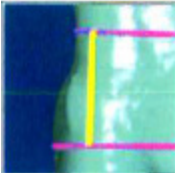
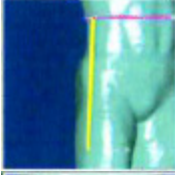
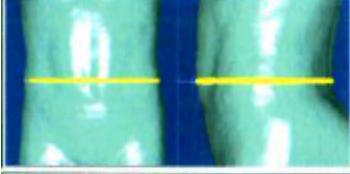
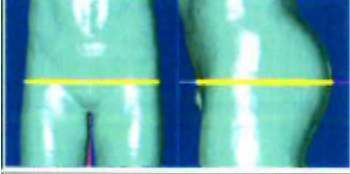
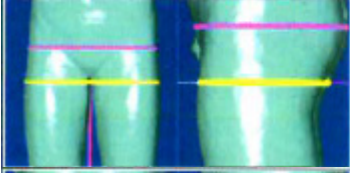
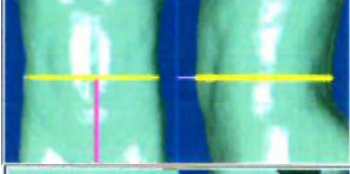
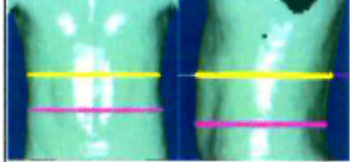
		7016 Waistband to buttock height right
		7021 Waist to hip/thigh right
		7510 High hip girth
		7520 Buttock girth
		7525 Hip girth
		7540 Belly circumference
		7545 Maximum belly circumference

Table S1. Catalog of the body scanner values used in the study.

The table shows all 17 automatically generated 3D body scanner values, used in the study. The yellow lines show the measurement planes, the purple lines show important orientation planes or boundary points when measuring distances.

Variables	N	mean	SD	95% CI	min	max
gestational age at pelvimetry [weeks]	72	36.5	0.6	36.42 ; 36.68	35.5	39.5
BMI [kg/m ²] before pregnancy	73	22.9	3.3	22.10 ; 23.63	18.9	31.7
BMI [kg/m ²] at diagnostics	67	27.9	3.6	27.00 ; 28.75	21.9	38.6
BMI gain [kg/m ²]	67	4.9	1.7	4.48 ; 5.29	0.0	8.2
MRI Pelvimetry						
obstetrical conjugate [cm]	72	12.8	0.9	12.56 ; 12.99	10.6	14.8
pelvic width [cm]	72	13.5	1.0	13.29 ; 13.76	11.2	15.9
pelvic constriction [cm]	72	11.7	1.0	11.49 ; 11.96	9.3	14.0
sacral pelvic outlet diameter [cm]	72	13.3	0.9	13.05 ; 13.49	11.1	15.3
coccygeal-pelvic outlet [cm]	72	8.7	1.0	8.47 ; 8.93	5.0	10.8
interspinous distance [cm]	72	11.1	0.9	11.31 ; 11.10	8.6	13.1
intertuberous distance [cm]	72	14.1	1.3	13.83 ; 14.45	10.3	16.9
Pelvimeter						
external conjugate [cm]	72	23.5	2.1	23.01 ; 24.01	19.0	29.0
distantia spinarum [cm]	72	24.1	1.8	23.65 ; 24.48	19.5	27.0
distantia intercristarum [cm]	72	27.8	1.9	27.34 ; 28.24	24.0	36.0
distantia trochanterica [cm]	71	33.3	2.3	32.79 ; 33.88	27.0	39.0
3D bodyscan						
waist to high hip back (5070) [cm]	65	7.4	1.4	7.00 ; 7.72	3.7	10.5
distance waistband to high hip back (5075) [cm]	65	4.1	2.3	3.50 ; 4.62	0.1	8.5
waist to buttock (5080) [cm]	65	21.3	1.5	20.94 ; 21.70	17.8	24.8
distance waistband to buttock (5085) [cm]	65	17.2	2.4	16.56 ; 17.76	12.3	21.8
scrotch length, rear (6012) [cm]	65	42.7	2.6	42.06 ; 43.38	36.3	49.0
scotch length at waistband (6015) [cm]	65	70.6	9.8	68.17 ; 73.03	54.2	92.4
waist girth (6510) [cm]	65	100.9	7.5	99.03 ; 102.76	85.9	118.4
middle hip (6512) [cm]	65	112.3	8.8	110.08 ; 114.45	95.9	135.6
waist band (6520) [cm]	65	104.7	7.4	102.91 ; 106.58	89.4	122.7
waist to buttock high right (7011) [cm]	65	20.9	1.6	20.48 ; 21.26	17.4	24.5
waistband to buttock high right (7016) [cm]	65	14.9	3.2	14.08 ; 15.66	8.7	19.9
waist to hip right (7021) [cm]	65	35.5	2.0	35.05 ; 36.56	30.8	40.4
high hip girth (7510) [cm]	65	110.8	8.2	108.75 ; 112.80	94.2	134.3
buttock girth (7520) [cm]	65	109.8	9.2	107.54 ; 112.12	92.1	134.2
hip girth (7525) [cm]	65	110.9	9.3	108.56 ; 113.18	92.4	134.7
belly circumference (7540) [cm]	65	109.1	7.8	107.21 ; 111.08	93.3	131.7
maximum belly circumference (7545) [cm]	65	110.2	8.0	108.17 ; 112.14	93.7	133.4
external conjugate [cm]	68	29.5	2.4	28.92 ; 30.07	24.7	36.2
distantia spinarum [cm]	68	27.2	2.2	26.64 ; 27.71	22.2	32.4
distantia intercristarum [cm]	68	34.1	2.7	33.46 ; 34.78	29.4	43.6
distantia trochanterica [cm]	68	39.0	3.4	38.21 ; 39.88	32.0	46.2
distance crista to trochanter (right) [cm]	68	19.1	3.8	18.15 ; 19.99	11.5	28.5
delivery						
gestational age at delivery [weeks]	70	39.4	1.0	39.25 ; 39.63	37.2	41.4
birth weight [g]	71	3323.2	340.3	3242.67 ; 3403.78	2690.0	4460.0
pH value	71	7.23	0.09	7.21 ; 7.25	6.95	7.39
APGAR score 5 minutes	71	9.3	0.9	9.07 ; 9.49	6.0	10.0

Table S2: Characteristics of the overall study population (N=73), including delivery from vertex position as well as primary cesarean section.

The numbers in brackets behind the body scanner values correspond to the description from the measurement value catalog (Supplement 1).

N, number; *BMI*, Body-Mass-Index; *SD*, standard deviation; *95% CI*, 95%-confidence interval; *min*, minimum; *max*, maximum; *5' APGAR-value*, Appearance-Pulse-Grimace-Activity-Respiration value 5minutes after delivery