

**On-line Table 1: Mean, SD, and CI for SI measurements**

Gestational Age wk	US 2D			US 3D			MRI		
	No.	Mean ± SD	95% CI	No.	Mean ± SD	95% CI	No.	Mean ± SD	95% CI
21	4	11.8 ± 0.94	10.30–13.28	15	12.7 ± 1.04	12.16–13.31			
22	10	12.5 ± 1.27	11.55–13.37	10	13.6 ± 1.01	12.86–14.30			
23	8	12.8 ± 0.66	12.29–13.38	9	14.4 ± 1.28	13.45–15.42			
24	4	13.9 ± 0.65	12.91–14.96	8	15.2 ± 1.48	13.97–16.45			
25	16	15.2 ± 0.96	14.67–15.69	9	16.0 ± 1.10	15.12–16.81			
26	13	16.1 ± 1.23	15.38–16.86	11	17.0 ± 1.36	16.03–17.86			
27	16	16.9 ± 1.27	16.23–17.58	12	18.6 ± 1.07	17.96–19.31	5	14.1 ± 0.65	13.31–14.93
28	18	17.4 ± 0.94	16.92–17.85	11	19.2 ± 2.01	17.85–20.55	10	14.7 ± 0.63	14.22–15.12
29	12	18.7 ± 1.03	18.02–19.34	11	20.1 ± 1.15	19.36–20.91	13	15.9 ± 1.32	15.15–16.74
30	21	18.7 ± 0.71	18.39–19.04	11	21.0 ± 1.65	19.93–22.15	16	17.7 ± 1.21	17.06–18.35
31	22	19.4 ± 1.10	18.89–19.87	23	20.8 ± 1.84	19.96–21.55	26	17.9 ± 0.98	17.51–18.30
32	12	19.3 ± 0.83	18.81–19.87	15	22.2 ± 2.26	20.89–23.40	27	18.6 ± 1.27	18.05–19.05
33	14	20.6 ± 1.72	19.61–21.60	8	22.8 ± 1.23	21.69–23.97	16	19.6 ± 0.88	19.11–20.06
34	10	20.6 ± 1.25	19.73–21.51	11	23.3 ± 2.74	21.43–25.11	15	19.4 ± 0.92	18.92–19.93
35	13	21.6 ± 1.19	20.90–22.33	8	23.2 ± 2.42	21.18–25.22	23	20.2 ± 1.56	19.52–20.86

**On-line Table 2: Mean, SD, and CI for AP measurements**

Gestational Age (wk)	US 2D			US 3D			MRI		
	No.	Mean ± SD	95% CI	No.	Mean ± SD	95% CI	No.	Mean ± SD	95% CI
21	4	7.8 ± 0.79	6.58–9.10	15	8.2 ± 1.35	7.46–8.96			
22	10	9.3 ± 0.96	8.57–9.94	10	9.2 ± 1.48	8.11–10.23			
23	8	8.8 ± 0.95	7.99–9.57	9	8.9 ± 1.43	7.82–10.02			
24	4	9.6 ± 0.82	8.34–10.94	8	9.9 ± 0.74	9.27–10.51			
25	16	11.0 ± 0.93	10.49–11.48	9	11.3 ± 1.54	10.10–12.48			
26	13	11.5 ± 1.59	10.52–12.44	11	11.0 ± 1.59	9.90–12.04			
27	16	11.4 ± 0.84	10.94–11.83	12	12.3 ± 1.64	11.21–13.29	5	9.6 ± 0.83	8.60–10.67
28	18	12.4 ± 1.12	11.83–12.94	11	12.3 ± 1.86	11.07–13.57	10	10.2 ± 0.90	9.59–10.88
29	12	12.6 ± 1.28	11.78–13.41	11	12.9 ± 0.91	12.24–13.47	13	11.3 ± 1.18	10.55–11.97
30	21	13.2 ± 1.32	12.60–13.80	11	13.7 ± 1.72	12.57–14.88	16	11.9 ± 1.11	11.26–12.44
31	22	14.2 ± 1.12	13.70–14.69	23	14.4 ± 2.12	13.52–15.35	26	12.3 ± 1.06	11.91–12.77
32	12	14.0 ± 1.44	13.12–14.95	15	14.9 ± 2.02	13.74–15.98	27	13.0 ± 0.83	12.63–13.28
33	14	15.3 ± 1.30	14.53–16.02	8	13.9 ± 2.49	11.83–16.00	16	13.3 ± 0.84	12.84–13.73
34	10	15.7 ± 1.54	14.63–16.83	11	15.5 ± 2.29	14.00–17.08	15	13.6 ± 1.10	13.01–14.23
35	13	15.9 ± 1.17	15.20–16.62	8	15.8 ± 2.52	13.70–17.92	23	14.8 ± 1.41	14.19–15.40

**On-line Table 3: Mean, SD, and CI for perimeter measurements**

Gestational Age (wk)	US 2D			US 3D			MRI		
	No.	Mean ± SD	95% CI	No.	Mean ± SD	95% CI	No.	Mean ± SD	95% CI
21	4	40.7 ± 3.53	35.09–46.34	15	42.3 ± 4.49	39.84–44.81			
22	10	45.1 ± 4.29	42.05–48.18	10	46.4 ± 2.86	44.32–48.42			
23	8	45.4 ± 2.88	42.96–47.77	9	47.7 ± 4.22	44.48–50.96			
24	4	49.9 ± 1.93	46.84–53.00	8	49.8 ± 4.15	46.37–53.30			
25	16	53.1 ± 4.31	50.82–55.41	9	54.8 ± 4.76	51.12–58.44			
26	13	57.6 ± 4.33	54.95–60.19	11	58.9 ± 5.68	55.04–62.67			
27	16	59.1 ± 4.67	56.58–61.56	12	63.5 ± 4.83	60.43–66.56	5	52.0 ± 3.25	47.95–56.01
28	18	60.5 ± 3.74	58.65–62.37	11	67.2 ± 8.40	61.50–72.79	10	53.4 ± 2.96	51.32–55.55
29	12	64.5 ± 3.61	62.20–66.79	11	67.0 ± 5.42	63.37–70.65	13	56.1 ± 3.50	54.00–58.23
30	21	65.3 ± 3.57	63.63–66.88	11	69.6 ± 6.66	65.08–74.03	16	62.9 ± 4.88	60.34–65.54
31	22	66.3 ± 3.82	64.63–68.02	23	71.5 ± 6.41	68.69–74.24	26	66.3 ± 4.28	64.56–68.01
32	12	67.7 ± 4.90	64.62–70.84	15	76.7 ± 9.79	71.25–82.10	27	67.7 ± 4.58	65.86–69.49
33	14	71.3 ± 2.52	69.89–72.80	8	78.7 ± 3.27	76.01–81.47	16	70.8 ± 4.09	68.62–72.98
34	10	74.4 ± 4.30	71.30–77.46	11	80.5 ± 8.58	74.70–86.23	15	73.1 ± 5.45	70.09–76.13
35	13	75.0 ± 3.09	73.12–76.85	8	80.3 ± 9.60	72.26–88.32	23	77.0 ± 5.93	74.40–79.53

**On-line Table 4: Mean, SD, and CI for SA measurements**

GA (wk)	US 2D			US 3D			MRI		
	No.	Mean ± SD	95% CI	No.	Mean ± SD	95% CI	No.	Mean ± SD	95% CI
21	4	98.4 ± 12.46	78.59–118.26	15	99.0 ± 17.38	89.37–108.63			
22	10	115.0 ± 12.79	105.82–124.12	10	122.5 ± 17.01	110.33–134.67			
23	8	124.3 ± 14.78	111.89–136.60	9	122.6 ± 21.52	106.02–139.10			
24	4	140.4 ± 9.92	124.58–156.14	8	142.0 ± 20.92	124.51–159.49			
25	16	171.7 ± 16.06	163.12–180.23	9	164.9 ± 29.64	142.11–187.67			
26	13	192.1 ± 29.18	174.51–209.78	11	185.3 ± 22.08	170.44–200.11			
27	16	199.4 ± 23.20	187.02–211.74	12	224.9 ± 26.14	208.31–241.53	5	141.2 ± 10.29	128.40–153.94
28	18	222.0 ± 27.07	208.56–235.49	11	237.4 ± 53.87	201.17–273.56	10	152.5 ± 15.17	141.61–163.32
29	12	250.4 ± 21.27	236.85–263.89	11	247.9 ± 38.21	222.24–273.58	13	175.1 ± 20.87	162.46–187.68
30	21	256.7 ± 22.05	246.70–266.78	11	277.1 ± 39.49	250.56–303.62	16	197.8 ± 24.66	184.70–210.98
31	22	273.6 ± 24.11	262.95–284.33	23	290.2 ± 43.78	271.24–309.10	26	214.5 ± 22.54	205.41–223.62
32	12	279.3 ± 24.93	263.44–295.12	15	311.8 ± 45.62	286.54–337.06	27	231.6 ± 24.45	221.90–241.25
33	14	319.3 ± 26.86	303.81–334.83	8	320.9 ± 31.83	294.26–347.49	16	243.7 ± 15.91	235.21–252.17
34	10	346.8 ± 35.43	321.42–372.10	11	348.8 ± 77.43	296.80–400.84	15	250.1 ± 23.53	237.02–263.09
35	13	352.0 ± 23.32	337.94–366.12	8	343.4 ± 66.15	288.07–398.68	23	283.8 ± 39.22	266.79–300.71

Note:—GA indicates gestational age.

**On-line Table 5: Bonferroni multiple comparison of estimated marginal means between 3 imaging modalities for SI and AP**

Imaging Modality	SI			AP		
	Mean Difference	P	95% CI of the Difference	Mean Difference	P	95% CI of the Difference
US 2D vs MRI	1.636	<.001	1.259 to 2.012	1.589	<.001	1.212 to 1.967
US 2D vs US 3D	−1.694	<.001	−2.042 to −1.345	−0.186	.601	−0.535 to 0.163
MRI vs US 3D	−3.329	<.001	−3.727 to −2.932	−1.776	<.001	−2.174 to −1.378

**On-line Table 6: Bonferroni multiple comparison between estimated marginal means between 3 imaging modalities for perimeter and SA**

Imaging Modality	Perimeter			SA		
	Mean Difference	P	95% CI of the Difference	Mean Difference	P	95% CI of the Difference
US 2D vs MRI	2.661	<.001	1.238 to 4.085	66.408	<.001	58.084 to 74.732
US 2D vs US 3D	−4.435	<.001	−5.751 to −3.119	−10.984	.002	−18.677 to −3.290
MRI vs US 3D	−7.096	<.001	−8.597 to −5.595	−77.392	<.001	−86.166 to −68.617