

Table 2. Least Squares Mean Differences in Prenatal Ultrasound Exposure^a

Characteristic	Study Group, Mean (95% CI)		
	ASD (n = 107)	Developmental Delay (n = 104)	Typical Development (n = 209)
Total No. of scans	5.9 (5.2-6.6)	6.1 (5.4-6.8)	6.3 (5.8-6.8)
Total duration of ultrasound exposure, s	3128.4 (2807.5-3449.3)	3319.0 (3006.6-3631.4)	3508.0 (3272.7-3743.4)
Depth of ultrasonography, cm	13.4 (13.1-13.8)	13.4 (13.1-13.8)	12.9 (12.7-13.2)
Frame rate of ultrasonography, Hz	40.3 (38.6-42.0)	40.4 (38.8-42.1)	41.3 (40.1-42.6)
Mechanical index ^b	1.09 (1.07-1.10)	1.09 (1.08-1.11)	1.08 (1.07-1.09)
Thermal index ^c	0.20 (0.19-0.21)	0.20 (0.19-0.21)	0.20 (0.19-0.20)
Doppler exposure, s	177.4 (136.5-218.3)	218.7 (178.9-258.5)	189.0 (159.0-219.0)
3-D imaging exposure	79.1 (58.0-100.1)	71.0 (50.5-91.5)	92.1 (76.6-107.5)
4-D imaging exposure	133.2 (94.4-171.9)	111.0 (73.3-148.7)	136.1 (107.7-164.5)

ASDとは自閉症群。正常群との比較では超音波の深さ(depth)が関係しているようです。

Characteristic	Study Group, Mean (95% CI)		
	ASD (n = 107)	Developmental Delay (n = 104)	Typical Development (n = 209)
First Trimester			
Total No. of ultrasound scans	0.5 (0.4-0.6)	0.5 (0.4 to 0.6)	0.6 (0.5-0.7)
Total duration of ultrasound exposure, s	290.4 (212.8-368.0)	270.8 (195.3 to 346.3)	406.4 (349.5-463.3)
Depth of ultrasonography, cm	12.5 (12.0-13.0)	11.6 (11.1 to 12.1)	11.6 (11.3-12.0)
Frame rate of ultrasonography, Hz	46.5 (41.6-51.3)	49.0 (44.2 to 53.7)	42.8 (39.6-46.0)
Doppler exposure, s	8.7 (3.6-13.9)	4.3 (-0.8 to 9.3)	7.1 (3.3-10.8)
3-D imaging exposure	9.2 (3.5-15.0)	9.5 (3.9 to 15.1)	11.4 (7.2-15.7)
4-D imaging exposure	6.6 (1.0-12.2)	0.8 (-4.7 to 6.2)	12.5 (8.4-16.6)
Second Trimester			
Total No. of ultrasound scans	1.9 (1.7-2.1)	2.0 (1.8 to 2.2)	2.0 (1.8-2.1)
Total duration of ultrasound exposure, s	1687.6 (1493.8-1881.4)	1877.7 (1689.1 to 2066.4)	2011.0 (1868.9-2153.1)
Depth of ultrasonography, cm	12.9 (12.6-13.3)	12.8 (12.4 to 13.2)	12.5 (12.2-12.7)
Frame rate of ultrasonography, Hz	44.5 (42.5-46.5)	43.5 (41.7 to 45.4)	45.8 (44.4-47.2)
Doppler exposure, s	59.9 (46.2-73.6)	72.8 (59.5 to 86.2)	70.6 (60.6-80.7)
3-D imaging exposure	41.6 (26.9-56.2)	41.2 (27.0 to 55.5)	49.7 (39.0-60.5)
4-D imaging exposure	66.1 (46.4-85.8)	61.2 (42.1 to 80.4)	70.7 (56.3-85.2)
Third Trimester			
Total No. of ultrasound scans	3.5 (2.9-4.1)	3.5 (2.9 to 4.1)	3.6 (3.1-4.0)
Total duration of ultrasound exposure, s	1147.4 (964.9-1329.8)	1172.1 (994.5 to 1349.7)	1104.6 (970.7-1238.4)
Depth of ultrasonography, cm	15.1 (14.7-15.5)	15.3 (15.0 to 15.7)	14.8 (14.5-15.0)
Frame rate of ultrasonography, Hz	28.8 (27.1-30.4)	30.4 (28.7 to 32.0)	29.1 (27.9-30.3)
Doppler exposure, s	91.8 (63.5-120.0)	112.4 (84.9 to 139.9)	99.3 (78.6-120.0)
3-D imaging exposure	28.5 (17.8-39.2)	20.4 (10.0 to 30.9)	31.5 (23.7-39.4)
4-D imaging exposure	59.8 (34.2-85.4)	51.0 (26.1 to 75.9)	54.2 (35.4-73.0)

妊娠の初期、中期、後期での解析です。