

TABLE 1: Ultrasound and neurosonography

	Group A: IAI (n=41)	Group B: no-IAI (n=54)	Group C: Control (n=48)	p1 (A vs. B)	p2 (A vs. C)	p3 (B vs. C)
GA at ultrasound	27.9 (28.7-31-1)	29.6 (27-31.2)	29.4 (26.6 – 31.3)	0.380	0.481	0.900
Cause of admission	PTL: 13(31.7%) PPROM:28(68.3%)	PTL: 48 (88.9%) PPROM: 6 (11.1%)		<0.001	-	-
EFW < 10th centile	11 (26.8%)	7 (13.0%)	4 (8.3%)	0.088	0.020	0.452
HC (mm)	253 (235-276.5)	268 (248-287)	273.5 (248.5-288.5)	0.056	0.055	0.843
Corpus callosum Total area (mm ²)	7.15 (5.87-8.12)	7.13 (6.30 – 8.20)	7.81 (7.131-9.108)	0.981 ¹	0.028²	0.014²
Rostrum area (mm ²)	0.324 (0.182 – 0.419)	0.266 (0.147 – 0.361)	0.326 (0.220-0.501)	0.207 ¹	0.878 ²	0.092 ²
Genu area (mm ²)	1.083 (0.779 – 1.307)	0.953 (0.709 – 1.370)	1.193 (0.939-1.437)	0.843 ¹	0.089 ²	0.132 ²
Rostral body area (mm ²)	1.584 (1.256 – 1.691)	1.561 (1.363 – 1.749)	1.793 (1.466-2.030)	0.764 ¹	0.018²	0.002²
Anterior midbody area (mm ²)	0.851 (0.630 – 0.983)	0.805 (0.718 - 0.967)	0.892 (0.783-1.032)	0.754 ¹	0.246 ²	0.126 ²
Posterior midbody area (mm ²)	0.736 (0.544 – 0.858)	0.761 (0.667 – 0.905)	0.877 (0.723-1.071)	0.635 ¹	0.008²	0.007²
Isthmus area (mm ²)	0.521 (0.4593 – 0.66)	0.583 (0.474 – 0.759)	0.695 (0.582-0.878)	0.661 ¹	0.005²	0.007²
Splenium area (mm ²)	2.137 (1.698 – 2.335)	2.020 (1.722 – 2.410)	2.126 (1.808-2.491)	0.889 ¹	0.360 ²	0.358 ²

PTL: Preterm labor; PPROM: Preterm premature rupture of membranes; IAI: intraamniotic infection and/or inflammation; GA: Gestational age; EFW: Estimated fetal weight; HC: Head circumference.

Continuous variables were compared using multiple lineal regression and presented as medians (25th-75th interquartile percentile). Categorical variables were compared using logistic regression and presented as number (%).

¹ Adjusted for fetal weight percentile, fetal sex, head circumference, non-cephalic presentation and for PPROM at admission.

² Adjusted for fetal weight percentile, fetal sex, head circumference and non-cephalic presentation.