

	Normal Vitamin D Status (N = 47)	Vitamin D Deficiency (N = 36)	P
Cord 25 OH Vitamin D (ng/mL) <sup>†</sup>	28.5 ± 8.6	15 ± 3.6	0.000
Gestational Age (weeks) <sup>†</sup>	27.6 ± 2.1	28 ± 2.2	0.3
Birth Weight (g) <sup>†</sup>	1054 ± 367	1148 ± 337	0.08
Race (% White)	19	44	0.02
Sex (% Female)	57	39	0.1
Small for Gestational Age (%)	9	17	0.3
Chorioamnionitis (%)	9	6	0.7
Maternal Preeclampsia (%)	21	31	0.3
Maternal Diabetes (%)	2	3	0.99
Maternal Illicit Drug Use (%)	15	31	0.11
Antenatal Steroids (%)	98	97	1
Antenatal Magnesium Sulfate (%)	64	78	0.17
Apgar Score ≤ 3 at 5 min (%)	6	17	0.17
Respiratory Distress Syndrome (%)	87	86	1
Patent Ductus Arteriosus (%)	38	31	0.4
Chronic Lung Disease (%)	6	6	1
Necrotizing Enterocolitis (%)	4	3	1
Days on Parenteral Nutrition <sup>†</sup>	26 ± 15	23 ± 13	0.3
Type of Enteral Feeding (% Human Milk)	85	78	0.4
Culture Proven Sepsis (%)	0	6	0.19
Days on Lasix <sup>†</sup>	11 ± 12	9.0 ± 10	0.7
Days on Caffeine <sup>†</sup>	44 ± 31	41 ± 30	0.6
Steroid Therapy (%)	2	8	0.6
Lowest Serum Calcium (mg/dL) <sup>†</sup>	8.4 ± 0.7	8.3 ± 0.7	0.9
Hypocalcemia (%)	49	44	0.7
Lowest Serum Phosphorus (mg/dL) <sup>†</sup>	5 ± 1.5	5.1 ± 1.3	0.8
Hypophosphatemia (%)	64	72	0.42
Peak Alkaline Phosphatase (U/L) <sup>†</sup>	663 ± 326	536 ± 217	0.13
Net Bone Mineral Density g/cm <sup>2</sup> <sup>†</sup>	0.10 ± 0.01	0.10 ± 0.01	0.99
Whole Body Bone Mineral Density g/cm <sup>2</sup> <sup>†</sup>	0.12 ± 0.01	0.12 ± 0.01	0.96

<sup>†</sup>denotes mean ± standard deviation