

Table. Exploratory analysis of Associations between 25-hydroxyvitamin D Levels and Neonatal Acute Kidney Injury

Timing of 25-hydroxyvitamin D levels	Neonatal AKI during Days 1-28 after birth only										
	No AKI (n=25)	Any AKI (n=65)	<i>p</i> value ¹	No AKI (n=25)	Stage 1 AKI (n=31)	Stage 2 AKI (n=28)	Stage 3 AKI (n=6)	<i>p</i> value ²	No AKI/ Mild AKI (n=56)	Severe AKI (n=34)	<i>p</i> value ¹
At birth, ng/mL	22±9 (3-44)	19±13 (3-107)	0.2	22±9 (3-44)	17±6 (3-28)	21±18 (8-107)	16±6 (9-27)	0.3	19±8 (3-44)	20±17 (8-107)	0.7
1 month after birth, ng/mL³	52±26 (28-125)	52±29 (18-150)	>0.9	52±26 (28-125)	46±26 (18-106)	55±27 (21-113)	63±53 (22-150)	0.5	49±26 (18-125)	57±31 (21-150)	0.2
Neonatal AKI during Days 1-14 after birth only											
	No AKI (n=36)	Any AKI (n=54)	<i>p</i> value ¹	No AKI (n=36)	Stage 1 AKI (n=30)	Stage 2 AKI (n=20)	Stage 3 AKI (n=4)	<i>p</i> value ²	No AKI/ Mild AKI (n=66)	Severe AKI (n=24)	<i>p</i> value ¹
At birth, ng/mL	20±9 (3-44)	20±14 (3-107)	>0.9	20±9 (3-44)	19±7 (3-35)	22±21 (9-107)	12±3 (9-16)	0.4	19±8 (3-44)	21±19 (9-107)	0.7
Neonatal AKI during Days 15-28 after birth only											
	No AKI (n=44)	Any AKI (n=43)	<i>p</i> value ¹	No AKI (n=44)	Stage 1 AKI (n=22)	Stage 2 AKI (n=17)	Stage 3 AKI (n=3)	<i>p</i> value ²	No AKI/ Mild AKI (n=66)	Severe AKI (n=21)	<i>p</i> value ¹
1 month after birth, ng/mL⁴	53±27 (20-125)	50±30 (18-150)	0.6	53±27 (20-125)	47±30 (18-113)	48±20 (22-88)	84±62 (26-150)	0.2	51±28 (18-125)	54±31 (22-150)	0.7

Continuous data reported as mean ± standard deviation (range). All AKI diagnosed and quantified by neonatal, modified Kidney Disease: Improving Global Outcomes (KDIGO) serum creatinine criteria. Mild AKI=KDIGO stage 1 AKI; Severe AKI=KDIGO stage 2 or 3 AKI.

¹Welch two Sample *t*-test comparing 25(OH) vitamin D in 1) No AKI vs. Any AKI and 2) No/Mild AKI vs. Severe AKI

²One-way ANOVA comparing 25(OH) vitamin D across KDIGO AKI stages

³Seven (7) patients not included due to death or study withdrawal.

⁴Four (4) patients not included due to death or study withdrawal.