

Supplement Content Legend for online publication:

Appendix. Table of VPS diagnoses that are considered complex chronic conditions according to Feudtner et al's ICD-9 list (18) and our modified list, as well as conditions considered non-complex chronic conditions.

Supplemental Table 4. Adjusted odds ratios for predictor variables in hierarchical logistic models of PICU mortality using PRISM III

Supplemental Table 5. Comparison of adjusted odds ratios for predictor variables in hierarchical logistic models of PICU mortality using Feudtner et al's and our modified CCC lists

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Supplemental Table 6: A comparison of included and excluded admissions across clinical and demographic characteristics

Table 4. Adjusted odds ratios for predictor variables in hierarchical logistic models of PICU mortality using PRISM III

Variable	Mortality	
	OR (95% CI)	P value
Chronic conditions (reference is no chronic condition)		
Cardiovascular		
NCCC	0.85 (0.64–1.13)	0.27
CCC	1.42 (1.17–1.73)	<0.001
Respiratory		
NCCC	0.72 (0.51–1.03)	0.07
CCC	1.21 (0.94–1.56)	0.13
Neuromuscular		
NCCC	1.32 (0.84–2.07)	0.22
CCC	2.4 (2–2.8)	<0.001
Congenital/genetic abnormality**		
Oncologic**		
Metabolic/endocrinologic		
NCCC	1.13 (0.39–3.85)	0.84
CCC	1.36 (1.12–1.68)	0.003
Renal		
NCCC	0.92 (0.39–2)	0.84
CCC	1.63 (1.12–2.4)	0.01
Gastrointestinal		
NCCC	0.61 (0.19–2)	0.42
CCC	1.42 (1.11–1.82)	0.005
Hematologic/immunologic		
NCCC	–	–
CCC	2.6 (2.1–3.3)	<0.001
Other		
NCCC	0.76 (0.54–1.05)	0.1
CCC	1.03 (0.49–2)	0.92
Age		
0–3 months (reference)		
3–24 months	0.88 (0.7–1.1)	0.25
> 2 years	0.6 (0.49–0.75)	<0.001
Male gender	0.85 (0.73–0.98)	0.024
Trauma	2.2 (1.7–2.8)	<0.001
PRISM III score	1.23 (1.22–1.24)	<0.001

** Chromosomal abnormalities and oncologic were excluded due to collinearity with PRISM score, as this scoring system includes variables for these conditions.

CCC, complex chronic condition; NCCC, non-complex chronic condition; OR, odds ratios; PRISM, Pediatric Risk of Mortality

Table 5. Comparison of adjusted odds ratios for predictor variables in hierarchical logistic models of PICU mortality using Feudtner et al's and our modified CCC lists

Variable	Feudtner		Modified	
	OR (95% CI)	P value	OR (95% CI)	P value
CCC (reference is no chronic condition)				
Cardiovascular	0.98 (0.84–1.15)	0.84	1.31 (1.11–1.55)	0.002
Respiratory	1.16 (0.89–1.51)	0.27	0.95 (.76–1.19)	0.64
Neuromuscular	0.9 (0.76–1.06)	0.19	1.49 (1.28–1.73)	<0.001
Congenital/Genetic abnormality	1.36 (1.12–1.64)	0.001	1.39 (1.09–1.76)	0.007
Oncologic	2.2 (1.84–2.7)	<0.001	2.6 (2.2–3.2)	<0.001
Metabolic/Endocrinologic	2.3 (1.7–3)	<0.001	2.1 (1.75–2.6)	<0.001
Renal	1.94 (1.36–2.8)	<0.001	1.88 (1.32–2.7)	<0.001
Gastrointestinal	1.64 (1.17–2.3)	0.005	1.19 (0.95–1.49)	0.12
Hematologic/Immunologic	1.87 (1.32–2.6)	<0.001	2.9 (2.4–3.6)	<0.001
Age				
0–3 months (reference)				
3–24 months	0.89 (0.73–1.07)	0.22	0.87 (0.72–1.05)	0.15
> 2 years	0.86 (0.72–1.03)	0.1	0.76 (0.63–0.92)	0.004
Male gender	0.83 (0.73–0.94)	0.003	0.84 (0.74–0.95)	0.005
Trauma	1.27 (1.03–1.56)	0.024	1.52 (1.24–1.87)	<0.001
PIM2 score	2.7 (2.6–2.8)	<0.001	2.6 (2.5–2.7)	<0.001

CCC, complex chronic condition; OR, odds ratios; PIM, Pediatric Index of Mortality