

Table. Multivariable analysis of mortality for pediatric patients presenting to EDs

	Mortality¹ aOR (95% CI)
Pediatric annual volume	
Low (<1800)	1.95 (1.38, 2.75)
Medium (1800-4999)	1.55 (1.28, 1.88)
Medium-high (5000-9999)	1.32 (1.04, 1.67)
High (≥10000)	referent
Age (years)	
<1	2.38 (2.02, 2.80)
1-5	1.07 (0.92, 1.24)
6-10	0.95 (0.79, 1.14)
11-15	1.07 (0.91, 1.27)
16-18	referent
Female sex (referent=male)	0.84 (0.76, 0.93)
Race and ethnicity	
Hispanic	0.84 (0.72, 0.98)
Non-Hispanic Asian or Pacific Islander	1.66 (1.16, 2.39)
Non-Hispanic Black	1.40 (1.23, 1.59)
Non-Hispanic Native American	1.19 (0.62, 2.28)
Non-Hispanic White	referent
Other (per NEDS)	1.30 (1.07, 1.59)
Payor Type	
Public	1.16 (1.03, 1.32)
Private	referent
Other	2.38 (2.02, 2.81)
Median income by zip code	
1-55,999	1.36 (1.15, 1.60)
56,000 – 70,999	1.10 (0.92, 1.31)
71,000 – 93,999	1.16 (0.95, 1.43)
≥94,000	Referent
Complex/chronic care status² (referent=no)	1.63 (1.34, 1.98)
Trauma patient³ (referent=medical patient)	1.32 (1.15, 1.51)
Patient defined as severe⁴ (referent=non-severe)	1515.56 (1175.12, 1954.63)
Rural (referent=urban)	1.09 (0.89, 1.33)
Hospital trauma level I/II (referent = not level I/II)	1.09 (0.90, 1.33)
Hospital census region	
Northeast	Referent
Midwest	0.80 (0.60, 1.07)
South	1.13 (0.87, 1.47)
West	1.01 (0.75, 1.38)

¹ n= 5,947,614, N=25,693,894² Any condition classified as a complex chronic in: Feudtner, C., Feinstein, J.A., Zhong, W. et al. Pediatric complex chronic conditions classification system version 2: updated for ICD-10 and complex medical technology dependence and transplantation. BMC Pediatr 14, 199 (2014)³ Trauma patients defined by assembling a list of trauma diagnoses at time of initial encounter, consistent with the National Trauma Data Standard, and the ICDPIC excluding late effects of injuries⁴ At least one CPT or ICD-10 procedure code indicating severity (eg cardiac arrest, cardiopulmonary resuscitation, central line placement, thoracostomy, and other critical procedures/diagnoses)