

Supplemental Table S1. Site, city, country, principal investigator of WE-ROCK registry, total hospital bed capacity and Intensive Care Unit Bed capacity.

	Site (City)		Principal Investigator	Hospital Bed Capacity	ICU Bed Capacity (excludes NICU)
1	Kings College (London)	United Kingdom	Akash Deep	195	16
2	Bambino Gesu Children's Hospital	Italy	Gabriella Bottari Valeria Raggi	607	32
3	Meyer Children Hospital (Florence)	Italy	Zaccaria Ricci	200	15
4	Gregorio Marañón University Hospital (Madrid)	Spain	Sarah Fernandez LaFever	190	17
5	Medical University (Innsbruck)	Austria	Gerard Cortina	120	10
6	Royal Children's Hospital (Melbourne)	Australia	Ben Gelbart	350	22
7	Hospital for Sick Children (Toronto)	Canada	Michael Zappitelli	279	44
8	Stollery Children's Hospital (Edmonton)	Canada	Rachid Alobaidi	218	30
		United States (State)			
9	Cincinnati Children's Hospital (Cincinnati)	Ohio	Katja Gist	622	82
10	Seattle Children's Hospital (Seattle)	Washington	Shina Menon	407	56
11	Stanford Children's Hospital (Palo Alto)	California	Michaela Damian	249	72
12	Mattel Children's Hospital (Los Angeles)	California	Rachana Srivastava	90	24
13	Children's Hospital Colorado (Aurora)	Colorado	Erin Stenson	434	68
14	Mercy Children's Hospital (Kansas City)	Kansas	Kristin Dolan	390	67
15	St Louis Children's Hospital (St. Louis)	Missouri	Tara Neumyer	350	60
16	University of Iowa Stead Family Children's Hospital (Iowa City)	Iowa	Issa Alhamoud	227	28
17	Texas Children's Hospital (Houston)	Texas	Sameer Thadani	973	160
18	Nationwide Children's Hospital (Columbus)	Ohio	Aimee Bigelow	706	76
19	Children's Hospital of Pittsburgh (Pittsburgh)	Pennsylvania	Dana Fuhrman	313	60
20	Riley Children's Hospital (Indianapolis)	Indiana	Michelle Starr	354	46
21	University of Minnesota Children's Hospital (Minneapolis)	Minnesota	Shanti Balani	254	24
22	C.S. Mott Children's Hospital (Ann Arbor)	Michigan	Stephen Gorga	348	50
23	Children's National (Washington DC)	--	Aadil Kakajiwala	323	73

24	Maria Fareri Children's Hospital at Westchester Medical Center (Valhalla)	New York	Sonia Solomon	146	18
25	Cohen Children's Medical Center (New Hyde Park)	New York	Abby Basalely	112	37
26	Lurie Children's Hospital (Chicago)	Illinois	Theresa Mottes	360	102
27	LeBonheur Children's Hospital (Memphis)	Tennessee	Pilar Anton-Martin	255	30
28	Medical University of South Carolina (Charleston)	South Carolina	David Selewski	199	43
29	Children's of Alabama (Birmingham)	Alabama	Tennille Webb	380	44
30	Children's Healthcare of Atlanta (Atlanta)	Georgia	Stella Shin	679	124
31	Omaha Children's Hospital (Omaha)	Nebraska	Melissa Muff-Luett	247	54
32	Golisano Children's Hospital (Rochester)	New York	Susan Martin	172	28

Supplemental Table S2. Summary of variables collected

Form	Variables	
Demographics and Baseline Form	<ul style="list-style-type: none"> • Age • Sex • Race • Ethnicity • Weight • Height • Body surface area • Body mass index 	<ul style="list-style-type: none"> • Admission diagnosis • Sepsis on admission • Comorbidities • PRISM-III • Baseline serum creatinine • ICU admission creatinine • Admission platelet count • Functional Status Scale
Pre-CRRT Initiation	<ul style="list-style-type: none"> • Urine neutrophil gelatinase associated lipocalin • Sepsis at start • Vasoactive inotrope score • PELOD-2 score 	<ul style="list-style-type: none"> • Cumulative fluid balance from ICU admission • Urine output 24 hours prior to start • Diuretic challenge • Hourly urine output in response to diuretic
Daily CRRT Data (repeating measure x 7 days)	<ul style="list-style-type: none"> • Weight • Urine output (indexed to weight and h) • Serum creatinine • NGAL • Phosphorus • Cystatin C • Glucose • Platelet count • Insulin use and dose 	<ul style="list-style-type: none"> • Filter type • Modality • Anticoagulation • Dialysis prescription • Net ultrafiltration rate • Access location and size catheter • Diuretic challenge • Hourly urine output in response to diuretic • Highest daily vasoactive dose
Additional CRRT Information	<ul style="list-style-type: none"> • Liberation attempt, and success • PELOD-2 • Serum creatinine 24 hours after Liberation 	<ul style="list-style-type: none"> • Ventilation duration during CRRT • Positive culture after CRRT • CRRT duration (total) in days • Therapeutic plasma exchange
Daily Liberation Form (repeating measure x 7 days) for first liberation attempt	<ul style="list-style-type: none"> • Weight • Urine output (indexed to weight and h) • Serum creatinine 	<ul style="list-style-type: none"> • Diuretic challenge • Hourly urine output in response to diuretic • Cystatin C • NGAL
Outcomes	<ul style="list-style-type: none"> • Total ventilation duration • ICU length of stay • Hospital length of stay • Survival to discharge • CRRT at discharge • Serum creatinine at discharge 	<ul style="list-style-type: none"> • Discharge FSS (survivors) • 6 Month FSS • 1-year FSS • Time to death from CRRT initiation • 90-day dialysis dependence • 90-day Serum creatinine

PRISM-III, Pediatric Risk of Mortality-III; ICU, intensive care unit; PELOD-2, Pediatric Logistic Organ Dysfunction-2; NGAL, neutrophil gelatinase associated lipocalin; CRRT, continuous renal replacement therapy; FSS, Functional Status Scale.

Supplemental Figure S1. Histogram summarizing the number of centers by size according to intensive care unit bed capacity.

