Supplementary Table. Registration Data Details

format YY/MM/DD YY/MM/DD None		_
YY/MM/DD		
YY/MM/DD		
		Calculated from the date
INONE		of birth and date of admission to PICU.
Binary	Male/Female	
Numeric		Integer only.
Numeric		Enter to the first decimal place.
Free description		If there is no underlying disease, "None" is indicated.
Binary	No/Yes	
Binary	No/Yes	
5 levels	1/2/3/4/5	
3 levels	No/Yes (hemodialysis)/ Yes (peritoneal dialysis)	
Numeric		Enter to the first decimal place. If the base value is unknown, enter "0.0".
Binary	No/Yes	This refers to tracheotomy or laryngotracheal separation. If the tracheostomy has already been closed, select "No".
Binary	No/Yes	Including non-invasive positive pressure ventilation.
Binary	No/Yes	
12 levels	Post-operative/ Respiratory/Circulatory/ Renal/Neurological/Hematological·solid tumor/Endocrine·metabolic/Infection· sepsis/Post-cardiac arrest/Trauma/Drug poisoning/Others	
10 levels	Not after surgery/Cardiac/ Gastrointestinal/Liver/Neurological/ Respiratory/Plastic/Orthopedic/ Otolaryngological/Others	
Numeric		Enter to the first decimal place.
Numeric		Integer only.
	Numeric Numeric Free description Binary Binary 5 levels 3 levels Numeric Binary Binary Binary 12 levels 10 levels Numeric	NumericNumericNumericFree descriptionBinaryNo/YesBinaryNo/YesBinaryNo/Yes5 levels1/2/3/4/53 levelsNo/Yes (hemodialysis)/ Yes (peritoneal dialysis)NumericImage: No/YesBinaryNo/YesBinaryNo/YesBinaryNo/YesBinaryNo/YesBinaryNo/YesBinaryNo/YesBinaryNo/YesBinaryNo/Yes12 levelsPost-operative/ Respiratory/Circulatory/ Renal/Neurological/Hematological·solid tumor/Endocrine · metabolic/Infection· sepsis/Post-cardiac arrest/Trauma/Drug poisoning/Others10 levelsNot after surgery/Cardiac/ Gastrointestinal/Liver/Neurological/ Respiratory/Plastic/Orthopedic/ Otolaryngological/OthersNumericImage: SummericNumericImage: Summeric SummericNumericImage: Summeric SummericNumericImage: Summeric SummericNumericImage: Summeric SummericNumericImage: Summeric SummericNumericImage: Summeric Summeric

CRRT initiation date	YY/MM/DD		
CRRT initiation time	HH:MM		Enter in 24-hour
			notation
Reason for CRRT initiation	7 levels	Fluid overload/Acid-base•	Select all reasons that
		electrolyte/Metabolic/Drug	apply. If "others" is
		addiction/Sepsis/Temperature control/Others	selected, provide details
		addiction, sepsis, remperature control, others	in the free description.
Vascular access size (Fr or G)	Numeric		Integer only. If no
	1,0000000		catheter is used, e.g.,
			directly in the ECMO
			circuit, enter "0".
Vascular access insertion site	12 levels	Right Internal Jugular/Left Internal	
vascular access insertion site	12 10 0015	Jugular/Right femoral/Left femoral/	
		Right subclavian/Left subclavian/	
		Others/ECMO (pre-pump)/	
		ECMO (post-pump)//	
		ECMO (post-pump)/ECMO (shuft)/ ECMO (venous:post,arterial:pre-pump)	
ECMO concurrently with	Dimonst	No/Yes	
ECMO concurrently with CRRT	Binary	INO/ Y es	
Data immediately prior to CRR	Γ initiation		
Total urine output for the 24	Numeric		Integer only. Enter the
hours prior to CRRT			exact urine volume due
initiation (mL)			to indwelling urinary
			catheter. If the urinary
			catheter was placed less
			than 24 hours prior to
			induction, estimate the
			24-hour urine output
			using the urine output at
			the time it was available.
			If the urine volume is
			unknown, enter "-1".
Some anatining (mg/dL)	Numeric		Enter to the first decimal
Serum creatinine (mg/dL)	Numeric		
C	Name		place.
Serum blood urea nitrogen	Numeric		Enter to the first decimal
(mg/dL)	NT .		place.
BGA - pH	Numeric		Enter to the second
			decimal place.
BGA - Base excess	Numeric		Enter to the first decimal
	NT .		place.
BGA - HCO_3^- (mEq/L)	Numeric		Enter to the first decimal
DCA Colling (F /I)	NT		place.
BGA - Sodium (mEq/L)	Numeric		Integer only.
BGA - Potassium (mEq/L)	Numeric		Enter to the first decimal
			place.
BGA - Chloride (mEq/L)	Numeric		Integer only.
BGA - Lactate (mmol/L)	Numeric		Enter to the first decimal
			place.
Hemoglobin (g/dL)	Numeric		Enter to the first decimal
			place.
Platelet count (/µL)	Numeric		Integer only.
PT (INR)	Numeric		Enter to the first decimal
			place.
APTT (sec)	Numeric		Integer only.
Fibrinogen (mg/dL)	Numeric		Integer only.

Central venous pressure (mmHg)	Numeric		Integer only.
Systolic arterial pressure (mmHg)	Numeric		Integer only.
Diastolic arterial pressure (mmHg)	Numeric		Integer only.
Heart rate (bpm)	Numeric		Integer only.
Respiratory support	6 levels	Invasive positive pressure ventilation/Non- invasive positive pressure ventilation/High flow nasal cannula/Other oxygen therapy/Others/None	
Dopamine (y)	Numeric		Integer only.
Dobutamine (γ)	Numeric		Integer only.
Milrinone (y)	Numeric		Enter to the first decimal place.
Adrenaline (γ)	Numeric		Enter to the second decimal place.
Noradrenaline (γ)	Numeric		Enter to the second decimal place.
Vasopressin (mU/kg/min)	Numeric		Enter to the first decimal place.
Priming capacity of first circuit (mL)	Numeric		Integer only. If unknown, enter "0".
CRRT modality	5 levels	CVVHD/CVVHDF/CVVH/ECUM/Others	If "others" is selected, provide details in the free description.
Hemofilter material	6 levels	PS/CTA/PMMA/AN69ST/PAN/Others	If "others" is selected, provide details in the free description.
Hemofilter membrane area (m ²)	Numeric		Enter to the first decimal place. If unknown, enter "0.0".
Blood priming	Binary	No/Yes	
Blood priming - Red cell products (mL)	Numeric		Describe the volume used in blood priming.
Blood priming - Albumin preparation (mL)	Numeric		Describe the volume used in blood priming.
Blood priming – Plasma derivatives (mL)	Numeric		Describe the volume used in blood priming.
Dialysis after blood priming and before patient connection	Binary	No/Yes	
Data immediately after CRRT	initiation	1	
Adverse event	6 levels	None/Blood pressure decrease requiring intervention/Disequilibrium syndrome/Anaphylaxis/Cardiopulmonary arrest/Others	Select all adverse events immediately after CRRT initiation that apply. If "Others" is selected, provide details in the free description.
Dopamine (γ)	Numeric		Max dose up to 1 hour after CRRT initiation. Integer only.
Dobutamine (γ)	Numeric		Max dose up to 1 hour after CRRT initiation. Integer only.

Milrinone (γ)	Numeric		Max dose up to 1 hour
			after CRRT initiation.
			Enter to the first decimal
			place.
Adrenaline (γ)	Numeric		Max dose up to 1 hour
			after CRRT initiation.
			Enter to the second
None drag align (a)	Numeric		decimal place.
Noradrenaline (γ)	Numeric		Max dose up to 1 hour after CRRT initiation.
			Enter to the second
			decimal place.
Vasopressin (mU/kg/min)	Numeric		Max dose up to 1 hour
			after CRRT initiation.
			Enter to the first decimal
			place.
Initial settings – Qb (mL/min)			
Initial settings – Qd (mL/hour)			
Initial settings – Qs (mL/hour)			
Max – Qd (mL/hour)			Max setting before first circuit exchange
Max – Qs (mL/hour)			Max setting before first circuit exchange
Date of first circuit exchange	YY/MM/DD		
Time of first circuit exchange	HH:MM		
Reason for first circuit	7 levels	CRRT terminated/Preventive replacement	If "others" is selected,
exchange		before blockage/Exchange at regular time	provide details in the
		intervals/Exchange at blockage/Disconnection	free description.
		for more than 60 minutes for procedures or tests/Along with ECMO circuit	
		exchange/Others	
Anticoagulants used in the	6 levels	Nafamostat/Unfractionated heparin/Low-	Select all that apply.
first circuit	0 10 0 10	molecular-weight	
		heparin/Argatroban/None/Others	
Anticoagulant monitoring in	6 levels	ACT/APTT/Thromboelastography/anti-	Select all that apply. If
the first circuit		Xa/Others/None	"others" is selected,
			provide details in the
			free description.
Information during CRRT			
Adverse events	2 11	None/Minor blooding not requiring	Calast "Nonell : from
Intracranial bleeding	3 levels	None/Minor bleeding not requiring intervention/Serious bleeding requiring	Select "None" if you have not taken any
		intervention	imaging tests.
			Interventions include,
			for example, surgical
			procedures and blood
			transfusions.
Non-intracranial bleeding	3 levels	None/Minor bleeding not requiring	Interventions include,
		intervention/Serious bleeding requiring	for example, surgical
		intervention	procedures and blood
			transfusions.
Adverse events related to	8 levels	None/Bleeding requiring intervention during	Select all that apply. If
vascular access		insertion • arterial misperforation/CRBSI/	"others" is selected,
		Cardiac tamponade/	provide details in the free description.
		Arrhythmia requiring intervention/ Hemothorax/Accidental catheter removal/	
		nemotiorax/Accidental catheter removal/	1

		Others	
Other CRRT-related	8 levels	None/Thromboembolism/Air embolism/Blood	Select all that apply. If
adverse events		loss due to accidental circuit	"others" is selected,
		disconnection/Hypothermia below 35 degrees	provide details in the
		Celsius/Fall from bed/Cardiac arrest/Others	free description.
Rehabilitation	3 levels	None/Modest rehabilitation/Aggressive	Select the most
		rehabilitation	appropriate level of
			attempted rehabilitation
			during CRRT. If
			moderate or aggressive rehabilitation is selected,
			at least one rehabilitation
			must have been
			performed during
			CRRT. If rehabilitation
			was attempted but could
			not be performed, select
			None. Modest
			rehabilitation means
			only in-bed interventions
			such as ROM. Active
			rehabilitation means the
			same level of
			rehabilitation as is
			performed when the
	0.1 1		patient is not on CRRT.
Sedation and analgesia	8 levels	None/Midazolam/Fentanyl/Dexmedetomidine/	Select the sedatives and
management		Morphine/Ketamine/Muscle relaxant/Oral	analgesics regularly used
		sedative	to achieve the sedation
			target in the following section. Do not include
			single use only. For
			intravenous drugs and
			muscle relaxant, it
			means continuous
			administration.
Sedation target (assessed using	9 levels	No target/-5/-4/-3/-2/-1/0/+1/+2	
the Richmond Agitation-			
Sedation Scale)			
Total CRRT days (day)	Numeric		Integer only.
Information at the time of PICU	U	T	
PICU discharge date	YY/MM/DD		
PICU diagnosis	Free		
РСРС	description 6 levels	1/2/3/4/5/Death	
Serum creatinine (mg/dL)	6 levels Numeric	1/2/3/4/3/Deau	Enter to the first decimal
Serum creatinine (ing/uL)			place. Enter data closest
			to the time of PICU
			discharge.
Renal replacement therapy	3 levels	None/Yes (peritoneal dialysis)/Yes	Enter "None" for death.
dependence		(intermittent hemodialysis)	
Information at 6 months after P	ICU discharge	· · · · · · · · · · · · · · · · · · ·	
PCPC	7 levels	1/2/3/4/5/Death/Unknown	
Serum creatinine (mg/dL)	Numeric		Enter to the first decimal
			place. Enter the value
			closest to 6 months

			among those measured between 3–6 months from PICU discharge.
Renal replacement therapy dependence	5 levels	None/Yes (peritoneal dialysis)/Yes (intermittent hemodialysis)/Unknown/Death	Enter "None" for death.
Unscheduled PICU readmission	4 levels	No/Yes/Unknown/Death	Enter whether unscheduled PICU readmission within 6 months of PICU discharge.

PICU, pediatric intensive care unit; PIM3, Pediatric Index of Mortality 3; pSOFA, Pediatric Sequential Organ Failure Assessment; PCPC, Pediatric Cerebral Performance Category Scale; CRRT, continuous renal replacement therapy; ECMO, extracorporeal membrane oxygenation; BGA, blood gas analysis; PT, Prothrombin time; APTT, activated partial thromboplastin time; Qb, blood flow rate; Qd, dialysis fluid rate; Qs, replacement fluid rate; ACT, activated clotting time; CVVHD, continuous venovenous hemodialysis; CVVHDF, continuous venovenous hemodiafiltration; CVVH, continuous venovenous hemofiltration; ECUM, extracorporeal ultrafiltration method; PS, Polysulfone; CTA, cellulose triacetate; PMMA, polymethylmethacrylate; PAN, polyacrylonitrile; BGA, blood gas analysis; ACT, activated clotting time; APTT, activated partial thromboplastin time; Qb, blood flow rate; Qd, dialysis fluid rate; Qs, replacement fluid rate; CRBSI, catheter related blood stream infection; ROM, range of motion.