

Advancing Science, Fostering Relationships, and Building Careers

EAST MULTICENTER STUDY DATA DICTIONARY

Surgical Critical Care during the COVID-19 pandemic Study – Data Dictionary

Data Entry Points and appropriate definitions / clarifications:

Entry space Definition / Instructions

<u>Unit Variables</u> (Please fill for each unit separately if including more than one unit)

Unit Designation ICU unit designation

(i.e. MICU, SICU, MSICU, TICU, NSICU... etc.)

Unit Type Open vs Closed ICU care model

A closed unit is defined with an intensivist being the primary provider during ICU stay with other teams as consultants. An open unit is defined with primary teams caring for their own

patients and an intensivist being a consultant.

Total Number of ICU beds Baseline number of beds in 2019

The unit's baseline capacity: the average number of beds under

this unit's care during the included months of 2019.

Extended ICU location(s)

Any new hospital space designated for critical care

(i.e. PACU, OR, Floor rooms, ED... etc.) That was converted to

take care of ICU level patients.

Extended ICU number of beds Number of beds in extended location(s)

Number of added ICU level beds in each of the extended ICU

locations.



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<u>Unit Capacity:</u> (Please fill this form for each unit for each week included in the study)

Numbers can be taken from each morning's census, if available

Number of empty beds Number of empty beds in each week

Sum of empty beds every morning of the week

Number of patients with surgical diagnosis
Number of surgical patients in each week

Sum of surgical patients every morning of the week, same

patient can be counted once for each ICU day

Number of patients with non-surgical diagnosis
Number of non-surgical patients in each week

Sum of non-surgical patients every morning of the week, same

patient can be counted once for each ICU day

Number of patients with COVID-19 admission
Number of COVID-19 patients in each week

Sum of COVID-19 patients every morning of the week, same

patient can be counted once for each ICU day



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Care Teams: (Please fill this form for each unit for each week included in the study)

Total number of intensivists in the unit Number of intensivists rotating each week

Number of anesthesiology intensivists
Number of anesthesiology intensivists rounding each week

Number of critical care fellows
Number of critical care fellows rounding each week

team during pandemic – tiered staffing)

Total number of nurses Total number of nurses working each week

Number of nurses working daily Average daily number of nurses working each week

Total number of APPs Total number of APPs working each week

Number of APPs working daily Average daily number of APPs working each week

Number of residents Number of residents rounding each week



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Data Entry Points and appropriate definitions / clarifications:

Entry space Definition / Instructions

Patient Variables

Admission date of the patient (DAY #1 FOR ALL HOSPITAL DAY

CALCULATIONS, roll over at midnight)

Admit Time Admission time of the patient

Demographics / Diagnosis

Age Age of patient enrolled

Gender Gender of patient

Race/Ethnicity Race/Ethnicity of patient

Insurance status Insurance status of patient

(Private insurance, Medicaid, Medicare, No insurance, Other "specify")

Patient Designation Primary reason for admission:

Surgical, Non-surgical, COVID-19

Comorbidities Comorbidities of patient

Primary diagnosis Admission diagnosis (pre-operative diagnosis if post-operative

admission)

Primary procedure performed Index operative procedure performed (if post-operative admission)

Management Variables

Patient care team Surgical if >80% of care led by surgical intensivist or surgical team

Non-surgical if <80%

Time of ICU admission Hospital day on which patient was admitted to ICU

Admission weight Patient weight on admission in kg

Weight on ICU discharge Most recent weight in kg within 48 hours before ICU discharge

Volume of resuscitation in first 24 hours Intake in mL for first 24 hours of admission to ICU

Total volume balance during ICU stay in mL, Intake – Output for entire ICU stay

Units of pRBC transfused Total number and volume of units

Units of FFP transfused Total number and volume of units

Units of platelets transfused Total number and volume of units

Volume of albumin given Total volume given in grams and in mL

Time on vasopressors in hours, Total time with active vasopressor infusion

Vasopressors used list of vasopressors used, duration, highest dose for each pressor

Time of intubation Hospital day on which patient was intubated

(Excluding for procedures, unless remained intubated post-op)

Days on mechanical ventilation
Number of days requiring mechanical ventilation

Time of Tracheostomy Hospital day of tracheostomy placement

Lowest P/F ratio Lowest PaO2/FiO2 ratio documented

Days with prone positioning Number of days patient was positioned prone

Average hours of prone positioning
Average number of hours in prone position on days employed

Sedatives used List of sedatives used

Time on sedatives Number of hours with active sedative infusion

Antibiotics used List of antibiotics used, start day, dose, frequency, and duration

Days on antibiotics Number of days on antibiotics

Time of starting RRT Hospital day when RRT was initiated

Indication for RRT Documented indication to initiate RRT

Mode of RRT RRT mode used (CVVH, HD, ...etc.)

Days on RRT Number of days requiring RRT

Anticoagulation agent used Heparin, Enoxaparin, ...etc. Start day, dose, frequency, duration

DVT/PE present on admission Diagnosis present on admission

Time of DVT/PE diagnosis Day since admission (if not present on admission)

Nutrition given PPN vs TPN vs Enteral vs None. Start day and frequency

Hospital acquired infection VAP / CLABSI / CAUTI / C.Diff / Other

Hospital LOS ICU LOS Number of days requiring ICU admission Mortality Yes or No, Did patient expire during same hospitalization		
ICU LOS Number of days requiring ICU admission	Hospital LOS	Number of days hospitalized
	Mortality	



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EAST MULTICENTER STUDY DATA COLLECTION TOOL

Multicenter Study: Surgical Critical Care During COVID-19 Pandemic

Study times: January to December 2019, January to December 2020

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Enrolling Center:
Enrolling Co-investigator:
Patient ID: (Assigned by enrolling center)
Admit Date: (DAY #1 FOR ALL HOSPITAL DAY CALCULATIONS, roll over at midnight)
Admit Time:
Demographics / Diagnosis:
Age: Gender:
Race/Ethnicity: White / African American / Hispanic / Asian / Other, Specify:
Insurance status: Private / Medicare / Medicaid / Uninsured / Other, Specify:
Patient designation: Surgical / Non-surgical / COVID-19
Comorbidities: Diabetes / HTN / COPD / CAD / CVA / CHF / A-fib / CKD / ESRD-DD / Smoking / Obesity / Asthmatical / HIV / Hep C / Immunosuppressed / Chronic steroid use / Other, Specify:
Primary Diagnosis (pre-operative diagnosis if post-operative admission):
Primary Procedure performed (if post-operative admission):

Management Variables:

Patient care team: Surgical / non-surgical

(Surgical if >80% of care led by surgical intensivist in closed unit, or surgical team in open units) Time of ICU admission: _____ (hospital day) Admission weight: _____ (kg) Weight within 48h of ICU discharge: _____ (kg) Volume of resuscitation in first 24 hours: _____ (mL) Total volume balance during ICU stay: _____ (mL) Units of pRBC: # of units ____, Total ___ (ml) Units of FFP: # of units _____, Total ____ (ml) Units of Platelets: # of units ____, Total ___ (ml) Volume of albumin given: ____ (g), ____ (ml) Time on vasopressors: ____ Days, ____ Hours Vasopressors used: Norepinephrine: Date started _____, Highest dose _____ mcg/min, Date stopped _____ Epinephrine: Date started _____, Highest dose ____ mcg/min, Date stopped _____ Phenylephrine: Date started _____, Highest dose _____ mcg/min, Date stopped _____ Vasopressin: Date started _____, Highest dose ____ mcg/min, Date stopped ____ Dobutamine: Date started , Highest dose mcg/min, Date stopped Dopamine: Date started _____, Highest dose _____ mcg/min, Date stopped _____ _____: Date started _____, Highest dose ____ mcg/min, Date stopped _____ Time of intubation: _____ (hospital day) Days on mechanical ventilation: _____ Time of Tracheostomy: _____ (Hospital day) Lowest P/F ratio: PaO2 _____ FiO2 ____ PEEP ____ Days with prone positioning: _____ Average hours of prone positioning: _____ (hours/day) Sedatives used: _____ Time on sedatives: _____ (hours)

Total days on antibiotics:	:			
Antibiotics used:				
	, start date	, dose	, frequency	, stop date
	, start date	, dose	, frequency	, stop date
	, start date	, dose	, frequency	, stop date
-	, start date	, dose	, frequency	, stop date
	, start date	, dose	, frequency	, stop date
Time of starting RRT:	(hospital day)			
Indication for RRT:				
Mode of RRT:				
Days on RRT:				
Anticoagulation agent us	ed:			
	, start date	, dose	, frequency	, stop date
	, start date	, dose	, frequency	, stop date
	, start date	, dose	, frequency	, stop date
DVT/PE present on admi	ission:			
Time of DVT/PE diagnos	sis: (hospital	day)		
Nutrition given: PPN / TF	PN / Enteral / None			
Details (frequence	cy, days stopped for ir	ntolerance):		
Hospital acquired infection	ons: VAP / CLABSI / (CAUTI / C.Diff / O	ther, Specify:	
Hospital LOS:	(days)			
ICU LOS: (days	5)			
Mortality (circle one):	YES NO			



Eastern Association for the Surgery of Trauma Advancing Science, Fostering Relationships, and Building Careers

EAST MULTICENTER STUDY DATA COLLECTION TOOL

Multicenter Study: Surgical Critical Care During COVID-19 Pandemic
Enrolling Center:
Enrolling Co-investigator:
Brief description of how your facility altered its critical care capacity during the COVID pandemic
Unit Variables, per month (each month starting in January 2019 ending December 2020):
Unit Designation: (select one) MICU / MSICU / TICU / NSICU / CTICU / Other, Specify:
Unit Type: (select one) Closed ICU vs Open ICU
Total Number of ICU beds:
Extended ICU locations: PACU / OR / IMC / Floor rooms / ED / Other, Specify:
Extended ICU number of beds: (for each extended location)



Eastern Association for the Surgery of Trauma Advancing Science, Fostering Relationships, and Building Careers

EAST MULTICENTER STUDY DATA COLLECTION TOOL

Multicenter Study: Surgical Critical Care During COVID-19 Pandemic

Month of the study:					
Number of empty beds:					
Number of patients with surgical diagnosis:					
Number of patients with non-surgical diagnosis (excluding COVID-19):					
Number of patients with COVID-19 related admission:					
Total number of intensivists in the unit:					
Number of medical intensivists:					
Number of anesthesiology intensivists:					
Number of surgical intensivists:					
Number of critical care fellows:					
Number of non-ICU physicians (in COVID-19 surge):					
Total number of nurses:					
Number of nurses working daily:					
Total number of APPs:					
Number of APPs working:					
Number of residents:					