

GQIP WINTER MEETING 2022

S. Rob Todd, MD

GQIP Trauma Medical Director

Gina Solomon MHA RN

GQIP Director

GQIP Trauma Advisory Committee



- Dr. S. Rob Todd Grady
- Dr. Katherine Kohler Wellstar AMC
- Dr. Matthew Vassey Northeast Georgia Medical Center
- Dr. Naila Avery Northside Gwinnett
- Dr. Kyle Thomas Wellstar Kennestone
- Dr. Greg Patterson Archbold Medical Center



GQIP Research Resident

2020-2022 Jesse Codner MD General Surgery Resident

GQIP Research Resident



Grants:

TL1, NIH/NCATS Georgia Clinical and Translational Science Alliance NRSA Training Core



Education:

Master of Science Clinical Research



GQIP Research Resident: Presentations





Predicting acute kidney injury in a Georgia Quality Improvement Program Trauma Cohort



Predicting acute kidney injury in a Georgia Quality Improvement Program Trauma Cohort



A State-wide collaborative drill down and analysis of unplanned ICU admissions



Georgia Quality Improvement Programs multiinstitutional collection of postoperative opioid data using ACS-NSQIP Abstraction



Improving postoperative sepsis performance measurement using hospital riskadjustment and concomitant monitoring of prevention and rescue within a statewide surgical collaborative



Dr. S. Rob Todd Gina Solomon



		Α	R	K	L	Р	н	F	D	0	N	С	J	E		
Outcome	Cohort						Outlier (I	ligh, Ave	rage,Low))					Spring Collaborative Report	Fall Collaborative Report
	All Patients	High	Average	Average	Average	Average	High	Average	High	Average	Average	Average	High	High	Average	High
	Blunt Multisystem	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	High
	Penetrating	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average
Martality Table 2	Shock	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average
Mortality - Table 2	Severe TBI	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average
	Elderly	High	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	High
	Elderly Blunt Multisystem	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	High
	Isolated Hip Fracture	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average
	All Patients	High	High	Average	Low	Average	High	High	Average	Average	Average	High	Average	Average	Average	High
	Blunt Multisystem	High	Average	Average	Average	Average	High	High	Average	Average	Average	High	Average	Average	Average	High
	Penetrating	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	`Average
	Shock	Average	Average	Average	Average	Average	High	Average	Average	Average	Average	High	Average	Average	Average	Average
Major Hospital Events - Table 3	Severe TBI	High	Average	Average	Average	Average	Average	Average	Average	Average	Average	High	Average	Average	Average	Average
	Elderly	High	Average	Average	Average	Average	High	High	Average	Average	Average	High	Average		Average	Average
	Elderly Blunt Multisystem	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average		Average	Average
	Isolated Hip Fracture	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	High	Average	Average	High	
	All Patients	High	Average	Average	Average	Average	High	High	Average	Average	High	Average	High		Average	High
	Blunt Multisystem	High	Average	Average	Average	Average	Average	Average	Average	Average	High	Average	Average		Average	High
	Penetrating	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average		Average	Average
Major Hospital Events Incl. Death	Shock	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average			Average
Table 4	Severe TBI	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average			Average
	Elderly	High	Average	Average	Average	Average	High	Average	Average	Average	Average	High	Average			High
	Elderly Blunt Multisystem	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average			Average
	Isolated Hip Fracture	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average			Average
	All Patients	High	Average	Average	Average	Average	High	Average	High	Average	Average	High	High			High
Acute Kidney Injury - Table 5	Shock	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average			High
	All Patients	High	Average	Average	Average	Average	Average	High	High	High	Average	High	High			Average
Ventilator-Associated Pneumonia	Severe TBI	Average	Average	Average		Average	Average	High	High	Average	Average	High	Average			Average
Pulmonary Embolism	All Patients	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average			Average
Surgical Site Infection	All Patients	High	Average	Average	Average	Average	Average	Average	Average	High	High	High	Average			High
Unplanned Admission to the ICU	All Patients	Average	Average	Average	Average	Average	Average	Average	Average	Average	Average	High	Average			Average
Unplanned Visit to OR	All Patients	Average	High	Average	Average	Average	Average	High	Average	Average	High	High	Average			Average
Catheter-Associated UTI	All Patients	Average	Average	Average		Average	Average	High	Average	High	Average	Average	High	Average	Average	High
Outilities Associated OTI	All I uticities	Average	Average	Average	Average	Average	Average	High	Average	High	Average	Average	High	Average	7 tv olugo	riigii



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Outcome	Cohort	Decile											Spring 2021 Collabprative Report	Fall 2021 Collabprative Report		
	All Patients	10	7	7	2	8	10	9	10	6	9	3	10	9	8	9
	Blunt Multisystem	10	5	6	1	9	9	7	6	6	10	2	10	10	8	10
	Penetrating	5	6	2	3	8	2	10	1	7	4	1	9	3	3	3
Mortality - Table 2	Shock	10	3	7	5	7	9	9	1	3	3	1	10	9	7	7
mortality - Table 2	Severe TBI	9	9	9	6	7	9	5	9	5	6	3	10	8	9	9
	Elderly	10	5	8	3	9	10	8	9	7	10	7	7	5	8	9
	Elderly Blunt Multisystem	10	5	9	1	10	6	3	8	9	9	10	4	7	5	10
	Isolated Hip Fracture	1	10	3	1	3	9	4	9	1	8	3	9	1	4	3
	All Patients	10	10	2	2	8	10	9	8	8	7	9	7	5	7	8
	Blunt Multisystem	10	10	5	1	3	10	10	7	9	9	10	6	7	8	9
Major Hoenital Events - Table 3	Penetrating	1	10	2	1	8	7	9	1	4	10	8	9	4	4	6
	Shock	9	2	2	3	9	10	8	1	7	5	10	8	9	7	9
Major Hospital Events - Table 3	Severe TBI	10	7	4	2	5	9	8	9	4	5	10	6	7	8	7
	Elderly	10	10	5	2	8	10	9	7	5	4	10	1	4	7	8
	Elderly Blunt Multisystem	8	10	3	1	4	8	10	5	9	4	10	3	6	8	9
	Isolated Hip Fracture	10	10	9	4	4	8	9	10	8	9	10	4	1	9	10
	All Patients	10	10	5	2	8	10	9	9	8	9	8	9	6	8	9
	Blunt Multisystem	10	8	7	1	6	10	10	6	8	10	8	8	7	8	9
	Penetrating	2	9	1	2	9	4	10	1	5	9	4	8	4	5	5
Major Hoovital Francis Incl. Booth Table 4	Shock	10	2	6	5	9	10	9	1	6	7	10	10	9	6	10
Major Hospital Events Incl. Death - Table 4	Severe TBI	8	10	9	5	5	9	5	9	5	7	7	10	7	8	9
	Elderly	10	7	8	2	9	10	8	7	6	9	10	4	2	7	9
	Elderly Blunt Multisystem	10	9	8	1	9	8	10	3	8	9	10	2	5	4	9
	Isolated Hip Fracture	9	10	7	2	3	9	8	10	5	9	10	8	1	7	9
Acute Kidney Inium, Table 5	All Patients	10	9	2	6	8	10	5	10	7	3	8	10	10	9	9
Acute Kidney Injury - Table 5	Shock	10	5	4	9	9	10	7	7	5	2	10	9	10	10	10
Ventilator-Associated Pneumonia	All Patients	10	6	5	2	3	6	9	9	8	4	9	9	8	7	7
ventilator-Associated Pneumonia	Severe TBI	9	8	4	1	4	2	9	9	8	1	10	9	8	7	7
Pulmonary Embolism	All Patients	5	7	7	6	5	2	9	1	3	8	7	2	6	5	5
Surgical Site Infection	All Patients	10	9	4	1	4	9	7	9	10	10	9	7	2	7	9
Unplanned Admission to the ICU	All Patients	8	4	8	2	5	2	6	8	8	7	10	2	4	7	6
Unplanned Visit to OR	All Patients	7	10	4	4	6	8	8	2	7	8	7	5	3	6	6
Catheter-Associated UTI	All Patients	9	4	8	9	4	5	10	8	10	7	8	10	7	8	9



Report: Fall 2021	A	R	K	L	P	Н	F	D	0	N	С	J	E	Fall Collaborative Report	All Others
From Table 7: Confirmed COVID-19 %	Confirmed COVID-19 %														
All Patients	3.39	0	0.37	3.5	0.92	1.56	1.23	3.96	4.93	4.11	4.79	3.8	4.03	3.47	1.97
Blunt Multisystem	2.43	0	0	7.83	3.45	2.15	1.98	1.91	8.2	5.88	5	2.06	6.22	4.30	2.26
Penetrating	5.77	0	0	3.33	0	0.00	1.71	3.95	5.26	5.56	5.47	4	1.83	4.07	2.93
Shock	8.16	0	0	10.26	0	0.00	3.57	2.94	6.38	0	5.71	6.67	6.25	5.22	2.61
Severe TBI	2.74	0	0	4.00	5	3.23	1.96	1.35	6.25	3.81	3.92	4.35	3.85	3.41	2.55
Elderly	3.36	0	0.95	2.26	0.72	2.62	1.36	6.05	5.83	2.79	4.88	2.4	3.87	3.28	1.88
Elderly Blunt Multisystem	2.63	0	0	0.00	0	7.14	2	3.03	3.57	11.9	4.26	0	4.08	3.91	1.70
Isolated Hip Fracture	4.12	0.97	6.78	1.09	2.06	3.33	4.17	1.52	5.67	4.55	4	0	6.06	3.63	2.03



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	Α	R	K	L	Р	Н	F	D	0	N	С	J	E	COLLABORATIVE	All Others
From Table 12(pg 31 & 32): Hospital Events by Cohort							Acute Kidn	ey Injury %							
All Patients	1.5	2.2	0.0	0.9	0.9	2.5	0.8	2.3	0.7	0.6	1.8	2.1	1.9	1.5	0.9
Blunt Multisystem	3.9	9.7	0.0	3.5	0.0	7.5	2.5	3.2	3.3	1.2	4.5	6.2	6.2	4	2.2
Penetrating	1.9	8.3	0.0	6.7	0.0	3.7	0.9	0	0	2.8	1.8	4	1.8	1.9	1.9
Shock	8.2	0.0	0.0	5.1	10.0	11.4	3.6	2.9	2.1	0	6.9	4.4	7.5	5.8	3.4
Severe TBI	4.1	7.7	0.0	2.0	0.0	3.2	1	2.7	0	1.3	3.1	2.2	3.8	2.5	1.7
Elderly	2.1	1.9	0.0	0.4	0.7	2.2	1.1	3.3	0.6	0.3	3.4	0.8	1.9	1.6	0.9
Elderly Blunt Multisystem	7.9	11.1	0.0	0.0	0.0	7.1	6	6.1	7.1	0	10.8	6.3	6.1	6.2	2.3
Isolated Hip Fracture	4.1	1.0	0.0	0.0	1.0	1.0	1.2	6.1	0	1.1	1	0	0.0	1.1	0.5
From Table 12(pg 31 & 32): Hospital Events by Cohort	CAUTI %														
All Patients	0.4	0.0	0.4	0.5	0.0	0.2	0.7	0.4	0.6	0.3	0.4	0.9	0.2	0.4	0.3
Blunt Multisystem	1.0	0.0	4.3	0.9	0.0	1.1	2	1.3	1.6	1.2	0.6	2	0.5	1.1	0.7
Penetrating	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0	0	0	0.5	4	0.0	0.5	0.3
Shock	2.0	0.0	0.0	2.6	0.0	0.0	3.6	0	0	0	0.4	2.2	0.0	0.9	0.7
Severe TBI	0.0	0.0	0.0	4.0	0.0	3.2	1	2.7	4.2	1.3	0.8	0	0.0	1.2	0.8
Elderly	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0	1	0.3	0.6	0.8	0.3	0.3	0.3
Elderly Blunt Multisystem	0.0	0.0	0.0	0.0	0.0	0.0	2	0	3.6	0	0	0	0.0	0.5	0.6
Isolated Hip Fracture	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0	0.7	0	0	0	0.0	0.1	0.1
From Table 12(pg 31 & 32): Hospital Events by Cohort							Severe S	Sepsis %							
All Patients	1.2	1.1	0	0	0	3.4	0.4	1.6	0.4	0.7	1.4	0.8	1.5	1.1	0.4
Blunt Multisystem	1.5	3.2	0	0	0	8.6	0	3.2	1.6	2.9	2.6	1	5.2	2.5	1.2
Penetrating	1	8.3	0	0	0	3.7	0	0	0	2.8	2.1	2	0.9	1.4	1.1
Shock	4.1	0	0	0	0	14.3	0	0	0	0	6.1	0	7.5	4.1	1.5
Severe TBI	2.7	7.7	0	0	0	3.2	1	5.4	0	2.5	2.8	2.2	1.9	2.3	1
Elderly	2.4	0.9	0	0	0	3.9	0.5	2.8	0.3	0	2.3	0.8	1.7	1.3	0.4
Elderly Blunt Multisystem	0	0	0	0	0	10.7	0	3	3.6	0	6.5	0	4.1	3	1.2
Isolated Hip Fracture	2.1	0	0	0	0	0.5	0	4.5	0	0.6	1	2.6	0.0	0.6	0.2



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	Α	R	K	L	Р	Н	F	D	0	N	С	J	E	COLLABORATIVE	All Others
From Table 12(pg 31 & 32): Hospital Events by Cohort							Deep	SSI %							
All Patients	0.3	1.1	0	0.1	0	0.8	0.4	0.5	0.7	0.3	0.5	0.6	0.1	0.4	0.2
Blunt Multisystem	0.5	3.2	0	0.0	0	4.3	1	2.5	3.3	0.6	1.1	1	0.5	1.3	0.5
Penetrating	0	8.3	0	0.0	0	0.0	1.7	0	4.3	0	1.3	2	0.0	1	0.9
Shock	2	0	0	0.0	0	5.7	0	0	6.4	0	2.4	2.2	0.0	1.9	0.8
Severe TBI	0	0	0	2.0	0	6.5	0	1.4	4.2	0	0.4	0	1.0	0.9	0.3
Elderly	0	0	0	0.0	0	0.4	0.2	0	0	0	0	0.8	0.0	0.1	0
Elderly Blunt Multisystem	0	0	0	0.0	0	3.6	2	0	0	0	0	0	0.0	0.5	0.5
Isolated Hip Fracture	0	0	0	0.0	0	0.0	0	0	0	0	0	0	0.0	0	0
From Table 12(pg 31 & 32): Hospital Events by Cohort	Organ/Space SSI %														
All Patients	0.2	0	0	0	0	0.2	0.1	0.2	0.1	0.3	0.6	0	0.1	0.2	0.2
Blunt Multisystem	0.5	0	0	0	0	0.0	0	1.3	0.8	0.6	0.4	0	0.0	0.4	0.3
Penetrating	1.9	0	0	0	0	3.7	1.7	0	0	5.6	3.1	0	0.9	2	1.3
Shock	0	0	0	0	0	0.0	0	0	0	0	2	0	0.0	0.7	0.7
Severe TBI	0	0	0	0	0	0.0	0	0	2.1	0	0.4	0	0.0	0.2	0.2
Elderly	0	0	0	0	0	0.0	0	0.5	0	0	0.2	0	0.0	0.1	0
Elderly Blunt Multisystem	0	0	0	0	0	0.0	0	3	0	0	1.1	0	0.0	0.5	0.1
Isolated Hip Fracture	0	0	0	0	0	0.0	0	0	0	0	0	0	0.0	0	0
From Table 12(pg 31 & 32): Hospital Events by Cohort						Su	perficial Inc	cisional SSI	%						
All Patients	0.4	0	0	0	0	0	0.1	0.2	0.1	0.4	0.2	0.2	0.1	0.2	0.2
Blunt Multisystem	0	0	0	0	0	0	0	0	0	1.8	0.4	0	0.0	0.3	0.4
Penetrating	1	0	0	0	0	0	0.9	1.3	0	0	0.3	2	0.0	0.5	0.8
Shock	0	0	0	0	0	0	0	2.9	2.1	0	0.4	0	1.3	0.6	0.5
Severe TBI	0	0	0	0	0	0	0	0	0	0	0.4	0	1.0	0.2	0.3
Elderly	0.6	0	0	0	0	0	0	0.5	0	0	0.2	0	0.0	0.1	0.3
Elderly Blunt Multisystem	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0
Isolated Hip Fracture	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0



	Α	R	K	L	Р	Н	F	D	0	N	С	J	E	Collaborative	All Others
							Operative Fix	cation more	than 48 hrs	(%)					
Table 15: First Operative Fixation in Elderly Patients with Isolated Hip Fractures	5	9.1	3	5.1	6	6.5	8.1	24.1	6.4	2.4	16.5	21.1	19.1	8.1	7.4
	Severe TBI #														
Table 26: ED Intubation for Severe TBI Patients	73	13	13	50	20	31	102	74	48	58	254	46	58	908	25,463
	Intubation in ED (Percent)														
Table 26: ED Intubation for Severe TBI Patients	52.2	63.6	6	82	13	72.4	52	62.2	76.6	73.4	68.9	67.4	56.3	64.8	54.9
							Tim	e to ED Intu	bation						
Table 26: ED Intubation for Severe TBI Patients	0.17	0.1	0.12	0.15	0.2	0.12	0.18	0	0.15	0.17	0.15	0	0.26	0.17	0.15
							Time to	Tracheosto	omy (Days)						
Table 27: Tracheostomy Management for sTBI Patients	14	3	8	15	1	13	10	8	7	12	13	14	10	11	10
						Trache	eostomy wit	hin 7 days c	of Admission	(Percent)					
Table 27: Tracheostomy Management for sTBI Patients	5.9	100	0	16.7	1	0	29.2	41.2	56.3	30	22.2	0	16.5	30.6	25.5



•	Α	R	K	L	Р	н	F	D	0	N	С	J	Е	Collaborative	All Others
5				_	-		S	BP (Percent	Missing)						
From Table 39: Unknown Model Variables by Cohort				I	ı			J. (. c. c	· · · ·		I		I		
All Patients	2	5.1	5.6	2.4	4.6	1.9	2.2	1	4.4	3.2	1.2	4.9	8.9	3.1	2.3
Blunt Multisystem	1.5	0	0	2.6	6.9	1.1	0	1.3	0.8	1.8	2	6.2	7.3	2.3	1.9
Penetrating	8.7	0	11.1	3.3	0	3.7	0.9	0	0	0	1.8	4	1.8	2.4	4.6
Shock	0	0	0	0.0	0	0.0	0	0	0	0	0	0	0.0	0	0
Severe TBI	1.4	0	7.7	2.0	5	0.0	0	4.1	2.1	0	1.2	6.5	1.9	1.8	2.5
Elderly	1.8	4.6	6.7	3.0	5.8	1.3	3	0.5	6.5	2.8	0.8	8	11.0	3.9	2.5
Elderly Blunt Multisystem	5.3	0	0	10.7	10	3.6	0	3	3.6	2.4	3.2	6.3	12.2	4.6	1.9
Isolated Hip Fracture	5.2	5.8	0	5.4	113	4.8	4.2	0	7.1	7.4	0	2.6	24.2	6.5	3.5
From Table 39: Unknown Model Variables by Cohort	Pulse														
All Patients	1.7	4.4	5.2	2.4	4.3	1.6	2.1	0.9	3.7	2.5	1.8	4.9	9.6	3.1	2
Blunt Multisystem	1	0	0	2.6	3.4	0.0	0	1.3	0	1.2	2.6	8.2	8.3	2.4	1.6
Penetrating	9.6	0	11.1	3.3	0	3.7	0.9	0	0	0	2.1	4	2.8	2.7	3.6
Shock	2	0	0	0.0	0	0.0	0	0	0	0	2	0	0.0	0.9	0.7
Severe TBI	1.4	0	7.7	0.0	5	0.0	0	2.7	0	0	1.2	6.5	1.9	1.4	1.7
Elderly	1.8	3.7	6.7	3.8	5.8	0.9	2.7	0.5	5.5	2.8	1.9	7.2	12.4	4	2.3
Elderly Blunt Multisystem	5.3	0	0	10.7	0	0.0	0	3	0	2.4	3.2	6.3	16.3	4.4	1.7
Isolated Hip Fracture	4.1	5.8	0	6.5	11.3	4.3	4.2	0	6.4	6.8	1	2.6	24.2	6.5	3.4
From Table 39: Unknown Model Variables by Cohort								GCS Mo	otor						
All Patients	8.6	3.3	3.3	3.9	7.6	12.5	1.2	1.2	5.8	17.4	0.7	12.1	1.4	5	3.4
Blunt Multisystem	6.8	0	0	3.5	0	11.8	1	0	1.6	5.9	1.3	6.2	1.0	2.9	2.1
Penetrating	10.6	0	0	0.0	20	14.8	0	0	0	5.6	2.1	4	0.0	3	2
Shock	6.1	0	0	0.0	0	2.9	0	0	0	0	1.2	6.7	0.0	1.6	1.6
Severe TBI	0	0	0	0.0	0	3.2	0	0	0	1.3	0.4	2.2	0.0	0.4	0.4
Elderly	6.4	2.8	5.7	3.8	9.4	12.2	1.6	2.3	8.7	26.3	0.6	24.8	2.2	7.1	4.5
Elderly Blunt Multisystem	10.5	0	0	7.1	0	14.3	0	0	0	11.9	1.1	6.3	0.0	3.9	2.8
Isolated Hip Fracture	21.6	4.9	0	6.5	20.6	15.7	4.2	1.5	13.5	29	0	28.2	4.0	11.8	7.5



AKI Workgroup

Dr. Katherine Kohler

AKI Workgroup



- Continued work on AKI guideline
- Physician Practice Survey created & completed
- All 13 Level I & II centers responded
- 12 questions



AKI Physician Practice Survey Results

Survey Responders: 13 Centers

































Question:

Do you use TEG-based resuscitation?

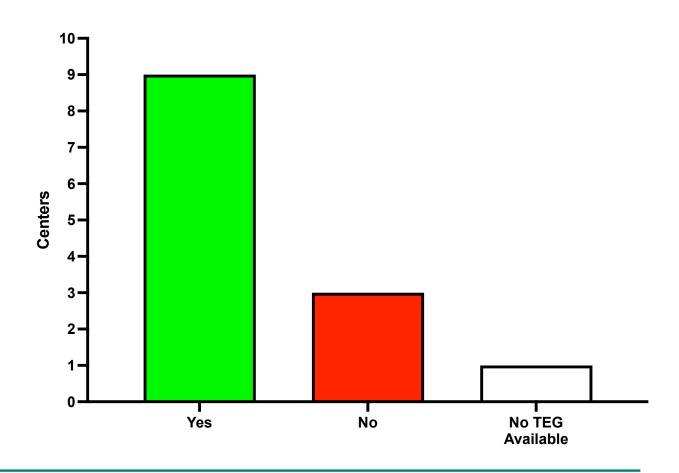
Yes:

9/13 Centers: 69%

No:

3/13 Centers: 23%

No TEG Available: 1/13 Centers: 7%





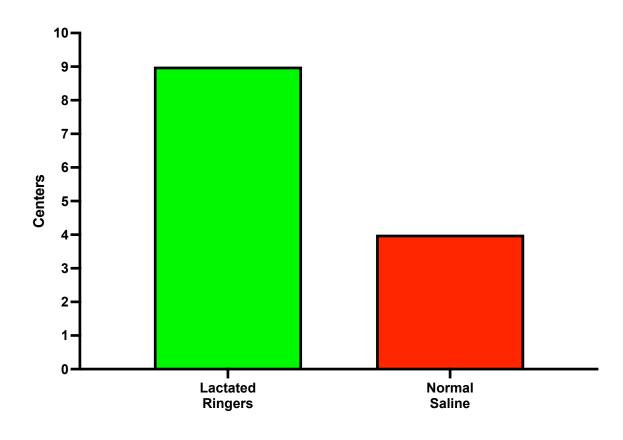
Question:

Which crystalloid is your preferred IVF for resuscitation of patients?

<u>Lactated Ringers:</u> 9/13 Centers: 69%

Normal Saline: 4/13 Centers: 31%

Plasmalyte: 0/13





Question:

Do you routinely use any of the following adjuncts for monitoring/guiding resuscitation?

Vigileo:

2/12 Centers: 17%

Flowtrack:

4/12 Centers: 33%

POCUS:

3/12 Centers: 25%

ScVO2:

1/12 Centers: 8%

CVP:

1/12 Centers: 8%

Other

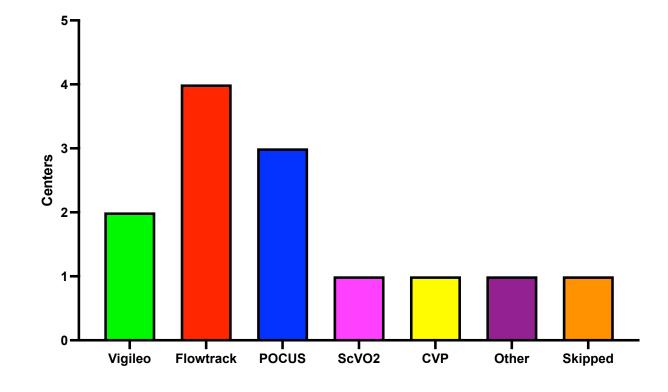
1/12 Centers: 8%

Swan-Ganz:

0

hTEE Probes:

 \cap





Question:

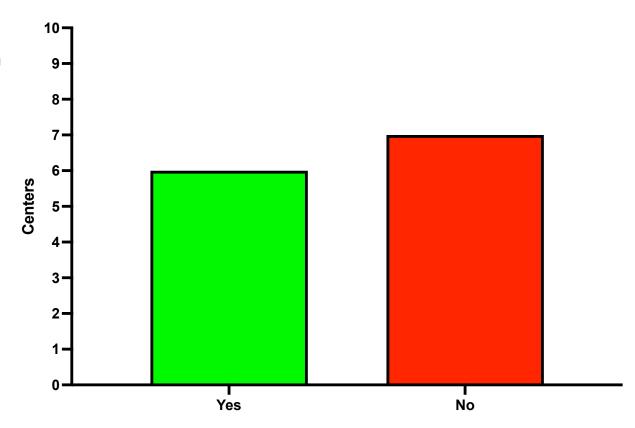
Do you routinely use Vancomycin/Zosyn for empiric Abx coverage?

Yes:

6/13 Centers: 46%

No:

7/13 Centers: 54%





Question:

Does your institution have any of the following renal biomarkers?

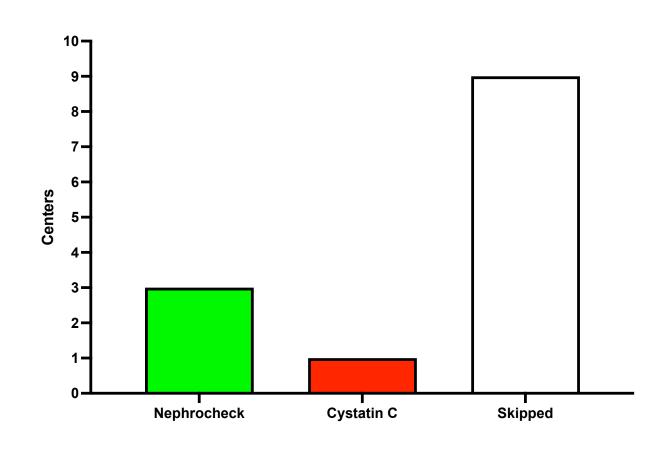
Nephrocheck:

3/4 Centers: 75%

Cystatin C:

1/4 Centers: 25%

Skipped: 9 Centers





Question:

If you have access to renal biomarkers Have you used them to monitor and treat AKI for 2 yrs. or greater?

Yes:

No:

5/12 Centers: 42%

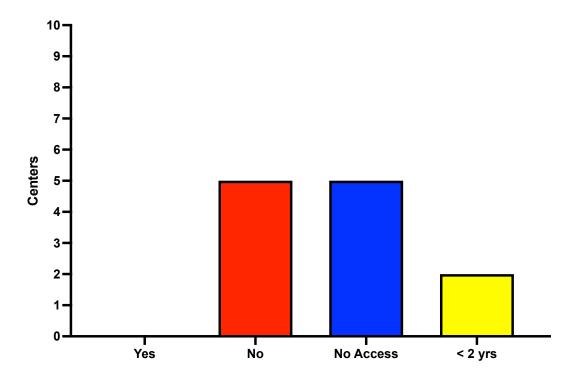
We do not have access to renal biomarkers:

5/12 Centers: 42%

We have access, but used less than 2 yrs.:

2/12 Centers: 16%





Skipped: 1



Question:

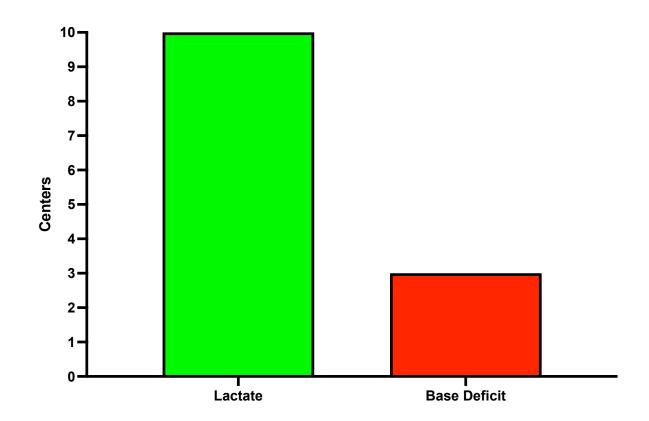
Which lab value do you trend for resuscitation?

Lactate:

10/13 Centers: 77%

Base Deficit:

3/13 Centers: 23%





Question:

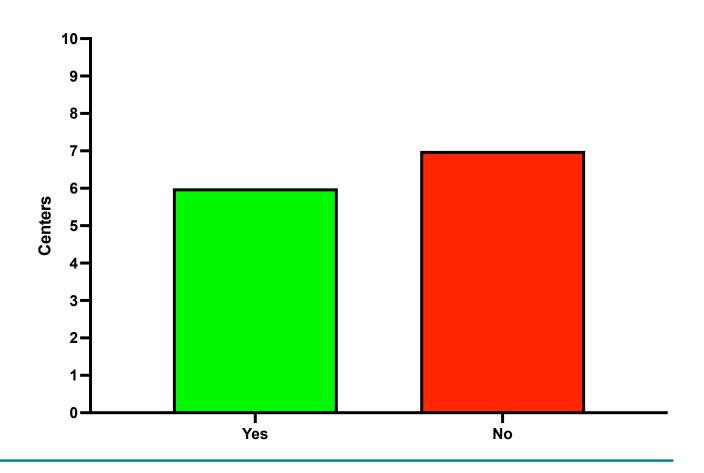
Does your center use whole blood?

Yes:

6/13 Centers: 46%

No:

7/13 Centers: 54%





Question:

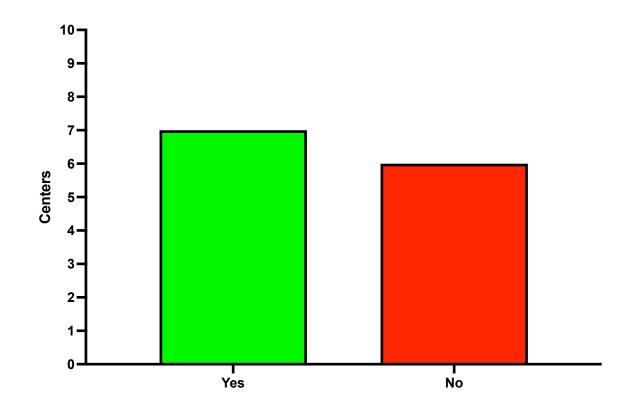
Does your center have a well-defined algorithm for resuscitation?

Yes:

7/13 Centers: 54%

No:

6/13 Centers: 46%





Question:

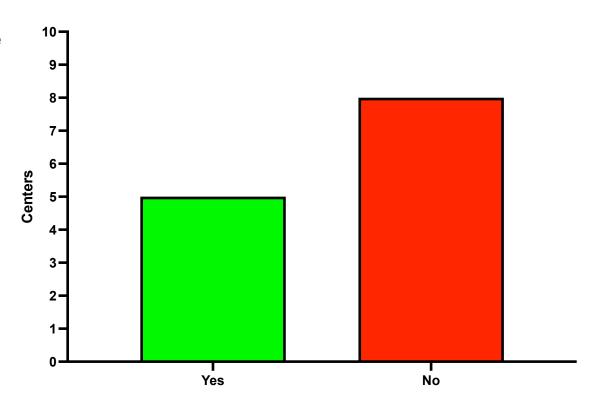
Does your center use point of care creatinine testing to decide on IV contrast?

Yes:

5/13 Centers: 38%

No:

8/13 Centers: 62%





Question:

How does your center determine patient selection for IV contrast use?

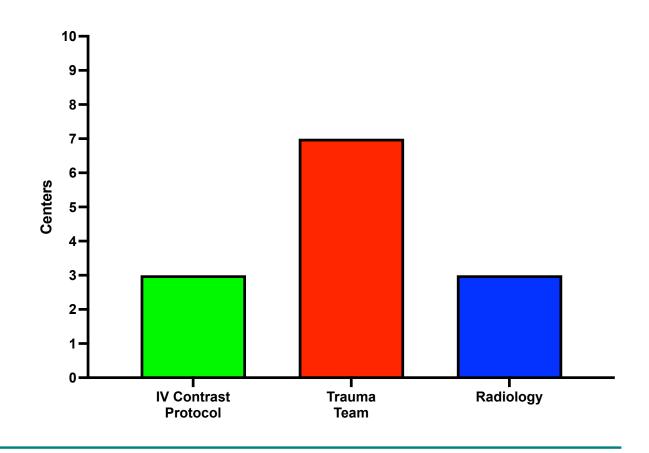
IV Contrast Protocol:

3/13 Centers: 23%

Trauma Staff:

7/13 Centers: 64%

Radiology Approval: 3/13 Centers: 23%



AKI Workgroup



Next steps

- Utilizing survey results and other input complete initial draft of state AKI guideline
- –Potentially due another data pull since initial data set is > 5 years old
- -Revisit ISS estimation study



TBI Workgroup

Dr. Elizabeth Benjamin

TBI Workgroup



- Preliminary data presented at summer meeting
- -Identified areas of opportunity in morbidity and patient placement
- Building report to include all severe TBI patients
- –Report in testing stage prior to release
- –Anticipated release by mid March
- –Anticipated data return by mid April

Research goals

- -Identify most common complications amongst GA centers
- -Identify high performers with process sharing aimed at performance improvement
- National comparison/match to define differences in patient placement and outcomes in our long stay population

TBI Workgroup



- •Problem:
- -Identified shared challenge with TBI rehabilitation placement across centers
- •Aim 1:
- -Determine pool of available resource across state
- No central resource currently repository exits
- •Working with SW & Case Mangers at centers to compile shareable list
- •GHA potentially interested in assisting with developing comprehensive list
- •Aim 2:
- -Identify supply/demand ratio
- •Aim 3:
- -Address barriers to disposition



Dr. Katherine Kohler

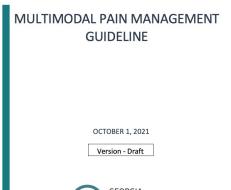


Goals

- Discussion on current state of opioid use/prescribing models in trauma patients
 - Gather existing multimodal guidelines from trauma centers
- Develop a state level guideline to share with all trauma centers
- Consider a Georgia TQIP Opioid Project with retrospective data collection/analysis



- Draft multimodal pain management guideline completed
- Looking for feedback from larger group on current draft
- Key Sections:
- Multimodal Medication Options
- Long-acting opioids with continuous pain source
- Regional Anesthesia
- Alternative Pain Management
- Discharge Planning
- Patient Education





Multimodal Options: Recommend use of a combination of *two or more* medication classes that are prescribed on a *scheduled* basis.

Tylenol

- 1000mg IV q6hrs for 24hrs with pharmacy approval *Then*
- 1000mg PO q6hrs
- · Max 4g in 24hrs

NSAID

• Toradol (15mg/30mg) IV q6hrs 24hrs vs 5 days (dose specific based on GFR)

<u>Or</u>

Toradol 10mg PO q6hrs for 5 days

Or

• Ibuprofen 600 q6hrs

Or

• Naproxen 500mg q12hrs (250mg for Geriatric)

Opioid Workgroup



- Antispasmodic (Caution for sedating effects and cross reactions in conjunction with other medications)
- Methocarbamol 1000mg IV x 24-48hrs

Then/Or

 Methocarbamol 750mg PO q8hr - Adjust dosing for over 65 years to 500 mg four times daily (least sedating of antispasmodics)

<u>Or</u>

- Metaxalone 800mg PO q8hr
- Flexeril 5mg PO q8hr
- Consider for refractory spasms:
- Baclofen 5mg PO q8hr* requires taper if it has been given regularly
- Gabapentinoid (Caution sedating effects in certain individuals and rare depression)
- Pregabalin 75mg PO q8hr x 48hrs

Then

Gabapentin 300mg PO q8hr (max 3600mg/24hrs)

Opioid Workgroup



Other

 Lidocaine patches 5% up to 3 patches – Must have 12 hours off in each 24hour period PRN

PRN Opioid Breakthrough Options

- Oxycodone 5mg PO q4hr PRN
- Tramadol 100mg PO q6hr (renal/geriatric 50mg q12hr)
- Dilaudid 0.25 to 0.5 mg IV Q 2 to 4 hours
- Morphine 2 to 4 mg IV Q 2 to 4 hours * not for patients with renal dysfunction

Opioid Workgroup



Next Steps

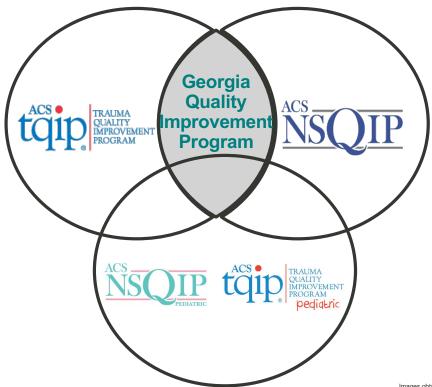
- Feedback on the initial draft of guidelines then creating a final draft for approval
- Follow up on data collection opportunities in the EHR at different centers
- Future research opportunities; ongoing educational opportunities



Georgia Quality Improvement Program & NSQIP Collaborative Update

Joe Sharma, MD, FACS, FACE
GQIP Chair





Images obtained from the American College of Surgeons

TQIP & NSQIP Centers



TQIP Only	NSQIP Only	TQIP & NSQIP	
Archbold	Eisenhower Army	Atrium Navicent	
Piedmont Columbus	Emory Johns Creek	Augusta University	
Northeast Georgia	Emory St. Joseph's	Grady	
Northside Gwinnett	Emory University	Hamilton	
Piedmont Athens	Emory Midtown	Wellstar AMC	
Piedmont Walton	Martin Army	Wellstar Cobb	
Crisp	Northside Hospital-Atlanta	Wellstar Paulding	
Doctors Hospital	Phoebe Putney	Wellstar Kennestone	
Memorial Health	Wellstar Douglas	Wellstar North Fulton	
Atrium Floyd	Wellstar Spaulding	Winn Army	
Redmond	West Georgia	Hamilton	
Fairview Park			
Piedmont Cartersville			



•Blue marker = NSQIP participating center only

•Green marker = NSQIP and TQIP participating center



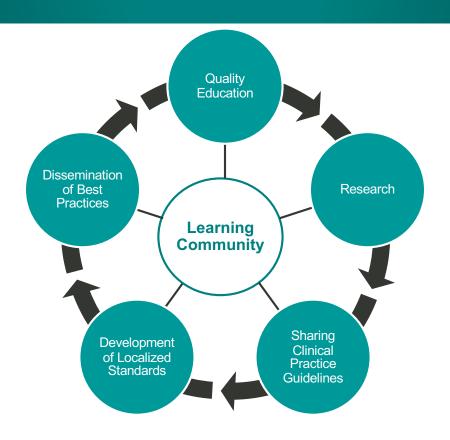
Vision

- •Transparent, collaborative, supportive, non-punitive culture.
- •Forum to share knowledge and best practices.
- •Continually improve quality of care and prevent complications.

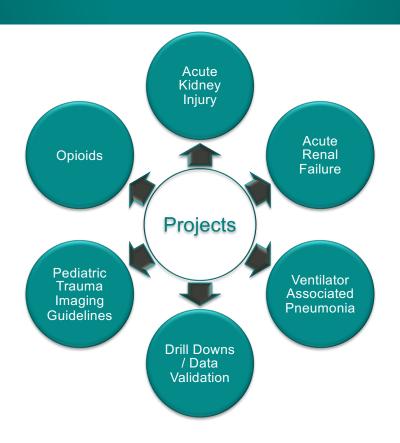
Goals

- Use available risk-adjusted clinical datasets
- Maximize the exchange of information, quality improvement strategies, and best practices.
- Participate in outreach to educate providers and the public on patient safety and quality improvement.











- •Flagship project- opportunities in general surgery and trauma
- Collection of common variables additional to NSQIP and TQIP
- •Important state-wide view of this complication across populations
- Predictive tools and protective bundles (individually and joint)







COVID-19 Resource Center

The American College of Surgeons (ACS) **COVID-19 Resource Center** is an online resource for the surgical community facing the impact of Coronavirus Disease 2019 (COVID-19). Content has been developed or curated under the auspices of ACS Regents and Officers to bring surgeons trusted information, including best practices and guidance that specifically target the concerns and challenges surgeons face.

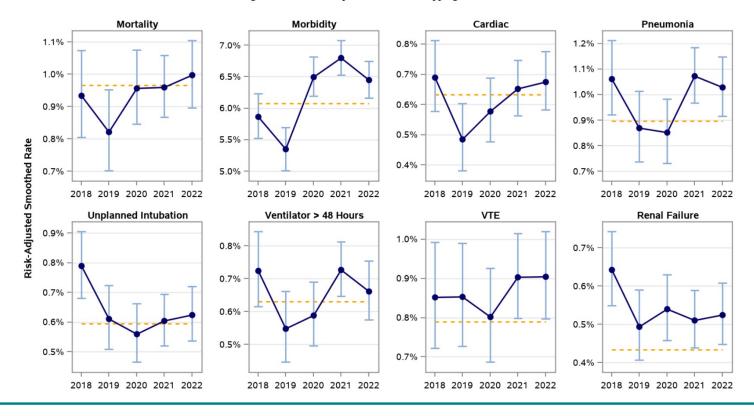
If you have any relevant information you want to bring to our attention, please email covid19@facs.org.





ALL CASES

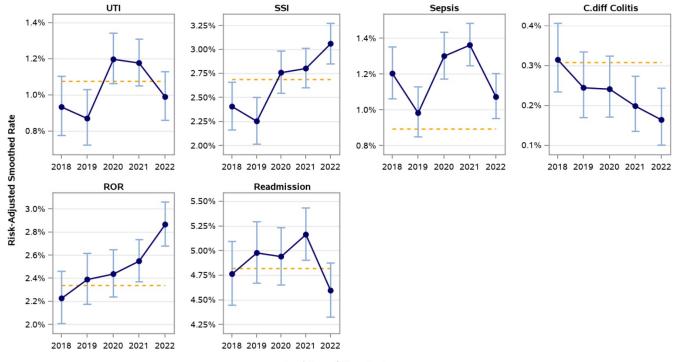
These graphs depict the risk-adjusted smoothed rates, with confidence intervals, computed for the collaborative over time compared to the NSQIP population rate over time. Each collaborative rate is calculated using 12-months of independent, non-overlapping data.





ALL CASES

These graphs depict the risk-adjusted smoothed rates, with confidence intervals, computed for the collaborative over time compared to the NSQIP population rate over time. Each collaborative rate is calculated using 12-months of independent, non-overlapping data.



Semi-Annual Report - January



Surgery Dates July 1, 2020 to June 30, 2021

These graphs depict the percentage of collaborative hospitals assigned to the performance assessment categories based on the current SAR.









Complication	Number Avoided	Cost without a complication	Cost with complication	Diff	Cost Savings in Resource
Pneumonia	662	18939	49060	30121	\$19,940,102
UTI	233	19048	27166	8118	\$1,891,494
Superficial SSI	143	18851	28180	9329	\$1,334,047
Deep SSI	0	19178	32973	13795	\$0
Organ Space SSI	0	18990	35477	16487	\$0
Sepsis	272	18499	45361	26862	\$7,306,464
PE	0	19215	31405	12190	\$0
Readmission	0			11300	\$0
				TOTAL	\$30,472,107

TOTALS	
2014	18899
2015	21393
2016	18956
2017	17458
2018	15250
Total Pts	
2014-2018	91956

Essentials of a Collaborative



Resources

- Common Data Registry
- Leadership
- Culture
- Infrastructure
- Engaged Clinicians

Education/Training

- Guideline/Best Practices dissemination
- Training for QI

Key considerations

- Payor
- Benchmarks
- Bandwidth
 - Support staff
 - Research Scholars



"If culture eats strategy for breakfast, then infrastructure eats culture for lunch."
Brent James



ArborMetrix Update

Gina Solomon

ArborMetrix Update



•What is ArborMetrix?

- -Risk-adjusted statewide trauma care registry to support collaborative quality improvement
- -Uses clinically proven validation, transformation, and risk adjustment
- -Makes data and reports accessible, engaging and easily understood
- -Data analysis completed as data is imported for more real time results
- -System access for GQIP AND center level access for individual centers
- -Provided with 1.3 million dollars in funding by the Georgia Trauma Commission



ArborMetrix Update



- Security assessments complete
- Contract under review by state contracts team
- Peer Review policy and procedure development underway
- Record retention schedules process began
- Projection of project build kick-off: May 2022
- Projection of project completion: November 2022



Important Dates



- GQIP Summer Meeting King & Prince, St. Simons Island
 - August 11-12, 2022
- ACS Quality and Safety Conference Chicago, IL
 - July 15 18, 2022
- TQIP Conference Phoenix, AZ
- December 11 13, 2022



Polling Questions

