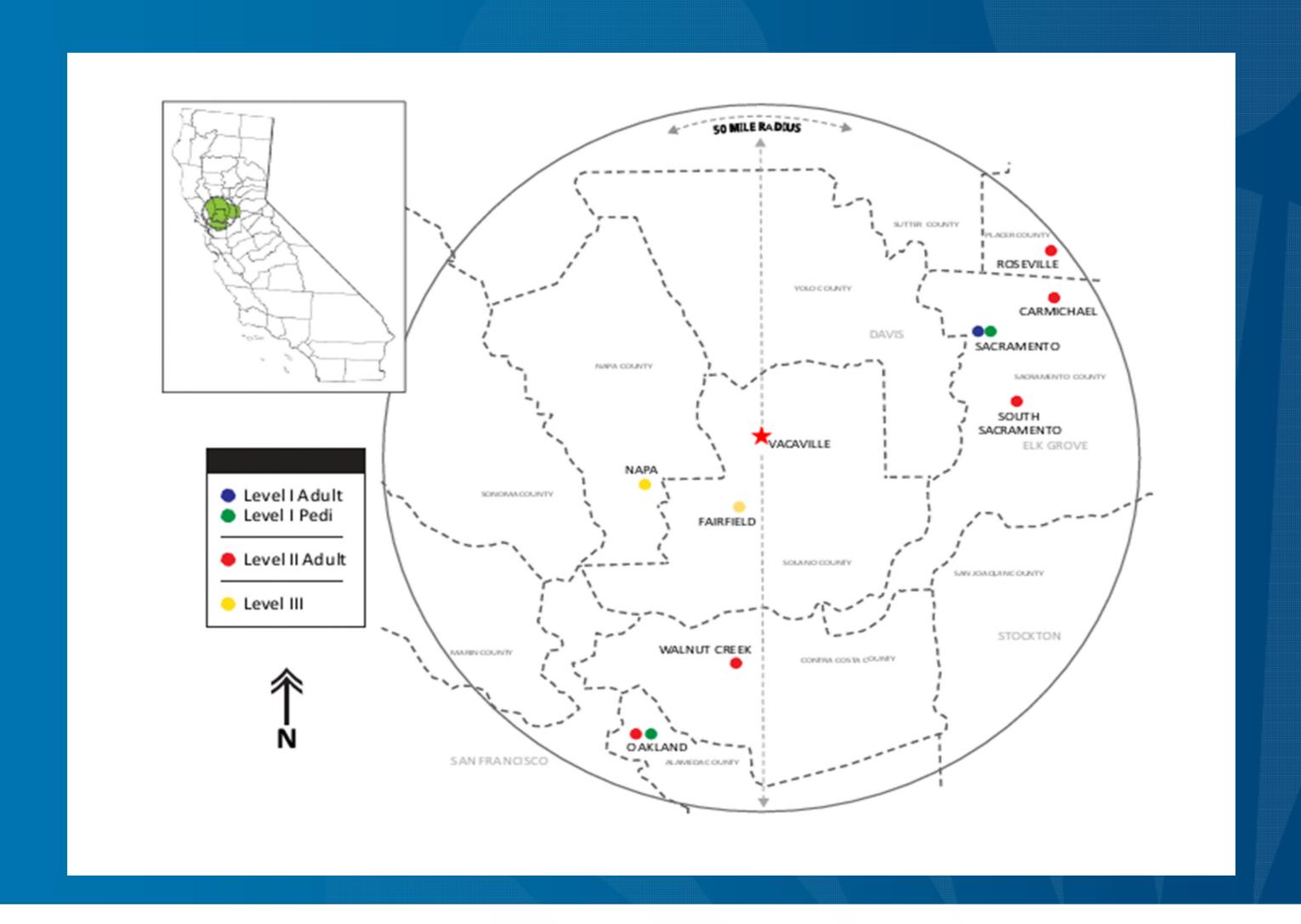






Kaiser Permanente Vacaville Medical Center

KPVAC Catchment Area







Sometimes it's easy

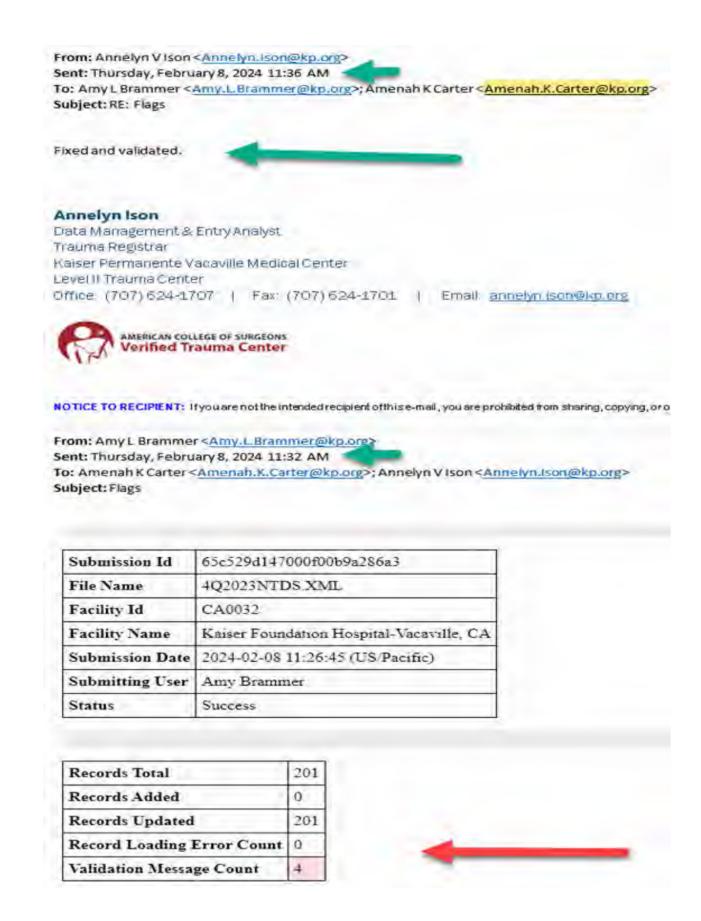




Image Source: Bing creative commons license

Sometimes



Image Source: Bing creative commons license

TQIP Data Quality Report Filters

Data Quality Filter

More than 10% patients with an unknown Sex

Atypical percentage of records meeting the TQIP Patient Inclusion Criteria (Mean +/-2 STD (95%))

Atypical percentage of records reported with Major Hospital Events (Adults <1% or >15%; Pediatrics >4%; Level III >7%)

More than 10% of patients with an unknown BMI (Adult and Level III Centers ONLY)

More than 10% of patients with an unknown Initial ED/hospital Temperature

More than 10% of patients with an unknown Length of Stay (LOS)

More than 10% of patients with an unknown Initial ED/hospital Systolic Blood Pressure (SBP)

More than 10% of patients with an unknown Initial ED/hospital Pulse

More than 10% of patients with an unknown Initial ED/hospital GCS Motor

More than 10% of patients with an unknown Pre-hospital Cardiac Arrest (Level III Centers ONLY)

More than 10% of patients with an unknown Pre-Existing Conditions

More than 1% of patients with an unknown Hospital Events

TQIP Data Quality Report Filters

	Data Quality Filter
More than 10% patients with an i	unknown Sex
Atypical percentage of records m (95%))	eeting the TQIP Patient Inclusion Criteria (Mean +/-2 STD
Atypical percentage of records re Pediatrics >4%; Level III >7%)	ported with Major Hospital Events (Adults <1% or >15%;
More than 10% of patients with a	in unknown BMI (Adult and Level III Centers ONLY)
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More than 10% of patients with a	n unknown Initial ED/hospital Systolic Blood Pressure (SBP)
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More than 10% of patients with a	n unknown Initial ED/hospital GCS Motor
More than 10% of patients with a	in unknown Pre-hospital Cardiac Arrest (Level III Centers ONLY)
More than 10% of patients with a	in unknown Pre-Existing Conditions
More than 1% of patients with an	unknown Hospital Events

Roadblock to receiving a TQIP Benchmark Report



Nobody Move



Image Source: Bing creative commons license

Submission Frequency Height

Initial ED/Hospital Height	First recorded height within 24 hours or less of ED/hospital arrival.	Documented	176	8000 W T
		Not Knowill Recorded	-39	12.00
Initial ED/Hospital Weight	First recorded weight within 24 hours or less of ED/hospital arrival.	Documented	194	56,(2.9)
		No. of Concession, Name of Street, or other Designation, Name of Stree		

Time to Data Mine



Image Source: Bing creative commons license

We hit GOLD for HEIGHT.



Image Source: Bing creative commons license

After clean up and re- submission

Initial ED/Hospital Height	First recorded height within 24 hours or less of ED/hospital arrival.	Documented	185	92.04 %
		Not Known/Not Recorded	16	7.96 %
Initial ED/Hospital Weight	First recorded weight within 24 hours or less of ED/hospital arrival.	Documented	195	97.01 %

Not out of the woods yet



Image Source: Bing creative commons license

.05% from disaster

Initial ED/Hospital GCS -	First recorded Glasgow Coma Score (Eye) in the ED/hospital within 30 minutes or	1-No eye movement when assessed	4	(.99 %
Eye	less of ED/hospital	2-Opens eyes in response to painful	0	0.00 %
	arrival	3-Opens eyes in response to verbal	4	1,99 %
		4-Opens eyes spontaneously	173	88.07 W
		Not Known/Not Recorded	20	9.95 %



Hanging by a thread?

Image Source: Bing creative commons license

Data Mine and an Intervention

Data Mine:

Double check the not known/ not recorded

Intervention:

- Gather stakeholders
- SBAR

Situation=

Initial ED/Hospital GCS is within .05% of causing failure to be benchmarked ACS Standard 7.4

Background=

Looking at Jan 1, 2023, through Nov 30, 2023, we have a not documented rate of 9% for GCS

Of the 9% almost 4% are those coming by ambulance not activated (some are non trauma service admissions, some are trauma consults, none are activations)

3 % of the 9% are patients coming by POV (some are non trauma service admissions, some are trauma consults, none are activations)

The others are repatriated patients.

The low hanging fruit is the 4% arriving by ambulance

Not all ambulance patients are seen right away. Ambulance patients with stable medical conditions are directed to the waiting room, where they check in and wait.

Assessment=

GCS is not part of the triage workflow and will require an add The trauma patients that are walk in's or by EMS that do not meet activation criteria wait. They wait longer than 30 minutes the GCS is missed. I have been told they will have to add a field to accommodate but it would affect every KP.

Recommendation=

Add a field to accommodate GCS at triage

INITIAL ED/HOSPITAL GCS-TOTAL

DESCRIPTION

ELEMENT VALUES

Relevant value for data element

ADDITIONAL INFORMATION

normal mental status, report this as GCS score of 15 in there is no other contradicting documentation.

 The null value "Not Known/Not Recorded" is reported if Initial ED/hospital GCS-40 is reported.

30 minutes of ED/hospital arrival.

 Please note that the first record ED/Hospital vitals do not need to be from the same assessment.

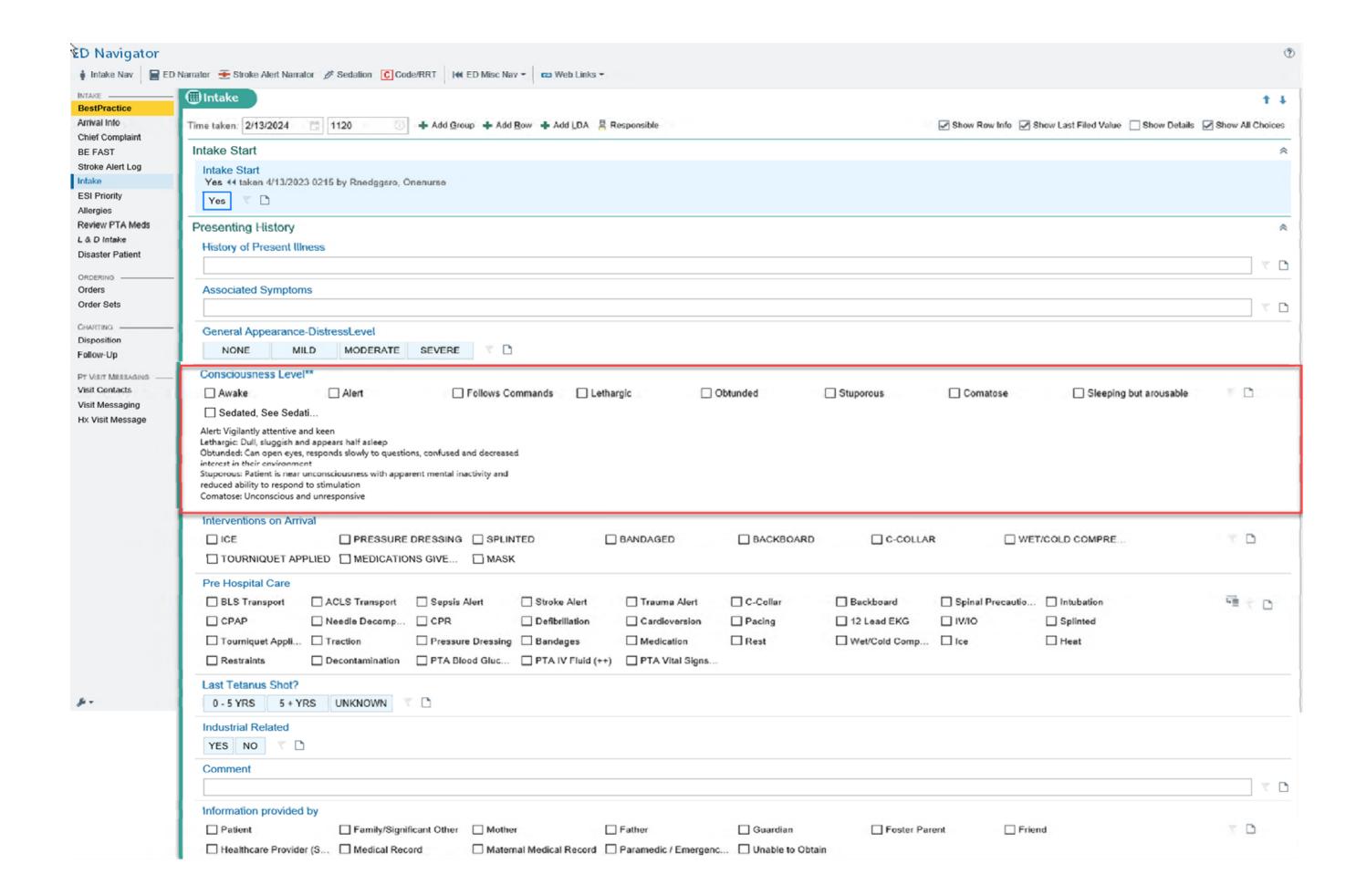
DATA SOURCE HIERARCHY GUIDE

- Triage/Trauma/Hospital Flow Sheet
- Nursing Notes/Flow Sheet
- 3. Physician Notes/Flow Sheet

ASSOCIATED EDIT CHECKS

Rule ID	Level	Message
5701	1	GCS Total is outside the valid range of 3-15
5703	3	Initial FD/Hospital GCS - Total does not equal the sum of Initial FD/Hospital
		Motor, unless any of these values are "Not Known/Not Recorded"
5705	2	Element cannot be blank
5706	2	Element cannot be "Not Applicable"
5707	7	
		Motor are reported
5740	1	Single Entry Max exceeded

Row add for intake navigator formally requested



Do not wait until the last minute to upload



Image Source: Bing creative commons license

Fall 2023 TQIP Benchmark Report



Image Source: Bing creative commons license

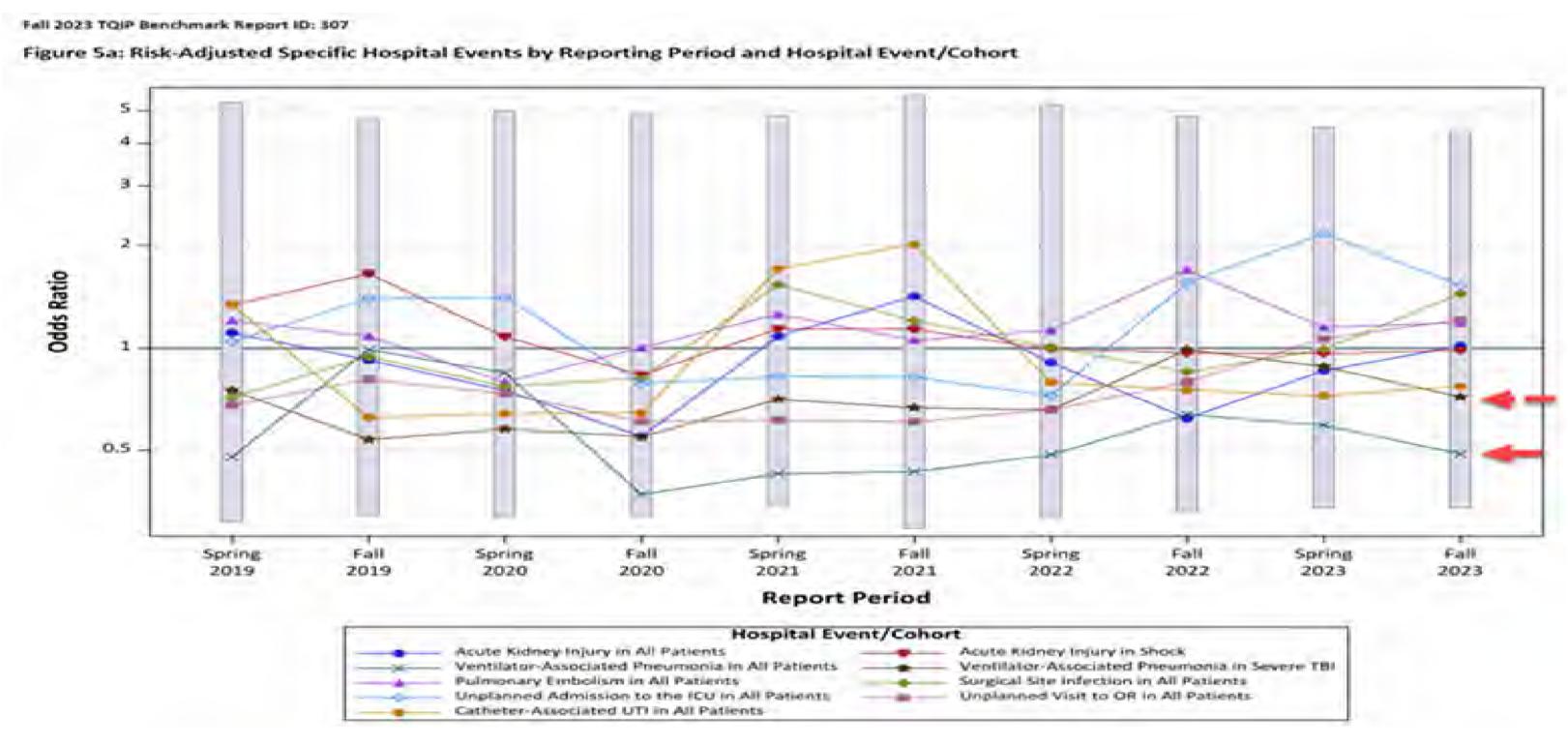
Red Diamonds not a Trauma Programs BEST Friend



Top 3 Successes

1) Risk – Adjusted Specific Hospital Events Ventilator Associated Pneumonia in All Patients

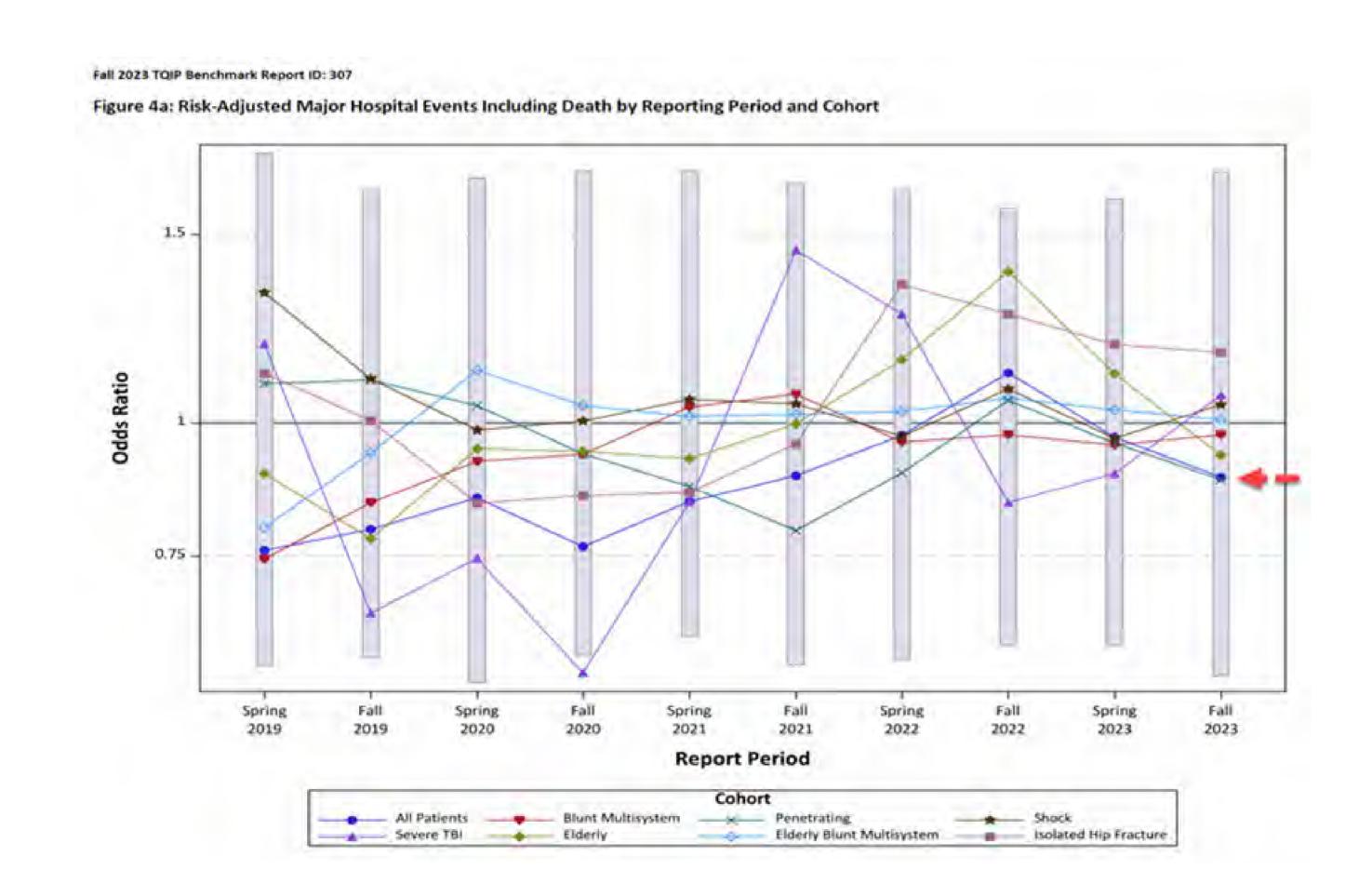
KP Vac is 2nd Decile for all patients (285 patients with zero observed VAP events) and 3rd Decile for Severe TBI (10 patients with zero observed VAP events). Pg. 7 in TQIP benchmark report



Top 3 Successes

2) Risk -Adjusted Mortality by Cohort – Penetrating

KP Vac is 3rd Decile (14 patients with zero observed mortality events). Pg.3 TQIP benchmark report



Top 3 Successes

3) Resource Utilization by cohort – All patients

KP Vac Length of Stay median of 5 days compared to all Hospitals median of 6 days, KP Vac ICU Utilization median of 3 days compared to all Hospitals median of 4 Days, KP VAC Mechanical Ventilation median of 3.5 days compared to all Hospitals median of 3 days (299 patients in all patient's cohort). Pg. 24 TQIP benchmark report

Fall 2023 TQIP Benchmark Report ID: 307

VII. Patient Characteristics

Table 10: Resource Utilization by Cohort

		Patients		icu	Utilization	Mechanic	al Ventilation		Unknown LC (%))S
Cohort	Group	N	Median (IQR)	Patients with ICU Care (%)	Median ICU Days (IQR)	Patients with Mechanical Ventilation (%)	Median Days on Ventilator (IQR)	Hospital	icu	Ventilator
All Patients	All Hospitals	395,750	6 (3-10)	45,5	4 (2.7)	17.5	3 (2-8)	0.1	0.1	0.1
	Your Hospital	299	5 (3-9)	49.5	3 (2-5.5)	12.0	3.5 (2-10)	0.0	0,0	0.0

Top 3 Opportunities

1) Unplanned Admission to the ICU in ALL Patients

KP Vac is an average outlier in the 10th decile (slight improvement over "high" outlier in Spring 2023). Monitoring and taking actions to prevent being an outlier in the future. There were 15 observed events at KP Vac. 5.3 % observed compared to an expected of 2.9%. Pg.15 TQIP benchmark report. See the attached A3.

Table 5: Risk-Adjusted Specific Hospital Events by Hospital Event/Cohort

		Patients		Specific	lospital Event		B	dds Ratio and antidence in			
Hospital Event	Cohort	N	Observed Events	Observed (W)	Expected (%)	TQIP-Average	Odds Ratio	Lower	Upper	Outlier	Decile
Acute Kidney Injury	All Patients	253	2	0.7	0.7	0.6	1.02	0.42	2-84	Average	â
Acute Kidney Injury	Shock	7	Ď-	úά	0.9	4.7	0.98	0.27	2,60	-Average	Θ
Ventilator-Associated Pneumonia	All Patients	289	0	ūα	(i.s.	ψ8	0.49	0.13	1.88	Average.	1
Ventilator-Associated Pneumonia	Severe TBI	ti	à	ûû	5,6	6.61	0.72	0.15	3.31	Average	- G
Pulmonary Embolism	All Patients	28-	9.0	11	0.6	Δ6	1.19	1/25	256	Average .	8
Surgical Site Infection	Ali Patients	285	3	4.0	0.9	0.5	1:45	0.57	3.68	Average	9
Unplanned Admission to the ICU	All Patients	285	18	5.1	1.0	3.1	153.	1) 9%	2 44	-Everage	10
Unplanned Visit to OR	All Patients	289	3	1.6	19	2.0	120	0.61	244	Auryligo	9
Catheter-Associated UTI	All Patients	285	0.	0.0	0.7	0.2	#17	0.12	3,20	-Apprage	3.

Project Name: Trauma unplanned ICU stays (including bounce backs to ICU)

Last Updated Date: 8/14/2023

Prepared By: Jessica Pemberton

Department(s) / Team Members: Trauma: Dr. Travis Gerlach, Dr. George Liao, Amy Brammer, Jessica Pemberton.

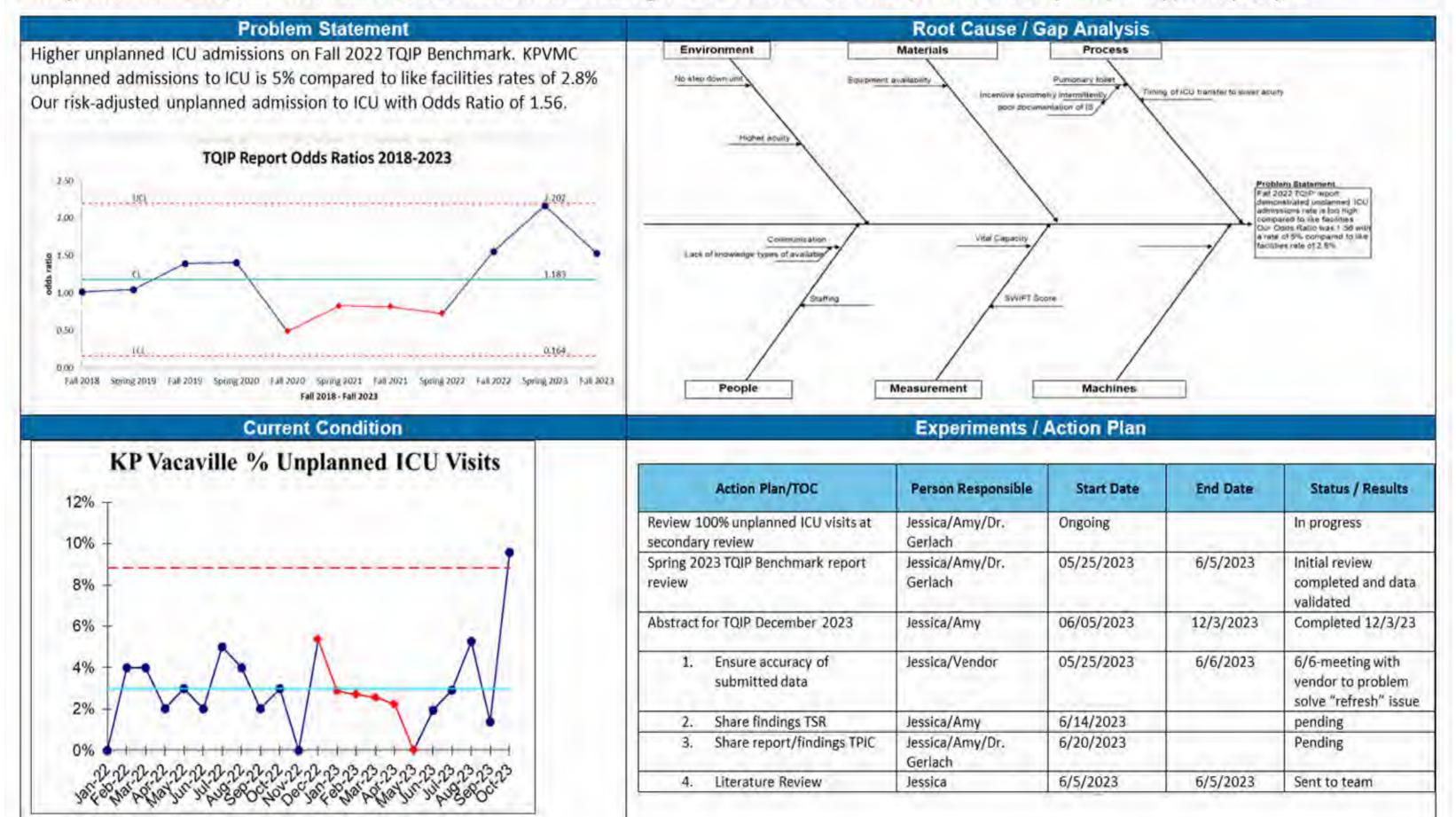
Not at target: Share Improvement Plan

At or Just Below Target: Share Improvement

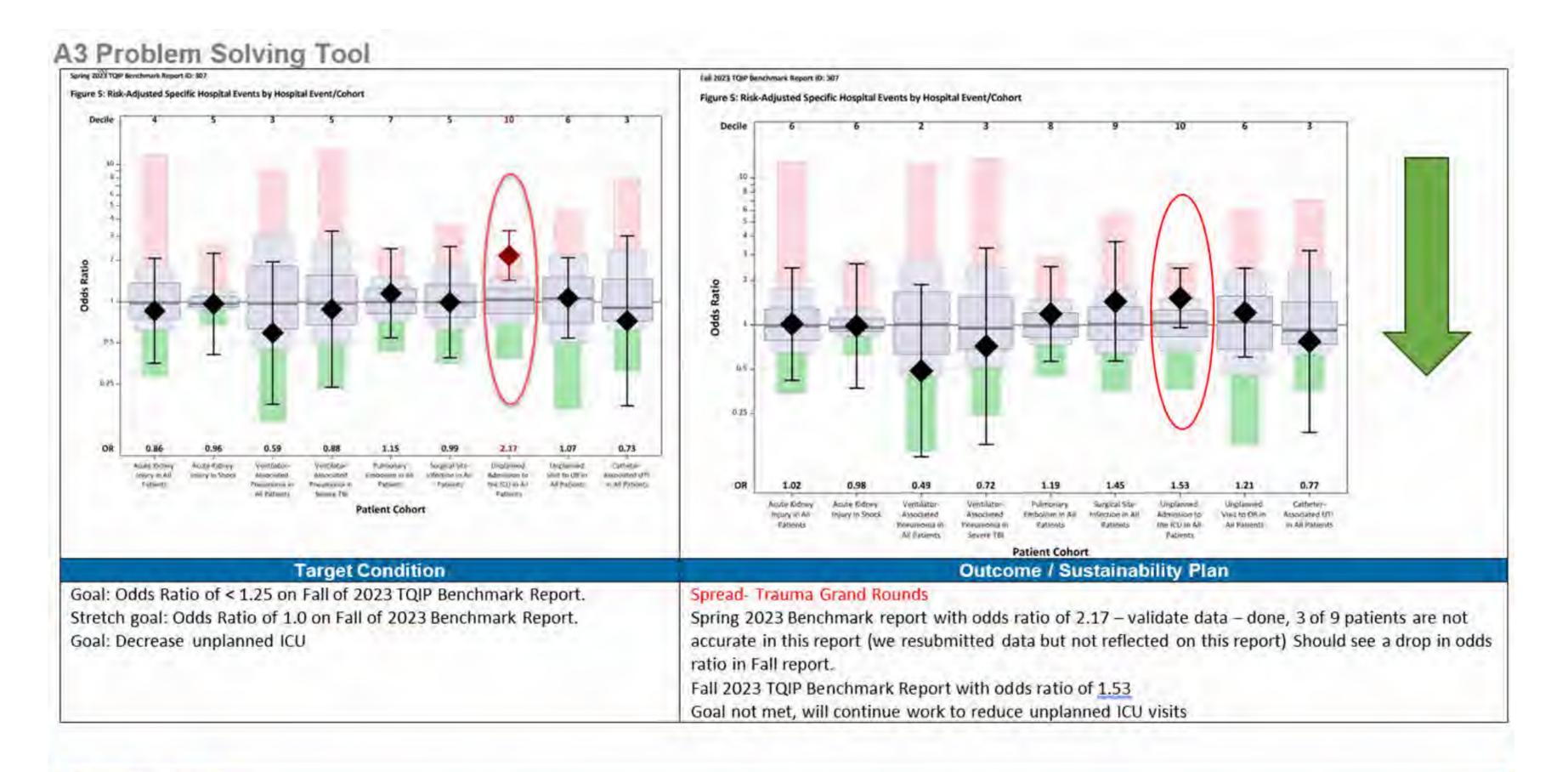
On Track: Share Sustainability Plan

ICU: Dr. Kara

Rakoczy, Victoria Grant CNS, Dawn Roberts Patient Care Services Director. Med/Surg Tele: Dr. Michelle Lim, Annette T, Geriatric CNS. Respiratory Therapy: Carolyn Coy, RT



A-3 Page 2



Current Activities

8/14- 1 unplanned return to ICU in June - hip fx, HBS/Ortho, ISS 10, death. Case to be reviewed TPIC for any physician OFIs. Pt was a transfer in from KP Vallejo with MMP.

A3 page 3

A3 Problem Solving Tool

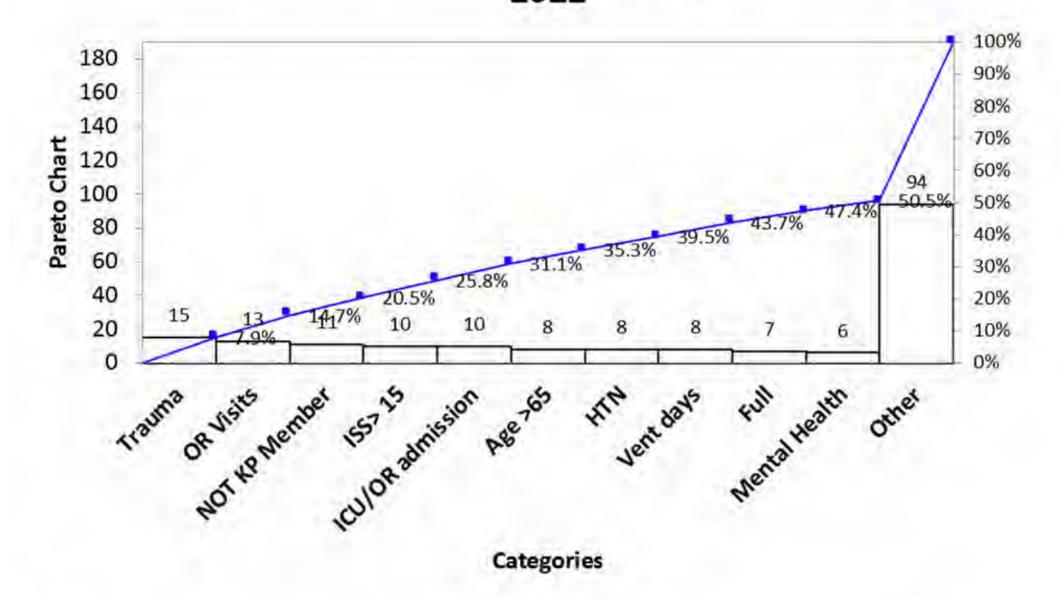
	J - 14	turn to ICL	nplanned ret	U or U	planned IC	Un	
					ED Dispo		
	EDLOS AVG	ED intubation	NA(repat)	Obs	OR	Floor	ICU.
	1.6 hrs	1	1	1	2	1	9
5- 2	Trachs	tal) -8 pts	Vent Days (to	total)	ICU LOS (os	HLO
Avg	Range	Avg	Range	Avg	Range	Avg	Range
8 d	3-13 d	10.5 d	4-19 d	13 d	3-32 d	25 d	10-45 d
Midline shift	Time Range	Time AVG	Crani	At least one AIS in Head	Spinal Stabilization	COVID+	MTP
2	2.9-107.8 hr	55 hr	2	9	1	4	2
		Range	Open tib fib repair Avg		Operative Hip Fx	Time to splenectomy	plenectomy
		1-61.3h	22.6 h	16.67 h		24.38 h	1
	%	Prophy -939	VTE		Time to Prophyl	ED	GCS
	None	UH	Lovenox	Avg	Range	Avg	Range
	1	1	12	92 h	13-289 h	12	3-15
				l of life	Days withdrawa support	s	ıs
				Avg	Range	Avg	Range
				22 d	10-39 d	25	10-59

	Overall # Pts	Overall Avg HLOS	Overall # with ICU days	Overall Avg ICU LOS	Overall Avg ISS	Repat #	Repat Avg HLOS	Repat # with ICU days	Repat Avg ICU LOS	Repat Avg ISS	#≥65 y	≥65 y Avg HLOS	≥ 65 y# with ICU days	≥65 y Avg ICU LOS	≥ 65 y Avg ISS
Jan-22	6	23.3	3	9.6	20	1	19	1	9	38	1	17	Ō	0	9
Feb-22	7	26.6	5	13.4	26.3	1	22	0	0	22	2	30	1	2	9.5
Mar-22	5	55.8	2	42	22.2	3	80	2	42	30	1	17	0	.0	10
Apr-22	3	31.3	1	4	21	2	37	0	0	22	0	0	0	0	0
May-22	10	28.5	7	14	15	1	44	40	40	33	2	25.5	1	2	9.5
Jun-22	-6	35	5	20	18.3	4	39.2	3	23	17	3	35.3	2	33.5	10
Jul-22	7	26.1	5	6	20.3	2	26	1	7	28	1	19	1	3	5
Aug-22	7	29.7	6	12	25.7	1	33	1	5	22	4	33,3	3	12.3	23
Sep-22	6	23,3	5	11	16.2	2	15.5	2	6	23	4	20.75	3	11	14
Oct-22	7	22,4	6	7,5	25.6	2	16.5	1	11		1	27	1	15	25

A-3 Page 4

A3 Problem Solving Tool

Pareto Chart - Common Factors of Unplanned ICU 2022



Past Actions	Person Responsible	Start Date	End Date	Status / Results
RT Trauma Grand Rounds	Carolyn/Evan	February 2023	February 2023	Reschedule/pen
RT meet and greet with surgeons	Carolyn/Amy			Completed/Succ essful
SWIFT tool	Jessica	NA	NA	Not effective for all ICU admission types

ICU Bounce-Backs: The RED Diamond; Is It The Software, Or Is It ME?

Jessica Pemberton MSN RN CEN TCRN CAISS CSTR, Annelyn Ison CAISS, Amenah Carter BS

Kaiser Permanente Vacaville Medical Center

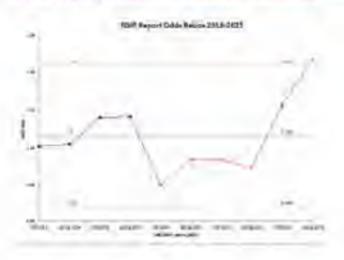
What Happened

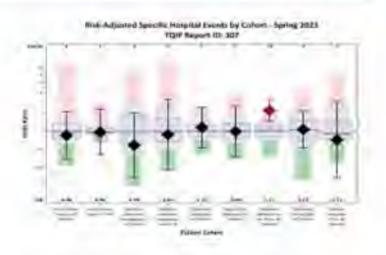
Kaiser Fermanente Vacaville Medical Center had higher than anticipated volume of unplanned IOU visits Fall 2022 TOIP Report. We pulled a group together and worked on accuracy with our next submission. In Spring of 2023 we were expecting good things on our benchmark report.

Amagine our surprise at seeing a RED DIAMOND!

So here we are with a real diamond Wishing if Was green or at least black. We had been running the bases living to norige that red diamond. If tanged us despite our best errors.

Graph Opportunities/Reports





Initial Actions

Step 1 - Pull the patient population from the TQIP Data Center from the TQIP Fall 2023 Report.

Step 2 - Review each patient for similarities or commonalities that seemed to predispose them to "bouncing back" or having and unplanned ICU visit. Work Group developed to assist (A3)

Step 3 - Recognition of inaccurate data (phew)

Step 4 - Inclusion of registry vendor to assist in identification if this was software problem.

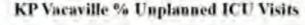
Step 5 - Learned that each time you change anything in the EVENTS or Preexisting condition fields in the trauma registry the information had to be re-verified.

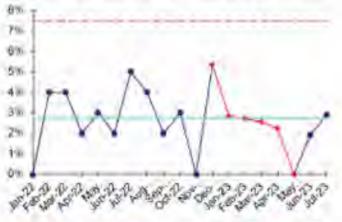
Step 6 - Went through every record in current quarter and ensured it was refreshed.

Step 7 - TQIP report time—And uh oh a RED

DIAMONDI Diamonds are supposed to be a girl's best
friend but red? Not so much...

Graph current state pending Fall 2023 Benchmark Report









Many trauma centers struggle with minimizing the frequency of unplanned ICU visits. Either a floor patient decompensates and is transferred to the ICU or a patient previously in the ICU bounces back due to decompensation. These unplanned ICU visits are associated with higher cost of care and increased mornidity and mortality. Our center had noticed the insidious creep of the ICU bounce backs into the danger zone of the TQIP Benchmark report.

- Gathered key stake holders, trauma surgeons, critical care physicians respiratory therapists, and nursing.
- . Worked together to identify commonalities respiratory compromise
- Developement of new smart phrases for providers for respiratory therapy orders
- Familiarized providers with the different modalities available from respiratory therapy at Trauma Grand Rounds and one on one with providers
- Reviewed the registry it was identified that what we saw was NOT the value submitted to NTDB.
- Contacted our registry vendor for assistance to determine if there was a mapping error and to help problem solve
- The registry data was corrected and resubmitted for all of 2022.

The software vendor no longer supported system refresh or refreshing a subset of records. The team went in each and every record and made sure the record was re-validated.

Our current submission to TQIP was sent in June after a thorough review of the Submission Frequency report which focused on our Events to ensure our numbers match what we pull from the registry.

We anticipate a much-improved appearance on our TOIP report in Fall of 2023 which is the first report that will reflect the corrects that were made with the data once refreshed.

Real time case review, working with vendor to come up with a simpler fix than manually reviewing each record prior to submission to refresh individually, ongoing work group and ultimately a TQIP report that reflects and matches our data. You cannot fix a problem when a big part of the problem is not identified. We identified the problem and (fingers crossed) Fixed it.

So how do you avoid being lace down in the did just before nome plate? Validate your submission frequency report early, know your cut off dates, and keep yourself engaged and in the game of Trauma.

References

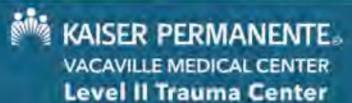
Layin AD, Sins CA, Risk Factors for Unplanned ICU Neadminster Among Traums Patients: Age Matters, Crit Care Eighter, 2022 Oct 2014 (10):e0778. doi: 1017/CDE.000000000000778. PMID: 39294500 (RM-OD: PMC9554921.

Making HE, Hadam RD, Layth AD, Dramond CA, Sims CA. Lingtonned ICU Admission is Associated With Worse Clinical Outcomes in Gerlatric Trauma Patients. J Sung Ras. 2020 Jan 245(19.21. doi: 10.1016/j.jas.2019.06.059. Epub 2019 Aug 5. PMID: 213744028

Ramay SE, Americ S, Callas P, Papathnick L, Les TH, An GC, Malbotra AK, Dalay in ICU sandar in protective against ICU readmission in trauma patients: a realizati-postediad aspertment: Trauma Surg Advise Care Open 2021 Feb 17:N11 e000M/S. doi: 10.11 TAVISACI-2021 000M/S. PMID: ELMISORP. PMICID: PMIC/10/3165.

Crown PC, Wheaver FJ, Suresh S, sing SA, Smith LM. Effect of Timing of Readmission to the ICU on Monthly in Traums Patients Requiring Critical Card. Am Surg. 2022 Fath 29:31348231141495. doi:10.1177/00021348231141495. Epub phead of parks PMID: 36954145.

ia Center



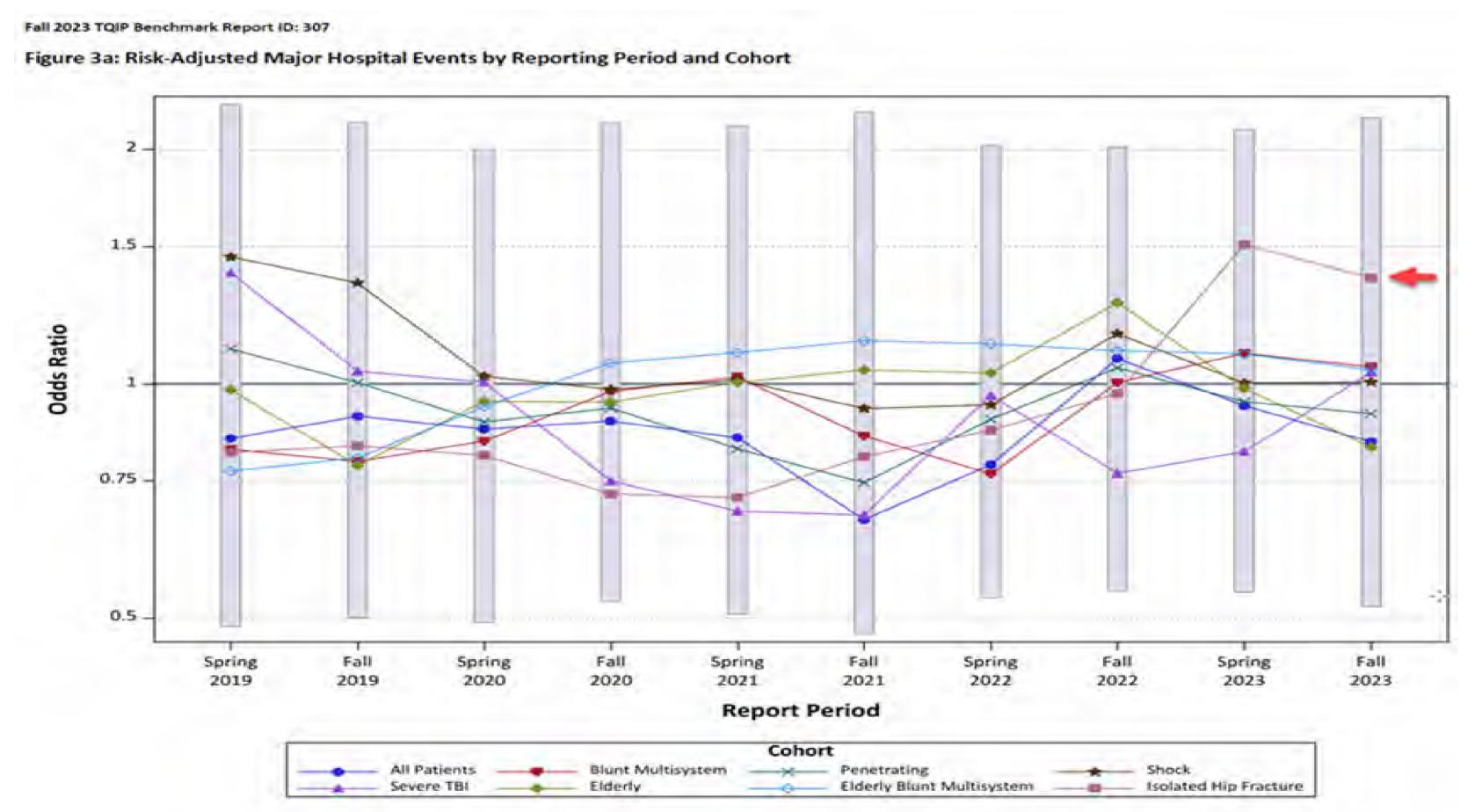


Top 3 Opportunities

2) Risk- Adjusted Major Hospital Events Including Death by Cohort Isolated Hip Fractures

KP Vac is an average outlier but in the 8th decile. There were 75 patients in the cohort with 6 observed events.

8.0% observed compared to and expected of 5.6%. Monitoring and taking actions to prevent becoming an outlier in the future. Pg.11 TQIP benchmark report.



Project Name: Geriatric Hospital Event Reduction

Last Updated Date: 6.6.2023

Prepared By: Jessica Pemberton

Department(s) / Team Members: Trauma- Jessica Pemberton, Amy Brammer, Dr. Travis Gerlach, Intensivist- Dr. Rakoczy

HBS- Dr. Lin, Geriatric CNS-Annette Tuatagaloa, ICU CNS Victoria Grant



Not at target: Share Improvement Plan

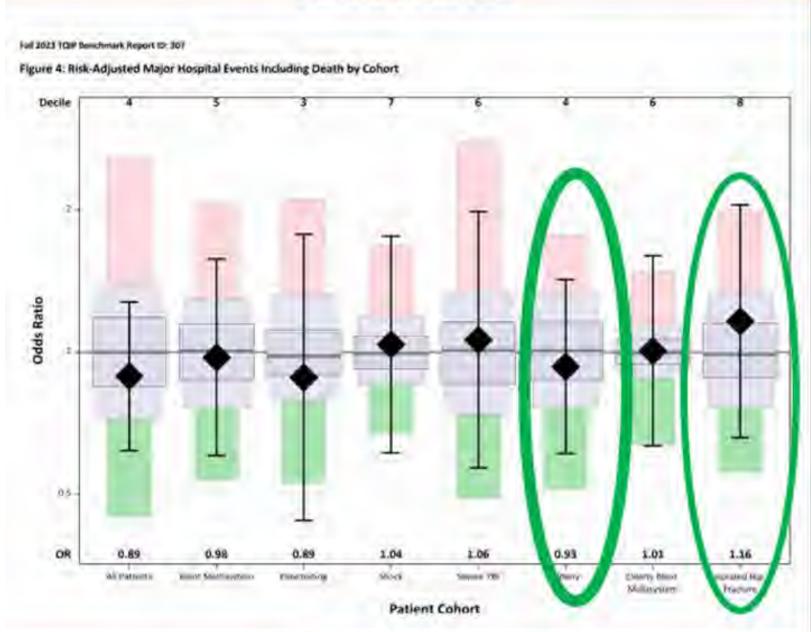
At or Just Below Target: Share Improvement

Plan

On Track: Share Sustainability Plan

Problem Statement	Root Cause / Gap Analysis
all 2022 TQIP Benchmark Report demonstrates KP Vacaville is an average utlier at the 10 th decile for Risk Adjusted Major Hospital Events including eath for Elderly Cohort. The current performance is a departure from storical comparisons.	See Geriatric files
Current Condition	Experiments / Action Plan

Sponsor(s): Sanjit Singh, COO



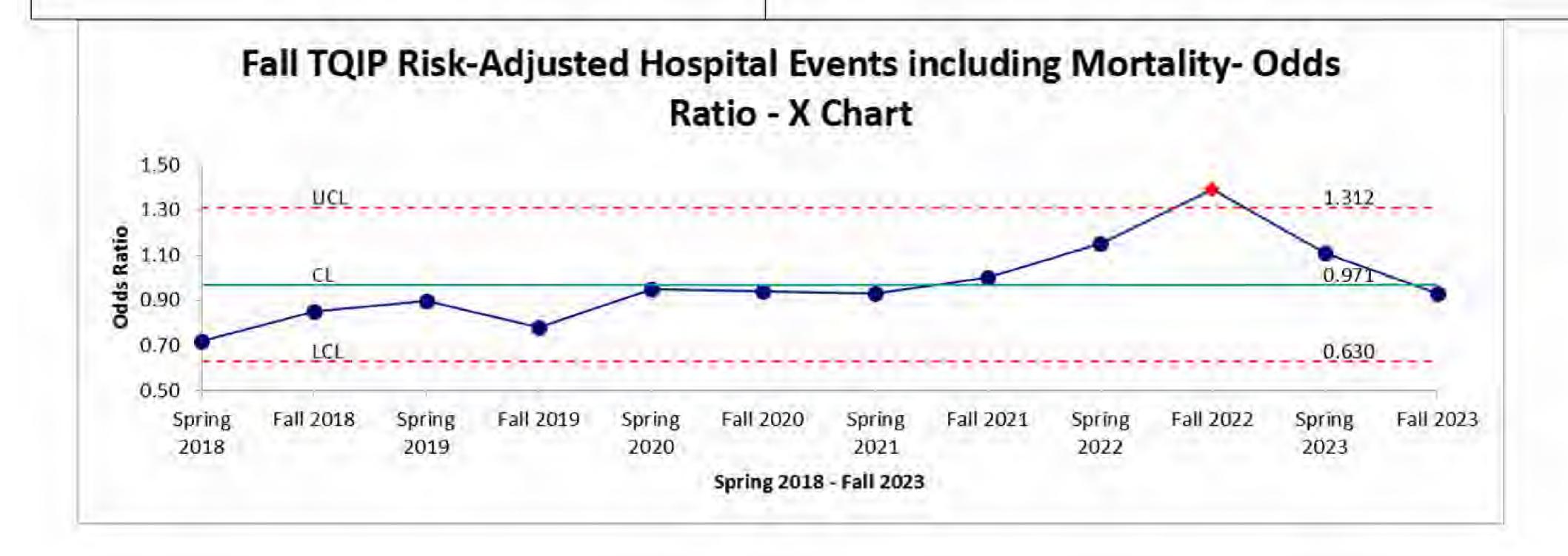
	Person Responsible	Start Date	End Date	Status / Results
Geriatric Core Work Group Development	Jessica/Dr. Gerlach	12/2/2022	12/2/2022	Ongoing while in project phase
Fall 2023 TQIP Benchmark Review	Jessica/Amy, Dr. Gerlach	11/21/2023		In progress, to be shared at TSR/TPIC

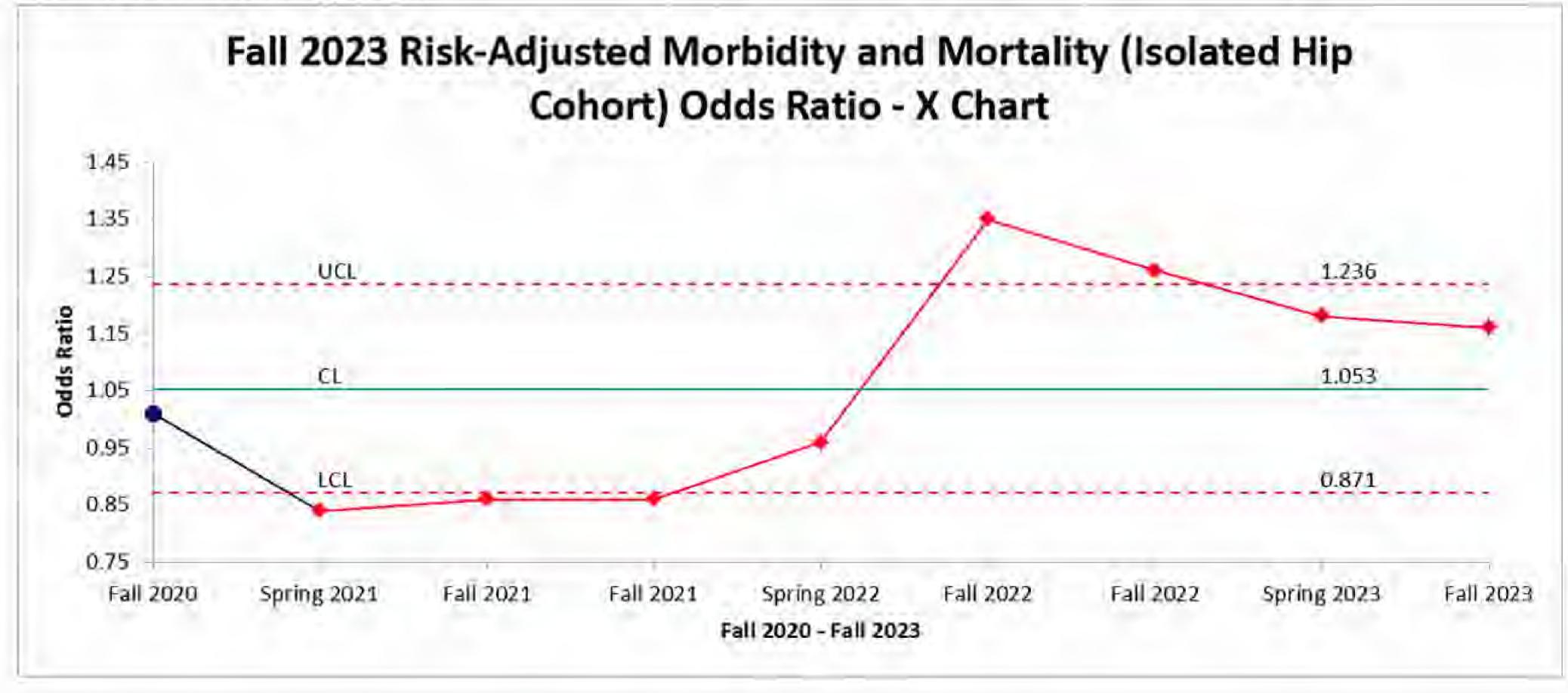
Target Condition Demonstrate a decrease in geriatric morbidity and mortality from odds ratio of 1.39 to odds ratio of 1.0 by Fall TQIP report 2023

Spring 2023 Benchmark report with odds ratio of 1.11, an improvement from Fall 2022 report.

Ongoing work on Geriatric CPG and Compliance with CPG
Fall 2023 Benchmark report with odds ratio of 0.93, GOAL met
In the isolated hip fracture cohort the odds ratio decreased from 1.18 to 1.16,
We are continually improving these outcomes.

Fall 2023 demonstrates KP Vacaville at 4th decile, a significant improvement over one year period





Spring 2023 Geriatric Cohort mortality cases - 14 pts

	Loc	ation				MOI			Co	morbiditi	es
ED	ICU	Floor	Hospice		Fall	GSW	MVPed	MVC	None	1-2	3+
2	5	3	4	Deaths	3	2	2	3	1	3	6
				Hospice	4	0	0	0	0	1	3
		Activat	tion Level					njury Seve	rity Scoring	}	
	Full	Limited	Consult	NOT	NA	Range	AVG				
npt death	3	3	2	0	0	9-50	23	0-9	10-15	16-25	25+
OC hospice	0	0	2	2	0	Facility	y Death	1	2	3	4
Died in ED	1	0	1	0	0	Hospice	patients	1	1	1	1
H	ospital LO	os	ICU	LOS	Vent	days		Goals	of care disc	ussion	
	Range	AVG	Range	AVG	Range	AVG	1 day	2 day	3 day	4+d	>10
Inpt	0-29	9	0-27	9	0-16	8.3	2	1	1	2	2
Hospice	2-11	6	3-5	4	0	0	3	1			
				Asso	ciated Ho	spital Eve	nts				
VAP	CPR	AKI	unplanned	unplanned	CVA	Pressure	prolonged				
VAF	CFN	AM	intubation	ICU	CVA	Injury	ED LOS				
0	3	1	3	3	1	1	4				
					G	CS					
EMS A		rrival	Highest in TBI (6 pts)		Highest motor (6 pts)		Pupillary response (8 pts)		Midline shift (8 pts)		
Range	AVG	Range	AVG	Range	AVG	Range	AVG	Neither	Both	Yes	No
3-14	10.7	3-15	10.2	4-15	11.5	1-6	4.5	3	5	1	7
	-	PRBC	in 1st 4 hrs	- 1 pt			SBP lov	west ED		EtOH u	se -1 pt
PRBC		-	The state of the s					pts		Name and Address of the Owner, where the Owner, which is the Own	-
Range	AVG	Range	AVG	Range	AVG	none	Range	AVG			
0-3	3	0-2	2	0-3		70.772	53-110	81.5			
Withdrawal of care Days to withdrawa		withdrawal	0-2 days		3-5	3-5 days		6-9 days		>9 days	
V	No	Range	AVG								
Yes	1,10		1117								

	Person Responsible	Start Date	End Date	Status / Results	Notes
Case review and drill down	Jessica/Amy/Dr. Gerlach	11/12/2022	11/30/2022	Completed/no issues identified	
Gap Analysis 2022 ACS COT Verification Criteria for Geriatrics	Jessica/Amy/Dr. Gerlach				Identified Dr. Lim as liaison for geriatric trauma
Geriatric Trauma Workgroup developed	Jessica	7/5/2022	07/5/2022	Completed	Team members identified
Geriatric Work Group Meeting	Jessica	8/9/2022	8/9/2022	Completed	CPG, Gap Analysis Reviewed
Geriatric "age" definition	Group	12/2/2022	12/2/2022	Completed	Determined age will be 75+
Discuss palliative involvement with Dr. Durkin	Dr. Gerlach	12/2/2022	5/1/2023	tabled	
Meeting with Senior Surgical Care staff to evaluate medication reconciliation process.	Dr. Gerlach	12/5/2022	12/5/2023	Pharmacy will assist based on	
Who should HBS be involved with that are < 75?	Dr. Rakoczy, Dr. Lim	12/2/2022	5/1/2023	done	
Meeting to be set up with Jen Ellis, Tom Pham to review dashboard opportunities	AMY	12/6/2022			
Palliative care Grand Rounds	Dr. Gerlach	5/18/2023	5/18/2023	Attended, recommend other providers also review recording.	
Geriatric Core Work Group Development	Jessica/Dr. Gerlach	12/2/2022	12/2/2022	Ongoing while in project phase	
Update Geriatric CPG from 2020	Dr. Gerlach	11/6/2022	11/2023	6/5-Final stages of review from key stakeholders	
Spring TQIP Benchmark Review	Jessica/Amy, Dr. Gerlach	5/16/2023	6/2023	In progress, to be shared at TSR/TPIC	
Meeting with Pharmacy re. Geriatric Med rec process		3/9/2023	3/2023		
Geriatric meeting with Pharmacy and Geriatric CNS	Amy	6/1/2023	6/2023		

Top 3 Opportunities

3) Time to Tracheostomy (days) -Tracheostomy Management for Severe TBI Patients

KP Vac Median days is 14 days compared to 10-day median in all hospitals. Monitoring and taking actions to prevent being outlier in the future. There were 20 severe TBI Patients. Three TBI Patients with Tracheostomy at KP Vac during this reporting period. Pg. 39 TQIP benchmark report.

Table 30: Tracheostomy Management for Severe TBI Patients

	Severe TBI	Tracheostomy	Time to Tracheostomy (days)	Tracheostomy after more than 7 days	Unknown Time to Tracheostomy
Group	N	N (%)	Median (IQR)	N (%)	N (%)
All Hospitals	27,219	4,581 (16.8)	10 (7-14)	3,188 (69.6)	0 (0.0)
Your Hospital	20	3 (15.0)	14 (3-22)	2 (66.7)	0 (0.0)

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Questions?







Image Source: Amy Brammer