

LOOP CLOSURE

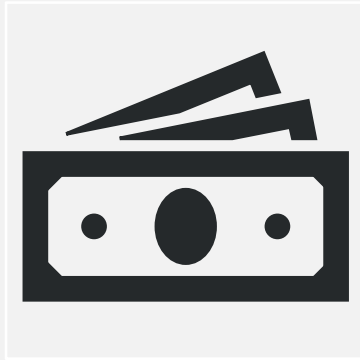
HOW DO WE GET IT?

Meaghan Carroll, RN, MSN, CNL, TCRN, CEN

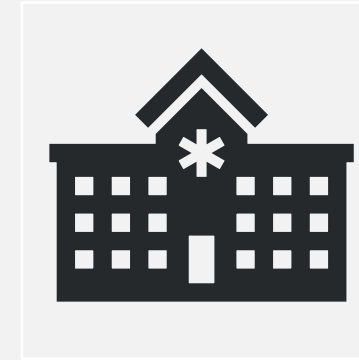
Trauma Process Improvement Nurse

Providence Santa Rosa Memorial Hospital

Level II Trauma Center



Financial— No relevant financial relationship exists.



Nonfinancial— No relevant non financial relationship exists..

OBJECTIVES



Identify strategies to enhance communication between the Trauma Team and the Hospital Multidisciplinary Teams



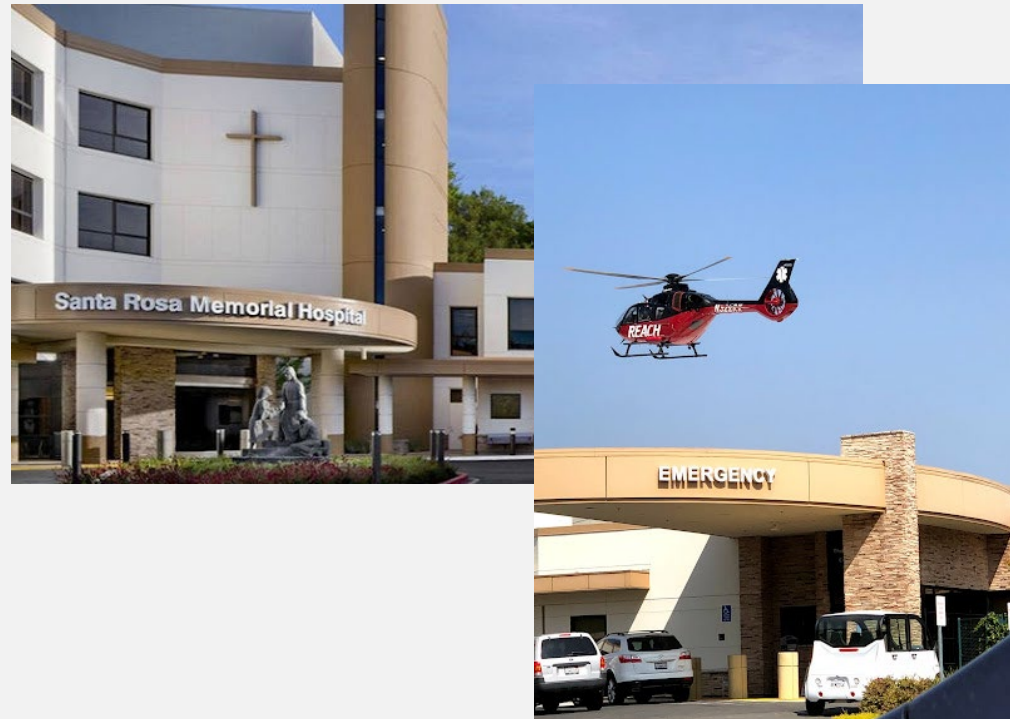
Understand the tools and strategies that enhance team organization and facilitate optimal loop closure



Identify strategies to implement and maintain optimal loop closure

BACKGROUND

- Level II Trauma Center
 - Northern California
 - Wine Country
- Trauma Volume: 3,446
- Admits: 1,879
- MOI: #1 GLMF, #2 MVC



PI TEAM

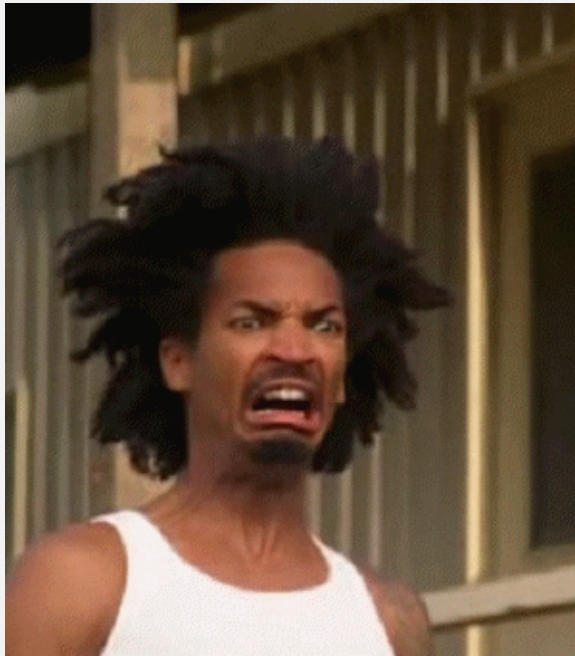


- Total FTE 3.8
- Blended positions VWFH and In Office



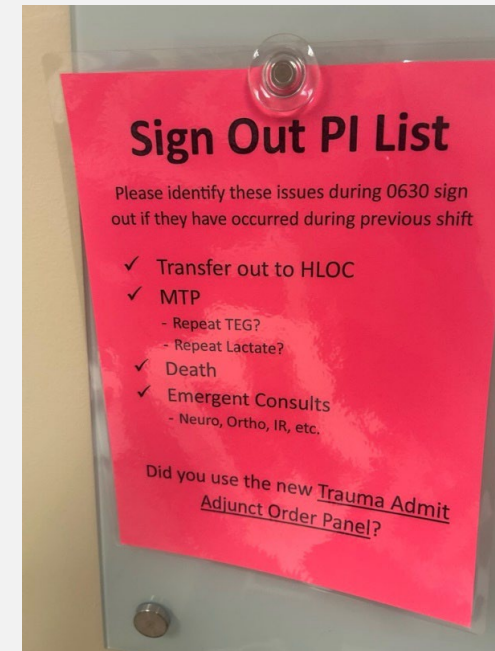


LOOP CLOSURE



ISSUES IDENTIFIED

- Sign-Out
 - Teams Messenger
 - To be time efficient not everyone needs to be there.
- ICU Rounds
 - In Person



TRAUMA TEAM COMMUNICATION – PI LOG

DOS	Patient Name	DOB	MRN	D/C	Dispo	Tx in	TR assigned	Date Assigned	Date Completed	Summary/ Injuries	PI Issues	PIRN Assigned	P1 Review Date	P2 Review Date	P3 Review Date	PI Status
8/1/2024	Mouse, Minnie	4/18/1991	123456789	8/6/2024	Morgue/Funeral Home		AB	9/3/2024	9/3/2024	Abrasion of neck, initial encounter; Asphyxiation by hanging, undetermined	death	MC	8/28/2024	9/5/2024	10/1/2024	Open
8/4/2024	Permann, Sue	5/8/1953	123456789	8/9/2024	ADM	Kaiser	SS	9/5/2024	9/5/2024	Subdural hematoma (HCC); Closed traumatic fracture of	8/7 (Sign Out): ISS	MC	8/29/2024	N/A	N/A	Closed
8/9/2024	Sea, Wade N	10/12/2006	123456789	8/13/2024	Conf Adm		AB	9/9/2024	9/9/2024	Traumatic right-sided intracerebral hemorrhage with loss	8/13 (Sign Out): ISS	MC	8/31/2024	N/A	N/A	Closed
8/11/2024	Break, Anita	3/3/1959	123456789	8/15/2024	Conf Adm	Sutter	AB	9/11/24	9/11/2024	Fall, Closed fracture of transverse process of cervical vertebra, initial encounter (HCC); End stage liver disease (HCC); Hospice	8/12 (Sign Out): pending death/DC on hospice (was on hospice PTA and then was cancelled?)	MC	9/24/2024	9/26/2024	N/A	Closed

Key

IFT out HLOC
Pediatric
Pedi HLOC
NSA
Death
Deleted from Reg
Non-submitted

PI DICTIONARY

 CODE/AUDIT FILTER Definition	Benchmark Goal % (if applicable) Green = ACS Red = TQIP (Fall 2023 benchmark averages) Purple = SRMH Report out forum and cadence	Required Level of review Who can close the event?	Essential information (if applicable) (what must be in the review based on the filter - ask Schmidt what he thinks is important to the filter or guideline etc.) Hospital day number format: HD 1 MM/DD/YYYY	Standard verbiage (copy and pasted info into DI) Appropriate per policy/guideline/SOP Inappropriate/OFI/review details	OFI OFI Action Plan Include timeframe in OFI action plan Event Resolution Justification Future similar patients are less likely to experience this event because....(keep in mind when answering questions about event resolution to ensure it will not happen again or will be decreased over time. proof that we did it and proof that it worked.)
Unplanned admission to ICU See NTDS algorithm	$\leq 3\%$ PIPS Multidisciplinary Operations Meeting Quarterly	P2 TMD	• NTDS algorithm application (ex. How does it meet criteria) • Events leading to complication • Reason for admission to ICU • What was the level of care/hospital location prior to the unplanned ICU admission • Was potential OFI identified, if so please specify	P1 Review: [date] (P1 RN) - Case reviewed. **DETAILS** . Case referred to P2 for review. For Cases Referred to P2 review: [date] (P2) - Case reviewed. **DETAILS** . Care acceptable with acceptable unplanned admission to ICU per provider clinical judgement. [date] (P2) - Case reviewed. **DETAILS** . Care unacceptable with unacceptable unplanned admission to ICU per provider clinical judgement. [date] (P2) - Case reviewed. **DETAILS** . Care unacceptable. Referred to P3 for further review.	OFI - case specific. OFI Action Plan- case specific Action Plan (DI dropdown) - Track and trend for further reporting. Event Resolution Justification - Tracking on Trauma Dashboard, PI Tab under Filter count.

COMMUNICATING EFFECTIVENESS OF THE PIPS PLAN

SRMH Trauma Rolling QI / Guideline Compliance Scorecard 2024														
INDICATOR	Goal	ACS Standard	Guideline	TQIP Benchmark	PI RN assigned to data	PIPS Report out frequency	2023 Q1	2023 Q2	2023 Q3	2023 Q4	YTD CY2023	2024 Q1	2024 Q2	Report used
≥65 with hip fracture to OR <24hrs	80%				Holly	Feb/May/Aug/Nov	81.3% 35/43	81.3% 35/43	80% 28/35	87.4% 22/25	82.2% 120/146	91% 32/25		Tableau
MRI available within 2 hours of request	80%	Yes	3-05		Holly	Feb/May/Aug/Nov	67% 8/12	100% 1/1	100% 7/7	100% 6/6	85% 22/26	100% 7/7		Tableau
PT consult order placed within 24hrs of admission * started with March 2023 admissions	80%	5.27	9-10		Holly (slides only)	March/June/Sept/Dec	87.5%*	87.37%	86.03% 357/415	90.21% 350/388	87.78% 324/37	85.71% 324/37	78.36% 297/379	ACUTE_CARE_REHAB
OT consult order placed within 24hrs of admission	80%	5.27			Holly (slides only)	March/June/Sept/Dec	84.62%*	93.83%	86.89% 318/366	88.95% 314/353	88.57% 281/33	85.15% 281/33	77.39% 267/345	ACUTE_CARE_REHAB
PT services seeing the patient within 48hrs of order	90%	5.27	9-10		Holly (slides only)	March/June/Sept/Dec	96.25%*	98.44%	98.80% 410/415	94.85% 368/388	97.09% 368/37	97.35% 368/37	97.35% 367/377	ACUTE_CARE_REHAB
OT services seeing the patient within 48hrs of order	90%	5.27			Holly (slides only)	March/June/Sept/Dec	95.24%*	98.24%	99.45% 364/366	93.77% 331/353	96.95% 314/33	95.15% 314/33	97.94% 333/340	ACUTE_CARE_REHAB
Speech services seeing the patient within 48hrs of order	90%	5.27			Holly (slides only)	March/June/Sept/Dec	100%*	95.00%	96.61% 57/59	94.55% 52/55	96.54% 56/58	96.55% 56/58	91.11% 41/45	ACUTE_CARE_REHAB
Patients identified as having alcohol misuse with intervention documented	80%	5.31			Holly	March/June/Sept/Dec	89.28% 75/84	88.35% 91/103	83.9% 89/106	86.54% 90/104	87.02% 83/91	91.21% 83/91	93.82% 168/179	SBIRT_PTSD
Tracheostomy placement within 8 days of intubation Denominator: Only patients who had tracheostomy performed	80%	No	4-01	Yes	Laura	April/July/Oct/Jan	63% 5/8	50% 2/4	0.00% 0/2	50% 1/2	50% 8/16	33% 1/3	40% 2/5	VENTILATION_REPORT or VENTILATION_REPORT, then PROCEDURE
ICU admits who met Palliative Care Triggers with a Palliative Care Consult while in the ICU within 3 days	90%	5.6	9-16,9-17	No	Meaghan	April/July/Oct/Jan	N/A	N/A	N/A	3%	N/A	6%	16%	MC Palliative, Query: Admitted_Patient_ICU
Rib fracture patients who were admitted to the floor with unplanned ICU admission/death related to rib fracture complications (denominator = all rib fx patients)	<5%		5-08		N/A	April/July/Oct/Jan	N/A	N/A	0.81% 1/123	.72% 1/138	0.77% 0/76	0.00% 0/76	0.92% 1/109	MARG_NTDB_COMP, Query: DX_AIS_RIB_FX, use Query above to find RIB FX count
Intubated patients with enteral feeds started within 48hrs of intubation	80%	TQIP TBI guidelines	4-01	No	Holly (slides only)	April/July/Oct/Jan	N/A	N/A	80.00% 12/15	64.70% 11/17	N/A	50.00% 12/24	42.11% 8/19	PROCEDURE

COMMUNICATING EFFECTIVENESS OF THE PIPS PLAN

	A	B	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
	PI Flagged Dashboard	Benchmark Goal (PI)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total TYD	Total YTD %	TQIP Total (%)	Total 2024 Count	Total OFI	Total No OFI	Dashboard owners	Report Used	Goals
1	PI Flagged Dashboard																						
2	Total Trauma Patients		304	292	254	289	351	354							1844	N/A	N/A	3609			Gabi	Laura_PI_Dash	
3	Total Trauma Admissions		183	162	147	143	194	191							1020	N/A	N/A	1977			Gabi	Laura_PI_Dash	
4	Total NTDS Submitted (Y)		175	160	141	140	200	205									N/A					Laura_PI_Dash	
5	Approximate TQIP submitted charts (N)		84	76.8	67.68	67.2	96	98.4							490	N/A	N/A					N/A	
6	# of ISS >15		26	19	17	18	35	20							135	N/A	N/A	337			Gabi	Laura_PI_Dash	
7	% of ISS >15 reviewed in primary review		100%	100%	100%	100%	100%	100%							N/A		N/A	100%			Gabi	Laura_PI_Dash	100%
8	# of NSA		89	96	87	89	103	96							560	N/A	N/A	742	???	???	Gabi	Laura_PI_Dash	
9	% of NSA reviewed in primary review		100%	100%	100%	100%	100%								N/A		N/A	100%			Gabi	Laura_PI_Dash	100%
10	# of NSA with OFI 7.8: ISS >9, no trauma/surgical consult, or with OFI, Nelson score ≤3		25	31	27	32	39								154	N/A	N/A	226%			Gabi	Laura_PI_Dash	
11	% of NSA with above criteria above reviewed in secondary review		100%	100%	100%	100%	100%								N/A		N/A	87%			Gabi	Laura_PI_Dash	100%
12	# of deaths		15	8	3	12	11	5							54	N/A	N/A	114			Gabi	Laura_PI_Dash	
13	% of deaths reviewed in primary review		100%	100%	100%	100%	100%	100%							N/A		N/A	100%			Gabi	Laura_PI_Dash	100%
14	# of pediatric admitted cases		1	1	2	0	0	5							9	N/A	N/A	N/A			Gabi	Laura_PI_Dash	
15	% of pediatric admitted cases reviewed in primary review		100%	100%	100%	100%	100%	100%							N/A		N/A	N/A			Gabi	Laura_PI_Dash	100%
16	# LOS >9 days		14	6	14	18	26	17							95	N/A	N/A	277			Gabi	Laura_PI_Dash	
17	% LOS >9 days reviewed in primary review		100%	100%	100%	100%	100%	100%							N/A		N/A	100%			Gabi	Laura_PI_Dash	100%
18	# of transfer outs to HLOC (adult/peds) (denominator = all patients) we	≤5%	11	7	5	6	10	11							50	3%	N/A	75			Gabi	Laura_PI_Dash	
19	% of transfer outs to HLOC reviewed in primary review		100%	100%	100%	100%	100%	100%							N/A		N/A	100%			Gabi	Laura_PI_Dash	100%

PHYSICIAN FEEDBACK (INTERNALLY)

Physician Feedback Form

Trauma Services

Providence

Santa Rosa

Memorial Hospital

In efforts to improve the quality of care for our trauma patients, we conduct rigorous chart reviews for cases identified as having opportunities for improvement. Please review the following case and feedback provided below. This feedback is intended to offer you an opportunity to enhance or maintain the care we deliver.

Date:		MRN:		DOS:	9/2/2024
Patient:					
Opportunity for Improvement Identified: DVT US not ordered on admission.					
Summary of events: 67 y.o. female with a history of chronic back pain, breast cancer, factor 5 deficiency and asthma who presented					
Opportunity for Improvement: This case was taken through the PI process and determined to have OFI in secondary review. see note/email to be sent as an educational opportunity that an ultrasound was not ordered and the guideline was not followed. Filter to remain open until letter is sent.					

Feedback is provided to each member of the patient care team and is intended to provide staff objective data collected for personal performance improvement. This document also serves as a "loop closure" for issues identified with each patient's trauma chart as identified above.

If you have any questions about this document or its content, please contact our department listed below.

Sincerely,

Santa Rosa Memorial Hospital Trauma Team
1165 Montgomery Drive
Santa Rosa, CA 95405
O: 707-547-4608
F: 707-547-4609

Your message

To: Howell, Patrice L
Subject: #Secure# Transfer in Follow Up April-June
Sent: Wednesday, July 31, 2024 1:49:35 PM (UTC-08:00) Pacific Time (US & Canada)

was read on Tuesday, August 20, 2024 1:45:17 PM (UTC-08:00) Pacific Time (US & Canada).

[Reply](#) [Forward](#)

TRANSFER OUT FOLLOW UP COMMUNICATION

Transfer to HLOC Follow Up	
Transfer out with OFI	
Patient Name: [REDACTED] Age: [REDACTED] MRN: [REDACTED] Admit Date: [REDACTED] Brief Summary/MOI at SRMH: 78 M BIBA s/p face first fall from bicycle. +head strike. + LOC. -antiplatelet/anticoagulant. +helmet. Initial SBP 70s; 1L NS given. GCS 14. Code Trauma downgraded to trauma alert. Pt found to have extensive complex facial fractures requiring Plastics consultation and potential operative mgmt. Also comminuted acute R humeral neck fx. TS K. White consulted recommending tx to UC Davis for extensive <u>maxface</u> fractures and Plastics treatment. HLOC facility: UC Davis PI RN: KM Status: Open	Physicians on record: [REDACTED] OFI: Plastics coverage not available on this date. Out of protocol with ACS Standard 4.21 Surgical Specialists Availability. HLOC treatment: Pt admitted by Trauma. ENT, Ortho, <u>Optho</u> consulted. No acute surgical intervention performed. Pt <u>DC'ed</u> to SNF HD 9.
Transfer out without OFI	
None	

TRANSFER IN FOLLOW UP

- TPM sends an email at the end of the month, and it's the responsibility of the OSF to request more details
- PIRN can also use a referring facility issue filter and follow up with the OSF
- If a OSF contacts us for a DC summary, we put that information into DI (Transfer in F/U filter) for loop closure. We also save the email to the patients e file showing that we sent the follow up.

Record Edit Browse

Event 10056 Transfer In F/U Copy Paste

Occurrence Date 10/09/2025 [2] Setting/Location [] Service/Staff []

Agency Related [] Agency Feedback []

Identified Date 10/09/2025 [2] Reporting Source Email Request from TPM

Level [] Acknowledged/Review Status 2 Reviewed by Individual [] Source of Information []

Meeting Where Determination Made []

Presenter [] Specify []

Factors [] [] [] []

Determination 3 Event/Mortality without an Opportunity for Improvement Acceptability / Not Applicable

System Related [] Provider/Practitioner []

Patient [] Risk-Adjusted OFI []

Comments [10/9](MC): DC summary sent to OSF TPM per her request.

Corrective Action

	Status	Date
20 Track and Trend for Further Reporting	4 Closed	10/09/2025 [2]
[] [] [] []	[] [] [] []	[] [] [] []
[] [] [] []	[] [] [] []	[] [] [] []
[] [] [] []	[] [] [] []	[] [] [] []

Action Details []

Loop Closure Status 9 Closed - Resolved Loop Closure Date 10/09/2025 [2] Add Reminder to Calendar

✓ Check || ✓ OK || ✗ Cancel

MORTALITY REPORT OUT

CONSENT CLOSURE					
Patient	Admit Date	MR#	Physicians on Record	Determination/ Loop Closure	Status
Mortality Without OFI					
[REDACTED]	4/25/24	2[REDACTED]	Doll, James; Russell, David; Wong, Albert; Lowry, Robert; Burges, Molly	Mortality without OFI	Closed
[REDACTED]	7/20/24	2[REDACTED]	Ferrari, Omar; Schmidt, Brian; Germain, Rasha; Echipare, Lorigail; Sharma, Sharad; Tantarelli, Jenifer	Mortality without OFI	Closed
[REDACTED]	7/21/24	2[REDACTED]	Ferrari, Omar; Consiglieri, Giac; Russell, David; Katan, Ognjen	Mortality without OFI	Closed
[REDACTED]	7/15/24	2[REDACTED]	Thomas, Matthew; Forman, Dana; Nasri, Hachem	Mortality without OFI	Closed
[REDACTED]	7/10/24	2[REDACTED]	Schmidt, Brian; Consiglieri, Giac; Lowry, Nathan	Mortality without OFI	Closed
[REDACTED]	7/28/24	2[REDACTED]	Roberts (ED), Hublikar (Hospitalist)	Mortality without OFI	Closed
Beer, Walter	7/1/24	2[REDACTED]	MD R White (Trauma), MD Agil (Emergency), MD Santos (Hospitalist)	Mortality without OFI	Closed

QUATERNARY REVIEW



E-FILE

-  [REDACTED] DOB 10-4-1988 (002)fol... 
-  RE_Ortho Question.pdf 
-  Reach Response GARDEA 
-  RN Kudos Blood Documentation 
-  You Rock! Thank you - From Trauma and ... 
-  You Rock! Thank you - From Trauma and ... 

- We add everything to the E-File, even if you think its insignificant we add it.

-  Re Under Triage Added - Possible ACS ch... 
-  [REDACTED] loop closure email 
-  [REDACTED] Peer Timeline 
-  [REDACTED] IRR Copy 
-  [REDACTED] P2 Timeline 
-  [REDACTED] IRR 
-  [REDACTED] o 
-  [REDACTED] HRP 
-  [REDACTED] 463 Wellsky 
-  Trauma QI OR Audit Form - Liralopez, He... 

REGISTRY

P1 Review.

[6/25] (MC) - Case reviewed.

Readmission 5/23, Original Admission 5/20-5/22

Patient was readmitted for PNA. <24hrs after initial DC. Given a duoneb in the ED and started on Azithromycin. Admitted by the hospitalist (Aksu) for PNA. Case management saw the patient and the family requested that he continue his care with Sutter Home Health. DC home on HD 4.

**of note the patient was then readmitted to Sutter Santa Rosa 6/1, and the wife stated that she could no longer take care of him. Social admit and was DC to SNF for short-term rehabilitation.. Case referred to P2 for review.

Should this patient have been started on antibiotics during his initial visit due to his High risk for pneumonia given recent rib fractures and immunocompromised status

[7/18] (P2) - Care appropriate with acceptable NSA per provider clinical judgement. Dr. K White would like Dr. Downing to review.

7/18 (email): Email sent to Dr. Downing, Hospitalist Liaison for review of patient possible PNA and ABX.

8/1 (email): email sent to Dr. Downing to review case, response "There was no evidence of pneumonia on the first admission (no cough, SOB, fever, etc). There were some nonspecific patchy opacities on the CXR but this in isolation would not warrant antibiotics.

Given the presentation i would favor atelectasis. The patient returned with SOB and cough on the readmission and was treated for pneumonia, however, his sx were still mild. He was treated for pneumonia based on these new sx and the fact that he was high risk for infection in the setting of immunosuppression..."

[8/5](P2): case placed back on 8/8 P2 agenda to report out Hospitalist review.

[8/8]P2): Dr. Schmidt and Dr. K White okay with response from Hospitalist. Filter Closed.

NSA

- PI closures
 - Case closed in PI. NSA with ISS<9, surgical consult, and nelson score >4. No need for TMD review.
- For Cases Referred to P2 review:
 - Consent closure: All NSA cases were thoroughly reviewed and discussed through primary review and secondary review and deemed care appropriate. Case closed.

Transfers to HLOC

- P2
 - All higher level of care transfer cases were thoroughly reviewed through the PIPS process. Placed on Secondary Agenda for transparency.
- Peer
 - All consent closure cases were thoroughly reviewed and discussed through primary and secondary review and deemed care appropriate. Cases referred to Peer Review as Consent Closure.

Death/DC to Hospice

- P2
 - Case reviewed. Case determined mortality without OFI per TMD. Referred to peer review as consent closure.
- Peer
 - All consent closure cases were thoroughly reviewed and discussed through primary and secondary review and deemed care appropriate. Filter closed.

REGISTRY

Meeting Name	2	Meeting Date	07/18/2024	Load Default	Set Default
Review Indication					

Attendee Disciplines	<table><tr><td>☐</td><td></td><td>☐</td><td></td><td>☐</td><td></td><td>☐</td><td></td></tr><tr><td>☐</td><td></td><td>☐</td><td></td><td>☐</td><td></td><td>☐</td><td></td></tr><tr><td>☐</td><td></td><td>☐</td><td></td><td>☐</td><td></td><td>☐</td><td></td></tr><tr><td>☐</td><td></td><td>☐</td><td></td><td>☐</td><td></td><td>☐</td><td></td></tr></table>	☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐	
☐		☐		☐		☐																											
☐		☐		☐		☐																											
☐		☐		☐		☐																											
☐		☐		☐		☐																											
Attendees	Dr. Keith White Dr. Brian Schmidt Gabi Gannon, RN Kaylee Meier, RN Meaghan Carroll, RN																																
Discussion	Reason for Secondary Review: 1.Non-Surgical Admission (05/20/2024) Discussion: Dr. K White noted that this patient fell and had multiple rib fractures and Dr. Singer had the patient admitted to medicine. Dr. K White noted that we know this patient well and he has so many medical comorbidities that he completely agreed with Dr. Singer to admit the patient to medicine and having us follow for pain control. 2.Readmission (05/23/2024) Discussion: Dr. K White noted that the patient came back in with pneumonia and the wife was unable to take care of him. Dr. K White noted that we were familiar with this patient and his concern would have been letting him go back home with home health as opposed to being DC'ed to a SNF (although there was direction from the patient's wife as well). Dr. K White stated he has reservations with the readmission because home may not have been the most appropriate place for this patient to be DC'ed to. Meaghan asked if the patient should have been started on antibiotics during his initial stay because he came back with pneumonia. Meaghan noted that the images showed pleural effusion and there was a white count, but they couldn't figure it out. Dr. K White noted that prior to discharge the CXR showed patchy left lower opacities. On the readmission, it was noted he had new lung opacities compared to prior and was leukopenic. Dr. K White stated that he is surprised the patient was discharged with the leukopenia which is just as concerning as leukocytosis; they should have repeated the CBC because he had a drop in hemoglobin too and that was ignored. Dr. K White requested this to be sent to the Hospitalists (Dr. Downing) for review as possible pneumonia. Case brought back to the 8/8 P2 meeting where the Hospitalist response was read and Dr. Schmidt and Dr. K White agreed with her response.																																
Template Letter	 Generate																																

PEER MINUTE'S STANDARD LANGUAGE

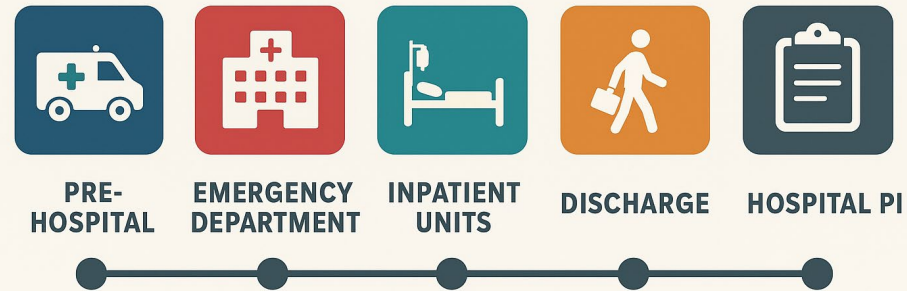
- **Event with OFI**

- **Determination:** The TMD and members of the committee deemed this case as event with identified opportunity for improvement. OFI =... The committee agreed that care was acceptable with reservation.
- **Action:** Education in the form of case review was provided to committee members within the Peer meeting. The filter is closed. The issue will continue to be tracked and trended via the Trauma Dashboard for opportunities to protect and benefit future trauma patients to mitigate or prevent similar or future events.
- **Determination:** The TMD and members of the committee agreed that care was not acceptable.
- **Action:** The issue is currently being addressed for the protection and benefit of future trauma patients to mitigate or prevent similar or future events through policy update and review and improved provider communication. The filter/case will be open pending the action items.

- **Event with no OFI**

- **Determination:** The TMD and the members of the committee agreed that care was appropriate given all factors involved. There were no opportunities for improvement identified. Care was acceptable.
- **Action:** Education in the form of case review was provided to committee members within the Peer meeting. The filter is closed. The issue will continue to be tracked and trended via the Trauma Dashboard for opportunities to protect and benefit future trauma patients to mitigate or prevent similar or future events.

TIMELINE



Name: [REDACTED] Age: 20 DOB: [REDACTED] DOS: 02/21/2024 MR: [REDACTED]

PI RN Reviewing Case: Kaylee Meier, RN

P2 Surgeon Reviewer: Dr. Schmidt

Physicians of record: Colina, K. White, Nguyen, Germain, Axelrad, Wegner

Therapies Consulted: Physical Therapy, Occupational Therapy (2/23/2024)

Filter(s) Identified for Peer ReviewReason for review:

1. Interesting Case Review - (02/26/2024)

DetailsInjuries Identified:

1. Mildly displaced R posterior medial first and second rib fractures
2. Small R PTX
3. Acute mildly displaced fractures of the left superior pubic ramus, left sacroiliac, and adjacent left iliac bone
4. Nondisplaced fracture of L ischial tuberosity,
5. Left lower lobe groundglass and consolidative opacities (cannot exclude pulmonary contusions),
6. Stage 3 DAI with petechial hemorrhage in basal ganglia and anterior corpus callosum
7. Scattered SAH
8. Left lateral orbital wall and zygomatic arch fractures
9. Left tripod fracture with left pterygoid process fracture

PMH: NoneProcedures:

1. External Ventricular Drain Placement
2. Open Tracheostomy
3. PEG placement

Prehospital/SRMH ED Information:	SRMH Transfer to HLOC Information:
Mode of Arrival: Ground Ambulance Total Scene Time: 10 min Transport Time: 12 min Trauma Activation Level: Full ED Arrival Time: 02/21/2024 09:25 ED DC Time to Unit: 1 hour, 55 minutes ED LOS: 1:55 Admitting Unit: Intensive Care Unit	Transfer out to HLOC Arrival to Decision to Transfer Decision to ED Discharge ED LOS ED DC Time to Unit
SRMH OR Information:	Referring Hospital Transfer to SRMH Info:
Time to OR Cut time	IFT IN from N/A IFT LOS Arrival to Decision to Transfer Decision to ED Discharge ED to ED time

Trauma Committee Care Review

Discharge date: 03/11/2024		LOS: 19 days	
Discharge to: Kentfield LTACH		Expired: N/A	
Initial ED Vitals:			
BP: 173/96	HR: 151	RR: 27	O2 Sat: 100% on BVM
Temp: unk	Pain: unk	GCS: 3	
Trauma Scores:			
Shock Index (HR/SEP): 0.87		ISS: 45	TRISS: 0.14

Narrative

20 F s/p high rate of speed MVC into tree. [REDACTED] restraint
status. Prolonged extrication d/t L leg trapped. [REDACTED] blood
and sputum in upper airway, suctioned by EMTs. [REDACTED] EMS
unable to place OPA d/t trismus; BVM ventilation initiated. [REDACTED] PTA.
Tachycardic in the ED (150s). Noted to have [REDACTED] and
posturing. Intubated for airway protection. [REDACTED] and rib
fractures, small R PTX, acute mildly displaced [REDACTED] left
iliac bone, nondisplaced fracture of L ischium [REDACTED] cannot
exclude pulmonary contusions), DAI with [REDACTED]attered
SAH, left lateral orbital wall and zygomatic [REDACTED]ure.
Hypertonic NS 3%, Mannitol, TXA 1g, and Keppra 1g given. NSG (Consiglieri; backup with immediate response,
Germain in OR), Ortho (Axelrad), and Intensivist (Nguyen) consult. Per TS, "nonurgent" Plastics consult pending clinical
[REDACTED] ED. [REDACTED] ED. NSG [REDACTED] ICU. TS (K. White).

H	tachycardic 150s, tachypneic 40s,
a	interal feeds initiated HD 2. HD 3
H	4). DDAVP given d/t increased
u	for seizure activity; aborted trial.
H	

HD 3 she was found to have spontaneous eye opening, intact cough/gag reflex, posturing to UE bilateral no movement to LE

HD 4 subq Heparin TID started overnight; resolved after 23% times; Cardene and Propofol is	(26)
	multiple

HD 5 ICPs in 20s; Propofol in 20s; Corneal reflexes noted.

HD 6 tongue edema noted. Benadryl and Methylprednisolone given. ICP peaked to 26; IVP Versed and Dilaudid given.

HD 7 Palliative consult [REDACTED] the 30s
overnight (HTS bolus given [REDACTED])

HD 8, ICP 9-11 remained in Pentobarbital coma.

11/2/20, discharged to Kennedy LTACU.

Primary Review Timeline - 02/22/2024

2/21 (HD 2)

0916: Cod

0925: Pt a

BP 173/96

0926: 20 E

0930: Pt i

0935: Hyp

0942: XR

0943: NS

0944: Kep

0945: XR

0947: TX

0948: CT

pneumoth

as well as

likely rela

to the frac

lower lobe

CT Head:

Scattered

sinuses. V

CT C Spis

CT Max/f

left cheek and in the right conjunctival sac.

rad).

all right
adjacent left iliac bone
fluid in the pelvis is

ght middle and right
cannot be excluded.

orpus callosum.
acts in the paranasal

seen.

foreign bodies in the

Determination – Case referred to Secondary Review for Complication – Macroglossia/Pressure Wounds on Tongue



Secondary Review - 03/21/2024

Attendees: Holly Love, Dr. Schmidt, Dr. K White, Kaylee Meier, Laura Pajari, Gabi Gannon, Erin Olson, Meaghan Carroll, Brooke Brand, Michael Feranchak

Meeting Minutes:

Complication - Macroglossia/Pressure Wounds on Tongue

Per Dr. [REDACTED] stomy
sooner [REDACTED] d Dr. R.
White [REDACTED] ut more so
the res [REDACTED] airway, it
would [REDACTED] eer if time
permit [REDACTED] as
transfe [REDACTED]

Determination- Case referred to Peer Review as “Interesting Case.”

Other Review – 3/25/2024

Attendees:

Meaghan Carroll RN, Dr. Stefan Zechow (ENT)

Meeting Minutes:

Phone call with PI RN Meaghan Carroll and Dr. Stefan Zechow (ENT) who performed the open trach on pt.

Phone call with Dr. Zechow at 1821 on 3/25/2024

He stated that [REDACTED] ue had grown so large and
protruding out [REDACTED] the tongue. She essentially
had macrogloss [REDACTED] ck was placed which helped
start to heal. H [REDACTED] aryngologist use this steroid
for any type of [REDACTED]

When asked ab [REDACTED] issue was the macroglossia
likely from the [REDACTED] e. It's not uncommon for
nursing or MD [REDACTED] Oral Care to look under the
tongue for any [REDACTED] tubated. Before she left her
tongue was loc [REDACTED] cosal injury even down into
the muscle heal well. In the end, the brain stem injury is likely the cause of the macroglossia as all other factors were
removed. I.e ET Tube, and Pressure off the tongue.

Peer Review Meeting - 04/02/2024

KEY TAKE AWAYS



Be hypervigilant about dates and times of when conversations happened.



Utilize a dictionary with standard language



Standardize your minutes language



Save everything



Not everything needs a full corrective action plan

THANK YOU

- Meaghan.Carroll@providence.org

