





- Axiom
 - Outcomes are a marker of:
 - Care delivered (Care Issue!)
 - Documentation provided (Documentation Issue)
 - Data extraction (Data Extraction Issue)
 - PIPS



- OWN IT!
- "You cannot fix a problem you refuse to acknowledge."
 - -Margaret Heffernan- author, professor, businesswoman



- Each TQIP report is shared with stakeholders
 - Trauma Surgeons
 - Orthopedics
 - Neurosurgery
 - Emergency Medicine
 - Anesthesia
 - Radiology
 - · Geriatric Providers
 - Nursing
 - Administration
- TQIP (portions) presented at monthly TOPSC to highlight issues
- TQIP reports presented biannually at Trauma Conference and to hospital executives
- TQIP benchmarking incorporated in Peer Review
- Plans developed and again shared with stakeholders-everyone has to provide 2 possible ways to get better



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- Where are we? (Current Report)
- Where were we? (Previous 2 Reports)
- Where are we going? (plan for the future)



Figure 2: Risk-Adjusted Mortality by Cohort

2024 Spring TQIP MORTALITY

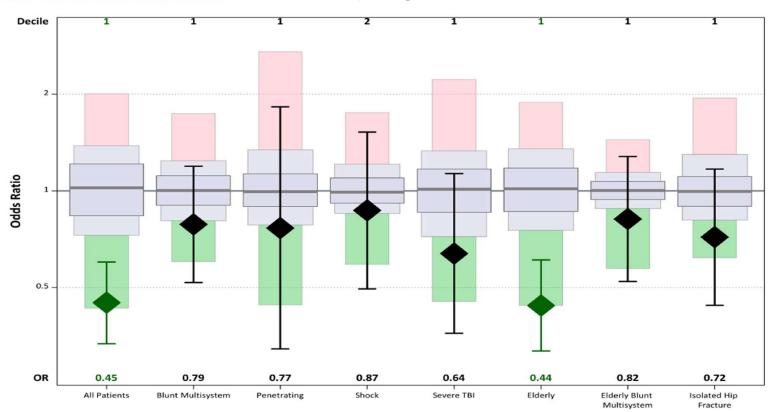
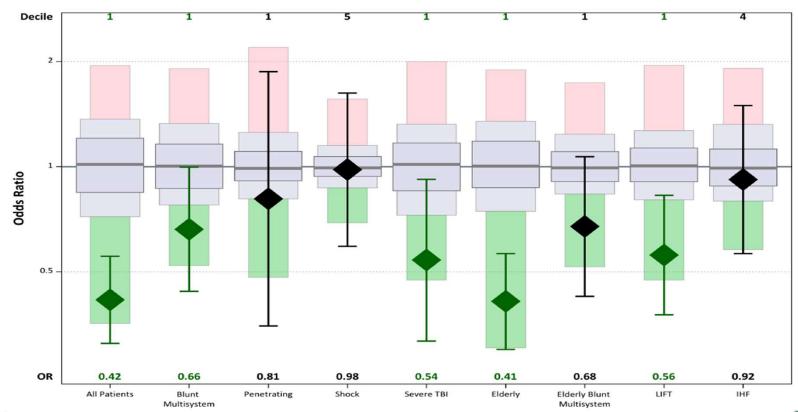


Figure 2: Risk-Adjusted Mortality by Cohort

2024 Fall TQIP MORTALITY





0.81

Penetrating

0.66

Blunt

Multisystem

0.98

Shock



0.54

Severe TBI

0.41

Elderly

0.68

Elderly Blunt

Multisystem

0.56

LIFT

0.92

IHF

Focus on the opportunities



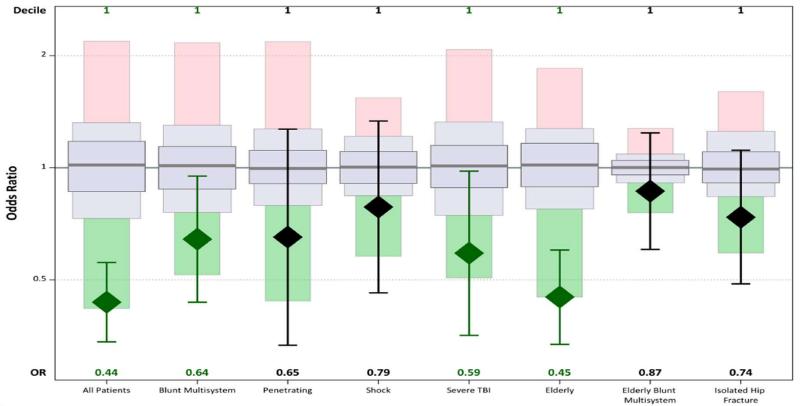
OR

0.42

All Patients

2024 Spring TQIP EVENTS (Complications)

Figure 4: Risk-Adjusted Major Hospital Events Including Death by Cohort

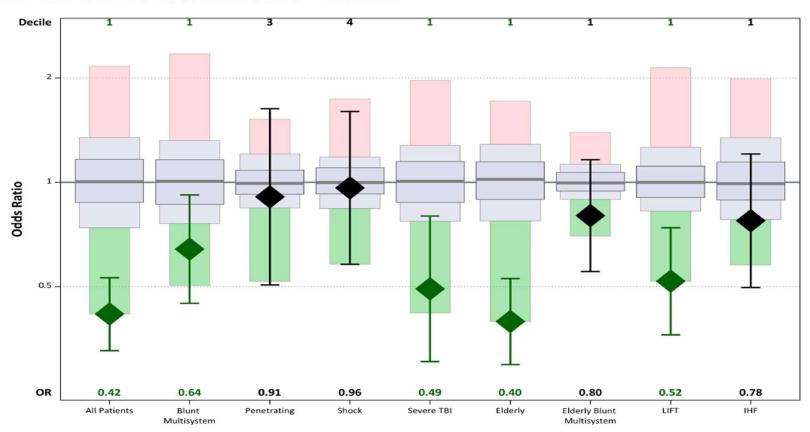




2024 Fall TQIP EVENTS (Complications)

Figure 4: Risk-Adjusted Major Hospital Events Including Death by Cohort

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2024 Fall TQIP EVENTS (Complications)

Figure 4: Risk-Adjusted Major Hospital Events Including Death by Cohort

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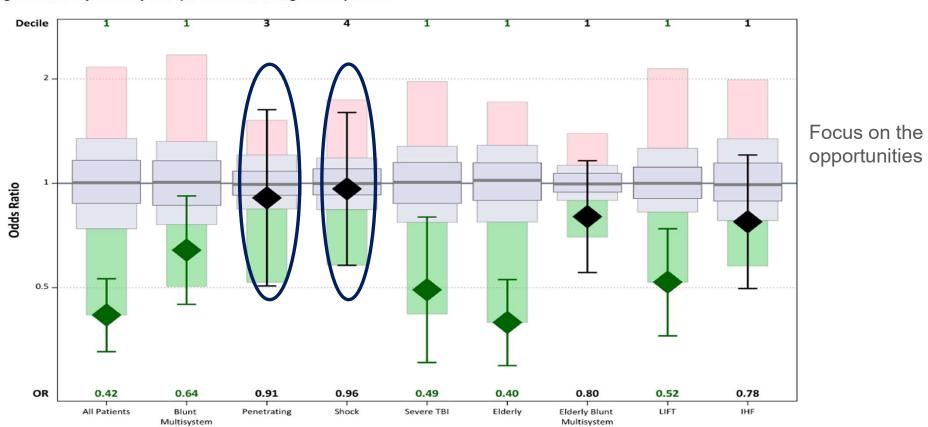


Table 12: Hospital Events by Cohort*

Events=Complications

| | | Patients | Null V | alues | Organ Dysfunction | | | | | | |
|---------------------------|---------------|----------|-----------------|-------------|----------------------------------|---|--------------------------------------|-------------------|---------------------------------|--|--|
| Cohort | Group | N | Unknown (%)¹ | None (%) | Acute Kidney Injury (%) | Acute Respiratory Distress Syndrome (%) | Cardiac Arrest with CPR (%) | Stroke/CVA (%) | Myocardial Infarction (%) | | |
| All Patients | All Hospitals | 416,038 | 0.0 | 88.5 | 0.8 | 0.4 | 1.3 | 0.5 | 0.1 | | |
| | Your Hospital | 1,078 | 0.0 | 91.8 | 0.6 | 0.0 | 1.6 | 0.1 | 0.4 | | |
| Blunt Multisystem | All Hospitals | 60,844 | 0.0 | 75.9 | 2.0 | 1.3 | 3.4 | 1.2 | 0.2 | | |
| | Your Hospital | 172 | 0.0 | 82.6 | 2.9 | 0.0 | 5.8 | 0.6 | 1.2 | | |
| Penetrating | All Hospitals | 17,294 | 0.1 | 80.7 | 1.8 | 0.7 | 4.4 | 0.5 | 0.1 | | |
| | Your Hospital | 18 | 0.0 | 88.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Shock | All Hospitals | 16,983 | 0.0 | 71.5 | 3.3 | 1.6 | 7.3 | 1.2 | 0.2 | | |
| | Your Hospital | 23 | 0.0 | 73.9 | 0.0 | 0.0 | 8.7 | 0.0 | 4.3 | | |
| Severe TBI | All Hospitals | 27,803 | 0.1 | 72.6 | 1.7 | 1.6 | 5.5 | 1.6 | 0.1 | | |
| | Your Hospital | 62 | 0.0 | 83.9 | 1.6 | 0.0 | 6.5 | 0.0 | 1.6 | | |
| Elderly | All Hospitals | 181,034 | 0.0 | 88.3 | 0.7 | 0.2 | 1.2 | 0.5 | 0.2 | | |
| | Your Hospital | 559 | 0.0 | 91.1 | 0.2 | 0.0 | 1.3 | 0.2 | 0.5 | | |
| Elderly Blunt Multisystem | All Hospitals | 18,734 | 0.0 | 75.6 | 2.3 | 0.7 | 3.8 | 1.3 | 0.4 | | |
| | Your Hospital | 74 | 0.0 | 82.4 | 1.4 | 0.0 | 5.4 | 1.4 | 2.7 | | |
| LIFT | All Hospitals | 69,543 | 0.0 | 90.0 | 0.6 | 0.1 | 0.7 | 0.4 | 0.3 | | |
| | Your Hospital | 334 | 0.0 | 93.4 | 0.3 | 0.0 | 1.5 | 0.0 | 0.0 | | |
| IHF | All Hospitals | 71,283 | 0.0 | 92.6 | 0.4 | 0.0 | 0.5 | 0.4 | 0.2 | | |
| | Your Hospital | 196 | 0.0 | 94.9 | 0.5 | 0.0 | 2.0 | 0.0 | 0.0 | | |

^{*} In addition to centers excluded from all risk-adjusted models, centers excluded from risk-adjusted hospital events models are excluded from the All Hospitals rows
'Unknown (%) is calculated as the total number of unknown hospital events among all possible hospital events for patients included in this table



Table 12: Hospital Events by Cohort* (continued)

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Events=Complications

| | | Patients | | | | Asso | rted | | | |
|----------------------------------|--------------------------|-----------------|--------------------------|--|--------------------------------|------------------|------------------------------|--------------------------------|------------------------------------|---|
| Cohort | Group | N | Pressure Ulcer (%) | Alcohol Withdrawal Syndrome (%) | Deep Vein Thrombosis (%) | Delirium (%) | Pulmonary Embolism (%) | Unplanned Intubation (%) | Unplanned Visit to OR (%) | Unplanned Admission to ICU (%) |
| All Patients | All Hospitals | 416,038 | 0.9 | 1.0 | 1.1 | 2.5 | 0.6 | 2.0 | 1.9 | 3.0 |
| | Your Hospital | 1,078 | 0.5 | 0.3 | 0.6 | 0.0 | 0.5 | 1.2 | 1.0 | 4.5 |
| Blunt Multisystem | All Hospitals | 60,844 | 2.4 | 1.2 | 2.8 | 5.1 | 1.6 | 4.3 | 4.4 | 4.5 |
| | Your Hospital | 172 | 1.2 | 0.0 | 0.6 | 0.0 | 0.6 | 1.7 | 2.3 | 5.2 |
| Penetrating | All Hospitals | 17,294 | 1.2 | 0.8 | 2.5 | 1.9 | 1.4 | 1.9 | 6.5 | 3.5 |
| | Your Hospital | 18 | 0.0 | 0.0 | 5.6 | 0.0 | 5.6 | 5.6 | 5.6 | 0.0 |
| Shock | All Hospitals | 16,983 | 2.9 | 1.2 | 3.7 | 3.7 | 1.7 | 4.1 | 6.2 | 3.8 |
| | Your Hospital | 23 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 0.0 | 4.3 | 4.3 |
| Severe TBI | All Hospitals | 27,803 | 2.9 | 1.4 | 3.3 | 4.6 | 1.3 | 3.3 | 4.3 | 3.1 |
| | Your Hospital | 62 | 1.6 | 0.0 | 1.6 | 0.0 | 1.6 | 0.0 | 0.0 | 3.2 |
| Elderly | All Hospitals | 181,034 | 0.8 | 0.6 | 0.7 | 3.8 | 0.4 | 2.3 | 1.2 | 3.6 |
| | Your Hospital | 559 | 0.4 | 0.0 | 0.5 | 0.0 | 0.0 | 1.3 | 0.5 | 5.5 |
| Elderly Blunt Multisystem | All Hospitals | 18,734 | 2.1 | 0.9 | 1.8 | 7.4 | 1.0 | 5.7 | 2.9 | 5.9 |
| | Your Hospital | 74 | 1.4 | 0.0 | 1.4 | 0.0 | 0.0 | 2.7 | 2.7 | 4.1 |
| LIFT | All Hospitals | 69,543 | 0.8 | 0.1 | 0.4 | 4.4 | 0.3 | 1.2 | 0.3 | 3.7 |
| | Your Hospital | 334 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 4.2 |
| IHF | All Hospitals | 71,283 | 0.5 | 0.2 | 0.3 | 3.2 | 0.3 | 0.6 | 0.2 | 2.6 |
| | Your Hospital | 196 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.0 | 3.1 |
| * In addition to centers exclude | d from all risk-adjusted | models, centers | excluded from ris | k-adjusted hospita | l events models a | re excluded fror | n the All Hospital | s rows | | |

USFHealth Health Health



- Table 12, 20 tracked "Events" (Complications)
- **Less** (16/20)
- AKI
- ARDS
- Stroke/CVA
- CAUTI
- SSSI
- DSSI
- OSSI
- VAP

- Severe Sepsis
- Pressure ulcer
- Alcohol withdrawal
- DVT
- Delirium
- PE
- Unplanned intubation
- Unplanned OR



Table 13, 20 tracked Events (Complications)

- Same (1/20)
- CLABSI 0 (zero) reported in the country, again (750,000 pts)-



- Table 12, 20 tracked Events (Complications)-More (3/20)
 - Unplanned ICU admission CI (4.5% vs 3.0%)
 - Cardiac arrest/CPR (1.6% vs 1.4%) CI- Medicine Reconciliation,
 Goals of Care
 - MI (0.4% vs 0.1%) CI PLAN: Medicine Reconciliation



Table 7: Patient Demographic Characteristics by Cohort

| | | Patients | | |
|---------------------------|---------------|----------|-------------------------|-----------|
| Cohort | Group | N | Mean±STD Age (years) | |
| All Patients | All Hospitals | 416,038 | 57.5±22.2 | Ī |
| | Your Hospital | 1,078 | 62.4±22.4 | +5 years |
| Blunt Multisystem | All Hospitals | 60,844 | 51.2±21.7 |] |
| | Your Hospital | 172 | 57.8±23.5 | +6 years |
| Penetrating | All Hospitals | 17,294 | 34.5±14.1 |] |
| | Your Hospital | 18 | 35.8±14.9 | +1 years |
| Shock | All Hospitals | 16,983 | 48.8±20.7 | |
| | Your Hospital | 23 | 62.2±24 | +14 years |
| Severe TBI | All Hospitals | 27,803 | 48.7±21.7 | Ī |
| | Your Hospital | 62 | 57.8±23.8 | +9 years |
| Elderly | All Hospitals | 181,034 | 78.5±8.5 |] |
| | Your Hospital | 559 | 80.8±8.9 | +2 years |
| Elderly Blunt Multisystem | All Hospitals | 18,734 | 77.3±8.5 | 1 |
| | Your Hospital | 74 | 81.3±8.3 | +4 years |
| UFT | All Hospitals | 69,543 | 84.6±6.2 |] |
| | Your Hospital | 334 | 86±6.2 | +2 years |
| IHF | All Hospitals | 71,283 | 81.3±8.4 |] |
| | Your Hospital | 196 | 83.5±8.3 | +2 years |

There are 9 cohorts Including the "ALL" cohort

Our pts are 2-14 years older Depending on cohort



- Where were we 1 year ago and 6 months ago?
- Outliers from Fall 2023- 1 year ago to now
 - 1. AKI- CI!-Dr. Wilson Grand Rounds (avoidance of contrast with renal dysfunction, pharmacist and nephrologist on MDR. New PMG in place.
 - 2. VAP CI! Dr. Renda, early bronchoscopy for TBI w/ RSI to diagnose aspiration and suction, lavage. New PMG in place.
 - 3. Unplanned ICU CI! still an issue (benchmark is adjusted)
 - 4. *Cardiac arrest/CPR CI! still an issue (not adjusted)
 - 5. *MI still an issue CI! (not adjusted)

*= Not Adjusted for risk factors CI=Care Issue, DI=Documentation Issue

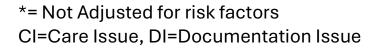


Spring 2024

- Unplanned ICU admission, 5.3% vs
 4.4% Expected
- Cardiac arrest/CPR (still above benchmark, 16 pts vs 14 pts)
- 3. MI (still an issue, 5 pts vs 1 pt)
- 4. Pupillary response for sTBI (new issue)-(Table 8 for sTBI, 27.3%% vs 43.0%)
- 5. Midline shift with sTBI- (Table 8 for sTBI, 30.4% vs 33.5%)

Fall 2024

- Unplanned ICU admission CI! better,
 4.5% vs Expected 4.3%
- *Cardiac arrest/CPR CI!(still above benchmark, 17 pts vs 14 pts)
- 3. *MI CI!(still an issue, 4 pts vs 1 pt)
- 4. Pupillary response DI <u>WORSE</u> 25.8% Ave 42.6% in sTBI in Table 8 for sTBI (Documentation issue)
- 5. Midline shift DI now above benchmark (41.9%, Ave 33.3%)





- · Previous issues- still issues (One of Four)- Care Issue
 - 1. Unplanned ICU admission Care Issue
 - 1. (Table 5, adjusted, better, 4.5% vs Expected (adjusted) 4.3%, (3% not adjusted)
 - 2. New PMG on discharge/admit to SICU
 - 1. Oxygen requirement of NC or less to admit to floor or discharge from SICU
 - 2. Cardiac medications restarted, pharmacist at MDR
 - 3. Normalize electrolytes (K+, Mg++, nephrologist on MDR)
 - 4. No vasoactive drips if discharging from SICU

If the patient needs ICU admission, ignore this issue and transfer to the ICU "Patients first!"



- Previous issues- still issues (Two of Four)- Care Issue
 - 1. *Cardiac arrest/CPR Care Issue! (Table 12, still above benchmark, 1.6% (17pts) vs Ave 1.3% (14 pts)
 - 1. Not adjusted
 - 2. PLAN: Medical Reconciliation, esp. BB, statins, angina meds, CHF meds
 - 3. Medical Reconciliation button stays RED until medications reconciled
 - 4. Pharmacist at MDR
 - 5. Review "Goals of Care"
 - 6. Of note, this does NOT count pts who arrive in cardiac arrest with CPR.
 *= Not Adjusted for risk factors



- Previous issues- still issues (Three of Four)- Care Issue
 - 1. *MI Care Issue! (still an issue, 5 pts vs 1 pt)- Table 12
 - 1. Not adjusted
 - 2. PLAN: Medical Reconciliation, esp. BB, statins, angina meds, CHF meds
 - 3. Medical Reconciliation button stays RED until medications reconciled
 - 4. Pharmacist at MDR, Nephrologist at MDR
 - 5. Geriatric provider utilized for older patients, more common to get troponins, EKG if new issues arise, such as atrial fibrillation with RVR
 - 6. To lower atrial fibrillation with RVR, attention to fluid status of elderly patients
 - 7. Daily BNaP on patients with CHF

*= Not Adjusted for risk factors



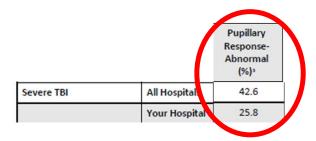
Previous issues- still issues (Four of Four)- Documentation Issue

Pupillary response – Documentation Issue, ATLS recommends two variables be considered on all TBIs- 1)GCS and 2)pupillary response

- Pupillary response documentation WORSE 25.8% Avg 42.6% in sTBI
- On review of the Spring 2024 report, pupillometer readings were not consistently documented despite using a pupilometer on all activations
 - All Level 1 and Level 2 activations need pupilometer results in H&P, spot checks by TMD with education to the team as needed
 - All TBI bleeds need pupilometer results in medical record.



• Table 8, Injury Severity



Deficiency 4 of 4 sTBI GCS 8 and bleed

Progress over last year

- 1. AKI- Care Issue! resolved, Dr. Wilson Grand Rounds, avoid contrast in elderly, avoid nephrotoxic meds, MDR, nephrologist on daily MDR
- 2. VAP Care Issue! resolved, Dr. Renda recommended early bronchoscopy for TBI/RSI during Trauma Grand Rounds
- 3. Midline shift -Documentation issue resolved. Continue to place this in injury pattern in the EMR
- 4. Unplanned ICU Care Issue! (Registry data predicts 2% (3%) for Spring 2025) (benchmark is adjusted) New PMG
- 5. *Cardiac arrest/CPR Care Issue! (Registry data predicts 1.1% (1.3%) Spring 2025) (not adjusted), Medicine Reconciliation, Pharmacist at MDR, Goals of Care
- 6. *MI Care Issue! (Registry data predicts *Zero* (0.1%) MI for Spring 2025) (not adjusted), Medical Reconciliation, Pharmacist at MDR
- 7. Pupillary Response in sTBI- Documentation Issue, spot checks (Registry data suggests still an active issue for Spring 2025 TQIP)



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2024 Fall TQIP MORTALITY

Table 2: Risk-Adjusted Mortality by Cohort

| | Patients | | Mortality | | | | Odds Ratio and Confidence Int | | | |
|---------------------------|----------|--------------------|-----------------|-----------------|---------------------|------------|----------------------------------|-------|---------|--------|
| Cohort | N | Observed Events | Observed (%) | Expected (%) | TQIP Average (%) | Odds Ratio | Lower | Upper | Outlier | Decile |
| All Patients | 1,078 | 60 | 5.6 | 10.4 | 7.5 | 0.42 | 0.31 | 0.55 | Low | 1 |
| Blunt Multisystem | 172 | 31 | 18.0 | 24.0 | 14.6 | 0.66 | 0.44 | 1.00 | Low | 1 |
| Penetrating | 18 | 0 | 0.0 | 6.6 | 10.7 | 0.81 | 0.35 | 1.87 | Average | 1 |
| Shock | 23 | 9 | 39.1 | 40.4 | 26.4 | 0.98 | 0.59 | 1.63 | Average | 5 |
| Severe TBI | 62 | 20 | 32.3 | 46.4 | 46.9 | 0.54 | 0.32 | 0.92 | Low | 1 |
| Elderly | 559 | 48 | 8.6 | 16.3 | 9.8 | 0.41 | 0.30 | 0.56 | Low | 1 |
| Elderly Blunt Multisystem | 74 | 21 | 28.4 | 39.0 | 20.4 | 0.68 | 0.43 | 1.07 | Average | 1 |
| UFT | 334 | 12 | 3.6 | 8.8 | 5.9 | 0.56 | 0.38 | 0.83 | Low | 1 |
| IHF | 196 | 10 | 5.1 | 5.8 | 3.4 | 0.92 | 0.56 | 1.50 | Average | 4 |



Table 2: Risk-Adjusted Mortality by Cohort

| | Patients | | Mortality | | | | Odds Ratio and 95% Confidence Interval | | | |
|---------------------------|----------|--------------------|-----------------|-----------------|---------------------|------------|---|-------|---------|--------|
| Cohort | N | Observed Events | Observed (%) | Expected (%) | TQIP Average (%) | Odds Ratio | Lower | Upper | Outlier | Decile |
| All Patients | 1,078 | 60 | 5.6 | 10.4 | 7.5 | 0.42 | 0.31 | 0.55 | Low | 1 |
| Blunt Multisystem | 172 | 31 | 18.0 | 24.0 | 14.6 | 0.66 | 0.44 | 1.00 | Low | 1 |
| Penetrating | 18 | 0 | 0.0 | 6.6 | 10.7 | 0.81 | 0.35 | 1.87 | Average | 1 |
| Shock | 23 | 9 | 39.1 | 40.4 | 26.4 | 0.98 | 0.59 | 1.63 | Average | 5 |
| Severe TBI | 62 | 20 | 32.3 | 46.4 | 46.9 | 0.54 | 0.32 | 0.92 | Low | 1 |
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| UFT | 334 | 12 | 3.6 | 8.8 | 5.9 | 0.56 | 0.38 | 0.83 | Low | 1 |
| IHF | 196 | 10 | 5.1 | 5.8 | 3.4 | 0.92 | 0.56 | 1.50 | Average | 4 |

Table 2a: Risk-Adjusted Mortality by Reporting Period and Cohort

| | | Odds Ratio | | | | | | | | | | |
|---------------------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|--|--|
| Cohort | Spring 2020 | Fall 2020 | Spring 2021 | Fall 2021 | Spring 2022 | Fall 2022 | Spring 2023 | Fall 2023 | Spring 2024 | Fall 2024 | | |
| All Patients | 1.04 | 0.73 | 0.39 | 0.47 | 0.45 | 0.44 | 0.45 | 0.49 | 0.45 | 0.42 | | |
| Blunt Multisystem | 1.07 | 0.87 | 0.65 | 0.63 | 0.58 | 0.52 | 0.60 | 0.75 | 0.79 | 0.66 | | |
| Penetrating | 0.91 | 0.88 | 0.84 | 0.81 | 0.99 | 0.87 | 0.82 | 0.87 | 0.77 | 0.81 | | |
| Shock | 0.90 | 0.91 | 0.96 | 1.03 | 0.98 | 0.85 | 0.87 | 0.95 | 0.87 | 0.98 | | |
| Severe TBI | 0.67 | 0.95 | 0.85 | 0.73 | 0.49 | 0.36 | 0.39 | 0.59 | 0.64 | 0.54 | | |
| Elderly | 1.00 | 0.74 | 0.37 | 0.42 | 0.52 | 0.51 | 0.50 | 0.50 | 0.44 | 0.41 | | |
| Elderly Blunt Multisystem | 1.19 | 0.98 | 0.58 | 0.58 | 0.71 | 0.86 | 0.70 | 0.72 | 0.82 | 0.68 | | |
| LIFT | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.56 | | |
| IHF | 0.88 | 0.68 | 0.66 | 0.60 | 0.44 | 0.67 | 0.81 | 0.64 | 0.72 | 0.92 | | |



Table 2a: Risk-Adjusted Mortality by Reporting Period and Cohort

| | | Odds Ratio | | | | | | | | | | |
|---------------------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|--|--|
| Cohort | Spring 2020 | Fall 2020 | Spring 2021 | Fall 2021 | Spring 2022 | Fall 2022 | Spring 2023 | Fall 2023 | Spring 2024 | Fall 2024 | | |
| All Patients | 1.04 | 0.73 | 0.39 | 0.47 | 0.45 | 0.44 | 0.45 | 0.49 | 0.45 | 0.42 | | |
| Blunt Multisystem | 1.07 | 0.87 | 0.65 | 0.63 | 0.58 | 0.52 | 0.60 | 0.75 | 0.79 | 0.66 | | |
| Penetrating | 0.91 | 0.88 | 0.84 | 0.81 | 0.99 | 0.87 | 0.82 | 0.87 | 0.77 | 0.81 | | |
| Shock | 0.90 | 0.91 | 0.96 | 1.03 | 0.98 | 0.85 | 0.87 | 0.95 | 0.87 | 0.98 | | |
| Severe TBI | 0.67 | 0.95 | 0.85 | 0.73 | 0.49 | 0.36 | 0.39 | 0.59 | 0.64 | 0.54 | | |
| Elderly | 1.00 | 0.74 | 0.37 | 0.42 | 0.52 | 0.51 | 0.50 | 0.50 | 0.44 | 0.41 | | |
| Elderly Blunt Multisystem | 1.19 | 0.98 | 0.58 | 0.58 | 0.71 | 0.86 | 0.70 | 0.72 | 0.82 | 0.68 | | |
| LIFT | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.56 | | |
| IHF | 0.88 | 0.68 | 0.66 | 0.60 | 0.44 | 0.67 | 0.81 | 0.64 | 0.72 | 0.92 | | |



Table 2a: Risk-Adjusted Mortality by Reporting Period and Cohort

| | | Odds Ratio | | | | | | | | | | |
|---------------------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|--|--|
| Cohort | Spring 2020 | Fall 2020 | Spring 2021 | Fall 2021 | Spring 2022 | Fall 2022 | Spring 2023 | Fall 2023 | Spring 2024 | Fall 2024 | | |
| All Patients | 1.04 | 0.73 | 0.39 | 0.47 | 0.45 | 0.44 | 0.45 | 0.49 | 0.45 | 0.42 | | |
| Blunt Multisystem | 1.07 | 0.87 | 0.65 | 0.63 | 0.58 | 0.52 | 0.60 | 0.75 | 0.79 | 0.66 | | |
| Penetrating | 0.91 | 0.88 | 0.84 | 0.81 | 0.99 | 0.87 | 0.82 | 0.87 | 0.77 | 0.81 | | |
| Shock | 0.90 | 0.91 | 0.96 | 1.03 | 0.98 | 0.85 | 0.87 | 0.95 | 0.87 | 0.98 | | |
| Severe TBI | 0.67 | 0.95 | 0.85 | 0.73 | 0.49 | 0.36 | 0.39 | 0.59 | 0.64 | 0.54 | | |
| Elderly | 1.00 | 0.74 | 0.37 | 0.42 | 0.52 | 0.51 | 0.50 | 0.50 | 0.44 | 0.41 | | |
| Elderly Blunt Multisystem | 1.19 | 0.98 | 0.58 | 0.58 | 0.71 | 0.86 | 0.70 | 0.72 | 0.82 | 0.68 | | |
| LIFT | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.56 | | |
| IHF | 0.88 | 0.68 | 0.66 | 0.60 | 0.44 | 0.67 | 0.81 | 0.64 | 0.72 | 0.92 | | |

Palliative Care joins MDR



| Report | Spring 2022 | Fall 2022 | Spring 2023 | Fall 2023 | Spring 2024 | Fall 2024 |
|-----------------|----------------|-----------|----------------|-----------|----------------|-----------|
| Hospice % | 1.2% | 0.6% | 1.1% | 2.2% | 2.7% | 3.1% |
| Hard Hospice | 2 | 1 | 2 | 2 | 1 | 1 |
| Soft Hospice | 0 | 0 | 0 | 2 | 4 | 5 |
| Decile | 1 | 1 | 1 | 2 | 1 | 4 |

Hard Hospice= non op management, or on vent, or non-ambulatory Soft Hospice= post op from hip repair surgery, off ventilator, and ambulatory

Concerns for increasing IHF mortality. "Soft hospice" - increased from rarely to ~3%. Increase in IHF mortality started when palliative care/hospice team started attending multi-disciplinary rounds.



Summary

- Over the last year, two care outliers of seven have been corrected (AKI, VAP)
- Over last 6 months, one documentation outlier corrected (midline shift documentation)
- Three of seven care outliers still exist, making some progress (unplanned ICU admission, Cardiac arrest with CPR, and MI)
 - Cardiac arrest/MI -medical reconciliation, restart beta blockers, statins. Consider Goals of Care
 - Unplanned ICU admission-new policy implemented, near adjusted benchmark. Threshold monitoring
- 1 new documentation outlier (pupillary response). Pupilometer reading on all patients in trauma resuscitation. All pts should have this result documented in medical record, twice weekly audit by TMD/ATMD. Education provided as necessary.
- Palliative Care and Hospice Care are current issue. Palliative Care team will usfHealth HCAP ntial "Soft Hospice" discharges with the trauma attending.

Trauma Network

- Summary continued actions
 - Unplanned ICU admission-new policy approved, near adjusted benchmark
 - Cardiac arrest -medical reconciliation, goals of care
 - MI –medical reconciliation, restart beta blockers, statins. Consider Goals of Care



Comments/Questions/Queries?

Ideas?

Thank you

