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**Trauma Systems Committee**  
  
Bureau of Health Care Safety and Quality  
Department of Public Health  
  
Wednesday, May 23, 2018

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**Agenda**

* Welcome
* Approval of Minutes from February 28, 2018
* Trauma Registry Structure
* Traumas Reported by City or Town Service Area
* Legacy Data (FFY 2008-FFY 2015) Findings
* Transition Year (FFY 2016) Submission Updates
* Current Data (FFY 2017-2018) Submissions Updates
* Public Comment
* Next Steps

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**Open Meeting Law (OML)**

* The OML is designed to ensure transparency in the ***deliberations*** of public bodies.
* A ***deliberation*** is:
  + an oral or written communication, through any medium, ***including electronic mail*,**
  + between or among a ***quorum*** of a public body,
  + on any public business within its jurisdiction.
* **If a quorum of a public body wants to discuss public business within that body’s jurisdiction, they must do so during a properly posted meeting.**

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**What is a Quorum**

* A Quorum is defined as:
  + A **simple majority** of the members of a public body, unless otherwise provided in a general or special law, executive order, or other authorizing provision.  G.L. c. 30A, § 18.
  + **As applied to the Trauma Systems Committee—a quorum equals 10 members (½ of 19 members + 1)**

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**Meeting Minutes Approval**

Approval of Minutes from the February 28, 2018 Meeting

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**Trauma Registry Structure-Current Submission Process**

* Data submission is uploaded through a system (SENDS/INET) that the Center of Health Information and Analysis (CHIA) developed for claims reporting.
* Chloen Systems maintains this system as the Department’s vendor.
* The Trauma Registry is housed on a server within another agency.
* Data files are created by Chloen Systems.
* Data is abstracted to DPH server by DPH Information Technology.

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**Trauma Registry Structure Request for Responses**

* The Department is issuing a Request for Responses (RFR) to seek a vendor to implement and support a second generation of the Trauma Registry system.
* The Department uses a transparent procurement process to solicit responses from bidders.
  + Bidders must submit a complete response via COMMBUYS, the Commonwealth’s public procurement record system.
  + Once posted, all information about the RFR may be found on: www.commbuys.com
* Review of responses includes:
  + Business
  + Technical
  + Cost
* The Department secured funding for this work through a competitive grant from the National Highway Traffic Safety Administration.

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**Trauma Registry**

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**Trauma Registry Background**

* The Trauma Registry data system (Trauma Registry) is comprised of reported hospital data, as submitted by hospital trauma registrars.
* The Trauma Registry collects information in accordance with the National Trauma Data Bank as well as some minimal state specific data points that allow linkages with other State systems.
* The data element categories are organization and personal identifiers, demographics, clinical information, injury information, pre-hospital information, emergency department information, diagnosis information, injury severity information, and quality assurance information.

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**Trauma Registry Reporting Requirements**

* As required by 105 CMR 130.851 (C): a hospital providing trauma services as a designated trauma center must provide:

*to the Center for Health Information Analysis (CHIA) the designated trauma center data set specified in Department guidelines;*

* As required by 105 CMR 130.852 (A), a hospital that is not a designated trauma center may be licensed to provide Emergency Services only if the hospital provides to CHIA the trauma service hospital data set to be specified in 105 CMR 130.851(C)*.*

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**Massachusetts Emergency Medical Service Regions (EMS) and American College of Surgeons (ACS) Verified Trauma Centers**

Image of Massachusetts map with DPH-approved regional points of entry hospital destinations for Trauma.

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**February 28, 2018 Follow-up Requests**

|  |  |
| --- | --- |
| Request | Action Taken |
| How are transfers out of state captured? | -Out of state transfers are not captured in the Trauma Registry  -Exploring MATRIS data to identify event estimates |
| What is the outcome of patients who are captured in the trauma registry? | Submitted legacy database to CHIA for matching to administrative data to determine discharge disposition |
| What type of individual experiences a fall? | Age example included in later slide. |
| What are the traumas by community versus trauma hospital? | Age examples included in later slides. |
| What are the ages of individuals who experience a trauma? | Age examples included in later slides. |

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**Trauma Observations by Incident Location**

In order to be responsive to multiple requests for information the Department is sharing today and posting shortly on its website:

Reported Trauma Incident Count by Incident Cities/Towns for FFY 2014 and FFY 2015:

|  |  |  |
| --- | --- | --- |
| **INCIDENT CITY/TOWN** | **2014** | **2015** |
| **ABINGTON** | 96 | 83 |
| **ACTON** | 97 | 99 |
| **ACUSHNET** | \* | \* |
| **ADAMS** | 37 | 47 |
| **AGAWAM** | 40 | 45 |
| **ALFORD** | \* | 10 |
| **AMESBURY** | 145 | 112 |
| **AMHERST** | 75 | 56 |

\* Any incident count less than 5 will be suppressed in accordance with Department of Public Health Confidentiality Procedure 7

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**Trauma Registry Data**

There are three categories of Trauma Registry Data:

* Legacy Data (Federal Fiscal Year (FFY)2008-FFY2015):
  + Starting in 2008, Massachusetts collected 41 data elements.
  + Includes traumas reported with Admission dates of October 1, 2007-September 30, 2015.
  + Uses International Classification of Diseases 9th edition (ICD-9-CM) for inclusion criteria, diagnosis and injury codes.
* Transition Data (FFY2016):
  + Transition to ICD-10-CM from ICD-9-CM.
* Current Data (FFY2017-present):
  + In alignment with the National Trauma Data Bank, there are now 96 data elements.

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**Legacy Data: All Cause Trauma Incidents by Age**

All Cause Trauma Incidents by Age

|  |  |
| --- | --- |
| **Age at Incident** | **Trauma Cases Count** |
| <1 | 5079 |
| 1-4 | 13733 |
| 5-9 | 16523 |
| 10-14 | 19480 |
| 15-19 | 30610 |
| 20-24 | 33456 |
| 25-34 | 48218 |
| 35-44 | 43125 |
| 45-54 | 59300 |
| 55-64 | 60364 |
| 65-74 | 54975 |
| 75-84 | 77720 |
| 85+ | 85998 |

Data Source: MA Trauma Registry

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**Legacy Data: Trauma Incidents by Age and Gender**

Trauma Incidents by Age and Gender

|  |  |  |
| --- | --- | --- |
| **Age at Incident** | **Trauma Cases Count (Male)** | **Trauma Cases Count (Female)** |
| <1 | 2824 | 2255 |
| 1-4 | 8053 | 5680 |
| 5-9 | 9740 | 6783 |
| 10-14 | 13357 | 6123 |
| 15-19 | 22492 | 8118 |
| 20-24 | 24688 | 8768 |
| 25-34 | 34956 | 13262 |
| 35-44 | 29863 | 13262 |
| 45-54 | 38404 | 20896 |
| 55-64 | 33121 | 27243 |
| 65-74 | 24550 | 30425 |
| 75-84 | 27643 | 500077 |
| 85+ | 24055 | 61943 |

Data Source: MA Trauma Registry

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**Legacy Data: Diving Accidents by Age**

Trauma Incidents due to Diving Accidents (E8830)

|  |  |
| --- | --- |
| **Age at Incident** | **Trauma Cases Count** |
| 5-9 | 14 |
| 10-14 | 42 |
| 15-19 | 69 |
| 20-24 | 87 |
| 25-34 | 75 |
| 35-44 | 65 |
| 45-54 | 54 |

Data Source: MA Trauma Registry

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**Legacy Data: Dog Bites by Age**

Trauma Incidents due to Dog Bites (E9060)

|  |  |
| --- | --- |
| **Age at Incident** | **Trauma Cases Count** |
| <1 | 28 |
| 1-4 | 337 |
| 5-9 | 266 |
| 10-14 | 132 |
| 15-19 | 57 |
| 20-24 | 110 |
| 25-34 | 169 |
| 35-44 | 133 |
| 45-54 | 227 |
| 55-64 | 158 |
| 65-74 | 48 |
| 75-84 | 38 |
| 85+ | 17 |

Data Source: MA Trauma Registry

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**Legacy Data: Suicide and Self-Injury by Age**

Trauma Incidents due to Suicide and Self-Injury (E9500-E9589)

|  |  |
| --- | --- |
| **Age at Incident** | **Trauma Cases Count** |
| <1 | 0 |
| 1-4 | 1 |
| 5-9 | 8 |
| 10-14 | 79 |
| 15-19 | 288 |
| 20-24 | 325 |
| 25-34 | 532 |
| 35-44 | 511 |
| 45-54 | 480 |
| 55-64 | 219 |
| 65-74 | 77 |
| 75-84 | 91 |
| 85+ | 16 |

Data Source: MA Trauma Registry

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**Legacy Data: Suicide and Self-Injury by Age and Gender**

Massachusetts Trauma Cases due to Suicide and Self-Injury by Gender (E9500-E9589), 2008-2015

|  |  |  |
| --- | --- | --- |
| **Age at Incident** | **Trauma Cases Count (Male)** | **Trauma Cases Count (Female)** |
| <1 | 0 | 0 |
| 1-4 | 1 | 0 |
| 5-9 | 7 | 1 |
| 10-14 | 41 | 38 |
| 15-19 | 214 | 74 |
| 20-24 | 238 | 87 |
| 25-34 | 402 | 130 |
| 35-44 | 380 | 131 |
| 45-54 | 343 | 137 |
| 55-64 | 163 | 56 |
| 65-74 | 68 | 9 |
| 75-84 | 83 | 8 |
| 85+ | 16 | 0 |

Data Source: MA Trauma Registry

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**Legacy Data: Trauma Incidents by Region and Age**

Trauma Incidents by Region and Adult/Pediatric Age Routed to Verified Trauma Centers

|  |  |  |
| --- | --- | --- |
| **Massachusetts Region** | **Trauma Cases Count (Pediatric)** | **Trauma Cases Count (Adult)** |
| Region 1 | 6702 | 33176 |
| Region 2 | 7597 | 28846 |
| Region 3 | 8249 | 55427 |
| Region 4 | 31908 | 171732 |
| Region 5 | 863 | 8544 |

Data Source: MA Trauma Registry

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**Legacy Data: Pediatric Trauma Incidents by Region**

Pediatric Trauma Incidents by Region Routed to Verified Trauma Centers

|  |  |
| --- | --- |
| **Massachusetts Region** | **Trauma Cases Count** |
| Region 1 | 6702 |
| Region 2 | 7597 |
| Region 3 | 8249 |
| Region 4 | 31908 |
| Region 5 | 863 |

Data Source: MA Trauma Registry

N= 55,319

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**Legacy Data: Trauma Incidents by Region**

Adult Trauma Incidents by Region Routed to Verified Trauma Centers

|  |  |
| --- | --- |
| **Massachusetts Region** | **Trauma Cases Count** |
| Region 1 | 33176 |
| Region 2 | 28846 |
| Region 3 | 55427 |
| Region 4 | 171732 |
| Region 5 | 8544 |

Data Source: MA Trauma Registry

N= 297,725

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**FFY 2016 Data Submission Update for Verified Trauma Hospitals**

|  |  |  |
| --- | --- | --- |
|  | **Number** | **Percentage** |
| **Quarter 1** | 8 | 47% |
| **Quarter 2** | 7 | 41% |
| **Quarter 3** | 6 | 35% |
| **Quarter 4** | 7 | 41% |
| **Overall Completeness** | 28 | 41% |

Five hospitals have successfully submitted for all 2016 quarters

One hospital has three quarters of 2016 data submitted

Five hospitals have successfully submitted one quarter of 2016 data

Five hospitals have not passed any submissions

One hospital has passed all adult but not pediatric 2016 submissions

Data abstracted from the Trauma Registry on May 6, 2018

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**FFY 2017 & 2018 Data Submission Update for All Hospitals**

|  |  |  |
| --- | --- | --- |
|  | **Number of Quarters** | **Number of Hospitals** |
| **FFY 2017** | 26 | 10 |
| **FFY 2018** | 3 | 3 |

Data abstracted from the Trauma Registry on May 6, 2018

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**Public Comment Period**

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**Anticipated Next Meeting Deliverables**

* Overview of out-of-state transfers.
* Overview of fall-related traumas by age and region.
* Discussion of state-specific data elements of the Trauma Data Collection File Specification Guide for FFY 2019.
* Summary of Trauma Registry data for FFY2016 reported.

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**Future Meetings**

Meeting Schedule:

* Wednesday, August 29, 2018
* Wednesday, November 28, 2018

All meetings will be held from 10:00am-12:00pm and are expected to be held at MEMA.

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**Additional Information**

For more information, please visit:

https://www.mass.gov/service-details/trauma-systems-committee