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**Trauma Systems Committee**

Bureau of Health Car Safety and Quality

Department of Public Health

November 20, 2019

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**Agenda**

* Approval of Minutes from August 28, 2019
* Department Update
  + Relocation update
  + Trauma Systems Committee 2018 and 2019 Recap
  + Trauma Systems Committee 2020 Plan
* Region 4 Discussion
  + Public Comment on Region 4

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**Open Meeting Law: G.L. c. 30A, §§18-25**

* The purpose of open meeting law (OML) is to ensure transparency in the deliberations on which public policy is based.
  + This requires that meetings of public bodies be open to the public.
* All meetings of a public body must be open to the public.
  + A meeting is any deliberation by a public body with respect to any matter within the body’s jurisdiction.
  + A deliberation is a communication between members among members of a public body.
* A public body is any multi-member board, commission, committee or subcommittee within the executive or legislative branches (except the Legislature) of state government
  + This includes any body created to advise or make recommendations
* Under OML the public is permitted to attend meetings.
  + Individuals in meetings may not address the public body without the permission of the chair.
  + Public participation is allowed at the discretion of the chair.
* For more information on Open Meeting Law, please visit:
  + https://www.mass.gov/the-open-meeting-law

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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 August 28, 2019 Meeting**

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**Department Update**

* BHCSQ Relocation
  + Anticipate holding May 2020 Trauma System Committee meeting at 67 Forest Street, Marlborough
* Recap of Trauma Systems Committee 2018 - 2019 Meetings
* Trauma Systems Committee 2020 Plan

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**Trauma Registry**

* Trauma Registry Request for Responses (RFR) Update
* Hospital Data Submission Update
* Intentional Traumatic Self-Injury
* Residence City/Town for Trauma Patients in Region 4

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**Trauma Data Submissions from Designated Trauma Centers**

* 2016 & 2017 submissions for designated trauma centers are nearly complete
* 16 trauma designated hospitals have completed data entry through FFY2017
* 14 trauma designated hospitals have completed data entry through FFY 2018
* The Registry is now accepting 2019 submissions

Status Date Table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N = 17 | August 2018 | November 2018 | February 2019 | May 2019 | August 2019 | **November 2019** |
| 2016 | 16 | 16 | 16 | 16 | 16 | **16** |
| 2017 | 9 | 16 | 16 | 16 | 16 | **17** |
| 2018 | 4 | 14 | 15 | 15 | 15 | **17** |
| 2019 | -- | -- | -- | -- | 0 | **4** |

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**Trauma Data Submissions from Community Hospitals**

* Ongoing, individual outreach continues with community hospitals to increase response rate
* 32 community hospitals have complete data through FFY2018
* 7 community hospitals have submitted no data between 2016 and 2018

Status Date

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N = 50 | August 2018 | November 2018 | February 2019 | May 2019 | August 2019 | **November 2019** |
| 2016 | 25 | 26 | 32 | 38 | 39 | **40** |
| 2017 | 25 | 25 | 29 | 28 | 33 | **33** |
| 2018 | 19 | 23 | 25 | 30 | 33 | **33** |
| 2019 | --- | --- | --- | 3 | 15 | **18** |

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**Intentional Traumatic Self-injury in Massachusetts, 2016-2018**

* 179 intentional self-injuries were reported to the registry from 2016 to 2018
* Cases were identified using the CDC Injury Coding and Data Systems categories and TR ICD10 primary external cause code
* In 2016 there were 636 intentional self-injury deaths in MA\*

Data Source: MA Trauma Registry

N=31,879, 2016-2018

8,772 missing ICD=10 primary external cause code

CDC Injury Coding and Data Systems resources: <https://www.cdc.gov/injury/wisqars/dataandstats.html>

\* Massachusetts Deaths 2016 : <https://www.mass.gov/files/documents/2019/08/19/DPH-Death-Report-2016-20190815.pdf>

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**Intentional Traumatic Self-injury in Massachusetts, 2016-2018**

Chart depicting:

* 636 deaths by self-injury, 2016 (2017-2018 deaths not yet available)
* Patients admitted to the facility as an in-patient or observation with self-harm injuries
* Patients admitted to the facility or completing an observation stay with intentional traumatic self-harm injuries, 2016-2018 (N=179)
* Patients presenting to the emergency department with self-harm injuries
* Patients presenting the to ED with traumatic self-harm injuries

Data Source: MA Trauma Registry

Massachusetts Deaths 2016 : <https://www.mass.gov/files/documents/2019/08/19/DPH-Death-Report-2016-20190815.pdf>

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**Intentional Traumatic Self-injury in Massachusetts, 2016-2018**

* 68.2% of all self-injury traumas were reported in male patients
* Women make more suicide attempts than men, but men are known to use more lethal means\*
* 9.5% of all self-injury trauma patients were black or African American

**Massachusetts reported self-injury trauma, 2016-2018 (N=179)**

|  |  |  |
| --- | --- | --- |
|  | **N** | **%** |
| **Gender** |  |  |
| Male | 122 | 68.2% |
| Female | 57 | 31.8% |
| **Race** |  |  |
| White | 146 | 81.6% |
| Black or African American | 17 | 9.5% |
| Other | 16 | 8.6% |

Data Source: MA Trauma Registry

N= 179

CDC Injury Coding and Data Systems resources: <https://www.cdc.gov/injury/wisqars/dataandstats.html>

\* Turecki G, Brent DA. Suicide and suicidal behavior. Lancet 2016: 387:1227-39.

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**Reported traumatic intentional self-injury in Massachusetts by age and gender, 2016-2018**

* Median patient age at time of admission was similar between men and women
* Women had more variation in age at trauma when compared to men

Graph of Reported traumatic intentional self-injury in Massachusetts by age and gender, 2016-2018

Data Source: MA Trauma Registry

N=179

Three cases missing age at admission

CDC Injury Coding and Data Systems resources: <https://www.cdc.gov/injury/wisqars/dataandstats.html>

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**Reported traumatic intentional self-injury in Massachusetts by injury type, 2016-2018**

Graph of Reported traumatic intentional self-injury in Massachusetts by injury type, 2016-2018

Data Source: MA Trauma Registry

N=179

Injury categories with fewer than five reported injuries are suppressed

CDC Injury Coding and Data Systems resources: <https://www.cdc.gov/injury/wisqars/dataandstats.html>

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**Specific traumatic intentional self-injury in Massachusetts by injury type and gender, 2016-2018**

* 67% of cutting or piercing related traumatic self-injuries were in men
* 52% of all motor vehicle related traumatic self-injuries were reported in women, despite women accounting for 31.8% of traumatic self-injury

Graph of Specific traumatic intentional self-injury in Massachusetts by injury type and gender, 2016-2018

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**Reported traumatic intentional self-injury in Massachusetts by cut or piercing external cause, 2016-2018**

Chart of Reported traumatic intentional self-injury in Massachusetts by cut or piercing external cause, 2016-2018

Data Source: MA Trauma Registry

N=124

CDC Injury Coding and Data Systems resources: <https://www.cdc.gov/injury/wisqars/dataandstats.html>

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**Home City/Town of Trauma Patients Treated in Region 4 Facilities, 2011-2015**

* The majority of patients treated in Region 4 were admitted from the surrounding communities
* Some travelled from the Cape and Islands and Northeastern MA
* Fewer patients travelled directly from Western MA for treatment

Map of trauma patients directly admitted to Region 4, by patient home city, 2011-2015

Data Source: MA Trauma Registry

N= 44,597

17,696 reported traumas with no MA resident ZIP, including out of state residents

CDC Injury Coding and Data Systems resources: <https://www.cdc.gov/injury/wisqars/dataandstats.html>

Includes only reported traumas with a documented patient home address

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**Home City/Town of Trauma Patients Transferred to Region 4 Facilities from another Acute Care Facility, 2011-2015**

* The majority of patients transferred to Region 4 were from Metro Boston, Southeastern MA, and Northeastern MA
* Fewer patients were transferred from Central and Western MA
* These counts only include MA residents

Map of trauma patients transferred to Region 4, by patient home city, 2011-2015

Data Source: MA Trauma Registry

N= 14,299

7,781 reported traumas with no MA resident ZIP, including out of state residents

CDC Injury Coding and Data Systems resources: <https://www.cdc.gov/injury/wisqars/dataandstats.html>

Includes only reported traumas with a documented patient home address

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**Region 4**

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**Traumas per 10,000 Residents, 2011-2015**

Graph of Traumas per 10,000 Residents, 2011-2015

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**EMS Response Time for Trauma Runs**

Graph of EMS Response Time for Trauma Runs

* Data Time Frame includes: 1/1/2015 – 12/31/2016
* Response time = Unit Notified by Dispatch Date/Time (or Unit En Route Date/Time if the previous is missing) until Unit Arrived on Scene Date/Time (or Arrived at Patient Date/Time if the previous is missing)
* Transport time = Unit Left Scene Date/Time until Patient Arrived at Destination Date/Time (if something is missing here, we cannot calculate a transport time)
* All runs have a Primary Impression, Secondary Impression or Cause of Injury defining it as a Trauma related incident.
* Only includes incident dispositions indicating transport (e.g does not include cancelled, no patient found, standby only, or refusals)
* Ambulance services are required to enter data into MATRIS per A/R 5-403 Statewide EMS Minimum Dataset. Data are required to be submitted within 14 days; however, actual submission timeframes vary by ambulance service.

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**EMS Transport Time for Trauma Runs**

Graph of EMS Transport Time for Trauma Runs

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**Traumas per 10,000 Residents by Age, 2011-2015**

Graph of Traumas per 10,000 Residents by Age, 2011-2015

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**Traumas per 10,000 Residents by Gender, 2011-2015**

Graph of Traumas per 10,000 Residents by Gender, 2011-2015

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**Mode of Transit for Traumas, 2011-2015**

Graph of Mode of Transit for Traumas, 2011-2015 in Region 4 (n= 76,736)

Graph of Mode of Transit for Traumas, 2011-2015 in Massachusetts (n= 149,635)

Data Source: MA Trauma Registry

Massachusetts missing = 42,685 missing observations

Region 4 missing = 3,260

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**Transferred Traumas, 2011-2015**

Graph of Transferred Traumas, 2011-2015

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**Traumas per 10,000 Residents by Fall Type, 2011-2015**

Graph of Traumas per 10,000 Residents by Fall Type, 2011-2015

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**Traumas per 10,000 Residents by Fall Type and Gender, 2011-2015**

Graph of Traumas per 10,000 Residents by Fall Type and Gender, 2011-2015

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**Motor Vehicle Traumas per 10,000 Residents, 2011-2015**

Graph of Motor Vehicle Traumas per 10,000 Residents, 2011-2015

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**Off-Road Vehicle per 10,000 Residents, 2011-2015**

Graph of Off-Road Vehicle per 10,000 Residents, 2011-2015

Data Source: MA Trauma Registry

Region 4 patients in a snow vehicle accident = 9

Region 4 patients in off road vehicle accident = 135

MA patients in snow vehicle accident = 287

MA patients in off road vehicle accident = 630

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**Regional Discussion Framework**

1. **Pre-Hospital:** 
   * What is the process used at regional hospitals with designated trauma services for receiving notification from EMS of an incoming trauma?
   * What follow-up communication or feedback is provided to EMS personnel?
2. **In-Hospital:** 
   * When do your local hospitals transfer patients to a trauma center?
   * Are there any specialties that are particularly difficult for you to access for your patients?
3. **Post-Trauma:** 
   * What post trauma resources are available to your hospitals?
   * What barriers do you encounter when trying to place patients in an appropriate facility?
4. **Prevention and Access**:
   * What role do the hospitals with designated trauma services play in trauma prevention in your region?
   * Is there equitable access to trauma care in your region, and is current trauma care meeting the needs of the region’s patient population?

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**Region 4 Public Comment**

Public Comment on Region 4

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Regional Discussion Framework

* **Pre-Hospital:** 
  + What is the process used at regional hospitals with designated trauma services for receiving notification from EMS of an incoming trauma?
  + What follow-up communication or feedback is provided to EMS personnel?
* **In-Hospital:** 
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  + What post trauma resources are available to your hospitals?
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* **Prevention and Access**:
  + What role do the hospitals with designated trauma services play in trauma prevention in your region?
  + Is there equitable access to trauma care in your region, and is current trauma care meeting the needs of the region’s patient population?

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**Future Meetings**

* Meeting Schedule:   
  Wednesday, May 20, 2020

All meetings will be held from 10:00am-12:00pm at 67 Forest Street, Marlborough.

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**Additional Information**

For more information, please visit:

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