The Power of Data

Bureau of Emergency and Trauma Services (BETS)

Objectives

O Understanding the components of good data.

O Recognize impacts of timeliness on data.

O Identify examples of available data sources.

O Identify available data reports and mechanisms for report data.

What makes Data "Good"?

- O Accuracy
- O Completeness
- O Consistency
- O Context
- O Timeliness

Data Accuracy

O **Accurate**

    O Merriam-Webster Dictionary: "free from error especially as the result of care; conforming exactly to truth or a standard."

    O Accurate data requires consistent abstraction from charts.

    O ICD10 codes

O Inaccurate

    O Data entry issues & inconsistencies reported data and medical record

Data Completeness

O **Completeness**

O Full responses

O High validation scores

O NTDB wrench

O Opportunity in incomplete data...

O If not recorded, not reported. Don't make up information for the registry...it must come from a verifiable record.

O Conduct Performance Improvement (PI) if data is consistently missing from records.

Consistency in Data

O **Consistent**

  O Logical for a patient

  O Reported in the same manner regardless of institution or individual reporting

  O Reported based on element definition

O Inconsistent

  O 80 year old patient with a pediatric Glasgow Coma Scale

Context of Data

O **Context**

   O "The circumstances that form the setting for an event, statement, or idea, and in terms of which it can be fully understood and assessed." Merriam-Webster Dictionary

O Out of Context

   O Date of Birth: 4/19/2016

   O Age: 1

   O Age Unit: Year

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  O Age Unit: ~~Year~~ Month

Random Factoid

O "You eat like a bird." Commonly meaning you don't eat much...

O Data shows:

  O Birds eat 30-100% of their body weight in food every day.

  O An average human weighs 150 lbs. Daily food intake for a average human that "eats like a bird" would be 45-150 lbs. of food per day.

Timeliness

O **Timeliness impacts data quality**

   O Loss of detail with time

   O Difficult to make improvements after long periods of time from the incident

   O Trend analysis vs. Performance Improvement

Data Sources

O Center for Disease Control and Prevention

   O WISQARS (Web-based Injury Statistics Query and Reporting System) http://www.cdc.gov/injury/wisqars/

      O Fatal Injury Data

      O Nonfatal Injury Data

      O Violent Deaths

      O Cost of Injury Reports

      O Fatal Injury Mapping

Data Sources

O National Trauma Data Bank

https://www.facs.org/quality%20programs/trauma/ntdb

O Burden of Injury Report

https://idph.iowa.gov/Portals/1/Files/InjuryViolence/burden_of_injury_full_report.pdf

O Annual Trauma and EMS Reports

http://idph.iowa.gov/BETS/Trauma/data-registry

O IDPH EMS data registry

https://www.imagetrendelite.com/Elite/?organizationId=iowa

O IDPH Trauma Registry

https://patientregistry.imagetrend.com/iowa/default.cfm?page=login

Random Factoid

O Bloodletting was common practice for thousands of years.

O Evidence-based scrutiny showed it was detrimental to human survival.

Fundamental Data Requirements

O ED/Hospital Admission Date

O Discharge Date

O Injury fields

O Data dictionary will specify which fields are required

I have good data...Now What?
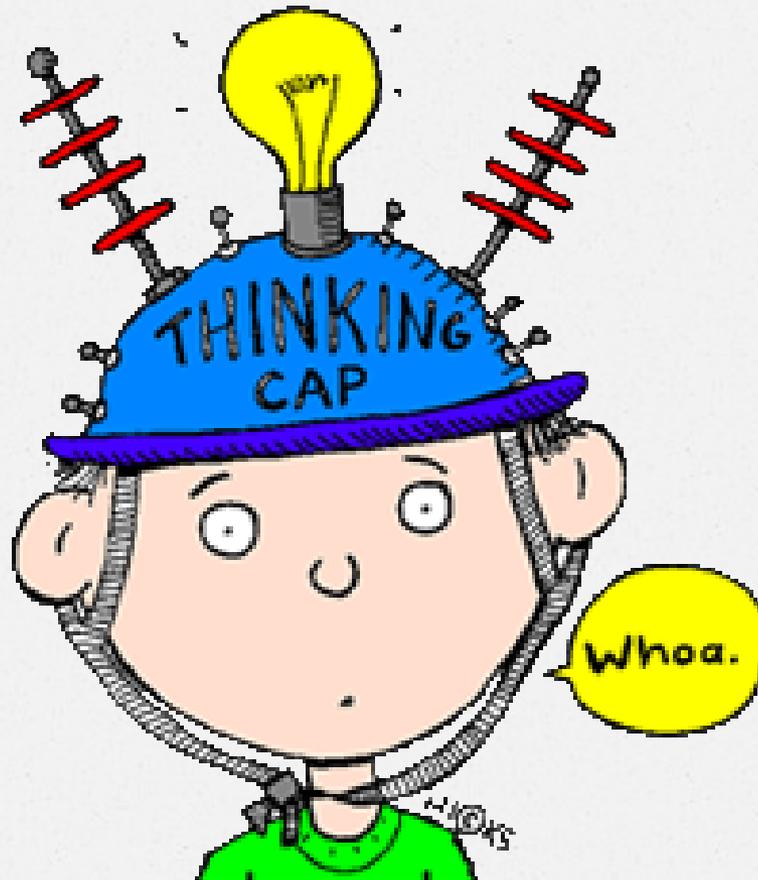
Hospital Data compared to State Data

O What would be useful?

O Example:
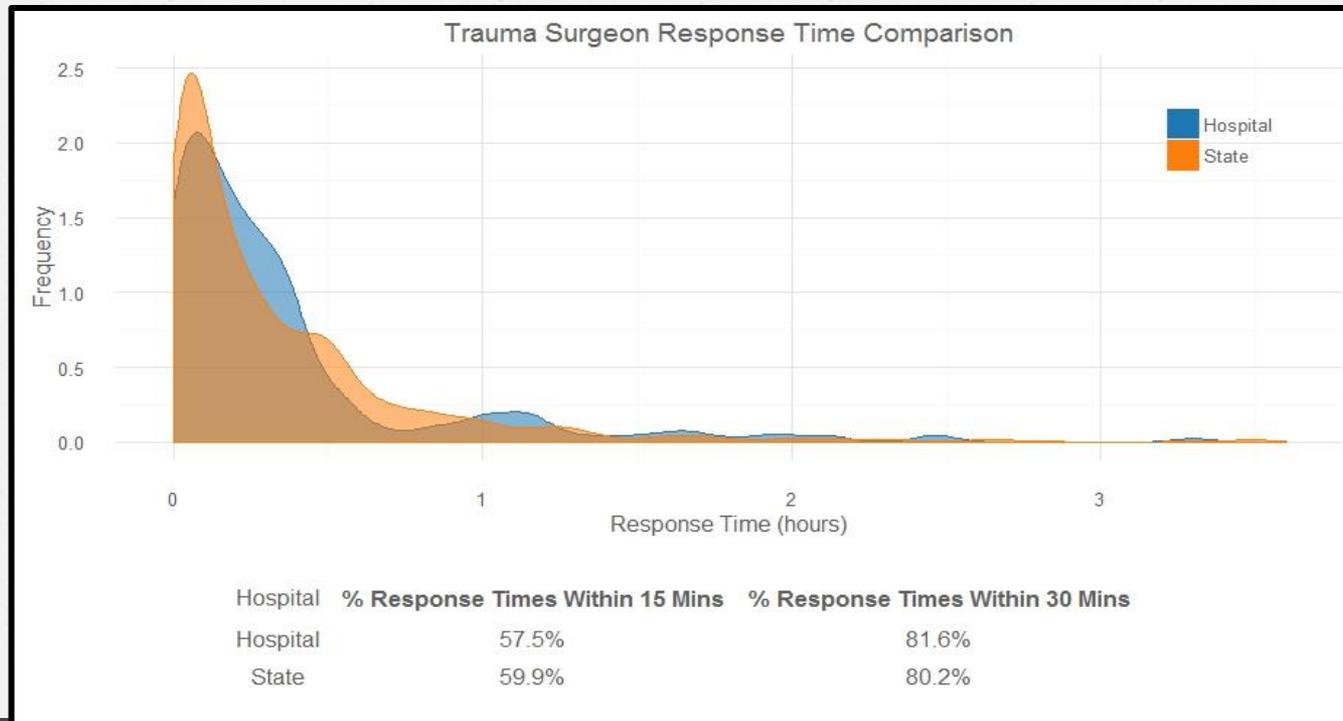
ImageTrend "Canned Reports"

O Verification reports

O Prepare for verification visits to avoid surprises

Custom ImageTrend Reports

O Create reports

O Online

   instructions

It's not what you can do for the registry; it's what the registry can do for you!

Conclusion

O Data drives action

O Data helps prove what works...and what doesn't

O Data helps explain programs, work, and services

O Data is powerful! Use it wisely!
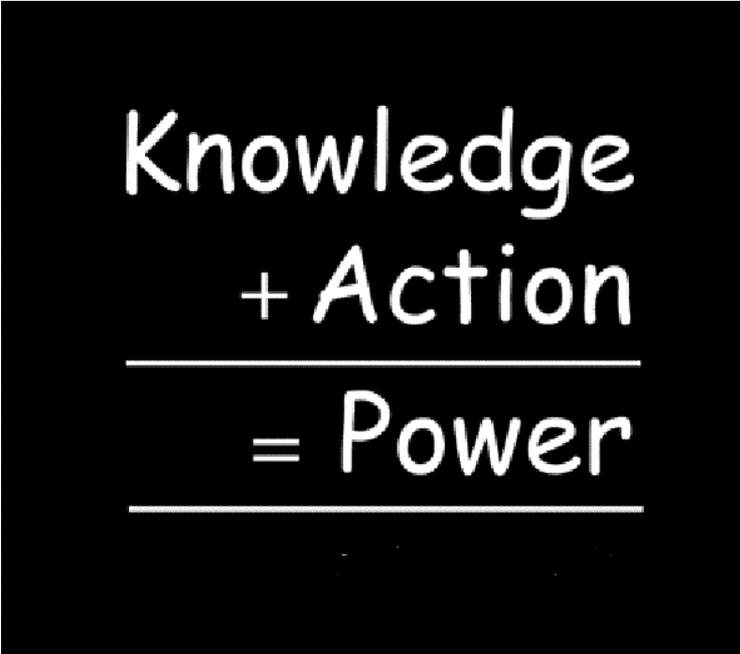
Knowledge + Action
= Power

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Questions