

Have any of you done validation of your trauma registry data? If so, can you share how you did it?

Question asked May 2016

Alaska

Our state has a validation schedule in place. We started by going 3 years of an external validation study with Pomphrey consulting, we completed inter-rater reliability on all facilities. This got them on board and helped us understand all the elements that folks struggle with or have consistent errors.

From this we created a list of items the state was going to review and the frequency.

We review at minimum of 10% of cases per month up to 100% for the smaller Level IV facilities with low volume. These are the registrars that need the most help because they have such small volume it is hard to become proficient.

New Mexico

The only validation that I do here in New Mexico is a report card to Trauma Centers on the following fields for each facility on a quarterly basis. Below is the aggregate. If they have more than 10% not valued, they have to go back and fix.

STATE TRAUMA REGISTRY FIELDS ANALYSIS - 1st & 2nd Qtr 2015		
TOTAL # OF PATIENT RECORDS 1575		
	No. of Records	Percent of Records
AGE	1572	99.8%
AGE NOT VALUED	3	0.2%
ISS VALUED	1525	96.8%
ISS NOT VALUED	48	3.0%
INJURY TYPE VALUED	1567	99.5%
INJURY TYPE NOT VALUED	8	0.5%
INJURY TYPE UNKOWN	3	0.2%
E CODES VALUED	1569	99.6%
E CODE NOT VALUED	6	0.4%
TRISS	1266	80.4%
TRISS NOT VALUED	309	19.6%
1ST ED GCS VALUED	1338	85.0%
1ST ED GCS NOT VALUED	237	15.0%
1ST ED GCS UNKOWN	111	7.0%
1st ED RR VALUED	1577	100.1%
1ST ED RR NOT VALUED	29	1.8%
1ST ED SBP VALUED	1520	96.5%

	No. of Records	Percent of Records
1ST_ED_SBP NOT VALUED	41	2.6%
1ST ED SBP UNK	30	1.9%
ETOH	1404	89.1%
ETOH NOT VALUED	157	10.0%
ETOH UNKNOWN	35	2.2%
RACE VALUED	1485	94.3%
RACE UNK	24	1.5%
RACE NOT VALUED	32	2.0%

I also do a report on all of the following entries for diagnosis.

Unspecified
Not Elsewhere Classifiable
Not Further Specified
Not Otherwise Specified
Ill Defined

When I do their verification survey, I bring this information to the survey and review it with the Trauma Registrar. That's it.

Each facility is encouraged to do their own validation and some use this formula.

Pennsylvania

Here is our answer from PA from Nathan McWilliams, our Director of Technology/Trauma Registry:

“The Registry Educational Visit is one way we validate the data and is the most direct because we have access to the medical record at that time. (These in-person visits are done every 2 years with accredited trauma centers and more frequently with hospitals pursuing accreditation.) Data is also validated via automatic electronic checks in the COLLECTOR software, manual checks during the processing of the data and through visual checks when we use the data internally and when we benchmark the data quarterly.”

Tennessee

My registrar did field completion percentages to at least get a start on the problem with reporting. We've been gradually whittling away at the low reporting percentages.