

Data Quality of EMS Data- 2013

Texas' EMS & Trauma Registries (ETR)

Prakash S. Patel, MD, MPH

Injury Epidemiologist

Injury Epidemiology & Surveillance Branch,
EEDRS/DSHS

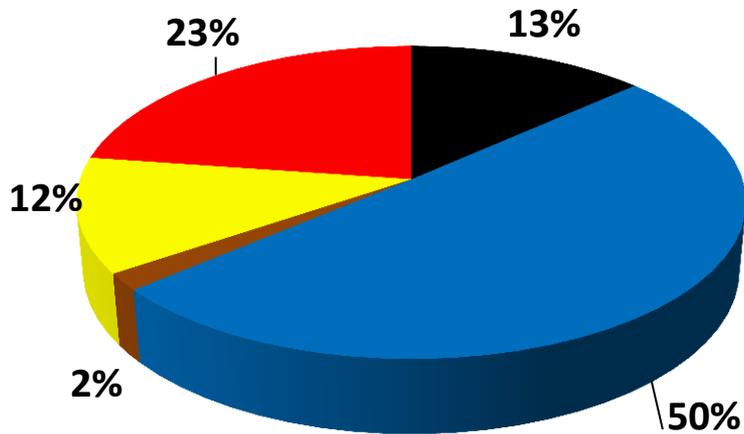
ETR- 2013 EMS Data Quality

- Key attributes of effective surveillance systems identified by CDC are:
 - **usefulness**
 - **sensitivity**
 - **timeliness**
 - **stability**
 - **simplicity**
 - **flexibility**
 - **acceptability**
 - **data quality**
 - **positive predictive value**
 - **Representativeness**
- Of these attributes, usefulness, sensitivity, timeliness, and stability are the most critical to the success of the surveillance system.
- Simplicity, acceptability, and flexibility will affect the establishment and sustainability of the surveillance system.
- Data quality, positive predictive value, and representativeness are central to accurately characterizing health-related events under surveillance.

Data Validity (EMS Data -2013)

Call Type

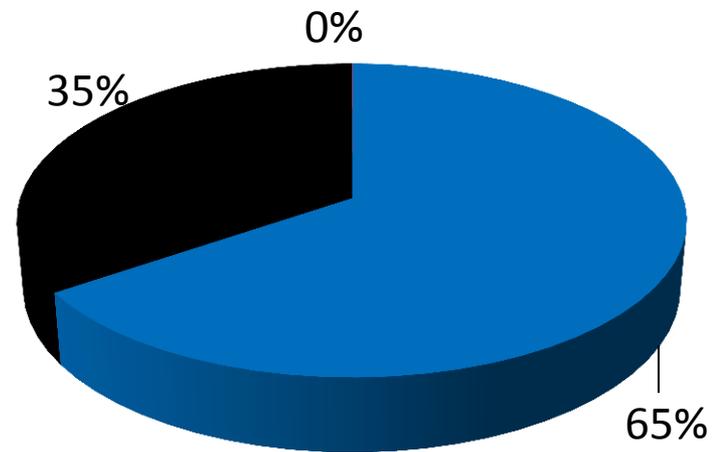
N=2646330, Missing=229



- Trauma
- Medical Trauma
- Not Recorded
- Medical
- Not Applicable

Call Type

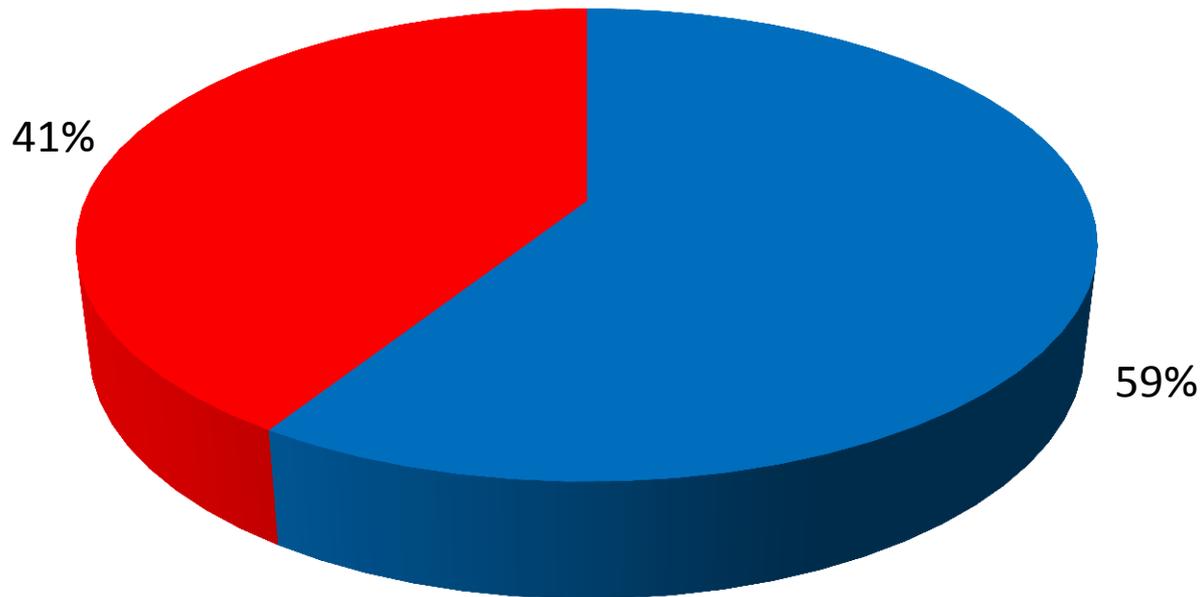
N=132796



- Valid
- Valid Null
- Null

Data Validity (EMS Data -2013) Cause of Injury (Trauma Only)

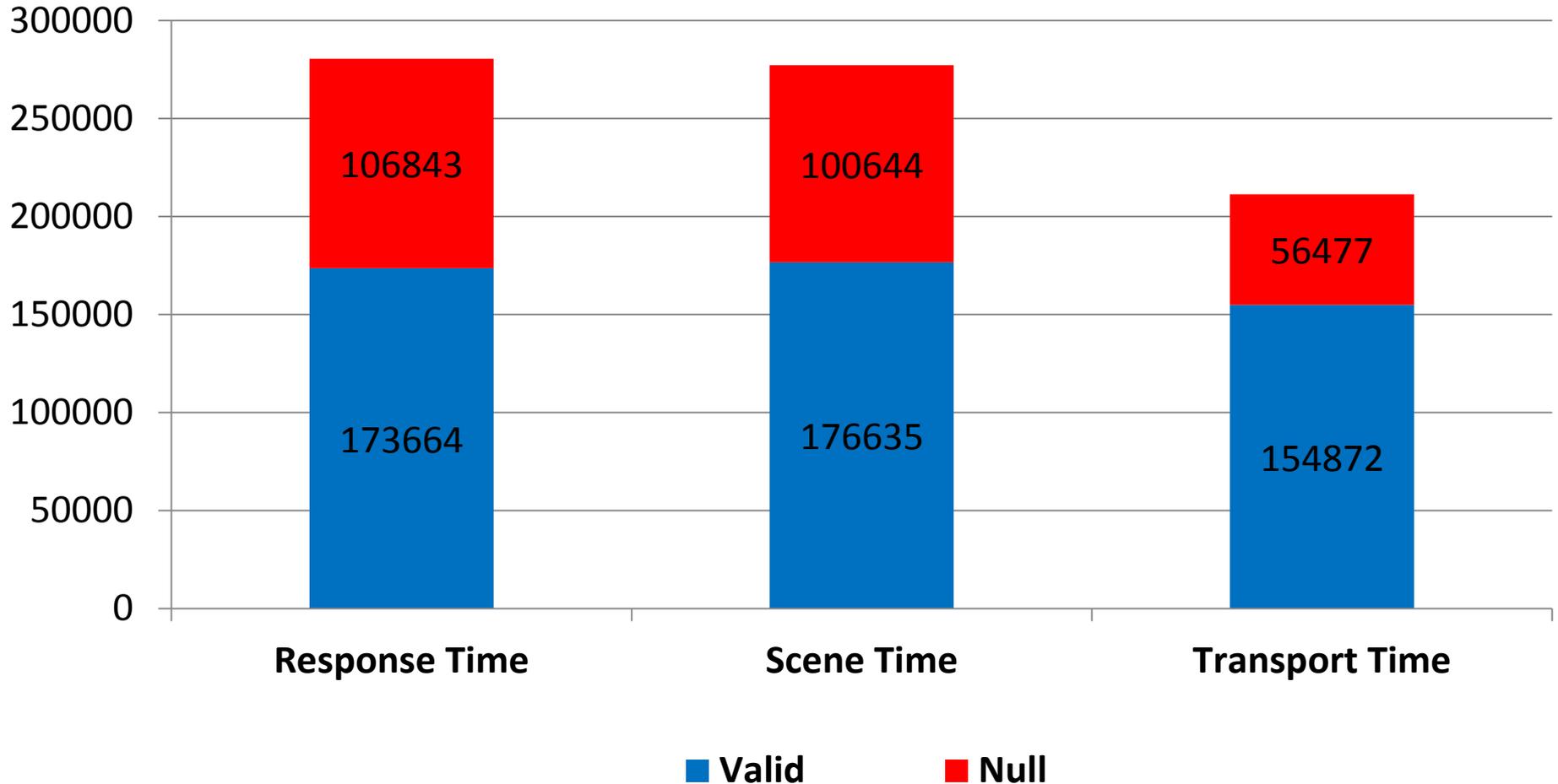
N= 351708



■ Valid ■ Null

Data Validity (EMS Data -2013)

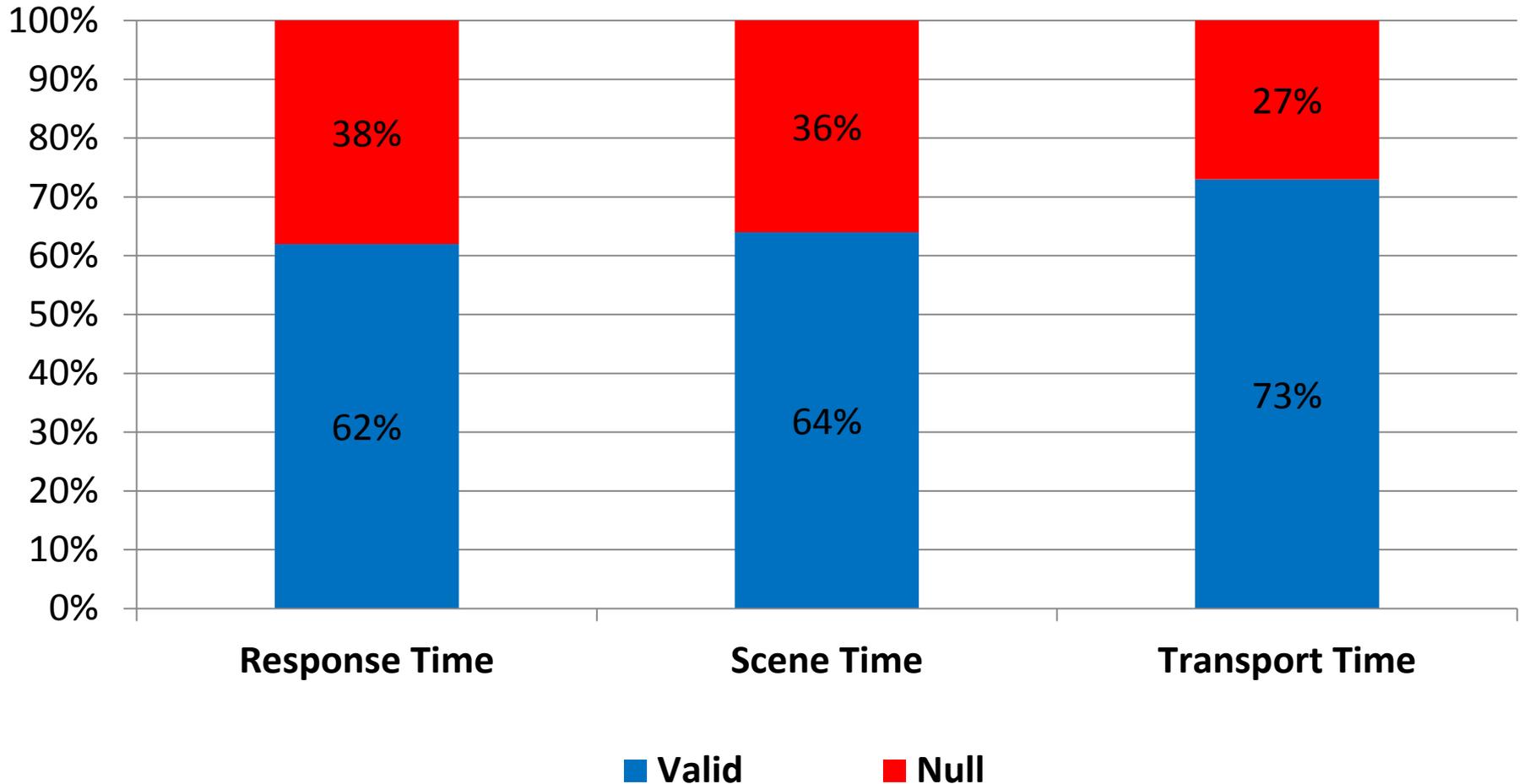
Response Time, Scene Time & Transport Time



EMS runs for Trauma with 911 response by Ground Ambulance

Data Validity (EMS Data -2013)

Response Time, Scene Time & Transport Time



EMS runs for Trauma with 911 response by Ground Ambulance

ETR- 2013 EMS Data Quality

- Again, Data completeness and data accuracy are essential elements of any surveillance system.
- Injury Program (EMS & Trauma Registries - ETR) is yours as you are the people who provide data to keep it alive & active.
- Not to provide complete & accurate (insufficient) data is a missed opportunity for you to contribute in the improvement of Public Health.
- Integrated approach is important for the program to perform at its best potential, for which contribution from all the stakeholders is very important.