Indiana Trauma Registry

Monthly Report for November 2014

On November 7th, Murray Lawry (EMS Registry Manager) trained four EMS personnel on the EMS registry at the Indiana State Department of Health (ISDH).

On November 14th, Camry Hess (Database Analyst) presented the trauma registry data report and the bi-monthly EMS registry report at the Trauma Care Committee meeting at the ISDH.

On November 14th, Camry Hess and Ramzi Nimry (Trauma Registry Manager) attended and presented the results of the ITN quiz and a performance improvement update at the Indiana Trauma Network meeting at the ISDH.

The 2013 data presented in this report is now complete.

The Indiana Trauma Registry (ITR) monthly report is a dashboard style report for the Indiana Criminal Justice Institute (ICJI) and any other party concerned about trauma in Indiana. This report highlights the four data quality measures for the ICJI grant: completeness, timeliness, uniformity, and integration. This report uses data within the ITR, with an emphasis on motor vehicle collisions (MVC).

Completeness

The Hospital Discharge database, also maintained by the ISDH, contains all records of patients cared for in Indiana hospitals. We compared patient records from the ITR with the Hospital Discharge database to know how complete is the ITR's data. 2014 Hospital Discharge data is not available to the ISDH at this time.
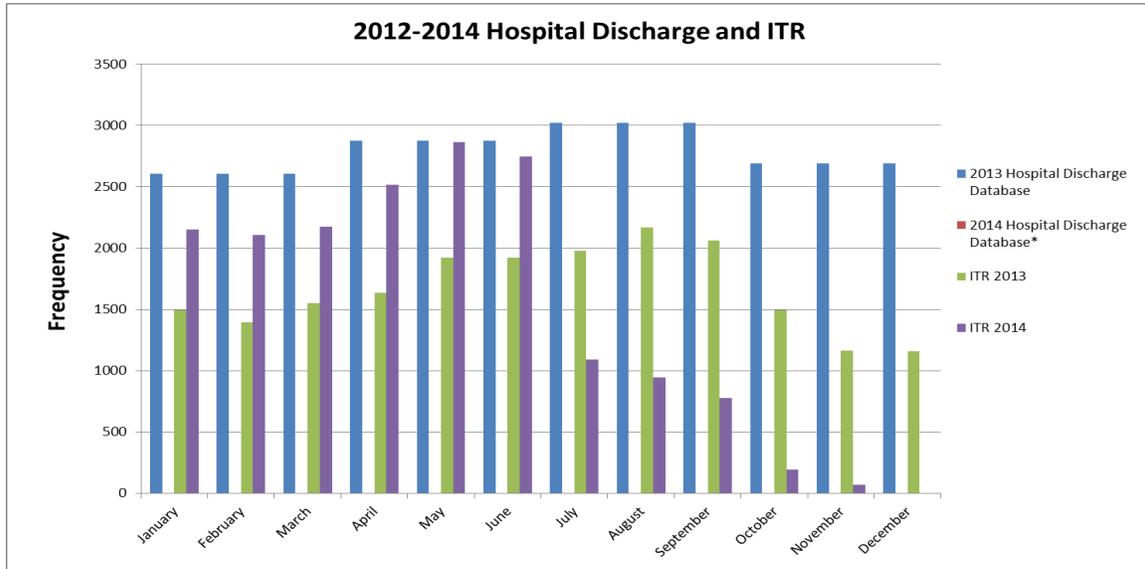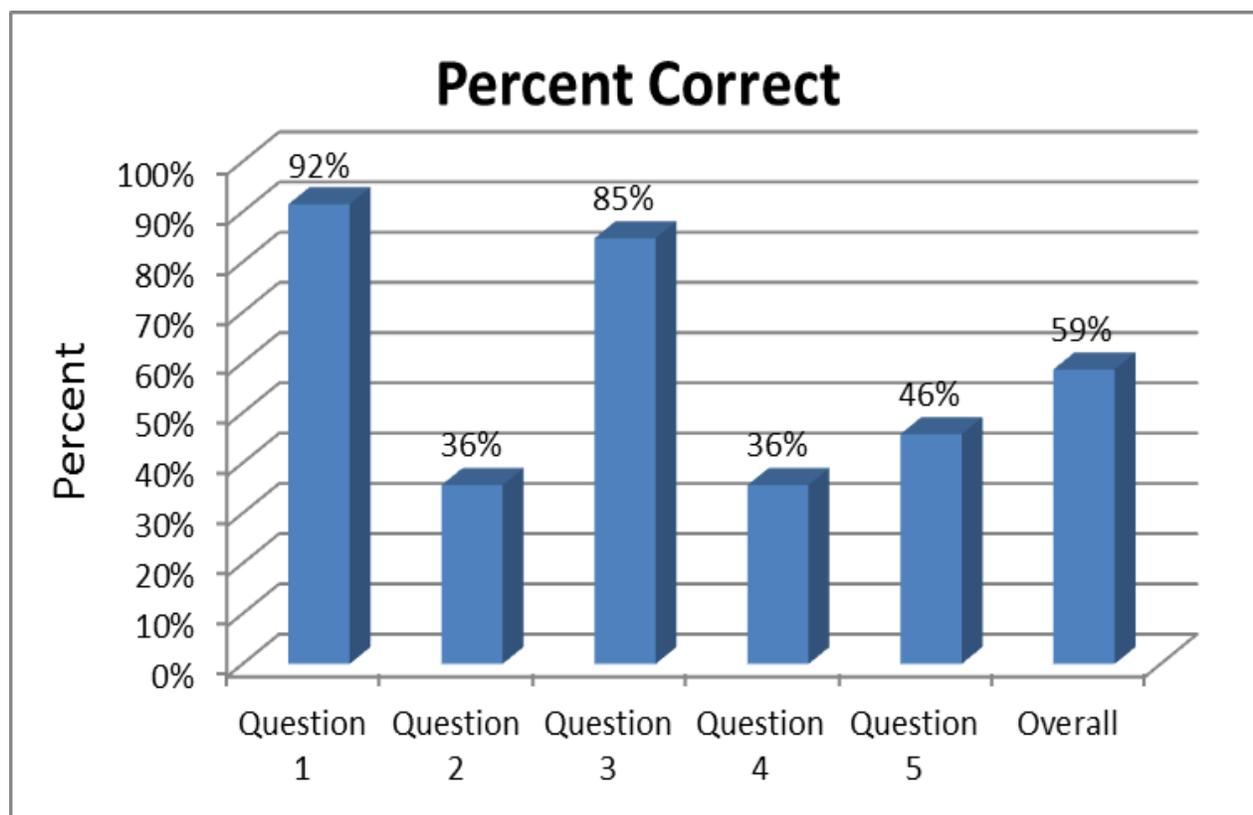

Timeliness increases as facilities wait until the data submission deadline to submit data to the ITR. Hospitals are asked to report data on the national trauma (TQIP) reporting schedule.

The decrease in timeliness from July 2014 until November 2014 is due to only timely reports being provided to the ITR during this time frame, typically from non-trauma hospitals and early reporting trauma centers.
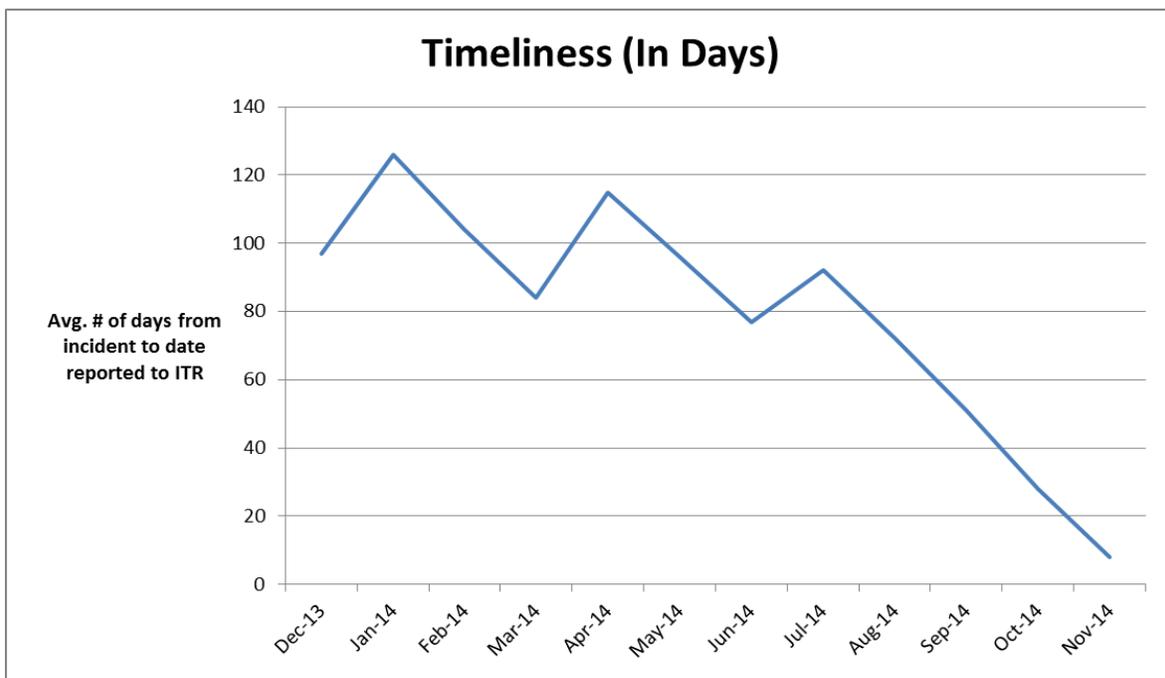
Uniformity

In November we sent out the ninth monthly quiz for the inter-rater reliability study. Fifty-nine registrars completed the quiz from 45 hospitals. The percent of correct answers was 59% for the entire quiz and the average free-marginal Kappa (measure of consistency) 0.27. We plan to collect data for four months and track trends in percent of correct answers by individuals and as a group over time as well as their consistency. Other activities to improve the uniformity of data includes trauma registrar training throughout the state and at the Indiana State Department of Health.

Percent Correct

Bar chart — Percent Correct:
- Question 1: 92%
- Question 2: 36%
- Question 3: 85%
- Question 4: 36%
- Question 5: 46%
- Overall: 59%

Integration

The percent of linked trauma cases that were transported by EMS services was 37.2%. This percent is calculated on a quarterly basis. This percentage is part of the baseline measurement from which we will track changes over the next year.
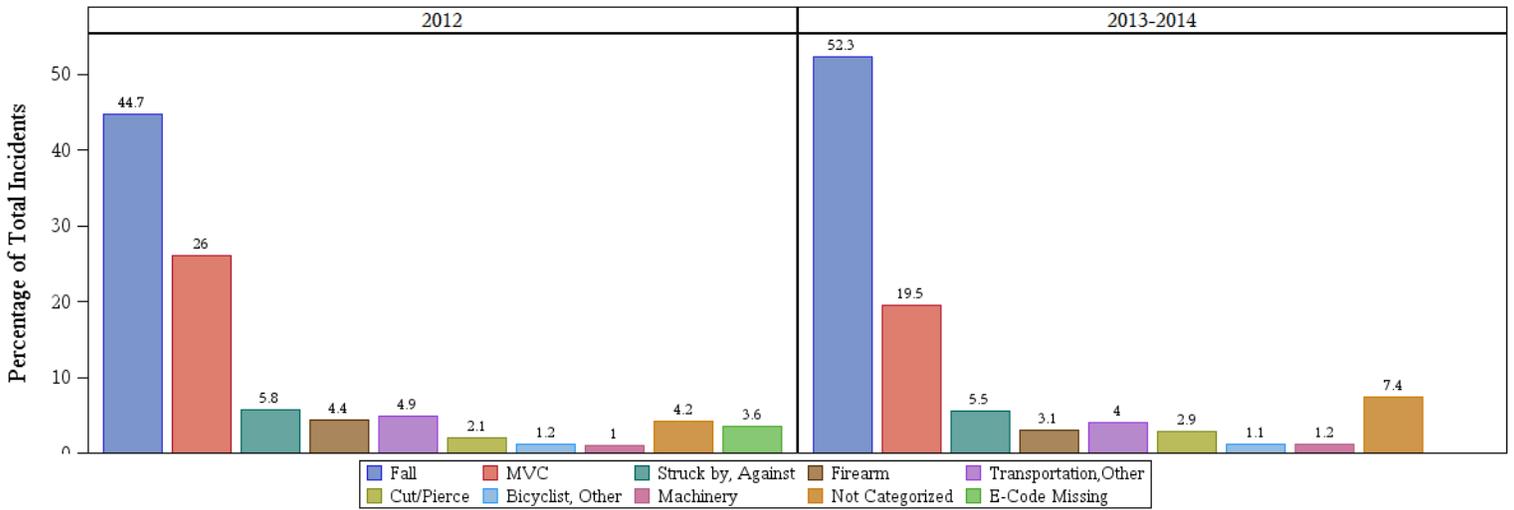
<1% of COI: Pedestrian (Other), Natural/Environmental, Overexertion, Fire/Burn, and Bites/Stings

COI-Motor Vehicle Collision (MVC)
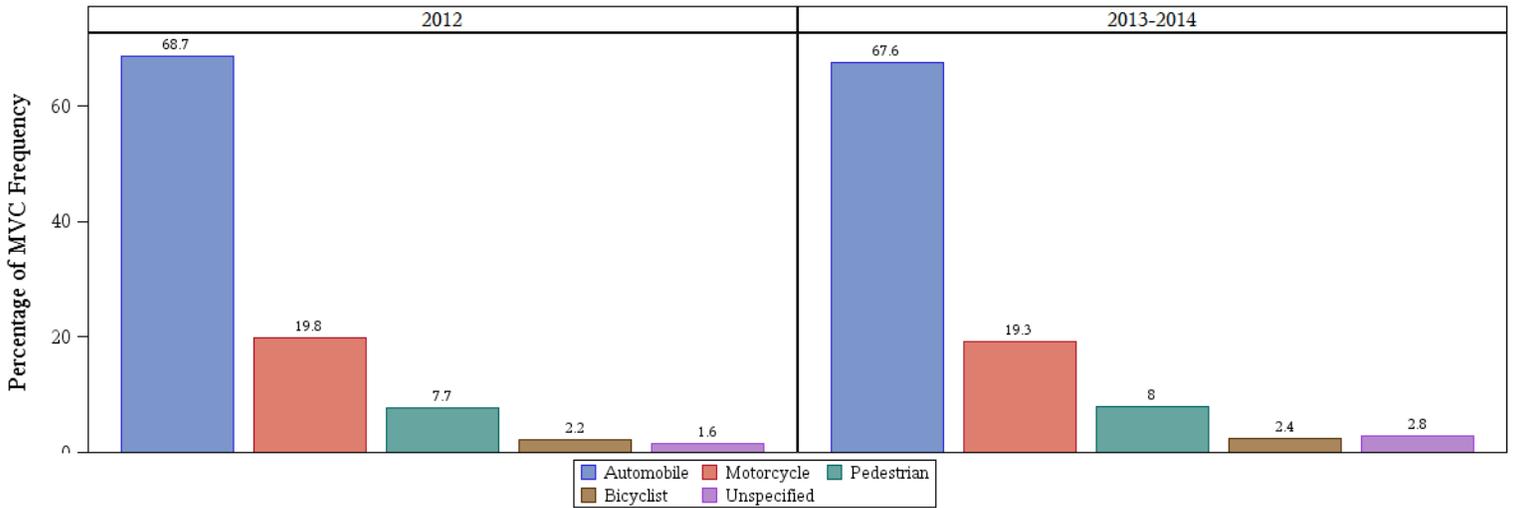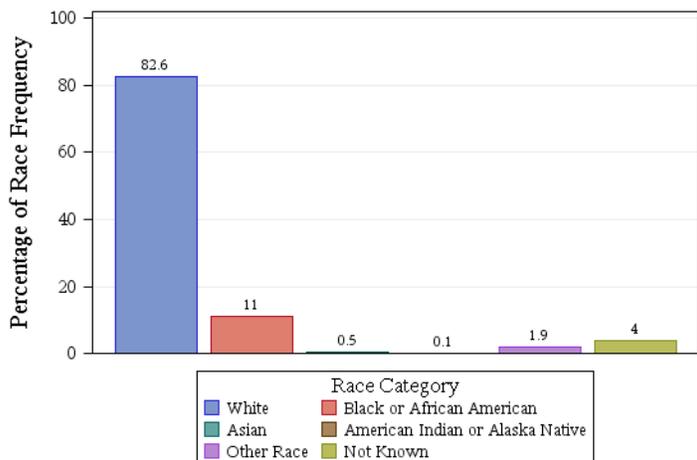

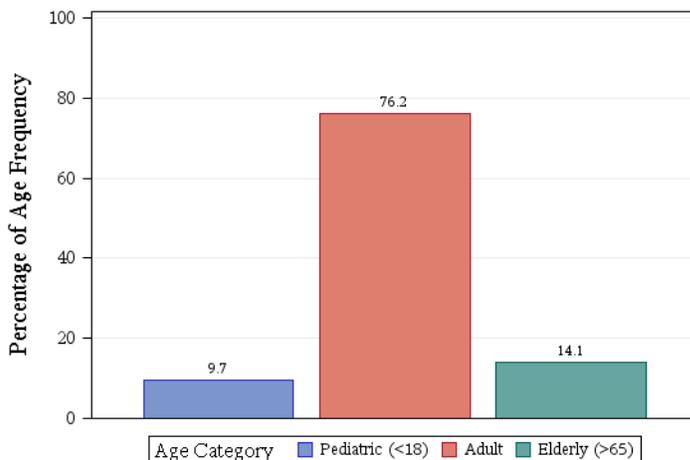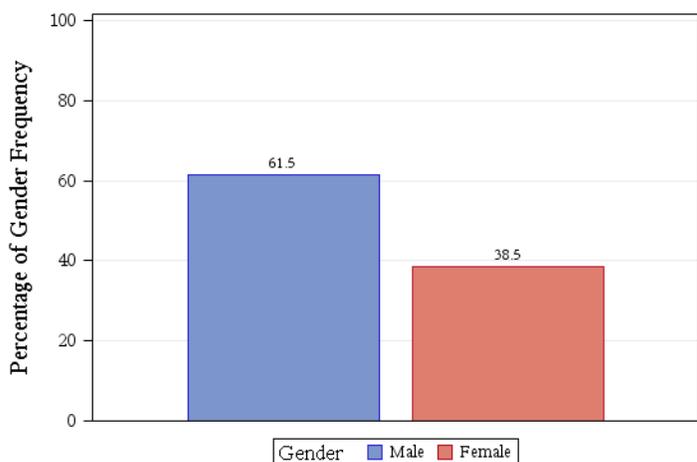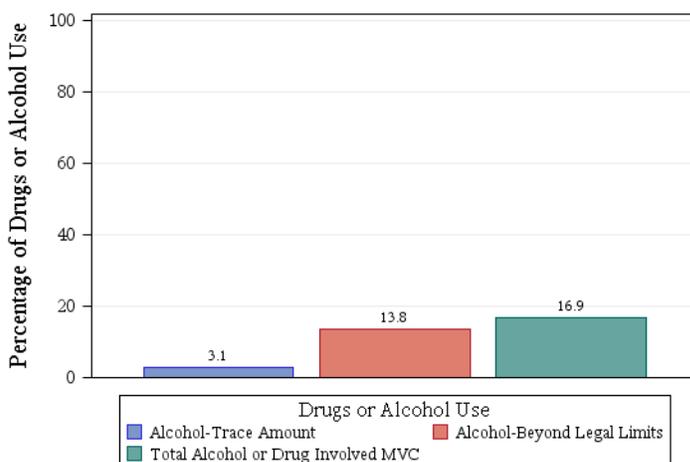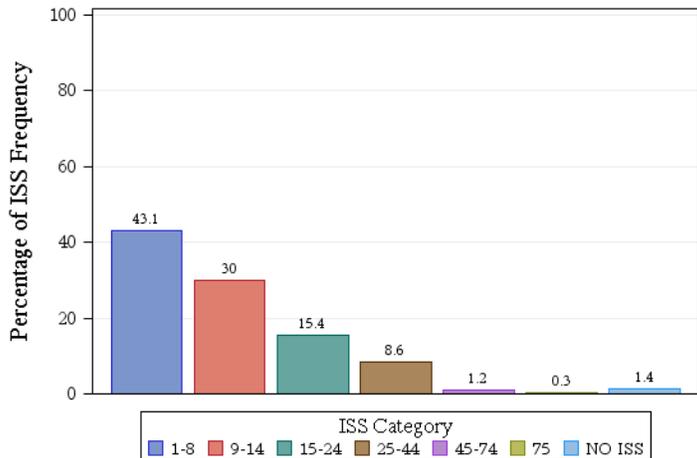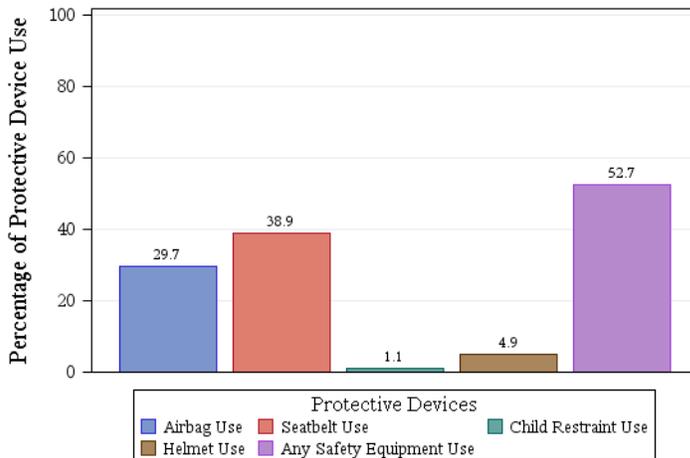## COI-MVC Nonfatal Incidents and Fatal Incidents
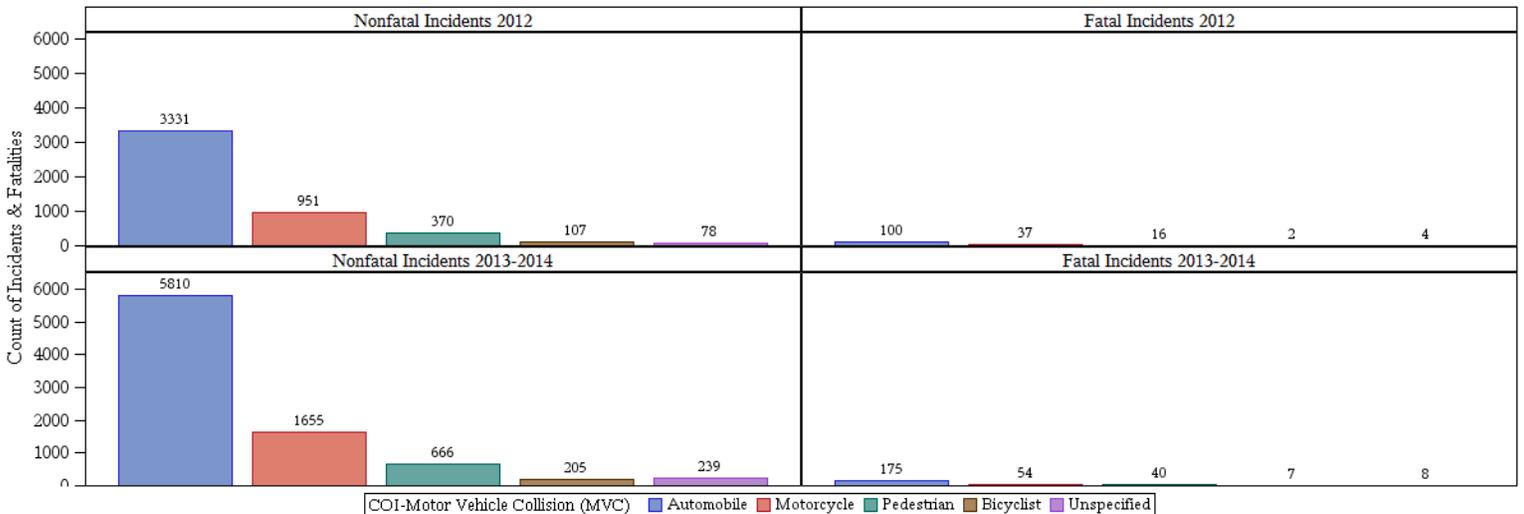
Race

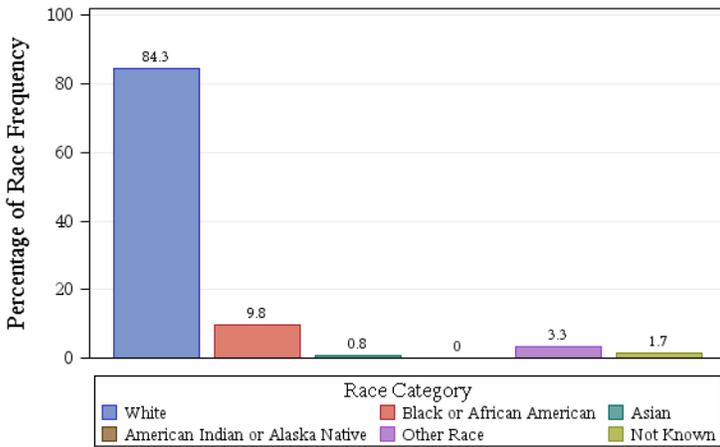

Age

Gender

Drug & Alcohol Use
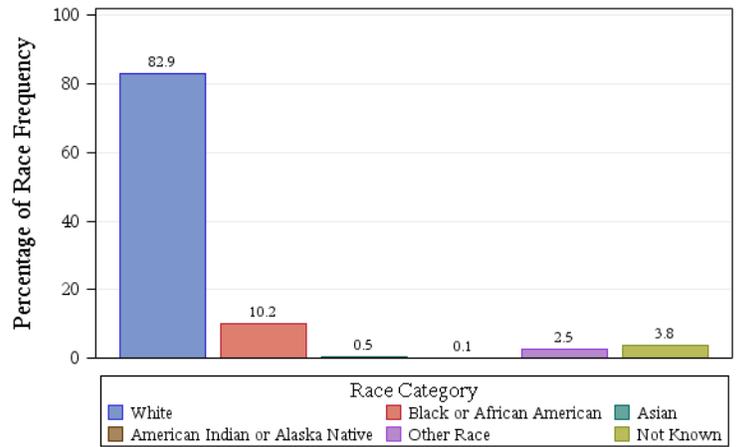

Injury Severity Score

Injury Severity Score (ISS) is a measure of how bad the injury is. Scores over 15 are considered major trauma. A score of 75 is considered not survivable.
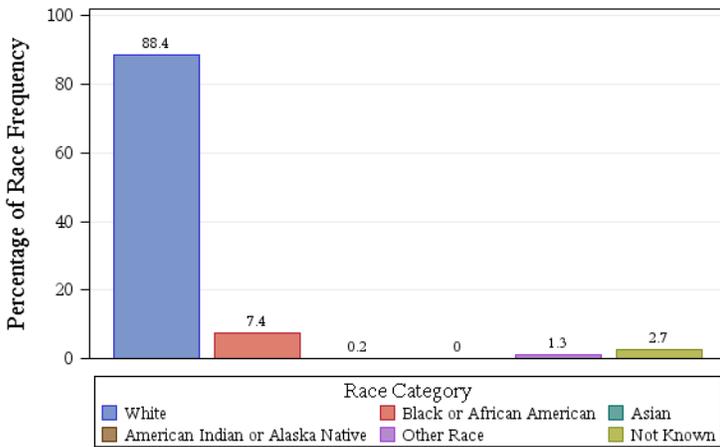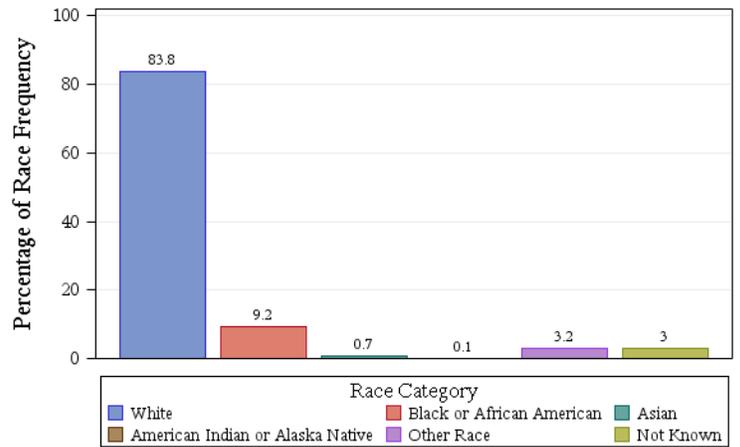
Protective Devices
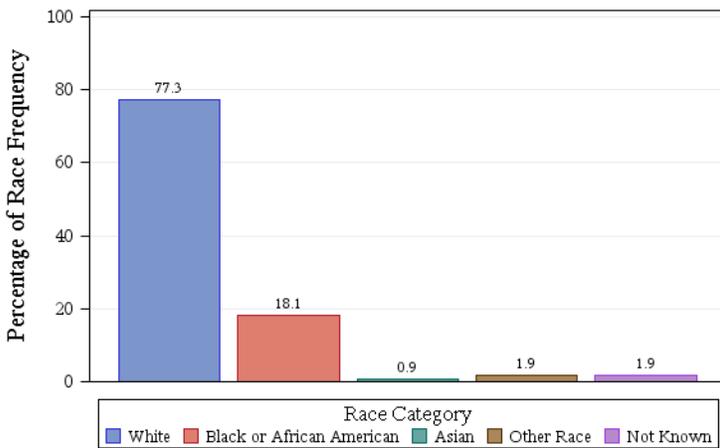
Race- Motor Vehicle Collision

2012

Percentage of Race Frequency

84.3
9.8
0.8
0
3.3
1.7

Race Category
White | Black or African American | Asian
American Indian or Alaska Native | Other Race | Not Known

2013-2014

Percentage of Race Frequency

82.9
10.2
0.5
0.1
2.5
3.8

Race Category
White | Black or African American | Asian
American Indian or Alaska Native | Other Race | Not Known

Motorcycle
2012-2014

Percentage of Race Frequency

88.4
7.4
0.2
0
1.3
2.7

Race Category
White | Black or African American | Asian
American Indian or Alaska Native | Other Race | Not Known

Automobile
2012-2014

Percentage of Race Frequency

83.8
9.2
0.7
0.1
3.2
3

Race Category
White | Black or African American | Asian
American Indian or Alaska Native | Other Race | Not Known

Bicyclist
2012-2014

Percentage of Race Frequency

77.3
18.1
0.9
1.9
1.9

Race Category
White | Black or African American | Asian | Other Race | Not Known

Pedestrian
2012-2014

Percentage of Race Frequency

70.7
22.4
0.8
0.1
2.9
3

Race Category
White | Black or African American | Asian
American Indian or Alaska Native | Other Race | Not Known

2012

2013-2014

Motorcycle
2012-2014

Automobile
2012-2014

Bicyclist
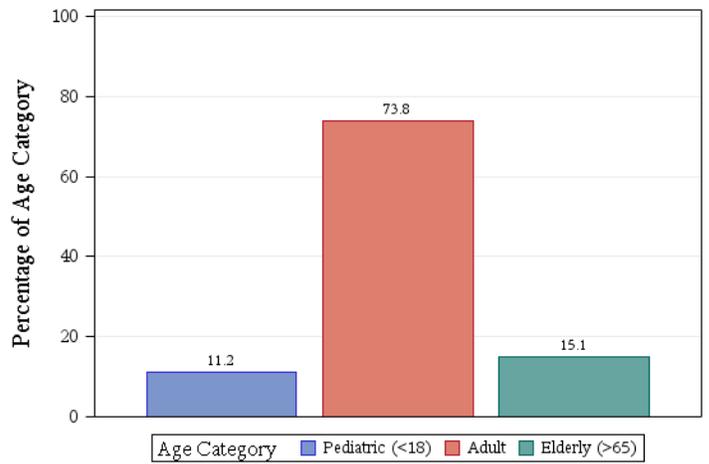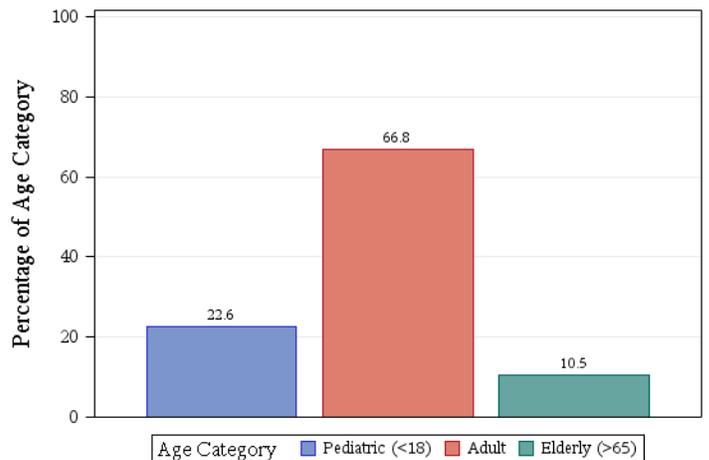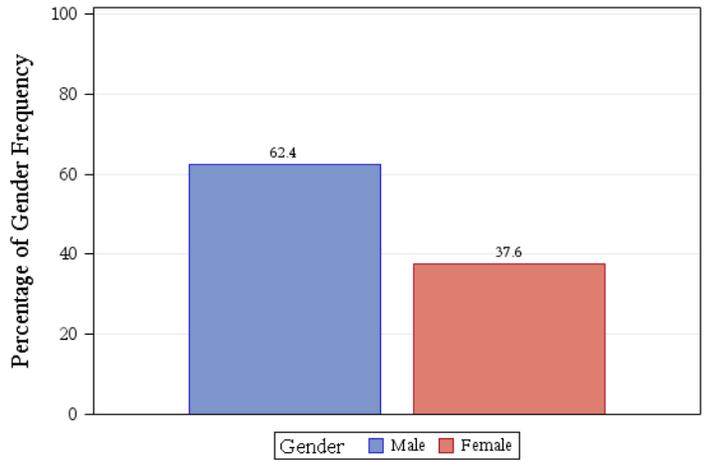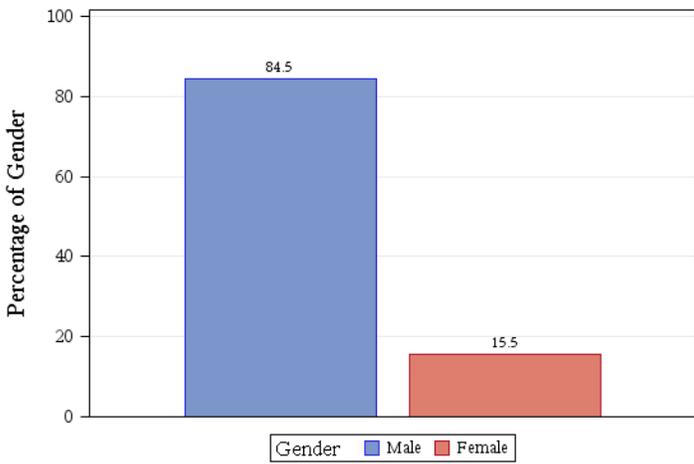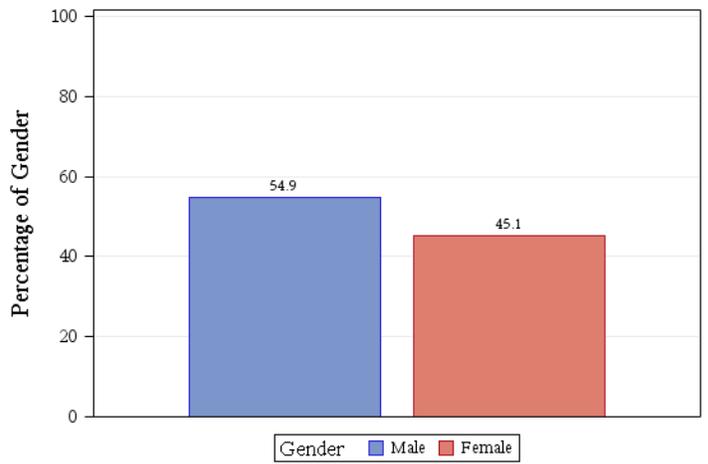**2012-2014**

Pedestrian
2012-2014

2012

2013-2014

Motorcycle
2012-2014

Automobile
2012-2014

Bicyclist
2012-2014

Pedestrian
2012-2014

2012

2013-2014
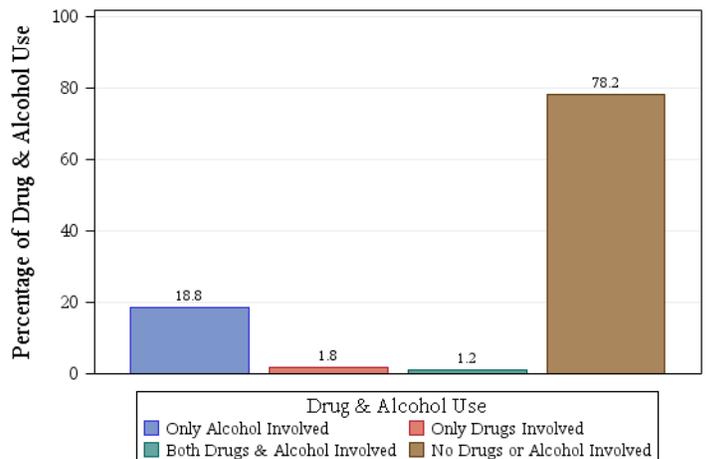

Motorcycle
2012-2014

Automobile
2012-2014

Bicyclist
2012-2014

Pedestrian
2012-2014

January 2012 to November 2014   13855 Incidents
Injury Severity Score- Motor Vehicle Collision
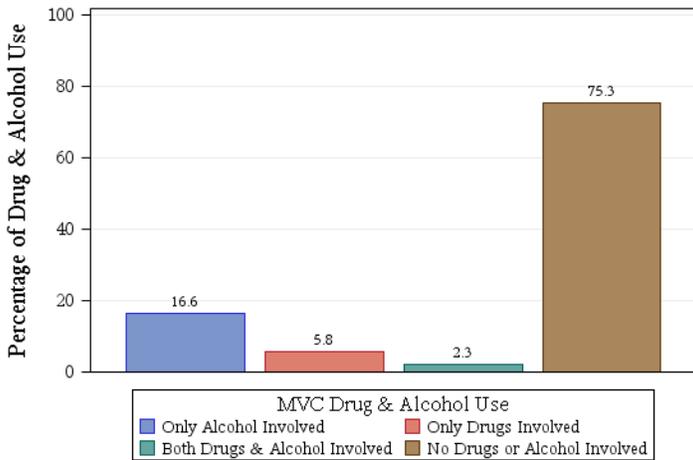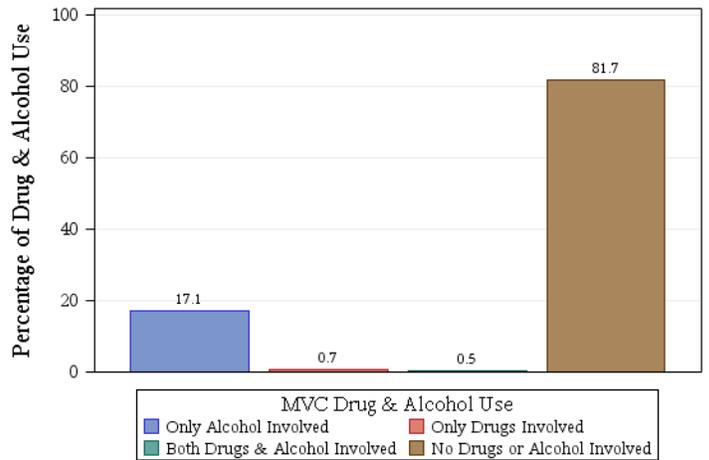
2012

2013-2014

Motorcycle
2012-2014

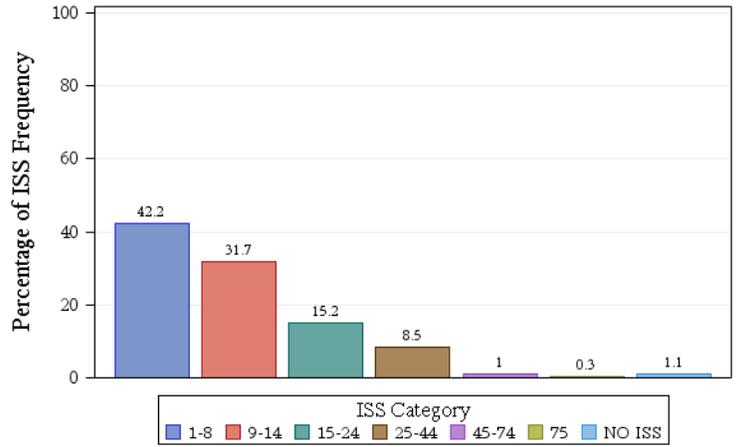## Automobile
2012-2014

Bicyclist
2012-2014
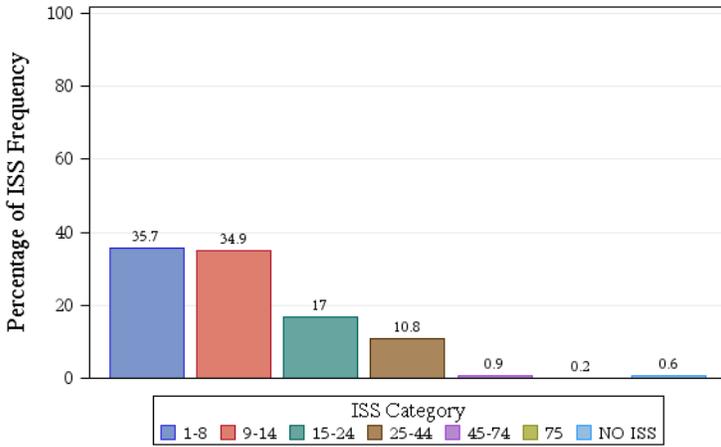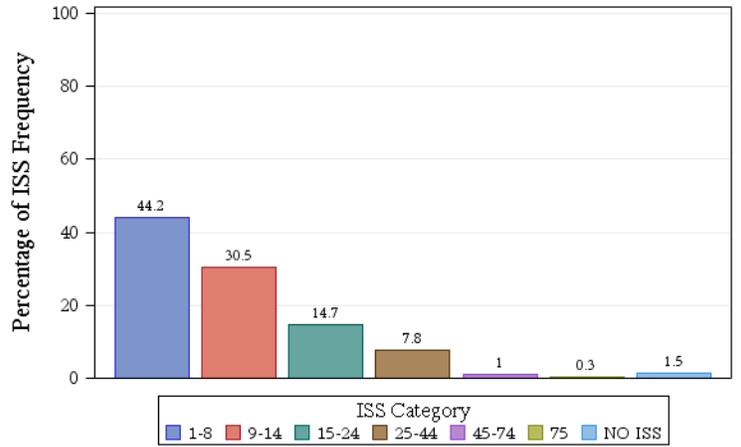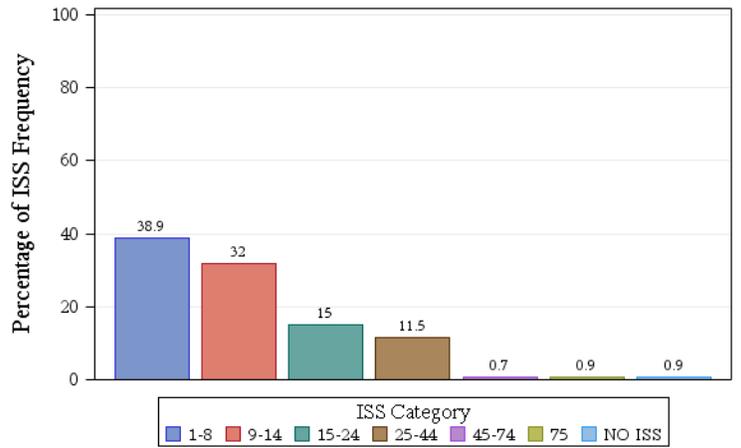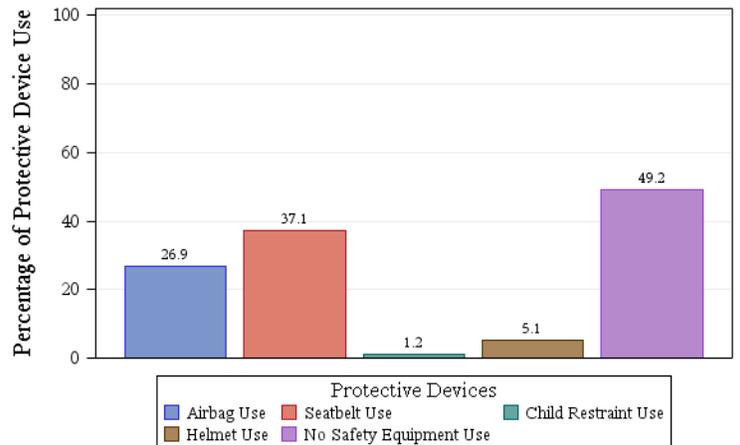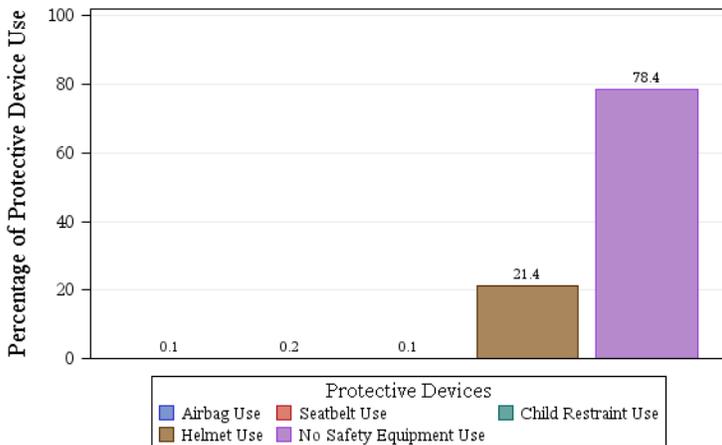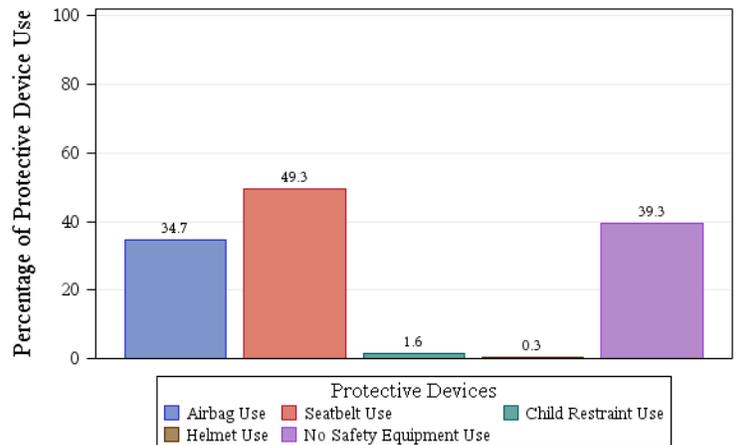

Pedestrian
2012-2014

Protective Devices- Motor Vehicle Collision
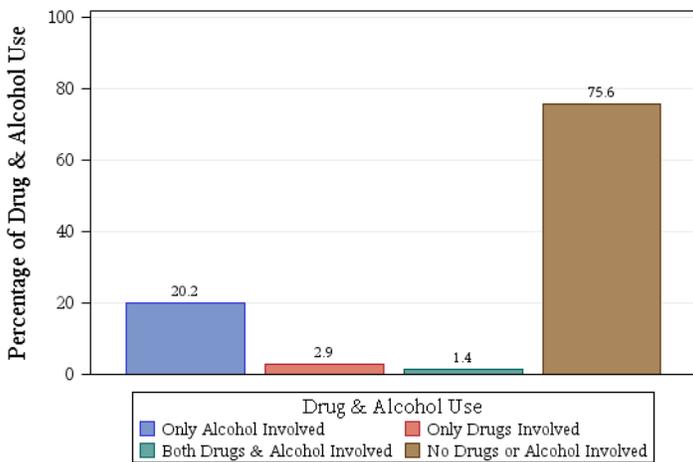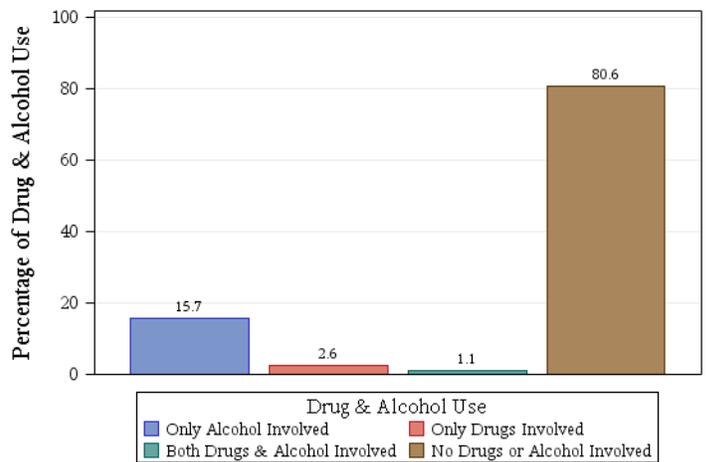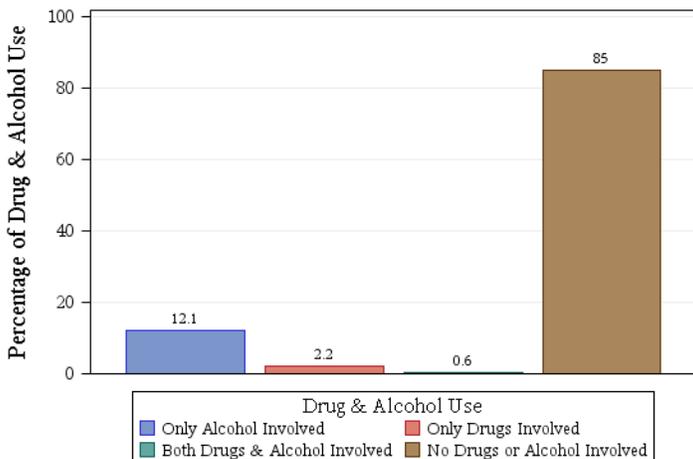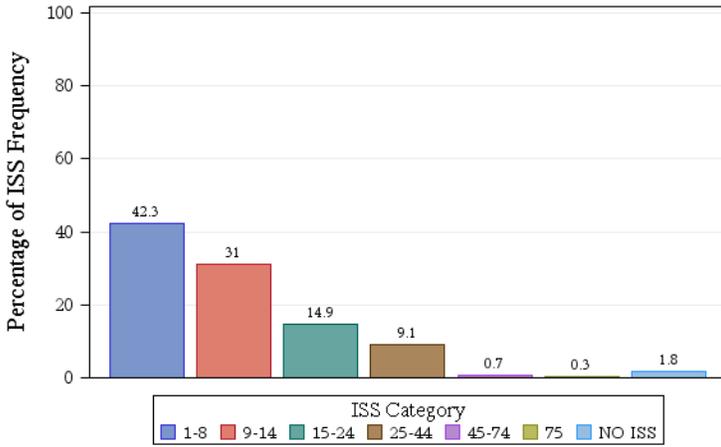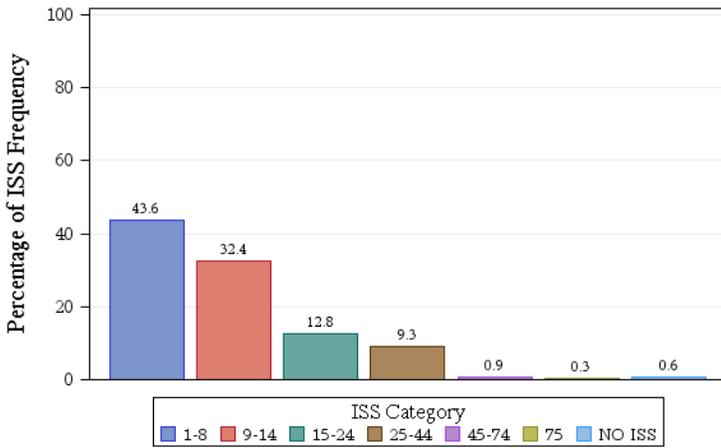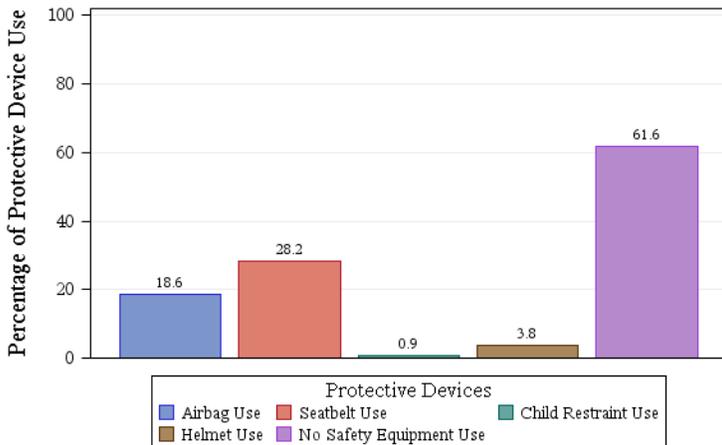
2012

2013-2014
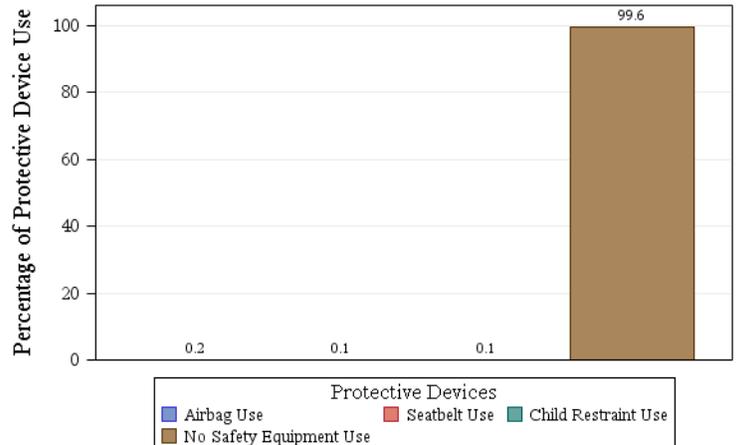

Motorcycle
2012-2014

Automobile
2012-2014

Bicyclist
2012-2014
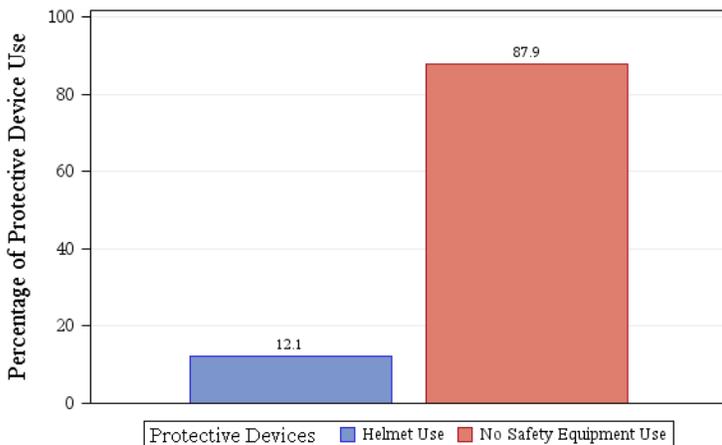
Pedestrian
2012-2014

Indiana Trauma Registry, December 1, 2013 - November 30, 2014
MVC involving Drugs or Alcohol By Public Health Preparedness Districts

Percentage of MVC involving Drugs or Alcohol

State Average	District 1	District 2	District 3
District 4	District 5	District 6	District 7
District 8	District 9	District 10	

State Average: 3.1, 13.8
District 1: 4.5, 21.1
District 2: 2.5, 17.2
District 3: 2.3, 16.1
District 4: 1.5, 15
District 5: 1.4, 17.5
District 6: 3, 8.8
District 7: 2.7, 14.3
District 8: 2.9, 9.4
District 9: 1.8, 10.6
District 10: 6, 7.6

MVC involving Drugs or Alcohol   ■ Alcohol-Trace Amount   ■ Alcohol-Beyond Legal Limits