From August 4 to 8, Ramzi Nimry (Trauma and Injury Prevention Program Director) was in charge of site supervision of the NW region's coronavirus drive thru testing site at St. Timothy Community Church in Gary.

On August 21, Ramzi Nimry (Trauma and Injury Prevention Program Director) and Trinh Dinh (Data Analyst) attended the Indiana State Trauma Care Committee (ISTCC) held virtually.
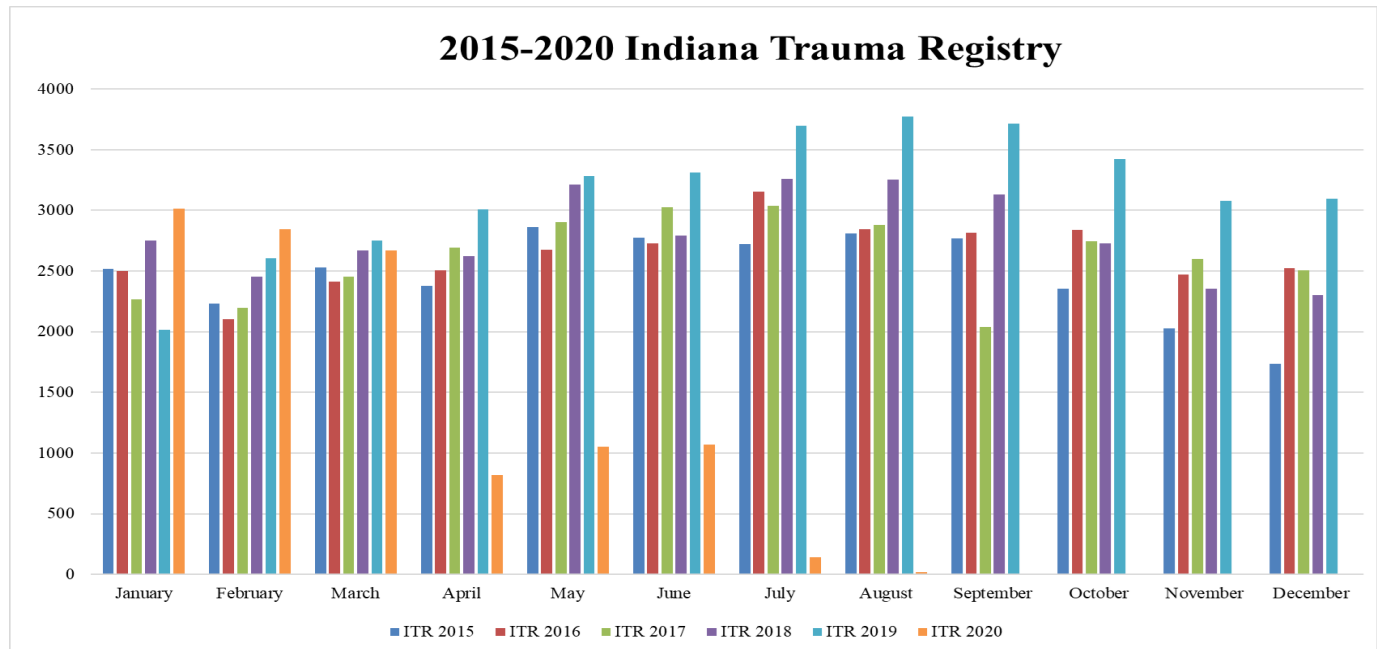
On August 21, Ramzi Nimry (Trauma and Injury Prevention Program Director) and Trinh Dinh (Data Analyst) attended the Indiana Trauma Network (ITN) held virtually.

On August 25, Ramzi Nimry (Trauma and Injury Prevention Program Director) trained Floyd County on the Indiana Coroner Case Management System (CCMS).

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, integration and accessibility.  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.  The hospital discharge database is 72% complete.



**2015-2020 Indiana Trauma Registry**

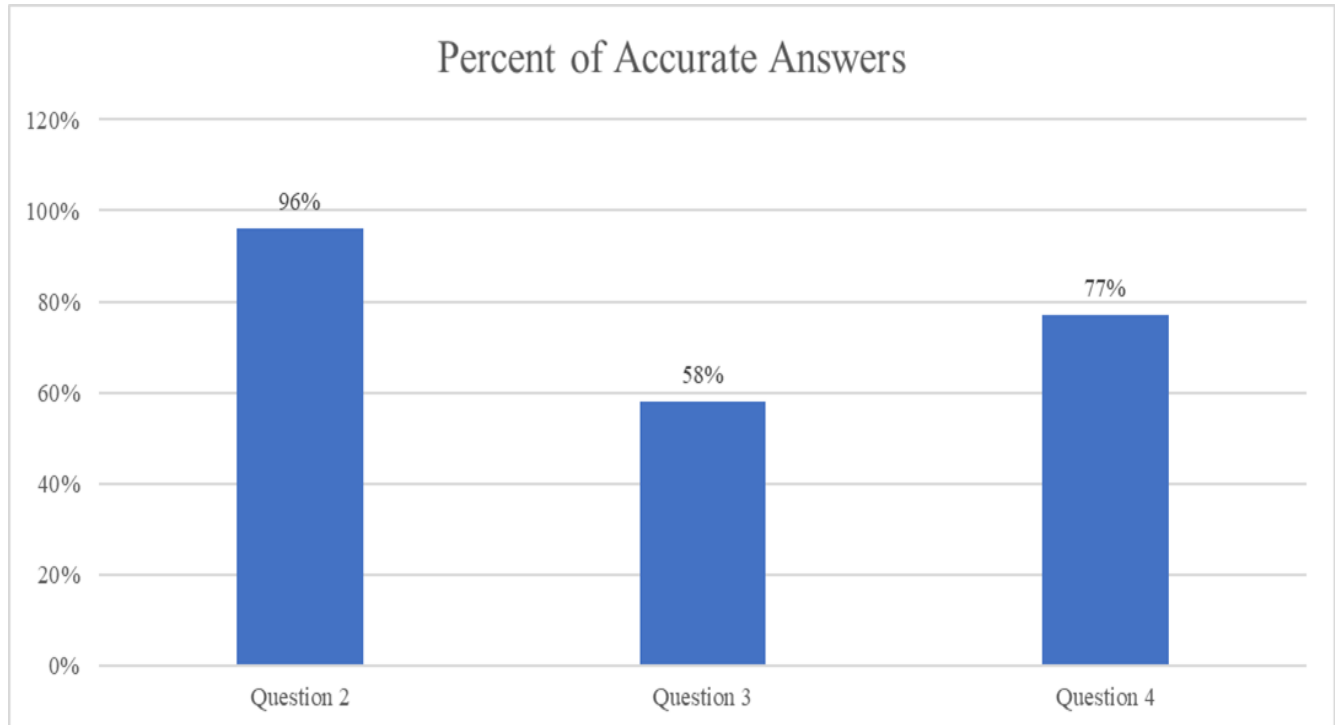Legend: ITR 2015, ITR 2016, ITR 2017, ITR 2018, ITR 2019, ITR 2020

## Timeliness

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 average timeliness in the past year was 115 days.



**Timeliness (In Days)**

Average # days from date incident reported to date reported to ITR
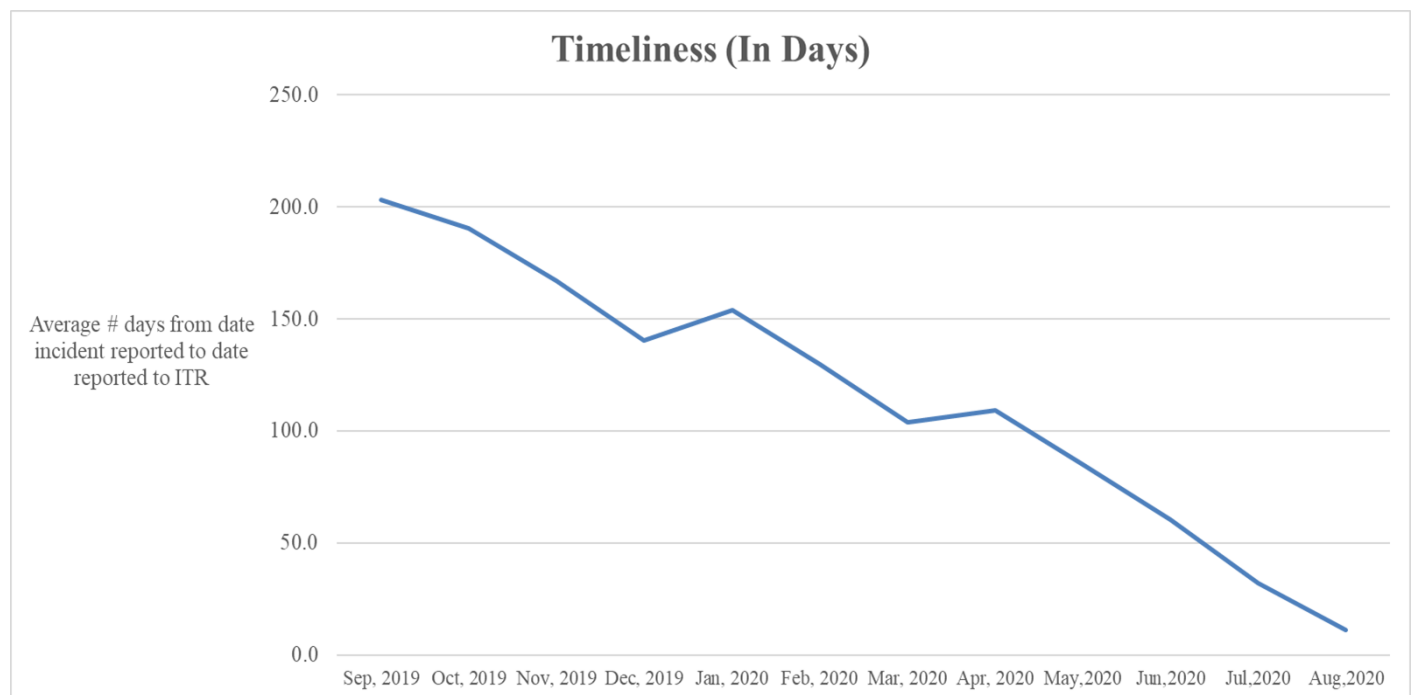
## Uniformity

In August, there were 24 participants from 20 (16% of hospitals with EDs in Indiana) hospitals who completed the quiz. The percent correct was 65% and the free-marginal kappa was 0.42.

Activities to improve the uniformity of data include trauma registrar training throughout the state and at the Indiana State Department of Health.

### Percent of Accurate Answers

| Question | Percent |
|----------|---------|
| Question 2 | 96% |
| Question 3 | 58% |
| Question 4 | 77% |

## Integration

The number of linked EMS to trauma cases was 1,639 for Q3 2018 data. Trauma data are due on a quarterly basis.

## Accessibility

There was 1 aggregate requests (2 day on average) in August. There were no identifiable data requests.

# August 2020 Indiana Trauma Registry Report
## Overall Cause of Injury (COI)

**September 2019 - August 2020:**   25192 Incidents
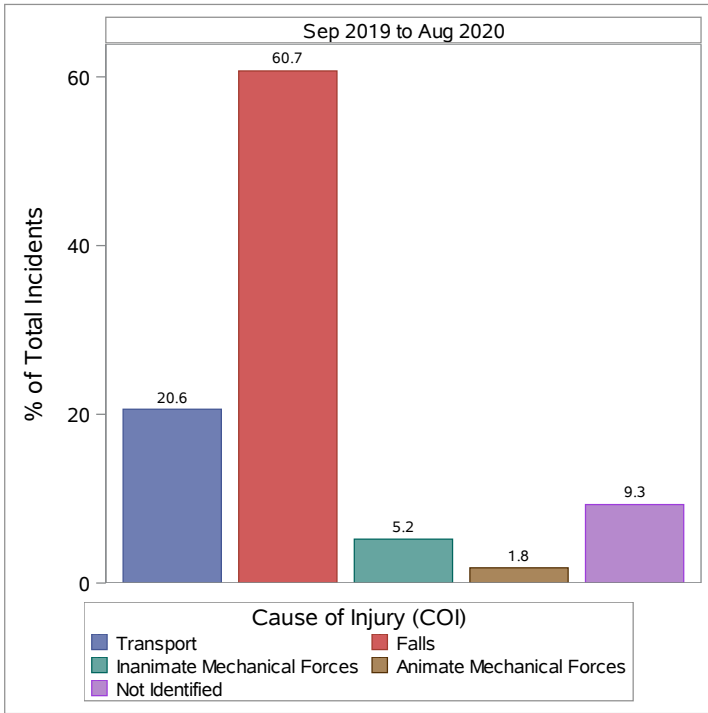
**2019:**   38748 Incidents
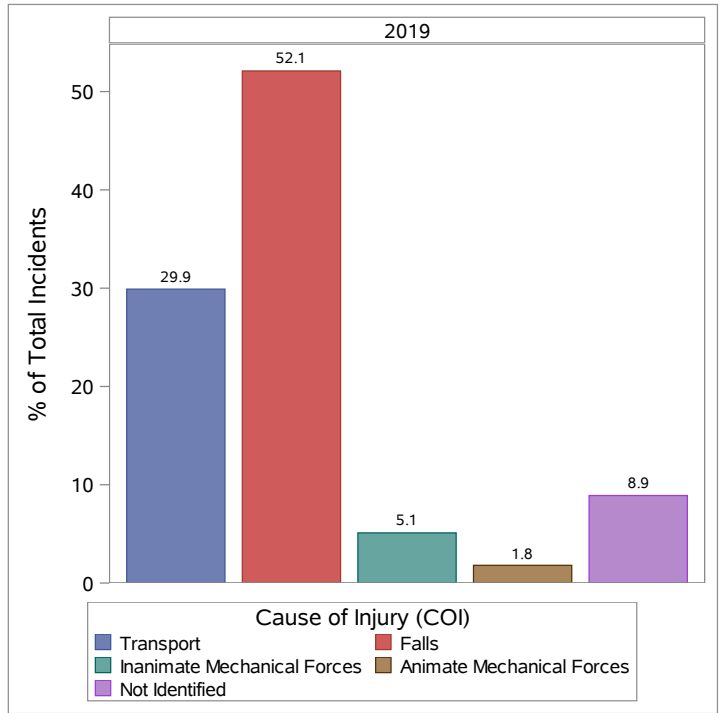


## COI-Motor Vehicle Collision (MVC)

**September 2019 - August 2020:**   3980 Incidents
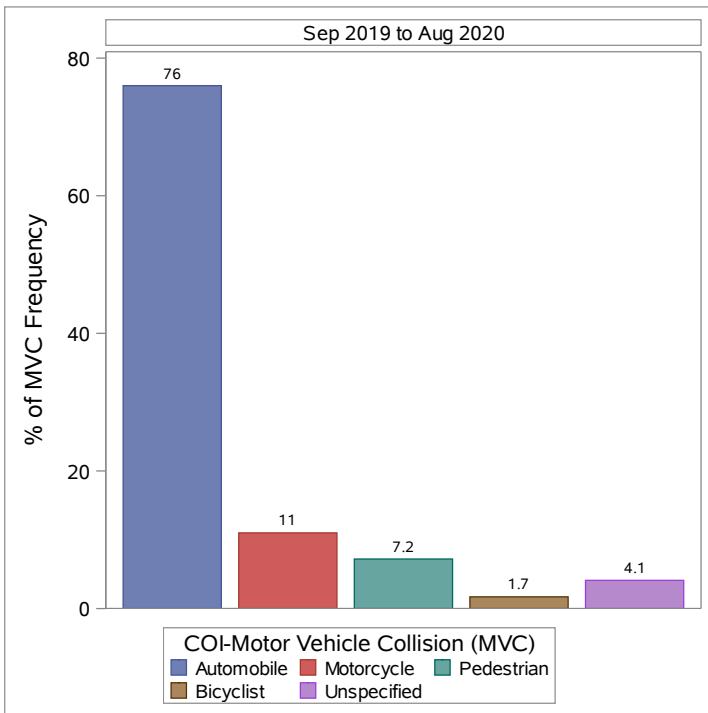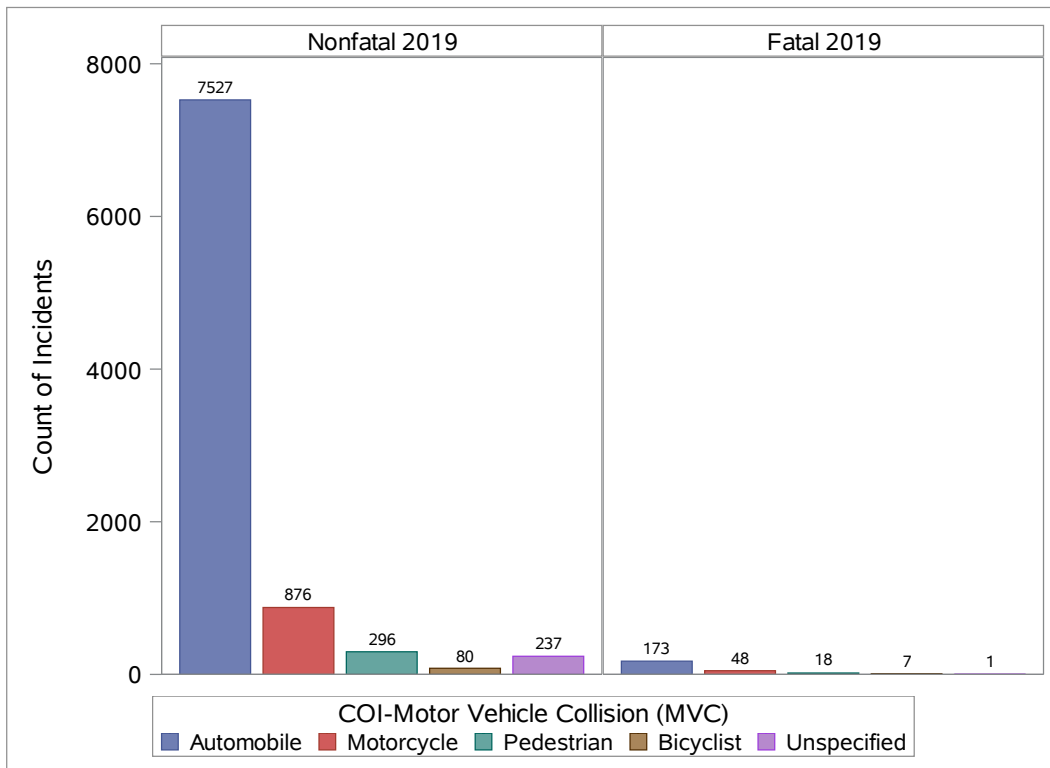
**2019:**   9263 Incidents
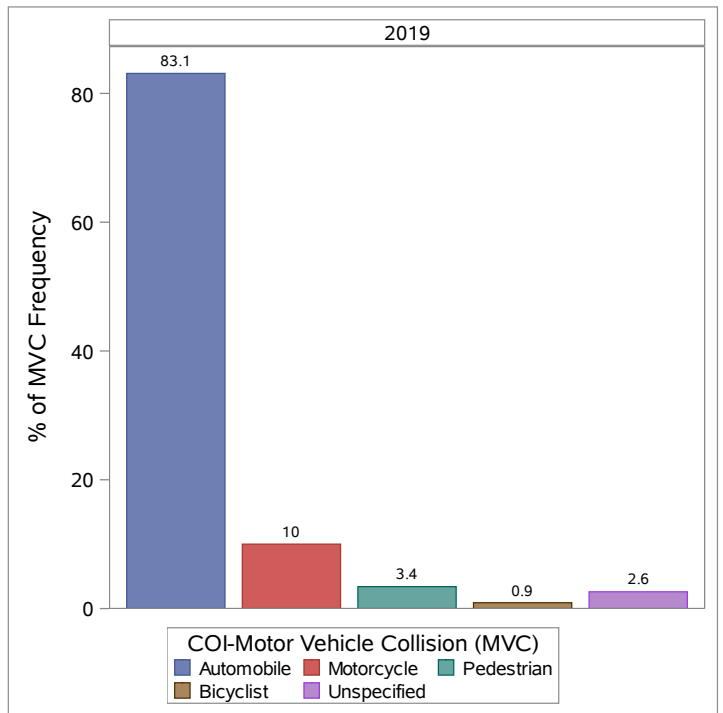
# August 2020 Indiana Trauma Registry Report

Motor Vehicle Collision: Nonfatal Incidents and Fatal Incidents
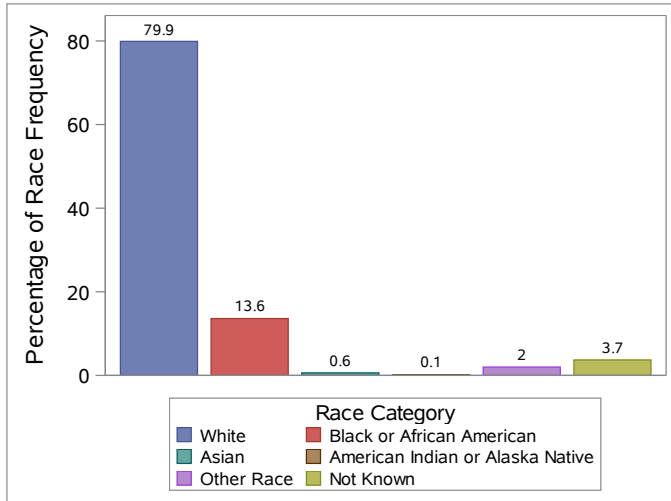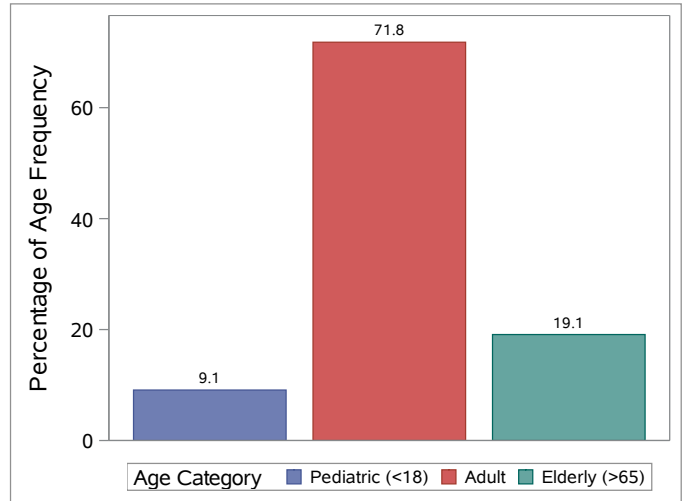
## September 2019 - August 2020
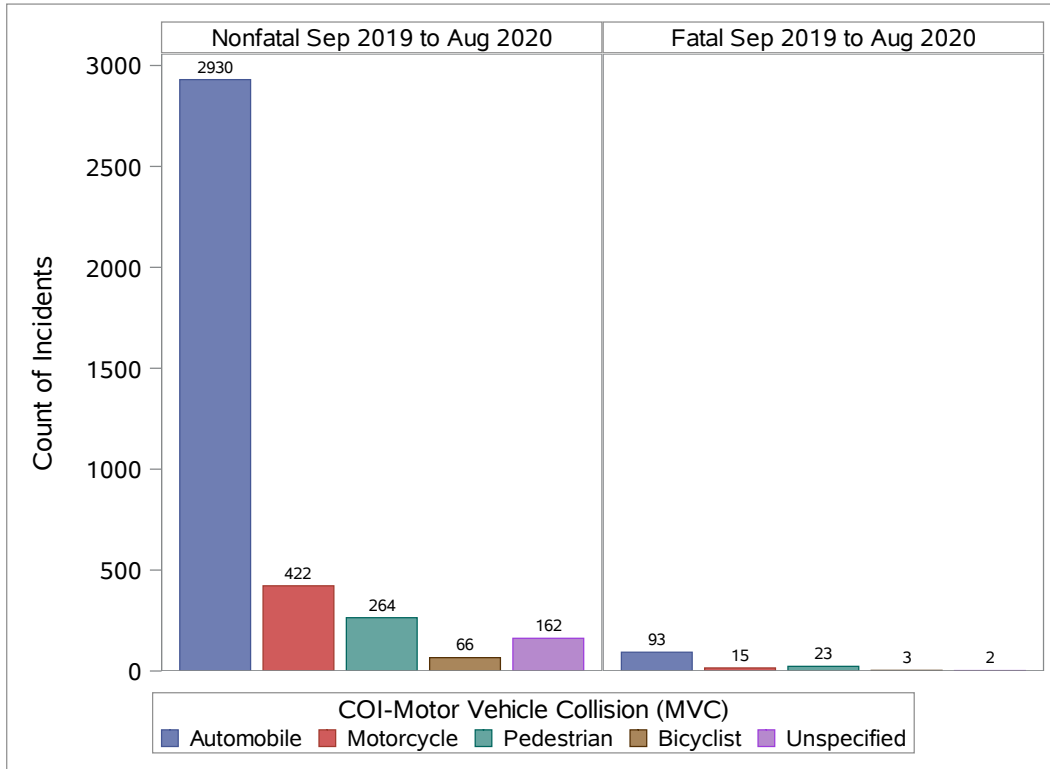


## 2019

# August 2020 Indiana Trauma Registry Report
## Overall Motor Vehicle Collisions (MVC) September 2019 - August 2020

### Race



### Age



### Gender
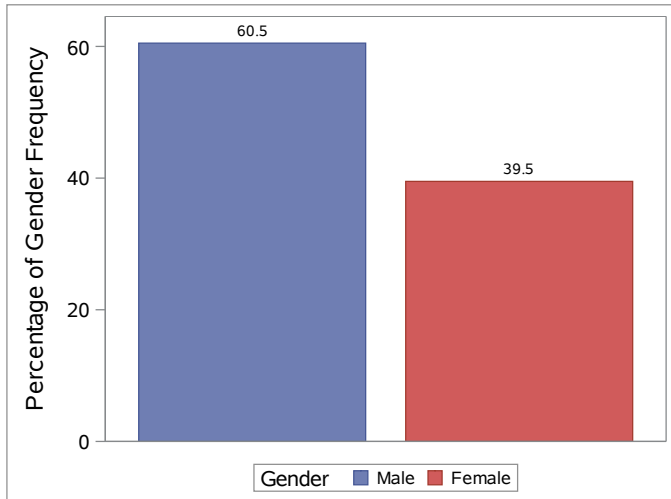


### Drug & Alcohol Use
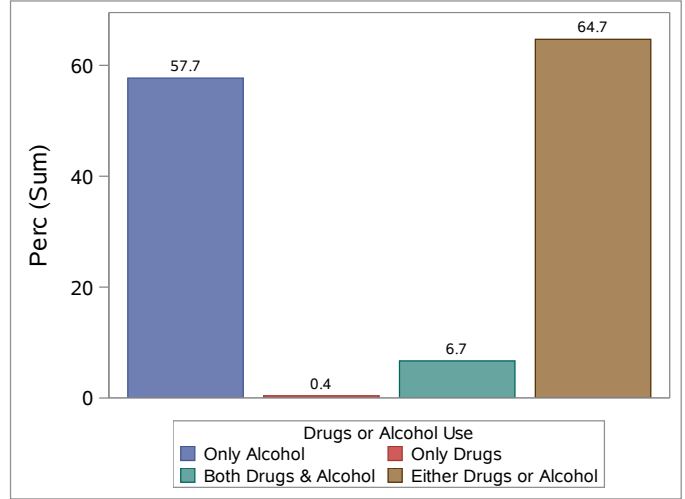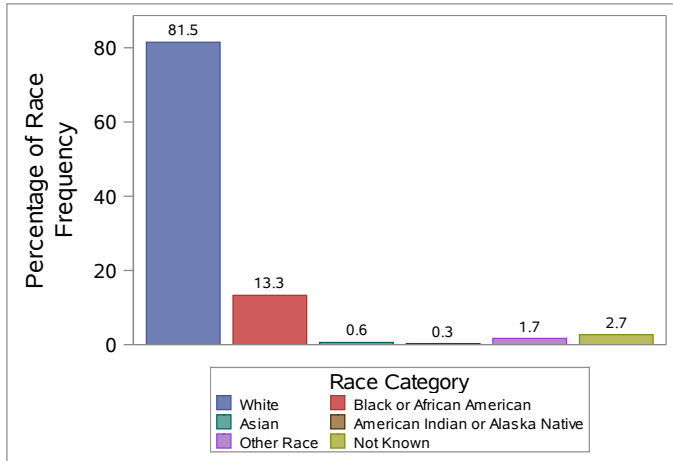


### Injury Severity Score
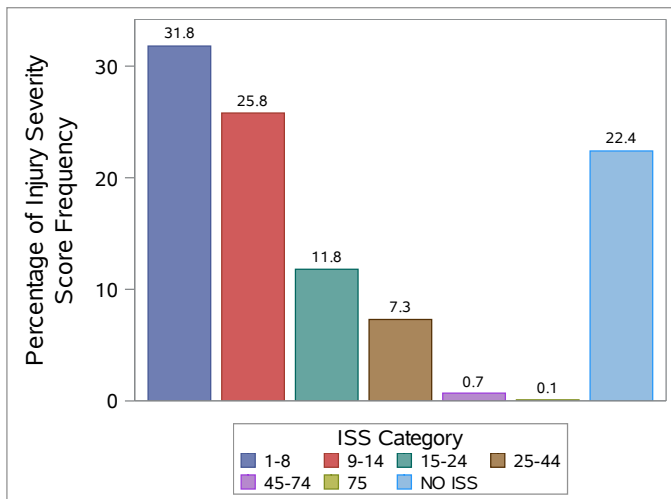


### Protective Devices
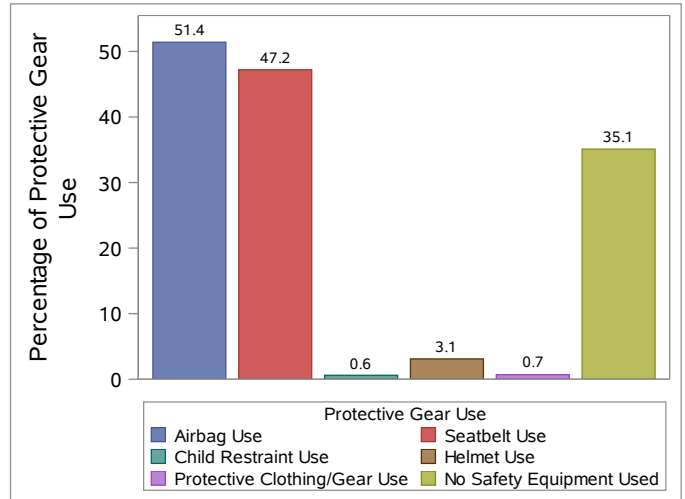


Injury Severity Score (ISS) is a measure of how bad the injury is. Scores over 15 are considered major trauma. A score of 75 is considered not survivable.

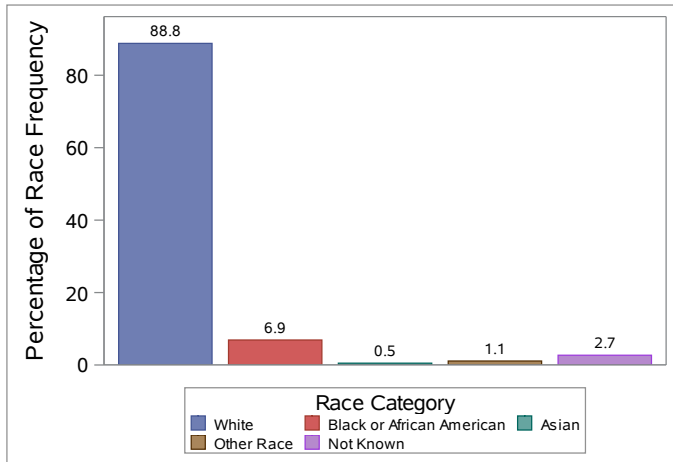# August 2020 Indiana Trauma Registry Report
## Motor Vehicle Collisions by Race

### 2019



### September 2019 - August 2020
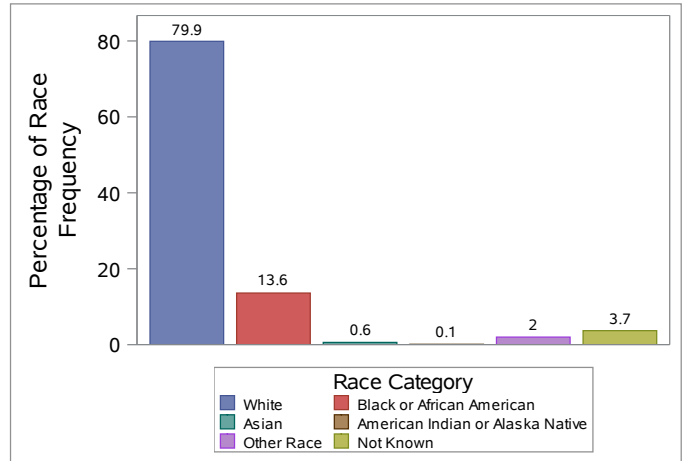


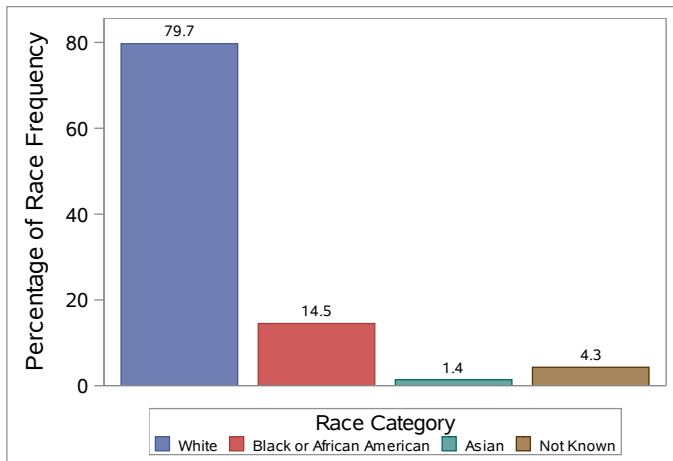## September 2019 - August 2020:   MVC by Collision Type and Race

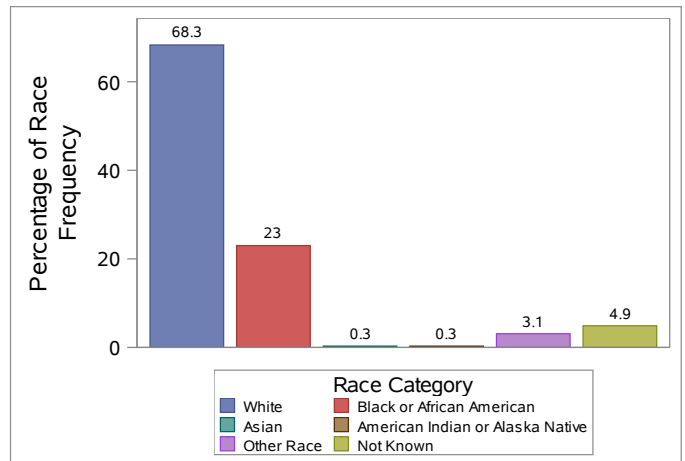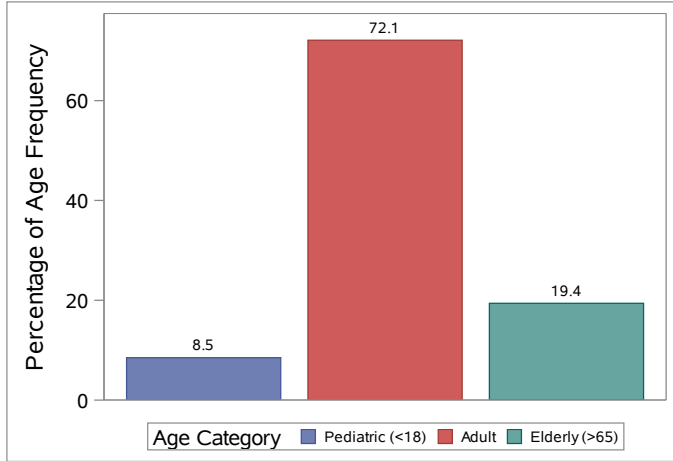### Motorcycle



### Automobile
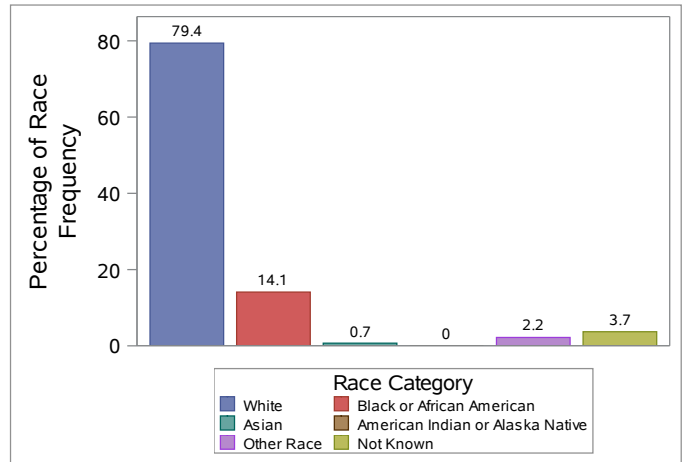


### Bicyclist



### Pedestrian

# August 2020 Indiana Trauma Registry Report
## Motor Vehicle Collision by Age Category



**2019** — bar chart, Percentage of Age Frequency by Age Category: Pediatric (<18) 8.5, Adult 72.1, Elderly (>65) 19.4

**Race** — bar chart, Percentage of Age Frequency by Age Category: Pediatric (<18) 9.1, Adult 71.8, Elderly (>65) 19.1
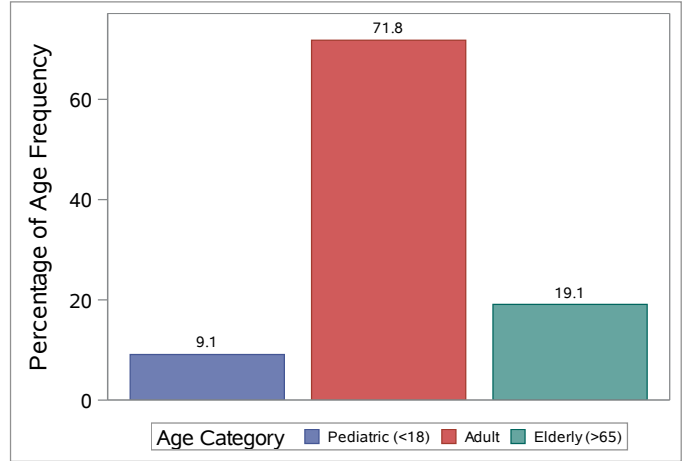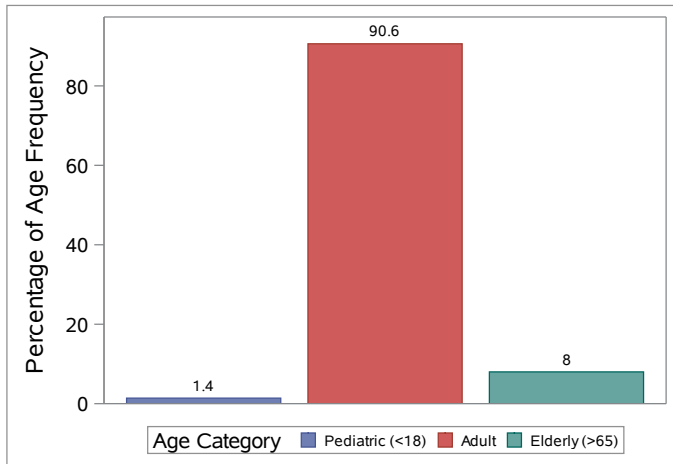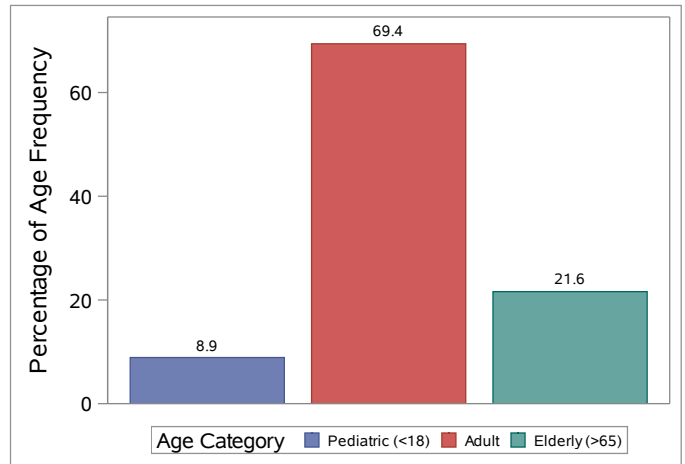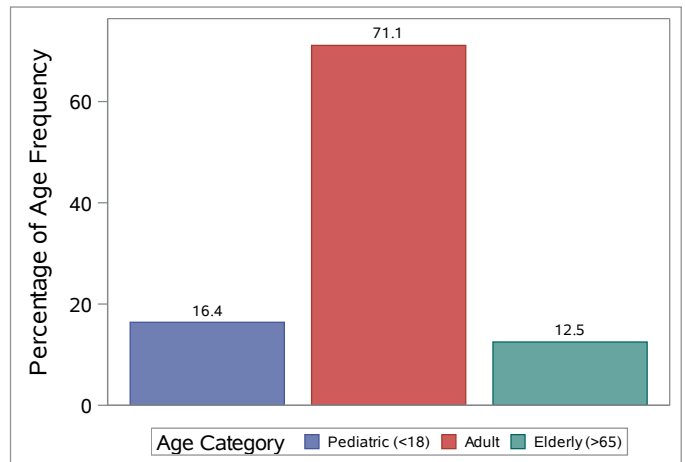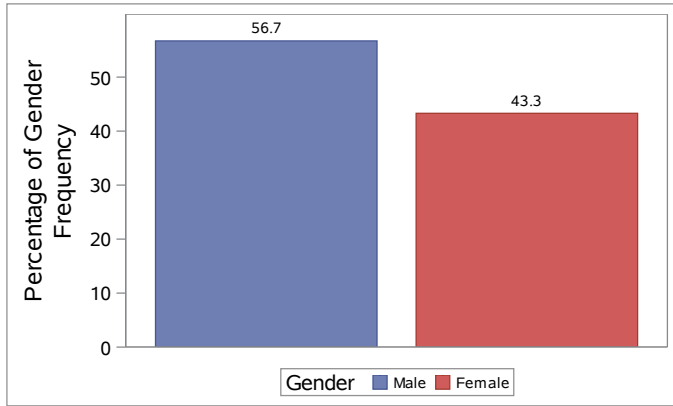
**September 2019 - August 2020:** MVC by Collision Type and Age Category

**Motorcycle** — bar chart, Percentage of Age Frequency by Age Category: Pediatric (<18) 1.4, Adult 90.6, Elderly (>65) 8

**Automobile** — bar chart, Percentage of Age Frequency by Age Category: Pediatric (<18) 8.9, Adult 69.4, Elderly (>65) 21.6

**Bicyclist** — bar chart, Percentage of Age Frequency by Age Category: Pediatric (<18) 30.4, Adult 63.8, Elderly (>65) 5.8

**Pedestrian** — bar chart, Percentage of Age Frequency by Age Category: Pediatric (<18) 16.4, Adult 71.1, Elderly (>65) 12.5
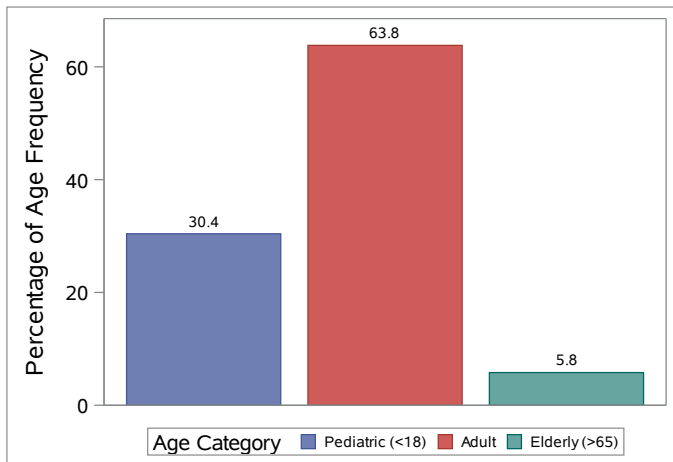
# August 2020 Indiana Trauma Registry Report
## Motor Vehicle Collision by Gender

### 2019

| | |
|---|---|
| Male: 56.7 | Female: 43.3 |

Y-axis: Percentage of Gender Frequency
Legend: Gender — Male, Female

### Race

| | |
|---|---|
| Male: 60.5 | Female: 39.5 |

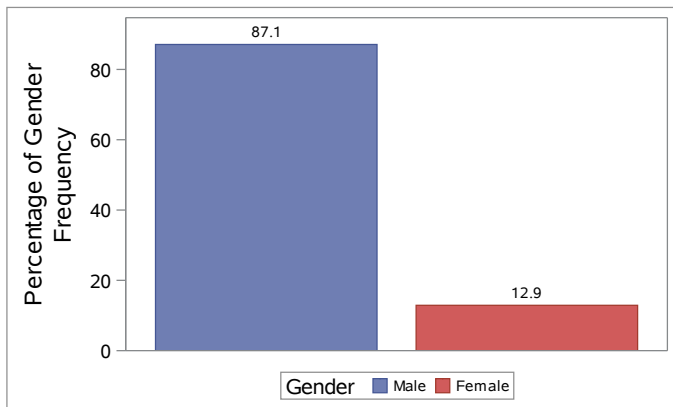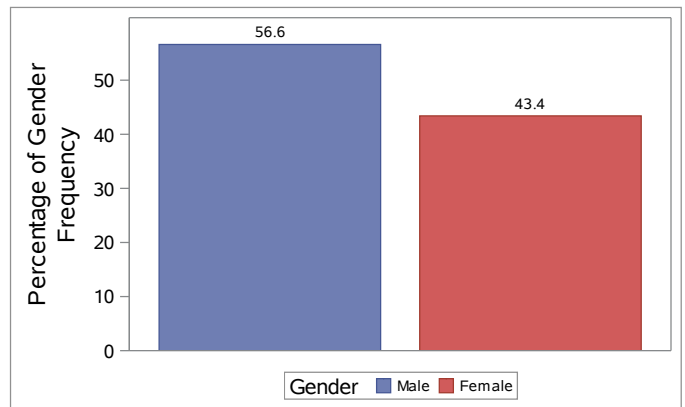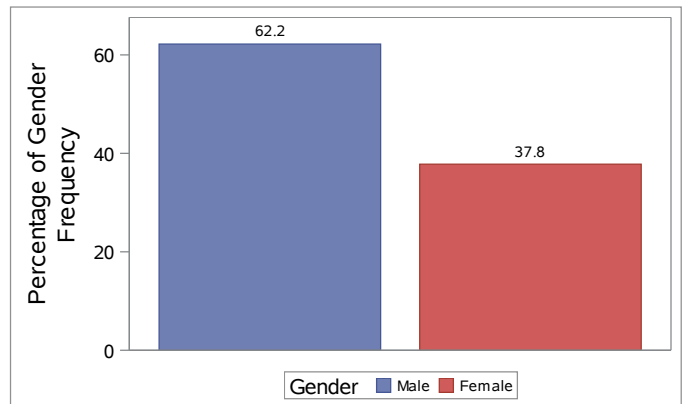Y-axis: Percentage of Gender Frequency
Legend: Gender — Male, Female
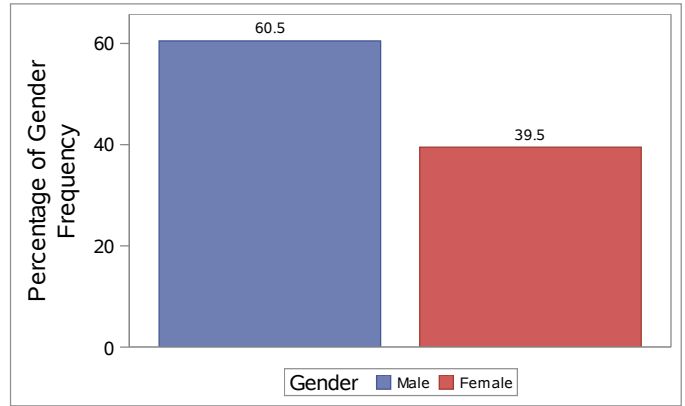
## September 2019 - August 2020: MVC by Collision Type and Gender

### Motorcycle

| | |
|---|---|
| Male: 87.1 | Female: 12.9 |

Y-axis: Percentage of Gender Frequency
Legend: Gender — Male, Female

### Automobile

| | |
|---|---|
| Male: 56.6 | Female: 43.4 |

Y-axis: Percentage of Gender Frequency
Legend: Gender — Male, Female

### Bicyclist

| | |
|---|---|
| Male: 73.9 | Female: 26.1 |

Y-axis: Percentage of Gender Frequency
Legend: Gender — Male, Female

### Pedestrian

| | |
|---|---|
| Male: 62.2 | Female: 37.8 |

Y-axis: Percentage of Gender Frequency
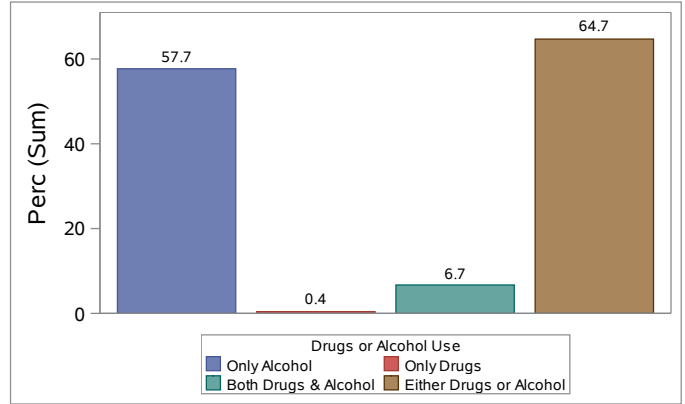Legend: Gender — Male, Female
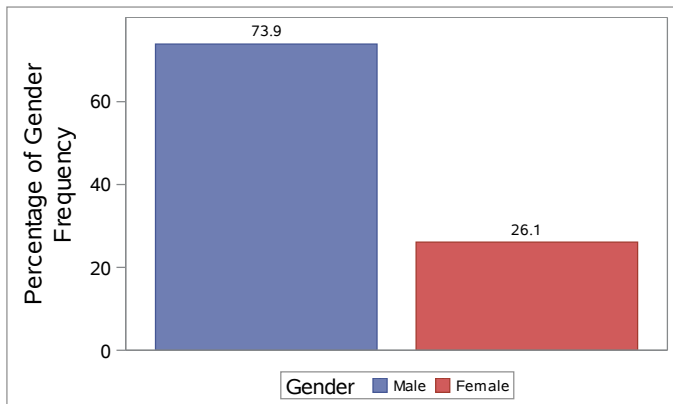
# August 2020 Indiana Trauma Registry Report
## Motor Vehicle Collision by Drug & Alcohol Use
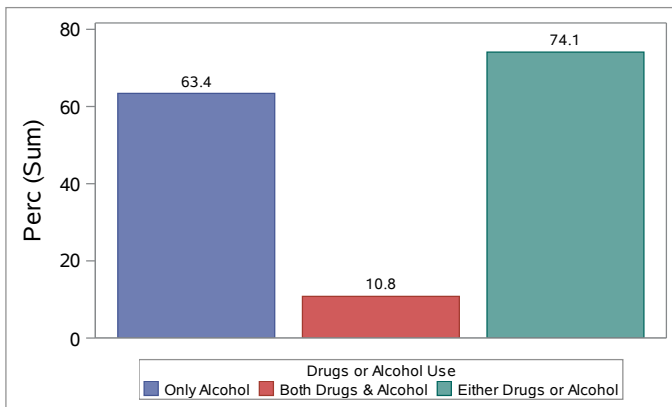
### 2019
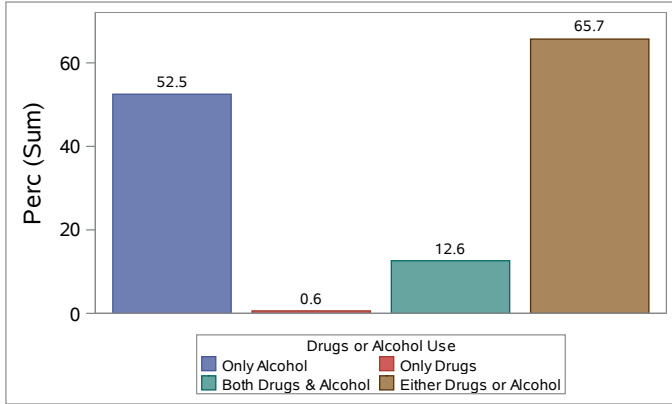

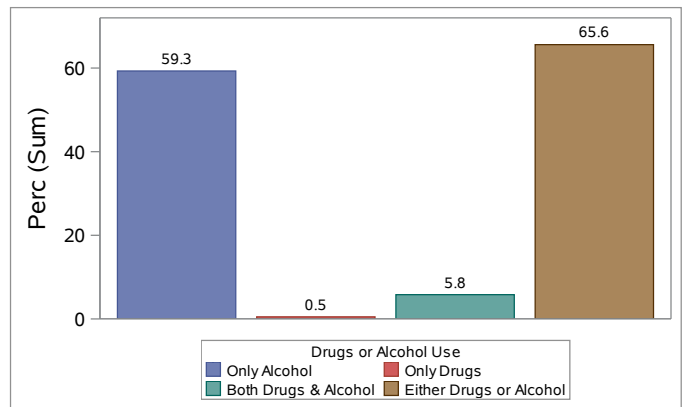
### September 2019 - August 2020



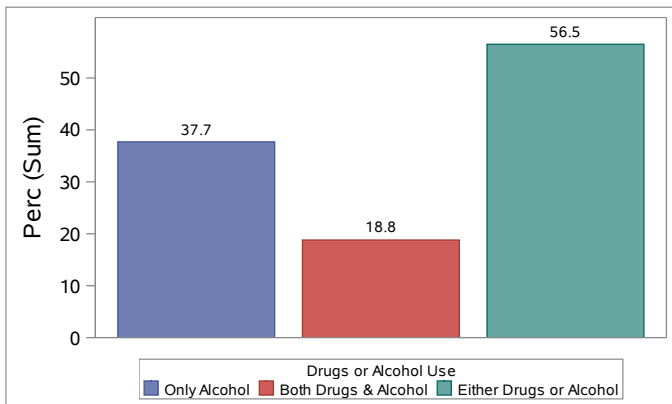## September 2019 - August 2020: MVC by Collision Type and Drug & Alcohol Use
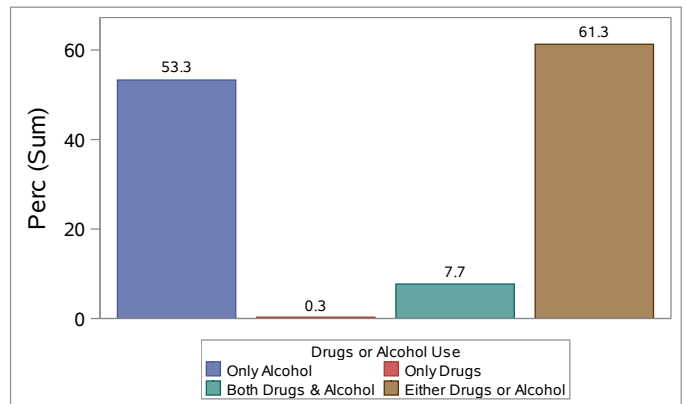
### Motorcycle



### Automobile

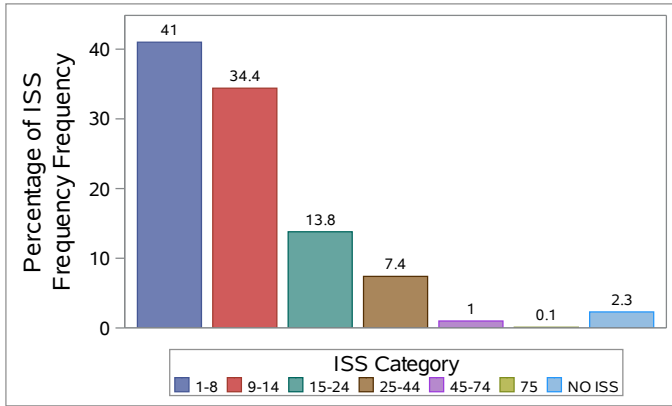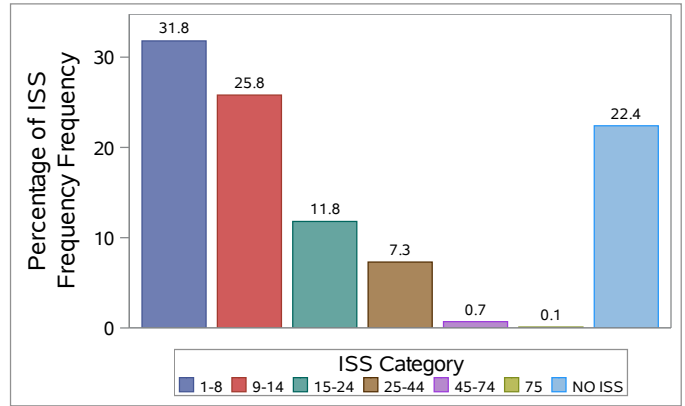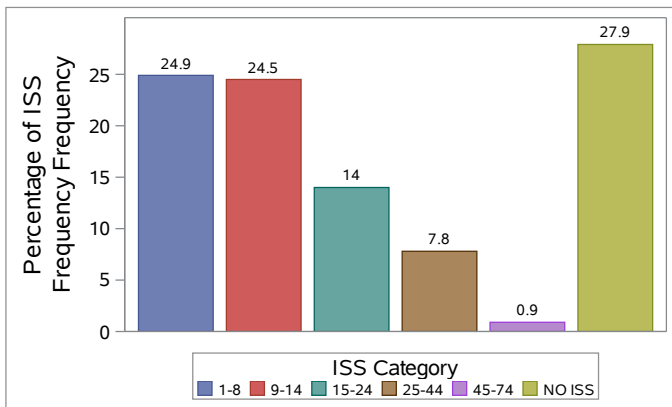

### Bicyclist



### Pedestrian

# August 2020 Indiana Trauma Registry Report
## Motor Vehicle Collision by Injury Severity Score
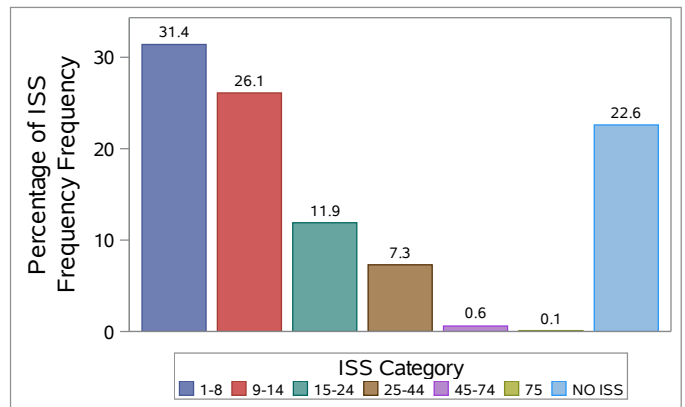
### 2019



### September 2019 - August 2020



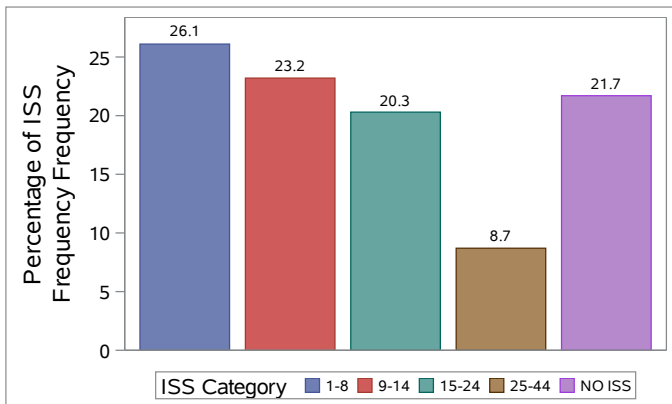## September 2019 - August 2020: MVC by Collision Type and ISS Score
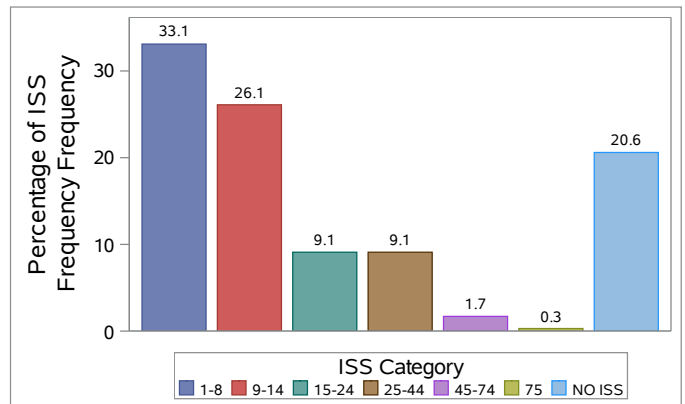
### Motorcycle
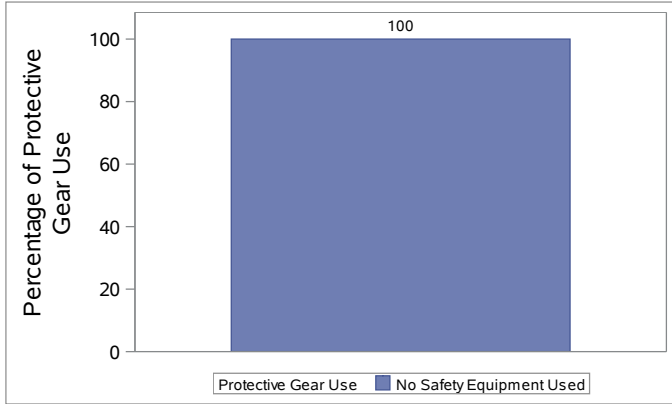


### Automobile



### Bicyclist
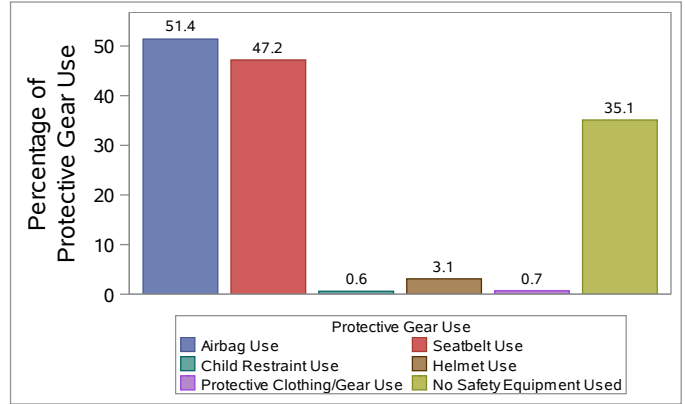


### Pedestrian

# August 2020 Indiana Trauma Registry Report
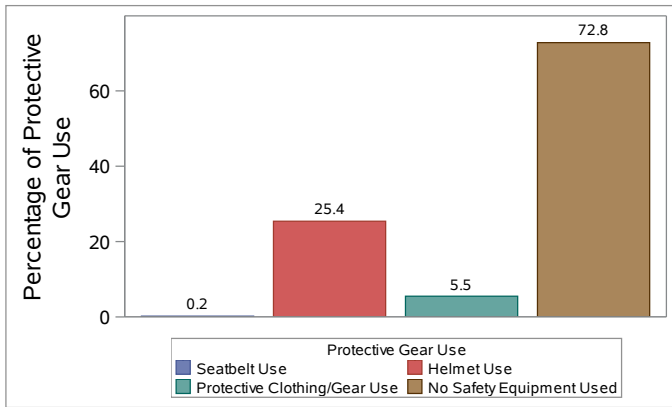## Motor Vehicle Collision by Protective Devices

### 2019



### September 2019 - August 2020



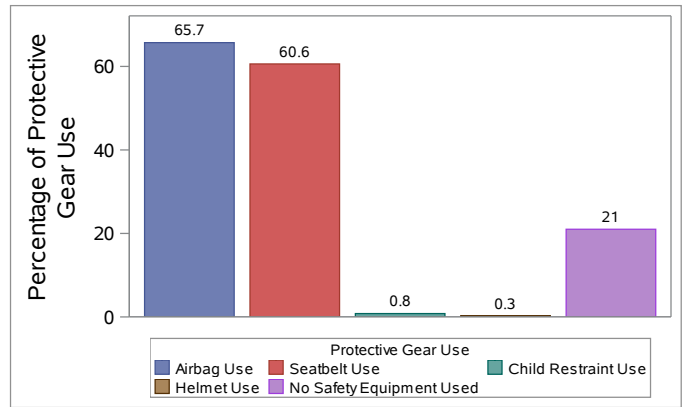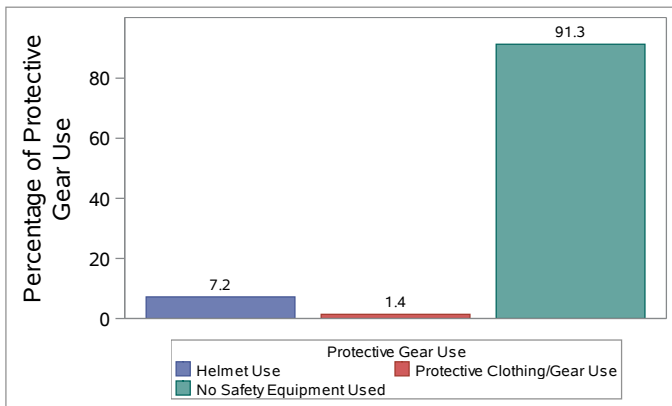## September 2019 - August 2020: MVC by Collision Type and Protective Gear Use

### Motorcycle



### Automobile



### Bicyclist



### Pedestrian