

# Concussion Chronicles: Analyzing IMPACT trends across Tucson High School athletics from 2008 - present.

## Research Question

- For are research question we wondered, can analyzing impact trends from 2008 to present help prevent or slow the number of concussions acquired during Tucson High Athletics.

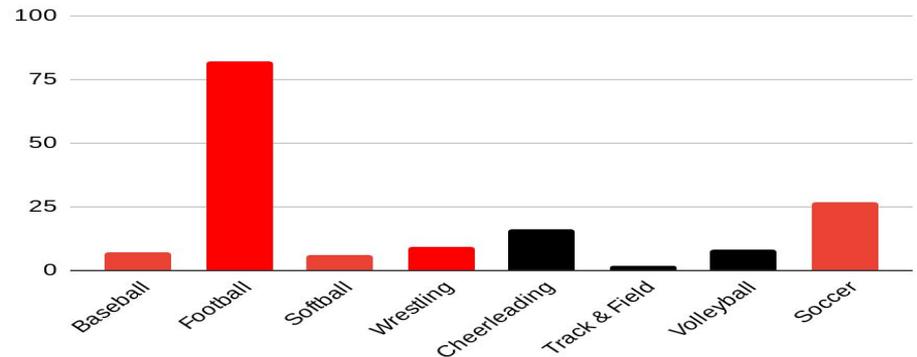
## Data Analysis and Results

Test Date	Test Year	Test Type	Sport	# of concussion
8-Sep-08	-08	Post-Injury 1	Football Freshman	8
22-Sep-08	-08	Post-Injury 1	Football Freshman	11
29-Sep-08	-08	Post-Injury 1	Football Junior Varsity	22
30-Sep-08	-08	Post-Injury 1	Football Varsity	8
27-Oct-08	-08	Post-Injury 1	Football Junior Varsity	10
29-Oct-08	-08	Post-Injury 1	Football Freshman	18
3-Nov-08	-08	Post-Injury 1	Football Varsity	22
1-Dec-08	-08	Post-Injury 1	Wrestling	15
2-Oct-09	-09	Post-Injury 1	Football Varsity	12
7-Oct-09	-09	Post-Injury 1	Football Junior Varsity	14
13-Oct-09	-09	Post-Injury 1	Football Junior Varsity	6
13-Oct-09	-09	Post-Injury 1	Football Varsity	9
13-Oct-09	-09	Post-Injury 1	Football Varsity	3
21-Oct-09	-09	Post-Injury 1	Football Junior Varsity	7
21-Oct-09	-09	Post-Injury 1	Football Junior Varsity	5
28-Oct-09	-09	Post-Injury 1	Football Junior Varsity	
28-Oct-09	-09	Post-Injury 1	Football Junior Varsity	
2-Dec-09	-09	Post-Injury 1	Basketball	
15-Dec-09	-09	Post-Injury 1	Soccer	

## Methodology

- We used impact data across all Tucson High sports from 2008 - Present.
- We then looked at the worst years and sports for concussions.

## Findings



# Background: Concussions in High School.

Concussions are a scary thing but getting one in high school can be bad. Playing football has made us want to look into the number of concussions and see if there is anything we can find to help lower the number of concussions in our school.

Football is known as a high concussion rate sport, so we wanted to see how many our team has had over the past years.



# Research Question



Can analyzing impact trends from 2008 to present help prevent or slow the number of concussions acquired during Tucson High Athletics? Looking at this can be very important. We can find ways to lower or help decrease concussion rates for athletes at Tucson High Magnet School. By looking at our schools concussion statistics from this decade we can make educated estimates on how to lower the number of concussions annually. We can also know if our schools athletic department has done anything to help lower the concussions rats by comparing rates yearly.

---

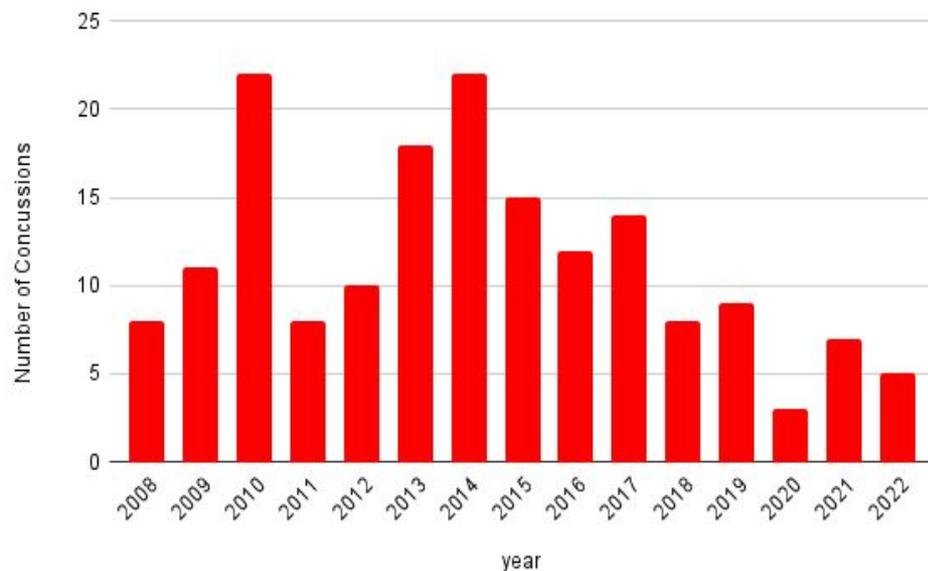
# Methods

We Looked at concussion IMPACT data from 2008 to present from Tucson High Magnet Athletics.

By looking at each individual year and sport. We can look at trends across our schools athletics.

All our information came from Tucson High's Athletic Trainer who deals with post head IMPACT tests.

Concussions of Each Year 2008 to 2022



# Results

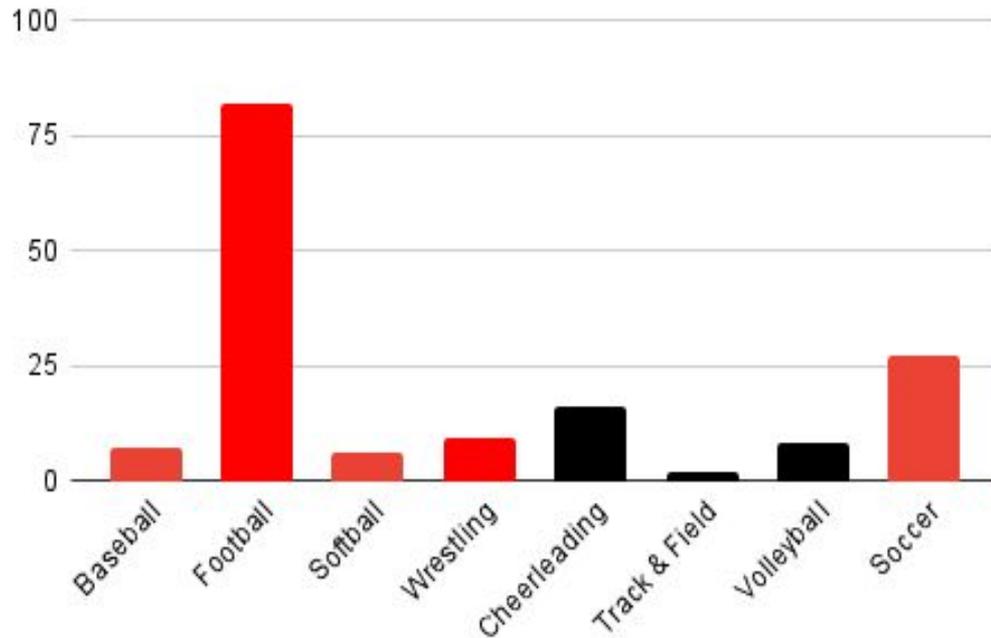
From 2008 to present there has been a total of 171 confirmed concussions at Tucson High.

Almost half of the concussions at this school come from football alone. 82 concussions for football since 2008.

The only other sport to have more than 20 concussions happens to be soccer.

Cheerleading having more concussions than wrestling and baseball.

Concussions from 2008 to Present



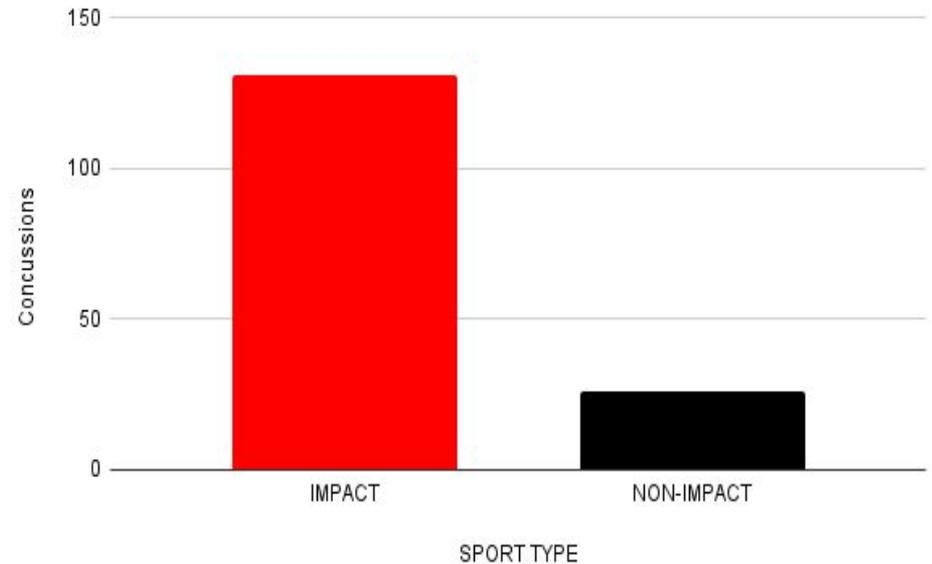
# Discussion and Interpretation

Most people wouldn't be surprised that impact sports make up a majority of concussions at THS.

Non-Impact sports aren't without risk as well, 26 concussions have come from non-impact sports since 2008. Showing that concussions can be acquired from any high school sport.

The amount of concussions football has clearly shows that better equipment and better responses to head blows might help decrease these numbers.

Concussions for Impact vs Non-impact Sport 2008 - Present



# Implications and Ideas for Future Research



- Looking at other schools to see if there data matches or is different.
  - Looking more into the sport with the most concussions to see why they is so many.
  - Seeing if the people who got concussions grades and attitude inclined or declined.
-

# References

Tucson High Athletics IMPACT data