

The Development of a Sports Injury Surveillance Registry for Adolescents

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Background

➤ Sports Injuries:

- 1,000,000 sports injuries annually recorded for adolescents ages 10-17 years
- Lead to losses of thousands of dollars
- One of the leading reasons for school-related hospitalizations

➤ Sports Injury Surveillance:

- Needed to capture incidence, prevalence, risk factor, and exposure information
- No national, state, or local injury surveillance registries for adolescents

Purpose

Develop a sports injury registry for high school athletes that will capture exposure and risk factor information leading to targeted ecological interventions.

Methods

➤ Injury Registry Development

- Sports injury surveillance registry for high school athletes developed by the Sports Medicine and Athletic Related Trauma (SMART) Institute in Florida
- Utilized professional sports injury surveillance software created by Simtrak™.

➤ Variables developed focused on:

- Exposure (number of athletes participating in the number of organized practices and/or games)
- Detailed injury mechanisms and activities
- Illegal/foul play, concussion variables, protective equipment, and outcomes
- Environmental conditions, field locations and positions, time of injury
- Demographic factors including race/ethnicity

➤ Data Collection

- Utilizes the software installed on the laptops of 10 certified athletic trainers (ATCs) from 10 public high schools in Hillsborough County, Florida.
- At least 1700 athletes in these schools expected to be injured annually
- Multiple software training sessions for data collection for the ATCs
- Exporting of collected data to the university for analysis once a week

Analysis

➤ Data Analysis

SAS will be used to analyze all frequency data and to determine significant relationships between the variables and sport injury.



Sports Injury Surveillance Software