

**UNIVERSITY OF ALBERTA** FACULTY OF MEDICINE & DENTISTRY **Department of Family Medicine** 

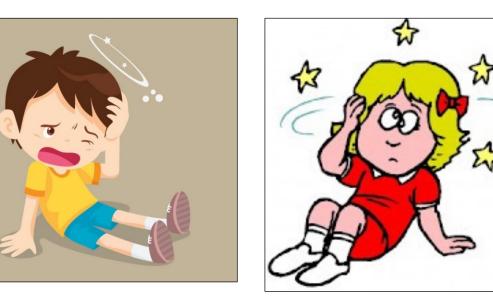
## Increased Symptom Scores & Prolonged Course of Recovery for Female Patients with Concussion Injuries seen at a University Sport Medicine Clinic Constance Lebrun, MD<sup>1,2</sup>, Annie Boyd, BSc<sup>1,2</sup>, Sheharzad Mahmood, BHSc<sup>1,</sup>, Ann-Marie Przyslupski, MSc<sup>1,2</sup>, Teresa DeFreitas MD<sup>1,2</sup>, Martin Mrazik, PhD, R.Psych<sup>1,3</sup> <sup>1</sup>Glen Sather Sports Medicine Clinic, Edmonton, Alberta, Canada; <sup>3</sup>Department of Educational Psychology, University of Alberta, Edmonton, Alberta, Canada; Canada; <sup>3</sup>Department of Educational Psychology, University of Alberta, Edmonton, Alberta, Canada; Canada

# BACKGROUND

**Concussion presents multiple challenges in diagnosis** and management.<sup>1</sup>

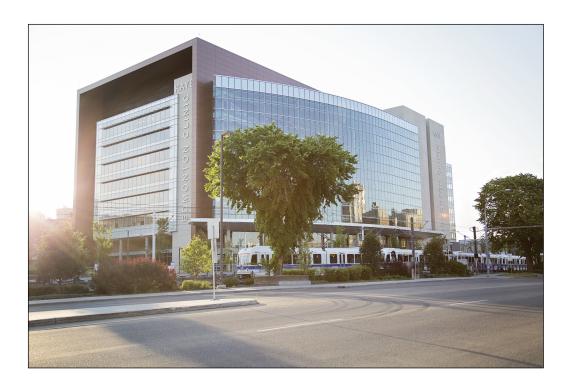
**FEMALES** are thought to incur more severe injuries, report more symptoms and take longer to recover than do MALES<sup>2-8</sup>. This is a critical area for future research<sup>9</sup>.





## **OBJECTIVE**

• To characterize patients with concussion injuries seen at a university sport medicine clinic and compare initial presentation and recovery between **FEMALES** and **MALES**, to identify any potential sex-related differences.





## METHODS

#### **DESIGN**:

• Retrospective chart review of patients with concussion injuries seen by a Sport and Exercise Medicine (SEM) physician from January 1, 2015, to May 31, 2021.

### **SETTING:**

• University-based sport medicine clinic in Edmonton, Alberta Canada

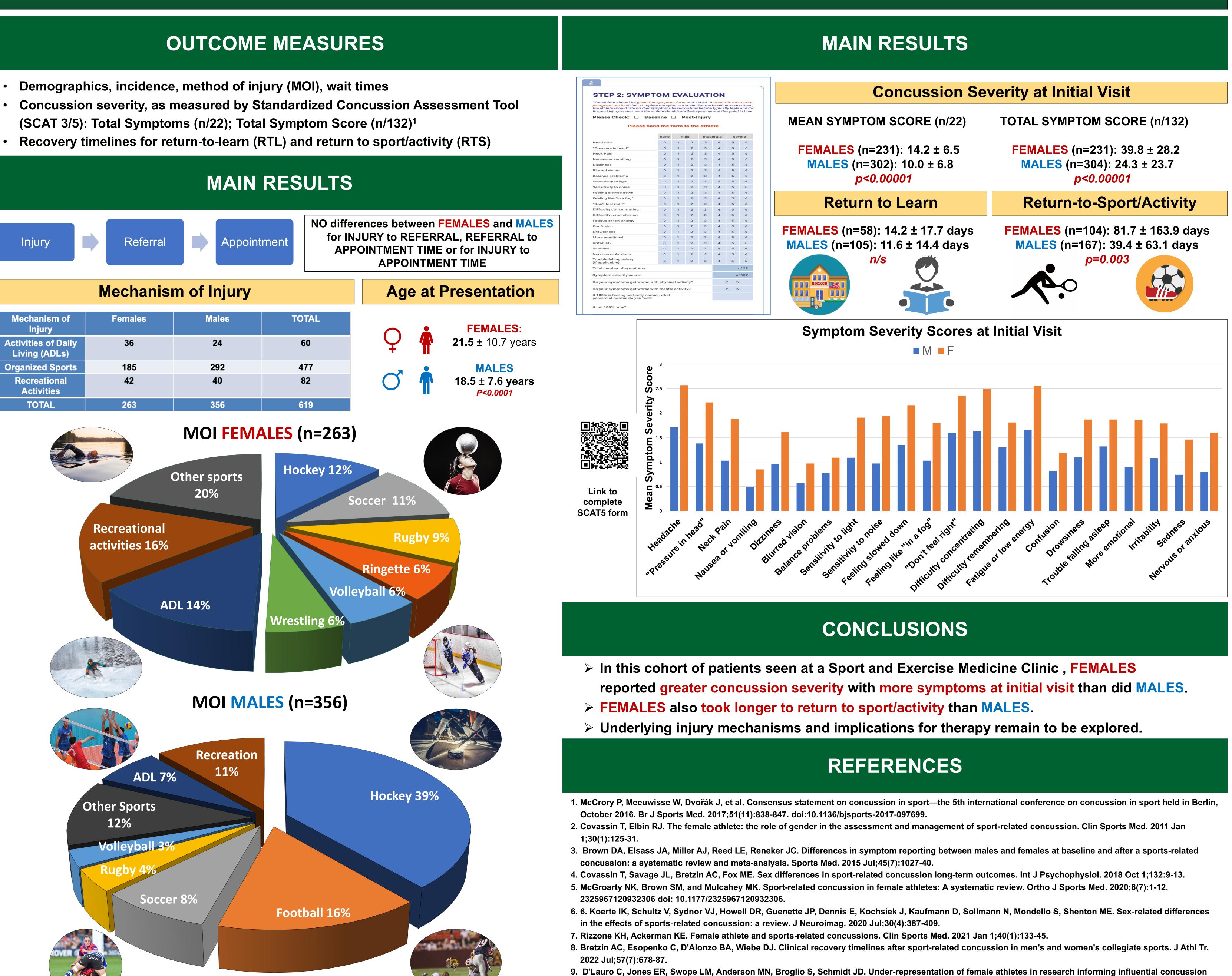
### **PARTICIPANTS:**

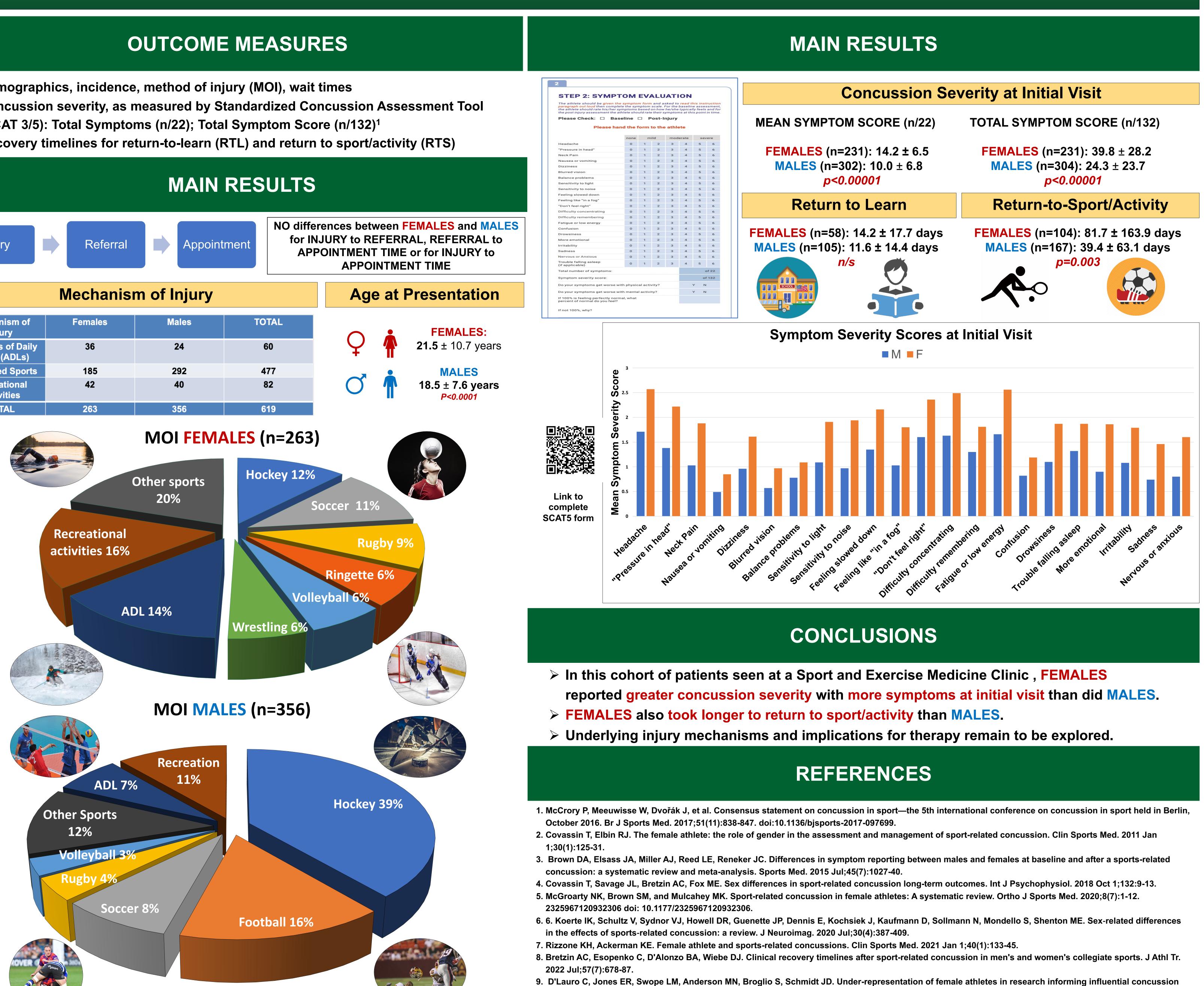
- 552 patients with 621 unique injuries (263F:358M; overall age **19.8 ± 9.2** years; seen over **1607** visits) **RISK FACTORS:**
- Patients seen at the clinic with concussions were subdivided by sex into **FEMALE** (F) or **MALE** (M).

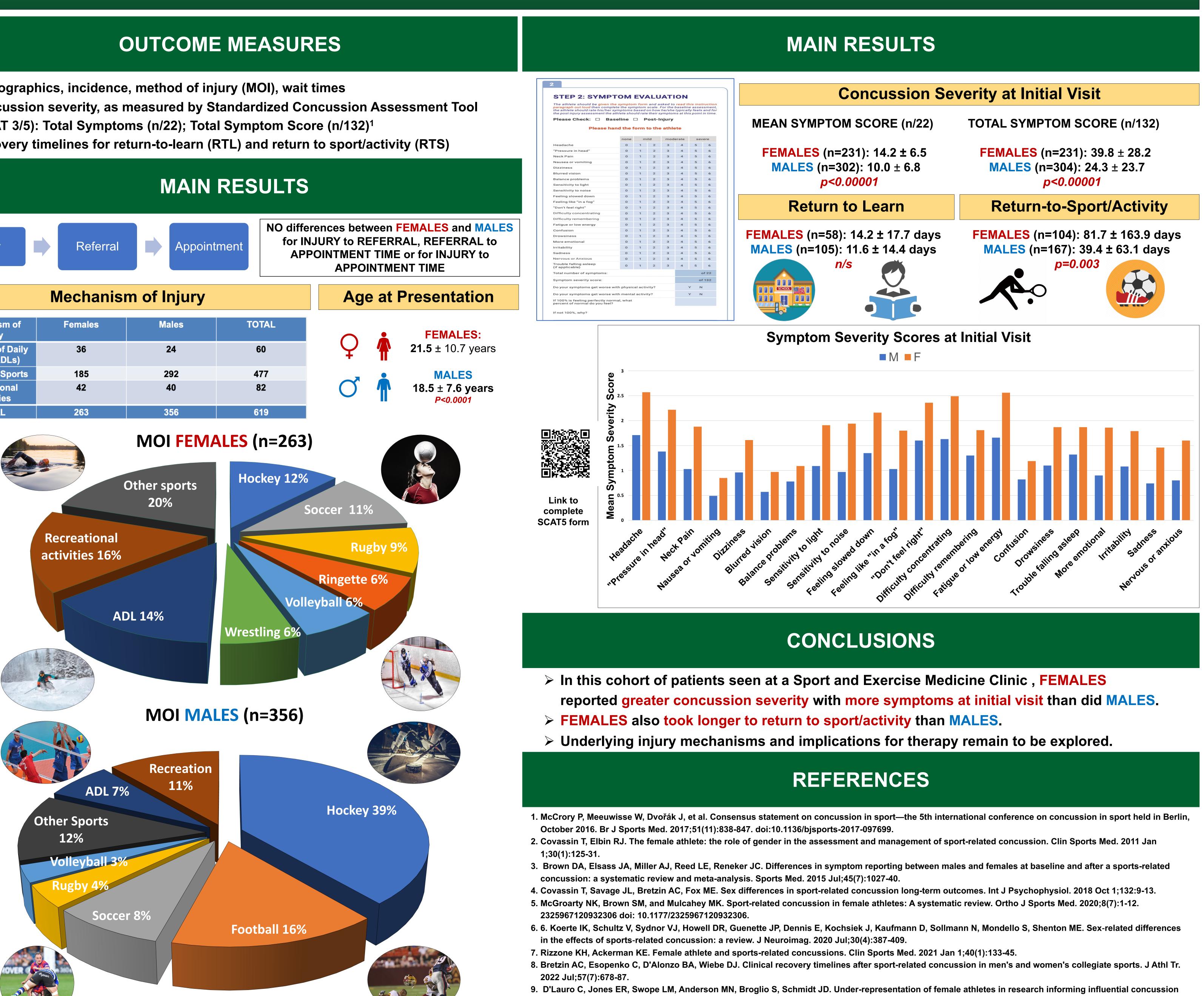
### Injury

Mechanism of Injury **Activities of Dai** Living (ADLs) **Organized Sports** Recreational Activities TOTAL









- consensus and position statements: an evidence review and synthesis. Br J Sports Med. 2022 Sep 1;56(17):981-7.

