

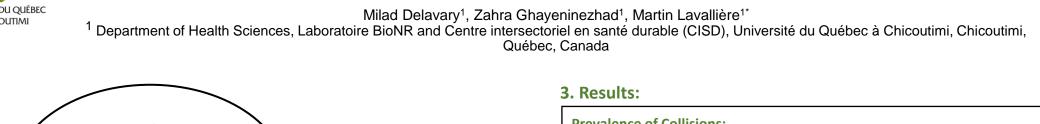
First

**Objective:** 

**P**revalence

## Prevalence and Characteristics of Ambulance Collisions, a Systematic Literature Review





# 1. Introduction:

Ambulance drivers face a greater risk of collisions than other commercial drivers due to the nature of their work

> Second **Objective: Explanatory** Variables

### **Hypothesis:**

1. Higher Prevalence 2. Experience, Collision characteristics. response mode, etc. are predictors.

#### **Prevalence of Collisions:**

- Yearly average of 144.6 collisions in the selected studies.
- Highest records are 509.5 and 436.25 in 2005 and 2007 in the U.S., respectively.







variables





DEMOGRAPHICS

**Drivers' Characteristics** 









- Paper selection process based on PRISMA
- Searching the literature
- ambulance, emergency service vehicle, emergency medical service vehicle
- fatal, injury, crash, collision, traffic collision, incident
- PubMed search engine, January 1990 and July 2021

## of Papers 5 Number US Turkey Taiwan US and France Poland

1990-1999

15

10

Country

Canada







### **Characteristics of included Papers:**

- 2494 records screened from PubMed (plus 2)
- 93 full-text articles assessed for the eligibility
- 26 studies included in the qualitative synthesis



CRITERIA

Out of Scope (n: 25)

Out of study population (n:15)

Studies from editorial comments or magazines (n:20) Insufficient detail (n:5)

Language (n:2)

4. Conclusion:

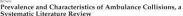
2000-2009 2010-2019

- Traffic collisions are a major concern for the health and safety of paramedics
- Traffic regulations in urban areas, especially at intersections
- Targeted training programs

#### Limitations

- Civil drivers and Human factors (driver distraction or failure)
- Quantifying the results





https://www.mdpi.com/2313-576X/9/2/24