



## 22. THE CONSEQUENCES OF CRANIOCEREBRAL INJURIES CAUSED BY ELECTRIC SCOOTERS.

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**Introduction.** The burgeoning popularity of electric scooters (ES) has been paralleled by a rise in associated craniocerebral injuries (CCIs). As these modern, portable vehicles gain widespread use in numerous developed countries, their convenience is offset by the escalating incidence of traumatic injuries. This literature review scrutinizes the aftermath of CCIs sustained in ES-related accidents, delving into the implications these injuries have on patient health and recuperation.

**Aim of study.** This study aims to methodically evaluate the severity and characteristics of head injuries incurred in ES-related incidents. It seeks to identify risk factors, immediate and long-term ramifications of these injuries, and the role of medical intervention in the healing process.

**Methods and materials.** A comprehensive review was conducted using 30 scholarly articles sourced from open-access databases including Google Scholar, WHO websites, Medline (PubMed), and Scopus. Selection was based on relevance to keywords such as craniocerebral trauma, electric scooter, e-scooter, dislocation, traffic accident, fracture, and traumatic brain injury.

**Results.** The analysis indicates a substantial proportion of individuals suffering moderate to severe CCIs, characterized by skull fractures, cerebral hemorrhages, and diffuse axonal injuries. Factors influencing the severity of ES accidents, including age, velocity, and usage of safety gear, were found to have a significant correlation with the extent of the trauma.

**Conclusion.** Electric scooter-related falls resulting in cranio-cerebral trauma present considerable health implications, underscoring the need for enhanced preventive strategies and the promotion of safety equipment. This review accentuates the necessity of preventive measures and safety education for ES users to mitigate the risk of such injuries and foster a safer riding environment.