

Mechanism of injury – trauma kinetics. What happened? How?

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Introduction: understanding the mechanism of injuries represents a key element in blunt and penetrating trauma management.

Method: systematic review of the main types of the modern trauma mechanisms, using Medline, Cochrane Library and Embase databases.

Results: to properly understand the road car accident injuries, trauma surgeon should know as many details from the scene: the speed of cars, impact direction, if the car rolled over, if occupants were restrained, if airbags exploded, vehicle telemetry, extrication time. Motorcyclists are 20 to 30 times more at risk for severe injuries or death than the four-wheel vehicle occupants. Current evidence shows a significant decrease in injuries severity by increasing use of seat-belts, motorcycle helmets, childrestraints and speed limit. Despite this, little countries around the world have road safety laws relating to key factors that can be considered sufficiently comprehensive in scope. Many modern trauma systems use for prehospital triage mechanism of injury criteria.

Conclusions: the trauma surgeon should know the mechanism of injury. This allows a high suspicion for potential injuries, their early diagnosis and an increase in the quality of trauma patient care.

Key words: trauma, injury mechanism, kinetic

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