### General Injury Statistics

#### General/Road
- 11% of severe motorcycle injuries - Spinal Injuries
  - Of which 27% Cervical injuries
  - In addition a further 1-5% of less severe injuries were spinal injuries.
  - 60% of vertebral injuries resulting in death are cervical injuries

#### MotoCross/SuperCross
- In AMA MotoCross statistics from 2001-2005 (no braces):
  - In 894 rider events - 142 accidents, 7% resulted vertebral fractures of which **50% were cervical**
  - 2% of injuries resulted in neurological impairments

#### Military
- In U.S service members from 1997 to 2007 motorcycle accident related **injuries and deaths** increased by 94% and 144% respectively.
  - In 4137 hospitalizations, 181 (4.4%) were vertebral column fractures – **2nd most common fracture area for upper torso after clavicle**.

- Typically 2-5% of motorcycle injuries are cervical injuries
- Typically 10% of more serious injuries are cervical injuries
- Besides head and chest injuries, cervical spine injuries result in the most fatalities in motorcycle road accidents.

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**References:**
- Robertson, A., et. al: Spinal Injuries in Motorcycle Crashes: Patterns and Outcomes: Journal of Trauma
- Ooi, S.S. et. al: Cervical Spine Injuries Sustained by Motorcyclists in Road Crashes in Malaysia