

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.

• <http://www.spinalcord.uab.edu/show.asp?durki=119513>

• 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*

• Ooi, S.S., et. al; *Mechanisms of Cervical Spine Injuries for Non-Fatal Motorcycle Road Crash: Med J Malaysia*

• Leatt, C., De Jongh, C.U., Keevy, P.A., Vaughan, K., Peldschuss, S.: *Leatt Corporation White Paper – Moto GPX*

• Augustine, S.J. (DO): *SuperCross/MotoCross Overview and Injury Experience 2001-2005, Jacksonville Orthopedic Institute, Florida, USA.*