

Acute Spinal Injury: Evaluation, Care, and Long Term Considerations

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The Car Crash Seminar

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"The Crash"

Common Types of Accidents

- 1. Rear-end collision (whiplash)
- 2. Side-impact collision (T-bone)
- 3. Side-swipe collision (lateral flexion)
- 4. Vehicular rollover (multiple injuries)
- 5. Head-on collision (Often fatalities)
- 6. Multiple vehicle collision (Pile-ups)



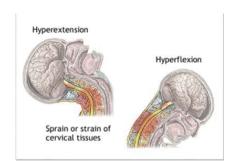
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Mechanisms

Common Mechanisms of Injury:

- 1. Axial Compression
- 2. Flexion/Hyperflexion
- 3. Extension/Hyperextension
- 4. Rotation
- 5. Lateral flexion/hyperflexion
- 6. Distraction
- 7. Penetration

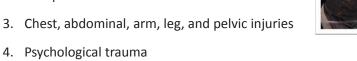


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Common Car Crash Injuries

- 1. Head and brain injury
- 2. Spinal injury
 - a. Cervical, thoracic, lumbar, sacrococcygeal
 - b. Spinal cord

- 5. Special considerations, e.g. impact on age and comorbidities





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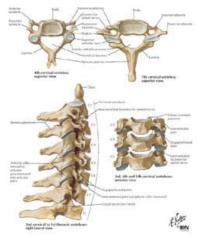
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Overview of Spinal Anatomy



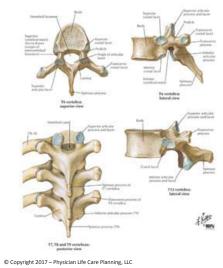
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- Small vertebral bodies
- Extensive joint surfaces

Thoracic Spine



- Rib bearing vertebrae
- Designed to remain stiff and straight





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