



Biomechanics of Soft-Tissue Injury

Mark A. Gomez

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For legal counsel, it can be a challenge to determine what type of injury occurred and just how serious the damage was to each person based on all the information provided by various experts--doctors, accident reconstructionists and police investigators. But how do you determine which parts of the body were damaged? How do you present your case? How will your expert witness prepare for trial?

By consulting with the medical and accident reconstruction experts' data about the case, a biomechanical expert determines what kind of injury pattern exists. Did the accident cause this particular injury pattern to appear? Most importantly, in *Biomechanics of Soft-Tissue Injury*, you'll gain an understanding of how these soft-tissue injuries happen.

You'll learn about the process of reconstructing an accidental injury in a step-by-step fashion. Discover the mechanisms of injury, based on clinical literature, basic science literature, and experimental data. Differences between muscles and tendons are addressed and depicted in figures and text. You'll read about eccentric loading, range of motions, center of rotation, and the biological response to acute injury.

In addition, you'll encounter the six steps of accidental injury analysis: step one includes a "description of the accident;" step two, an "injury pattern defined;" step three, "define loading conditions that produce injury;" step four, "injury mechanism defined;" step five, "accident reconstruction;" and step six, "accident data consolidation." The last chapter provides you with several case examples from which to work.

Topics include:

- The process of reconstructing an accidental injury
- The cervical spine
- The basic components: Ligament, tendon and muscle
- The thoracolumbar spine
- The shoulder
- The knee
- Sample case work-ups

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Karen Morris:

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