

7th International Conference and Exhibition on

Pain Research and Management

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Understanding the mechanism of injury: A means to provide better direction for proper diagnoses in motor vehicle collisions

Statement of the Problem: Diagnosing any disease or injury can be a challenge even for the most experienced physicians. Studies dating back to the 1999 Institute of Health report, To Err is Human estimated up to 98,000 die each year in the US due to medical errors and to death by medicine in 2011 that calculated 784,936 deaths, making medical errors the leading cause of death in the US. Unfortunately, the all too common lack of proper diagnosis not only exposes the doctor to malpractice but it also leaves the patient with inappropriate treatment and quite often a failure to recover. With motor vehicle collisions, understanding the mechanism of injury is an essential tool toward a better diagnosis.

Literature Review: Past studies with live subjects offer a better understanding of spinal motion and what structures can be injured. Unfortunately, knowing the probability of injury it is difficult to do additional live testing today to observe injuries that were overlooked in past studies. This is of particular concern with concussions/traumatic brain injuries that until recently were commonly overlooked. Testing on these injuries today is primarily with athletes and military personnel with little information on motor vehicle collisions. What we lack in knowledge of the mechanism of injury becomes evident in our failure to diagnose so many conditions.

Conclusion & Significance: Live subject studies can in part be replaced by digital modeling. Coupled with existing knowledge of biomechanics this can be a useful resource. For the most part the ability to diagnose injuries still goes back to the basic foundation of a good history. Understanding the mechanism of injury is an essential starting point for that history and in turn the means to a better diagnosis.



Recent Publications

1. Hendler et al. (1993) Overlooked Physical diagnoses in chronic pain patients involved in litigation. Psychosomatics 34(6):494-501.
2. Nelson W G, Rosen A and Pronovost P J (2016) Reengineering the physical examination for the new millennium? JAMA 315(22):2391-2392.
3. Kirkwood Graham, Hughes Thomas C and Pollock Allyson M (2014) Injury surveillance in Europe and the UK. BMJ DOI: <https://doi.org/10.1136/bmj.g5337>.
4. Erin P Balogh and B T (2015) Improving Diagnosis in Healthcare. New York: National Academies DOI: 10.17226/21794.

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Biography

William P Gallagher Jr has practiced chiropractic in Arizona and California for the past 30 years. As someone who has survived several motor vehicle collisions, this is an area of particular concern to him. In order to learn and teach about motor vehicle injuries he created the American Academy of motor vehicle injuries. The academies 150 hour certificate program teaches doctors how to diagnose, document, and manage a personal injury case. Half of the core curriculum is on exam and diagnosis and all of that is based on understanding first the mechanism of injury. He publishes a personal-injury quarterly for the Arizona Association of chiropractic and is a contributing Editor to attorney at law magazine.

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