

Clinical and Medical Case Reports

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Rear-end collisions: An antecedent for rotator cuff tears

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Statement of the Problem: Rotator cuff tears have been reported to occur in a significant amount of patients following a rear-end collision. This compromises the quality and integrity of the rotator cuff, leading to progressive degeneration and failure. Rotator cuff injuries are often found in sports injury, however, high-speed collisions cannot be excluded. The greater the force exerted in the collision, the greater the likelihood of a serious shoulder injury. As the driver grips the steering wheel, the impact striking the vehicle exudes a powerful force through the shoulders. This causes damage to the skin by pushing the tendons beyond their limits, resulting in rotator cuff tears. In this study, we aim to examine these findings to establish the association between partial and complete rotator cuff tears to rear-end motor vehicle accidents.

Methodology & Theoretical Orientation: We examined 326 patients from January 2018 to May 2018, 150 of whom were confirmed with partial and complete rotator cuff tears from an Orthopedic Clinic. Database records were reviewed from 150 patients, mean age 48 ranging from 28 to 70 years of age. There were 87 drivers, 53 front seat passengers, and 10 back seat passengers, all of which were wearing seat belts.

Findings: 150 patients were found to have partial or complete rotator cuff tears status post rear-end motor vehicle accidents, confirmed via MRI and physical examinations prompting orthopedic consultation and inevitable repair to avoid further damage.

Biography

Asia Filatov is a current Neurology Resident at Florida Atlantic University, Charles E Schmidt College of Medicine. She is a graduate of the Caribbean Medical University School of Medicine. Dr Filatov obtained a BS in Biology from Stony Brook University and an MBA from Plymouth State University in Business administration in Health Care. She is also a candidate for PhD in Health Service with a concentration in Health administration from Walden University. Dr Filatov is a dedicated research scientist emphasizing evidence-based medicine, integrating her clinical expertise with research methodology and patient values.

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