

Mark Sochor

PIZIALI & ASSOCIATES BIOENGINEERING AND ACCIDENT ANALYSIS

Mark R. Sochor, M.D., M.S., FACEP

Dr. Sochor is an expert in the areas of emergency medicine, biomechanics, vehicular injury analysis, post-mortem injury identification, restraint system analysis, automotive crashworthiness, occupant kinematics, and computer analysis of human motion. He continues to work as an attending emergency physician at the University of Virginia. He actively researches and publishes on the effects of trauma on the human body through his appointment in the University of Virginia School of Engineering and Applied Science.

Background and Professional Honors

B.S. (Mechanical Engineering), Michigan State University

M.S. (Mechanical Engineering), Wayne State University

M.D., Wayne State University School of Medicine

Managing Engineer, Piziali & Associates, Inc.

Associate Professor, Emergency Medicine and School of Engineering and Applied Science, University of Virginia

Associate Professor, University of Michigan

Chrysler Institute of Engineering Program Graduate

Safety Development Engineer, Jeep and Truck Engineering, Chrysler Corporation

Injury Research Fellow, University of Michigan CIREN Center

CIREN Medical Fellow, U.S. DOT National Highway Transportation Safety Administration (2002-2004)

Resident in Emergency Medicine, Detroit Receiving Hospital and University Health Center

Assistant Research Scientist, Transportation Research Institute, University of Michigan

Assistant Professor, Department of Emergency Medicine, University of Michigan

Track Physician, NASCAR and IRL, Michigan International Speedway

Deputy Medical Examiner of Jackson County, MI (2002 – 2008)



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Professional Affiliations

Board Member, Virginia College of Emergency Physicians

Co-editor - Traffic Injury Prevention

Reviewer - American Journal of Emergency Medicine

Board Member, Association for the Advancement of Automotive Medicine (AAAM)

Board Member, American Trauma Society (ATS)

Committee Member, American College of Emergency Physicians (ACEP) EMS

Committee Member, American College of Emergency Physicians Trauma Care and Injury Control

Committee Member, American College of Emergency Physicians Public Health and Injury Prevention

American College of Emergency Physicians Liaison to the American Trauma Society

Chairman, American College of Emergency Physicians Section for Trauma and Injury Prevention

Secretary/Treasurer/Editor, American College of Emergency Physicians Section for Trauma and Injury Prevention

Affiliate, American College of Surgeons

Society for Academic Emergency Medicine (SAEM)

Society of Automotive Engineers (SAE)

American College of Emergency Physicians Section Grant Task Force

Selected Presentations

M.R. Sochor, "Post Mortem Computed Tomography and the Identification of Traumatic Injuries," New York City Medical Examiner Grand Rounds, New York, NY, 2007.

M.R. Sochor, "Forensic Evidence Gathering," Emergency Medicine Resident Conference, 2006.

M.R. Sochor, "Biomechanics of MVC Injury," Innovations in Emergency Care Conference (pre-hospital provider conference sponsored by Beaumont Hospitals), 2005 and 2006.

M.R. Sochor, "Traumautopsy: The Benefit of Radiologic Detail for Documenting Fatal Injury Patterns," SAE Government Industry Meeting, Washington DC, 2005.

M.R. Sochor, "Medical Edit Checks for CIREN Medical Database," CIREN Public Meeting, Crash Injury Research and Engineering Network, Cambridge, MA, 2005.

M.R. Sochor, "Rib Fracture Documentation Technique," CIREN Public Meeting, Crash Injury Research and Engineering Network, Cambridge, MA, 2005.

M.R. Sochor, "Traumautopsy

Protocol: An Evaluation of Postmortem Computed Tomography Combined with Accident Reconstruction for Analyzing Fatal Motor Vehicle Crash Injuries," National Injury Prevention and Control Conference, Denver, CO, 2005.

Selected Publications

R. Kent, R. Salazar, J. Kerrigan, D. Parent, D. Lessley, M. Sochor, J.F. Luck, A. Loyd, Y. Song, R. Nightingale, C.R. Bass, M.R. Maltese, "Pediatric Thoracoabdominal Biomechanics," Stapp Car Crash Journal, Vol. 53, Nov. 2009.

M.P. Reed, M.M. Sochor, J.D. Rupp, K.D. Klinich, and M.A. Manary, "Anthropometric Specification of Child Crash Dummy Pelves Through Statistical Analysis of Skeletal Geometry," Journal of Biomechanics, 42(8) 1143-1145, May 2009.

M.R. Sochor, M. Trowbridge, A. Boscak, J. Maino, and R. Maio, "Postmortem Computed Tomography as an Adjunct to Autopsy for Analyzing Fatal Motor Vehicle Crash Injuries: Results of a Pilot Study," Journal of Trauma, 65(3), Sep. 2008.

K.D. Klinich, C.A.C. Flannagan, J.D. Rupp, M.R. Sochor, L.W. Schneider, and M.D. Pearlman, "Fetal Outcome in Motor-Vehicle Crashes: Effects of Crash Characteristics and Maternal Restraint," American Journal of Obstetrics & Gynecology, 2008.

M.R. Sochor, A. Boscak, and R. Maio, "Traumautopsy: Pilot Study for the Identification of Injury Patterns in Fatal Motor Vehicle Crashes," Society of Automotive Engineers, 2008-01-0178, 2008.

M. Chong, M. Sochor, K. Ipaktchi, C. Brede, C. Poster, and S. Wang, "The Interaction of Occupant Factors on Lower Extremity Fractures in Frontal Collision of Motor Vehicle Crashes Based on a Level 1 Trauma Center," Journal of Trauma, 62(3) 720-729, 2007.

K.A. McCullough, J.M. Scarboro, M.R. Sochor, and R. Sharma, "Elderly Occupant Injury: A Detailed Analysis of Injury Patterns and Quality of Life Indicators," Enhanced Safety of Vehicles, 06-0277, 2007.

J.M. Scarboro, R.A. Rudd, and M.R. Sochor, "Near-Side Occupants in Low Delta-V Side-Impact Crashes: Analysis of Injury and Vehicle Damage Patterns," Enhanced Safety of Vehicles, 06-0286, 2007.

P.F. Ehrlich, J.K. Brown, M.R. Sochor, S.C. Wang, and Eichelberger, "Factors Influencing Pediatric Injury Severity Score (ISS) and Glasgow Coma Scale (GCS) in Pediatric Automobile Crashes: Results from the Crash Injury Research Engineering Network (CIREN)," Journal of Pediatric Surgery, 41(11):1854-8, 2006.

M.R. Sochor, D.P. Faust, K.F. Anderson, S. Barnes, S.A. Ridella, and S.C. Wang, "Assessment of 3- and 6-Year-Old Neck Injury Criteria Based on Field Investigation, Modeling, and Sled Testing," Society of Automotive Engineers, 2006-01-0253, 2006.

N.L. Ritchie, S.C. Wang, M.R. Sochor, and L.W. Schneider, "A Method for Documenting Locations of Rib Fractures for Occupants in Real-World Crashes Using Medical Computed Tomography (CT) Scans," Society of Automotive Engineers, 2006-01-0250, 2006.

S.C. Rowe, M.R. Sochor, K.S. Staples, W.L. Wahl, and S.C. Wang, "Pelvic Ring Fractures: Implications of Vehicle Design, Crash Type, and Occupant Characteristics," Surgery, Vol. 136, Issue 4, 842-847, 2004.

M.R. Sochor, D.P. Faust, H. Garton, et al., "Simulation of Occipitoatlantoaxial Injury Utilizing a MADYMO Model," Society of Automotive Engineers, 2004-01-0326, 2004.

P.R. Weber, S.J. Cassatta, M.R. Sochor, et al., "Lateral Air Bag Performance in CIREN Field Studies," Society of Automotive Engineers, 2004-01-0331, 2004.