CURRICULUM VITAE

MICHAEL D. FREEMAN

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EDUCATION:

Doctor of Medicine (Med.Dr.)
Faculty of Medicine, Umeå University, Umeå, Sweden

Doctor of Philosophy (Ph.D.) Public Health/ Epidemiology
Oregon State University, Corvallis, Oregon

Master of Science in Forensic Medical Science (MScFMS)
Academy of Forensic Medical Sciences, London, England
University of Verona, Verona, Italy

Master of Public Health (MPH), Epidemiology/ Biostatistics
Oregon State University, Corvallis, Oregon

Doctor of Chiropractic (DC)
University of Western States, Portland, Oregon

Bachelor of Science (BS) General Science
University of Oregon, Eugene, Oregon

FORENSIC MEDICINE QUALIFICATIONS:

David Jenkins Memorial Professor and Chair in Forensic and Legal Medicine
Faculty of Forensic and Legal Medicine, Royal College of Physicians (2024-25)

Fellow, Royal College of Pathologists (FRCPath)
Specialist Area: Forensic Pathology
Royal College of Pathologists, London, United Kingdom, 2023 to present

Fellow, Faculty of Forensic and Legal Medicine (FFFLM)
Royal College of Physicians, London, United Kingdom, 2022 to present (FRCP equivalent)

Fellow, Forensic Pathology
Academy of Forensic Medical Sciences, London, UK

Member, Faculty of Forensic and Legal Medicine (MFFLM)
Royal College of Physicians, London, United Kingdom, 2021 to present (MRCP equivalent)

Member, British Association in Forensic Medicine (elected professional association for forensic pathologists in the United Kingdom and Ireland), 2022 to present

Diploma of Legal Medicine (DLM)
Faculty of Forensic and Legal Medicine, Royal College of Physicians, London, United Kingdom, 2019

FELLOWSHIPS:

Fulbright Specialist Roster
Bureau of Educational and Cultural Affairs and World Learning,
United States Department of State, 2017-2020 tenure

Postdoctoral Fellowship
Forensic Pathology
Section of Forensic Medicine, Department of Community Medicine and Rehabilitation,
Umeå University, Umeå, Sweden, 2014-15

ACADEMIC POSITIONS:

Regular Faculty Appointments

Associate Professor of Forensic Medicine and Epidemiology – 2018 (permanent tenured appointment)
Department of Epidemiology
CAPHRI Research Institute for Public Health and Primary care
Faculty of Health, Medicine, and Life Sciences
Maastricht University Medical Centre+
Maastricht, The Netherlands

Associate Professor of Forensic Medicine – 2015-18
Department of Cell Biology and Complex Genetics
CAPHRI Research Institute for Public Health and Primary care
Faculty of Health, Medicine, and Life Sciences
Maastricht University Medical Centre+
Maastricht, The Netherlands

Clinical and Affiliate Appointments

Affiliate Professor of Psychiatry
Department of Psychiatry – 2023 to present
School of Medicine, Oregon Health & Science University
Portland, Oregon

Joint Clinical Professor, Psychiatry and Public Health & Preventive Medicine – 2016 to 2023
Department of Psychiatry
School of Medicine, Oregon Health & Science University
Portland, Oregon

Affiliate Professor of Epidemiology – 2010-15
Department of Public Health and Preventive Medicine
School of Medicine, Oregon Health & Science University
Portland, Oregon

Affiliate Professor of Psychiatry – 2011 to 2016
Department of Psychiatry
School of Medicine, Oregon Health & Science University
Portland, Oregon

Clinical/Affiliate Associate Professor – 2005-10
Department of Public Health and Preventive Medicine
School of Medicine, Oregon Health & Science University
Portland, Oregon

Clinical Assistant Professor – 1997-2005
Department of Public Health and Preventive Medicine
School of Medicine, Oregon Health & Science University
Portland, Oregon

Visiting Professorships

Visiting Professor of Medical Science – August 2020-April 2021
Faculty of Medicine, University of Indonesia
Jakarta, Indonesia

Adjunct Appointments

Adjunct Professor of Forensic Epidemiology and Traumatology – 2012-17
Department of Forensic Medicine, Faculty of Health Sciences, Aarhus University
Aarhus, Denmark

Adjunct/Honorary Associate Professor of Epidemiology and Traumatology – 2012-17
Department of Forensic Medicine, Faculty of Health Sciences, Aarhus University
Aarhus, Denmark

Adjunct Associate Professor of Forensic Medicine and Epidemiology – 2005-12
Institute of Forensic Medicine, Faculty of Health Sciences, Aarhus University
Aarhus, Denmark

Adjunct Professor – 2015-16
University of Western States
Portland, Oregon

EDITORIAL ACTIVITIES:

Editor in Chief: *Journal of Forensic and Legal Medicine,* 2025-present

Editor: Special Issue on Caribbean medicolegal issues
Journal of Forensic and Legal Medicine, 2025

Editor: Special Issue on death in custody
Journal of Forensic and Legal Medicine, 2025

Lead Guest Editor, Special Issue on Forensic Epidemiology:
International Journal of Environmental Research and Public Health, 2020

Co-Editor in Chief:
Journal of Whiplash-Related Disorders 1999-2006

Associate Editor:
Journal of Forensic and Legal Medicine, 2022 to present
BMC Musculoskeletal Disorders, 2019-2025
The Spine Journal 2007-present
PM&R, official scientific journal of the American Academy of Physical Medicine and Rehabilitation, 2008 to 2023
Scandinavian Journal of Forensic Medicine, 2012 to present
J of Forensic Biomechanics, 2010-present
OA Epidemiology, 2014

Editorial Board Member:
International Journal of Medical Justice, 2025 – present (chair of global advisory board)
Journal of Forensic and Legal Medicine, 2022 to 2024
International Journal of Environmental Research and Public Health, 2019-2023
Forensic Science International Reports, 2019 to present
Orthopedics, 2019 to present
Top 10 Reviewer 2019, *Orthopedics*
The Spine Journal, 2004 to present
International Research Journal of Medicine and Medical Sciences, 2015
Egyptian Journal of Forensic Sciences, 2010 to present
Journal of Case Reports in Practice 2014 to present
Austin Journal of Public Health & Epidemiology 2014-16
Edorium Journal of Public Health, 2014

Advisory Board Member:
Challenges 2020-present

Editorial Committee Member:
Spineline 2004-09

Peer reviewer:
Safety and Health at Work (Elsevier)
Journal of Vascular and Interventional Radiology
BMC Musculoskeletal Disorders

BMC Public Health
BMC Research Notes
Annals of Epidemiology (outstanding reviewer status 2015)
Orthopedics
Spine
The Spine Journal
Lancet
Mayo Clinic Proceedings
Annals of Biomechanical Engineering
Journal of the American Board of Family Medicine
Journal of Forensic and Legal Medicine
Acta Neurologica Scandanavica
Medical Science Monitor
Pain Research & Management
Journal of Back and Musculoskeletal Rehabilitation
American Society for Testing and Materials (ASTM)
Biosecurity & Bioterrorism
Annals of Medical and Health Sciences Research
Neurorehabilitation and Neural Repair
International Research Journal of Medicine and Medical Sciences
Jurimetrics
Law, Probability, and Risk
International Journal of Molecular Sciences
Journal of Rehabilitation Medicine
Arthritis
BMC Pediatrics
Journal of Back and Musculoskeletal Rehabilitation
Diagnostic and Interventional Radiology
Healthcare
Expert Review of Medical Devices
BMC Cancer

COURSES TAUGHT:

PHPM 574 Forensic & Trauma Epidemiology
Department of Public Health and Preventive Medicine
Oregon Health & Science University School of Medicine
Portland, Oregon 2006-2013

Principles of Forensic Medicine and Forensic Epidemiology
Forensic Psychiatry Fellowship
Department of Psychiatry
Oregon Health & Science University School of Medicine
Portland, Oregon – 2011 to present

PHPM 503 Thesis Advising
Department of Public Health and Preventive Medicine
Oregon Health & Science University School of Medicine
Portland, Oregon 2005-present

PHPM 507 Injury and Trauma Epidemiology
Department of Public Health and Preventive Medicine
Oregon Health & Science University School of Medicine
Portland, Oregon 1999 – 2005

Forensic Epidemiology and Bioterrorism
Charles County Department of Public Health
College of Southern Maryland, Waldorf, Maryland 2014

ACTIVITIES and HONORS:

David Jenkins Memorial Trust Professor and Chair of Forensic and Legal Medicine, Faculty of Forensic and Legal Medicine, Royal College of Physicians - 2024-5

Chair, Research subcommittee, Faculty of Forensic and Legal Medicine, London, UK, 2021-present

Vice Chair, American Academy of Forensic Sciences Standards Board Medicolegal Death Investigation Consensus Body – 2016-2023

Member, Academic committee, Faculty of Forensic and Legal Medicine, Royal College of Physicians, London, UK, 2021-present

Member, Academic advisory board, Academy of Forensic Medical Sciences, UK. 2021-present.

Member, Human factors subcommittee, Organization of Scientific Area Committees (OSAC) for Forensic Science, United States National Institute of Science and Technology (NIST), 2023-present

Appointed member, Office of Chief Medical Examiner death in custody audit design team, Maryland Attorney General, Baltimore, MD, 2021-present

Member, Global Academy of Forensic and Investigative Medicine and Science, 2025 - present

Affiliate Member, Faculty of Forensic and Legal Medicine, Royal College of Physicians, London, UK, 2016-2021

Chair, Maastricht Science in Court (MSiC) conference, Faculty of Law, Maastricht University, Maastricht, NL, September 29, 2023

Faculty, course designer and keynote speaker, "*When Science Meets Law: Forensic Epidemiology in Medicolegal Practice."* Summer school course, Radboud Medical Center, Nijmegen, Netherlands, August 13-17, 2018.

Fulbright fellowship, US Department of State, *Forensic Epidemiology in Forensic Medicine*, March 2018, Maastricht, Netherlands.

Senatorial letter of commendation, Louisiana Senate (Sen. Jon Milkovich), January 25, 2017.

Keynote speaker, Gran Sesión de Epidemiología Forense. November 18, 2016 Universidad Libre, Seccional Cali, Colombia.

Member, American Academy of Forensic Sciences Standards Board Medicolegal Death Investigation Consensus Body – 2016 to 2023

Affiliate Medical Examiner, Allegheny County, Pennsylvania, 2014 to 2024

Member, Scientific Advisory Board, International Conference on Forensic Inference and Statistics. August 2014, Leiden, The Netherlands

Reviewer, National Aeronautical Space Administration (NASA) 2011

Past president, International Cellular Medicine Society, 2009 to 2012

Founding member, International Cellular Medicine Society, 2009

Member, Research Planning Committee, North American Spine Society 2007-2009

Member, Complementary Medicine Committee, North American Spine Society 2007-2009

Special Deputy Sheriff (Forensics), Vehicular Homicide Investigator, Clackamas County, Oregon, 2007-2009

Member, Crash Reconstruction and Forensic Technology (CRAFT) multidisciplinary law enforcement fatal crash investigation team, Clackamas County, Oregon, 2002-2013

Consultant Forensic Trauma Epidemiologist to the Medical Examiner Division of the Oregon Department of State Police – Occupant Kinematics, 1999-2006

Deputy Medical Examiner, Marion County, Oregon. 2000-2005

Moderator, Engineering sciences section, American Academy of Forensic Sciences 62nd Annual Meeting, Seattle, WA 2010

Co-Chair, International Whiplash Trauma Congress V, Lund, Sweden. 2011

Co-Chair, International Whiplash Trauma Congress IV, Miami, FL. October 2007.

Co-Chair, International Whiplash Trauma Congress III, Portland, OR. June 2006.

Co-Chair, International Whiplash Trauma Congress II, Breckenridge, CO. February 2005.

Co-Chair, International Whiplash Trauma Congress I, Denver, CO. October, 2003

Co-Chair, Forensic Section, International Traffic Medicine Association. Budapest, Hungary. September, 2003

Member, Blue Ribbon Panel Congressional Task Force on roller coaster-induced brain injury. Funded by a grant from the National Institute of Child Health and Human Development 2002-2003

President, Spinal Injury Foundation. Denver, CO 2002-2009
Member, Marion-Polk County C.R.A.S.H. Team - Occupant Kinematics Consultant 1999-2004
Scientific Chair, North American Whiplash Trauma Congress. Victoria, British Columbia 1999

BOARD CERTIFICATION AND ORGANIZATIONS:

Royal College of Pathologists, London, (UK)
- Fellow 2023 - present

Faculty of Forensic & Legal Medicine, Royal College of Physicians, London, UK
- Fellow 2022 - present
- Member 2021 - 2022
- Affiliate Member 2018 - 2021

American Academy of Forensic Sciences, Pathology/ Biology section
- Fellow 2016 - present
- Member 2008 - 2016

Academy of Forensic Medical Sciences, UK
- Fellow 2021-present

American College of Epidemiology
- Fellow 2019 - present
- Member 2007 – 2019

Royal Society for Public Health, UK
- Fellow 2022 - present

Royal College of Physicians, London UK
- Associate member 2021 - present

British Association in Forensic Medicine
- Member 2022 - present

American Society of Biomechanics
- Member #6845 2023 - present

Accreditation Commission on Traffic Accident Reconstruction (ACTAR)
- Accredited #1581 2005 - 2029

Basic and Advanced Cardiac Life Support (BLS and ACLS) certified (exp. June 2026)
Crash Data Retrieval Technician I & II
Certification in basic and advanced crash reconstruction - Northwestern University
Diplomate, American Academy of Pain Management
Member, Fulbright Association
Member, American College of Epidemiology (2007-2019)
Member, Association for the Advancement of Automotive Medicine
Member, Sigma Xi Scientific Honor Society
Member, Society of Automotive Engineers
Past member, International Traffic Medicine Association
Fellow, International College of Chiropractic
Inactive member, North American Spine Society
Past member, Forensic Accident Reconstructionists of Oregon

GRANTS:

2020-present Unrestricted grant, private donor. Evaluation of upper cervical CSF flow alterations in retired NFL players with chronic head injury. $250,000.

2017-2020 Fulbright scholarship*,* Fulbright Specialist program, Bureau of Educational and Cultural Affairs and World Learning, United States Department of State.

2015 National Science Foundation Industry/University Cooperative Research Centers Program, NSF 13-594 Planning Grant: I/UCRC for Advanced Research in Forensic Science, National Center for Research on Forensic Epidemiology. Principal Investigator.

2011-2013 World Health Organization – research grant for Rwandan study of relationship between genocide and suicide and homicide victimization and offending. $50,000. Project No: AFRWA 1005685, Award No: 53975.

2010-2015 Centers for Disease Control (Administered by National University of Rwanda and OHSU) SPH/CDC $200,000 over 4 years.
2002-2003 National Institute of Child Health and Human Development – Blue Ribbon Task Force on Roller Coaster Associated Brain Injury. $75,000.

DISSERTATION SUPERVISION:

Joshua Goldenberg – PhD candidate, School for Public Health and Primary Care, Maastricht University Medical Center (2023 to present)
Rebecca Rodrigues MSc – PhD candidate, School for Public Health and Primary Care, Maastricht University Medical Center (2022 to present)
Ellen Strömmer MPH – PhD candidate, CAPHRI School for Public Health and Primary Care, Maastricht University Medical Center (2018 to present)
David Brunarski MSc - PhD candidate, CAPHRI School for Public Health and Primary Care, Maastricht University Medical Center (2019 to 2021)
Wendy Leith MS MPH – PhD candidate, CAPHRI School for Public Health and Primary Care, Maastricht University Medical Center (2018 to present)
Paul Nolet MPH, MSc – PhD candidate, CAPHRI School for Public Health and Primary Care, Maastricht University Medical Center (2017 to present)
Huijie Wang M.Med. – PhD candidate, CAPHRI School for Public Health and Primary Care, Maastricht University Medical Center (2017-2018)
Dritan Bijko MD MSc – PhD candidate, CAPHRI School for Public Health and Primary Care, Maastricht University Medical Center (2017)
Putri Dianita MD MSc – PhD candidate, CAPHRI School for Public Health and Primary Care, Maastricht University Medical Center (2015 to 2022)
Frank Franklin Ph.D., J.D. (2013), Earle Mack School of Law, Drexel University
Bonnie Colville-Ebeling MD – PhD candidate (2012-15) University of Copenhagen, Faculty of Health Sciences, Department of Forensic Medicine
Dimitrios Papadakis BSc, MRes, Dr.rer.nat. (2012-2015) independent mentoring
Wendy Leith MS – MPH (2015) Department of Public Health & Preventive Medicine, Oregon Health & Science University School of Medicine
Konrad Dobbertin – MPH (2011) Department of Public Health & Preventive Medicine, Oregon Health & Science University School of Medicine
Apostolo Alexandridis – MPH (2011) - Department of Public Health & Preventive Medicine, Oregon Health & Science University School of Medicine
Wilson Rubanzana MD – PhD (2016) National University of Rwanda, School of Public Health, Kigali, Rwanda
Catherine Maddux-Gonzalez – MPH (2009) – Department of Public Health & Preventive Medicine, Oregon Health & Science University School of Medicine
Laura Criddle MS, RN – PhD (2008) Oregon Health & Science University School of Medicine, School of Nursing
Peter Harmer PhD – MPH (2006) Department of Public Health & Preventive Medicine, Oregon Health & Science University School of Medicine

PUBLICATIONS:

Peer-reviewed journal articles

1. **Freeman MD**, Walker AE. Caribbean CSI: Proceedings of the 7th Annual Caribbean Medicolegal and Forensic Symposium; Bridgetown, Barbados, November 16-18, 2023. *J Foren Leg Med* https://doi.org/10.1016/j.jflm.2026.103080.

2. Thompson WC, Kukucka J, Davis D, **Freeman MD**. An Independent Audit of Restraint-Related Death Investigations in Maryland. (In review)

3. **Freeman MD.** Forensic Herald: Misadventures in peer review - Part I: Spinal disc injuries and traffic crashes. *J Foren Leg Med* https://doi.org/10.1016/j.jflm.2025.103017

4. Batson RD, Goldenberg JZ, Wexler R, Chua E, Yuen A, **Freeman MD**, Wexler T, High Jr. W, Yuen KCJ. Outcomes of Recombinant Growth Hormone Treatment in the Traumatic Brain Injury Population: A Scoping Review. *Best Pract Res Clin Endocrinol Metab* 2025 May;39(3):102015. doi: 10.1016/j.beem.2025.102015.

5. Leith WM, Zeegers MP, **Freeman MD**. Diagnostic accuracy of presumptive indicia of infant abusive head trauma in the absence of corroborative injury. (in process)

6. Strömmer EMF, Zeegers MP, Vanezis P, **Freeman MD**. The role of coagulopathy in the diagnosis of abusive head trauma. (in process)

7. Nolet P, Zeegers M, Leith WM, **Freeman MD**. How many cervical spinal disk surgeries are caused by traffic crashes? A comparison of US national and state hospital data with patient histories from a spine surgery practice. (in process)

8. Batson RD, Wexler R, Yuen A, Chua E, Goldenberg JZ, **Freeman MD**, Wexler T, High Jr. W, Yuen KCJ. Neurocognitive and neuropsychiatric abnormalities in patients with TBI-induced hypopituitarism. *Best Practice & Research Clinical Endocrinology & Metabolism.* 2025 (pre-publication, submitted scoping review protocol)

9. Rodrigues R, Wootten J, Anderson KK, Stranges S, Wilk P, **Freeman MD**, Zeegers MP. Forensic mental health service use in early psychosis: a scoping review. *Soc Psych Psychiat Epidem* (in press)

10. Goldenberg J, Batson RD, Pugh MJ, Zwickey H, Beardsley J, Zeegers MP, **Freeman MD.** The cumulative incidence of post-traumatic epilepsy after mild traumatic brain injury: a systematic review and individual-participant data meta-analysis protocol. *J Neurotrauma* Reports 2024;5(1):522-8.

11. **Freeman MD**. Reflections on editorial and peer review in the forensic medical literature. *J Forensic Leg Med* 2024;108:102760.

12. **Freeman MD,** Strömmer EMF, Leith WM, Zeegers MP. Response to "More on the role of restraint in fatal excited delirium. *For Sci Med Path* 2024 https://doi.org/10.1007/s12024-023-00736-w.

13. Strömmer EMF, Leith WM, Zeegers MP, **Freeman MD.** Injuries due to police use of force in the United States, 2006-2015: Trends in severity and by race. *J Racial Ethn Health Disparities*. 2023 https://doi.org/10.1007/s40615-023-01733-z

14. **Freeman MD,** Strömmer EMF, Leith WM, Zeegers MP. Response to "Scrutinizing the causal link between excited delirium syndrome and restraint – A commentary on: 'The role of restraint in fatal excited delirium: a research synthesis and pooled analysis' by E.M.F. Strömmer, W. Leith, M.P. Zeegers and M.D. Freeman." *For Sci Med Path* 2023 https://doi.org/10.1007/s12024-023-00616-3.

15. Leith WM, Zeegers MP, **Freeman MD.** A predictive model for perinatal hypoxic ischemic encephalopathy using linked maternal and neonatal hospital data. *Annals Epidemiol* 2024 https://doi.org/10.1016/j.annepidem.2023.11.011

16. **Freeman MD,** Mittner BS. Prone Restraint and Excited Delirium; policy recommendations to reduce preventable deaths in police custody. *J Forensic Leg Med* (in press)

17. Kaale BR, McArthur TJ, Barbarosa MH, **Freeman MD.** Post-traumatic atlanto-axial instability: A combined clinical and radiological approach for the diagnosis of pathological rotational movement in the upper cervical spine. *J Clin Med* 2023, *12*, 1469. https://doi.org/10.3390/1469.

18. Katz E, Katz S, **Freeman MD.** Non-surgical management of upper cervical instability via improved cervical lordosis: a case series. *J Clin Med* 2023, 12, 1797.https://doi.org/10.3390/jcm12051797

19. **Freeman MD**, Strömmer EMF. re: Dror and Kukucka, Linear Sequential Unmasking–*Expanded* (LSU-*E*): A general approach for improving decision making as well as minimizing noise and bias. *For Sci Int Syn* 2021 https://doi.org/10.1016/j.fsisyn.2021.10 019.

20. **Freeman MD.** Principles and methods for evidence-based quantification of the effect of seatbelt non-use in crash-related litigation. *Int J Environ Res Public Health* 2021:18,9455. https://doi.org/10.3390/18189455.

21. Dianita Ika Melia P, Zeegers MP, Herkutanto H, **Freeman MD**. Medicolegal causation investigation of bacterial endocarditis associated with an oral surgery practice using the INFERENCE approach. *Int J Environ Res Public Health* 2021:18,7530. https://doi.org/10.3390/ijerph18147530.

22. Nolet PS, Nordhoff L Kristman KL, Croft AC, Zeegers MP, **Freeman MD.** Is acceleration a valid proxy for injury risk in minimal damage traffic crashes? A comparative review of volunteer, ADL and real-world studies. *Int J Environ Res Public Health* 2021;18:2901; https://doi.org/10.3390/ijerph18062901.

23. Dianita Ika Melia P, Zeegers MP, Herkutanto H, **Freeman MD**. Development of the INFERENCE (**IN**tegration of **F**orensic **E**pidemiology and the **R**igorous **E**valuatio**N** of **C**ausation **E**lements) approach to causal inference in forensic medicine. *Int J Environ Res Public Health* 2020;17:8353; doi:10.3390/ijerph17228353.

24. Strömmer EMF, Leith WM, Zeegers MP, **Freeman MD.** The role of restraint in fatal excited delirium: a research synthesis and analysis of the literature. *For Sci Med Path* 2020: doi.org/10.1007/s12024-020-00291-8.

25. **Freeman MD.** Forensic epidemiologic analysis of the cause of an unexpected teen suicide following ingestion of mis-dispensed isosorbide mononitrate. *For Sci Int Rep* 2020: doi.org/10.1016/j.fsir.2020.100093

26. Tønner G, **Freeman MD,** Rubenstein S. De waarde van chiropractie bij lagerugklachten. *Huisarts Wet* [Dutch Journal of General Practice Medicine] 2020:10.1007/s12445-020-0964-3.

27. Dianita Ika Melia P, Herkutanto H, Atmadja DS, Cordner S, Eriksson A, Kubat B, Kumar A, Payne-James J, Rubanzana W, Uhrenholt L, **Freeman MD**, Zeegers MP. The PERFORM-P (Principles of Evidence-based Reporting in FORensic Medicine-Pathology version) Guideline. *Forensic Sci Int Volume* 2021: 10.1016/j.forsciint.2021.110962.

28. Dianita Ika Melia P, **Freeman MD**, Herkutanto H, Zeegers MP. A review of causal inference in forensic medicine. *For Sci Med Path* 2020:doi.org/10.1007/s12024-020-00220-9.

29. **Freeman MD**, Katz EA, Rosa SL, Gatterman BD, Strömmer EMF, Leith WM. Diagnostic accuracy of videofluoroscopy for symptomatic cervical spine injury following whiplash trauma. *Int J Environ Res Public Health* 2020;17:1693 ; doi:10.3390/ijerph17051693

30. Centeno C, Cartier C, Stemper I, Dodson E, **Freeman MD**, Azuike U, Williams C, Hyzy M, Silva O, Steinmetz N. The treatment of bone marrow lesions associated with advanced knee osteoarthritis: comparing intra-osseous and intra-articular injections with bone marrow concentrate and platelet-rich plasma. *Pain Physician* 2021;24(3):E279-88

31. Nolet P, Emery P, Kristman E, Zeegers M, **Freeman MD**. Exposure to a motor vehicle collision and the risk of future back pain: a systematic review and meta-analysis. *Accid Analysis Prev* 2020:doi.org/10.1016/j.aap.2020.105546.

32. Uhrenholt L, Thomsen CK, Boel LWT, Hansen K, **Freeman MD**. The relationship between head and neck injuries and helmet use in fatal motorcycle and moped crashes. *Scand J For Sci* 2020;26(1):1-7.

33. **Freeman MD**, Leith WM. Estimating the number of traffic crash-related cervical spine injuries in the United States; an analysis and comparison of national crash and hospital data. *Accident Analysis and Prevention* 2020: doi:https://doi.org/10.1016/j. aap.2020.105571.

34. Nolet P, Emery P, Kristman E, Zeegers M. **Freeman MD**. Exposure to a motor vehicle collision and the risk of future neck pain: a systematic review and meta-analysis. *PM R* 2019 Apr 25. doi: 10.1002/pmrj.12173.

35. **Freeman MD.** Medicolegal investigation of *Vibrio parahaemolyticus*-related foodborne illness as the cause of Guillain-Barré Syndrome. *Forensic Science International: Reports* 2019:doi.org/10.1016/j.fsir.2019.100004.

36. **Freeman MD.** Concussion risk from helmeted sports; A reexamination of data and methods. *J Forensic Biomed* 2018;9:139. doi:10.4172/2090-2697.1000139.

37. Centeno C, Markle J, Dodson E, Stemper I, Hyzy M, Williams C, Ichim T, **Freeman MD** Symptomatic anterior cruciate ligament tears treated with percutaneous injection of autologous bone marrow concentrate: a non-controlled registry study *J Translational Med* 2018;16:246 https://doi.org/10.1186/s12967-018-1623-3.

38. Dianita Ika Melia P, **Freeman MD**, Herkutanto H, Zeegers MP. A review of the diversity in taxonomy, definitions, scope, and roles in forensic medicine: Implications for evidence-based practice. *For Sci Med Path* 2018;14(4):460-8.

39. Rubanzana W, Hedt-Gauthier BL, Ntaganira J, **Freeman MD**. Exposure to genocide as a risk factor for homicide perpetration in Rwanda: A population-based case-control study. *J Interpers Violence* 2018;33(12):1855-70.

40. Centeno C, Markle J, Dodson E, Stemper I, Hyzy M, Williams C, **Freeman MD**. A specific protocol of autologous bone marrow concentrate and platelet products versus exercise therapy for symptomatic knee osteoarthritis: a randomized controlled trial. *J Translational Med* 2018;16:355 https://doi.org/10.1186/s12967-018-1736-8.

41. **Freeman MD,** Leith WM. The epidemiology of tire failure-related traffic crashes. SAE Technical Paper 2018-01-5031, 2018, doi:10.4271/2018-01-5031.

42. **Freeman MD**. A practicable and systematic approach to medicolegal causation. *Orthopedics* 2018;41(2):70-2.

43. Centeno C, Markle J, Dodson E, Stemper I, Hyzy M, Williams C, **Freeman MD.** The safety and efficacy of using lumbar epidural injection of platelet lysate for treatment of radicular pain. *J Exp Orthopaedics* 2017;4:38.

44. Centeno C, Markle J, Dodson E, Stemper I, Williams C, Hyzy M, Ichim T, **Freeman MD.** Treatment of lumbar degenerative disc disease-associated radicular pain with culture-expanded autologous mesenchymal stem cells *J Translational Medicine* 2017;15:197.

45. Williams KE. **Freeman MD**. The role of the medical examiner/ coroner system in creating a public database for surveillance and information sharing on drug overdose deaths. *Academic Forensic Pathology*. 2017;7(1):60-72.

46. Leith W, Lambert W, Boehnlein J, **Freeman MD.** The association between gabapentin and suicidality in bipolar patients. *Int Clin Psychopharm* 2018 doi:10.1097/YIC.000000000242.

47. Centeno C, Markle J, Dodson E, Stemper I, Williams C, Hyzy M, **Freeman MD.** Symptomatic anterior cruciate ligament tears treated with percutaneous injection of autologous bone

marrow concentrate: a non-controlled prospective registry study. *BMC Musculoskeletal Disorders* (in press).

48. **Freeman MD,** Goodyear S, Leith W. Risk factors for neonatal brachial plexus injury; a multistate epidemiologic study of matched maternal and newborn discharge records. *Int J Gynecology & Obstetrics* 2017;136(3):331-336.

49. **Freeman MD, Zeegers M.** Forensic Epidemiology: An evidence-based system for analyzing individual causation in a medicolegal setting. *Austin J Public Health Epidemiol* 3(3):2016. ISSN: 2381-9014.

50. Westergren H, Larson L, Carlsson A, Joud A, **Freeman MD,** Malmstrom E-M. Sex-based differences in chronic pain distribution in a cohort of patients with post-traumatic neck pain. *Disabil Rehabil* 2017 DOI: 10.1080/09638288.2017.1280543

51. Nyström A, **Freeman MD.** Central sensitization is modulated following trigger point anesthetization in patients with chronic pain following whiplash trauma. A double-blind, placebo-controlled, cross-over study. *Pain Med* 2017;0:1-6.

52. **Freeman MD**, Zeegers M. Principles and applications of forensic epidemiology in the medicolegal setting. *Law, Probability, & Risk* 2015; doi:10.1093/lpr/mgv010.

53. Centeno CJ, Al-Sayegh H, **Freeman MD** et al. A multi-center analysis of adverse events among 2,372 adult patients undergoing adult autologous stem cell therapy for orthopedic conditions. *International Orthopedics* DOI 10.1007/s00264-016-3162-y.

54. **Freeman MD**. Medicolegal causation analysis of a lumbar spine fracture following a low speed rear impact traffic crash. *J Case Rep Prac* 2015; 3(2): 23-29.

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37. **Freeman MD**, Rosa S, Harshfield D, Smith F, Bennett RM, Centeno CJ, Kornel E, Nystrom A, Heffez D, Kohles SS. A case-control study of cerebellar tonsillar ectopia and cervical spine trauma. *European Congress of Radiology,* March 4-8, 2010, Vienna, Austria.

38. Uhrenholt L, **Freeman MD**. The Role of Microscopic Post-Mortem Study in Explaining Traffic-Crash Related Neck Injury; A Review. *Proceedings of 62nd Annual Meeting of the American Academy of Forensic Sciences*. Feb 2010, Seattle, Washington.

39. **Freeman MD**, Uhrenholt L, Newgard C. The effect of restraint use on skull vault fractures in rollover crashes. *Proceedings of 62nd Annual Meeting of the American Academy of Forensic Sciences* Feb 2010, Seattle, Washington.

40. **Freeman MD**, Uhrenholt L, Newgard C. Head injuries in lower speed collinear collisions; an analysis of the National Automotive Sampling System database. *Proceedings of 62nd Annual Meeting of the American Academy of Forensic Sciences* Feb 2010, Seattle, Washington.

41. **Freeman MD**, Rosa S, Harshfield D, Smith F, Bennett RM, Centeno CJ, Kornel E, Nystrom A, Heffez D, Kohles SS. A case-control study of cerebellar tonsillar ectopia and cervical spine trauma. *XXI Congress of the International Academy of Legal Medicine* May 2009 Lisbon, Portugal

42. **Freeman MD**. The Error Odds assessment of accuracy for tests in forensic medicine; a simple application of Bayes' Law. *XXI Congress of the International Academy of Legal Medicine* May 2009 Lisbon, Portugal

43. Uhrenholt L, Schumacher B, **Freeman MD**. A cross-sectional study of road traffic fatalities and vehicular homicide investigation practices in Denmark for 2000-2004. *Proceedings of 61st Annual Meeting of the American Academy of Forensic Sciences.* Feb 2009, Denver, Colorado.

44. **Freeman MD**, Centeno CJ. Etiologic and demographic characteristics of traffic crash-related disc injuries. *Spine J* doi:10.1016/j.spinee.2008.06.373.

45. **Freeman MD**. Bayesian analysis of predictive characteristics in suicidal versus homicidal hanging deaths: A case study in forensic epidemiology. *Proceedings of 59th Annual Meeting of the American Academy of Forensic Sciences* February 19-24, 2007, San Antonio, Texas 2007;13:304.

46. **Freeman MD**. Probability and pathological findings in suicide versus homicidal hanging deaths; a case study. *Proceedings of 16th Nordic Conference on Forensic Medicine* June 15-17, 2006, Turku, Finland 2006:15-6.

47. **Freeman MD**. Injury Pattern Analysis as a means of driver determination in a vehicular homicide investigation. *Proceedings of 16th Nordic Conference on Forensic Medicine* Turku, Finland June 15-17 2006:38-9.

48. **Freeman MD**. Injury Pattern Analysis in Fatal Traffic Crash Investigation. *Proceedings of 57th Annual Meeting of American Academy of Forensic Sciences* New Orleans, Louisiana. February 24, 2005.

49. **Freeman MD**, Croft AC, Centeno C. Fatal head injury cases in a rural Oregon county. *Proceedings of the 19th World Congress of the International Traffic Medicine Association* Budapest, Hungary, September 14-17, 2003.

50. Croft AC, Haneline MT, **Freeman MD**. Differential Occupant Kinematics and Forces Between Frontal and Rear Automobile Impacts at Low Speed: Evidence for a Differential Injury Risk, *International Research Council on the Biomechanics of Impact (IRCOBI)* Munich, Germany September 18-20, 2002:365-6.

51. Sparr L, **Freeman MD**. The Uses and Abuses of Psychiatric IMEs: An Ethical Dilemma? *American Psychiatric Association Annual Meeting* San Francisco, California May 2003.

52. Croft AC, Haneline MT, **Freeman MD**. Low speed frontal crashes and low speed rear crashes: is there a differential risk for injury? *Proceedings of the 46th Association for the Advancement of Automotive Medicine (AAAM) Annual Scientific Conference* Tempe, Arizona, September 29-October 2, 2002:79-91.

53. Croft AC, Lord S, **Freeman MD**. Whiplash Injury: Mechanisms of Injury, Pathophysiology, and Treatment *10th World Congress on Pain, International Association for the Study of Pain* San Diego, August 17-22, 2002:482.

54. **Freeman MD**, Centeno C, Croft AC, Nicodemus CN: Significant spinal injury resulting from low-level accelerations: a comparison with whiplash. *International Congress on Whiplash-Associated Disorders* Berne, Switzerland, March 9-10, 2001.

55. Croft AC, Haneline MT, **Freeman MD**. Differential occupant kinematics and head linear acceleration between frontal and rear automobile impacts at low speed: evidence for a differential injury risk. I*nternational Congress on Whiplash-Associated Disorders* Berne, Switzerland, March 9-10, 2001.

56. Croft AC, Haneline MT, **Freeman MD**. Automobile crash reconstruction in low speed rear impact crashes utilizing a momentum, energy, and restitution (MER) method. *International Congress on Whiplash-Associated Disorders* Berne, Switzerland, March 9-10, 2001.

57. Centeno C, **Freeman MD**, Croft AC. A comparison of the functional profile of an international cohort of whiplash injured patients and non-patients: an internet study. *International Congress on Whiplash-Associated Disorders* Berne, Switzerland, March 9-10, 2001.

58. **Freeman MD**, Sapir D, Boutselis A, Gorup J, Tuckman G, Croft AC, Centeno C, Phillips A. Whiplash injury and occult vertebral fracture: a case series of bone SPECT imaging of patients with persisting spine pain following a motor vehicle crash. *Cervical Spine Research Society 29th Annual Meeting* Monterey, CA, Nov 29-Dec 1, 2001.

59. Johansson BH, **Freeman MD**. The prevalence of symptomatic cervical disc herniation in the Swedish population with asymptomatic degenerative disc disease (a cross-sectional study). *International Congress on Whiplash Associated Disorders* March, 2001. Berne, Switzerland.

60. **Freeman MD**, Centeno C, Croft AC, Nicodemus C. Significant spinal injuries resulting from low-level accelerations: a case series of roller coaster injuries. *Proceedings of Cervical Spine Research Society 28th Annual Meeting,* November 30-December 2, 2000:110-1.

61. Croft AC, **Freeman MD**. An evaluation of the neck injury criterion; recommendations for future consideration. *Association for the Advancement of Automotive Medicine*, San Antonio, TX October, 2000.

62. **Freeman MD**. Meta-analysis of whiplash prognosis studies. Proceedings of Whiplash 2000, Bath, England. May 16-18, 2000. pp 102-24.

63. **Freeman MD**. The epidemiology of acute and chronic whiplash injury in the U.S. Proceedings of HWS-Distorsion (Schleudetrauma) & Leichte Traumatische, Hirnverletzung. Invaliditat und Berufliche Reintegration. Basel, Switzerland. June 29-30, 2000.

64. **Freeman MD**, Croft AC, Rossignol AM. The prevalence of whiplash-associated chronic cervical pain among a random sample of patients with chronic spine pain. *Proceedings of 27th Annual Cervical Spine Research Society Annual Meeting.* Seattle, WA December 13-15, 1999.

65. **Freeman MD**, Croft AC, Rossignol AM. Late whiplash risk factor analysis of a random sample of patients with chronic spine pain. *World Whiplash Associated Disorders Congress*, February 8-10, 1999, Vancouver, British Columbia

Scientific Letters

1. Nystrom NA, **Freeman MD**. Authors' Response. *Pain Med* 2018;19(4):816-7.

2. Uhrenholt L, Webb A, **Freeman MD**. Letter to the Editor regarding "Do X-ray-occult fractures play a role in chronic pain following a whiplash injury?" *Eur Spine J* DOI 10.1007/s00586-014-3362-3.

3. **Freeman MD**, Centeno CJ, Katz E. MR imaging of whiplash injury in the upper cervical spine; controversy or confounding? *Spine J* 2009 Sep;9(9):789-90. Epub 2009 Jun 17

4. Centeno CJ, **Freeman M**. Re: Are smooth pursuit eye movements altered in chronic whiplash-associated disorders? A cross-sectional study. *Clin Rehabil* 2008 Apr;22(4):377-8.

5. Centeno CJ, **Freeman MD**. Editorial Submission on Kongsted, A., et al., Are smooth pursuit eye movements altered in chronic whiplash associated disorders? A cross-sectional study. *Clin Rehabil* 2007;21(11):1038-49.

6. **Freeman MD**. Crash Test Dummy? *New Scientist* June 23, 2007:22-3.

7. **Freeman MD**, Centeno CJ, Merskey H, Teasell R, Rossignol AM. Greater injury leads to more treatment for whiplash: no surprises here. *Arch Int Med* 2006;166(11):1238-9.

8. Centeno C, **Freeman MD**. Alberta rodeo riders do not develop late whiplash. *J Rheumatol* 2007 Feb;34(2):451-2.

9. **Freeman MD**, Centeno C. Alar, Transverse and Apical Ligament Strain due to Head-Turned Rear Impact. *Spine* 2006;31(17):2030.

10. **Freeman MD**. Cervical disc herniation following motor vehicle crash trauma. Invited commentary. *Spine J* 2005 Nov-Dec;5(6):644.

11. **Freeman MD**, Centeno C. Whiplash and Peer Review *JWRD* 2003;2(2):1-3.

12. **Freeman MD**, Centeno C. Whiplash and Secondary Gain *JWRD* 2003;2(1):1-4.

13. **Freeman MD**, Centeno C. "Placebo" Collisions and Whiplash *JWRD* 2002;1(2):1-8.

14. **Freeman MD**. Biomechanics of minor automobile accidents. *J South Orthop Assoc* 2001 Summer;10(2):95-6.

15. **Freeman MD**. Are demolition derby drivers a valid proxy for the population at risk for whiplash injury? *Arch Neurol* 2001 Apr;58(4):680-1.

16. **Freeman MD**, Rossignol AM. Effect of eliminating compensation for pain and suffering on the outcome of insurance claims. *NEJM* 2000 Oct 12;343 (15):1118-9.

17. **Freeman MD**. Letter to the editor. *Cranio* 1999;17(3):160-1.

18. Croft AC, **Freeman MD**. Commentary on "Pain after whiplash: a prospective controlled inception cohort study." *The Back Letter* 1999;14(4):43-5.

19. **Freeman MD**, Croft AC. Late Whiplash Syndrome, 3rd reply. *Lancet* 1996 Jul 13;348(9020):125.

NATIONAL PRACTICE STANDARDS/ GOVERNMENT PUBLICATIONS:

Kukucka J, Thompson W, **Freeman MD**, Davis D, Walker A, Crane J. Report to the Office of the Attorney General of Maryland: Independent Audit of Restraint-Related Death Investigations at Maryland's Office of The Chief Medical Examiner (OCME) from 2003-2019.

American National Standards Institute (ANSI)/ American Standards Board (ASB) Standard 125-2021: Organizational and Foundational Standard for Medicolegal Death Investigation (Committee vice chair and co-author).

O'Shanick G, Varney N, **Freeman MD**, et al. Blue Ribbon Panel Review of the Correlation Between Brain Injury and Roller Coaster Rides (Report to US Congress, Funded by the National Institute of Child Health and Human Development). February 25, 2003.

MEDIA:

December 21, 2025 Katz, B. 'He Was Poisoned.' Toxic Fumes on Planes Blamed for Deaths of Pilots and Crew**.** https://www.wsj.com/business/airlines/toxic-fumes-airplane-pilot-crew-death-739fa3bb. Wall Street Journal.

May 15-16, 2025 Maryland OCME Audit coverage:

Media:
WMAR News (ABC2): 36 cases of in-custody deaths "should have been classified as a homicide," audit finds

WMAR News (ABC2) Follow-Up: Sister of man whose death was found to be homicide in OCME audit speaks out

WBFF News (FOX45): Maryland medical examiner audit reveals 50% of deaths miscategorized

WJZ News (CBS13): Former Maryland medical examiner misclassified police in-custody deaths that were homicides, audit finds

WJLA News (ABC7): Maryland medical examiner audit reveals 50% of deaths miscategorized

WTTG News (FOX5): Maryland audit finds racial bias in autopsies of police custody deaths

WBAL-TV News (NBC11): Audit finds prior Maryland medical examiner misclassified deaths of people in police restraint

WUSA News (CBS9): Autopsies misclassified in-custody deaths that were actually homicides, Maryland officials say

Print and radio:

*Baltimore Banner: Forensic failures: 36 police-custody deaths should have been ruled a homicide, audit finds

*Baltimore Banner Follow-Up: Here's what you need to know about Maryland's sweeping audit of police-custody deaths

*Washington Post: Maryland mislabeled 41 homicides involving police restraint, audit finds

*Baltimore Sun: Former chief medical examiner misclassified police custody deaths that were homicides

AP News: Autopsies misclassified deaths in police custody that were homicides, Maryland officials say

Moco Show: Audit Reveals Misclassified Deaths in Montgomery County and Statewide, Prompting Reforms in Maryland Medical Examiner's Office

Revolt: Gov. Wes Moore announces task force after audit reveals medical examiners misclassified deaths

The Daily Record: Autopsies misclassified in-custody deaths that were actually homicides, MD officials say

Daily Voice: Audit Finds Dozens Of Maryland In-Custody Deaths Wrongly Ruled Non-Homicides: AG

Southern Maryland Chronicle: Audit Slams OCME for Death Misclassifications

Southern Maryland News Net: Findings of Independent Audit of the Maryland Office of the Chief Medical Examiner Audit Identifies Significant Misclassifications of Deaths, Calls for Review of Cases and Systemic Reforms

Baltimore Beat: Tyrone West's death among 36 Maryland cases that should have been ruled homicides, audit finds

WBAL News Radio: Audit finds Maryland medical examiner misclassified deaths of people in police restraint

WYPR 88.1 FM: 36 in-custody deaths in Maryland should have been ruled homicides, audit finds

98ROCK Baltimore: Maryland audit finds dozens of police restraint deaths were misclassified

December 13, 2024 - https://www.sun-sentinel.com/2024/12/12/they-died-in-police-custody-their-deaths-are-attributed-to-a-disputed-but-very-real-phenomenon-called-excited-delirium/

October 6, 2024 - https://www.seattletimes.com/seattle-news/law-justice/two-wa-men-were-arrested-in-mental-health-crises-only-one-survived/

October 6, 2024 - https://www.seattletimes.com/seattle-news/times-watchdog/wa-death-was-natural-until-the-times-asked-why-heres-what-to-know/

July 31, 2023. Lawyers for Banbury nurse Benjamin Geen raise new evidence. Oxford Mail. https://www.oxfordmail.co.uk/news/23691796.lawyers-banbury-nurse-benjamin-geen-raise-new-evidence/

July 31, 2023. New evidence claimed to undermine Nurse's conviction for killing patients. The Guardian. https://www.theguardian.com/law/2023/jul/31/new-evidence-claimed-to-undermine-nurse-benjamin-geen-conviction-for-killing-patients

June 10, 2023 – The secret death of Darryl Dean Mefferd. *Open Vallejo.* https://openvallejo.org/2024/06/10/the-secret-death-of-darryl-dean-mefferd/

June 3, 2023. – St. Denis J. https://thetyee.ca/News/2023/06/02/Despite-Inquest-Evidence-Police-Use-Force-VPD-Stands-Ground/

April 17, 2023 – Lindsay B. Canadian coroners starting to reject excited delirium as cause of police-related deaths. *Canadian Broadcast Corporation.*

May 14, 2022 - Hollingsworth H. From 'crisis to death': probing teen's last, desperate hours. *The Associated Press.*

February 12, 2022 - Mannix, A. Minneapolis Police Department still teaching controversial 'excited delirium' syndrome — despite claiming it had stopped**.** *Minneapolis Star Tribune*.

January 2, 2022 - Wiggins, O. Review of cases under former Maryland medical examiner expected to get underway this year. *Washington Post.*

October 2, 2021 - Dewan, S. Subduing suspects face down isn't fatal, research has said. Now the research is on trial. *The New York Times.*

September 20, 2021 - Sernoffsky, E. 'Excited delirium' denounced long before controversial Antioch in-custody death. *FOX 2 KTVU.*

July 13, 2021 - Porter, C and Lopez, O. Haitians hope president's funeral is a moment of unity. *The New York Times.*

July 12, 2021 - Porter, C and Lopez O. Haitian officials say U.S.-based suspect in president's killing was seeking power. *The New York Times*.

April 11, 2021. Laughland, O. 'Excited delirium': the controversial defense that could be used in the Chauvin trail. *The Guardian.*

April 19, 2021 - Karnowski, S. EXPLAINER: Why 'excited delirium' came up at Chauvin trail? *The Associated Press.*

November 15, 2020 - Lyden, T. Excited Delirium dilemma: Explanation or excuse for in-custody deaths? *FOX 9 KMSP.*

August 25, 2020 - Cushing, T. Law enforcement training: People saying 'I can't breathe' are just suffering from 'Excited Delirium.' *TechDirt.*

June 8, 2020 - Koerth M. The two autopsies of George Floyd aren't as different as they seem. *FiveThirtyEight.*

SCIENTIFIC PRESENTATIONS and INVITED LECTURES:

1. Misclassification bias in prone restraint-related cause and manner of death determinations by Maryland's OCME: the role of excited delirium. 2026 Annual Conference of the American Psychology-Law Society, Reno, Nevada. March 12-14, 2026.
2. The David Jenkins Memorial Chair Lecture: the Role of innumeracy in wrongful convictions. 20th Anniversary Faculty of Forensic and Legal Medicine Annual Conference, Royal Liver Suite, Liverpool, UK. May 10, 2025.
3. The innumeracy of wrongful convictions and exonerations. University College of London, Criminal Law Centre, London, UK. May 8, 2025
4. Forensic epidemiology and death investigation in Forensic Medicine: Methods for Evidence-Based Practice. Core course lecture, Diploma of Forensic Medical Sciences curriculum, Academy of Forensic Medical Sciences, London, UK. October 10, 2024.
5. The role of forensic epidemiology in injury and death investigation. International webinar: The role of forensic medicine in preventive medicine. Department of Forensic Medicine, Dr. Hasan Sadikin General Hospital, Bandung, Indonesia. October 11, 2024.
6. Principles and practice of forensic epidemiology in death investigation. Department of Epidemiology, Faculty of Medicine, Health, and Life Sciences, Maastricht University, Maastricht, NL. June 19, 2024.
7. Research integrity in forensic medicine. 22nd Nordic Conference on Forensic Medicine, The Arctic University of Norway (UIT), Trømso, Norway. June 12-14, 2024
8. Principles and applications of Forensic Epidemiology in forensic death investigation: Keynote lecture. 22nd Nordic Conference on Forensic Medicine, The Arctic University of Norway (UIT), Trømso, Norway. June 12-14, 2024.
9. The role of *counterfactual causation* in the investigation of death in custody following prone restraint. Faculty of Forensic and Legal Medicine, Royal College of Physicians, 17th Annual Conference 2024. London, UK. May 10, 2024.

10. Challenges to improving research integrity in forensic medicine. 7th Annual Caribbean Medicolegal and Forensic Symposium, "*C.S.I.: Caribbean Solutions and Innovations for Regional Medicolegal and Forensic Issues.*" Bridgetown, Barbados. November 16-18, 2023.

11. Forensic epidemiology and causation in forensic medicine: methods for evidence-based practice in cause of death investigation. British Association in Forensic Medicine, Summer Meeting 2023, Harrogate, UK. June 23-24, 2023.

12. Domains of research integrity in forensic medicine. British Association in Forensic Medicine, Summer Meeting 2023, Harrogate, UK. June 23-24, 2023.

13. Research integrity in forensic medicine; do we have a problem? Faculty of Forensic and Legal Medicine, 16th Annual Conference 2023. York, UK. May 13, 2023

14. Forensic epidemiology and death investigation in Forensic Medicine: Methods for Evidence-Based Practice. Core course lecture, Diploma of Forensic Medical Sciences curriculum, Academy of Forensic Medical Sciences, London. November 12, 2022.

15. Forensic epidemiology and death investigation in Forensic Medicine: Methods for Evidence-Based Practice. "Dying to meet you," 40th Anniversary Conference of the Dutch Forensic Medical Society, September 15-16, 2022, Rotterdam, NL.

16. Forensic Epidemiology: Advances in Methods and Applications. Department of Epidemiology, Care and Primary Health Research Institute, Faculty of Health, Medicine, and Life Sciences, Maastricht University, Maastricht, NL, May 24, 2022.

17. Forensic Epidemiology and Causation in Forensic Medicine: Methods for Evidence-Based Practice. Faculty of Forensic and Legal Medicine, 15th Annual Conference 2022. Royal College of Pathologists, Aldgate, London UK. May 7, 2022

18. Introduction to Forensic Epidemiology. Core course lecture, Diploma of Forensic Medical Sciences curriculum, Academy of Forensic Medical Sciences, London. November 12, 2021.

19. Introduction to Forensic Epidemiology: An evidence-based approach to causal analysis in forensic medicine. Faculty of Forensic and Legal Medicine, Royal College of Physicians, London. October 13, 2021.

20. Forensic Epidemiology: The use of population-based data and methods in the evaluation of specific causation in a medicolegal setting. American College of Epidemiology, Plenary lecture. September 10, 2021.

21. The role of epidemiology in evidence-based investigation of injury and death. 1st International Forensic Science e-Conference. National Forensic Sciences University, India. July 10-11, 2021.

22. Medico-legal causation in auto litigation. International Orthopedic Foundation. January 30, 2021.

23. Medico-legal investigation of suicide. Lecture at Mental Illness Research Education Clinical, Centers of Excellence NW (MIRECC CoE), Veteran's Affairs Medical Center, Portland Oregon. December 16, 2020.

24. The role of epidemiology in evidence-based forensic medical investigation of death and injury. Faculty of Medicine, Universitas Indonesia. December 15, 2020.

25. Does Excited Delirium cause death, or does death cause Excited Delirium? A systematic review and statistical analysis of the world literature. Presented at *Deaths in Custody 3: Judicial Considerations.* Department of Pathology and Laboratory Medicine, of the Faculty of Medicine, in conjunction with the Office of the Chief Medical Examiner, Washington DC, September 27, 2020.

26. Medico-legal investigation of suicide. Grand Rounds in Psychiatry, Department of Psychiatry, Oregon Health & Science University School of Medicine. March 24, 2020.

27. Forensic investigation of unexplained death. University of Business, Technology, and Science (UBT), October 9, 2018: Pristina, Kosovo.

28. Causation analysis in medical negligence. Radboud Summer School. Radboud Medical Center, August 14, 2018: Nijmegen, Netherlands.

29. Injury causation analysis. Radboud Summer School. Radboud Medical Center, August 14, 2018: Nijmegen, Netherlands.

30. Criminal applications of Forensic Epidemiology. Radboud Summer School. Radboud Medical Center, August 14, 2018: Nijmegen, Netherlands.

31. Introduction to Forensic Epidemiology. Radboud Summer School. Radboud Medical Center, August 13, 2018: Nijmegen, Netherlands.

32. Ballistic analysis of an attempted murder using a porcine model. *Proceedings of 70th Annual Meeting of the American Academy of Forensic Sciences* 2018 Feb 19-23: Seattle, WA.

33. Evidence-based practice in Forensic Medicine; Principles of Forensic Epidemiology. Radboud Medical Center, October 9, 2017: Nijmegen, Netherlands.

34. Incidence and risk factors for neonatal falls US Hospitals, 2003-2012. *Health Science Research,* Doernbecher Childrens' Hospital, Oregon Health & Science University, March 13, 2017, Portland, Oregon.

35. Incidence and risk factors for neonatal falls US Hospitals, 2003-2012. *Research in Progress,* Department of Internal Medicine, Oregon Health & Science University School of Medicine, January 31, 2017, Portland, Oregon.

36. Evidence-based practice in Forensic Medicine. Invited presentation to the Dutch National Forensic Institute (NFI). December 6, 2016 Maastricht University, Maastricht, Netherlands.

37. Forensic Epidemiology: Principals & Practice Part 2: Investigation of specific causation. Gran Sesión de Epidemiología Forense. November 18, 2016 Universidad Libre, Cali, Colombia.

38. Forensic Epidemiology: Principals & Practice Part 1: Investigation of specific causation. Gran Sesión de Epidemiología Forense. November 18, 2016 Universidad Libre, Cali, Colombia.

39. Fatal crash investigation. World Reconstruction Exposition (WREX 2016). May 2-6, 2016. Orlando, Florida.

40. Trends in police use-of-force related hospitalizations; an analysis of Nationwide Inpatient Sample data for 1998-2012. *Research in Progress,* Department of Internal Medicine, Oregon Health & Science University School of Medicine, November 10, 2015, Portland, Oregon.

41. Concussion risk associated with head impact; an analysis of pooled data from helmeted sports. *12th Annual Conference of the North American Brain Injury Society*, April 29-May 1, 2015 San Antonio, Texas

42. The role of risk in assessing cause in forensic investigation of injury and death. *American Medical Response biennial EMS training*. April 17, 2015, Mt. Hood, Oregon.

43. Development of a pediatric fatal head trauma registry. *Research in Progress,* Department of Internal Medicine, Oregon Health & Science University School of Medicine, April 7, 2015, Portland, Oregon.

44. Fatal crash investigation: methods and case presentations. Washington County CART Team training lecture. Tualatin Police Department, Tualatin, Oregon. March 4, 2015.

45. An analysis of the causal relationship between maternal/ prenatal cocaine use and stillbirth: results of a national hospital database study. *67th Annual Meeting of the American Academy of Forensic Sciences* 2015 Feb 16-21: Orlando, FL

46. Biomechanical, Mechanical, and Epidemiologic Characteristics of Low Speed Rear Impact Collisions. *67th Annual Meeting of the American Academy of Forensic Sciences* 2015 Feb

16-21: Orlando, FL.

47. Sexual abuse in the Boy Scouts: a preliminary analysis of Boy Scout ineligible volunteer files from 1945 to 2004. *Research in Progress,* Department of Sociology, Portland State University. December 18, 2014.

48. Understanding chronic pain after whiplash trauma. *Lund University Hospital, Department of Rehabilitation Medicine.* December 11, 2014, Lund, Sweden.

49. Forensic Applications of Epidemiology in Criminal and Civil Settings. *Richard Doll Building, Nuffield College, Oxford University.* December 10, 2014, Oxford, UK.

50. The Efficacy of tPA in Preventing Long Term Poor Outcome After Ischemic Stroke: A Reanalysis of NINDS Data. *Research in Progress,* Department of Internal Medicine, Oregon Health & Science University School of Medicine, November 25, 2014, Portland, Oregon.

51. Forensic Epidemiology and Bioterrorism. Full day course for public health and law enforcement. A joint training for public health, law enforcement, and emergency services. Sponsored by Charles County Department of Public Health and funded through a grant from the Centers for Disease Control and Prevention, Public Health Preparedness Cooperative Agreement. College of Southern Maryland. June 10, 2014. Waldorf, Maryland.

52. Maternal cocaine exposure and still-birth risk. *Research in Progress,* Department of Internal Medicine, Oregon Health & Science University School of Medicine, May 20, 2014, Portland, Oregon.

53. Forensic Applications of Epidemiology in Civil and Criminal Litigation. *9th International Conference on Forensic Inference and Statistics* August 19-22, 2014

54. Investigation of a disputed mechanism of diffuse axonal injury following a low speed frontal crash. *65th Annual Meeting of the American Academy of Forensic Sciences,* Feb 21, 2014, Seattle, Washington.

55. Public defense of dissertation for Doctor of Medicine degree, "The role of forensic epidemiology in evidence based forensic medical practice." *Section of Forensic Medicine, Department of Community Medicine and Rehabilitation, Faculty of Medicine, Umeå University*. November 6, 2013, Umeå, Sweden.

56. Case studies in applied forensic epidemiology. Invited lecture, *University of Maastricht, Department of Complex Genetics and Epidemiology,* Maastricht, The Netherlands. October 31, 2013.

57. The relationship between Chiari malformation, trauma, and chronic pain. *Karolinska Institute,* September 27, 2012, Stockholm, Sweden.

58. Serious head and neck injury as a predictor of occupant position in fatal rollover crashes. *18th Nordic Conference on Forensic Medicine*, June 13-16, 2012 Aarhus Denmark.

59. Self-defense or attempted murder? A combined ballistic and traffic crash reconstruction of a Texas shooting. *18th Nordic Conference on Forensic Medicine*, June 13-16, 2012 Aarhus Denmark.

60. Applied forensic epidemiology: the evaluation of individual causation in wrongful death cases using relative risk. *18th Nordic Conference on Forensic Medicine*, June 13-16, 2012 Aarhus Denmark.

61. Forensic Epidemiologic Investigation of Traffic Crash-Related Homicide. *Årsmøde i Dansk Selskab for Retsmedicin og Dansk Selskab for Ulykkes- og Skadeforebyggelse* [The Danish Traffic Medicine Society of the Danish Society for Forensic Medicine] November 3-5, 2011] Grenå, Denmark.

62. Traffic Crash Injuries 1960 to the present; how far we've come. Keynote address, *Årsmøde i Dansk Selskab for Retsmedicin og Dansk Selskab for Ulykkes- og Skadeforebyggelse* [The

Danish Traffic Medicine Society of the Danish Society for Forensic Medicine] November 3-5, 2011] Grenå, Denmark.

63. Is there a place for forensic biomechanics in evaluation of Probability of Causation? *8th International Conference on Forensic Inference and Statistics (ICFIS),* July 19-21, 2011; University of Washington, Seattle, Washington.

64. Case studies in forensic epidemiology. *8th International Conference on Forensic Inference and Statistics (ICFIS)*, July 19-21, 2011; University of Washington, Seattle, Washington.

65. The Error Odds method of objectively assessing bioengineering based claims of causation; a Bayesian approach to test validity quantification. Invited lecture; joint session of Jurisprudence and Engineering Sciences. *62nd Annual Meeting of the American Academy of Forensic Sciences* Feb 25, 2010, Seattle, Washington.

66. The effect of restraint use on skull vault fractures in rollover crashes. Engineering Sciences section, *62nd Annual Meeting of the American Academy of Forensic Sciences* Feb 26, 2010 Seattle, Washington.

67. Head injuries in lower speed collinear collisions; an analysis of the National Automotive Sampling System database. Engineering Sciences section, *62nd Annual Meeting of the American Academy of Forensic Sciences* Feb 26, 2010 Seattle, Washington.

68. The Error Odds assessment of accuracy for tests in forensic medicine; a simple application of Bayes' Law. Invited presentation; *XXI Congress of the International Academy of Legal Medicine* May 2009, Lisbon, Portugal

69. Forensic Epidemiology and Traumatic Brain Injury. Invited presentation; *VII World Congress on Brain Injury, International Brain Injury Association* April 2008 Lisbon, Portugal.

70. Bayesian analysis of predictive characteristics in suicidal versus homicidal hanging deaths: A case study in forensic epidemiology. *59th Annual Meeting of the American Academy of Forensic Sciences* February 19-24, 2007, San Antonio, Texas.

71. Probability and pathologic findings in suicidal versus homicidal hanging deaths; a case study *16th Nordic Conference on Forensic Medicine* June 15, 2006, Turku, Finland.

72. Pattern Analysis as a means of driver determination in a vehicular homicide investigation *16th Nordic Conference on Forensic Medicine* June 16, 2006, Turku, Finland.

73. Probability and pathologic findings in suicidal versus homicidal hangings; a case study. Grand Rounds *Institute of Forensic Medicine, Aarhus University, Aarhus, Denmark*. October 27, 2005.

74. Road Traffic Crashes- mechanisms, injuries and analysis. Invited lecture (Keynote address) *Danish Society for Automotive Medicine* Aarhus, Denmark. October 27, 2005.

75. The Defense Medical Evaluation: Issues, Ethics and Pitfalls. *2nd Annual International Whiplash Trauma Congress* Breckenridge, Colorado. February 26, 2005.

76. Injury Pattern Analysis in Fatal Traffic Crash Investigation *American Academy of Forensic Sciences' 57th Annual Meeting* New Orleans, Louisiana. February 24, 2005.

77. Independent Medical Evaluations and secondary gain. Grand Rounds, *Department of Psychiatry, Oregon Health & Science University School of Medicine* November 2, 2004.

78. The epidemiology of crash-related trauma. Invited lecture. Grand Rounds *Peace Health Hospital* Longview, Washington. March 30, 2004.

79. Injury pattern analysis: the practical application to the investigation of crash related death. Grand Rounds Department of Pathology, *Oregon Health Sciences University* Portland, Oregon. January 21, 2004.

80. Literature critique, Whiplash Updates. Invited lecture. *British Columbia Chiropractic Association* Vancouver, British Columbia, Canada. October 23, 2003.

81. Catastrophic crash cases and probability. Invited lecture. *Paris American Legal Institute* Florence, Italy. September 22, 2003.

82. Injury pattern analysis as a means of driver identification in a vehicular homicide; a case study. *International Traffic Medicine Association Annual Meeting*. Budapest, Hungary. September 17, 2003.

83. Fatal head injury crashes in a rural Oregon county, 1990-1999. *International Traffic Medicine Association Annual Meeting*. Budapest, Hungary. September 16, 2003.

84. Crash reconstruction and forensic science. Invited lecture. *CRASH 2003* Spine Research Institute of San Diego. San Diego, California. August 22, 2003.

85. The uses and abuses of psychiatric IMEs: an ethical dilemma. *American Psychiatric Association Annual Meeting*. San Francisco, California. May 21, 2003.

86. Crash-related trauma. Invited lecture. THRI Neuroscience meeting. *Texas Back Institute* St. Mary's Hospital. Plano, Texas. February 28, 2003.

87. Whiplash injury and occult spinal fracture. *International Association for the Study of Pain* 10th World Congress on pain. San Diego, California. August 20, 2002.

88. Crash Reconstruction and forensic science. *CRASH 2002* Spine Research Institute of San Diego. San Diego, California. August 8, 2002.

89. Epidemiologic and medical aspects of whiplash injury. *Swedish Orthopedic Society* Stockholm, Sweden. May 17, 2002.

90. Epidemiologic considerations of whiplash injuries. Invited lecture. *European Chiropractic Union Annual Congress* Oslo, Norway. May 9, 2002.

91. The role of cervical manipulation in neck pain. Invited lecture. *Cervical Spine Research Society 29th Annual Meeting* Instructional Course, Monterey, CA, Nov 29-Dec 1, 2001

92. Whiplash injury and occult vertebral fracture: a case series of bone SPECT imaging of patients with persisting spine pain following a motor vehicle crash. *Cervical Spine Research Society 29th Annual Meeting* Monterey, CA, Nov 29-Dec 1, 2001

93. Interpreting the medical literature with a focus on bias and confounding/Minimal Damage Crash Reconstruction. Invited lecture. *CRASH 2001* Spine Research Institute of San Diego. San Diego, CA. August 2001.

94. Injury Pattern Analysis and Forensic Trauma Epidemiology in vehicular homicide investigation. *Washington State Patrol* Lacy, WA, June 20, 2001

95. Case studies in multidisciplinary spine care. *Chiropractic Association of Oregon* Portland OR, April 28, 2001

96. Injury Pattern Analysis and Forensic Trauma Epidemiology in vehicular homicide investigation. *Washington State Patrol* Vancouver, WA, February 13, 2001

97. The role of cervical manipulation in neck pain. Invited lecture. *Cervical Spine Research Society 28th Annual Meeting* Instructional Course. Charleston, South Carolina, December 1, 2000

98. Significant spinal injuries resulting from low-level accelerations: a case series of roller coaster injuries. *Cervical Spine Research Society 28th Annual Meeting* Charleston, South Carolina, December 1, 2000

99. Injury Pattern Analysis and Forensic Trauma Epidemiology in vehicular homicide investigation. *Medical Examiner Division, Oregon State Police*. Salem, OR. November 28, 2000

100. Minimal damage motor vehicle crash reconstruction. Invited lecture. Spine Research Institute of San Diego. *CRASH 2000* Spine Research Institute of San Diego. San Diego CA. August 11-13, 2000

101. Analysis of the whiplash literature with emphasis on research out of Quebec and Saskatchewan. *Saskatchewan Medical Group and Coalition Against No-Fault*. Saskatoon, Saskatchewan. September 2000.

102. Forensic applications of crash reconstruction. Invited lecture. *CRASH 2000* Spine Research Institute of San Diego. San Diego, CA. August 11, 2000.

103. Injury Pattern Analysis and Forensic Trauma Epidemiology; practical application in the forensic setting. Washington County CART Team training lecture, on behalf of *Medical Examiner Division, Oregon State Police*. Lake Oswego, Oregon. July 13, 2000.

104. The epidemiology of acute and chronic whiplash injury in the U.S. Invited lecture. *HWS-Distorsion (Schleudetrauma) & Leichte Traumatische, Hirnverletzung. Invaliditat und Berufliche Reintegration*. Basel, Switzerland. June 29-30, 2000.

105. Whiplash injury risk factors. Invited lecture. *Whiplash 2000*. Bath, England. May 18, 2000.

106. How many whiplash injuries could there be? Invited lecture. *Whiplash 2000* Bath, England. May 17, 2000.

107. Whiplash injury and occupant kinematics; the results of human volunteer crash testing. Invited lecture. *Society for Road Traffic Injuries (LFT)*. Oslo, Norway. April 3, 2000.

108. Epidemiology of Whiplash Injuries. Invited lecture. *Swedish Orthopedic Society* Stockholm, Sweden. March 31, 2000.

109. Methodologic pitfalls in epidemiological and clinical research, with examples from whiplash research. Invited lecture. *Arvetsinstitut (Institute for Musculoskeletal Medicine Research) Umeå University,* Umeå, Sweden. March 30, 2000.

110. The prevalence of whiplash-associated chronic cervical pain among a random sample of patients with chronic spine pain. *Cervical Spine Research Society 27th Annual Meeting* Seattle, WA December 13-15, 1999.

111. High speed videography of occupant movement during human volunteer crash testing; searching for an injury threshold. *North American Whiplash Trauma Congress* November 12, 1999.

112. Scientific Chair Address. *North American Whiplash Trauma Congress* November 12, 1999.

113. The science of whiplash injuries: common mistakes in the reconstruction of low speed crashes. Invited lecture. *Forensic Accident Reconstructionists of Oregon* Eugene, Oregon, April 1, 1999.

114. Late whiplash risk factor analysis of a random sample of patients with chronic spine pain. *Whiplash Associated Disorders World Congress* Vancouver, B.C. February 9, 1999.

115. The epidemiology of whiplash injuries; critiquing the literature. Grand rounds, *Department of Public Health and Preventive Medicine, Oregon Health Sciences University* Portland, Oregon. December 17, 1998.

116. The scientific appraisal of motor vehicle crash-related injuries. Invited lecture. *Managing the Cost of Auto Injuries*. Orlando, FL. December 8, 1998.

117. Risk factors for chronic pain following acute whiplash injury. Invited lecture. *Managing the Cost of Auto Injuries* Orlando, FL. December 7, 1998.

118. The epidemiology of whiplash injuries. Current Issues in Public Health, *Department of Public Health and Preventive Medicine, Oregon Health Sciences University* Portland, Oregon. October 7, 1998

119. The epidemiology of whiplash - is there a reliable threshold for whiplash injury? Invited lecture. *HWS-Distortion (Schleudetrauma) & Leichte Traumatische Medico-Legal Congress*. Basel, Switzerland, June 26, 1998.

120. The Epidemiology of Late Whiplash. Invited lecture. *HWS-Distortion (Schleudetrauma) & Leichte Traumatische Medico-Legal Congress.* Basel, Switzerland, June 25, 1998.

121. Methodologic error in the whiplash literature. Invited lecture. *Whiplash '96* Brussels, Belgium, November 15-16, 1996

122. Conservative therapy for spinal disorders *St. Francis Hospital*, San Francisco, CA. September 1994

123. The history of chiropractic. Invited lecture. *White Plains Hospital*, White Plains, NY. December 1993