

# Mason D. Harrell, M.D., M.P.H.

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## MEDICAL DIRECTOR

Harvard-trained, award-winning, double board-certified physician in Occupational Medicine, and Public Health and General Preventive Medicine. Medical expert work with the Massachusetts Institute of Technology (MIT), the World Health Organization (WHO), American College of Occupational and Environmental Medicine, and MDGuidelines®. Published original research on “Return to Work” in the Journal of Occupational and Environmental Medicine. Created and teaches the U.S. Navy’s Occupational and Environmental Medicine Fundamentals Course. Currently, active duty Navy Lieutenant Commander, Medical Department Head, and Flight Surgeon supervising 75 medical professionals. Volunteer “House Doctor” for the San Diego Symphony and published in the Journal of Infectious Disease with the WHO on Ebola infections in health care workers.

Expert in occupational injuries and illness, including chemical exposures and sensitivities, heat injuries, environmental intolerances, asbestos, dust, mold, air quality, heavy metals, radiation, toxicology, causation, fitness for duty, return to work, malingering, work stress, disability, chronic pain, primary care, and urgent care.

### Endorsements:

*“I witnessed Dr. Harrell’s enormous determination, discipline, organization and time management to fulfill his tasks in very short deadlines and up to the highest standards. He also demonstrated good interpersonal skills in a challenging multicultural environment...” Dr. Ivan Ivanov, Occupational Health, World Health Organization, 2014*

*“[Dr. Harrell] immediately impressed me as a consummate medical and military professional...He consistently demonstrated the ability to synthesize and integrate ideas from multiple disciplines and to present those thoughts in ways that built common ground among participants representing diverse and sometimes contentious organizations. A skilled discussion leader, he proved invaluable in creatively developing the means of bringing differing positions into alignment.”  
Brigadier General Keith Holcomb (Ret), Massachusetts Institute of Technology (MIT), 2015*

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## EDUCATION

Master of Public Health, 2014 – Harvard  
Doctor of Medicine, 2008 – United States Military Medical School (Uniformed Services University)  
Bachelor of Arts in Spanish, 2003 – Brigham Young University

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## MEDICAL TRAINING

Occupational and Environmental Medicine Residency – Harvard  
Research Fellow, Department of Environmental Health – Harvard  
Flight Surgeon, U.S. NAVY – Naval Aerospace Medical Institute  
Transitional Year Internship – U.S. Naval Medical Center San Diego

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## CERTIFICATIONS

Board Certified in Occupational Medicine, American Board of Preventive Medicine  
Board Certified in Public Health and General Preventive Medicine, American Board of Preventive Medicine

Qualified Medical Examiner, California Division of Workers' Compensation

Advanced Trauma Life Support

Advanced Cardiac Life Support (Instructor)

Basic Life Support (Instructor)

## PROFESSIONAL EXPERIENCE

**Naval Operational Support Command North Island; Coronado, CA** **June 2017 – present**

### **MEDICAL DIVISION OFFICER, FLIGHT SURGEON**

Primary full-time position, providing acute care, primary care, wellness screenings, disability evaluations, return to work physicals, pre-deployment screenings, flight physicals, and line of duty investigations for active duty military service members. Supervises 8 physicians, 2 mid-level providers, 15 nurses, and 50 medical technicians (corpsmen). Risk-strategy advisor to Commanding Officer and 54 senior-level supervisors.

#### **Key Achievements:**

- ◆ Designed and directs the injury management program for military reservists enabling a cloud-sharing hands-on approach for leaders to adjudicate service members' disability dispositions.
- ◆ Created and teaches the U.S. Navy Occupational and Environmental Medicine Fundamentals Course.
- ◆ Functional Medicine in military primary care clinics to treat service members with chronic illness.

**VR-57 Squadron; Coronado, CA** **June 2017 – present**

### **MEDICAL DEPARTMENT HEAD, FLIGHT SURGEON**

Supervises 3 physicians and 5 medical technicians (corpsmen). Completes work related physicals for aviators, maintainers and various other personnel. Responsible for evaluating and treating injured personnel and managing injury and disability programs.

**American Analytical Medical Services, Inc.; San Diego, CA** **May 2016 – present**

### **PRESIDENT, CHIEF EXECUTIVE OFFICER**

Co-founded a nationwide network of medical experts providing healthcare and general medicine services to businesses, third party administrators, insurance companies, lawyers, hospitals, clinics, and self-insured entities. Services include, disability management, cost containment, utilization management, risk management, remote healthcare, specialty examinations, second opinions, and expert witness services.

**Sequoia, Inc.; Orange County, CA** **Sep 2016 – present**

### **CHIEF MEDICAL OFFICER**

Co-founded record review software that saves doctors 20-40% of their time and increases the quality of reports while decreasing the time to perform the record review and report creation. The Sequoia cloud portal software ties together record handling and report creation. It allows the client to upload case files and case information. Sequoia identifies duplicate, similar, and irrelevant records. Individual record summaries are easily organized and tied to the individual records. Final reports are customized, formatted, generated, and delivered with a click of a button.

**World Health Organization, Headquarters (WHO); Geneva, Switzerland** **2014 – 2018**

**INTERN, Global Occupational Health Program** (Nov 2014 – Dec 2014)

**RESEARCHER, Ebola Response Team** (Jan 2015 – Sep 2018)

Ebola Response Team of the WHO Global Occupational Health Program and Infection Prevention and Control. Researched exposure circumstances of occupational filovirus infections among health workers and other workers - how workers are infected during the 2014-2016 and historical Ebola and Marburg outbreaks.

#### **Key Achievements:**

- ◆ Published original research, "Infection Rates and Risk Factors for Infection Among Health Workers During Ebola and Marburg Virus Outbreaks: A Systematic Review" *The Journal of Infectious Disease*, 07 September 2018.

- ♦ Research findings presented to the WHO Headquarters Ebola Response Team and “[were utilized] in developing strategies and practical actions for prevention and control...” *Dr. Ivan Ivanov, Occupational Health, World Health Organization.*
- ♦ Poster presentation of findings won second place at the American College of Physicians’ Conference, May, 2016 and presented at the American Occupational Health Conference, May 2015.

**Marine Air Control Group-28, Marine Corps; Cherry Point, NC**

July 2015 – June 2017

**MEDICAL DIRECTOR / MANAGING PHYSICIAN (Group Surgeon)**

Directed 18 medical professionals: 2 Physicians, 2 Nurse Practitioners (military counterpart), 3 Nurses, and 12 medical technicians (corpsmen). Directed and provided for 2,000 Marines the medical care and the medical readiness maintenance for immediate worldwide deployment readiness. Administered direct patient care in Occupational medicine and urgent care. Conducted health screenings to improve health and productivity. Reported to and counseled the Commanding Officer concerning 2,000 Marines in 100+ units on continuous worldwide deployments to the Middle East, Africa, Europe, and Asia. Medical Expert on Staff Counsel to 6 subordinate commands each with separate commanding officers.

**Key Achievements:**

- ♦ Increased Command medical readiness from 80% to 87.5% by developing and implementing policies and procedures, identifying and executing strategically savvy health screening tactics, and improving access.
- ♦ Medical Consultant and Board Member of the Navy’s premier disability evaluation pilot program with recent expansion and preparing for future Navy-wide dissemination.
- ♦ Directed the environmental aspects of facilities oversight and collaborated with Headquarters Safety department to ensure compliance with safety standards, cluster investigations, and evaluation of managed care for occupational injuries, clinical exams, substance abuse program, and MRO services.
- ♦ Medical Executive Committee, Board of Directors, and 5 Human Factors Counsels.

**2d Marine Air Wing, Naval Clinic; Cherry Point, NC**

July 2015 – June 2017

**SENIOR MEDICAL DIRECTOR / MANAGING PHYSICIAN (Acting and Interim)**

Directed 72 medical professionals: 14 Physicians, 4 Nurse Practitioners (military equivalent), 6 Nurses, and 50 corpsmen. Supervises and provides medical guidance to the aforementioned staff rendering medical care to 7,000 Marines in 20 commands. Commended by supervisor as the “superglue” of the clinic.

**Key Achievements:**

- ♦ Transformed work-climate, image, quality and customer service through securing nurse buy-in and enhancing nurses’ satisfaction, unifying staff, and creating a team-oriented work environment.
- ♦ Established effective, high quality and efficient clinic practices by revamping outdated processes, instituting standard procedures, and organizing medical record screening programs. Maintained high-level access to care despite severe shortage of providers (-50%) by enforcing maximum utilization of medical staff by means of redefining and implementing nursing protocols and employing medical technicians to their highest work capacity by providing certified physical assessment course (“sick-call screener’s course”).

**Harvard School of Public Health; Boston, MA**

2013 – 2015

**RESIDENT, Harvard Occupational & Environmental Medicine****Key Achievements:**

- ♦ Resident Research Award, American College of Occupational & Environmental Medicine (ACOEM).
- ♦ Created the pre-placement examination worksheet for the New England Biosafety Laboratory Level – 4.
- ♦ Guest Lecturer at the Northeast Association of Occupational Health Nurses quarterly meeting.

**Liberty Mutual Research Institute for Safety; Hopkinton, MA**

2014 – 2015

**RESEARCH FELLOW, Harvard School of Public Health**

Researched workers’ compensation claims for low back injury. Examined the associations between lag times following occupational low back injury and the length of work disability.

**Key Achievement:**

- ♦ Published original research findings in the Journal of Occupational and Environmental Medicine. Volume 58, Number 1, January 2016. Pages 53 – 60. (Jan, 2016).

**Massachusetts Institute of Technology, Lincoln Laboratories;** Lexington, MA

2014 – 2015

**MEDICAL EXPERT CONSULTANT**

Research consultant on developing technologies and concepts of operation to support complex Humanitarian Assistance and Disaster Relief operations in coordination with the Department of Defense.

**Massachusetts Department of Public Health (MDPH)**

2014

**INTERN, Office of Preparedness and Emergency Management**

Developed policies and procedures for the health and safety of MDPH's Emergency Responders. Presented and lead discussions about keeping the Health Care Workers safe from Ebola Virus Disease. Contributed to radiological disaster full scale exercise, coordination meetings with federal and local government concerning the strategic national stock piles, (3) Ebola conference calls with the CDC and state wide DPHs, Ebola conference calls with state wide hospitals and clinics, and MDPH meetings regarding Ebola Virus Disease.

**Special Purpose Marine Corps Air Ground Task Force;** Kampala, Uganda, EAST AFRICA

2012

**MEDICAL DIRECTOR OF OPERATIONS**

Led medical team in support of 40 Marines deployed to Uganda.

**Key Achievements:**

- ◆ Site-visited and analyzed major hospitals of Kampala, Uganda and created medical treatment and evacuation plans for deployed U.S. Marines to Uganda.

**Joint Forces Air Station, Operation UNIFIED PROTECTOR;** Sigonella, Sicily, ITALY

2011

Mar 2011 – Dec 2011

**NATO MEDICAL LIAISON**

Directed U.S. liaison efforts with 7 NATO senior physicians; lead medical team in Coalition Forces Class "A" aviation mishap; lead bimonthly mishap planning and training sessions.

**U.S. Naval Hospital;** Sigonella, Sicily, ITALY

2010 - 2013

**DEPARTMENT HEAD, Aerospace Medicine**

Supervised 2 Nurse Practitioners and 16 medical technicians. Code drill coordinator, Member of human factors council: 3 commands. Directed medical care during a 300% increase in workload to support thousands of deployed coalition forces. ACLS and BLS instructor.

**Key Achievement:**

- ◆ Lead medical investigator in a Class "A" mishap.

**U.S. Naval Air Station;** Sigonella, Sicily, ITALY

2010 – 2013

**MEDICAL LIAISON, Italian Stormo 41 and U.S. Forces**

Bridged the long standing disconnect between Italian and U.S. medical forces operating on the same installation but without any communication or coordination for over a decade by developing relations and organizing joint-training exercises.

*Additional Military Leadership Positions:*

**Squad Leader** – Operation Bushmaster: field training for triage, management, security and evacuation of casualties.

**Platoon Leader** – Operation Kerkesner: field training for war-fighting, peace-keeping and humanitarian-assistance operations.

**Board of Governors** – Society of the United States Naval Flight Surgeons, Sole Junior Member, representing colleagues.

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**AWARDS**

Resident Research Award, American College of Occupational & Environmental Medicine (ACOEM), 2015

Second Place Poster, American College of Physician's conference, 2015

NATO Metal Non-Article 5 and Meritorious Unit Commendation Medals, 2013

Navy and Marine Corps Commendation Medal, 2013

Outstanding Customer Service Award, 2011

General Enrique Cervantes Award for Academic Excellence, USUHS Medical School, 2007

Academic Outstanding and Distinguished Student Award, Pharmacology, USUHS Medical School, 2006

Naval Medical Infectious Disease Scholarship, 2006  
Eagle Scout, Boy Scouts of America, 1994

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## COURSES

Radiation Health Indoctrination Course, U.S. Navy Undersea Medical Institute  
Humanitarian and Tropical Medicine Course; with mission to Ghana, Africa  
Combat Casualty Care Course  
U.S. Navy Basic Medical Department Officer Course

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## PUBLICATIONS

Saranya A Selvaraj, Karen E Lee, **Mason Harrell**, Ivan Ivanov, Benedetta Allegranzi; Infection Rates and Risk Factors for Infection Among Health Workers During Ebola and Marburg Virus Outbreaks: A Systematic Review, *The Journal of Infectious Diseases*, jiy435, <https://doi.org/10.1093/infdis/jiy435>

Bensen S, **Harrell M**, Pransky G. Lag Times in Reporting Injuries, Receiving Medical Care, and Missing Work: Associations With the Length of Work Disability in Occupational Back Injuries. *Journal of Occupational and Environmental Medicine*. Volume 58, Number 1, January 2016. Pages 53 – 60. Jan, 2016.

Tchernev G, Tronnier M, Ananiev J, Taneva T, Patterson JW, Gulubova M, Trafeli JP, Gegova A, Guarneri C, **Harrell M**. Atypical fibroxanthoma – a diagnosis of exclusion! *Vienna Medical Weekly*. (Wiener Medizinische Wochenschrift). Aug, 2013; 163(15-16):380-6.

**Harrell M**. A Global Force for Good. *Contact, Journal of Society of United States Flight Surgeons*. Nov, 2012.

**Harrell M**. “How are you sleeping?” *Signature Newspaper*. Naval Air Station Sigonella. Feb, 2011.

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## SCIENTIFIC POSTER PRESENTATIONS

**American College of Physicians** (May, 2016). “Infection rates and risk factors for infection in healthcare workers during Ebola and Marburg virus outbreaks: a systematic review.”

**American Occupational Health Conference**, (May, 2015). American College of Occupational and Environmental Medicine. “Ebola Outbreak: How Health Care Workers are Infected.”

**American College of Physicians** (April, 2006). “Hot Stuff! – A Wave of Heat Injuries in Military Recruits”. Poster presentation at the ACP Navy Chapter Scientific Conference.

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## HOSPITAL AFFILIATIONS

U.S. Naval Medical Center San Diego, CA (2017 – present)  
U.S. Naval Clinic Cherry Point, NC (2015 – 2017)  
Harvard Affiliated OEMR Hospitals (2013 – 2015)  
U.S. Naval Hospital Sigonella, Italy (2010 – 2013)  
U.S. Naval Medical Center San Diego, CA (2008-2009)

## MEDICAL LICENSES

State of Nebraska #25290, 2009 – present  
State of California #149613, 2017 – present

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## PROFESSIONAL AFFILIATIONS / VOLUNTEER POSITIONS

American College of Occupational and Environmental Medicine, 2013 – present  
**Practice Guidelines Medical Advisory Board Member (MDGuidelines@)**  
**House of Delegates Representative of the Military/Federal Section**

*Mental Health Practice Guidelines Expert Consultant (pending publication)*  
*Occ Health Fundamentals Guide Chapter Author on Mental Health, 2018 (pending publication)*  
*ACOEM Task Force on Firefighters and Cancers, 2018 (pending publication)*  
*Fellow (applied/pending review)*

Western Occupational and Environmental Medicine Association

**Membership Committee Member**, 2017 – present

**Education Committee Member**, 2017 – present

San Diego Symphony

**Copley Symphony Hall House Doctor**, 2017 – present

Quantum Innovation Corporation

**Board of Advisors**, 2018 - present

Society of U.S. Naval Flight Surgeons, 2010 – Lifetime Member

**Board of Governors** 2010-2013

International Association of Military Flight Surgeon Pilots, 2008 - Lifetime member

**Membership Secretary** 2008 – 2012

Massachusetts Medical Society

**Member** 2013 - 2015

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## LANGUAGE PROFICIENCIES

ENGLISH: Native Language

SPANISH: EXPERT LEVEL

***Key Achievements:***

- ◆ Simultaneous Court and Hospital Interpreter; Spanish Teacher, 2000 - 2003
- ◆ Studied at University of Alicante, Spain
- ◆ Interned at Mexico Federal Hospital, Oct 2007 – Nov 2007

ITALIAN: EXPERT LEVEL

***Key Achievements:***

- ◆ Italian Medical Interpreter, 2011 - 2013

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## LECTURES AND PRESENTATIONS

“Functional Medicine: Renewing the Patient-Physician Relationship.”

Global Steering Group & Business Leadership Meeting. The Institute of Health and Productivity Management. September 7, 2018.

“The Occupational Biopsychosicaleconomic Model: Stress Management, Violence, Occupational PTSD, Benefits of Work, and Delayed Recovery.”

American Industrial Hygiene Association, San Diego Chapter. June 27, 2018.

“Common Occupational Musculoskeletal Injuries with Small Group Breakout Case Role Play with Discussions”

U.S. Navy Occupational and Environmental Fundamentals Course. June 5, 2018.

“Occupational Low Back Pain with Small Group Breakout Case Role Play with Discussions”

U.S. Navy Occupational and Environmental Fundamentals Course. June 5, 2018.

“Ergonomics”

U.S. Navy Occupational and Environmental Fundamentals Course. June 5, 2018.

“Psychosocial Factors in the Workplace with Small Group Breakout Case Role Play with Discussions”

U.S. Navy Occupational and Environmental Fundamentals Course. June 6, 2018.

“The Occupational Biopsychosocial-economic Model: Stress Management, Violence, Occupational PTSD, Benefits of Work, and Delayed Recovery.”

26<sup>th</sup> Annual Joint Safety and Environmental Professional Development Symposium. April 24, 2018.

“Common Occupational Musculoskeletal Injuries with Small Group Breakout Case Role Play with Discussions”

U.S. Navy Occupational and Environmental Fundamentals Course. September 15, 2017.

“Occupational Low Back Pain with Small Group Breakout Case Role Play with Discussions”

U.S. Navy Occupational and Environmental Fundamentals Course. September 15, 2017.

“Psychosocial Factors in the Workplace with Small Group Breakout Case Role Play with Discussions”

U.S. Navy Occupational and Environmental Fundamentals Course. September 13, 2017.

“Career in Occupational Medicine Panel Discussion.”

U.S. Navy Occupational and Environmental Fundamentals Course. September 13, 2017.

“Occupational Health Clearance Exams for Dummies.”

U.S. Naval Clinic Cherry Point. Marine Corps Air Station Cherry Point. March 10, 2017.

“Tuberculosis: Prevention, Diagnosis, Prognosis, and Treatment Plans.”

Marine Corps Cherry Point Air Station. September 9, 2015.

“How Lag Times in Reporting the Injury, Receiving Medical Care, and Missing Work Relate to Length of Work Disability in Occupational Low Back Injuries”.

Harvard School of Public Health. Seminar in Occupational and Environmental Health Research. June 12, 2015

“Public Water Supply Fluoridation: Evidence for Benefits and Harms.”

Harvard School of Public Health. Epidemiology of Environmental & Occupational Health Regulations. May 8, 2015.

“Lag times in reporting injuries, receiving medical care, and missing work: associations with length of work disability in occupational back injuries.”

American Occupational Health Conference. May 4, 2015.

“Ebola Virus Outbreak: How Workers Are Infected.”

Harvard School of Public Health. Seminar in Occupational and Environmental Health Research. February 20, 2015.

“How Lag Times in Reporting the Injury, Receiving Medical Care, and Missing Work Relate to Length of Work Disability in Occupational Low Back Injuries.”

Harvard School of Public Health. Seminar in Occupational and Environmental Health Research. February 20, 2015.

“Ebola Outbreak: Keeping the Health Care Workers Safe.”

Northeast Association of Occupational Health Nurses Quarterly Conference. February 4, 2015.

“Ebola Virus Outbreak: Occupational Health Impact.”

World Health Organization, Geneva, Switzerland. Ebola Outbreak Response Ready Room. December 19, 2014.

“Ebola Virus Outbreak: Occupational Health Impact.”

World Health Organization, Geneva, Switzerland. Town Hall Meeting. December 16, 2014.

“How Health Care Workers are infected by Ebola.”

Massachusetts General Hospital Occupational Health Department. November 27, 2014.

“Hamstring Hematoma, Sound the Alarm?”

Harvard Occupational and Environmental Medicine Residency, Grand Rounds. November 4, 2014.

“Insights, Methods, and Dynamics of Injuries to the Musculoskeletal System.”

Harvard Occupational and Environmental Medicine Grand Rounds. November 4, 2014.

“Septic Elbow.”

Harvard Occupational and Environmental Medicine Residency, Grand Rounds. October 31, 2014.

“How Health Care Workers are infected by Ebola.”

Massachusetts Department of Public Health. Preparedness & Emergency Management. October 22, 2014

“Emergency Workers Health and Safety at MDPH.”

Emergency Responder Health Monitoring and Surveillance (ERHMS). Massachusetts Department of Public Health October 22, 2014

“Ebola Outbreak: Keeping Health Care Workers and Researchers Safe.”

Harvard Occupational and Environmental Medicine Residency, Grand Rounds. October 17, 2014.