



R. ALLEN HOFFMAN, M.D., M.P.H.
COMMANDER, MEDICAL CORPS, UNITED STATES NAVY Ret.
SENIOR CONSULTANT

rahoffman@engsys.com

Dr. Allen Hoffman is a physician and U.S. Navy veteran with over 22 years of experience working in international occupational environments, including aviation and maritime settings. Dual board-certified in Aerospace and Occupational Medicine, Dr. Hoffman served as Aerospace Medicine Specialist on the U.S. Navy's Physiological Episodes Action Team, investigating hundreds of man-machine interface issues and evaluating aircrew physical deficits and injuries from both an individual and public health perspective. He also served as the Branch Head for Aerospace Medicine Programs at the U.S. Navy Bureau of Medicine and Surgery, where he authored policies for aircrew vaccinations and return to flight status during the COVID-19 pandemic, briefing the Naval Aviation admiralty to secure authorization to implement.

During his career, Dr. Hoffman served as Senior Medical Officer on an aircraft carrier, leading the medical team responsible for radiation health surveillance, emergency medical evacuation, aviation and occupational accident medical investigations, shipboard medical equipment maintenance, and industrial hygiene programs.

In addition to his work at ESi, Dr. Hoffman is an active member of the Aerospace Medical Association Council and Scientific Program Committee. He routinely volunteers as a physician at the Wright-Patterson Air Force Base flight and occupational medicine clinics and teaches spatial disorientation at the Navy's Aerospace Medicine Residency.

Areas of Specialization

Aviation
Medical Investigations
Human Factors
Safety
Industrial Hygiene
Risk Analysis
Commercial Vehicles
Biomechanics

August 2024

Education

United States Army School of Aviation Medicine, Pensacola, Florida
Occupational Medicine Resident, July 2015 – June 2016

Naval Aerospace Medical Institute, Pensacola, Florida
Aerospace Medicine Resident, July 2013 – June 2015

University of West Florida, School of Public Health, Pensacola, Florida
Master of Public Health (Honors), May 2015

USS Kitty Hawk (CV 63), Yokosuka, Japan
Designated, Surface Warfare Medical Department Officer, December 2007

Naval Aerospace Medicine Institute, Pensacola, Florida
Flight Surgeon, Aeromedical Officer Course, July 2003 – February 2004

National Naval Medical Center, Bethesda, Maryland
Internship in General Surgery, July 2002 – June 2003

Loma Linda University, School of Medicine, Loma Linda, California
Medical Doctor, May 2002

Andrews University
Bachelor of Science: Zoology – Biomedical (Honors), May 1997

Medical Licensure and Board Certification

State of Virginia, Unrestricted, 0101235655, expires February 2026

Occupational Medicine, Board Certified – American Board of Preventive Medicine since 2018

Aerospace Medicine, Board Certified – American Board of Preventive Medicine since 2016

Community Service

Physician, Health Committee, Centerville Seventh-day Adventist Church, 2023 – Present

Elder, Centerville Seventh-day Adventist Church, 2023 – Present

Member, Building Committee, Vienna Seventh-day Adventist Church, 2019 – 2021

Board Member, Enter Act, Virginia Stage Company, 2012 – 2013

Longitudinal Generalist Mentorship Program, Eastern Virginia School of Medicine, 2011 – 2013

Command Managed Equal Opportunity Committee, Carrier Air Wing FIVE, 2005 – 2007

Organizations and Clubs

Aerospace Medical Association (AsMA)
AsMA Council, Member-at-Large, 2024 – Present
AsMA Scientific Program Committee, 2023 – Present
AsMA Nominating Committee, 2022 – 2023

American College of Occupational and Environmental Medicine

American Society of Aerospace Medicine Specialists

Marines' Memorial Club

Mount Vernon Ladies' Association – Regent's Circle
Phi Kappa Phi – University of West Florida
Society of U.S. Naval Flight Surgeons – President Emeritus (President 2022-2023)

Awards

Admiral John C. Adams Award, Aerospace Medical Association, 2024
Sonny Carter Memorial Award, Society of U.S. Naval Flight Surgeons, 2021
COMNAVAIRLANT Flight Surgeon of the Year, 2009
National Naval Medical Center, General Surgery Intern of the Year, 2003
Meritorious Service Medal (2 Awards)
Navy and Marine Corps Commendation Medal (4 Awards)
Army Commendation Medal
Navy and Marine Corps Achievement Medal
Humanitarian Service Medal

Professional Activities

Engineering Systems Inc., Norcross, Georgia
Senior Consultant, Biomechanics Department, August 2024 – Present

American Red Cross, Dayton, Ohio
Physician, 88th Medical Group, Wright-Patterson Air Force Base, July 2024 – Present

United States Air Force School of Aerospace Medicine, Dayton, Ohio
Chief, Naval Liaison Service at Aeromedical Consultation Service, April 2022 – June 2024

Naval Medical Research Unit, Dayton, Ohio
Chief, Aerospace Medicine Research, April 2022 – June 2024

United States Navy Bureau of Medicine and Surgery, Falls Church, Virginia
Branch Head, Aerospace Medicine, August 2018 – March 2022

Vice Chief of Naval Operations, Arlington, Virginia
Aerospace Medicine Specialist, Physiological Episodes Action Team, August 2018 – September 2021

USS John C. Stennis (CVN 74), Bremerton, Washington
Senior Medical Officer, July 2016 – August 2018

United States Army School of Aviation Medicine, Pensacola, Florida
Chief Resident, Occupational Medicine Residency Program, July 2015 – June 2016

Naval Aerospace Medicine Institute, Pensacola, Florida
Chief Resident, Aerospace Medicine Resident, July 2014 – June 2015

Fleet Logistics Support Squadron Four Zero, Norfolk, Virginia
Senior Regional Flight Surgeon, May 2008 – June 2013

Carrier Air Wing Five, Atsugi, Japan
Flight Surgeon, March 2004 – April 2008

Publications and National Presentations

Hoffman, R., Navy I Grew Up In: Renewing Operational Readiness Competency, Aerospace Medical Association 94th Annual Scientific Meeting, Chicago, IL, May 2024

Hoffman, R., I Got Bent; Bless Your Heart: A Case Report, Aerospace Medical Association 94th Annual Scientific Meeting, Chicago, IL, May 2024

Haberkamp, L., Hoffman, R., Reddix, M., Warner, S., Real-time Detection of Suboptimal Scan Patterns Using Deep Learning, Aerospace Medical Association 94th Annual Scientific Meeting, Chicago, IL, May 2024

Moon, R., Madsen, G., Hoffman, R., Clark, J., Norris, S., Bubble Disease as a Possible Cause of Physiological Events During Acute Attitude Exposure, Aerospace Medicine and Human Performance, 2024 (manuscript submitted)

Haberkamp, L., Hoffman, R., Weisenbach, C., Reddix, M., Quantifying Aviator Visual Scan Patterns and Information Processing Proficiency in a Simulated Fixed Wing Aircraft, Aerospace Medical Association 93rd Annual Scientific Meeting, New Orleans, LA, May 2023

Smith, A., Hoffman, R., Principles for the Evaluation, Grading, and Classification of Physiological Episodes, Aerospace Medical Association 93rd Annual Scientific Meeting, New Orleans, LA, May 2023

DeShields, S., Newton, J., Brooks, K., Hoffman, R., Developing A Case Definition for Physiologic Events, Military Health System Research Symposium, Kissimmee, FL, August 2022 (conference poster)

Newton, J., Hoffman, R., Brooks, K., DeShields, S., Shibley, C., A Population Health Approach to Assessing Health-Related Risk Factors of Physiologic Events, Military Health System Research Symposium, Kissimmee, FL, August 2020 (conference canceled)

Hoffman, R., LaVan T., Rice, M., Cost Basis Analysis of Naval Aviation Syphilis Screening, Aerospace Medical Association 87th Annual Scientific Meeting, Atlantic City, NJ, May 2016 (conference poster)

Hoffman, R., Valve Sparing Aortic Root Replacement In An F/A-18 Naval Aviator, Aerospace Medical Association 85th Annual Scientific Meeting, San Diego, CA, May 2014

Military Designations and Qualifications

Navy – Aerospace Medicine Specialist
Navy – Commander Amphibious Task Force Surgeon
Navy – Executive Medicine
Navy – Flight Surgeon
Navy – Public Health Emergency Officer
Navy – Surface Warfare Medical Department Officer

Medical and Military Training Courses

Armed Forces Medical Intelligence Center, Fort Detrick, Maryland
Toxic Chemical Training Course, May 2014

Defense Medical Readiness Training Institute, Falls Church, Virginia
Public Health Emergency Management Training Program (PHEO), January 2021

Federal Aviation Administration, Washington DC
Federal Aviation Administration Course, March 2016
FAA Aviation Medical Examiner Course, February 2024
FAA Human Factors Course, November 2014

Naval Aerospace Medical Institute, Pensacola, Florida
Department of Transportation Medical Examiners Course, April 2016
Army Space Cadre Basic Course, August 2015
Radiation Health Indoctrination Course, October 2013
Medical Effects of Ionizing Radiation Course, October 2013

Naval Justice School, Newport, Rhode Island
Senior Leader Legal Course, December 2019

Naval Safety Command, Norfolk, Virginia
Aviation Safety Officer Course, March 2014

Navy Leadership and Ethics Center, Newport, Rhode Island
Senior Leadership Course, August 2020

Navy Medicine Professional Development Center, Bethesda, Maryland
Advanced Medical Department Officer's Course, August 2015

Navy Surface Warfare Medical Institute, San Diego, California
Commander, Amphibious Task Force Surgeon Course (CATF), April 2016

United States Air Force School of Aerospace Medicine, Wright Patterson AFB, Ohio
Global Medicine Course, March 2015
Advanced Clinical Concepts in Aeromedical Evacuation Course, September 2014

United States Army Aberdeen Proving Grounds, Aberdeen, Maryland
Medical Management of Chemical & Biological Casualties Course, May 2014

United States Army Academy of the Health Sciences, Fort Sam Houston, Texas
Fundamentals of Occupational Medicine Course, November 2015
Preventive Medicine Leadership Course, November 2015
Combat Casualty Care Course, February 2003

Military Publications and Instructions

Manual of the Medical Department, U. S. Navy, Chapter 15, Section IV Special Duty Examinations and Standards, Articles 15-62 – 15-101, rewrite of all articles, NAVMED P-117, (update pending signature)

NATOPS General Flight and Operational Instructions Manual, 2023 NATOPS Summit, edited multiple chapter sections and two forms, CNAF M-3710, September 2023

NATOPS General Flight and Operational Instructions Manual, Chapter 8 Aeromedical and Survival, co-edited with Linderman, J., Dang, J., CNAF M-3710, September 2020

Hoffman et al., Navy Medicine COVID-19 Return to Flight Duty Status Guideline, Naval Aerospace Medical Institute, Aeromedical Reference and Waiver Guide, August 2020

Hoffman et al., BUMED Physiological Episodes Clinical Practice Guideline, United States Navy Bureau of Medicine and Surgery, February 2020