Defense Health Agency (DHA) Clinical Communities Speaker Series

2025 JUNE CCSS: Evidence-Based Approaches for Advancing Excellence in Primary Care

2025 JUNE CCSS S04: Artificial Intelligence in Primary Care: From Hype to Practical Impact

Resource List

The National Academy of Medicine's (NAM, 2025) special publication on Generative AI in Health and Medicine explores the transformative potential of AI-driven technologies in clinical decision making, patient management, and biomedical research in primary care settings and beyond. It highlights both opportunities such as reducing clinician burden and improving diagnostics—and risks, including data privacy concerns, and algorithmic limitations. For military healthcare providers, generative AI can enhance battlefield medical documentation, predictive analytics for injury treatment and real-time decision support. The publication emphasizes the need for collaborations and oversight to ensure AI benefits military healthcare without compromising security or patient safety. By integrating AI responsibly, military health systems can optimize medical resource allocation and improve patient outcomes in dynamic and unpredictable conditions.

The U.S. Department of Health and Human Services (HHS, 2025) released its AI Strategic Plan on January 13, 2025, outlining a coordinated approach to integrating AI into healthcare, public health, and human services. For military healthcare providers, AI can enhance predictive analytics, medical logistics, battlefield diagnostics, and operational efficiency. The initiative ensures AI adoption aligns with security standards, helping military health systems leverage AI responsibly. By integrating AI, military healthcare can optimize decision-making and emergency responses within military treatment facilities as well as deployed settings where mobile primary care clinics are operational.

The Global Initiative on AI for Health (GI-AI4H), launched by the World Health Organization (WHO, 2025) aims to establish governance structures, policies, and technical guidance to adopt evidence-based AI in healthcare. This initiative fosters global collaboration, ensuring AI technologies enhance healthcare accessibility and effectiveness while maintaining safety. For military healthcare providers, AI-driven solutions can improve documentation, remote patient monitoring and operational efficiency, particularly in primary care settings and combat/emergency scenarios. The initiative supports the responsible deployment of AI, helping military health systems worldwide integrate advanced technologies while mitigating risks and enhancing patient outcomes.

The Centers for Disease Control and Prevention's (CDC, 2023) Data Modernization Initiative leverages artificial intelligence (AI) and machine learning (ML) to enhance public health data analysis and response. These technologies help process large datasets, identify patterns, and predict outcomes, improving the speed and accuracy of health surveillance. For military health care providers, integrating AI and ML can optimize the management of health data in austere environments, enhance decision-making, and improve patient care outcomes by providing timely and precise insights. This approach ensures that military health systems remain responsive and effective in primary care settings statewide as well as the more challenging conditions that are faced in deployed settings.

References

Centers for Disease Control and Prevention. (2023). Artificial Intelligence and machine learning. Retrieved from https://www.cdc.gov/surveillance/data-modernization/technologies/ai-ml.html

National Academies of Sciences, Engineering and Medicine. (2025). Generative Artificial Intelligence in health and medicine: Opportunities and responsibilities for transformative innovation. Washington, DC: The National Academies Press. Retrieved from https://doi.org/10.17226/28907

U.S. Department of Health and Human Services. (2025). Artificial Intelligence (AI) at HHS. Retrieved from https://www.healthcareitnews.com/news/hhs-publishes-ai-strategic-plan-guidance-healthcare-public-health-human-services

World Health Organization. (2025). Global initiative on AI for health. Retrieved from https://www.who.int/initiatives/global-initiative-on-ai-for-health