

DEFENSE HEALTH BOARD OPEN MEETING MINUTES

March 5, 2024 8111 Gatehouse Rd, Falls Church, Virginia 22042

1. Attendees – Appendix One

2. March 5, 2024 – Opening Remarks

CAPT Clausen welcomed the Defense Health Board (DHB) Members, Distinguished Visitors (DVs), and public attendees to the meeting and called the meeting to order. Dr. Guice welcomed the Members. The Members and DVs introduced themselves. CAPT Clausen provided administrative remarks.

3. Decision Brief: Prolonged Theater Care

Dr. Armstrong presented the decision brief for the first of two *Prolonged Theater Care* (PTC) reports. The Trauma and Injury (T&I) Subcommittee (SC) will present its second *PTC* report to the DHB in September. Please see read-ahead slide deck (Appendix 3) for more information. Dr. Armstrong reviewed report findings and recommendations. The Members deliberated and approved the findings and recommendations, with edits. Discussion points of note:

- Finding and Recommendation 1:
 - RADM (Ret.) Chinn expressed support for creating a registry for military-civilian and Department of Veterans Affairs trauma training partnerships (MCP). He asked for additional details on partnerships, such as who is trained and the training location. Dr. Armstrong stated existing registries are incomplete, citing training volume, program instruction, and other key variables are poorly recorded.
 - Dr. Berwick stated the report's findings convey a sense of "non-compliance" with training guidelines. He cited reference to "type unknown" in Table 3 of the report and asked how DoD can consider this categorization sufficient.
 - Dr. Armstrong explained this observation matches Finding 1, which highlights the insufficiency of the existing registry, and Recommendation 1 to ensure the registry is consistent with guidelines outlined in the National Defense Authorization Act (NDAA) for Fiscal Year (FY) 2017.
 - LTG Crosland addressed Dr. Berwick's "noncompliance" concern. She suggested reframing the topic as "what are we missing?" She emphasized that the Services are "federated," and PTC is in the context of their Service-specific needs rather than in whole-of-military terms. She stated the Services have a better understanding of their specific MCP outcomes than the Defense Health Agency (DHA).
 - Dr. Guice noted the 2017 NDAA changed some Service and DHA responsibilities, and that DoD is presently adjusting to these changes. LTG Crosland stated the 2017 NDAA added responsibilities to DHA but not to the

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Services. She stated the Services' perspective has consequently, "not changed much." She noted the Services – not DHA – continue to provide trained and ready forces.

- Dr. Berwick further stated concerns regarding registries' vulnerability to cyberattacks and raised concerns as to unspecified "infrastructure" factors that may contribute to compliance with training standards. Dr. Armstrong stated the second report would address cyber vulnerability concerns.
- LTG Crosland asked if the T&I SC spoke to the Service Surgeons General. Dr. Armstrong stated the SC spoke to the Joint Staff Surgeon and to Joint Trauma System (JTS) representatives. He stated additional conversations are planned to support the second report. LTG Crosland urged the SC to hear the Service Surgeon General's perspectives on training requirements.
- Gen (Ret.) Chilton asked what the phrase "existing registry" refers to. Dr. Armstrong explained the JTS maintains a registry of MCPs, and that the SC reviewed and attempted to evaluate these data but found that it was inadequate. Gen (Ret.) Chilton asked who is responsible for the JTS registry. Dr. Armstrong stated the responsibility belongs to the DHA. He further noted challenges of data comparability and missing data. He stated poor data collection contributes to poor understanding of the PTC skill deficits.
- Dr. Alleyne asked whether Dr. Armstrong would characterize the report's findings and recommendations as "non-linear." Dr. Armstrong described the report's findings and recommendations as "nested." Dr. Alleyne asked if the T&I SC has an example of an optimal system it can use as a "guidepost." Dr. Armstrong stated the second report will include such examples, as well as list best practices and an overall needs assessment.
- Dr. Jacobs discussed the importance of the tasking, noting the need to plan and train for mass casualties in a near-peer conflict scenario. He reiterated the importance of practitioners training in advance of using their skills in such a scenario. LTG Crosland stated these concerns are shared by the Service Chiefs and that the DHB is not in isolation in addressing these issues.
- Dr. Valadka asked if the Services are tracking MCP data. CMSgt Johnson stated the Services track MCP data. Dr. Guice noted the T&I SC had uncovered instances of poor tracking by the Services. LTG Crosland stated the Services use different terms to measure knowledge, skills, and abilities (KSAs), but that these data should be comparable.
- Dr. Browne asked if the DHB should specify what information comprises a useful registry. Dr. Armstrong stated the DHA knows what a good registry looks like and the JTS has a good framework but the Service data inputs are lacking.
- Dr. Armstrong suggested language changes to Finding 1. Dr. Browne suggested language changes to Recommendation 1. The Members discussed the language recommendations, including language directing the recommendation to the ASD(HA) and language specifying reporting timelines.
- The Members unanimously voted to approve Finding 1 and Recommendation 1.
- Finding and Recommendation 2:
 - Dr. Parkinson asked whether the term "may" suggests the SC does not find its recommendation to be adequate. Dr. Armstrong stated the term "may" was carefully

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chosen in response to "sensitivities around this issue." He stated the SC is being careful because it does not currently have full access to the relevant data. BG Collard stated this language is imprecise. He suggested omitting it if the SC lacks the data it needs to support a more definitive finding. Dr. Armstrong clarified that the SC has adequate data to establish the existence of the referenced problem but not to measure it because these data are classified.

- Dr. Guice suggested adding the term "active duty" to Finding 2.
- Dr. Jacobs again emphasized the urgency of the report.
- RADM (Ret.) Chinn asked whether the report would address the possible insufficiency of the all-volunteer force in a near-peer conflict scenario. Dr. Armstrong stated it would not.
- Dr. Guice suggested replacing "demands" with "requirements." Dr. Parkinson agreed with this suggestion. Dr. Guice suggested adding the term "evolving" to "requirements." Dr. Berwick suggested the terms "future" or "projected" rather than "evolving."
- The Members unanimously voted to approve Finding 2 and Recommendation 2.
- Finding and Recommendation 3:
 - Dr. Guice stated enlisted personnel skills development in private-sector medicine is limited by scope of practice laws. She asked what the scope of practice barriers are for MCPs. There are MCPs that allow enlisted Service members (SM) to practice; however, these data are typically not recorded in the same way as for clinical staff. Level 1 and Level 2 trauma centers are certified by the American College of Surgeons, and this certification standard defines scopes of practice, given that it impacts trauma centers' financial viability.
 - Dr. Berwick stated Findings and Recommendations 3-6 implicate the Combatant Commanders (CCDRs). LTG Crosland stated the CCDRs do not determine readiness; rather, they "send the demand signal" – e.g., the need for additional trauma care capability. She stated the Joint Staff Surgeon then goes to the Services to provide the needed resources.
 - Dr. Parkinson asked if Recommendation 3 should be directed to DHA. Dr. Armstrong stated the T&I SC thought the recommendation needed to be directed to a higher level, given that it called for additional resources. Dr. Guice suggested directing the recommendation to the Office of Personnel and Readiness (P&R).
 - The Members unanimously voted to approve Finding 3 and Recommendation 3.
- Finding and Recommendation 4:
 - Dr. Parkinson asked if the Services' individual training requirements are inadequate or if the challenge is merely a "translation" challenge owing to the lack of a common lexicon. Dr. Armstrong stated there is a gap in the Services' capacities that a standardized program of instruction could help to resolve.
 - Dr. Jacobs stated the scale of combat operations in WWII necessitated standardization. Dr. Guice suggested adding a reference to "just in time training" to Recommendation 4.
 - CMSgt Wigington stated the Services have their own internal standardized processes.
 BG Collard added the Joint Staff Surgeon does not typically dictate standardized curricula. He further noted that directing this recommendation to the USD(P&R) is

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unusual. Dr. Guice clarified that the DHB makes recommendations to which the Department can concur or non-concur.

- The Members unanimously voted to approve Finding 4 and Recommendation 4.
- Finding and Recommendation 5:
 - LTG Crosland stated the Services, rather than the DHA, "owns" MCPs. The members discussed language additions. Dr. Guice asked if Recommendation 5 is consistent with current legal requirements. LTG Crosland stated she would need to investigate this. CAPT Clausen read from the applicable section of the 2017 NDAA. Dr. Guice stated Recommendation 5 must also be consistent with DoD Instruction. Dr. Armstrong stated the SC believes this issue requires a "higher look."
 - Dr. Bishop asked if the DHA is now responsible for defining readiness gaps. Dr. Armstrong stated DoD is a "complex ecosystem" and that DHA shares this obligation with the Services. He stated the 2017 NDAA contained a requirement to investigate readiness gaps. He stated the SC feels the issue needs to be elevated to the "DHA level" for it to be adequately addressed.
 - The Members unanimously voted to approve Finding 5 and Recommendation 5.
- Finding and Recommendation 6:
 - Dr. Guice asked where KSA efforts are housed. Ms. Mullen stated Health Affairs has regular meetings where KSAs are defined, and that these definitions are included in quarterly reports to the Deputy Secretary of Defense. LTG Crosland and Ms. Mullen stated Finding 6 is accurate.
 - The members discussed "joint" versus individual Service tracking of KSAs. Dr. Berwick asked how feedback loops would be addressed. Dr. Armstrong stated this topic would be addressed in the second report. CMSgt Johnson stated the secondary goal of Recommendation 6 is to build confidence. LTG Crosland suggested removing the word "joint." Gen (Ret.) Chilton suggested replacing "joint" with "single."
 - The Members unanimously voted to approve Finding 6 and Recommendation 6.

4. Tasker Update: Effective Public Health Communications Strategies with Department of Defense Personnel

Dr. Bishop updated the DHB on the Public Health (PH) SC's report, *Effective Public Health Communications Strategies with Department of Defense Personnel*. She discussed emerging report findings and areas for further investigation. Please see attached slides (Appendix 4) for more information. Discussion points of note:

- Dr. Parkinson asked where the "social media effect" on declining trust in institutions appears in the chart from Gallup. He additionally asked whether standard operating procedures have been developed for communicating health information.
 - Dr. Bishop stated the PH SC has reviewed health communications best practices but has not compiled them into a rubric. Dr. Alleyne stated such rubrics exist already, including guidelines for digesting social media content.
 - Dr. Alleyne suggested the DoD partner with civilian organizations to advance health messages. Dr. Alleyne and Dr. Medows discussed military "influencers" on TikTok.

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- Dr. Caban Alizondo stated promoting health literacy can help to improve trust in health experts. She stated health care providers can help build trust in health experts by sharing information with patients and their families. Dr. Bishop agreed and emphasized the importance of supporting a culture of public health in DoD.
- Dr. Berwick asked whether Emerging Finding 2 would address tempo. He suggested the DHB could help to lay a foundation for future emergency communications. Dr. Maybank echoed this point. Dr. Bishop stated language referencing a "warm body of activity" speaks to preempting future crisis health communication challenges.
- Dr. Medows stated the report should also emphasize combatting misinformation. She suggested utilizing professionals who specialize in reputation and crisis management to promote trust in expertise within DoD. She stated rapidly responding to misinformation can help to preserve trust and that misperceptions are more difficult to correct once they have taken root. Dr. Bishop stated DoD health information posters could address misinformation.
- Gen (Ret.) Chilton asked whether SM trust in their superiors has declined. He stated, "you cannot surge trust" in response to crises. Dr. Parkinson agreed. Gen (Ret.) Chilton suggested reviewing the histories of anthrax and smallpox vaccinations. Dr. Alleyne agreed, stating these comparisons illustrate how trust in health experts has changed.
- The Members discussed their support for identifying trusted messengers and asked whether such messengers would include the Service Surgeons General. The Members discussed how health messages can be better aligned. Dr. Alleyne stated "technical exchange meetings" are useful in this regard.

5. Perspectives on Artificial Intelligence and the Opportunities and Risks in Health Care.

- Dr. David Barnes presented "Some AI Considerations" (Appendix 5). His presentation emphasized the limitations and risks associated with utilizing artificial intelligence (AI) programs, the unique capabilities AI offers, and concerns related to privacy and the "human element."
- Dr. Kenneth Goodman presented on "Ethics, Medicine, and Artificial Intelligence" (Appendix 6). His presentation emphasized AI concerns related to bias, safety, transparency, explainability, accountability, responsibility, and governance.
- Dr. Seth Schobel presented on the "Integration of Artificial Intelligence and Machine Learning into Clinical Workflows" (Appendix 7). His presentation discussed recent medical applications of AI programs involving electronic health records, surgical critical care, and predicting sepsis.

6. Panel Discussion on Artificial Intelligence

The Members discussed the implications of AI developments for MHS healthcare with Drs. Barnes, Goodman, and Schobel. Discussion points of interest:

• Dr. Valadka asked where the United States stands in relation to adversaries in terms of AI development and whether the U.S. and its allies are disadvantaged by their commitments to international law.

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- Dr. Barnes stated the United Sates possesses some key AI advantages over its adversaries. He noted these adversaries also possess some advantages. For example, the fusion of China's business and government sectors allows for fewer opportunities for civilian AI developers to avoid supporting the Chinese military.
- Dr. Barnes further noted concerns related to Chinese companies stealing U.S. intellectual property, and that China possesses some data advantages due to its widespread surveillance of its people. He noted that China may be closing its research and development gap with the U.S. He clarified that the U.S. nonetheless has the advantage in AI development.
- Dr. Barnes cautioned against focusing on ethics to the point of becoming overly risk adverse. As an example, the Russian state is willing to incur greater personnel losses to secure its interests whereas the U.S. is constrained, both by its values and by the need to reintegrate SMs into society.
- Dr. Goodman stated open societies tend to be more innovative and that, in this respect, American values and institutions provide structural advantages for AI development.
- Dr. Alleyne asked for the panelists' thoughts on the Coalition for Health AI (CHAI). The panelists agreed that it is good to collaborate and learn best practices from other organizations, so groups like CHAI are useful.
 - Dr. Schobel discussed research involving "digital twins." He stated AI is only as good as its data inputs.
 - Dr. Goodman noted the military has historically performed better than other institutions where bias is concerned. Dr. Goodman stated AI program explainability is inherently challenging AI programs, given the complexity of the computations involved.
- Dr. Lazarus asked whether the U.S. would be obligated to share AI-enabled medical advances with its adversaries. Dr. Schobel suggested the U.S. would likely share such advances with its allies. Dr. Goodman stated he is unaware as to what the U.S. is currently sharing with its adversaries, but that published research is publicly available. Dr. Barnes asked whether the U.S. would utilize AI-enhanced medicine to treat enemy prisoners of war.
- Dr. Jacobs asked whether AI could assist medics and corpsmen rendering medical care. Dr. Barnes responded AI could help identify medical personnel and injured SMs on the battlefield. Dr. Goodman stated this question speaks to behavioral informatics in AI.
- Dr. Berwick asked the panel their thoughts on workforce dislocations due to AI.
 - Dr. Barnes noted an example of a company that used AI to replace 700 employees. He noted call centers are likewise replacing employees.
 - Dr. Goodman discussed how technology has contributed to job loss since the Industrial Revolution.
 - Dr. Schobel stated in the next 5-8 years most AI-related efforts will focus on incorporating AI programs into existing workforces to ease workloads. "Narrowly focused" AI could be used to replace existing positions, but AI programs are likely to augment the existing health workforce.

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o Dr. Barnes stated organizations should reexamine evaluating workforce productivity.

- Dr. Maybank expressed concerns related to AI's impact on racial equity. She stated the impact of decisions to exclude melanated populations reflect bias more than blind intention. Dr. Schobel listed AI equity initiatives at the Uniformed Services University of the Health Sciences and the U.S. Government that are working to decrease bias.
- Dr. McCaw asked whether AI could contribute to human skills degradation.
 - Dr. Barnes said it could and this risk is compounded by the technology's limits (i.e., the human skill loss may not be adequately replaced by AI). Dr. Goodman concurred this is a longstanding issue with technological development.
 - Dr. Schobel gave an example of an AI tool that contributed to improved skills among clinicians by encouraging them to focus on AI-identified metrics.
 - RADM (Ret.) Chinn provided an example of skill loss due to a non-AI technological development.
 - Dr. Barnes stated the question is often whether it is necessary for a human to possess a given skill. Dr. Schobel stated that AI use in radiology helps to sort images and reserves more difficult scans for the technician. Dr. Goodman stated existing specialties evolved independently rather than through careful, directed studies based on need. Dr. Browne noted an example of a doctor who "earned his pay everyday" by knowing when not to order (costly) tests.
- Dr. Alleyne raised the concern that malicious actors could "poison" AI systems to compromise readiness. Dr. Goodman noted hospitals face regular "bots" attacks.
- Dr. Jacobs stated AI is improving but that research shows patients relate better to providers who do not use tablets or computers during patient interactions. Dr. Goodman stated new technologies sometimes become ubiquitous not because the technology improves services in relation to the best human provider but because it improves services by the *median* provider. Dr. Schobel stated this is an area where AI can deliver "quick wins." He noted "passive AI" can take notes to free doctors to communicate better with patients. Dr. Goodman and Dr. Barnes discussed privacy implications of passive AI.
- Dr. Parkinson requested the panelists' thoughts on electronic medical records (EMRs). He stated EMRs did not improve private medicine but that AI could "unwind" poor quality EMRs. Dr. Goodman stated nomograms need to be able to read health providers' writing.
- Dr. Maybank stated the American Medical Association refers to AI as "augmented intelligence." She asked if this definition is better. Dr. Barnes stated "augmented intelligence" does not best describe the attributes of AI programs. Dr. Schobel noted the importance of the "marketplace of ideas" to free societies and raised concerns that AI could intervene in this marketplace at the behest of private interests.

7. Closing Remarks

CAPT Clausen and Dr. Guice thanked everyone for their attendance. CAPT Clausen adjourned the meeting.

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8. Certification of Minutes

I hereby certify that, to the best of my knowledge, the foregoing meeting minutes are accurate and complete.

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Karen Guice, MD, MPP President, Defense Health Board

April 5, 2024

Date

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BOARD MEMBERS				
TITLE	FIRST NAME	LAST NAME	ORGANIZATION	
			DHB President	
Dr.	Karen	Guice	Executive Director and Chief Medical Officer, Ernst & Young,	
			Government and Public Sector Advisory Services	
Dr	Lenworth	Jacobs	DHB First Vice President	
DI.	Lenworth	Jacobs	Director, Trauma Institute, Hartford Hospital	
			DHB Second Vice President	
Dr.	Jeremy	Lazarus	Clinical Professor of Psychiatry, University of Colorado,	
			Denver	
Dr.	E. Oscar	Allevne	Managing Director, Public Health Division, MITRE	
			Corporation	
Dr.	John	Armstrong	Professor of Surgery, University of South Florida	
Dr.	Wilsie	Bishop	Vice Present of Health Affairs and Professor Emerita, East	
		F	Tennessee State University	
Dr.	Michael-Anne	Browne	Associate Chief Medical Officer, Stanford Children's Health	
Dr.	Maria	Caban Alizondo	Director, Health Information Management Services, UCLA	
			Health System	
(D-t)	Colin	Chinn	Chief Medical Officer, Peraton	
(Rel.)			Foundar and Managing Dorthor, Clagg International	
HON	Jackie	Clegg Dodd	Consultants LLC	
Dr	Christi	Luby	Independent Consultant and Researcher	
DI.	Chiristi	Luby	Chief Health Equity Officer and Group Vice President	
Dr.	Aletha	Maybank	American Medical Association	
-			Senior Clinical Advisor California Quality Improvement	
Dr.	Brigid	McCaw	Learning Collaborative University of California San Francisco	
Dr	Rhonda	Medows	Chief Population Health Officer Providence St. Joseph Health	
Dr.	Michael	Parkinson	Principal, P3 Health, LLC	
			Professor and Director of Neurotrauma, University of Texas	
Dr.	Alex	Valadka	Southwestern Medical Center	
DHB STAFF				
CAPT	Shawn	Clausen	Executive Director/Designated Federal Officer (DFO)	
Ms.	Camille	Gaviola	Deputy Director/Alternate DFO	
Dr.	Catherine	Zebrowski	Executive Secretary/Clinical Consultant/Alternate DFO	
Ms.	Angela	Bee	Research Analyst, MicroHealth, LLC	
Mr.	Tanner	Dean	Management Analyst (Office Support), BookZurman, Inc.	
Mr.	Rubens	Lacerda	Management Analyst (Meeting Support), BookZurman, Inc.	
Dr.	Keila	Miles	Associate Research Analyst, MicroHealth, LLC	
Mr.	Paul	Schaettle	Alternate Project Manager/Senior Analyst, MicroHealth, LLC	
Dr.	Chris	Schorr	Research Analyst, MicroHealth, LLC	
Dr.	Clarice	Waters	Project Manager/Senior Analyst, MicroHealth, LLC	
		PU	BLIC ATTENDEES	
	Dom	Arabar	Director for Clinical Programs, Headquarters Marine Corps,	
LCDK	Dell	Alchei	Health Services	
Dr	Georges	Baniamin	Executive Director, American Public Health Association, DHB	
DI.	Georges	Benjamin	Public Health Subcommittee Member	
Ms	Shannon	Bocquet	Analyst, Systems Planning & Analysis, Support to Navy S&T	
1015.	Shannon	Docquet	Board	
Mr.	Mario	Cabiao	Retired Air Force personnel	
BG	Thad	Collard	Deputy Commanding General of Operations, Army Medical	
DO	1 nau	Collaiu	Command, Office of the Surgeon General	

APPENDIX ONE: MEETING ATTENDEES

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Mr Lowell Collins Program Manager, Diversity/E		Program Manager, Diversity/Equity/Inclusion/Accessibility &		
1011.	Lowen	Commis	Resiliency Programs, Force Resilience Office	
LTG	Telita	Crosland	Director, DHA	
Ms.	Meredith	Davis	Policy Account Partner, BetterUp for Government	
Ms.	Monica	Dus	White House Fellow, Special Assistant to the Secretary, Office of the Secretary of the Navy	
Dr.	Marion	Ehrich	Professor, Department of Biomedical Sciences and Pathobiology, Virginia-Maryland College of Veterinary Medicine; DHB Public Health Subcommittee Member	
CPT(P)	Samuel	Emmerich	Epidemic Intelligence Service Officer, National Center for Health Statistics, CDC	
Dr.	Ruth	Etzel	Senior Advisor, Office of Water, Environmental Protection Agency	
Col	Maureen	Farrell	Chief, Public Health Branch, Air Force Medical Agency	
Dr.	Tanisha	Hammill	Chief Scientist, Office of the Air Force Surgeon General	
Dr.	Odette	Harris	Associate Professor of Neurosurgery & Director of Brain Injury, Stanford University School of Medicine	
RADM	Denise	Hinton	Deputy Surgeon General, Department of Health and Human Services	
CMSgt	Tanya	Johnson	Senior Enlisted Advisor, DHA	
Ms.	Kate	Kaye	Deputy Director, World Privacy Forum	
Lt Col	Samantha	Kelpis	MEDIC X Team Lead, AF Element Medical DoD	
Ms.	Ellen	Milhiser	Editor, Synopsis	
Mr.	Ed	Monachino	Senior Business Development Specialist, RTI International	
Ms. (SES)	Seileen	Mullen	Principal Deputy Assistant Secretary of Defense for Health Affairs	
Mr.	Tony	Peasant	President, Acquisition Consulting Professionals, LLC	
Ms.	Melinda	Plaugher	Chief Growth Officer, ERP International	
Mr.	Patrick	Ross	Associate Director, Federal Relations, The Joint Commission	
Lt Col	David	Sayer	Chief USAF Deployment Health Programs, AFMRA	
COL	Cleve	Sylvester	Senior Physician Assistant, FORSCOM	
Dr	Gary	Timmerman	Professor and Chair, Department of Surgery, University of South Dakota Sanford School of Medicine	
CMSgt	Thomas	Wigington	Senior Enlisted Advisor to the Joint Staff Surgeon, Office of the Joint Staff	

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APPENDIX TWO: MEETING CHAT

09:37:04 From Ellen Milhiser to Everyone:

This is a small change, but it is the Department of Veterans Affairs, not the Veterans Administration.

09:52:07 From Defense Health Board to Everyone:

Thank you and noted. We will bring it up as the Members go through the language of each Finding/Recommendation.

09:53:09 From CMSgt Thomas Wigington (OJSS) to Everyone:

OJSS Concurs with LTG Crosland.

10:55:52 From CMSgt Thomas Wigington (OJSS) to Everyone: OJSS Concurs

10:57:43 From CMSgt Thomas Wigington (OJSS) to Everyone:

That is correct.

13:56:02 From Kenneth Goodman to Everyone:

https://www.healthit.gov/topic/laws-regulation-and-policy/health-data-technology-and-interoperability-certification-program

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Title	Year
Low-Volume High-Risk Surgical Procedures: Surgical Volume & Its Relationship to Patient Safety & Quality of Care (Parts 1 & 2)	2018 & 2019
Combat Trauma Lessons Learned from Military Operations of 2001 through 2013	2015
Battlefield Medical Research Development Training & Evaluation Priorities	2012
Management of Traumatic Brain Injury in Tactical Combat Casualty Care	2012
Needle Decompression of Tension Pneumothorax Tactical Combat Casualty Care Guideline Recommendations (update to 2011 report)	2012
Supraglottic Airway Use in Tactical Evacuation Care	2012
Prehospital Use of Ketamine in Battlefield Analgesia	2012
Needle Decompression of Tension Pneumothorax & Cardiopulmonary Resuscitation TCCC	2011
PRE-DECISIONAL DRAFT	

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Title	Year
Combat Ready Clamp Addition to the Tactical Combat Casualty Care Guidelines	2011
Addition of Tranexamic Acid to the Tactical Combat Casualty Care Guidelines	2011
Use of Dried Plasma in Prehospital Battlefield Resuscitation	2011
Tactical Evacuation Care Improvements within the Department of Defense	2011
Tactical Combat Casualty Care Training for Deploying Personnel	2011
Battlefield Trauma Care Research Development Test & Evaluation Priorities	2011
Tactical Combat Casualty Care Guidelines on the Prevention of Hypothermia	2010
Tactical Combat Casualty Care Guidelines on Fluid Resuscitation	2010
Tactical Combat Casualty Care Burn Management Guidelines	2010







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• MCPs i	ntended to provide pre-deployment training
• MCPs a "peace	id in the sustainment of critical wartime skills to prevent the time effect" or "Walker Dip"
 GAO id person 	entified MCPs as an important adjunct to training enlisted medical nel, who comprise 66% of the total medical force
MCPs clinical	istinct from training agreements with civilian hospitals for initial skills acquisition

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Date	Meeting	Discussion Topics
Oct 11, 2023	T&I Meeting	TOR Overview, Objectives, Guiding Principles, Report Timeline
Oct 25, 2023	T&I Meeting	Brief on Integrated CONUS Medical Operation Plan Report Development: Report Outline, Subject Matter Experts
Nov 1, 2023	T&I Meeting	Brief on Strategic Priorities in Peer/Near-Peer Conflict Report Development: Report Outline
Nov 8, 2023	T&I Meeting	Brief on PFC/PCC in the Joint Trauma System
Nov 15, 2023	T&I Meeting	Brief on Walking Blood Bank Report Development: Report Outline

Date	Meeting	Discussion Topics
Nov 29, 2023	DHB Meeting	Tasker Introduction at DHB Meeting
Dec 13, 2023	T&I Meeting	Report Development: Report Outline, Review Information Brief, Report Timeline
Dec 20, 2023	T&I Meeting	Brief with Joint Staff Surgeon
Jan 10, 2024	T&I Meeting	Report Development
Jan 31, 2024	T&I Meeting	Report Development
Feb 7, 2024	T&I Meeting	Report Development
Feb 14, 2024	T&I Meeting	Report Development
Feb 21, 2024	T&I Meeting	Report Development

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A registry of military-civilian & Department of Veterans Affairs Administration been fully established or sustained; thus, the existing Joint Trauma System Military-Civilian Training Partnership Registry contains insufficient information to evaluate program performance or readiness skills of military medical personnel training at military-civilian training partnership sites.

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Current active duty military medical forces may be insufficient to meet the demands future requirements of large-scale combat operations, & current models used to estimate personnel requirements against casualty estimates may be unreliable.

PRE-DECISIONAL DRAFT

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Slide 21

CW0 Suggested amendment: ASD(HA) should issue a report annually based on the needs of the DoD.



Neither the Services nor the Joint Trauma System military-civilian training partnership registry adequately define, track, or assess wartime medical skills training for enlisted personnel at militarycivilian trauma training partnerships.

Finding 3

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Overview 7 Agenua	0
Membership	
Tasking	
Objectives and Scope	
Report/ToR Crosswalk	
Background	
Guiding Principles	
Emerging Findings	
Way Forward	
Backup Slides: Summary of Subcommittee Activities to Date	
Defense Health Board	

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Meeting Date	Discussion Topics
Dec 12, 2023: PH Meeting	The deadly rise of anti-science Report development discussion Emergency communications and operations in the information environment
Jan 2, 2024: PH Meeting	COVID-19 Learnings from the front lines Report development discussion
Jan 16, 2024: PH Meeting	Report development discussion
Jan 30, 2024: PH Meeting	Report development discussion
Feb 27, 2024: PH Meeting	Report development discussion





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KESPONSIBLE DOD FESONIEL WILL BEREISE APPROFINIE LEVES OF JUDOMENT AND CARE, WHILE VEMAINING REMONISE FOR THE DEVELOPMENT, DEPLOYMENT, AND USE OF AL CAPABILITIES.
EQUITABLE: THE DEPARTMENT WILL TAKE DELIBERATE STEPS TO MINIMUE UNINTENDED BIAS IN AT CAPABILITIES
TRACEABLE: THE DEPARTMENT'S AT CARAMLES WELLEE DEVELORED AND DEPLOYED ISCH THAT PREEMANT RESCHART POSIESS ALL ARROWNER (INDERSTANDING OF THE TECHNICOGY, DEVELORIUM THAT PROCESSES, AND ORTHODAN, UNFERD ARREVALE TO A CARABULES, ENCODING WITH TRANSPARTMENT AND AUGTRALE WETHODOLOGES, DATA SOLRES, AND DESIGN PROCESSIE AND DOCUMENTATION.
RELIABLE: THE DEPARTMENT'S AT CAPABLIES WILL HAVE EXPLICIT, WELLEBEINED USES, AND THE SAFETY, SECURITY, AND EFFECTIVENESS OF SUCH CAPABLIES WILL BE SUBJECT TO TESTING AND ASSUBANCE WITHIN THOS DEFINED USES ACROSS THEIR ENTIRE UFECYCLES.
GOVERNABLE: THE DEPARTMENT WILL DESIGN AND ENGINEER AI CAPABLITIES TO FULFILL THER INTERDED TUNCTIONS WHILE POSSESSING THE ARIUM TO DETECT AND AVOID UNIVERNEED CONSEQUENCES, AND THE ABLIT TO DISENSAGE OR DEACTIVATE DEPLOYED SYSTEMS THAT DEMONSTRATE UNIVERDED BEHAVIOR.

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	ARI Martinesaman Andre Statemannes Andre Stateman	tanta tati
technologie	in accordance with our nation's values and the rule of law.	



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The Hard Problem

- The Parfait System: no bias, no confabulation, explainable to the satisfaction of all, designed by committed and responsible coders, manufactured by corporations dedicated to the common good ...
- Affordable, reliable, easy to use
 Consistently more accurate than human experts

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Hurray ... or uh-oh?

- The data and information scraped from electronic health records, registries, etc. and used to train the Parfait System thus guides practice and eventually replaces the data and information used to train future systems

- Future systems are thus trained on data and information derived from practice shaped or guided by computers
- Which data and information is used to train new systems
- Progress, or the systematic replacement of a store of human-acquired knowledge by machine intelligence?

In the Meantime...

- "Better than humans" is usually a good thing. Humans + tools are better than humans without tools,
 ...which tend to be imperfect (sometimes because of
- · The more we look the more we find uncertainty if not
- This analysis and its findings will continue for the foreseeable future.



We're Used to Error, Inaccuracy

- His progress is poo.
 His progressis is poo.
 Mr X was seen by himself in the hospital room today.
 I saw but dicht see the order placed. Thank you.
 I saked that her houses Mr. H deing prior to come to the hospital.
 His current PPS 505% is more related to ...
 Seen by Neurology, unable to do MRI due to penile metal prosthesis.
 Still minimally arousable.
 He initially presented by EMS who report they found him on the side
 of the road stalling he wished to diet.
 ... is an 82 you. male admitted on 112/3 with a primary diagnosis of No
 primary diagnosis.

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Additional DOD Issues

- Familiar adoption issuesFailure to adopt as potentially blameworthy
- Implementation as research
- · EHR capacity, vendors, oversight Education

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Standards

- Value-driven standards support ethically optimized products, processes, and actions
- They are public, transparent, and driven by transparent
- processes
- See https://www.hl7.org/, https://www.iso.org/standards.html, https://www.ieee.org/standards/#

Indexis Communication (1998-1999), Institute of Medicine, "Strategies to Protect the Health of Deployed U.S. Forces," (Document LM, Joslenbock, PK Russell, SB Guze, eds., Medical Follow Up Agency Institute of Medicane, Strategies to Protect the Health of Deployed U.S. Forces, Medical Surveillance Record Keeping, and Resk Reduction, Washington, D.C. National Academy Press, 1999). Reviewer, National Academy of Sciences, Institute of Medicine, Committee on Battlefield Radiation Exposure Criteria, 1999. (Document: S Thaul, H O'Maonaigh, eds. Potential Radiation Exposure in Military Operations, Washington, D.C.: National Academy Press, 1999.)

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