



Research & Development within the Military Health System

Saving Lives, Improving Readiness,
and Advancing the Art and Science
of Military Medicine



MG James K. Gilman
Commanding General,
US Army Medical Research and Materiel Command

27 January 2011

Report Documentation Page

Form Approved
OMB No. 0704-0188

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

1. REPORT DATE 27 JAN 2011	2. REPORT TYPE	3. DATES COVERED 00-00-2011 to 00-00-2011			
4. TITLE AND SUBTITLE Research & Development within the Military Health System. Saving Lives, Improving Readiness, and Advancing the Art and Science of Military Medicine		5a. CONTRACT NUMBER			
		5b. GRANT NUMBER			
		5c. PROGRAM ELEMENT NUMBER			
6. AUTHOR(S)		5d. PROJECT NUMBER			
		5e. TASK NUMBER			
		5f. WORK UNIT NUMBER			
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) US Army Medical Research and Materiel Command, MCMR-ZA, Fort Detrick, MD, 21702		8. PERFORMING ORGANIZATION REPORT NUMBER			
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)		10. SPONSOR/MONITOR'S ACRONYM(S)			
		11. SPONSOR/MONITOR'S REPORT NUMBER(S)			
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES presented at the 2011 Military Health System Conference, January 24-27, National Harbor, Maryland					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 10	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			



Two Kinds of Military Medical Research



How They Differ from Each Other

Criteria	Clinical Investigations	Requirements Driven
Initiated by	Investigator	Warfighter
Supports	Graduate Medical Education	Military Operations
Scope	Projects and Studies	Research Programs
Funding	DHP O&M (Program 8)	Service/DHP RDTE (Program 6)
Location	Medical Treatment Facilities	Service Labs (USAMRMC, NMRC, AFRL)
Researchers	Primarily Clinicians	Full-time Researchers
Focus	Academic	Applied - Provide a Capability

FUNDING ACRONYMS:

DHP – Defense Health Program
 O&M – Operations and Maintenance
 RDTE – Research, Development, Testing, & Evaluation

SERVICE LAB ACRONYMS:

AFRL – Air Force Research Lab
 NMRC – Naval Medical Research Center
 USAMRMC – US Army Medical Research and Materiel Command

The Two Kinds of Military Medical Research are not Mutually Exclusive



HBO₂ mTBI Research Program



USAF Phase II Study (n=50)

DARPA/VA/Navy Phase II Study (n=60)

HOPPS Phase II Study (n=96)

Symptom Survey Validation

FDA End of Phase II

DSMB

DSMB

Mechanism of Action Study (n=300)

Multicenter Pivotal Trial (n=300+) – in life until FY13

Long Term Follow-up Study (all)



ACRONYMS:

- **DARPA** – Defense Advanced Research Projects Agency
- **DSMB** – Data and Safety Monitoring Board
- **FDA** – US Food and Drug Administration
- **HOPPS** – Hyperbaric Oxygen for Persistent Post-Concussive Symptoms After Mild Traumatic Brain Injury – pilot feasibility study at the VA
- **USAF** – US Air Force
- **VA** – Veterans Administration

Apr 10

Jul 10

Oct 10

Jan 11

Apr 11

Jul 11

Oct 11

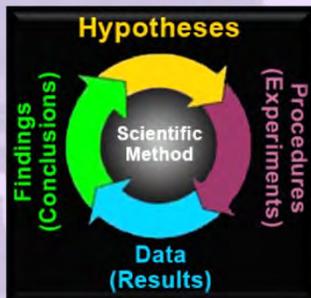
Jan 12



Two Kinds of Military Medical Research



How They are the Same



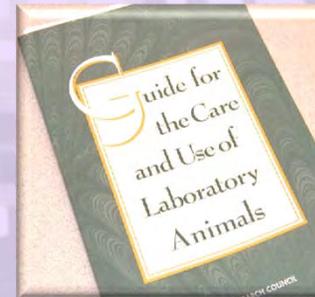
Scientific Method



Ethical Principles



Protections for Human Subjects
(*Human Research Protections Office – HRPO*)



Protections for Animal Subjects
(*Animal Care and Use Review Office – ACURO*)



Principles of Fiscal Stewardship



US Army Medical Research & Materiel Command

Customer-Focused Programs & Outcomes





SYMPOSIUM PRESENTATIONS



Service	Title	Speaker	Discussant
Army	Infections Complicating the Care of Combat Casualties during Operations Iraqi Freedom and Enduring Freedom	LTC Clinton Murray, MD	Edward Tramont, MD
Navy	Morphine Use After Combat Injury in Iraq and Post-Traumatic Stress Disorder	Troy Lisa Holbrook, PhD	CAPT Paul Hammer, MD
Air Force	Contactin 4 as an Autism Susceptibility Locus	Col Randall Zernzach, MD	Ron Miller, PhD
TMA	Differences in Prevalence, Treatment, and Outcomes of Asthma Among a Diverse Population of Children with Equal Access to Care	Thomas Williams, PhD	CAPT Peter Linz, MD



DISCLAIMER



The results and conclusions of the studies and research being presented represent the views of the researchers and discussants and do not necessarily represent official DoD or service policy.





Battlefield Health and Trauma Research Center, Fort Sam Houston, Texas

Ribbon cutting will be 4 February 2011



Battlefield Health & Trauma Research Center
Gilbane Building Co. Project #4468
Ft. Sam Houston, TX Date: October 30, 2010



Battlefield Health and Trauma Research Center, Fort Sam Houston, Texas

Ribbon cutting will be 4 February 2011

