



# 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*

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# 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**



# HBO<sub>2</sub> 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

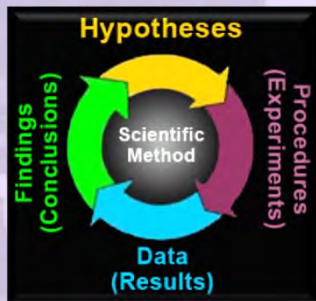
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# Two Kinds of Military Medical Research



## How They are the Same



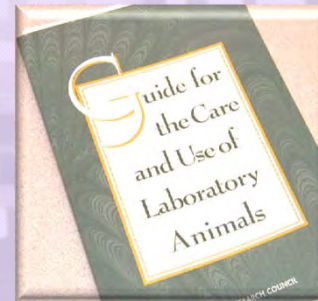
Scientific Method



Ethical Principles



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



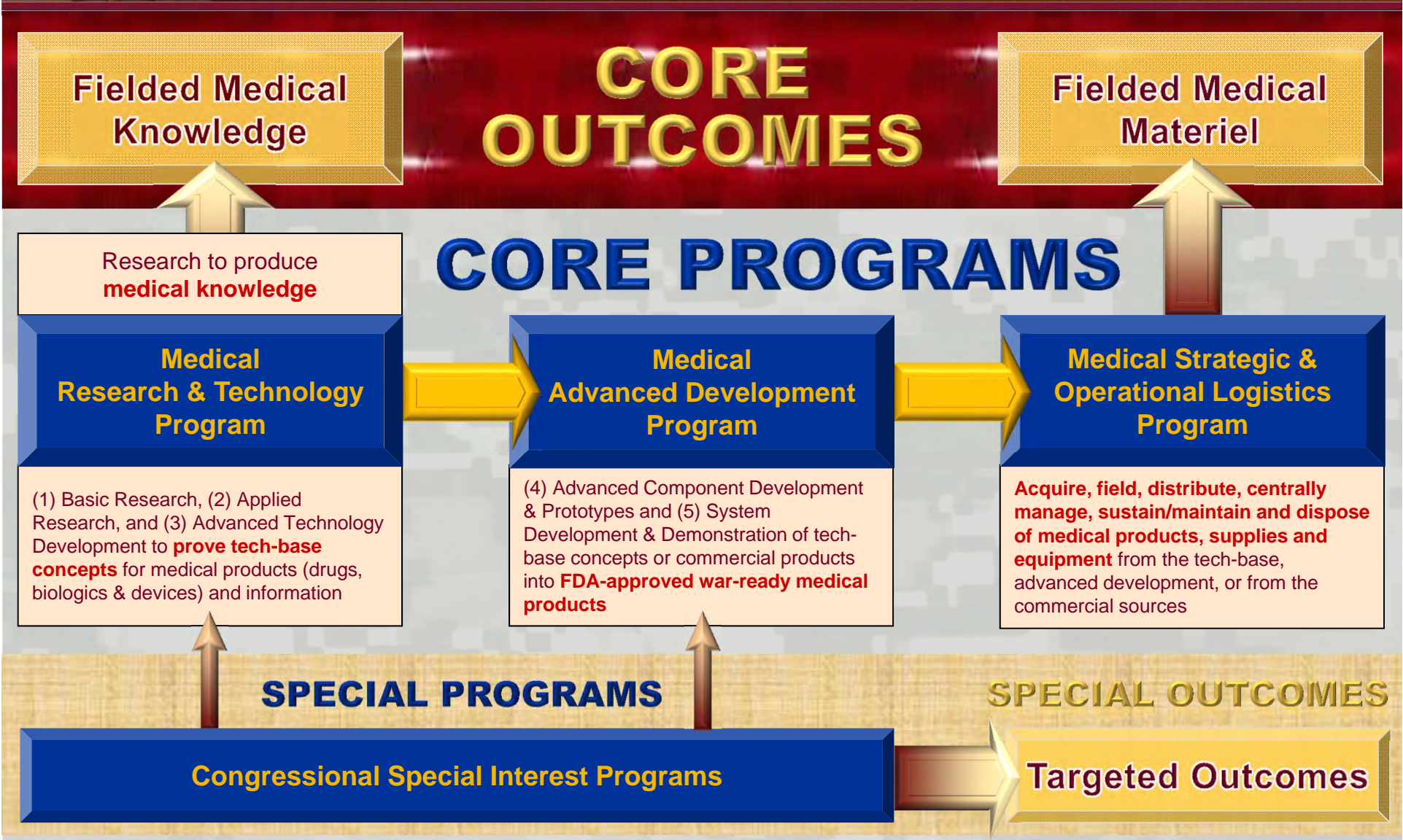
Protections for Animal Subjects  
(*Animal Care and Use Review Office – ACURO*)



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



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