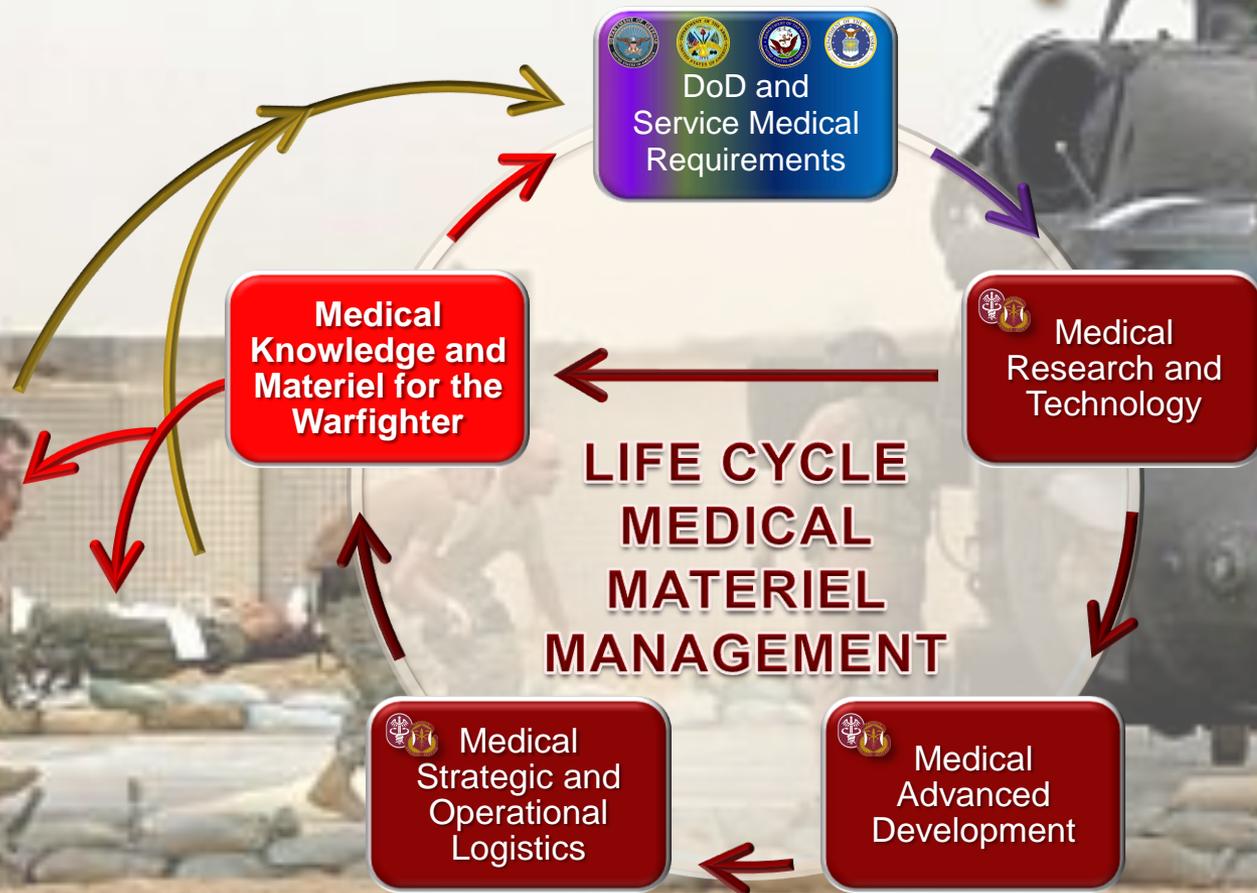


U.S. ARMY MEDICAL RESEARCH & MATERIEL COMMAND (USAMRMC)



*MG James K. Gilman
Commanding General, USAMRMC
15 November 2011*





DIFFERENT KINDS OF PEOPLE

- **Scientists:** biochemists, physiologists, molecular biologists, engineers, ...
- **Health Care Researchers:** physicians, veterinarians, dentists, nurses, audiologists, ...
- **Logisticians:** strategic and operational
- **Enlisted Soldiers:** 68KP9 Biological Sciences Assistant



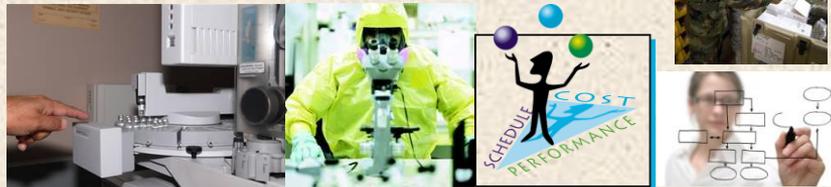
DIFFERENT KINDS OF PARTNERSHIPS

- DoD, Army, and other Service research, technology, acquisition, and logistics organizations and commands
- Other Government research and development organizations
- Academic, private sector, and international research and development



DIFFERENT KINDS OF WORK

- Medical Research and Technology
- Medical Advanced Development
- Strategic and Operational Medical Logistics
- Specific support for these activities



DIFFERENT "COLORS" OF MONEY

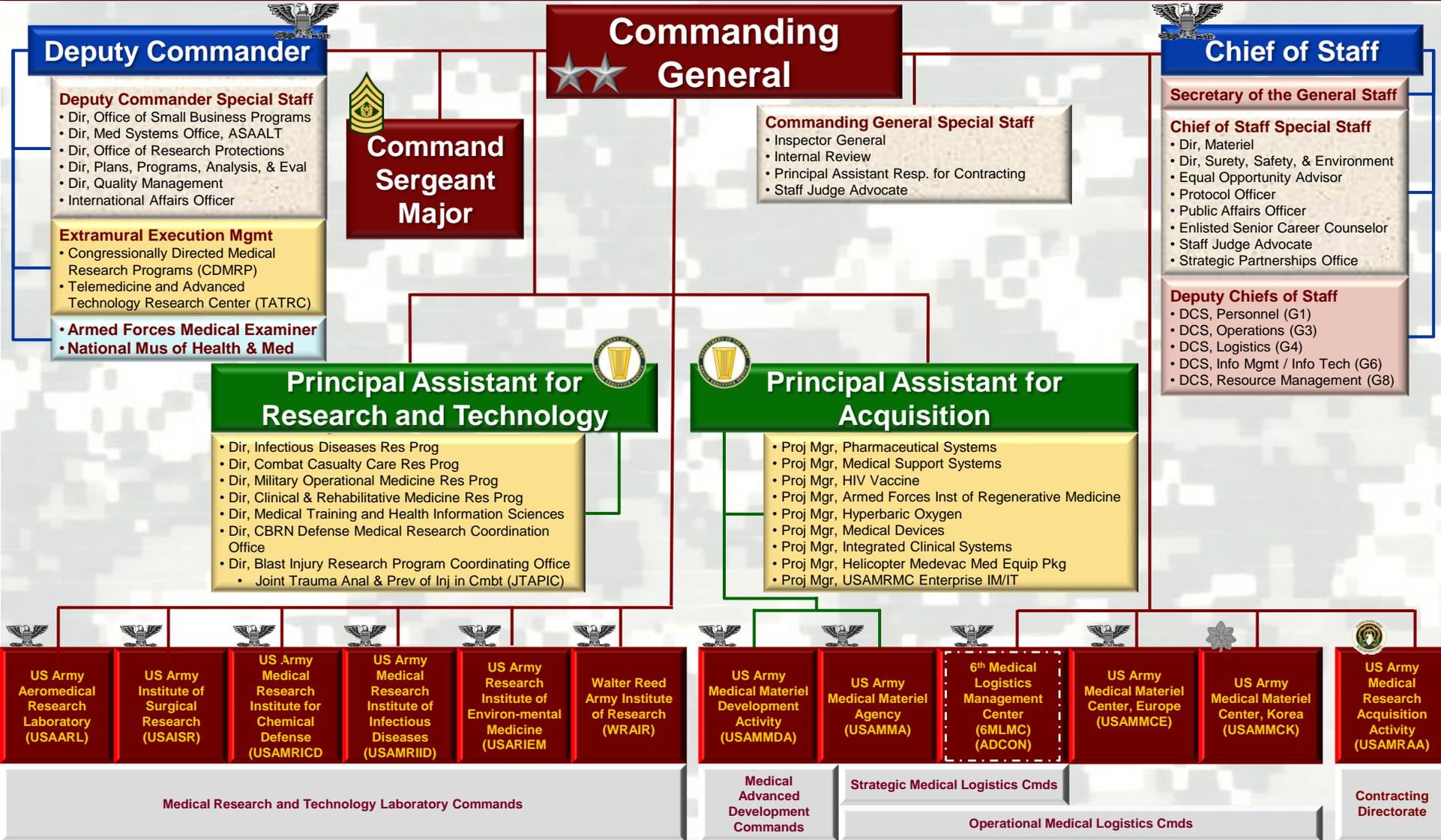
- Army, DoD, and DHP RDT&E (2-year money)
- Army O&M (1-year money)
- Army OPA (3-year money)
- Others



We don't deliver military healthcare; we make military healthcare better.

USAMRMC Actual Personnel – 30 Sep 2011			
MILITARY	CIVILIAN	CONTRACTOR	TOTAL
1,071,085	2,692	2,870	6,647
16.32%	40.50%	43.18%	100.00%

USAMRMC Organization Chart



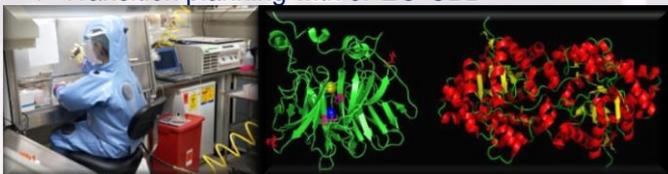
(1) Basic Research, (2) Applied Research, and (3) Advanced Technology Development to **prove tech-base concepts** for medical products (drugs, biologics & devices) and information

USAMRMC

Research & Technology (R&T) Coordination

CHEMICAL, BIOLOGICAL, RADIOLOGICAL, AND NUCLEAR DEFENSE MEDICAL RESEARCH COORDINATING OFFICE LTC Nick Koterski

- **Partner with Defense Threat Reduction Agency (DTRA) for DoD-funded medical chemical & biological defense research:**
 - **Medical Biological Defense Research**
 - ▶ Biodefense vaccines
 - ▶ Broad-spectrum & novel therapeutics
 - ▶ Small molecule therapies
 - ▶ Next generation diagnostics
 - ▶ Biosurveillance/Emerging Infectious Diseases
 - ▶ Animal model development (FDA animal rule)
 - **Medical Chemical Defense Research**
 - ▶ Nerve agent prophylaxes
 - ▶ Therapeutics for nerve and vesicant agents
 - ▶ Non-Traditional Agent (NTA) research
 - ▶ Diagnostic assays/technologies
- **CBD Laboratory Infrastructure Support Planning**
- **JPC-7 – Radiation Health Effects**
 - ▶ Partner with USUHS and AFRRRI
 - ▶ Biodosimetry, Therapeutics, Pre-treatments, & basic science
 - ▶ Transition planning with JPEO-CBD



Research Funds from DoD

DOD BLAST INJURY RESEARCH PROGRAM COORDINATING OFFICE Mr. Mike Leggieri

- **History:**
 - ▶ Directed by Congress in FY06 National Defense Authorization Act
 - ▶ Established by DoD Directive 6025.21E
 - ▶ Secretary of the Army is Executive Agent
 - ▶ USAMRMC is program coordinator
- **Mission:**

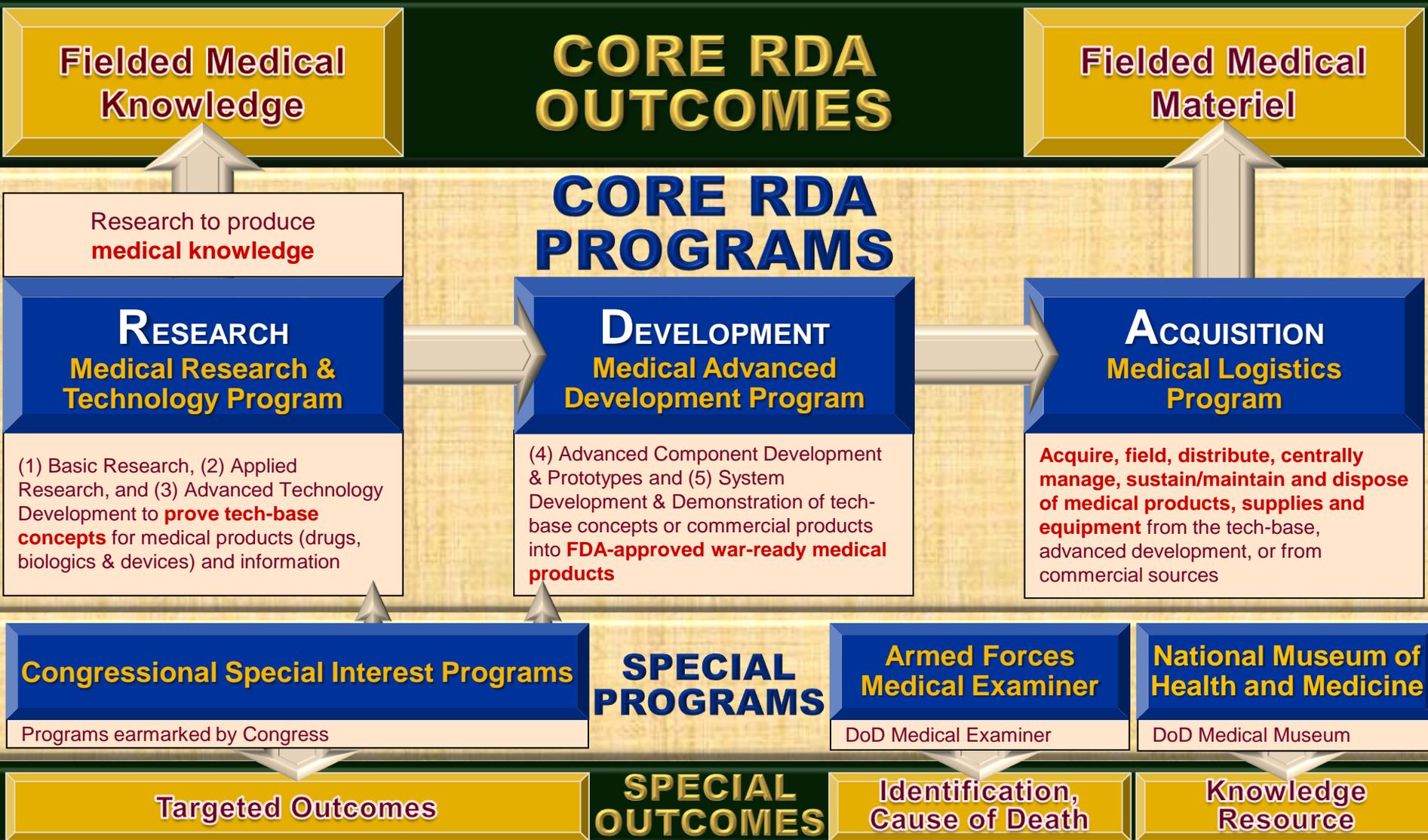
Coordinate DoD medical research programs focused on the prevention, mitigation, and treatment of blast injuries.
- **Responsibilities:**
 - ▶ ID knowledge gaps to focus blast injury research programs across DoD, federal agencies, academia, and industry
 - ▶ Develop funding requirements
 - ▶ Manage the Joint Trauma Analysis and Prevention of Injury in Combat (JTAPIC) Program - provides a coordinated approach to improve tactics, techniques, procedures, & materiel solutions to prevent blast injuries
 - ▶ Strengthen collaboration between medical researchers and materiel developers to provide improved individual and combat vehicle blast protection systems



Research Funds from Many Sources



Customer-Focused Programs & Outcomes



Fielded Medical Knowledge

CORE RDA OUTCOMES

Fielded Medical Materiel

CORE RDA PROGRAMS

Research to produce medical knowledge

RESEARCH Medical Research & Technology Program

(1) Basic Research, (2) Applied Research, and (3) Advanced Technology Development to prove tech-base concepts for medical products (drugs, biologics & devices) and information

DEVELOPMENT Medical Advanced Development Program

(4) Advanced Component Development & Prototypes and (5) System Development & Demonstration of tech-base concepts or commercial products into FDA-approved war-ready medical products

ACQUISITION Medical Logistics Program

Acquire, field, distribute, centrally manage, sustain/maintain and dispose of medical products, supplies and equipment from the tech-base, advanced development, or from commercial sources

Congressional Special Interest Programs

Programs earmarked by Congress

SPECIAL PROGRAMS

Armed Forces Medical Examiner

DoD Medical Examiner

National Museum of Health and Medicine

DoD Medical Museum

Targeted Outcomes

SPECIAL OUTCOMES

Identification, Cause of Death

Knowledge Resource

GOOD IDEAS

Can Come from Many Sources

DoD
and the
Services



Military Leaders



US Soldiers and Their Families



US Military Medical Personnel



Private Industry



Congress



6 billion Others



Academia



ENTREPRENEURS



Innovations



Salesmen



(1) Basic Research, (2) Applied Research, and (3) Advanced Technology Development to **prove tech-base concepts** for medical products (drugs, biologics & devices) and information

USAMRMC

Medical Research & Technology

Responds to Threats to Service Member Health and Performance



Endemic Disease Threats

- Parasitic Diseases
- Bacterial Diseases
- Viral Diseases

Combat Injuries

- Hemorrhage
- Head Trauma
- Blast Injury

Chemical/Biological Warfare Threats

- Bacterial Threats
- Viral Threats
- Toxin Threats
- Nerve Agents
- Vesicant Agents
- Blood Agents

Operational Stressors

- Sleep Deprivation
- Traumatic Stress and Situational Stressors
- Physical Work Load
- Cognitive Burden & Operational Complexity

Environmental Hazards

- Heat and Cold
- Altitude
- Toxic Industrial Chemicals & Materials

Battle Sequelae

- Loss of limbs
- Loss of tissue
- Loss of vision
- Pain

Systems Hazards

- Laser
- Blast
- Biomechanical Insults and Stresses
- Noise

LEST WE FORGET WHY WE ARE HERE



FREEDOM

