



This is a story about PEOPLE maintaining and improving the Nation's defense through technology, science, and systems management..



The U.S. Army Medical
Research and Materiel
Command

“Protect, Project, Sustain”

VISION

A silhouette of a soldier in full combat gear, including a helmet and a rifle, is shown from the waist up. The soldier is pointing the rifle upwards and to the left. The background is a dramatic sunset or sunrise sky, transitioning from a bright yellow-orange glow near the horizon to a darker, muted orange and red at the top. The horizon line is dark and jagged, suggesting a mountain range or a rugged landscape. The overall mood is one of vigilance and forward-looking vision.

We deliver the best medical solutions, for today and tomorrow, to enhance, protect and treat the warfighter on point for the Nation.

USAMRMC Mission

- **Project and Sustain a Healthy and Medically Protected Force**
- **Be an Agent of Transformation for the Objective Medical Force**
- **Enhance the Care of Service Members and the Military Family by Leveraging Medical Solutions**

USAMRMC Goals

- **GOAL 1:** Ensure our military forces are deployed in a state of optimal health, equipped to protect themselves from disease and injury.
- **GOAL 2:** Lead transformation for a flexible, agile and responsive Objective Medical Force.
- **GOAL 3:** Provide quality, accessible, cost-effective health solutions.

USAMRMC Core Capabilities

- 1. Shape future medical solutions through research, advanced technology, and partnerships**
- 2. Execute streamlined medical logistics, facilities and acquisition management**
- 3. Develop, integrate, acquire and sustain medical IM/IT solutions**
- 4. Provide best business and program management solutions**

USAMRMC Strategy

- Provide leadership, assessment, and oversight for our programs
- Develop strong professional and working relationships with other organizations (DOD, the Services, other agencies, Congress)
- Develop and implement a marketing strategy to help people understand the importance of the USAMRMC
- Develop and make our PEOPLE more important than the organization

USAMRMC

Major Responsibilities

1. Medical
Research and
Development

2. Global Medical
Logistics
Management

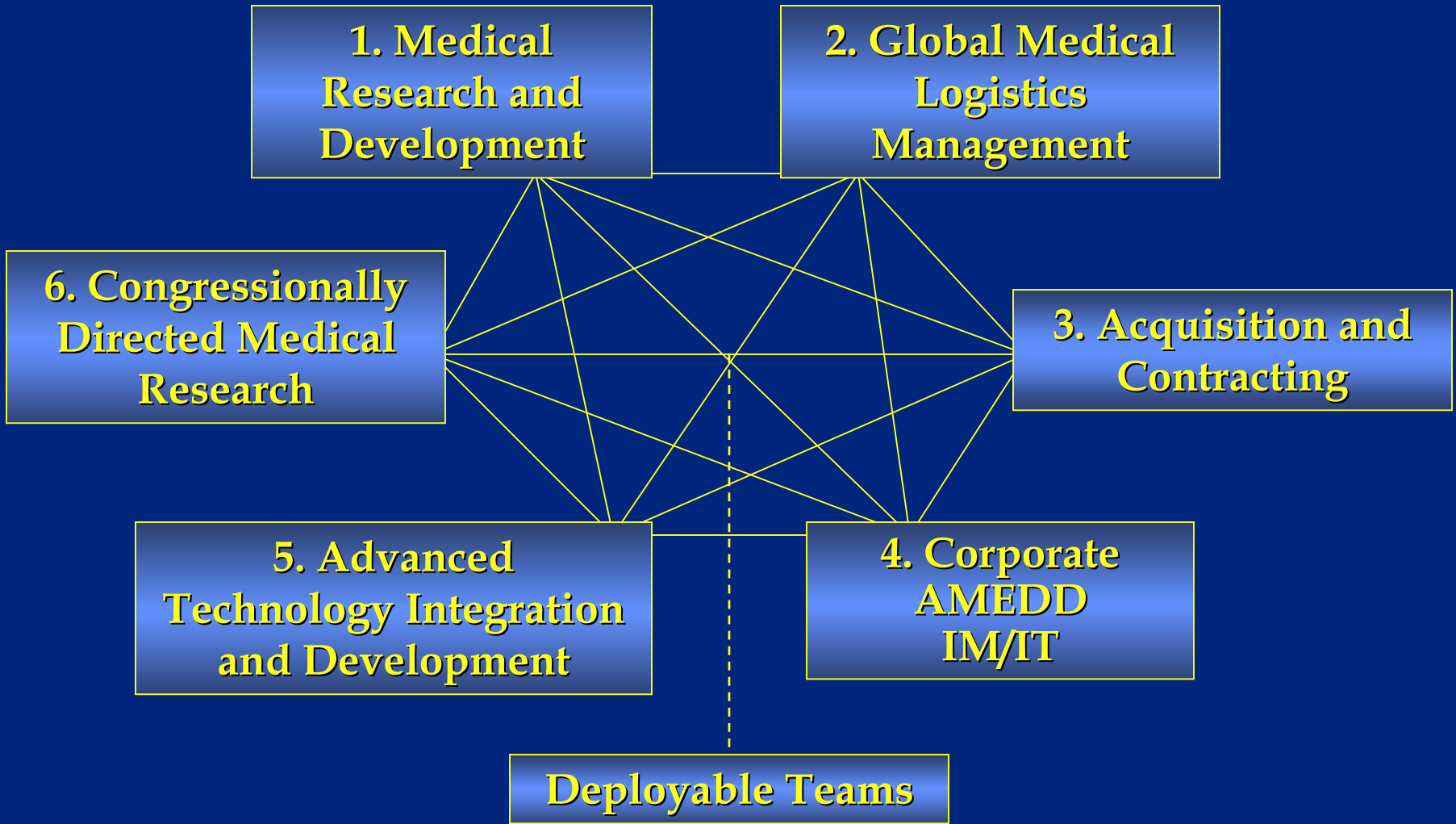
6. Congressionally
Directed Medical
Research

3. Acquisition and
Contracting

5. Advanced
Technology Integration
and Development

4. Corporate
AMEDD
IM/IT

Deployable Teams



A scientist in a white lab coat and safety glasses is working in a laboratory. He is wearing gloves and is focused on a task. In the background, another person in a lab coat is visible. The laboratory is equipped with various pieces of equipment, including a rack of test tubes and a pipette. The text "1. Medical Research and Development" is overlaid on the image in a large, bold, yellow font. Below this, a list of four research areas is also overlaid in the same yellow font: "• Military Infectious Diseases", "• Combat Casualty Care", "• Military Operational Medicine", and "• Medical Chemical and Biological Defense".

1. Medical Research and Development

- Military Infectious Diseases
- Combat Casualty Care
- Military Operational Medicine
- Medical Chemical and Biological Defense

2. Global Medical Logistics Management



- Strategic and Operational Planning and Execution
- Total Asset Visibility
- Total Life Cycle Management for Medical Materiel

3. Acquisition and Contracting

- **Contracts for Research, Services**
- **Acquisition Workforce Development, Training (Acquisition Corps)**
- **Innovative Approach to Acquisition**
 - **“Revolution in Business Affairs”**
 - **CRDAs, Rapid Prototyping, COTS Solutions, credit cards**

A person is seen from the side, working at a computer workstation. The workstation includes a monitor displaying a blue-tinted image, possibly a medical scan. In the background, there are several other computer monitors, some showing data or code. The overall scene is dimly lit, with the primary light source being the screens.

4. Corporate AMEDD Information Management/ Information Technology

- Newest Mission for the USAMRMC**
- From the MEDCEN to the Foxhole**
- Acquisition Management and Life Cycle Support for Army Medical Information Systems**

5. Advanced Technology Integration and Development

- Advanced Technologies for Enhanced Medical Access, at Home, in the Field
- Assessment of New Technologies
- Rapid Prototyping, Integration, Testing
- Tri-Service Approach, Demonstrations



Several Examples of PIC Technology

6. Congressional Programs



- Congressional appropriations not in President's budget
- \$3 Billion since FY 90
- Responsive to intent of Congress, may or may not have military relevance
- All proposals peer reviewed for scientific merit prior to award
- FY 02 total over \$600 Million in 60 appropriations

Deployable Teams

- Human Dimensions Teams (Stress assessment)
- Aeromedical Isolation Team (BioCasualties)
- Health Facility Special Medical Augmentation Response Team (SMART)
- Burn Treatment/Transport Team
- Medical Logistics Support Teams
- Telemedicine Training Teams





US Army Medical Research and Materiel Command and Ft. Detrick



★★ Commanding General 1-O ★★

Office of the Commander and Headquarters Staff
45-O 0-WO 13-EN 63-CIV 141-CON*

**Directorate for
Administrative Support**

Special Staff

**Secretary to the General's
Staff**

DCoS, Resource Mgmt

DCoS, Operations

DCoS, Info Mgmt

DCoS, Logistics

DCoS, Personnel

**DCoS, Regulatory
Compliance & Quality**

International Activities

Public Affairs Office

**Directorate for
Research Management**

Deputy for Medical Research

**Research Area Manager for
Infectious Diseases**

**Research Area Manager for
Combat Casualty Care**

**Research Area Manager for
Military Operational Medicine**

**Research Area Manager for
Chem/Bio Defense**

**Director for Telemedicine and
Advanced Technologies Research
Center (TATRC)**

**Director for Congressionally Directed
Medical Research Programs
(CDMRP)**

**Directorate for Materiel
Development and Acquisition**

**Deputy for Acquisition and
Advanced Development**

**Deputy for
Materiel**

**Deputy for
IM/IT**

* Pending documentation



US Army Medical Research and Materiel Command and Ft. Detrick



★★ Commanding General 1-O ★★

Major Subordinate Commands
394-O 13-WO 870-E 2046-CIV 718-CON

Research Laboratories

US Army Medical Research Institute of Infectious
Diseases (USAMRIID)

US Army Medical Research Institute of Chemical
Defense (USAMRICD)

US Army Research Institute of Environmental Medicine
(USARIEM)

US Army Aeromedical Research Laboratory
(USAARL)

US Army Institute of Surgical Research
(USAISR)

Walter Reed Army Institute of Research
(WRAIR)

Special Foreign Activities (Overseas Laboratories)

US Army Medical Research Detachment

US Army Dental Research Detachment

Other Commands/Directorates

US Army Medical Materiel Development Activity
(USAMMDA)

US Army Medical Materiel Agency
(USAMMA)

US Army Medical Materiel Center Europe
(USAMMCE)

US Army Medical Research Acquisition Activity
(USAMRAA)

US Army Health Facilities Planning Agency
(HFPA)

US Army Medical Information Services Support Agency
(USAMISSA)

US Army Garrison, Ft. Detrick (USAG)
and Site R



**US Army Medical Research and Materiel Command
and Ft. Detrick
(as of 30 Sep 02)**



FY02 PERSONNEL

O-435(8.8%) WO-10(0.2%) E-625(12.6%) CIV-1838(37.1%) CN-2047(41.3%)

TOTAL - 4955

FY02 FUNDING

Army RDT&E	\$ 162 M
DHP O&M	\$ 254 M
DoD RDTE (Chem/Bio)	\$ 134 M
Congressional Programs	\$ 617 M
Other	\$ 227 M
TOTAL FY02 Direct Funding:	\$1,326 M

FY02 USAMRMC Resources

(as of 30 Sep 02)

- **12 Major Subordinate Units:**
(6 Laboratories & 6 Management Units)
- **4,955 Personnel Assigned**
- **\$1,326 M Total Direct Funds Received**
- **3,286 Contract actions totaling \$302M**
- **967 Assistance Agreement actions totaling \$ 497M (i.e. Cooperative Agreements and Grants w/ Industry and Academia)**
- **111 new Cooperative Research and Development Agreements**
- **103 new Material Transfer Agreements**

FY02 Fort Detrick Installation

US Army Garrison

- 899 Personnel assigned
- \$68.3 Total Direct Funds Received
- \$39.3M Total Reimbursable Funds Received
- 48 Tenants
- **Major Tenants:** National Cancer Institute, 1111th Signal Battalion, US Dept of Agriculture, Naval Medical Logistics Command, US Army Medical Research Institute of Infectious Diseases, HQs, US Army Medical Research and Materiel Command

FY02 Total Funding - Source of Funds

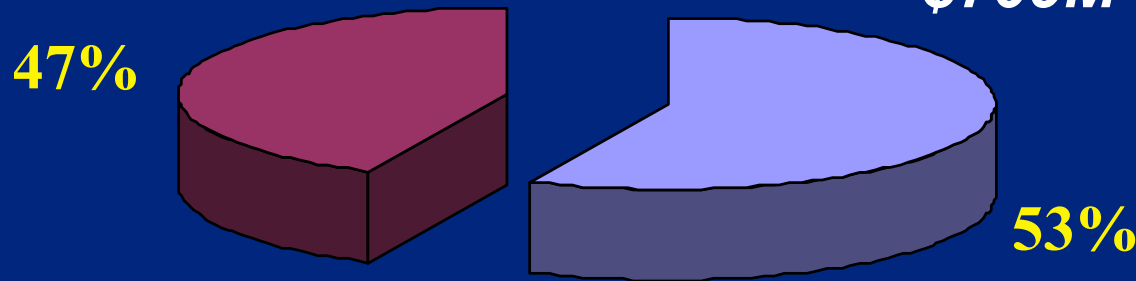
(USAMRMC)

(as of 30 Sep 2002)

Total Funds = \$1,326M

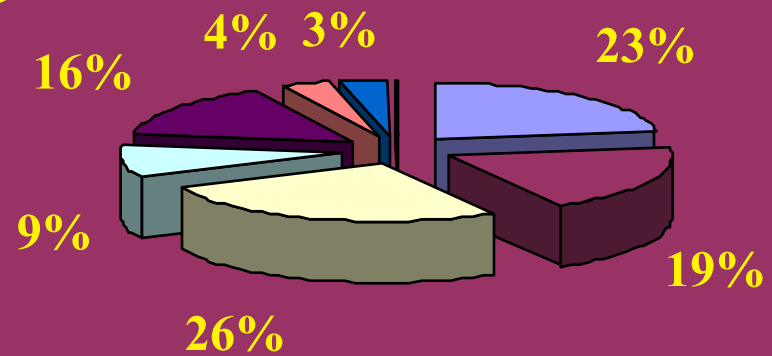
Congressional
\$617M*

Core
\$709M



*Command receives less than appropriated amounts

Core Program
Less
Congressional



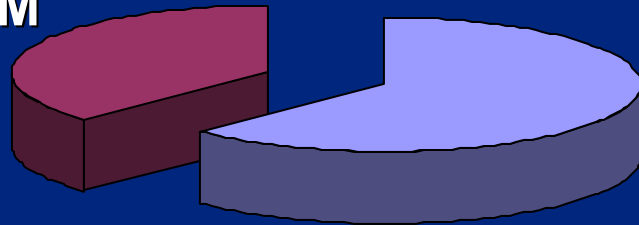
RDTE,A RDTE,D DHP MEDCASE OMA DERF OPA Other

FY02 Distribution of RDT&E Funds

(as of 30 Sep 2002)

Core RDT&E Program
Dollars = \$295M

Extramural
38%
\$110M



In-house
62%
\$185M

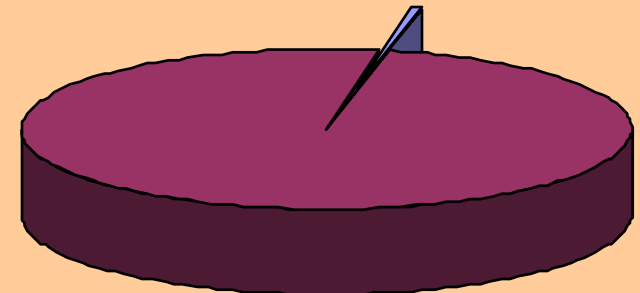
*President's
Budget*

Congressional
Dollars = \$617M

In-House
3%
\$19M

*Congressional
Special Interest*

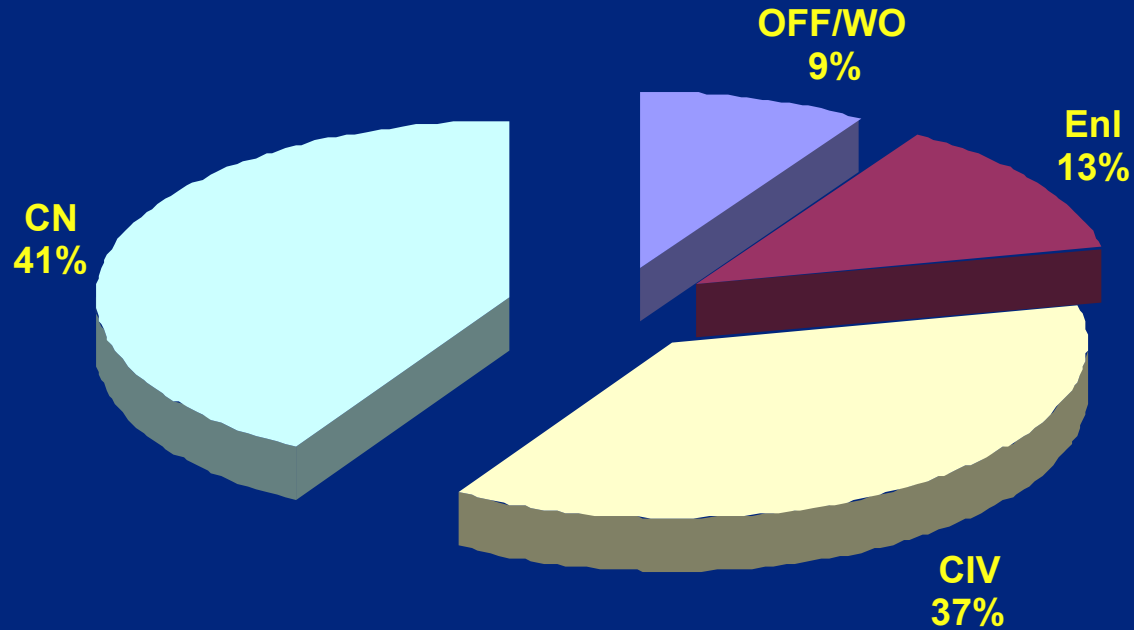
Extramural
97%
\$598M



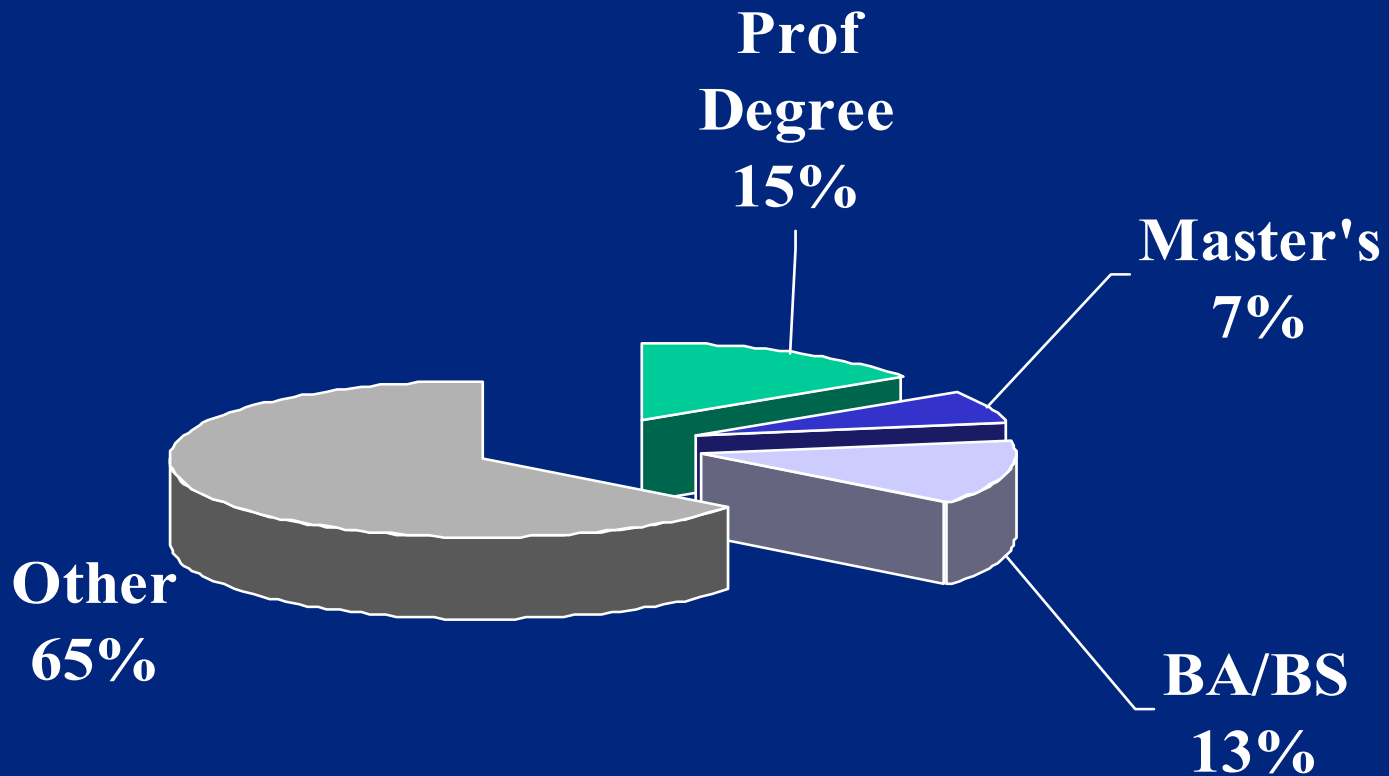


FY02 USAMRMC Personnel

(as of 30 Sep 2002)



USAMRMC Education Levels



Many Things to Many People

A scientist in a white lab coat and cap is working in a laboratory. The scene is dimly lit with a blue tint. In the foreground, there is a glowing red box with some text on it, possibly a warning label. The scientist is looking down at something in their hands, and there are various pieces of equipment and papers around them.

- **DOD Lead Agent for**
 - **Medical Chemical and Biological Defense Research**
 - **Infectious Disease Research**
 - **Military Nutrition Research**
 - **Military Dentistry Research**

Many Things to Many People

- **DOD Trainer - Medical Management of Chemical and Biological Casualties**
- **Interagency Consultant and Reference Lab for Chemical and Biological Terrorism, Readiness**
- **Coordinator - Global Emerging Infections Surveillance Program**
- **DOD Coordinator/Technical Support of Biological Arms Control Treaty**

Many Things to Many People

- **Medical Materiel Developer for the Army**
- **Medical Logistician for the Army**
- **Health Facility Planner for the Army**
- **DOD experts in protection of human, animal research subjects**
- **Steward of >\$3 billion for directed Congressional programs**

USAMRMC Major Subordinate Commands/Directorates

- **Laboratory Commands:**

1. Walter Reed Army Institute of Research (WRAIR) (5 subordinate commands)
2. U.S. Army Research Institute of Environmental Medicine (USARIEM)
3. U.S. Army Aeromedical Research Laboratory (USAARL)
4. U.S. Army Institute of Surgical Research (USAISR)
5. U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID)
6. U.S. Army Medical Research Institute of Chemical Defense (USAMRICD) (1 subordinate command)

- **Management Commands/Directorates:**

1. U.S. Army Medical Materiel Development Activity (USAMMDA)
2. U.S. Army Medical Research Acquisition Activity (USAMRAA)
3. U.S. Army Medical Materiel Agency (USAMMA)
4. U.S. Army Medical Materiel Center-Europe (USAMMCE)
5. U.S. Army Health Facility Planning Agency (USAHFPA)
6. U.S. Army Medical Information Systems and Services Agency (USAMISSA)

CONUS-Based Organizations

USADRD

WRAIR Detachment
Great Lakes, IL
Military Dental
Research

USAMRICD

APG, MD
Medical
Chemical Defense

WRAIR

Silver Spring, MD
Infectious Diseases
Combat Stress

USARIEM

Natick, MA
Nutrition and Environmental
Injury Prevention

USAMRD

WRAIR Detachment
Brooks AFB, TX
Laser Bioeffects

USAISR

Fort Sam Houston, TX
Combat Casualty Care
Burn Trauma

USAARL

Fort Rucker, AL
Medical Aspects of
Aviator Performance

USAHFPA

Falls Church, VA
Health Care
Facility Planning

USAMMA

Medical Materiel Support

USAMMDA

Adv. Medical Materiel Dvl.

USAMRAA

Contract Support

USAMRIID

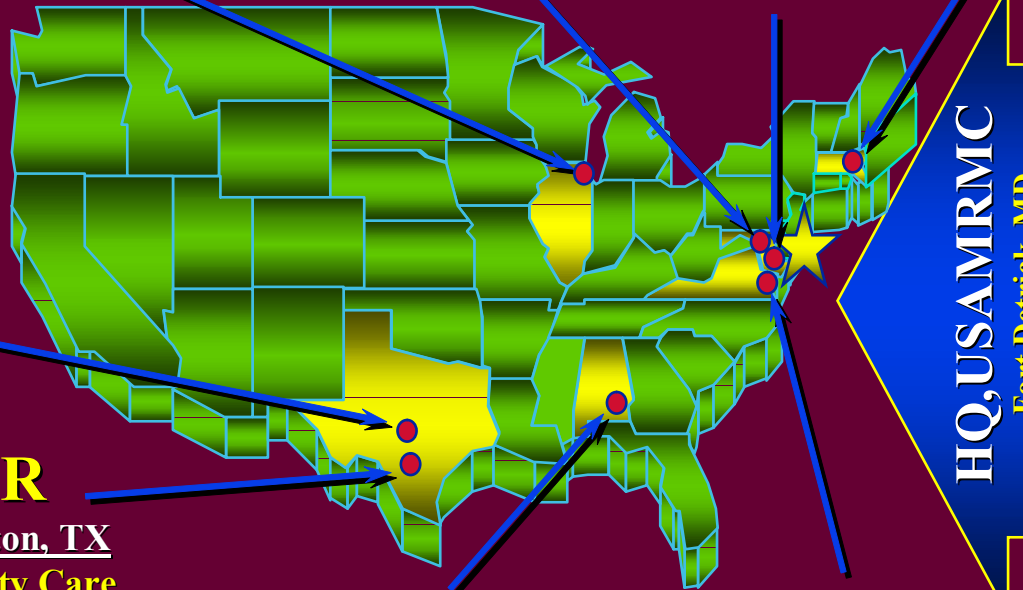
Medical Biological Defense

USAMISSA

Information Systems
& Services

USACEHR

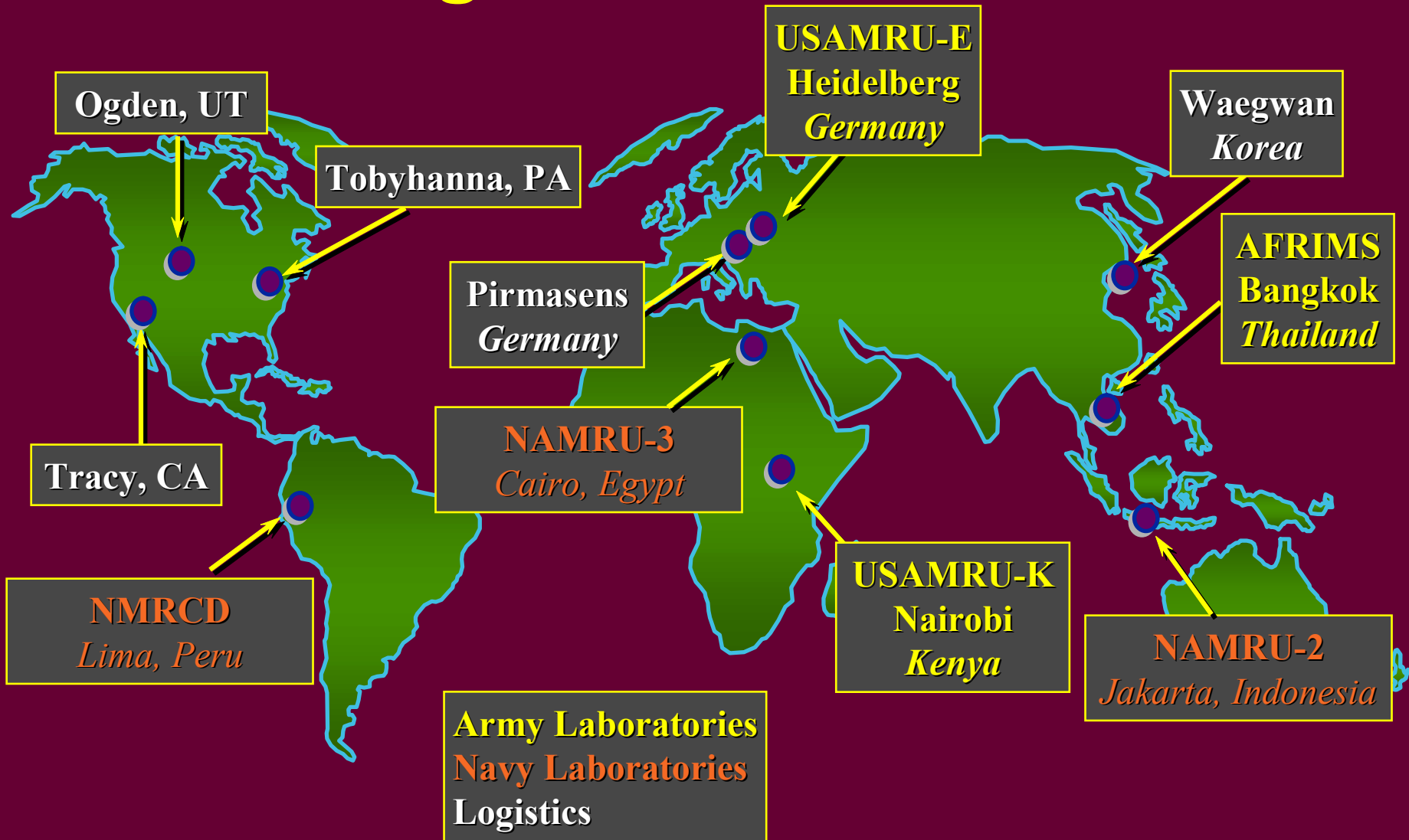
USAMRICD Detachment
Environmental Health Res.



HQ, USAMRMC
Fort Detrick, MD

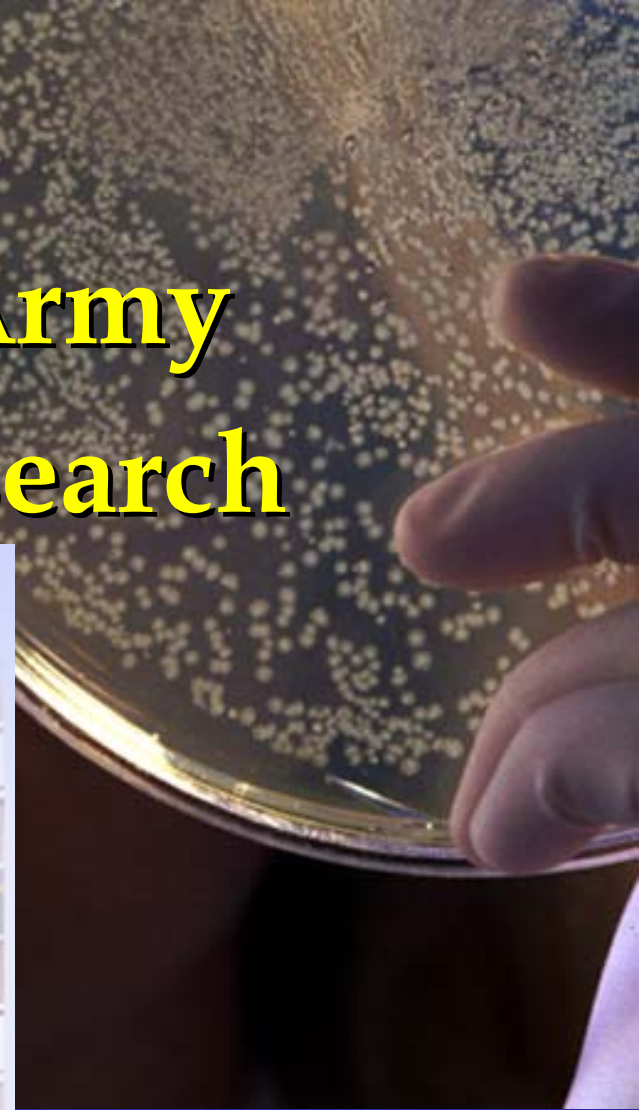
Army Laboratories
Management Units
Logistics

Overseas-Based Organizations and Logistics Infrastructure



Six Major Laboratories

Walter Reed Army Institute of Research (WRAIR)



Walter Reed Army Institute of Research (WRAIR)

- **Established 1893**
- **Lead lab for infectious disease research**
- **Expertise in combat casualty care, operational medicine, chem/bio defense**
- **Moved to new facility in FY 2000**
- **Global Emerging Infections System Hub**
- **Special Foreign Activities in Thailand, Kenya, Germany**
- **Two detachment laboratories**

U.S. Army Medical Research Detachment (USAMRD)

(Walter Reed Army Institute
of Research)



The Human Eye is the Most
Important Sensor on the Modern
Battlefield

- **Determines medical hazards of laser and radio frequency radiation**
- **Characterizes effects on soldier performance of non-ionizing radiation emitted by military systems**
- **Determines medical triage and treatment for non-ionizing radiation injuries**

U.S. Army Dental Research Detachment (USADRD)

(Walter Reed Army Institute
of Research)



- **Enhances operational preparedness and far-forward dental support**
- **Develops novel antiplaque products**
- **Develops war zone dental equipment with reduced bulk, platform weight and versatility**
- **Enhances war zone dentistry by improving dental materials, devices and methodologies**

Overseas Laboratories

(Walter Reed Army Institute of Research)

- **Armed Forces Research Institute for Medical Sciences (AFRIMS - Bangkok, Thailand)**
 - Medical research, disease surveillance and development and evaluation of medical products for militarily important infectious and tropical infectious diseases
- **U.S. Army Medical Research Unit - Europe (USAMRU-E - Heidelberg, Germany)**
 - Conduct research examining the psychological influences on the causes, cures and prevention of psychiatric battle casualties
- **U.S. Army Medical Research Unit - Kenya (USAMRU-K - Nairobi, Kenya)**
 - Develop and test improved means for predicting, detecting, preventing and treating worldwide infectious disease threats to deployed US military personnel

U.S. Army Research Institute of Environmental Medicine (USARIEM)



U.S. Army Research Institute of Environmental Medicine (USARIEM)

- **Maximizing warfighter performance**
- **Protecting warfighter health in extreme environments**
- **Lead lab for military nutrition, occupational medicine, and environmental physiology research**
- **Climatic chambers, biomechanics laboratory and hypobaric chamber**
- **High altitude research facility on Pike's Peak**

**U.S. Army Aeromedical
Research Laboratory
(USAARL)**



U.S. Army Aeromedical Research Laboratory (USAARL)

- Improve soldier/system integration and performance in aviation systems**
- Evaluate and mitigate adverse effects of health hazards such as noise, repeated impact, stress and fatigue**
- Enhance aviation life support equipment thru improved design criteria**
- Evaluate medical equipment for use aboard medical evacuation helicopters**
- Identify and solve operational problems in the aviation environment**

U.S. Army Institute of Surgical Research (USAISR)



U.S. Army Institute of Surgical Research (USAISR)

- Provides Combat Casualty Care medical solutions and products for injured soldiers
- Primary research areas include hemorrhage, resuscitation, extremity trauma, and other battle and non-battle trauma injuries
- Home of the military's only Burn Trauma Center

U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID)



U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID)

- Lead lab for medical biological defense research
- Basic research leading to vaccine, drug, and diagnostic system development
- BSL-4 laboratory (maximum containment) and patient care capability
- Educates military/civilian medical personnel in medical management of biological casualties
- Supports/trains 520th TAML
- Collaboration with other DOD and federal agencies on domestic anti-terrorism programs

U.S. Army Medical Research Institute of Chemical Defense (USAMRICD)

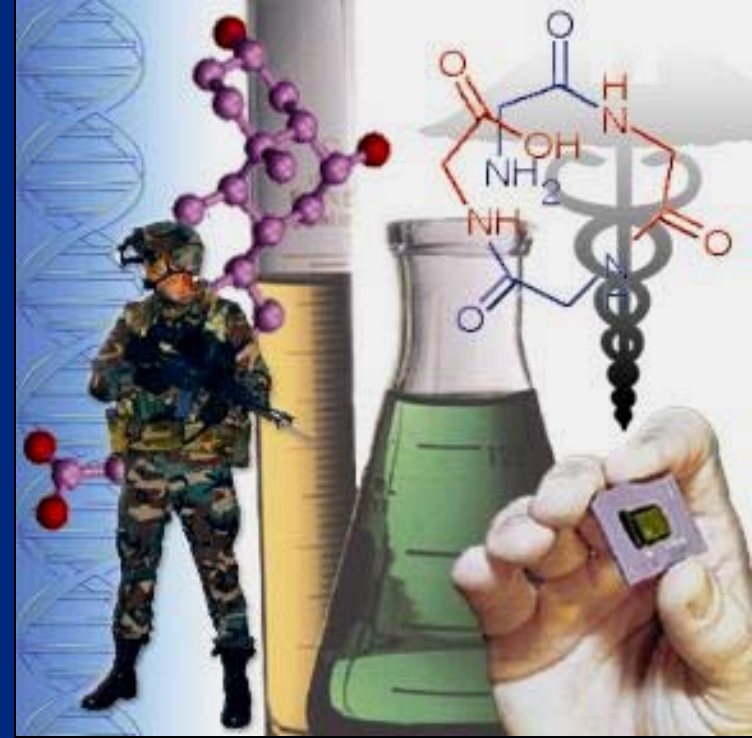


U.S. Army Medical Research Institute of Chemical Defense (USAMRICD)

- Lead lab for medical chemical defense**
- Develops medical countermeasures to chemical warfare agents**
- Trains military/civilian medical personnel in medical management of chemical casualties**
- Supports Chemical/Biological Rapid Response Team (C/B-RRT)**
- Supports/trains TAML personnel**
- Maintains unique chemical surety facility**

U.S. Army Center for Environmental Health Research (USACEHR)

(U.S. Army Medical Research Institute
of Medical Chemical Defense)



- Enhance Force Health Protection and Deployment Health Surveillance by identifying and validating biological markers of exposures, effects, and susceptibility to toxic chemicals
- Protect the soldier from environmental hazards by developing and validating new toxicity tests, including toxicogenomic and proteomic methods.
- Provide early warning of environmental hazards through the development and fielding of biomonitoring technologies.
- Develop new water and food testing technologies to ensure the safety of provisions for deployed U.S. forces.

Six Management Units

U.S. Army Medical Materiel Development Activity (USAMMDA)



U.S. Army Medical Materiel Development Activity (USAMMDA)

- **Advanced development of promising concepts/products (6.4-6.5)**
 - Meet cost, schedule and performance objectives
- **Management of clinical trials**
- **Quality Assurance**
- **Coordination with AMEDD Center and School for medical requirements**
- **Coordinate and interface with FDA**

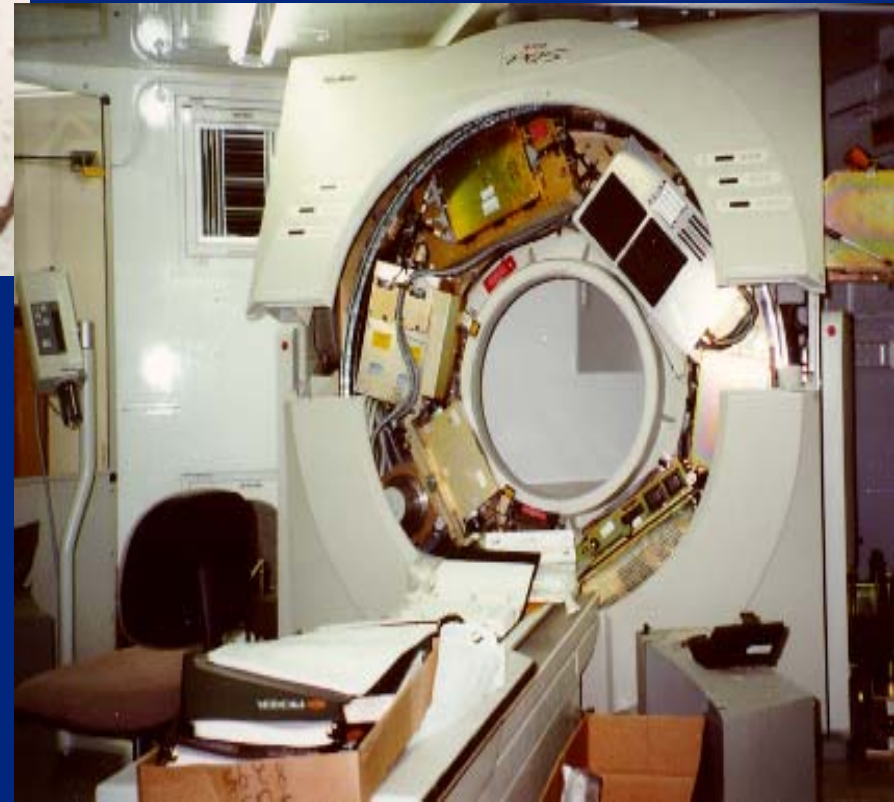
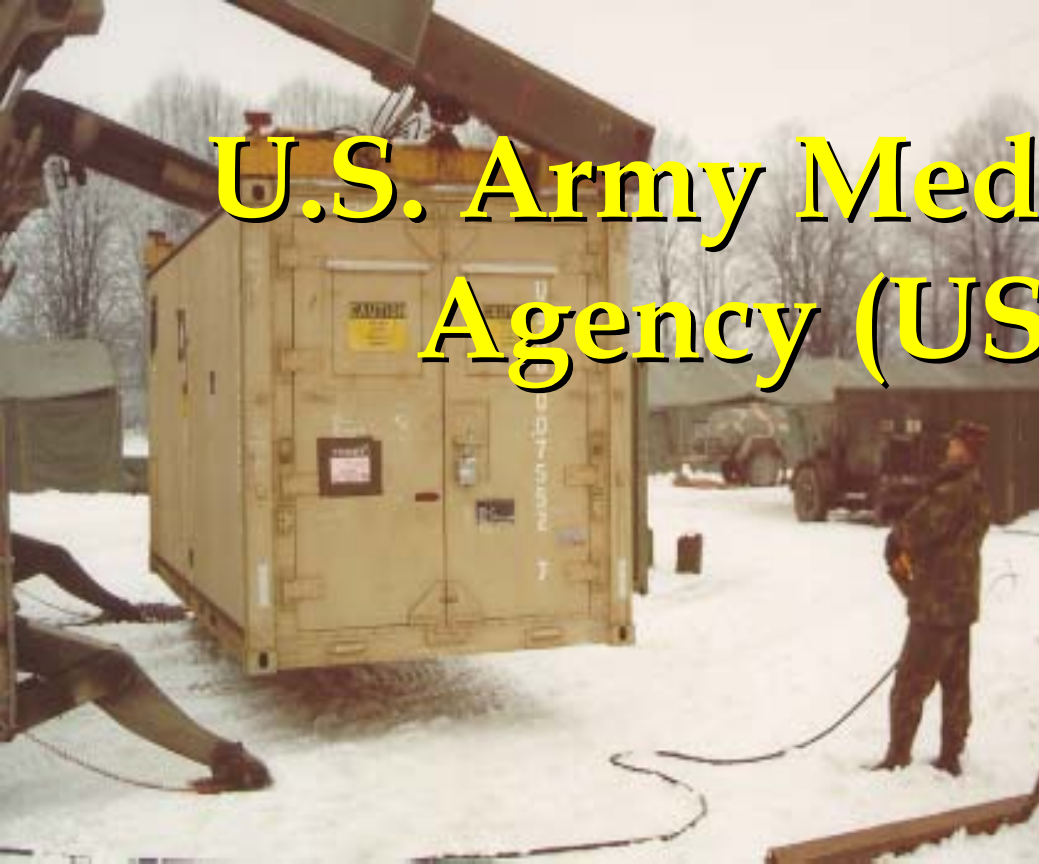


**U.S. Army Medical Research
Acquisition Activity
(USAMRAA)**

U.S. Army Medical Research Acquisition Activity (USAMRAA)

- Contracting support for all USAMRMC elements, Fort Detrick Garrison and tenant units, OSD, HQDA, and OTSG-sponsored projects, Congressional Special Interest Medical Research Programs, and reimbursable customers
- Expert advice on procurement and assistance issues
- A leader in innovation, committed to acquisition excellence

U.S. Army Medical Materiel Agency (USAMMA)



U.S. Army Medical Materiel Agency (USAMMA)

Enhancing military readiness by:

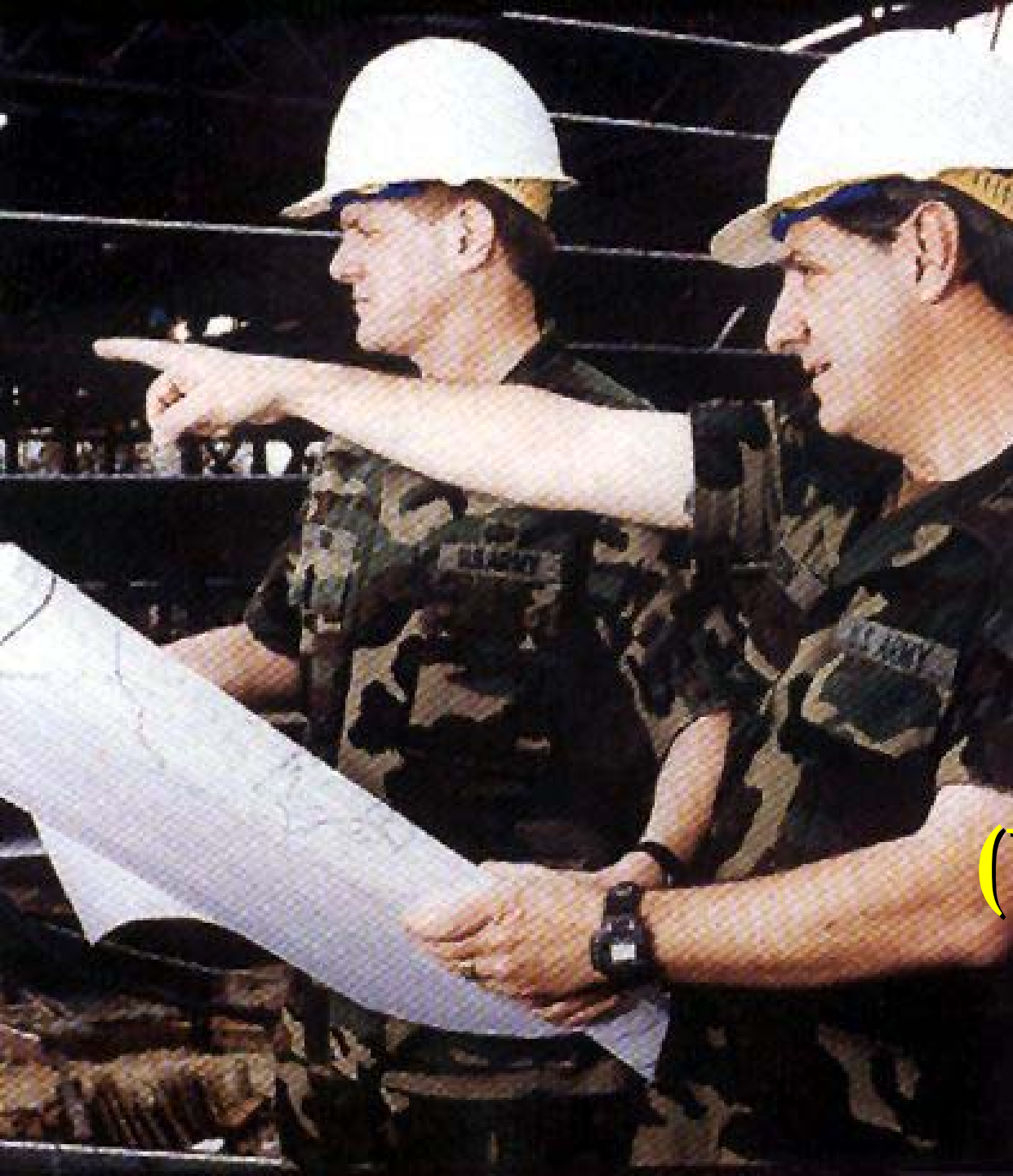
- Providing worldwide medical logistics support
- Developing and implementing innovative logistics concepts and technologies
- Managing strategic war reserve and critical items (e.g. anthrax vaccine)
- Managing acquisition life cycle for medical materiel

U.S. Army Medical Materiel Center-Europe (USAMMCE)



U.S. Army Medical Materiel Center-Europe (USAMMCE)

- Joint medical logistics support in European theater
- Power projection platform for acquisition, storage and distribution of medical materiel
- Optical fabrication
- Medical maintenance
- Total asset visibility



**U.S. Army
Health
Facility
Planning
Agency
(USAHFPA)**

U.S. Army Health Facility Planning Agency (USAHFPA)

- Plans, programs, delivers new health, dental and research facilities for the AMEDD
- Program manager for comprehensive facility life cycle management
- Army Corps of Engineers, consultant and contractor interface
- Deployable SMART-HS teams for readiness and humanitarian missions

U.S. Army Medical Information Systems and Services Agency (USAMISSA)

effective 1 Oct 03:

U.S. Army Medical Information
Technology Center (USAMITC)



U.S. Army Medical Information Systems and Services Agency (USAMISSA)

- Manage cohesive IM/IT life cycle management system for AMEDD
- Long-term modernization, acquisition and sustainment of medical IT
- One-stop shopping for hardware, software system design, procurement, and services

Headquarters, U.S. Army Medical Research and Materiel Command



Headquarters, U.S. Army Medical Research and Materiel Command

**Dedicated to creating the environments,
through proper resourcing, that allow people
to excel as they meet their customers'
requirements.**

Inventing the Future



- Enhanced medical care at point of injury
- Flexible, tailored technology systems
- Seamless, high capacity communications web
- Region/mission-specific medical support
- Joint service medical research, acquisition
- Virtual labs through knowledge-based networks
- Deployable expertise

