



# ***Amputation Care ECHO***



**Dr. Laurie Lutz**  
EACE Training, Education and Simulation



# Acknowledgements



**Defense Health Agency**  
**CAPT Tony Satterfield**  
**CAPT Jennifer Bodart**



**University of New Mexico Project ECHO**  
**(Extension for Community Healthcare Outcomes)**



# Amputation Care ECHO Objectives

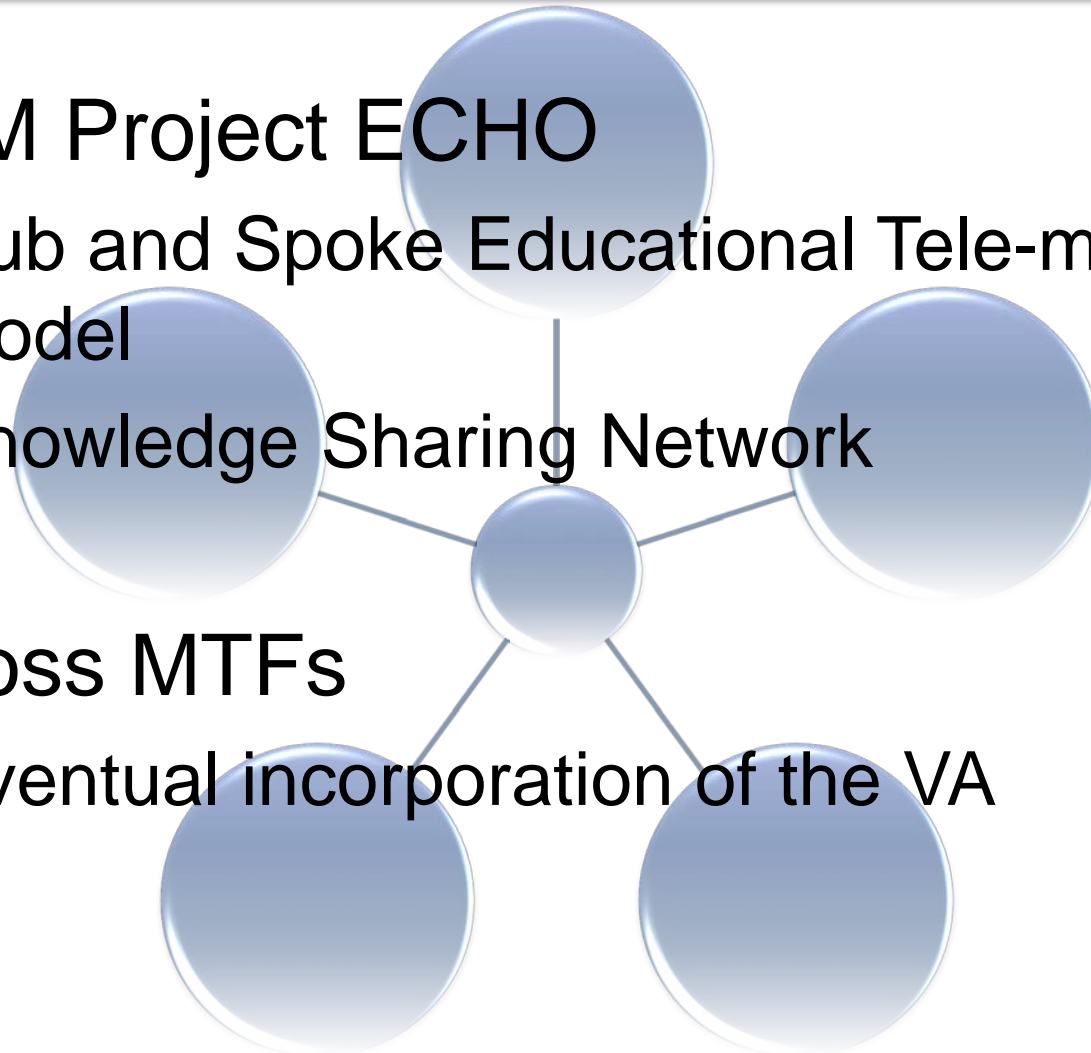


- At the conclusion of this series, the participants will be able to:
  - Apply information on clinical guidelines, best practices, new clinical developments
  - Use and maintain clinical competencies previously acquired
  - Engage with clinicians involved in amputation care to foster a knowledge sharing network both during and outside the Amputation Care ECHO sessions



# ECHO Model

- UNM Project ECHO
  - Hub and Spoke Educational Tele-mentoring Model
  - Knowledge Sharing Network
- Across MTFs
  - Eventual incorporation of the VA







# Amputation Care ECHO



## The nuts and bolts...

- Monthly
- 1.5 Hour Amputation Care ECHO sessions
- CMEs for attendance

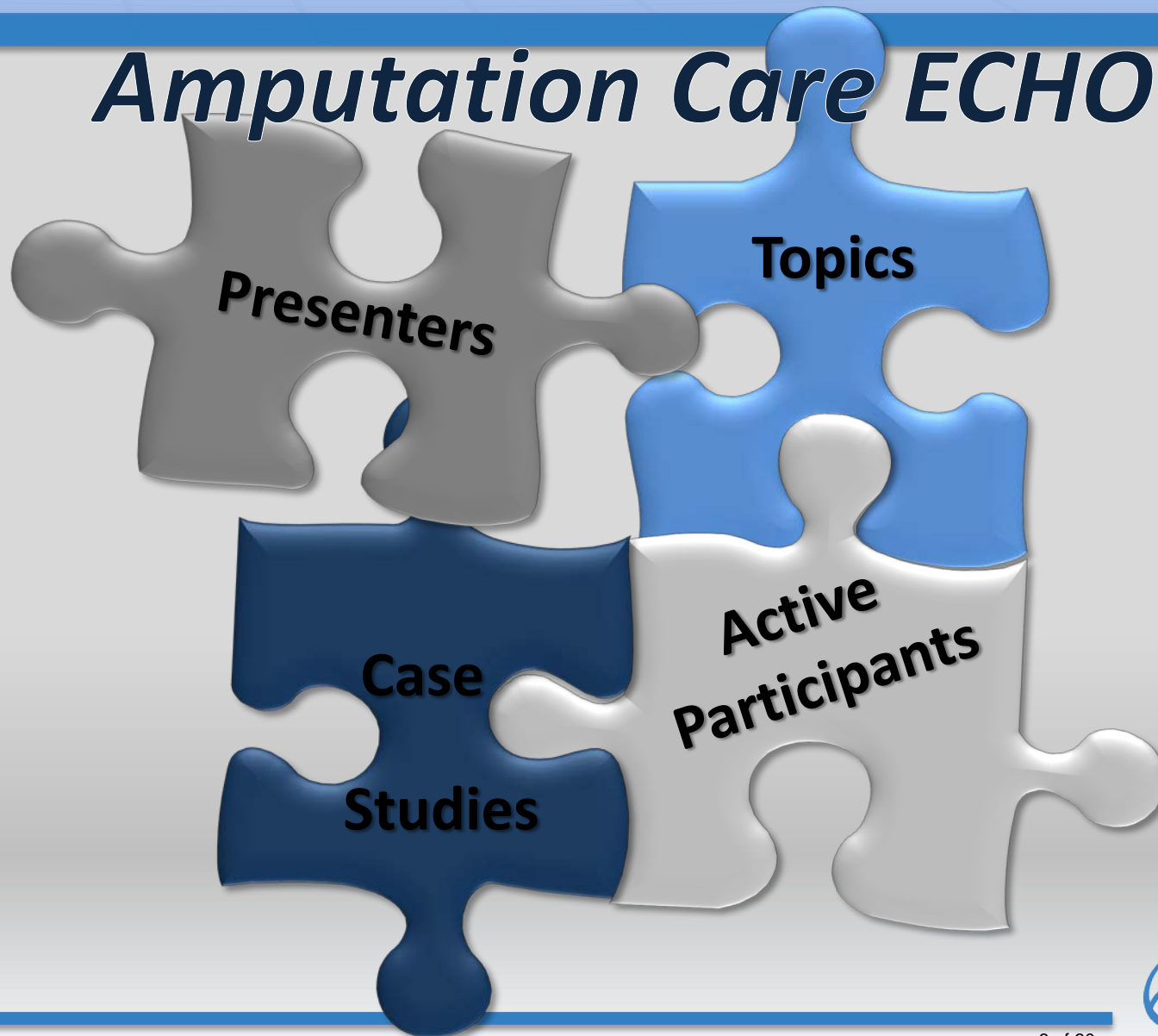
## Includes...

- Case Studies
- Didactic Presentation



# What we need...

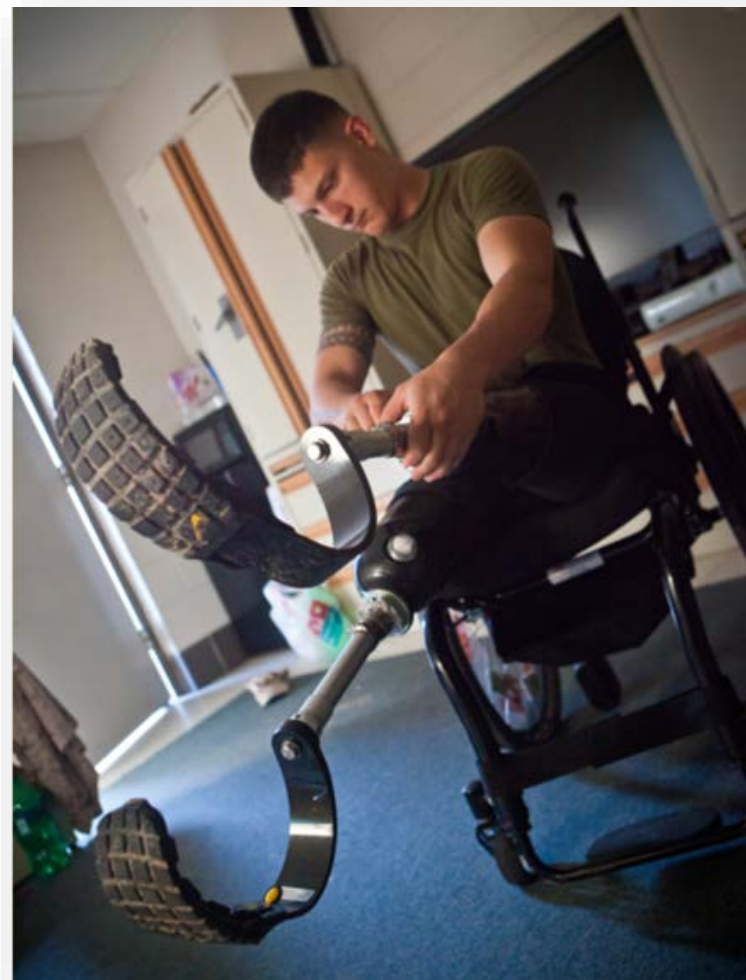
## *Amputation Care ECHO*





# To Participate:

- Pre-register
  - <https://education.mods.army.mil/cme/secured/>
  - Activity Number **2017-1472**





# Questions



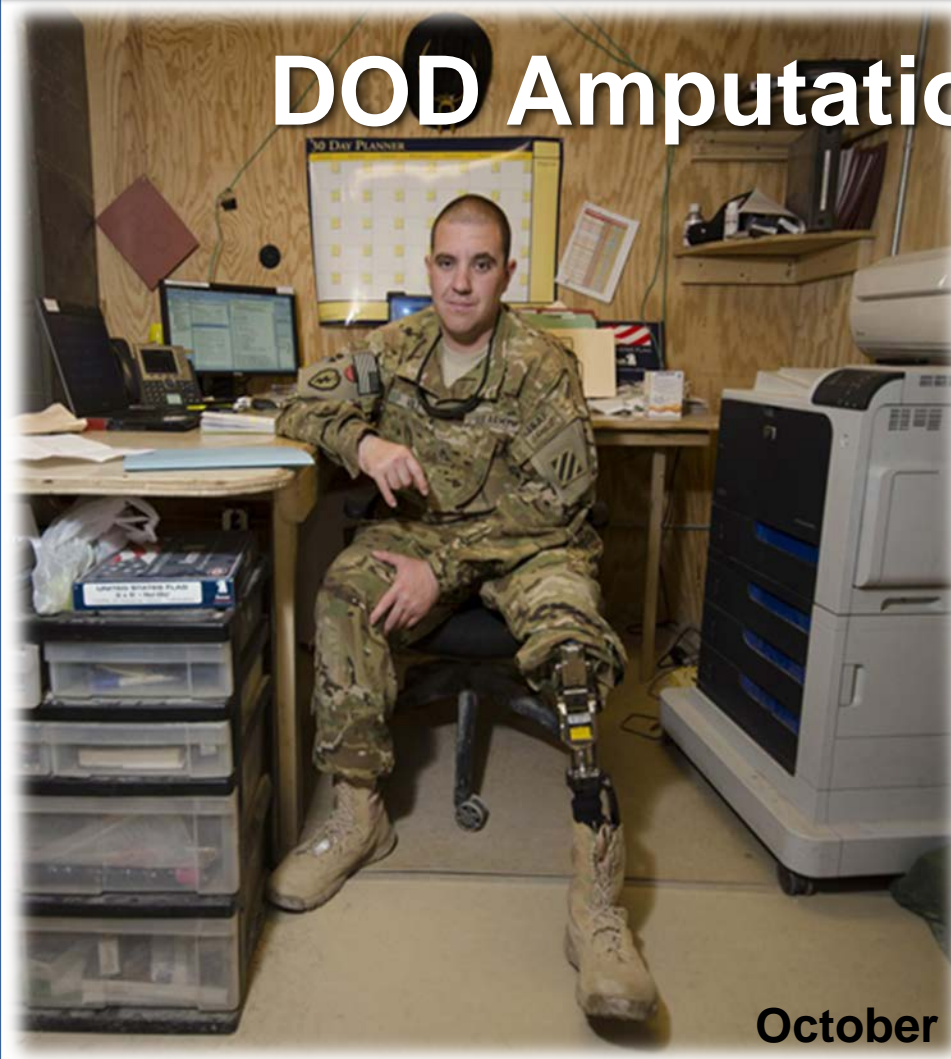
**“Education is not the learning of facts, but the training  
of the mind to think.”**

-Albert Einstein





# DOD Amputation Care Network



October 25, 2017



# Disclosures

The opinions, views and/ or assertions expressed in this presentation are the private views of the authors and do not reflect official policy or views of the U.S. Army, Department of Defense, Department of Veteran Affairs, or the U.S. Government.

**Speaker Name: Andrea Crunkhorn, PT, DPT, CSCS**  
**EACE Chief, Clinical Affairs**

- No relevant financial relationships to disclose.

**Speaker Name: Joseph A. Miller PhD CP**  
**EACE Prosthetics and Orthotics Senior Advisor**

- Royalties from: (Department of Defense)
- Member of: (TaiLor Made, LLC.)

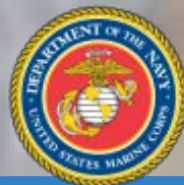
**Speaker Name: Laurie Lutz, PhD**  
**EACE Chief, Training, Education and Simulation**

- No relevant financial relationships to disclose



# Outline

- **Extremity Trauma and Amputation Center of Excellence (EACE)**
- **EACE Clinical Affairs**
  - Clinical Programs
    - The DOD Amputation Care Network
  - Prosthetics and Orthotics
  - Education & Training







# Objectives and Purpose

**By the end of this session, the participant will be able to:**

- Summarize the capabilities and products of the EACE Clinical Affairs team
- Demonstrate an understanding of the DOD Amputation Care Network

## **Purpose:**

- To educate the DOD Amputation Care community on the EACE, EACE Clinical Affairs Programs and the DOD Amputation Care Network.







# Extremity Trauma and Amputation Center of Excellence



# Extremity Trauma and Amputation Center of Excellence (EACE)

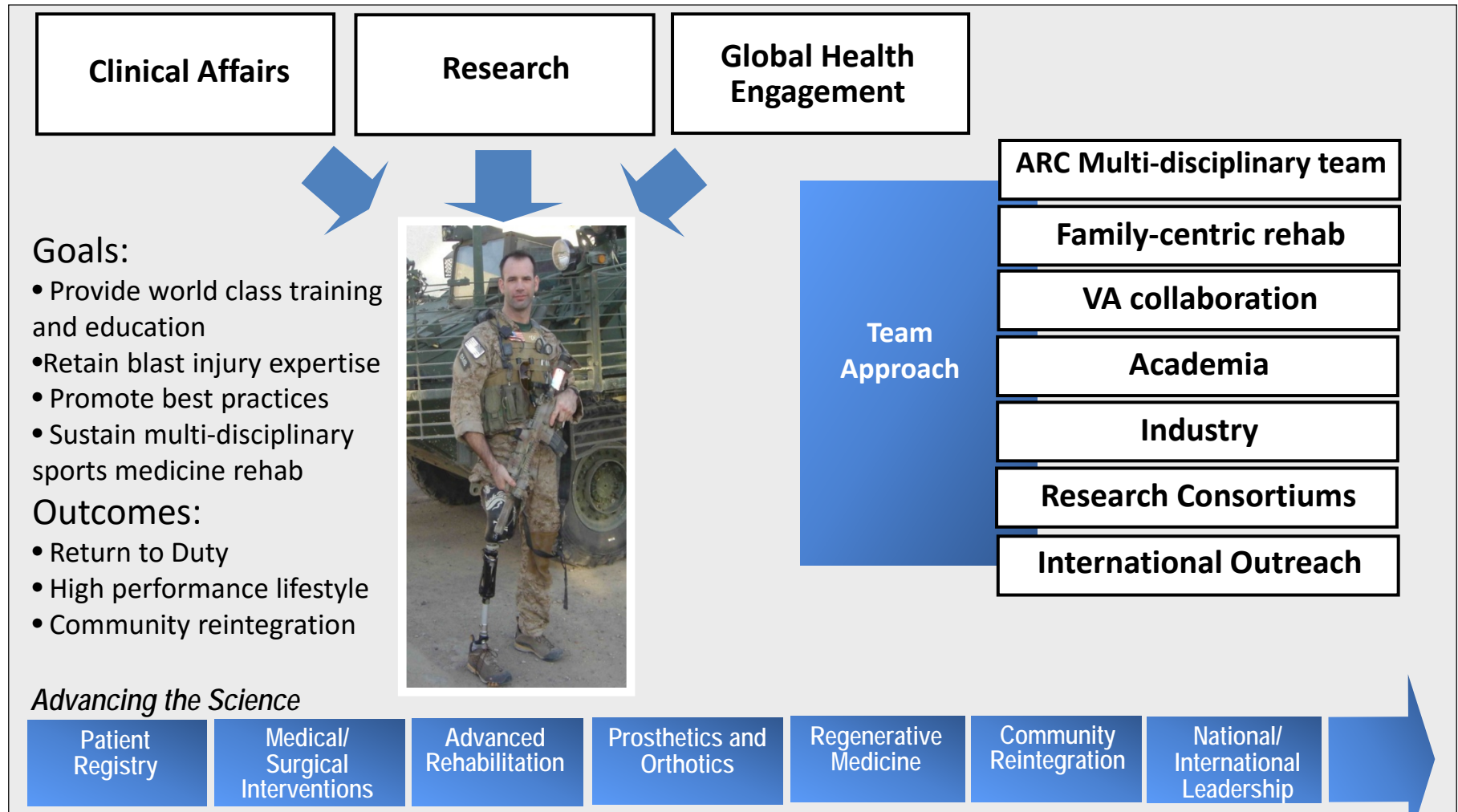


## Congressional Mandate

- PL 110-417 NDAA 2009 SEC. 723
- The Secretary of Defense and the Secretary of Veterans Affairs shall jointly establish a center of excellence in the mitigation, treatment, and rehabilitation of traumatic extremity injuries and amputations.



# EACE Synergy of Effort





# Clinical Affairs





# EACE Clinical Affairs Mission



*The mission of the EACE Clinical Affairs team is to collaborate with federal, civilian and national entities in support of federal amputation care. EACE Clinical Affairs directly supports amputation care across the DOD. To provide this support, EACE Clinical Affairs launched **the DOD Amputation Care Network** concept to codify best practices, develop resources, and promote the patients, caregivers and providers within the DOD amputation care community.*



# Advanced Rehabilitation Centers

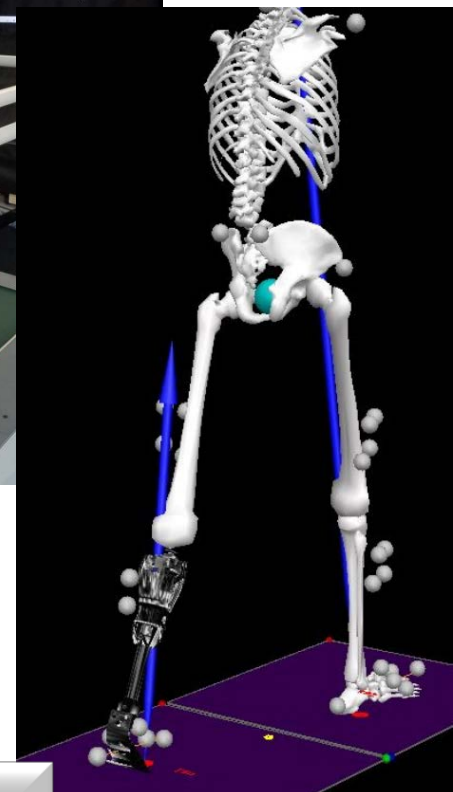


*Known colloquially as "ARCs"*



# ARC Capabilities

- **Integrated, multidisciplinary teams**
  - Surgeons, PM&R, PT, OT, NCM, BH, O&P
  - GS Civilian based rehabilitation and support
- **Efficacious rehabilitation to optimum function**
  - Well developed system of care with contract based expansion capability
  - State of the art prosthetic and orthotic devices
  - Military specific rehabilitation:
    - Firearms Training Simulator
    - Computer Assisted Rehabilitation Environment
    - Adaptive Sports
  - Integrated with 26 ARC embedded EACE researchers



***Ultimate goal is full restoration of normal human function***



# Clinical Programs Key Activities

- Knowledge translation (KT)
  - 2017 VA DOD Lower Limb Amputation CPG
  - KT Workgroup: better managing the link between research and practice
- Best practices
  - Equipment spreadsheet for DME and HEP
  - Amputee Clinic SOP
  - Outcomes metrics
  - Note templates
- Policy and other administrative support
  - Service members to an Advanced Rehabilitation Center (ARC) Health Affairs memorandums
  - TRICARE Operations Manual changes
  - Data development
- Informational briefings to key stakeholders







# Prosthetics and Orthotics



# Roles and Functions

Dr. Miller: Title: Senior Advisor for Clinical Orthotics and Prosthetics

Serves in a Health care consulting and advisory and resources role, to foster Coordination, Education, and Collaboration between DOD and VA in the delivery of Orthotic and Prosthetic Services (OPS) to Service members (SMs) and Veterans.

## ***Core Tenants of Change Management, Leading Change, Building Coalitions and Communication***

### ***Change Management:***

- Implementation of state-of-the art delivery of OPS
- Continually improve business processes

### ***Leading Change:***

- Leverage advanced technologies and emerging innovations
- Ensure clinical quality, safety, and availability for OPS

### ***Building Coalitions:***

- Advance OPS innovation for all stakeholders
- Improve service and program performance.
- Encourages creative thinking and collaboration

### ***Communication:***

- Foster relationships and promote culture of sharing knowledge





# Emerging Amputation Care

- Technology

- LUKE Arm (DEKA)

- 20 arms for distribution to DOD and VA
    - DOD Information sheets for patients and providers at [health.mil/EACE](http://health.mil/EACE) under Clinical Affairs



- Research

- Targeted Muscle Reinnervation (TMR)
  - Implantable Myoelectric Sensors (IMES)

- Transplantation

- <https://www.youtube.com/watch?v=VqUsLMki5Gw>

- Osseointegration

- DOD Information sheets for patients and providers at [health.mil/EACE](http://health.mil/EACE) under Clinical Affairs



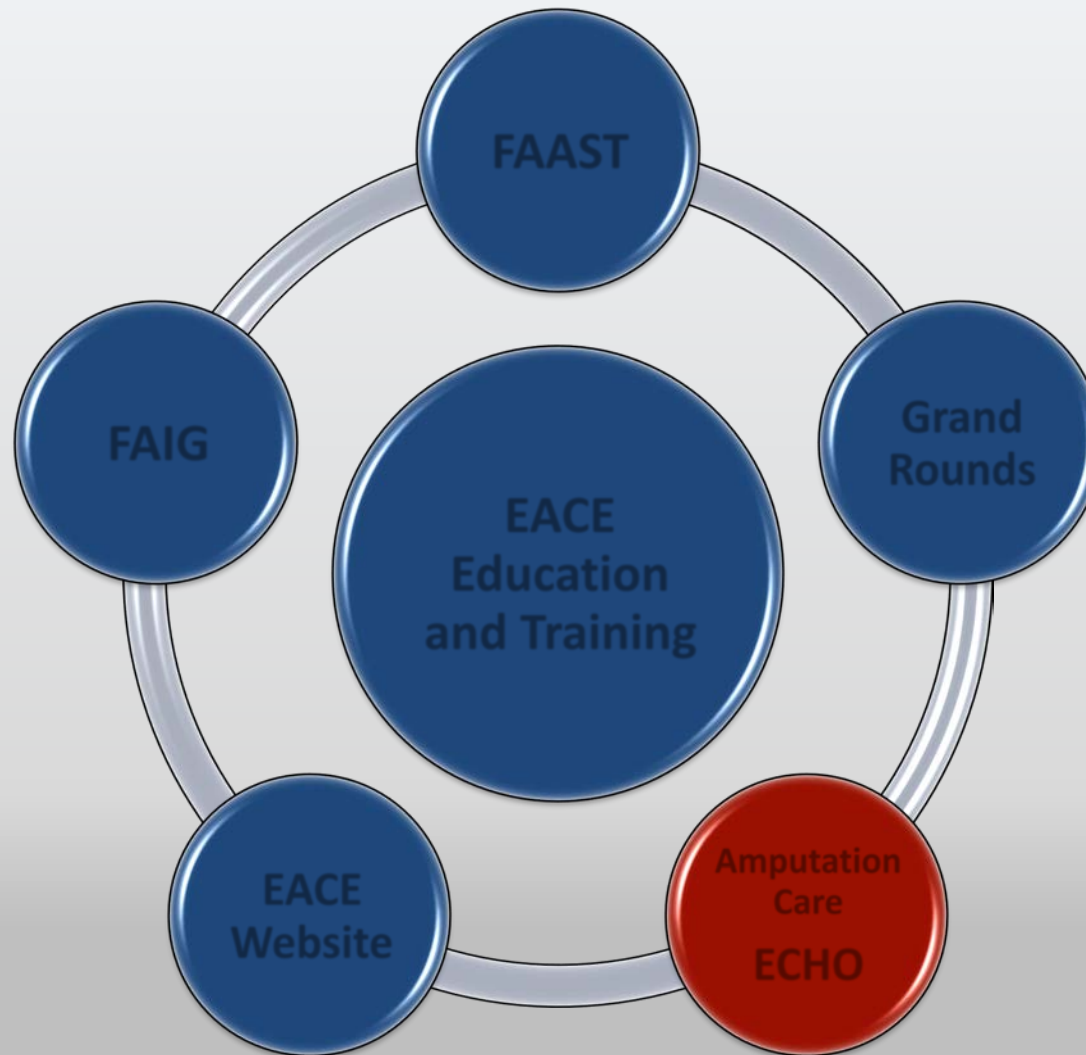


# Educational Initiatives





# Current EACE Education and Training Initiatives





# Current EACE Education and Training Initiatives



## FAAST

### Federal Advanced Amputation Skills Training

- Annual Skills Training for clinicians involved in amputation care

## FAIG

### Federal Amputation Interest Group

- 700+ member list serve

## Grand Rounds

### Virtual Grand Rounds

- Webinar held every other month on topics of interest in amputation care

## EACE Website

### [www.health.mil/EACE](http://www.health.mil/EACE)

- Updated website for resources



# EACE Website

www.health.mil/EACE

**Health.mil**  
The official website of the Military Health System and the Defense Health Agency

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MHS Home > About the Military Health System > Other MHS Organizations > EACE

## Extremity Trauma and Amputation Center of Excellence (EACE)

EACE is the leading advocate for research and treatment of Department of Defense (DoD) and Department of Veterans Affairs (VA) patients with extremity trauma and amputation. Working with TRICARE, the Military Health System, VA and other Centers of Excellence, the EACE will lead efforts to enhance collaboration between the DoD and the VA extremity trauma and amputation care providers and conduct scientific research to minimize the effects of traumatic injuries and improve clinical outcomes.

[Research and Surveillance](#) | [Clinical Affairs](#) | [Global Health Engagement](#) | [Clinical Informatics](#)

### About EACE

[Our Mission](#) | [Our Vision](#) | [Our History](#) | [Our Responsibilities](#)

### Legislation & Authority

The EACE was established through Public Law and developed as a joint effort between the Department of Defense (DoD) and Department of Veterans Affairs (VA).

- Public Law 110-417: Duncan Hunter National Defense Authorization Act for Fiscal Year 2009
- DoD Secretary of Defense Memorandum Delegated

[Contact Us](#) | [Email Us](#)

## Clinical Affairs

We serve to foster the ultimate goal of full restoration of normal human function for our beneficiaries with extremity trauma and amputation. This goal will take decades to achieve. Until then, DoD will strive to achieve:

Individualized, optimized functional outcomes that are driven by patient goals and supported through a whole person transdisciplinary healthcare team approach.

### Patient and Caregiver Information

#### Access to Care

- Process Overview for Amputation Care Referrals
- Osseointegration
- LUKE Arm Patient Information Sheet

Facility	Number
Walter Reed Amputation Care Coordinator	1-301-400-1482 or 1-301-295-8958
Naval Medical Center San Diego Patient Administration	1-619-532-8318
San Antonio Military Medical Center Patient Administration	1-210-916-2733

### Medical Provider Information

#### Best Practices

- Amputation Care Equipment Requirements

### DoD/VA Clinical Practice Guidelines

- Rehabilitation of Lower Limb Amputation
- Management of Upper Extremity Amputation Rehabilitation

### LUKE Arm Clinical Guidance

- Clinical Implementation Plan
- Clinician Information and Screening Considerations
- Patient Information Sheet
- Outcome Assessment and Program Evaluation

Substance Abuse  
Warrior Care







# Questions?







# Case Study Reminders

- Please....
  - Introduce yourself each time you speak
  - No PII in case studies
  - Do not put your phone on hold for any reason during the session.
  - Make sure your connection is muted while not presenting or asking questions.