

# PEER REVIEWED ORTHOPAEDIC RESEARCH PROGRAM



**MISSION:** Fund high-impact and clinically relevant research to advance treatment and rehabilitation from orthopaedic injuries sustained during combat and service-related activities to maximize return to duty

**Congressional Appropriations  
FY09-FY24:  
\$548.5M total**



“I am a 100% disabled Veteran who receives his care from the VA. I have been taking part in these reviews for a few years now and am proud to say I have seen some of the medical advances we discussed being put into use at the end user level. Albeit a small role in the process, it makes my part even more important knowing that what we do really does make a difference. I am so grateful to be a part of the process in military and Veteran healthcare advances.”

*Kent Phyfe,  
American Legion Post 65,  
FY19-FY23 Consumer Peer Reviewer*

## SCOPE OF THE PROBLEM<sup>1</sup>

**77%** of all injury health care visits in the U.S. included care for an MSKI or condition

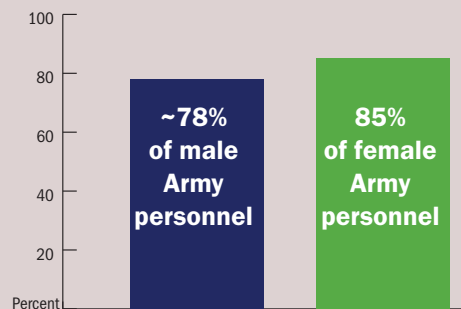
Annual **cost** for treating **musculoskeletal injuries** exceeds **\$176M**

**70%** of musculoskeletal injury patients report lost work days



## RELEVANCE TO MILITARY HEALTH<sup>2</sup>

- Musculoskeletal injuries or conditions account for the most common reason for medical discharge from the armed services
- Percentage of disability separated Army personnel with a musculoskeletal injury or condition listed as a reason for medical discharge:



## PROGRAM PRIORITIES

- Prostheses and orthoses
- Retention strategies
- Composite tissue regeneration
- Limb stabilization and protection
- Volumetric muscle loss
- Osseointegration
- Translation of early findings

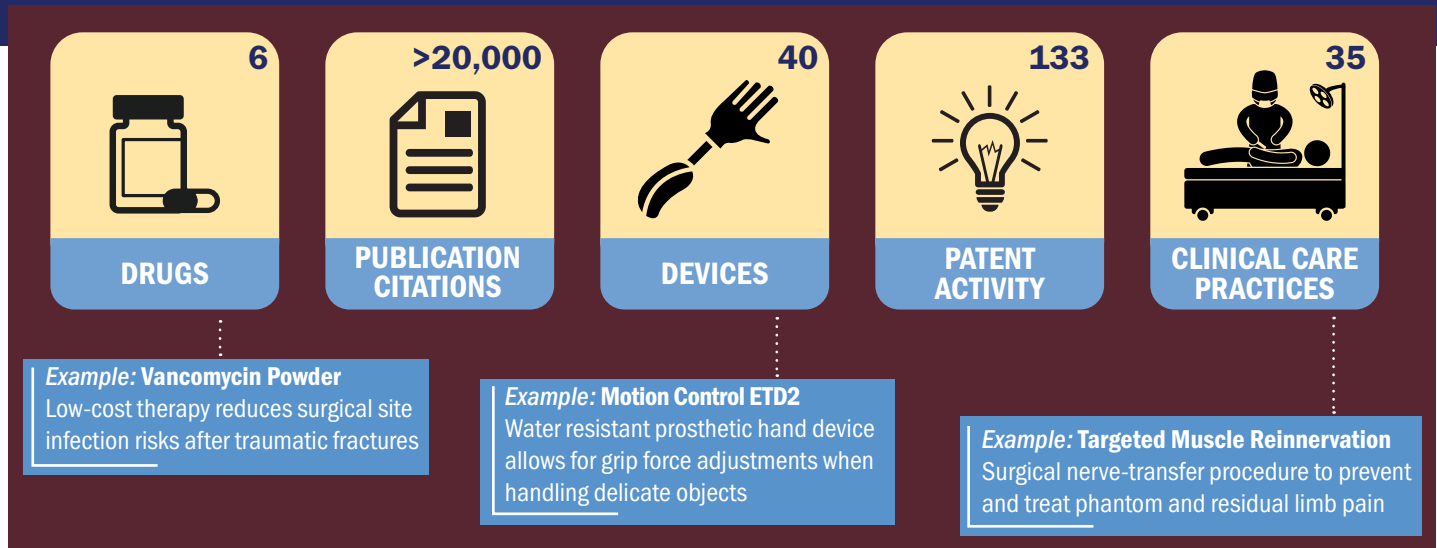
<sup>1</sup> United States Bone and Joint Initiative: The Burden of Musculoskeletal Diseases in the United States, Fourth Edition, 2020 Rosemont, IL.

<sup>2</sup> Piccirillo AL, et al. Disabil Health J, 9, no.2, 2016:324-331.



For more information, visit: <https://cdmrp.health.mil/proprp>

## PROGRAM IMPACT AND OUTCOMES



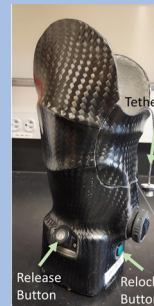
## IMPROVING PATIENT CARE

Collaborative efforts with other DOD partners to advance clinical products include:



### SPRINT® Peripheral Nerve Stimulation System

- Shown to relieve residual limb pain and phantom limb pain in patients with amputations
- Allowed for an 80% decrease in opioid use and sustained pain relief
- Over 11,000 patients treated commercially to date



### TARPIN Prosthetic Socket System

- Easily relieves pressure on the socket
- Allows restoration of residual limb volume
- Adapts to changing limb volume to maintain optimal fit

## ADVANCING WOMEN'S HEALTH IN ORTHOPAEDICS RESEARCH

### New in FY24 – Women's Health Research Award

Focused on orthopaedic issues faced by women serving in physically demanding military settings

- Preservation of function and physical ability
- Quality of life
- Symptom management
- Resilience
- Sex-specific considerations



*The PRORP encourages applicants to any award mechanism to recruit female study participants and identify sex-specific trends or differences in outcomes.*



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