

U.S. ARMY MEDICAL RESEARCH & MATERIEL COMMAND
MG Eric B. Schoomaker,
Commanding

**TATRC and the Military
Amputee Research Program**
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Director, Advanced Technologies

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TATRC in Partnership with the MARP

The Military Amputee Research Program was formed at the Walter Reed Army Medical Center (WRAMC), as part of the Armed Forces Amputee Patient Care Program through an FY04 CSI appropriation. (Rep. Bill Young, R-FL). Funding has continued through FY05 and FY06.

“To develop and conduct innovative research that supports the highest quality of medical, surgical and rehabilitative care of individuals with limb loss.”



Patient Care Team Includes:

- Orthopaedics/Surgery
- Physical Medicine and Rehabilitation
- Regional Anesthesia and Pain Management
- Nursing
- Physical Therapy
- Occupational Therapy
- Prosthetics and Orthotics
- Psychiatric Consultation and Liaison Service
- Social Work
- Infectious Disease Service
- Public Affairs Office
- Dietitians
- Gait Lab
- Ministry and Pastoral Care
- Peer Visitation (ACA)
- VA Counseling
- Vocational Rehabilitation and Employment Services
- VA Research Community
- Red Cross
- Patients
- Patient's Family



Clay Shooting



Archery





Basketball



Golfing



Rowing



Running



Bicycling







TATRC Managed Amputee-Related Research



- **Congressional Appropriation**

TATRC manages amputee and related research projects from next-generation prosthetic technology enhancement, to that focused on prosthetics for third-world, land-mine affected countries; and from retro- and prospective outcome studies, to academic-based O&P programs.

- **SBIR and STTR Research**

TATRC manages several Small Business based initiatives focused on military-specific prosthetics. TATRC is working with the WRMAC Amputee Patient Care Program to develop research topics that fill gaps in current research and treatment regimen.

- **Research Partners**

TATRC has developed a large network of like-minded and engaged organizations and works to maintain synchronization within that network.



VR Projects and the MARP



- 1) **Neuroprosthetics and Solutions For Spinal Cord Dysfunction**

University of Pittsburgh Medical Center.

Will be using simulator as they develop technique for providing proprioception and tactile sensation for users of prosthetics.

- 2) **Neural Controlled Prosthetics Device**

Ardiem, Inc and Case Western Reserve University/Cleveland VA Functional Electrical Stimulation Program.

Will be using a simulator to assist in development and training of neural controlled prosthetic system.



Back in Iraq



Thank you



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