Assistive Technology Provided by VA A Model for Policy & Practice



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Objectives

Participants will understand . . .

- The structure of VHA, Prosthetics & Sensory Aids Service and client eligibility for AT.
- 2. Three aspects of VHA policy and recommended practice surrounding provision of AT to veterans.
- 3. Three areas of unique and innovative AT applications coordinated for VHA beneficiaries.



Veterans Health Administration

- Largest integrated healthcare system in US
 - 155 hospitals
 - 130 nursing homes
 - 45 domiciliaries
 - Nationwide out-patient clinics & programs
- More than 1400 sites of care
- More than 6 million veterans served in 2007



VHA

Geographic Organization

- 23 VISNs (regional networks)
- 23 regional SCI Centers
- Extensive PM&R program
- Blind Rehabilitation Centers
- 4 Polytrauma Rehabilitation Centers (PRC)
 - Minneapolis, Palo Alto, Richmond, Tampa
 - 22 Polytrauma Network Sites



VHA Health Care Services

- Veterans of the armed forces
 - Army, Navy, Air Force, Marine Corps, Coast Guard
 - Commissioned officers of Public Health Service, Environmental Sciences Service Administration or National Oceanic& Atmospheric Administration
- Honorable Discharge
- · Active duty military personnel
 - Services
 - Equipment





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Qualifications for VA Healthcare

www.va.gov/healtheligibility

- Service Connected (SC)
 - Injured in the line of duty
 - Illness or disease linked to military service
- Non Service Connected (NSC)
 - Injury or illness after discharge from service
 - Many VA patients are NSC



VA Comprehensive Services

- Primary Care
- Medical & Surgical
- Spinal Cord Injury
 - Intensive Care
 - Acute Rehabilitation
 - Out-patient
 - Lifetime services
- Rehabilitation
 - PM&R
 - Blind Rehabilitation
 - Speech & AudiologyRecreation Therapy
 - POLYTRAUMA program
- Mental Health
- Geriatrics
- Extended Care
- Out-patient care

VA Comprehensive Services

- Adaptive Equipment
 - All veteran issued equipment and technologies coordinated, provided and managed by . . .



Prosthetics and Sensory Aids Service







War Impacts Change

Advances & Challenges

- Survival of combat injured
- Technology Innovation
- Clinical Applications of Technology & Treatment Approaches

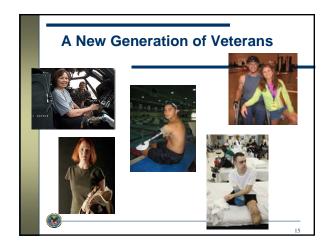


OEF/OIF: Blast Injuries

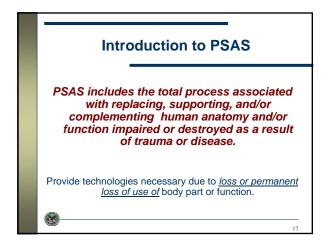


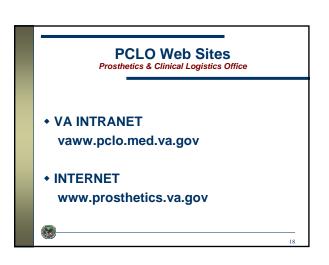
















Comprehensive AT Interventions



- **Wheeled Mobility**
- Custom Seating
- Vehicle Modification
- Home Modification
- Computer Access
- Environmental Control
- Lift system
- Self care equipment
- Home Telehealth

Prosthetics & Clinical Logistics Office (PCLO)

National Office in Washington, DC

- Chief Officer Prosthetics and Clinical Logistics
- Deputy Chief Officer for PSAS
- Prosthetics Clinical Coordinator
- Program Managers
- Program Analysts
- VISN Prosthetics Representatives (23)
- Prosthetics Chiefs



Populations Served by PSAS

Veterans with needs related to . . .

- Amputation
- SCI/D
- Visual Impairment
- Podiatric Care
- Cardio-Pulmonary Dz
- Traumatic Brain Injury
- Peripheral Vascular DZ
- Geriatric Impairments
- Neurological Dysfunction
- Cerebral Vascular DZ

Muscular Dysfunction

Diabetes/Metabolic DZ

Orthopedic Care

- POLYTRAUMA

OEF/OIF and PSAS Uniques

COUNT OF OEF/OIF and PSAS UNIQUE PATIENTS BY FISCAL YEAR									
ALL OEF/OIF to ALL PSAS	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007				
Total OIF/OEF Veterans served by PSAS (all items)	1,437	3,928	4,341	22,910	34,491				
Total All PSAS Patients (all items)	1,230,937	1,383,658	1,462,787	1,519,150	1,606,851				
% of OIF/OEF to All PSAS Patients	0.12%	0.28%	0.30%	1.51%	2.15%				
Total PSAS Expenditures for OlF/OEF	\$478,568	\$2,011,830	\$2,730,873	\$8,576,538	\$14,643,790				
Total PSAS Expenditures	\$803,905,369	\$957,957,953	\$1,032,059,435	\$1,105,560,981	\$1,153,717,230				
% of OIF/OEF Expenditures to All PSAS Expenditures	0.06%	0.21%	0.26%	0.78%	1.27%				

OEF/OIF and PSAS Amputees

ALL OEF/OIF AMPUTEES to ALL PSAS AMPUTEES	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
OIF/OEF Amputees with Major Amputation	4	20	30	138	211
(Includes provision of a new limb or a repair to an existing limb in the AK, BK, and UE categories, patients that fall into multiple categories are only counted once.)					
All Unique Amputees served by PSAS	9,764	8,986	7,142	10,772	11,023
(Includes provision of a new limb or a repair to an existing limb in the AK, BK, and UE categories, patients that fall into multiple categories are counted more than once.)					
PSAS Costs for OIF/OEF Amputees with Major Amputation	\$29,502	\$194,725	\$487,448	\$1,952,466	\$3,017,401
PSAS Costs for All Amputees	\$43,834,954	\$45,251,149	\$42,334,482	\$56,143,487	\$61,472,857
% of Costs for OIF/OEF Amputees to Cost for All PSAS Amputees	0.07%	0.43%	1.15%	3.48%	4.91%



VHA Coverage Policy

VHA Handbook 1173

- Establishes uniform and consistent national policy and procedures for the provision of prosthetic services.
- 17 chapter document designed to address the process for serving the core of VA's disabled veterans

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VHA Handbook 1173

- 1173.1-Eligibility for Prosthetics Services
- 1173.2-Provision PSAS
- 1173.3-Amputee Care
- 1173.4-Automobile Adaptive Equipment
- 1173.5-Blind Rehab
- 1173.6-Wheelchairs
- 1173.7-Audiology and Speech
- 1173.8-Medical Equipment & Supplies

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VHA Handbook 1173 cont. .

- 1173.9-Footwear
- 1173.10-Orthotic Support
- 1173.11-Ocular Prostheses/Restorations
- 1173.12-RX Optics and Low Vision
- 1173.13-Home O2
- 1173.14-HISA
- 1173.15-Clothing Allowance
- 1173.16-Driver Rehabilitation
- 1173.17-Home Telehealth

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Chapter Table of Contents

1173.08 Medical Equipment & Supplies

- Beds
- Lifts
- Stair glides
- Porch lifts
- Porch lifts
- RampsAir conditioners
- ECUs

- Telehealth devices
- Seat lift devices
- Mobility/walking aids
- Rehab/Recreational Equipment
- Other items



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Supporting Documentation

Clinical Practice Recommendations
Prosthetics Clinical Management Program



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Prosthetic Clinical Management Program

Integrated Product Teams (IPT)

- Healthcare Professionals (Chair is Clinician)
- Central Office Representatives
- VISN Prosthetic Representatives
- Local Prosthetics Staff
- NAC Contract Specialist(s)
- Patient Safety Representative
- General Counsel (NAC)
- Veteran Service Officer



PCMP Goals for IPTs

- > Develop specifications of Prosthetic appliances that meet the needs of the majority of patients
- > Promote the development of uniform Prosthetic Clinical Practice Recommendations (CPRs)
- > Support outcome measurements and research
- > Enhance and standardize quality of care
- > Reduce the acquisition cost of Prosthetic appliances



Active PCMP IPTs

- Blood Pressure Monitors TENS
- VFD
- CCTV
 Diabetic Socks
 BIPAP/CPAP

- Pacemakers/ICDs Intra Ocular Lenses Deep Brain Stimulator
- Ortho Hips and Knees
- Wheeled Mobility Cochlear Implants Coronary Stents 11. 12. 13. 14. 15. 16. 17.
- Computers & Software
- Eyeglasses Walkers Hospital Beds

Scooters Aids for the Blind

19.

Home Oxygen

- Orthotic Soft Goods
 Assistive Listening & Alerting Devices
- Speech Devices Optical Aids for the Blind
- Dental Implants
- 24. 25. 26. 27.
- Left Ventricular Assist Device
- Lift Chairs
 Artificial Limbs
 Home Health Telemonitoring
 Scooter Lifts
- Ramps Biological Implants

Clinical Practice Recommendations

- · Available on Internet and VA Intranet
 - www.prosthetics.va.gov/cprs
- 39 CPRs currently published
 - More in progress
- Many apply directly to **Assistive Technologies**



Clinical Practice Recommendations

- Hearing Impairment (6)
- Visual Impairment (5)
- Mobility (13)
- Computer Access (3)
- Speech/Cognition (4)
- Home Telehealth
- Sports & Recreation Equipment





Supporting Documentation

Example

- 1173.7 Audiology & Speech Devices
 - Clinical Practice Recommendations
 - > Alerting Devices for Hearing Impaired
 - > Assistive Listening Devices
 - > Audible Prescription Reading Devices
 - Cochlear Implants
 - > FM Systems & Personal Amplifiers > AAC Systems

 - Cognitive Prosthetic Devices
 - > Tracheostomy Speaking Valves Voice Prostheses

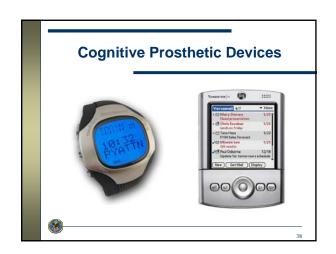


CPR Cognitive Prosthetic Devices

CPD is any electronic based product or system whether acquired as a retail item, modified retail item, or customized one, that is used by an individual to compensate for cognitive-communication impairments that affect his/her ability to participate in activities of daily living (ADLs) and higher level ADLs (IADLs) including work.



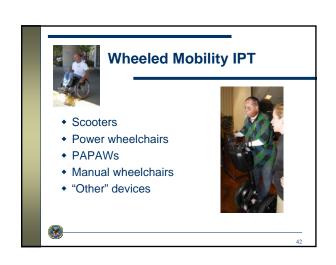












Wheeled Mobility

- VHA Handbook 1173.6
 - Eligibility, procedures, guidelines
 - · Power wheelchairs
 - · Manual wheelchairs
 - Scooters
 - · Sports Wheelchairs
- Clinical Practice Recommendations (CPRs)



Wheeled Mobility CPRs

- Motorized Wheeled Mobility Devices: Scooters, Pushrim-Activated Power-Assist Wheelchairs, Power Wheelchairs and Power Wheelchairs with Enhanced Function"
 - iBOT Addendum
 - iBOT Directive pending
- Manual Wheelchairs
- Standard manual wheelchairs
 - Rehab manual wheelchairs
 - All other technologies



Manual Wheelchair CPR Definitions

- Standard mwc
- · Rehab mwc
- · Ultralightweight mwc



- Heavy Duty
- Extra Heavy Duty
- Transport wheelchair • Tilt-in-space
- Recline function
- Tilt/recline combo
- Standing function

Rehab MWC ~ National Contract

- · Quick release wheels
- Back angle adjustment
- · Back height adjustment
- Camber
- · Wheel position adjustable
 - Horizontal
 - Vertical

Invacare Patriot Plus

* Optimal rear wheel alignment needed

Seating Intervention Polytrauma with Amputation



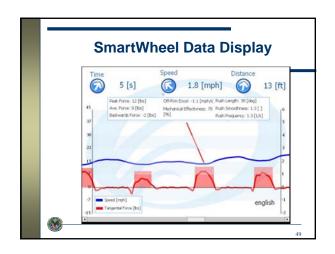


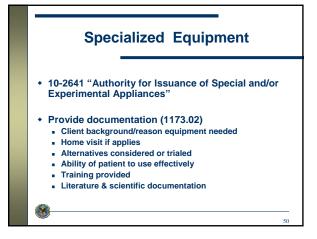
PSAS Support for Clinical Projects

• Program Evaluation System (Quality Improvement)

"The SmartWheel: Clinical **Utility for Manual Wheelchair** Propulsion Education".

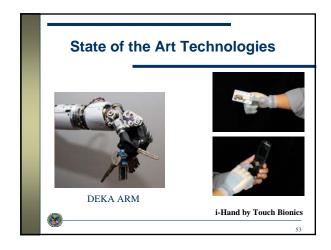


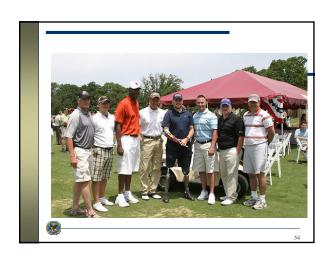


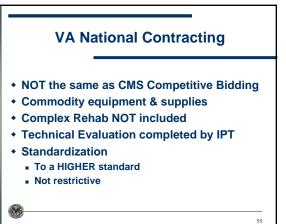


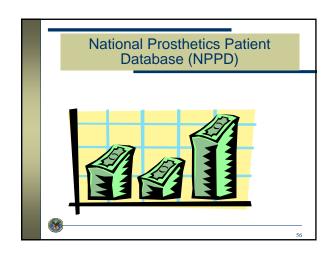












VA NPPD Comprehensive equipment tracking All devices & supplies for unique veterans Allows local, regional, national tracking Individual Products Compliance with contracts Cost Trends Research

