

Vocational Rehabilitation Considerations for Clients with Amputations

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- Demographics
- Prosthetists
- Contribution to your team
- Terminology
- Clinical Considerations

Demographics

■ Etiology:

◆ Complications of Vascular Disease

- ☞ Vast Majority
- ☞ Most age 65 and older

◆ Trauma

- ☞ Working age population

◆ Congenital anomaly

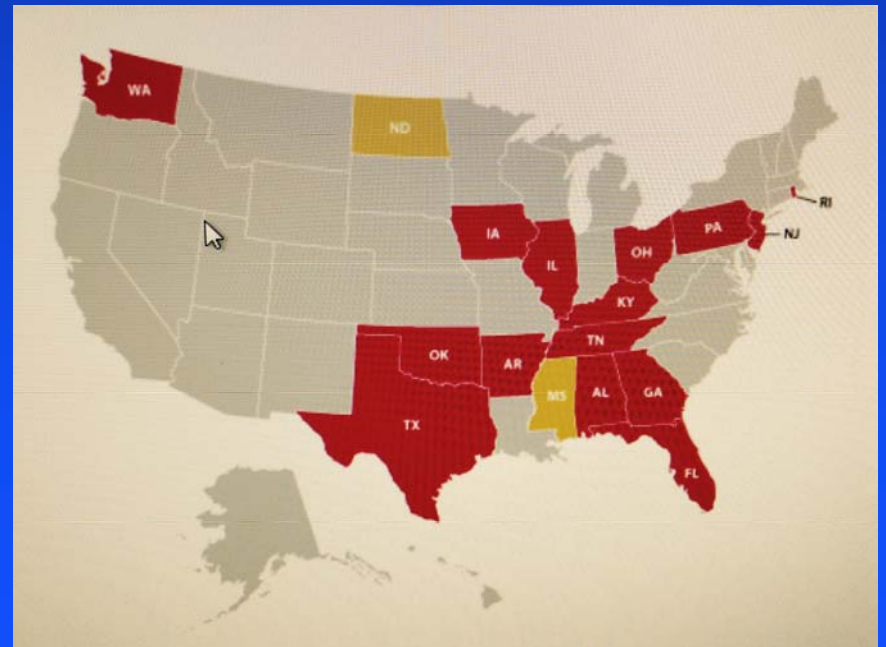
◆ Tumor

Demographics

- How many are we talking about?
 - ◆ 2007 approx 185,000 amputees in the US
 - ◆ Incidence
 - ☞ Vascular disease: 46.2 per 100,000 or 128,000
 - ☞ Trauma: 5.86 per 100,000 or 18,000
 - ☞ Congenital: 25.64 per 100,000 live births
 - 4.1 million in 2005 or approx 1,000 each year
 - ☞ Tumor: .35 per 100,000 or 1,000

At your service

- Prosthetics
 - ◆ Clinical service area
- Prosthesis, Prostheses
 - ◆ Artificial Limb
- Prosthetist
 - ◆ Practitioner
 - ☞ C.P. title
 - ☞ L.P. title



Contribution to your team

- Consultation
- Evaluation



Contribution to your team

- Implementation



Contribution to your team

- Follow up



Lower Limb Prostheses

- Below Knee (BK) prosthesis or Transtibial prosthesis



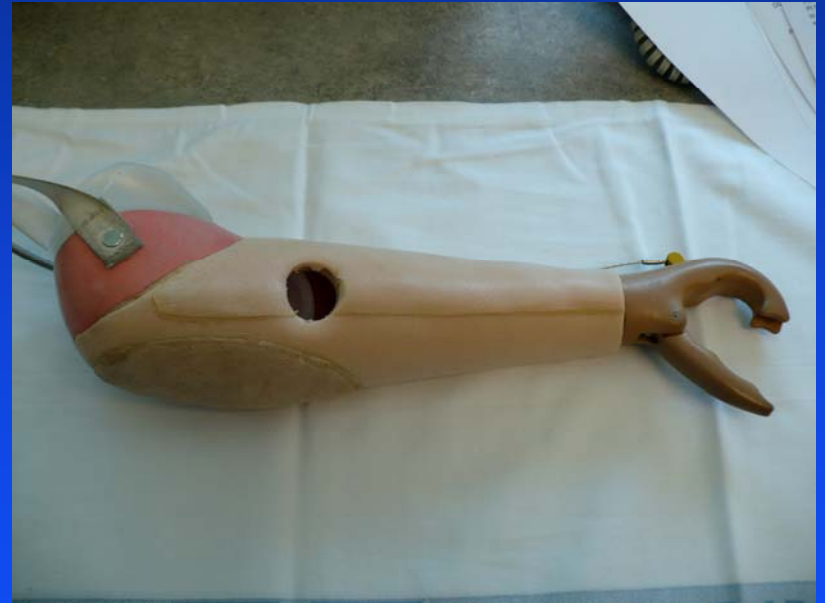
Lower Limb Prostheses

- Above Knee (AK)
prosthesis
or
Transfemoral
prosthesis



Upper Limb Prosthesis

- Below Elbow (BE)
prosthesis
or
Transradial prosthesis



Upper Limb Prosthesis

- Above Elbow (AE)
prosthesis
or
Transhumeral
prosthesis



Clinical Considerations

- Functional Goals
- Lower Limb vs. Upper Limb



Lower Limb Considerations

- Foot/Ankle/Knee function
- Distance walked
- Load/pressure on limb
- Cosmesis
- BK vs. AK
- Unilateral or Bilateral



Upper Limb Considerations

- Cosmesis
- Sensation and function
- Degrees of freedom or BE vs. AE
- Unilateral vs. Bilateral



Complications

■ Pain:

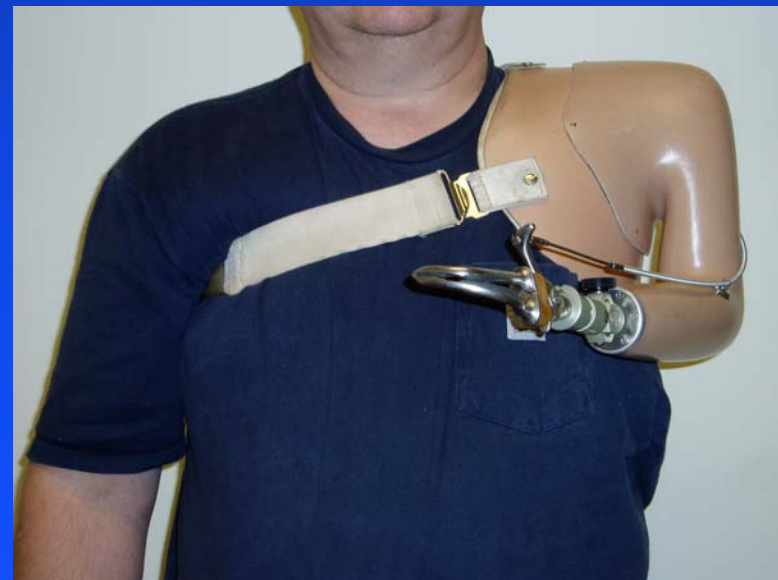
- ◆ Post Operative pain dramatically decreases
- ◆ Phantom limb sensations, slowly diminishes
 - ☞ UL very persistent
- ◆ Phantom limb pain initially present, generally goes away, but not always
- ◆ Brachial plexopathy lifelong debilitation

Complications

- Adjustment to the prosthesis
 - ◆ Healing of the surgery
 - ◆ Volumetric changes cause frustrations
 - ◆ Changes make learning to wear one require patience

Complications

- Adjustment to self image
 - ◆ Looking back vs. looking ahead
 - ◆ Learning a new task vs. doing tasks a different way
 - ◆ Learning curve





Questions?

Thank you

- <http://www.amputee-coalition.org/>
- <http://www.oandp.com>
- <http://www.doh.wa.gov/LicensesPermitsandCertificates/ProfessionsNewReneworUpdate/OrthotistandProsthetist>