

Traumatic Amputation QUERI Workshop

Prosthetic Prescription, Fitting and
Adjustment

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- QUERI Step 1

- Assess Patient need
- Assess comorbidities that affect outcome.
- Determine appropriate time to fit specialized prostheses (Running leg, Swim leg, etc.)
- Determine appropriate design type based on patient acceptance and outcomes

Upper - Myo vs. body powered vs. cosmetic

Interface Design, Suspension, Elbow, Hand, Knee and Foot components. Vertical Shock and Torsion Absorption

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- QUERI Step 1

- Identify and/or create measurement techniques to assess best fit and alignment.
 - Gait Analysis
 - Measure of Oxygen consumption
 - Patient comfort.

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- QUERI Step 2

- Amputee Mobility Predictor
- 6 minute walk test
- Medicare Functional Levels
- Dillingham, TR et al. Use and satisfaction with prosthetic devices among persons with trauma related amputations; a long term study. *Am J Phys Med Rehabil* 2001; 80(8): 563-571

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- QUERI Step 3
 - When should Prosthetist become involved in prosthetic management.
 - Define a qualified provider
 - What are the adherence to accepted methods of assessment to determine fit alignment and optimal component selection.
 - Determine patient satisfaction with prosthesis at regular intervals
 - How much time do current prosthetic wearers utilize their prosthesis relative to component selection and fit of prosthesis.
 - What are barriers to daily use of prosthetic devices.

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- QUERI Step 4,5,6
 - Create a National Strategic Coordinator to facilitate between VARRD and VA Clinical to Provide oversight and guidance to both researchers and clinical personnel.
 - Can Telemedicine Interfacility Management of Patient to be utilized to assess fitting and alignment through gait analysis?
 - What is the multi disciplinary team availability and access?
 - Can intensive Case management impact maintenance and adjustment of prosthesis compared to current levels of usual care?

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- QUERI Step M

- Study new CAD/CAM Technology
- Need for integrated technology between centers
- Use of Telemedicine as a method of checks and balances
- Standardized evaluations
- Develop functional levels to better reflect the attributes of the components vs. the needs of the patient

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● QUERI Step C

- Develop a method of measurement or verify findings of manufacturers
 - Provide manufactures with a method and have them present findings to the DoD and VA.
- Evaluate technology studies to determine efficacy and appropriate use.
- Inclusion of clinical prosthetist to provide oversight for clinical research
- Determine appropriate technology for specified limb lengths and comorbidities.
- Standardize documentation and data collection.
- Use current IT to collect Rx trends and use.