Transfemoral Fitting Predictor

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Introduction

- 2003 - Idea of predictor – Dundee
- SPARG (Scottish Physiotherapy Amputee Research Group)
- Pilot study (10pts)
- 9 point questionnaire – Transfemoral Fitting Predictor (TFP)
- 2008/09 - Validity & reliability research project – 93 patients recruited
- 2011 - Published - Archives of Physical Medicine
Background

- Incidence of transfemoral amputation
- Fitting / abandonment rates
- AMPnoPRO – Bob Gailey
- Borderline patients
Research

- Aims of Study
  - Validity & reliability
  - Video-based method for inter-rater reliability
  - Tele-health
Research

- Methodology
  - Recruitment –
    - 125 approached
    - 93 consented
  - Timing
  - Early walking aids
    PPAM aid / Femurett
Inclusion Criteria

- Unilateral transfemoral amputee
- Able to attend gym
- No cognitive impairment
Research

- Training
  - Training video developed
  - Training pack
    - Guidance notes
    - List of questions
    - Log sheet
    - Information sheet
Research

- Procedure
  - Assessment completed
  - Paper copy
  - Video
  - Videos assessed by panel of experts Oct 2009
1. Move from supine to sitting over side of bed
2. Transfer from bed to wheelchair and back
3. Transfer from wheelchair to a chair with arms
4. Both apply brakes and remove foot-plates on wheelchair while sitting in it
5. Stand on remaining leg for 5 seconds without holding on
6. Get from sitting to standing (+/- early walking aid - EWA)
7. Stand without holding on for 30 seconds (with EWA in situ)
8. Walk to the end of the parallel bars with EWA, turn and walk back (10m)
9. Walk using appropriate walking aids 10m, outwith parallel bars
Results

- 93 of potential 125 consented
- 75 videos

Demographics
- Av age 68
- % male = 54
- PAD +/- Diabetes = 87%
- Deprivation
Results

- Internal consistency

Cronbach’s Alpha = 0.92
Results

- Step-wise discriminant validity

Tasks 7 + 8
>80% positive
Results

- Construct validity

Basic & advanced tasks
Results

- Inter-rater reliability

\[ P > 0.9 \text{ all tasks except Q.2 & 6} > 0.8 \]
Conclusions of Research

- The TFP is a simple, reliable measure of prosthetic potential for transfemoral amputees
- 2 sub-scales
- 2 item scale
- Tele-health potential
TFP in Practice

- Items 5 & 6 reversed – basic & advanced tasks
- Paperwork (4 documents) now on icsp & in use across UK
- Global interest / +ve
- Future developments?
- Adjunct to assessment

We’ve begun using the TFP down here in Manchester (it’s great!)
Marc Hudson
Thanks

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References


Any Questions