

Comparison of functional benefits of self-management training for amputees under virtual world and e-learning conditions

S L Winkler¹, J A Kairalla², R Cooper³, I Gaunard⁴, M Schlesinger⁵, A Krueger⁶, A Ludwig⁷

¹Center of Innovation on Disability and Rehabilitation Research, James A Haley VA Hospital,
Tampa, Florida, USA

²College of Public Health & Health Professions and College of Medicine, University of Florida,
Gainesville, Florida, USA

³Conflict Resolution Studies Department, Nova Southeastern University,
Fort Lauderdale, Florida, USA

⁴Miami VA Medical Center,
Miami, Florida, USA

⁵Occupational Therapy Department, Nova Southeastern University,
Fort Lauderdale, Florida, USA

^{6,7}Virtual Ability, Inc.
Aurora, CO, USA

*sandra.winkler@va.gov, ²johnkair@ufl.edu, ³robicoop@nova.edu, ignacio.gaunard@va.gov,
⁵ms3429@nova.edu, akrueger@virtualability.org, ⁷emecapalini@gmail.com*

¹www.cindrr.research.va.gov, ²www.ufl.edu, ^{3,5}www.nova.edu, ⁴www.miami.va.gov, ^{6,7}www.virtualability.org

ABSTRACT

Amputation is a life-long condition. Throughout their lifespan, amputees will need health, wellness and prosthetic-related information. This project used a randomized design to compare two methods of disseminating an evidence-based self-management intervention: avatar-based virtual world and e-learning environments. Of the 57 subjects randomized, 37 (65%) completed the study. The virtual world group had a significantly higher drop-out rate than the e-learning group. Both groups marginally improved on self-efficacy, perceived social support, pain interference, and functional status outcomes with no significant results found between the groups.

Full papers will be published in the Conference Proceedings and will be freely available to delegates at the conference and online on September 20, 2016.