



---

CONTENTS

---

Scientific/Engineering Articles

---

- 1 The initiation of gait in lower limb amputees: Some related data  
*M. Nissan, PhD*
- 13 Effect on gait using various prosthetic ankle-foot devices  
*Roy W. Wirta, BSME; Randy Mason, CP; Kevin Calvo, CP; Frank L. Golbranson, MD*
- 25 Compressive strength mapping of femoral head trabecular bone  
*A.A. Hofmann, MD; D.J. Hammon, MD; A.U. Daniels, PhD*
- 33 Patient and staff acceptance of robotic technology in occupational therapy: A pilot study  
*Marcel P. Dijkers, PhD; Patti C. deBear, OTR, BS; Robert F. Erlandson, PhD; Kathy Kristy; Deanna M. Geer, OTR; Angelo Nichols*
- 45 Relative performance of single-channel and multichannel tactile aids for speech perception  
*Janet M. Weisenberger, PhD; Susan Broadstone; Linda Kozma-Spytek*
- 57 Audible pedestrian traffic signals (*A Technical Note*)  
*Andrew Y.J. Szeto, PhD; Nan C. Valerio, MPA; Robert E. Novak, PhD*
- 57 Part 1. Prevalence and impact
- 65 Part 2. Analysis of sounds emitted
- 71 Part 3. Detectability
- 

Clinical Reports

---

- 79 Report on the Evaluation of the VA/SEATTLE Ankle  
*VA Rehabilitation Research and Development Service, Rehabilitation R&D Evaluation Unit*
- 91 An Evaluation of Capuchin Monkeys Trained to Help Severely Disabled Individuals  
*VA Rehabilitation Research and Development Service, Rehabilitation R&D Evaluation Unit*
- 

Departments

---

- 97 Abstracts of Recent Literature, by *Joan E. Edelstein, PT and Jerome D. Schein, PhD*
- 105 Book Reviews, by *Jerome D. Schein, PhD*
- 107 Publications of Interest, by *Beryl M. Benjers, PhD*
- 131 Calendar of Events, by *Beryl M. Benjers, PhD*
- 141 JRRD Title and Author Index, Volume 27 (1990)
- 

NOTE

“Clinical Reports” is a new section which will be presented periodically in issues of the *Journal of Rehabilitation Research and Development*. It will include the results of clinical evaluations of research and development devices or techniques sponsored by the VA Rehabilitation Research and Development Service.