
CONTENTS

- ii Guidelines for Contributors
- iii Masthead Page
- iv Editor's Notes
- vii Guest Editorial: Upper Extremity Amputation and Prosthetics
René F. Baumgartner, MD
- viii Clinical Relevance for the Veteran:
Summaries of Scientific/Technical Articles

Scientific/Technical Articles

- 357 Cineplasty as a control input for externally powered prosthetic components
Richard F. ff. Weir, PhD; Craig W. Heckathorne, MS; Dudley S. Childress, PhD
- 365 Mechanical performance of inflatable inserts used in limb prosthetics
Joan E. Sanders, PhD and Damon V. Cassisi, BSME
- 375 The effect of body weight and age on frequency of repairs in lower-limb prostheses
*Naseer H.J. Haboubi, MBChB, MRCP; Michael Heelis, BSc; Ruth Woodruff, DIPT, MCSP;
Imad Al-Khawaja, PhD, MRCP*
- 379 Predictive factors for successful early prosthetic ambulation among
lower-limb amputees
*Michael C. Munin, MD; Maria Carolina Espejo-De Guzman, MD;
Michael L. Boninger, MD; Shirley G. Fitzgerald, PhD; Louis E. Penrod, MD;
Jaspaal Singh, MD*
- 385 A neuromuscular platform to extract electrophysiological signals from
lesioned nerves: a technical note
Michael R. Wells, PhD; Urmi Vaidya, PhD; John L. Ricci, PhD; Carl Christie, BS
- 391 Physiological response to the ambulatory performance of hand-rim
and arm-crank propulsion systems
Goutam Mukherjee, MSc, Dpt and Amalendu Samanta, MSc, PhD
- 401 Shoulder imaging abnormalities in individuals with paraplegia
*Michael L. Boninger, MD; Jeffrey D. Towers, MD; Rory A. Cooper, PhD;
Brad E. Dicianno; Michael C. Munin, MD*
- 409 Analysis of vibrations induced during wheelchair propulsion
*David P. VanSickle, PhD; Rory A. Cooper, PhD; Michael L. Boninger, MD;
Carmen P. DiGiovine, MS*
- 423 Reliability of cardiorespiratory measurements during wheelchair ergometry
Randall E. Keyser, PhD; Mary M. Rodgers, PhD; Elizabeth R. Rasch, MSPT

- 431** The virtual retinal display as a low-vision computer interface: a pilot study
Conor P. Kleweno, BS; Eric J. Seibel, PhD; Erik S. Viirre, MD, PhD; John P. Kelly, PhD; Thomas A. Furness III, PhD

Clinical Report

- 443** A comparison of the recognition distance of several types of pedestrian signals with low-vision pedestrians
Ron Van Houten, PhD; Bruce Blasch, PhD; J.E. Louis Malenfant, PhD

Special Report

- 449** Development of uniform terminology and procedures to describe wheelchair cushion characteristics
Stephen Sprigle, PhD, PT; Larry Press; Kim Davis, MS, PT