
CONTENTS

- vii** Editorial: Margaret J. Giannini, MD
Ernest M. Burgess, MD
-

Scientific/Engineering Articles

- 1** Analysis of a below-knee patellar tendon-bearing prosthesis: A finite element study
Peter Quesada, PhD and Harry B. Skinner, MD, PhD
- 13** Ankle-foot prosthesis with articulated human bone endoskeleton: Force-deflection and fatigue study
Dr. S.G. Kabra, MS (Anat), MS (Gen Surg) and Dr. Ramji Narayanan, MS (Gen Surg)
- 23** Equipment and methods for laboratory testing of ankle-foot prostheses as exemplified by the Jaipur foot
Dr. S.G. Kabra, MS (Anat), MS (Gen Surg) and Dr. Ramji Narayanan, MS (Gen Surg)
- 35** Factors influencing rehabilitation of arteriosclerotic lower limb amputees
G.J.A. Siriwardena, MB, BS, FRCS and P.V. Bertrand, BSc, PhD, FSS, FIS
- 45** Dynamic characteristics of a sport wheelchair (A Technical Note)
Kenneth D. Coutts, PhD
- 51** A technique for the determination of center of gravity and rolling resistance for tilt-seat wheelchairs (A Review Article)
Edward D. Lemaire, MSc; Mario Lamontagne, PhD; Hugh W. Barclay, CO; Thomas John, MD; Guy Martel, MHK, CPOC
- 59** Experiments in the application of isolated-word recognition to secondary driving controls for the disabled
Eric C. Quintin, MS; Shivram K. Halan, BS; Kadry A. Abdelhamied, PhD
- 67** Development and testing of artificial low-frequency speech codes
Charlotte M. Reed, PhD; Matthew H. Power, MS; Nathaniel I. Durlach, MA; Louis D. Braida, PhD; Kristin K. Foss, MS; Jean A. Reid, BS; Susan R. Dubois, MS
-

Departments

- 83** Abstracts of Recent Literature
Joan E. Edelstein, PT
- 90** Publications of Interest
Beryl M. Benjers, PhD
- 114** Calendar of Events
Beryl M. Benjers, PhD
-

GUIDELINES FOR SUBMITTING PROGRESS REPORTS IN 1991

DEADLINE

Reports for publication in the 1991 *Progress Reports* must be received in this office by **September 20, 1991**. Because of space limitations, only the first 600 received will be published, so authors are urged to submit their reports early.

PUBLICATION

The *Rehabilitation R&D Progress Reports* is published in the first quarter of each year as an annual supplemental of the *Journal of Rehabilitation Research and Development*. Progress Reports are also available electronically through the VA Rehabilitation Database on CompuServe.

SUMMARY OF REQUIREMENTS

GENERAL INFORMATION

Each report must include the following information:

1. Full names, titles, and addresses of the principal investigator and coauthors and location of the research activity.
2. Telephone number of the principal investigator.
3. Full name and address of the sponsoring organization(s), as well as the specific funded program. Include name of organization's director, if applicable.
4. Complete and accurate references (i.e., exact title, author(s), publication title, volume, issue number, date, and page numbers). Incomplete references will be deleted.
5. A list of key words (helpful for the Subject Index).
6. A suggested category listing (based on categories included in this book).

TEXT

Text of reports may not exceed 600 words. The *Progress Reports* are published solely as statements of investigators on the current status of their work, and not as short research papers. Reports must be typed or printed, double-spaced format, with clearly marked page numbers. A copy of the same material on diskette (nonreturnable) must be included. We can use files saved in pure ASCII format under PC-DOS or MS-DOS, either 5 1/4-inch or 3 1/2-inch diskettes. Or you may send it electronically through CompuServe. Our CompuServe Mail ID is 76703,4267.

1. ORGANIZATION: The text should contain a brief summary of the ***Purpose, Progress, Methodology, Results (Preliminary or Final)*** over the past year, and may contain a brief statement of ***Future Plans/Implications***, if appropriate. ***Recent Publications Resulting from This Research*** may include citations from the previous two years (i.e., 1990 and 1991), as well as information on ***Patents*** and ***Awards***. References must be published or accepted for publication only. Because of space limitations we will print only up to a total of 8 references for any one Progress Report.
2. ILLUSTRATIONS: Do not include figures, tables, or photographs.
3. EDITORIAL CHANGES: Since galley proofs are not sent on *Progress Reports* submissions, any editorial changes made to meet publication requirements will be final, and not subject to author review.

CORRESPONDENCE

Address contributions to:

Managing Editor
Rehabilitation R&D Progress Reports
Office of Technology Transfer (110A1)
VA Prosthetics R&D Center
103 South Gay Street
Baltimore, MD 21202 USA

Telephone: (301)962-2497 / (301)962-2777 or FTS 922-2497 / FTS 922-2777