CONTENTS

vii Editorial
Carlo J. De Luca, PhD

ix Guest Editorial
Gunnar B.J. Andersson, MD, PhD

xii Introduction
Serge H. Roy, ScD, PT and Carlo J. De Luca, PhD

xiii Clinical Relevance for the Veteran: Summaries of Scientific/Technical Articles

Scientific/Technical Articles

371 Low back pain assessment training of industry-based physicians
Kenneth J. Harwood, MA, PT; Margareta Nordin, MedDrSci; Rudi Heibert, BA;
Sherri Weiser, PhD; Paul M. Brisson, MD; Mary Louise Skovron, DrPH; Stuart Lewis, MD

383 Decreasing disability in chronic back pain through aggressive spine rehabilitation
James Rainville, MD; Jerry Sobel, MD; Carol Hartigan, MD; George Monlux, MD;
Jonathan Bean, MD

394 Use of chiropractic manipulation in lumbar rehabilitation
John J. Triano, MA, DC; Marion McGregor, DC, MSc; Dennis R. Skogsbergh, DC

405 Classification of back muscle impairment based on the surface electromyographic signal
Serge H. Roy, ScD; PT; Carlo J. De Luca, PhD; Mark Emley, MS; Lars I.E. Oddsson, DrMedSc;
Rudi J.C. Buijs, MS; Jo-Anne Levis, MS, PT; David S. Newcombe, MD; Joseph F. Jabre, MD

415 Development of new protocols and analysis procedures for the assessment of LBP by
surface EMG techniques
Lars I.E. Oddsson, DrMedSc; Johan E. Giphart, MSc; Rudi J.C. Buijs, MS;
Serge H. Roy, ScD, PT; Howard P. Taylor, MD; Carlo J. De Luca, PhD

427 The use of surface EMG power spectral analysis in the evaluation of back muscle function
Anne F. Mannion, PhD; Beth Connolly, MSc; Kherrin Wood, MSc; Patricia Dolan, PhD

440 Endurance of trunk muscles in persons with chronic low back pain: Assessment, performance
training
Mary T. Moffroid, PhD, PT

448 Distribution of tissue loads in the low back during a variety of daily and rehabilitation tasks
Stuart M. McGill, PhD

459 Modeling of functional trunk muscle performance: Interfacing ergonomics and spine rehabilita-
tion in response to the ADA
Kinda A. Khalaf, MS; Mohamad Parnianpour, PhD; Patrick J. Sparto, MS; Sheldon R. Simon, MD

470 Electrokinesiologic measurement of trunk sagittal mobility and lumbar erector spinae
muscle activity
Steven L. Wolf, PhD, FAPTA; Ana Bobinac-Georgievski, MD, DSc; Vlado Braus, BSc;
Marijan Montani, MD
<table>
<thead>
<tr>
<th>Page</th>
<th>Department</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>479</td>
<td>Abstracts of Recent Literature</td>
<td>Joan E. Edelstein, MA, PT</td>
</tr>
<tr>
<td>497</td>
<td>Book Reviews</td>
<td>H. Richard Lehneis, PhD, CPO, Jerome D. Schein, PhD</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>498</td>
<td>New Books</td>
<td></td>
</tr>
<tr>
<td>501</td>
<td>Publications of Interest</td>
<td></td>
</tr>
<tr>
<td>517</td>
<td>Calendar of Events</td>
<td></td>
</tr>
</tbody>
</table>