

SECTION ONE: Clinical Decision Making and Examination

- Chapter 1: **Clinical Decision Making** 1
Susan B. O'Sullivan
- Chapter 2: **Examination of Vital Signs** 28
Thomas J. Schmitz
- Chapter 3: **Examination of Sensory Function** 73
Kevin K. Chui • Sheng-Che Yen • Thomas J. Schmitz
- Chapter 4: **Musculoskeletal Examination** 109
Evangelos Pappas • D. Joyce White
- Chapter 5: **Examination of Motor Function: Motor Control and Motor Learning** 135
Susan B. O'Sullivan • Richard J. McKibben • Leslie G. Portney
- Chapter 6: **Examination of Coordination and Balance** 188
Thomas J. Schmitz • Susan B. O'Sullivan
- Chapter 7: **Examination of Gait** 228
Judith M. Burnfield • Guilherme M. Cesar • Cynthia C. Norkin
- Chapter 8: **Examination of Function** 294
David A. Scalzitti
- Chapter 9: **Examination and Modification of the Environment** 316
Thomas J. Schmitz

SECTION TWO: Intervention Strategies for Rehabilitation

- Chapter 10: **Strategies to Improve Motor Function** 361
Susan B. O'Sullivan
- Chapter 11: **Strategies to Improve Locomotor Function** 400
George D. Fulk • Lee Dibble • Thomas J. Schmitz
- Chapter 12: **Chronic Pulmonary Dysfunction** 434
Julie Ann Starr
- Chapter 13: **Heart Disease** 469
Konrad J. Dias
- Chapter 14: **Vascular, Lymphatic, and Integumentary Disorders** 524
Deborah Graffis Kelly
- Chapter 15: **Stroke** 592
Judith E. Deutsch • Susan B. O'Sullivan
- Chapter 16: **Multiple Sclerosis** 662
Tara L. McIsaac • Nora E. Fritz • Susan B. O'Sullivan
- Chapter 17: **Amyotrophic Lateral Sclerosis** 712
Vanina Dal Bello-Haas
- Chapter 18: **Parkinson's Disease** 760
Edward W. Bezkor • Tara L. McIsaac • Susan B. O'Sullivan
- Chapter 19: **Traumatic Brain Injury** 817
George D. Fulk • Coby Nirider
- Chapter 20: **Traumatic Spinal Cord Injury** 855
George D. Fulk • Mark Bowden • Andrea L. Behrman

- Chapter 21: **Vestibular Disorders** 918
Michael C. Schubert
- Chapter 22: **Amputation** 951
Margery A. Lockard • Bella J. May
- Chapter 23: **Arthritis** 994
Maura Daly Iversen • Marie D. Westby
- Chapter 24: **Burns** 1050
R. Scott Ward • Ingrid Parry • Reginald L. Richard
- Chapter 25: **Chronic Pain** 1081
Leslie N. Russek
- Chapter 26: **Psychosocial Issues in Physical Rehabilitation** 1134
Pat Precin
- Chapter 27: **Cognitive and Perceptual Dysfunction** 1175
Carolyn A. Unsworth
- Chapter 28: **Neurogenic Disorders of Speech and Language** 1224
Martha Taylor Sarno • Jessica Galgano
- Chapter 29: **Promoting Health and Wellness** 1251
Beth Black • Janet R. Bezner

SECTION THREE: **Orthotics, Prosthetics, and Seating
and Wheeled Mobility**

- Chapter 30: **Orthotics** 1287
Joan E. Edelstein • Christopher Kevin Wong
- Chapter 31: **Prosthetics** 1325
Christopher Kevin Wong • Joan E. Edelstein
- Chapter 32: **Seating and Wheeled Mobility** 1370
Laura J. Cohen • Faith Saftler Savage
- Index** 1435

Fourteen video case studies are available online at *DavisPlus*. Each includes a narrative presentation and three accompanying video segments (examination, intervention, and outcomes) together with guiding questions designed to challenge clinical decision-making skills. Student feedback is provided via suggested answers to the guiding questions posted in a separate online file.

CASE STUDY 1: Critical Care Patient in the Intensive Care Unit

(applicable to Chapters 1, 2, 12, and 13)

James Tompkins, PT, DPT

Department of Physical Medicine and Rehabilitation

Mayo Clinic Hospital

Phoenix, Arizona

Joseph L. Verheijde, PhD, MBA, PT

Department of Physical Medicine and Rehabilitation

Mayo Clinic Hospital

Scottsdale, Arizona

Bhavesb M. Patel, MD, FRCPC

Departments of Critical Care and Respiratory Care

Mayo Clinic Hospital

Phoenix, Arizona

CASE STUDY 2: Patient With Burns

(applicable to Chapter 24)

Jill Quarles, PT, MS • Sophie Manning, PT, BSc

Michigan Medicine

Ann Arbor, Michigan

CASE STUDY 3: Patient With a Below Knee Amputation

(applicable to Chapter 22)

Kim Stover Rosso, PT, MSPT • Laura Pink-Baker, PT, DPT

Michigan Medicine

Ann Arbor, Michigan

CASE STUDY 4: Patient With Spinal Cord Injury

(applicable to Chapter 20)

Alex Eubank, PT, DPT

Dodd Hall Rehabilitation Services

Ohio State University Wexner Medical Center

Columbus Ohio

CASE STUDY 5: Patient With Spinal Cord Injury

(applicable to Chapter 20)

Sally Taylor, PT

Shirley Ryan AbilityLab

(Formerly the Rehabilitation Institute of Chicago)

Chicago, Illinois

Assistant Professor

Department of Physical Therapy and Human Movement Sciences

Northwestern University, Feinberg School of Medicine

Chicago, Illinois

CASE STUDY 6: Patient With Parkinson's disease

(applicable to Chapter 18)

Edward W. Bezkor, PT, DPT, OCS, MTC, CAFS

Assistant Professor

University of St. Augustine for Health Sciences

Doctor of Physical Therapy Program

San Marcos, California

Michelle Farella-Accurso, PT, DPT

New York College of Osteopathic Medicine of New York Institute of Technology

Adele Smithers Parkinson's Disease Research and Treatment Center

Department of Physical Therapy

Old Westbury, New York

CASE STUDY 7: Patient With Traumatic Brain Injury
and Shoulder Amputation

(applicable to Chapters 19 and 22)

Faye Bronstein PT, DPT, NCS

NYU Langone Health

Rusk Rehabilitation

New York, New York

CASE STUDY 8: Patient With Traumatic Brain Injury

(applicable to Chapter 19)

Victoria Stevens, PT, NCS • Kate Rough, PT, DPT, NCS

University of Washington Medical Center

Rehabilitation Medicine

Seattle, Washington

CASE STUDY 9: Patient With Right Hemorrhagic CVA

(applicable to Chapter 15)

Alicia Esposito O'Hara, PT, DPT, NCS

NYU Langone Health

Rusk Rehabilitation

New York, New York

CASE STUDY 10: Patient With Left Ischemic CVA

(applicable to Chapter 15)

Greg Hartley, PT, DPT, GCS • Gemma Longfellow, PT, MSPT, GCS • Karen J. Lagares, PT, DPT, GCS
St. Catherine's Rehabilitation Hospital
North Miami, Florida

CASE STUDY 11: Patient With Right Thalamic Ischemic Infarct and Left Lateral Medullary Ischemia

(applicable to Chapter 15)

Hendrika Lietz, PT, DPT, NCS
University of Michigan Hospital
Ann Arbor, Michigan

CASE STUDY 12: Patient With Right Basal Ganglia Intraparenchymal Hemorrhage

(applicable to Chapter 15)

Patricia Laverty, PT, DPT • Maria Julia Vila, PT, MPT
New York University Langone Medical Center
Rusk Institute of Rehabilitation Medicine
New York, New York

CASE STUDY 13: Patient With Vestibular Disorder

(applicable to Chapter 21)

Bryan Hujsak, PT, DPT, NCS
The New York Eye and Ear Infirmary
Vestibular Rehabilitation
New York, New York

CASE STUDY 14: Patient With Multiple Sclerosis

(applicable to Chapter 16)

Maria Rundell, PT, DPT, NCS, MSCS
Outpatient Lead Therapist
HealthSouth Rehabilitation Hospital of Colorado Springs
Colorado Springs, Colorado