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PT 567.02: Neurological Rehabilitation - Adult Neurological Rehabilitation

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PT-567

PRINCIPLES OF ADULT NEUROLOGICAL REHABILITATION

I. PT- Principles of Adult Neurological Rehabilitation

II. Credit: 3 Credits

III. Instructors: Chuck Leonard, Ph.D., PT

IV. Clock Hours: 3 hours per week for 5 weeks
Class meets M, W, F 10AM-Noon

V. Course Description: Various medical and societal aspects of adult-onset stroke are presented in addition to physical therapy and medical rehabilitation procedures. Pathophysiology, prognosis, spasticity (mechanisms and treatment), gait assessment, motor control issues, functional outcome measures, and various treatment approaches are discussed.

VI. Required Reading:
Faculty Packet

Neurological Rehabilitation by Darcy Ann Umphred

VII. Schedule and Course Content

Week 1

Reading Assignment: Umphred pp. 622; 630; 637-639

Impact of Stroke on the Health Care System
Stroke Risk Factors

Pathophysiology of CVA

Prognosis
Time course of recovery from acute to chronic stages.
Treatment implications.

Spasticity

Processes of Recovery
Pediatric vs. Adult

Principles of the Neurological Examination

Chart Documentation

Week 2

Reading Assignment: pp.630-637; 639-644

Gait Analysis of the Hemiplegic Patient

Shoulder/Hand Syndrome Following CVA
Reflex Sympathetic Dystrophy

Patient Presentation #1 (Students are expected to dress in a professional manner for these presentations)

Week 3

Reading Assignment: pp. 644(tx)-654

Neurodevelopmental Treatment (NDT; Bobath)
Theory/Rationale/Philosophy
Treatment Techniques for Lower Extremity
Upper Extremity

LAB- NDT (Spasticity Reduction, Balance, Coordination,
Transfers, Trunk, UE, LE.

Patient Presentation #2

Week 4

Reading Assignment: pp.773-775; 776; 779-783; 787

Rood Treatment Approaches
Theory/Rationale/Treatment Techniques

Brunnstrom
Theory/Rationale/Treatment Techniques

LAB- Brunnstrom

Week 5

Reading Assignment: pp.654-659(Equip)

Motor Control/Learning Theory

Measurement of Functional Outcomes

Miscellaneous "Stuff"
Biofeedback; Inhibitive Casting; Medications to
decrease spasticity; PNF; Dorsal Root Rhizotomies;
Weird Science/Continuing Educ. in Neuro Rehab.

Hospital Neurological Ward Rounds or

Patient Presentation or
Physician (Neurologist or Psychiatrist) Lecture

Finals Week

Cumulative Written Final

VIII. Objectives: See attached

IX. Course Requirements and Methods of Evaluation:

Cumulative written final: 80%

Laboratory observation: 10%

Classroom participation: 10%