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PT 567.02: Neurological Rehabilitation - Adult Neurological Rehabilitation

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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
VIII. Objectives: See attached

IX. Course Requirements and Methods of Evaluation:
   Cumulative written final: 80%
   Laboratory observation: 10%
   Classroom participation: 10%