University of Montana

ScholarWorks at University of Montana

Syllabi Course Syllabi

9-2002

PT 568.01: Principles of Adult Neurological Rehabilitation

Charles Leonard *University of Montana - Missoula*, charles.leonard@umontana.edu

Follow this and additional works at: https://scholarworks.umt.edu/syllabi

Let us know how access to this document benefits you.

Recommended Citation

Leonard, Charles, "PT 568.01: Principles of Adult Neurological Rehabilitation" (2002). *Syllabi*. 2731. https://scholarworks.umt.edu/syllabi/2731

This Syllabus is brought to you for free and open access by the Course Syllabi at ScholarWorks at University of Montana. It has been accepted for inclusion in Syllabi by an authorized administrator of ScholarWorks at University of Montana. For more information, please contact scholarworks@mso.umt.edu.

PT-567/568

PRINCIPLES OF ADULT NEUROLOGICAL REHABILITATION

- I. PT- Principles of Adult Neurological Rehabilitation
- II. Credit: 5 Credits
- III. Instructor: Chuck Leonard, Ph.D., PT
- IV. Clock Hours: 5-6 hours per week for 5 weeks
 Class meets M:8-10,1-2
 W:10-12; F: 10-12
- 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

Introduction to the Neurological Examination by M. Nolan The Neuroscience of Human Movement by CT Leonard

VII. Schedule and Course Content (subject to change)

Week 1

Impact of Stroke on the Health Care System Stroke Risk Factors

Pathophysiology of CVA

Neuroscientific Principles Related to CVA

Principles of Neurological Examination

Definitional Terms

Spasticity

Processes of Recovery
Pediatric vs. Adult

Principles of the Neurological Examination

Chart Documentation

Week 2

Gait Analysis of the Hemiplegic Patient

Shoulder/Hand Syndrome Following CVA Reflex Sympathetic Dystrophy

Prognosis

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

Week 3

Measurement of Functional Outcomes

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

Patient Presentation #2

Week 4

Motor Control/Learning Theory and Techniques

Constraint Induced Therapies Treadmill Training Computer/Robot Assisted Therapies

Patient Presentation #3

Week 5

Guide to PT Practice (Adult CVA)

Miscellaneous Interventions

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 Physiatrist) Lecture

Final Examination

VIII. Objectives: See attached

IX. Course Requirements and Methods of Evaluation: Cumulative written final: 80%

Cumulative written final: 80% Laboratory observation: 10% Classroom participation: 10%