

Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Allied Medical Sciences
First Semester 2007

Course Information	
Course Title	PT in Neurology (3cr)
Course Number	PT 346
Prerequisites	MED 326
Course Website	----
Instructor	Hossein Ahmad Karimi
Office Location	M5-20
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Office Hours	
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Teaching Assistant	
Course Description	
<p>A lecture and case study course on the basic principles of neurological assessment and the application of techniques used in the Physical Therapy management of clients with neurological conditions. This course introduces a framework for clinical reasoning in the assessment and treatment of individuals with neurological and neurosurgical conditions</p> <p>Content includes neurological rehabilitation and discharge planning issues, assessment and treatment of patients, evaluation of treatment effectiveness. Clinical decision-making, treatment planning, record keeping, time management and team participation will be encouraged. The theoretical framework for various treatment methods will be discussed with emphasis on measurement of outcome, both qualitative and quantitative. Justification of treatment selection based on available evidence and efficacy of treatments implemented will be evaluated. Team participation, timely and effective communication (both verbal and written) with patients, families and other health professionals will be encouraged</p>	

Text Book	
Title	Neurological Rehabilitation
Author(s)	Umphred
Publisher	Mosby inc.
Year	2007
Edition	5th edition
Book Website	
References	O' Sullivan and Schmitz; Physical Rehabilitation. 5 th Edition, Davis Company

Assessment Policy		
Assessment Type	Expected Due Date	Weight
Firs exam		25%

Second exam		25%
Assignments		10%
Attendance	student's responsibility	Negative points for absence
Final		40%

Course Objectives	Weights
This course introduces a framework for clinical reasoning in the assessment and treatment of individuals with neurological and neurosurgical conditions At the conclusion of this course the student should be able to: Discuss the evaluation process and perform the appropriate physical therapy assessment and documentation of various neurological conditions.	
Develop clinical reasoning in the assessment of neurological patients including the confirmation of likely contributing factors to activity limitations and participation restrictions	
Establish prioritized patient-centered problem lists and treatment goals	
Modify the physical therapy examination procedures according to the patient's age and response.	
Compose appropriate short and long-term goals for patients with various neurological disorder based on findings from physical therapy evaluation and data collected from other sources taking into consideration the available resources.	
Discuss the major responsibilities of the physical therapist in planning effective treatments for neurological conditions in light of the best evidence for practice.	
Compose a comprehensive physical therapy treatment program for patients with various neurological disorders.	
Demonstrate the ability to critically appraise the literature in the area of neurological physical therapy and select the appropriate treatment in light of the information and evidence gathered.	

Teaching & Learning Methods
Lecture and case study/presentation

Learning Outcomes: Upon successful completion of this course, students will be able to		
Related Objective(s)		Reference(s)
Discuss the evaluation process and perform the appropriate physical therapy assessment and documentation of various neurological conditions.		
Develop clinical reasoning in the assessment of neurological patients including the confirmation of likely contributing factors to activity limitations and participation restrictions		

Establish prioritized patient-centered problem lists and treatment goals		
Modify the physical therapy examination procedures according to the patient's age and response.		
Compose appropriate short and long-term goals for patients with various neurological disorder based on findings from physical therapy evaluation and data collected from other sources taking into consideration the available resources.		
Extrapolate the potential secondary complications associated with different neurological conditions.		
Discuss the major responsibilities of the physical therapist in planning effective treatments for neurological conditions in light of the best evidence for practice.		
Demonstrate the ability to critically appraise the literature in the area of neurological physical therapy and select the appropriate treatment in light of the information and evidence gathered.		

Useful Resources
1)

Course Content		
Week	Topics	Chapter in Text (handouts)
1	Neurological evaluation	
2,3	Principles of "Clinical Decision Making" and "Evidence Based Physiotherapy"	
4,5	Spinal cord injuries	
6 & 7	Stroke and Traumatic brain injury	
8	Multiple sclerosis	
9	Parkinson's disease	
10	Neuromuscular disorders	
11	Guillian-Barre Syndrome	
12,13	Cerebellar disorders	
14,15	Peripheral nerve injuries	

