**Name of the module:** therapeuticissues in the treatment of patients with central nerve system lesion: part 1

**Number of module** 473-2-0023

BGU Credits: 2

ECTS credits: number of credits in the European Credit Transfer System

Academic year: 1

Semester: second

Hours of instruction: the hours in which the module takes place

Location of instruction: the location of lectures (or any other kind of instruction) in the module

Language of instruction: Hebrew, reading in english

Cycle: the degree level in which the module is being taught.

Position: obligatory.

Field of Education: neurological clinical theoretical course

Responsible department: physiotherapy.

General prerequisites BPT

Grading scale: presence-obligatory. 20% presentation. 80% case study

Course Description: in this module we will learn different therapeutic approaches and advanced clinical reasoning to the evaluation and treatment of patients with central nerve system lesion based on the clinical and up to date literature knowledge.

Aims of the module: to teach measurements and evaluation tools in rehabilitation, different therapeutic approaches and clinical reasoning to the evaluation and treatment of adults with central nerve system lesion (CVA, TBI, PD, MS etc) regarding the clinical and scientific knowledge and regarding the technological innovations in the rehabilitation world..

 Objectives of the module: to develop broad clinical reasoning to the evaluation and treatment of patients with central nerve system lesion while integrating the clinical and scientific knowledge.

Learning outcomes of the module: On successful completion of the course, the student should be able to:

1. To evaluate patient with CNS lesion regarding the unique aspect of each situation.
2. To choose the adequate measurement tools to evaluate impairment, activity, participation.
3. To integrate known principles from motor learning, motor control, plasticity of the nerve system and the muscle in the evaluation and treatment of person with neurological condition.
4. To understand and distinct between clinical significance difference and statistical significance difference in the rehabilitation measurement tools.

Attendance regulation: 80% attendance is obligatory. Active participation.

Teaching arrangement and method of instruction: frontal classes, case studies, student presentations.

Lecturer ronnit Feingold polak

Contact details: rpkf@zahav.net.il

Office phone:

Email:

Office hours: days and hours when the lecturer and\or assistant are available at the office for the students.

Module evaluation: at the end of the semester the students will evaluate the module, in order to draw conclusions, and for the university's internal needs

Confirmation: the syllabus was confirmed by the faculty academic advisory committee to be valid on XXX (academic year)

Last update: 22.4.15

Assessment:

how the students will be assessed in the module

1. Presentation-20%
2. Case study-80%

 100%

Work and assignments: this module will be of frontal classes, case studies and discussions. The students required to be active participants. In the last class the students will assign a 10-15 minutes presentation in groups of 2-3 students. The subject will be discussed in the class. At the end of the module the students will hand in a case study.

Module content

1. Rehabilitation in Israel
2. The evaluation of patient with CNS lesion
3. Measurements tools in rehabilitation
4. Goal attainment scale in rehabilitation
5. Upper limb: movement analysis and rehabilitation
6. Locomotion
7. Positioning and seating of neuromuscular patients
8. Physical exercise principles in neuromuscular lesions

Reading list:

1. Stucki G. & Sieza A.: The International Classification of Functioning, Disability and Health (ICF) in Physical and Rehabilitation Medicine. *Eur J Phys Rehabil Med* 2008; 44: 299-302.

2 .Bohannon RW, Andrews WA and Glenney SS: Minimal Clinically Important Difference for Comfortable Speed as a Measure of Gait Performance in Patients Undergoing Inpatient Rehabilitation after Stroke*.**J. Phys. Ther. Sci.* 2013; 25: 1223–1225.

3. Massad F, Levin O., Meyns P, Drijkoningen D., Swinnen SP and Duysens J.: Arm Sway Holds Sway: Locomotor-like Modulation of Leg Reflexes when Arms Swing in Alternation. *Neuroscience* 2014; 258: 34–46.

4. Krasny-Pacini A., Hiebel J. Pauly F., Godon S. and Chevignard M. Goal Attainment Scaling in rehabilitation: A literature-based update. *Annals of Physical and Rehabilitation Medicine* 2013; 56: 212–230

Time required for individual work: in addition to attendance in class, the students are expected to do their assignment and individual work:

Reading assignments will be given during the semester

**\* All learning material will be available to the students on the module's website (high-learn)/ library/ electronic documents available to BGU students.**