**Title and Focus of Activity**: Neurologic Intervention Analysis

*Intervention, Integrated Clinical Experience (ICE)*

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**Course Information:** Physical Therapy Management of the Adult with Neurological Conditions I; 3 units; Fall 2nd year of a 3 yr DPT program; The students have had all the basic sciences (Neural Sciences, Movement Sciences, K & B 1 & 2) and beginning clinical coursework (Therapeutic Exercise, Procedures). This is the first course in a 2 semester series on PT Management of the Adult with Neuro Conditions

**Learning Activity Description:**

At a local rehabilitation facility, the student will observe a PT intervention with a patient. The student assignment is then to completely deconstruct the interaction they observed, and then propose an additional activity intervention which is grounded in the evidence and which addresses 3 of the patient’s problems. The list of assignment components addresses many different aspects of intervention design. The components of this assignment include to:

* use the ICF model to identify the problems (e.g. body structure/function impairments, activity and participation limitations) for a particular patient,
* analyze the observed PT intervention with specific focus on how the intervention addressed the ICF limitations through principles of exercise prescription and task/activity modification
* categorize the variables that affect practice and learning which the PT employed in the intervention,
* describe the modifications made by the PT to enhance patient success
* identify any priority problems not addressed by the therapist
* design an intervention citing evidence and provide PICO and search query worksheet

At least one faculty member observes the patient-therapist interactions as well. However, given that the students are paired or in a trio, more often than not the same patient is used for the assignment. The student description of the intervention enables the instructor to see the level of detail with which the student analyzed the intervention.

Student Instructions

**Intervention Analysis:** You are required to **electronically submit** a **report** via Courseworks on **one** of the **patient observations due** on **xxx**. The **following information is to be included** in the report:

* Patient initials, gender and unit location, therapist name and pertinent case information (e.g. HPI, contributory PMH) (Please observe HIPAA requirements) (10pts)
* Based on your observation of the patient and your interaction with the therapist and patient, use the ICF model to identify problems and categorize them as impairments, activity and participation limitations (10pts)
* What specific activities/exercises did the patient perform to address his/her problems? Don’t forget to include dosage. (20pts)
* What variables affecting practice and learning did the therapist manipulate (e.g. practice amt, practice schedule, transfer of training etc…)? (15pts)
* What modifications did the therapist do to enhance success? (10pts)
* Were there any other problems not addressed by the therapist which you feel should be addressed? (10pts)
* Provide **ONE new ACTIVITY intervention** which would address at least **three** of the patient’s **problems**. Please **cite evidence source** and **provide PICO and Search Query Worksheet** for suggested intervention (emphasis on RCT’s/SRs). (25pts)

Time for student to complete the activity:

On 2 consecutive Thursday mornings, half the class at a time visits Kessler Rehabilitation Center. Students are placed in groups of 2 or 3 and rotate through 2 areas observing and interacting with patients with neurological disorders and the physical therapist assigned to that patient (e.g. inpatient stroke, inpatient brain injury, outpatient neuro areas). They have 2 assignments (Intervention Analysis & W/C Rx) associated with this ICE which should be completed at home. The intervention analysis assignment will take approximately 3 hrs to complete.

Readings/other preparatory materials: NA

Learning Objectives:

1. Identify the ICF limitations which impact an individual’s ability to function.
2. Design a comprehensive physical therapy intervention that is evidence-based for the setting.
3. Analyze the intervention from the motor learning perspective (variables that affect practice and learning) and the exercise prescription perspective (dosage and type)

Methods of evaluation of student learning:

Points are assigned next to each component identified above.