NDT A286: CLINICAL EXPERIENCE 3

Item	Value
Curriculum Committee Approval Date	10/05/2022
Top Code	121200 - Electro-Neurodiagnostic Technology
Units	4.5 Total Units
Hours	256 Total Hours (Lab Hours 256)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Open Entry/Open Exit	No
Grading Policy	Pass/No Pass (B)

Course Description

Continued clinical experience in EEG at an affiliated health care facility under the direct supervision of an EEG technologist or physician. This clinical will build on skills attained in NDT A117. There will also be opportunities to observe and possibly perform evoked potential studies. PREREQUISITE: NDT A117. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Perform routine NDT procedures, with emphasis on the routine EEG examination under general supervision according to ACNS guidelines with an accurate electrode application time of 25 minutes or less, and recognize normal and abnormal EEG activity while demonstrating professional health care attitudes.

Course Objectives

- I PERFORMANCE OBJECTIVES: The student will be able to:
- I. 1. *Apply electrodes accurately to within 5mm of homologous regions, within 25 minutes, and perform testing in an acceptable time for lab schedule.
- I. 2. *+Calibrate and adjust instrument, 100% accurately. Includes proper calibrations at end of each test and recognition of inaccuracies with suggestions for solutions.
- I. 3. Learn the lab protocol including routine montages by the second week of clinical.
- I. 4. *+Take valid patient data.
- I. 5. *+Correctly use the EEG machine settings to obtain optimal recordings.
- I. 6. *+Identify and monitor artifacts with 100% accuracy.
- I. 7. *+Identify normal EEG activity with 100% accuracy.
- I. 8. *+Properly document clinical and instrument data on EEG's.
- I. 9. *+Write an accurate description of EEG's performed with 80% accuracy.
- I. 10. *+Recognize abnormal events such as slow waves, spikes, etc. 85%
- II BEHAVIORAL OBJECTIVES: The student will be able to:
- II. 1. +Follow directions from Physicians Staff, and complete assignments in a professional manner.
- II. 2. +Demonstrate a willingness to adhere to the lab policies and regulations.
- II. 3. +Adhere to an appropriate dress code, be well groomed, and properly identified.
- II. 4. +Be responsible for notifying department when late or absent.
- II. 5. +Be responsible for arriving on time and staying the scheduled appropriate time.
- II. 6. +*Demonstrate a positive attitude toward the clinical experience, such as taking initiative and asking for more duties.
- II. 7. *+Seek instructions and use criticism to improve performance.
- II. 8. +Act professionally toward the patient and maintain safe and ethical conduct. Establish good patient rapport and obtain maximal patient cooperation.
- II. 9. +Maintain work area, clean up after self, and prepare necessary supplies.

Lecture Content

This course is a clinical experience. No lecture component.

Lab Content

This course consists of continued practical hands-on experience in a clinical setting. Advancing skills in the following areas: Clinical Training Clinical Site Infection control methods/isolation procedures Proper cleaning/disinfection and disposal of equipment NDT instrumentation Performance Objectives EEG Electrode application Acquiring patient history Equipment setting controls/calibration Clinical montages Identification of artifacts Identification of normal and variant waveforms Appropriate documentation during EEG procedure Technical impressions Behavioral Objectives Effective time management Effective Communication with patients and family Exhibiting professional attitude towards preceptors/patients/other healthcare workers. Performance and Behavioral Evaluation Observation and evaluation of student performance/self-reflection mid-clinical Observation and final student evaluation in performing routine NDT exams. Other neurodiagnostic procedures observed EEG testing on adult and pediatric patients in the clinical setting (site dependent) EP observation and testing (site dependent) NDT equipment troubleshooting End Evaluation Demonstration of EEG techniques/skills Determine strengths and weaknesses to improve upon for next clinical rotation. Topics covered will vary depending on clinical assignment, but should include (if possible) performing NDT studies on: Pediatric, Adult, and/or intensive care patients.

Method(s) of Instruction

- Lab (04)
- Field Experience (90)
- Non-Directed Clinical (NDR)

Instructional Techniques

Direct supervised clinical practice at affiliated clinical site. Hands-on practice testing patients. Procedure demonstration, return skill demonstration with continual feedback of performance.

Reading Assignments

Review ACNS Guidelines for performing routine NDT exams. Review class notes and lectures (0.5 hrs/wk)

Writing Assignments

Required to make written reports of patients clinical history, test results, testing parameters, and required record keeping as per lab protocol. All reporting will be reviewed by the technical staff, and feedback will be given to the student. This is generally completed during class hours.

Out-of-class Assignments

Complete daily documentation of procedure logs and attendance logs if not completed during clinical hours (0.5 hrs/wk)

Demonstration of Critical Thinking

Modification of electrode application due to head injury Montage modifications Equipment troubleshooting Modification of approach with individual patients

Required Writing, Problem Solving, Skills Demonstration

Reports: patient clinical history, test results, testing parameters, required record keeping as per lab protocol. Mid-Clinical Self Evaluation Daily entries into Procedure log Electrode application and performing routine EEG studies according to ACNS guidelines.

Eligible Disciplines

Diagnostic medical technology-diagnostic medical sonography, neurodiagnosti...: Any bachelor's degree and two years of professional experience, or any associate degree and six years of professional experience.

Manuals Resources

1. Banoczi, W. and Liang, T.. Neurodiagnostic Technology Program. Clinical Course Student Handbook, Orange Coast College , 07-20-2020

Other Resources

1. As required by prerequisites. Materials will be provided by clinical coordinator, or available in the college bookstore.