NDT A117: CLINICAL EXPERIENCE 2

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
Grading Policy	Pass/No Pass (B)

Course Description

Continued clinical experience in Electroencephalography at a selected Neurodiagnostic Lab in an affiliated health care facility, under the direct supervision of a physician and/or EEG technologist. This clinical will build on skills attained in NDT A116, and will include performance of EEG testing on clinical patients, medical record keeping, and clinical history taking. PREREQUISITE: NDT A115 and NDT A116. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Perform a routine EEG with increased efficiency and confidence according to ACNS guidelines with an accurate electrode application time of 30 minutes or less, recognizing normal and several abnormal EEG patterns while demonstrating professional healthcare attitudes.

Course Objectives

- I Objectives related to student behavior:
- I. 1. *Demonstrate a willingness to adhere to the individual lab policies and regulations.
- I. 2. +Adhere to appropriate dress code, being neat, well groomed, appropriate for clinical and adhering to Orange Coast College catalog policy for student conduct.
- I. 3. +Assume responsibility for notifying the department supervisor when unable to attend or when expected to be late.
- I. 4. Make up any time missed, due to absence or tardiness.
- I. 5. +Assume responsibility for arriving to clinical on time and must stay allotted time per the lab schedule.
- I. 6. *+Conduct self in an appropriate ethical manner as a health care professional. This includes maintaining patient confidentiality and safety at all times.
- I. 7. *Seek instruction and use criticism to improve performance.
- I. 8. *+Demonstrate a positive attitude to the clinical experience.
- I. 9. *+Relate to patients in a positive manner to encourage patient cooperation and enhance attitude. This includes explaining all procedures and expectations to the patient.
- I. 10. *+Maintain work area in an orderly manner. Obtains and replaces supplies as needed and keeps work areas neat and clean.
- II Objectives related to performance:
- II. 1. *+Calibrate the machine within 100% accuracy. Able to make all necessary adjustments to the instrument for accurate recordings. Includes the proper use of cal voltage related to sensitivities and calibrating all settings used during a test.
- II. 2. Learn the lab montages within the first week.
- II. 3. *Take valid patient data.
- II. 4. *Apply electrodes accurately within 30 minutes, and get the patients test performed in an acceptable time as per the lab schedule.
- II. 5. *+Use appropriate machine settings to provide optimal recording as necessary.
- II. 6. *+Identify and monitor artifacts with 85% accuracy.
- II. 7. *+Identify normal EEG activity with 95% accuracy.
- II. 8. *+Recognize abnormal events such as slow waves, spike /or sharp activity, and other common discharges with 60% accuracy.
- II. 9. *+Accurately document all work, including calibrations, instrument settings, clinical findings, modifications to recording, and appropriate patient information.
- II. 10. +Write a description of each EEG performed. Each should be reviewed by a technologists, and be at least 70% accurate.

Lecture Content

This course is a clinical experience with no lecture component.

Lab Content

This course consists of continued practical hands-on experience in the clinical setting to increase skill levels performing NDT studies relating to: Clinical Training Clinical Site OP versus IP Lab Protocols Infection control methods Isolation procedures Proper Cleaning/Disinfection techniques and disposal of equipment NDT instrumentation Performance Objectives EEG electrode application Acquiring patient history Equipment setting controls/accurate calibration Clinical montages Identification of artifacts Identification of normal and variant waveforms Identification of abnormal waveforms Appropriate documentation during EEG procedure Technical impressions Behavioral Objectives Dress Code 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 a routine EEG exam. End Evaluation Demonstration of EEG techniques/skills. Identify strengths and weaknesses to improve upon for next clinical rotation. Topics covered will vary depending on clinical assignment, but should include (if possible) performing EEGs on: Pediatric, Adult, and/or intensive care patients.

Method(s) of Instruction

- Lab (04)
- Field Experience (90)

Instructional Techniques

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

Reading Assignments

Review ACNS Guidelines for performing a routine EEG exam. Review class notes and lectures (0.5 hrs/week)

Writing Assignments

Reports: written reports of patients clinical history, test results, testing parameters, and required record keeping as per lab protocol. Daily log entries and technical impressions reported in procedure logs. Mid-Clinical Self Evaluation. This is generally completed during course hours.

Out-of-class Assignments

Complete daily reports/documentation in procedure logs and attendance logs if not completed during clinical hours (0.5 hrs/week)

Demonstration of Critical Thinking

Modified electrode application Montage modification Equipment troubleshooting

Required Writing, Problem Solving, Skills Demonstration

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

Eligible Disciplines

Diagnostic medical technology-diagnostic medical sonography, neurodiagnosti...: Any bachelors 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 , 08-01-2022

Other Resources

1. As required by prerequisites, and course materials available in the bookstore or provided by coordinator.