Course Prefix and Number: PSG 220  Credits: 2

Course Title: Pediatric Polysomnography

Course Description: Introduces pediatric sleep technology, including indications for pediatric polysomnogram, scoring the polysomnogram, and event recognition. Includes a review of electrode placement, the extended EEG montage for optimal pediatric polysomnography, childhood parasomnias, consequences of disturbed sleep, CPAP titration, and infant sleep studies. Prerequisites: PSG 101, PSG 190, PSG 110, PSG 103, PSG 164, and PSG 205. Co-requisites: PSG 298 - Sleep Technology Theory and Practice Integration, PSG 207, and PSG 296. Lecture 2 hours per week.

General Course Purpose: Required for the Sleep Technology for Polysomnography Certificate, the purpose of this course is to provide the fundamental skills and theory required of students prior to entering a pediatric clinical environment

Course Prerequisites and Co-requisites:
Prerequisites: PSG 101, PSG 190, PSG 110, PSG 103, PSG 164, and PSG 205
Co-requisites: PSG 298 - Sleep Technology Theory and Practice Integration, PSG 207, and PSG 296

Course Objectives:
Upon completing the course, the student will be able to:

a. List the major risk factors for Sleep Related Breathing Disorder (SRBD) in children;
b. Explain the pathophysiology of pediatric SRBD;
c. Identify the indications for a PSG sleep study in a pediatric patient;
d. Compare the differences in adult and pediatric sleep studies;
e. Summarize the challenges in performing a pediatric sleep study;
f. Describe the montage and equipment adjustments needed for a pediatric study;
g. Compare and contrast normal sleep patterns for infants, children, and adolescents;
h. Recognize the sleep stages and EEG changes in infants and children;
i. Interpret (score) a pediatric PSG study;
j. Recognize cardiac dysrhythmias common to the pediatric patient;
k. Describe when and how to initiate therapeutic intervention in a pediatric population; and
l. Describe the evaluation, features, and treatment of non-respiratory sleep disorders in children.

Major Topics to be Included:

a. Risk factors for SRBD in children
b. Pathophysiology of SRBD in children
c. Indications for a pediatric PSG
d. Challenges in performing a pediatric study
e. Pediatric montages and equipment adjustments
f. Sleep patterns for infants, children, and adolescents
g. Scoring a pediatric study
h. Cardiac dysrhythmias common to the pediatric patient
i. Therapeutic interventions for the pediatric patient
j. Non-respiratory sleep disorders in children

Effective Date of Course Content Summary: July 15, 2014

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