UND School of Medicine & Health Sciences
University of North Dakota

Phase 2/3 Elective Description

Campus: Southeast (Fargo)
Department: Family Medicine
Elective/Experience Title: Hyperbaric Medicine
Course Number: FMED 9510.02
Location of Elective: Swanson Hyperbarics 3541 25th St S, Suite 200 Fargo, ND, 58104

Preceptor(s): Allan Luistro, MD
Course Prerequisites: None
Period(s) Offered: All
Revised Curriculum Phase(s): Phase 3
Number of students per period: 1

Purpose: To increase the student's knowledge and experience in hyperbaric medicine.

Objectives:

Following successful completion of this elective, the student will be able to:

1. List UHMS/FDA-approved and investigational (international) indications for hyperbaric oxygen therapy (HBOT) (Competency 1.10, 2.7)
2. List contraindications to receiving HBOT and identify side effects. (Competency 1.10, 2.7)
3. Summarize the role of HBOT in select FDA-approved and investigational (international) indications. (Competency 1.9, 1.10, 2.7)
4. Execute an appropriate history and physical for patients requiring HBOT. (Competency 3.1)
5. Generate a treatment plan for patients requiring HBOT based on established treatment protocols. (Competency 3.4)
6. Summarize the roles and responsibilities of the hyperbaric staff. (Competency 7.3)
7. Execute with appropriate supervision basic procedures of HBOT treatments. (Competency 3.6)

Instructional Activities:

During this elective, the student will be involved in/experience:

1. Performing history and physical exams on patients presenting for HBOT.
2. With supervision, participate in special hyperbaric-related investigations such as:
    a. Right Eye testing
    b. qEEG evaluation
3. Educating patients regarding HBOT and appropriate use of Pulsed Electromagnetic Field (PEMF) and Hyperthermic Ozone and Carbonic Acid Transdermal Technology (HOCATT) treatments.
4. Students will give one medical presentation to Swanson Hyperbarics staff during the rotation.

Criteria for Grading:

During and following this elective, the preceptor will:

1. Utilize the standardized UNDSMHS senior elective evaluation form.
2. Evaluate by direct observation the student's ability to list FDA-approved and investigational (international) indications for HBOT (Objective 3)
3. Evaluate by direct observation the student's ability to recognize medical conditions that may benefit from HBOT and contraindications to HBOT. (Objective 1, 2, 5)
4. Evaluate by direct observation the student's ability to perform a history and physical examination on patients presenting for HBOT. (Objective 4)
5. Evaluate by direct observation the student's understanding of team roles in HBOT and skills in basic procedures and investigations of hyperbaric medicine. (objective 6, 7)