**Electives/Sub-Internships**

**Course Title:** Ultrasound basics & pearls  
**Course Number:**  
**Prerequisite:** 4th year students only  
**Department:** Radiology  
**Department URL:** [http://geiselmed.dartmouth.edu/radiology/](http://geiselmed.dartmouth.edu/radiology/)  
**Type:** ONE week elective  
**Faculty:**  
Director-Nancy McNulty  
Assistant director-Roberta Diflorio  
**Location:** DHMC-Lebanon campus  
**Duration:** 1 week  
**Credits:** Standard for 1 week elective  
**When Offered:** October, December, January, May (offered 2 weeks each of these months)  
**Visiting Students:** No

**Contact Information**  
**Coordinator:** Caitlin D Lowery  
**Coordinator E-mail:** Caitlin.D.Lowery@hitchcock.org  
**Coordinator Phone:** (603) 650-7497

**Course Description:**  
Ultrasound is being used with increasing frequency by a variety of medical specialties and point of care ultrasound use is growing in many clinical practices. The goal of this elective is to provide the student with a global experience in performing and interpreting ultrasounds across disciplines.

**Objectives & Goals:**  
At the end of this elective, the student should be able to explain the pertinent physics, techniques, limitations, and strengths of ultrasound. They should be able to manipulate ultrasound parameters to optimize image quality for deep and superficial structures and for vascular assessment. They should have developed sufficient interpretive skills to effectively use ultrasound in limited clinical circumstances.

**Instruction:**  
Student will be scheduled for ½ day assignments. These will include the following:  
1. SonoSim training – web based tutorials and mock scanning  
2. Ultrasound scanning with technologist  
3. Ultrasound interpretation with physician  
4. OB ultrasound  
5. Vascular ultrasound  
6. Interventional radiology ultrasound procedures  
Students will have time and access to self-scan or partner scan 2x during the rotation
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Evaluation:
This elective is pass/fail. To pass students will need to:
1. Achieve a score of 75% on the mastery exams for all assigned core clinical modules in SonoSim
2. Attend all 10 ½ day assignments
3. Fill out the evaluation form

Special Notes:
This elective is a pilot to determine the feasibility of a multidisciplinary elective, and the usefulness to subscribing students. The intent is to increase the times it is offered in the future, if time, money, and FTE constraints allow. Physicians who are committed to participating (in addition to DHMC department of radiology ultrasound specialists) include:

Dr Zwolak (vascular)
Dr Pschirrer (OB/GYN)
Dr Hoffer (VIR)

APPROVAL
Directions: Please print form and have Department Chair and Sponsor sign. (Clinical Education will submit to Associate Dean of Clinical Education for signature)

Department Chair
(Please print)

Elective Sponsor
(Please print)

6/3/14
6/3/14
6/2/2014
Electives/Sub-Internships

Return signed copy to:
Office of Clinical Education
HB 7015

AND

Please send electronic copy to: Clinical.Education@dartmouth.edu

6/2/2014