

## Small TLEF Project – Final Report

Report Completion Date (2017/04/18)

### 1. Project Overview

#### 1.1 General Information

Project Title: Emergency Department Ultrasound: An introduction to the ultrasound based clinical exam for medical students.

Principle Investigator: Dr. Andrew Skinner

Report Submitted by: Dr. Andrew Skinner

Project initiation date: Feb 1<sup>st</sup> 2013

Project Completion date: June 1<sup>st</sup> 2014

#### 1.2 Project Summary:

To obtain a dedicated computer based ultrasound machine to facilitate development and implementation of a point of care ultrasound curriculum for medical students. Curriculum consisting of Didactic lectures, online tutorials, hands on training.

Primary outcomes:

Development of introductory point of care ultrasound didactic lecture for students.

Development of 6 online ultrasound training modules.

Development of written point of care ultrasound manual for medical students.

Development of Point of care ultrasound log book for medical students.

Development of small group hands on training session

Development of student feedback form and knowledge assessment tool.

Funding for bedside clinical supervision of students during their emergency medicine rotation.

#### 1.3 Team Members:

Dr. Andrew Skinner, Dr. Dinesh Krishna, Dr. John Theoret

#### 1.4 Student Impact:

N/A

### 2. Project Evaluation

#### 2.1 Project Outcomes:

Intended benefits:

Students: During their emergency medicine rotation will learn key concepts of point of care ultrasound skills relating to Cardiac ultrasound for pericardial effusion, Chest ultrasound for pneumothorax, Assessment of Abdominal aortic aneurysm, Hemoperitoneum, vascular access, and procedural guidance. Students will also receive opportunity for hands on training and supervision.

Instructors: Would receive student feedback on quality of teaching materials and information about knowledge transfer and retention through pre and post testing. This information would then be used to implement a more formal teaching curriculum.

## 2.2 Findings:

This project unfortunately ended prematurely prior to its completion. The necessary equipment was procured and the Didactic lectures, materials for online modules, written manual, and forms were developed; but before the curriculum could be implemented with medical students rotating through the St. Paul's Emergency department, the Principle investigator and team members left St. Paul's Hospital to practice elsewhere.

## 2.3 Dissemination:

Since the curriculum developed was never implemented. Outcome measures have not been obtained for use in publications, presentations etc.

## 3. Teaching Practices:

As mentioned above. The proposed curriculum was never fully implemented. As such there have been no changes to teaching practices at this point.

## 4. Project Sustainment:

The Teaching materials developed for the student curriculum are still available within the emergency department and could be implemented at a later date if Members of the St. Paul's Emergency Department staff choose to do so.

The hardware procured for the project (Ultrasound machine, Laptop Computer, and Mobile Stand) are still in the Possession of the St. Paul's Emergency Department and are available for use in other teaching/educational projects.