ICU Ultrasound Program

Overview

Program Goals (Appendix)

- 1. The fellows will gain experience and competency in the following areas
 - 1.1. FAST
 - 1.2. Cardiac/IVC
 - 1.3. Abdominal
 - 1.4. Lung
 - 1.5. DVT
- 2. The fellows will complete a minimum of 25 scans per category and will require 250 scans during their fellowship.
 - 2.1. All scans will be logged in a database
 - All scans will undergo quality review for educational purposes

Fellow Responsibilities

- BWH Pulmonary/CCM Requirements
 - MICU F1 fellows will undergo a two-day US introduction training course in July
 - The MICU fellows are required to perform an Ultrasound scan shift once a month
 - The MICU fellows will continue to scan during their ICU rotations
 - Fellows during scan shifts will submit form to ED/MICU designee for tracking

Longitudinal Program

US fellows are required to complete a minimum 25 scans per organ during their fellowship. Total of 250 scans for completion letter

Requirements for Portfolio Image Collection

Cardiac Study (10 studies with the following images per study) Total: 50 images

- 1. Parasternal long axis view
- 2. Parasternal short axis view
- 3. Apical four-chamber view
- Subcostal long axis view
- 5. Inferior vena cava longitudinal view

Lung/Pleural Study Total: 50 images

- 1) Pleural effusion (any size) (12.5)
- 2) Sliding lung (12.5)
- 3) Consolidation (25)

FAST Study 25 images

- Article I. Left kidney longitudinal view with splenorenal space
 Article II. Right kidney longitudinal view with hepatorenal recess
- Article III. Abdominal aorta longitudinal view
- Article IV. Bladder transverse view

$\label{thm:continuous} Vascular\ Diagnostic\ DVT\ Study\ (3\ studies\ with\ the\ following\ images\ per\ study-include\ right\ and\ left\ legs)$

Total: 25 images

- · Right common femoral vein with compression
- Left common femoral vein with compression
- Right common femoral vein at saphenous intake with compression
- · Left common femoral vein at saphenous intake with compression
- Right superficial femoral vein with compression
- Left superficial femoral vein with compression
- Right popliteal vein with compression
 - 1. Left popliteal vein with compression

Introduction

- Orientation
 - 2 day July Introduction
- Didactics
 - On-line reading curriculum

Training

- BWH ED Scan Shifts
 - Read only access to scan calendar
 - Select days open with no more than 3 persons per shift
 - Communicate shift request with Rick Vanrooyen
 - Complete scan paperwork for tracking
 - Submit to Rick Vanrooyen
 - Minimum 1 shift per month goal of 10/first year

Procedure Logs

- Database
 - Maintain database utilizing EM Database
 - Rick will be contact person
 - May keep New Innov log as well

Training

- Longitudinal Training Assessment
 - MICU scanning (2-4/day)
 - Scan review per BWH US division faculty
 - Attend QA US conference with ED Faculty
 - Thursday afternoon

US Assessment Form

PLACE STICKER HERE Name: MRN# Date:	Sonographer(s)	Supervisin	g Attending		BWH
				Q/	A
CARDIAC	LV Function	[] Hyperdynamic [] Decreased	[] Normal	TP TN FP	
	Effusion	[] Yes	[] No	TP TN FF	FN TLS
	RV Strain	[] Yes	[] No	TP TN FF	FN TLS
	Activity	[] Yes	[] No		
Comments_				1	
THORACIC	Pneumothorax	[] Yes (L) [] Yes (R)	[] No	TP TN FF	
GAR	Effusion	[] Yes (L) [] Yes (R)		TP TN FF	
	B-Lines	[] Yes (L) [] Yes (R)		TP TN FF	FN TLS
	Consolidation	[] Yes (L) [] Yes (R)	[] No		
Comments_					
FAST	RUQ	[] Yes	[] No		
	LUQ	[] Yes	[] No	TP TN FF	FN TLS
	Pelvis	[] Yes	[] No		
Comments				T=5 =\ =5	
AORTA	AAA	[] Yes	[] No	TP TN FF	FN TLS
	III IB			TD TH 55	
PELVIS-TA	IUP	[] Yes	[] No	TP TN FF	FN ILS
	FHR	[] Yes:bpm	[] No		
Comments	Free Fluid	[] Yes	[] No		