



AUGUSTA UNIVERSITY  
**MEDICAL COLLEGE  
OF GEORGIA**

**Phase 3 (Year 3 and Year 4) Ultrasound Curriculum 2019 - 2020**

**Ultrasound Curriculum Description**

The Phase 3 ultrasound curriculum is housed in the FMPC 5000 (Family Medicine), OBGN 5000 (OB/GYN), GMED 5000 (Internal Medicine), SURG 5000 (Surgery), and EMED 5001 (Emergency Medicine) clerkship courses which are offered in Fall 2019 and Spring 2020 for the clerkship students. The curricular goals, objectives, dates / times, and assessments are outlined below.

**Ultrasound Curriculum Director**

***Becky J. Etheridge, EdD, RDMS, RT(R)***

Director of Ultrasound Education, Center for Ultrasound Education  
Assistant Professor, Department of Academic Affairs / Emergency Medicine & Hospitalist Services  
Medical College of Georgia, Augusta University  
1474 Laney Walker Blvd, Augusta, GA 30912  
Office: CJ3101, Pavilion III  
Phone: 706-721-2262  
Email: [retheridge@augusta.edu](mailto:retheridge@augusta.edu)

**Ultrasound Curriculum Faculty and Staff**

***Matthew Lyon, MD***

Executive Director, Center for Ultrasound Education  
Medical College of Georgia, Augusta University  
Office: CJ3101, Phone: 706-533-2936  
Email: [mlyon@augusta.edu](mailto:mlyon@augusta.edu)

***Chela Best, BS, RDMS***

Assistant Director of Ultrasound Education, Center for Ultrasound Education  
Medical College of Georgia, Augusta University  
Office: CJ3101, Phone: 706-721-5695  
Email: [gbest@augusta.edu](mailto:gbest@augusta.edu)

***Vicky Wingrove***

Administrative Assistant, Center for Ultrasound Education  
Medical College of Georgia, Augusta University  
Office: CJ3101, Phone: 706-721-2920  
Email: [vwingrove@augusta.edu](mailto:vwingrove@augusta.edu)

**Ultrasound Curricular Goals & General Objectives for Phase 3**

The goals of the *Phase 3* ultrasound curriculum include 1) Advancement of Point-of-Care ultrasound technology as a clinical skills tool to expand the educational experience of MCG medical students with basic science content and to provide a pathway for integration of knowledge into the clinical patient care setting and 2) Transformation of basic science content knowledge and clinical

experience of MCG medical students with Point-of-Care ultrasound technology to expand and improve their role as future physicians.

The general objective of the **Phase 3** ultrasound curriculum includes: application of Point-of-Care ultrasound scan techniques for basic and advanced ultrasound procedures and examinations as part of the required and elective core clerkship rotations within the **Phase 3** curriculum.

The **Phase 3 (Year 3 and Year 4) Ultrasound Curriculum** is executed in each of the following clerkships. Also, refer to the Phase 3 (Year 3 and Year 4) Clerkship Ultrasound Requirement Overview diagram and Image Requirement Diagram.

## OBN 5000 – OB/GYN Clinical Clerkship

Clerkship Director: Dr. Erin Latif / Clerkship Coordinator: Ms. Amanda Zabala / US Faculty: Dr. B. Etheridge

- **General Requirement:** Perform three (3) Intro to OB Scans on 3 SEPERATE patients using OB clerkship site ultrasound equipment and submit images in a single Powerpoint file to OBN 5000 D2L assignment by end of rotation AND complete Interactive Ultrasound Module with quiz in D2L end of rotation. **(ALL CLERKSHIP STUDENTS)**
- **Intro to OB scan images:**
  - Fetal heartrate with M-mode (Measure heartrate)
    - **Label:** Heartrate – Long or Trans – Note fetal heartrate ( \_ BPM) on slide
  - Fetal presentation
    - **Label:** Presentation – Long – Note whether Cephalic or Breech on slide
  - Placental location
    - **Label:** Placenta – Long – Note whether Anterior or Posterior placenta on slide
- **Scanning:**
  - Ask your attending physician / staff sonographer to assist you in getting your ultrasound images.
  - Ask patient if you can perform an educational ultrasound – tell them you are an MCG student. If patient consent for ultrasound is needed, go to [mcgultrasoundeducation.com](http://mcgultrasoundeducation.com) and click “UME – MCG Students” then “M3 Students” and “Patient Consent Form” on your phone and have the patient sign with their finger and the form will automatically submit to our Box account.
- **Submission of Intro to OB Ultrasound Images:**
  - This assignment is due by the end of your OB clerkship rotation.
  - You must deidentify (take patient name off images) prior to exporting them from the ultrasound machine to a thumb drive. You may also obtain images on thermal paper or by taking a photo of the screen with your cell phone. Be certain the patient’s name is not visible.
  - Create PowerPoint file with your deidentified images.
  - Save PowerPoint with your first and last name included in the file extension.

- Put the 3 images for one patient on a single slide. Your PowerPoint should include 3 slides since you should have 3 patients.
- Indicate which set of images you would like the ultrasound faculty/staff to give feedback on by placing a “star” on the right side of the slide that you want the feedback on.
- **Completion of Interactive Ultrasound Module in D2L:**
  - Completion of this module with associated quiz is due by the end of your OB clerkship rotation. The Interactive Ultrasound Module is located in the OB/GYN clerkship D2L course. The associated module quiz is also available there.
  - You will also need to complete the Interactive Ultrasound Module in D2L which includes a quiz over the module material.
- **Grading / Feedback:**
  - Following your submission in D2L of your 3 Intro to OB ultrasound patients, you will be given feedback on your “starred” Intro to OB exam. You will not be given a “grade” on this - only feedback. The feedback will be posted in the D2L clerkship course as an assignment.
  - Once you have submitted your Intro to OB ultrasound patients in D2L and completed the Interactive Ultrasound Module with quiz, the ultrasound faculty will report your completion of the images and Interactive ultrasound quiz to your clerkship director.
- **Feedback Rubric:**

Intro to OB Ultrasound Exam Feedback Rubric					
Correctly measures <b>Fetal Heart Tones</b> on M-mode ultrasound image ( <b>Label LONG or TRANS</b> )		Correctly measures <b>Fetal Heart Tones</b> on M-mode ultrasound image with limited errors ( <b>Label LONG or TRANS</b> )		Unable to correctly measure <b>Fetal Heart Tones</b> on M-mode ultrasound image ( <b>Label LONG or TRANS</b> )	
Correctly identifies <b>Fetal Heart Tones RATE</b> on powerpoint slide		Correctly identifies <b>Fetal Heart Tones RATE</b> on powerpoint slide		Unable to correctly identify <b>Fetal Heart Tones RATE</b> on powerpoint slide	
Correctly identifies <b>Fetal Presentation</b> on Long ultrasound image ( <b>Label as Cephalic or Breech</b> )		Correctly identifies <b>Fetal Presentation</b> on Long ultrasound image with limited errors ( <b>Label as Cephalic or Breech</b> )		Unable to correctly identify <b>Fetal Presentation</b> on Long ultrasound image ( <b>Label as Cephalic or Breech</b> )	
Correctly identifies <b>Placental Location</b> on Long ultrasound image ( <b>Label as Anterior or Posterior Placenta</b> )		Correctly identifies <b>Placental Location</b> on Long ultrasound image with limited errors ( <b>Label as Anterior or Posterior Placenta</b> )		Unable to correctly identify <b>Placental Location</b> on Long ultrasound image ( <b>Label as Anterior or Posterior Placenta</b> )	

# GMED 5000 – Medicine Clinical Clerkship

Clerkship Director: Dr. Thad Carson / Clerkship Coordinator: Ms. LizAndrea Jones / US Faculty: Dr. B. Etheridge


- **General Requirement:** Perform three (3) Cardiac Scans on 3 SEPERATE patients using Internal Medicine clerkship site ultrasound equipment at Augusta University Medical Center (AUMC) and submit images in a single Powerpoint file to GMED 5000 D2L assignment by end of rotation AND complete Interactive Ultrasound Module with quiz in D2L end of rotation. **(ALL CLERKSHIP STUDENTS EXCEPT ATHENS)**
- **Cardiac Ultrasound images:**
  - Subcostal 4 Chamber Heart
    - Label: Subcostal 4CH Trans on image, Label heart chambers and valves on image in Powerpoint
  - Parasternal Long Axis
    - Label: PSLA Long on image, Label heart chambers and valves on image in Powerpoint
  - Apical 4 Chamber Heart
    - Label: Apical 4CH Trans on image, Label heart chambers and valves on image in Powerpoint
- **Scanning:**
  - Ask your attending physician / resident to assist you in getting your ultrasound images.
  - Ask patient if you can perform an educational ultrasound – tell them you are an MCG student. If patient consent for ultrasound is needed, go to [mcgultrasoundeducation.com](http://mcgultrasoundeducation.com) and click “UME – MCG Students” then “M3 Students” and “Patient Consent Form” on your phone and have the patient sign with their finger and the form will automatically submit to our Box account.
- **Submission of Cardiac Images:**
  - This assignment is due by the end of your Internal Medicine clerkship rotation.
  - You must deidentify (take patient name off images) prior to exporting them from the ultrasound machine to a thumb drive. You may also obtain images on thermal paper or by taking a photo of the screen with your cell phone. Be certain the patient’s name is not visible.
  - Create PowerPoint file with your deidentified images.
  - Save PowerPoint with your first and last name included in the file extension.
  - Put the 3 images for one patient on a single slide. Your PowerPoint should include 3 slides since you should have 3 patients.
  - Indicate which set of images you would like the ultrasound faculty/staff to give feedback on by placing a “star” on the right side of the slide that you want the feedback on.
- **Completion of Interactive Ultrasound Module in D2L:**

- Completion of this module with associated quiz is due by the end of your Internal Medicine clerkship rotation. The Interactive Ultrasound Module is located in the Internal Medicine clerkship D2L course. The associated module quiz is also available there.
- You will need to complete the Interactive Ultrasound Module in D2L which includes a quiz over the module material.
- **Grading / Feedback:**
  - Following your submission in D2L of your 3 Cardiac ultrasound patients, you will be given feedback on your “starred” Cardiac exam. You will not be given a “grade” on this - only feedback. The feedback will be posted in the D2L clerkship course as an assignment.
  - Once you have submitted your Cardiac ultrasound images in D2L and completed the Interactive Ultrasound Module with quiz, the ultrasound faculty will report your completion of the images and Interactive ultrasound quiz to your clerkship director.
- **Feedback Rubric:**

<b>Cardiac Ultrasound Exam Feedback Rubric</b>				
Correctly acquires Subcostal 4 chamber heart view and correctly labels chambers and valves <b>(Label Subcostal 4CH Trans)</b>		Correctly acquires Subcostal 4 chamber heart view and correctly labels chambers and valves with limited errors <b>(Label Subcostal 4CH Trans)</b>		Unable to acquire Subcostal 4 chamber heart view or label chambers and valves <b>(Label Subcostal 4CH Trans)</b>
Correctly acquires Parasternal long axis view and correctly labels chambers and valves <b>(Label PSLA Long)</b>		Correctly acquires Parasternal long axis view and correctly labels chambers and valves with limited errors <b>(Label PSLA Long)</b>		Unable to correctly acquire Parasternal long axis view or correctly label chambers and valves <b>(Label PSLA Long)</b>
Correctly acquires Apical 4 chamber view and correctly labels chambers and valves <b>(Label Apical 4CH Trans)</b>		Correctly acquires Apical 4 chamber view and correctly labels chambers and valves with limited errors <b>(Label Apical 4CH Trans)</b>		Unable to correctly acquire Apical 4 chamber view or label chamber and valves <b>(Label Apical 4CH Trans)</b>

# FMPC 5000 –Family Medicine Clinical Clerkship

Clerkship Director: Dr. David Kriegal / Clerkship Coordinator: Ms. Dayna Seymore / US Faculty: Dr. B. Etheridge

- **General Requirement:** Perform three (3) Aorta and IVC Scans on 3 SEPERATE patients using Hand-held Lumify transducer with tablet system (provided by Center of Ultrasound Education thru Family Medicine Clerkship Sites) and submit images in a single Powerpoint file to FMPC 5000 D2L assignment by end of rotation AND complete Interactive Ultrasound Module with quiz in D2L end of rotation. **(ALL CLERKSHIP STUDENTS)**
- **Aorta and IVC images & Labeling:**
  - Transverse Aorta **above** the level of the SMA with Anterior to Posterior measurement
    - Label: Aorta Trans Proximal
  - Transverse Aorta at the level of the SMA with Anterior to Posterior measurement
    - Label: Aorta Trans Middle
  - Transverse Aorta above the bifurcation with Anterior to Posterior measurement
    - Label: Aorta Trans Distal
  - Longitudinal clip / image of the IVC and hepatic vein going through the liver and into the right atrium of the heart
    - Label: IVC long
- **Check Out / Returning Hand-held Lumify transducer with tablet system:**
  - After you power on the tablet, you will be asked for the tablet code: 1828. This is the founding year of MCG and is also located on the patch on your white coat. Next, be certain that you are connected to WiFi.
  - On the homepage of the tablet, you will see a “check in / out” as a note pad icon at the bottom. Click this to “check out” the transducer / tablet so we will know where the system is being used. At the end of your rotation, click this SAME button to “return” the system. We will be able to immediately see where all the systems are throughout the state of Georgia.
  - If you are unable to check out / return the system using the “check in / out” icon on the tablet, the link to the survey for this is:  
[http://augustastate.co1.qualtrics.com/jfe/form/SV\\_24PFQJH0rUSFoTX](http://augustastate.co1.qualtrics.com/jfe/form/SV_24PFQJH0rUSFoTX)
  - QR Code for “Check in / Out” link:  

  - You can also access this link at [mcgultrasoundeducation.com](http://mcgultrasoundeducation.com) under “UME” and click on the M3 or M4 tab.
- **Scanning:**
  - Ask your attending physician / resident to assist you in getting your ultrasound images.

- Ask patient if you can perform an educational ultrasound – tell them you are an MCG student. To document that the patient agreed to have an educational ultrasound, click on the AU logo with the name “eConsent” on the tablet. You can fill out the electronic consent form and have the patient sign with their finger and the form will automatically submit to our Box account.
- **Submission of Aorta / IVC Images:**
  - This assignment is due by the end of your Family Medicine clerkship rotation.
  - Email the images to yourself from the tablet. The tablet automatically removes the patient information.
  - Create PowerPoint file with your deidentified images.
  - Save PowerPoint with your first and last name included in the file extension.
  - Put the 4 images for one patient on a single slide. Your PowerPoint should include 3 slides since you should have 3 patients.
  - Indicate which set of images you would like the ultrasound faculty/staff to give feedback on by placing a “star” on the right side of the slide that you want the feedback on.
- **Completion of Interactive Ultrasound Module in D2L:**
  - Completion of this module with associated quiz is due by the end of your Family Medicine clerkship rotation. The Interactive Ultrasound Module is located in the Family Medicine clerkship D2L course. The associated module quiz is also available there.
  - You will need to complete the Interactive Ultrasound Module in D2L which includes a quiz over the module material.
- **Grading / Feedback:**
  - Following your submission in D2L of your 3 Aorta and IVC ultrasound patients, you will be given feedback on your “starred” exam. You will not be given a “grade” on this - only feedback. The feedback will be posted in the D2L clerkship course as an assignment.
  - Once you have submitted your Aorta and IVC ultrasound images in D2L and completed the Interactive Ultrasound Module with quiz, the ultrasound faculty will report your completion of the images and Interactive ultrasound quiz to your clerkship director.
- **Feedback Rubric:**

Aorta and IVC Ultrasound Exam Feedback Rubric					
Correctly acquires and identifies Aorta(Above SMA) with Anterior/Posterior measurement on Trans image(Labels image: Aorta Prox)		Correctly acquires and identifies Aorta(Above SMA) with Anterior/Posterior measurement on Trans image with limited errors (Labels image: Aorta Prox)		Unable to acquire and identify Aorta(Above SMA) with Anterior/Posterior measurement on Trans image(Labels image: Aorta Prox)	
Correctly acquires and identifies Aorta(At SMA) with Anterior/Posterior measurement on Trans		Correctly acquires and identifies Aorta(At SMA) with Anterior/Posterior measurement on Trans image		Unable to acquire and identify Aorta(At SMA) with Anterior/Posterior measurement	

image(Labels image: Aorta Mid)		with limited errors (Labels image: Aorta Mid)		on Trans image(Labels image: Aorta Mid)	
Correctly acquires and identifies Aorta(Above bifurcation) with Anterior/Posterior measurements on Trans image(Labels image: Aorta Dist)		Correctly acquires and identifies Aorta(Above bifurcation) with Anterior/Posterior measurements on Trans image with limited errors(Labels image: Aorta Dist)		Unable to acquire and identify Aorta(Above bifurcation) with Anterior/Posterior measurements on Trans image(Labels image: Aorta Dist)	
Correctly acquires and identifies IVC clip with hepatic vein on Long image (Label IVC long)		Correctly acquires and identifies IVC clip with hepatic vein on Long image with limited errors (Label IVC long)		Unable to acquire and identify IVC clip with hepatic vein on Long image (Label IVC long)	

## SURG 5000 –Surgery Clinical Clerkship

Clerkship Director: Dr. Bob Nesbit / Clerkship Coordinator: Ms. Tanya Simpson / US Faculty: Dr. B. Etheridge

- **General Requirement:** Perform three (3) FAST with Gallbladder Scans on 3 SEPERATE patients and submit images in a single Powerpoint file to SURG 5000 D2L assignment by end of rotation AND complete Interactive Ultrasound Module with quiz in D2L end of rotation. **(ALL CLERKSHIP STUDENTS)**
- If you are in a **Surgery Clerkship Site at AU Medical Center**, you will be using the Philips Sparq ultrasound unit located on 8S in the hospital.
- If you are in a **Surgery Clerkship Site OTHER THAN at AU Medical Center**, you will be assigned a Philips Lumify tablet and transducer for your scanning. You can email your images to yourself from the tablet to put into your powerpoint assignment.
- **FAST and Gallbladder images and Labeling:**
  - Liver with Right Kidney showing Morison’s Pouch
    - Label: RUQ long
  - Subcostal 4 Chamber heart
    - Label: Subcostal 4 Chamber Heart Trans
  - Spleen, diaphragm and left kidney
    - Label: LUQ long
  - Transverse image of the bladder
    - Label: Pelvis trans
  - Long image of the gallbladder
    - Label: GB long
- **Check Out / Returning Hand-held Lumify transducer with tablet system:**
  - After you power on the tablet, you will be asked for the tablet code: 1828. This is the founding year of MCG and is also located on the patch on your white coat. Next, be

certain that you are connected to WiFi.

- On the homepage of the tablet, you will see a “check in / out” as a note pad icon at the bottom. Click this to “check out” the transducer / tablet so we will know where the system is being used. At the end of your rotation, click this SAME button to “return” the system. We will be able to immediately see where all the systems are throughout the state of Georgia.
- If you are unable to check out / return the system using the “check in / out” icon on the tablet, the link to the survey for this is:  
[http://augustastate.co1.qualtrics.com/jfe/form/SV\\_24PFQJH0rUSFoTX](http://augustastate.co1.qualtrics.com/jfe/form/SV_24PFQJH0rUSFoTX)
- QR Code for “Check in / Out” link:



- You can also access this link at [mcgultrasoundeducation.com](http://mcgultrasoundeducation.com) under “UME” and click on the M3 or M4 tab.
- **Scanning:**
  - Ask your attending physician / resident to assist you in getting your ultrasound images.
  - Ask patient if you can perform an educational ultrasound – tell them you are an MCG student.
  - If you are using AUMC ultrasound equipment, ask patient if you can perform an educational ultrasound – tell them you are an MCG student. If patient consent for ultrasound is needed, go to [mcgultrasoundeducation.com](http://mcgultrasoundeducation.com) (Click “UME – MCG Students” then “M3 Students” and “Patient Consent Form” on your phone and have the patient sign with their finger and the form will automatically submit to our Box account.
  - To document that the patient agreed to have an educational ultrasound if using LUMIFY TABLET, click on the AU logo with the name “eConsent” on the tablet. You can fill out the electronic consent form and have the patient sign with their finger and the form will automatically submit to our Box account.
- **Submission of FAST / Gallbladder Images:**
  - This assignment is due by the end of your Surgery clerkship rotation.
  - You must deidentify (take patient name off images) prior to exporting them from the ultrasound machine to a thumb drive. You may also obtain images on thermal paper or by taking a photo of the screen with your cell phone. Be certain the patient’s name is not visible. If using LUMIFY transducer and tablet, email the images to yourself from the tablet. The tablet automatically removes the patient information from the images.
  - Create PowerPoint file with your deidentified images.
  - Save PowerPoint with your first and last name included in the file extension.
  - Put the 5 images for one patient on a single slide. Your PowerPoint should include 3 slides since you should have 3 patients.

- Indicate which set of images you would like the ultrasound faculty/staff to give feedback on by placing a “star” on the right side of the slide that you want the feedback on.
- **Completion of Interactive Ultrasound Module in D2L:**
  - Completion of this module with associated quiz is due by the end of your Surgery clerkship rotation. The Interactive Ultrasound Module is located in the Surgery clerkship D2L course. The associated module quiz is also available there.
  - You will need to complete the Interactive Ultrasound Module in D2L which includes a quiz over the module material.
- **Grading / Feedback:**
  - Following your submission in D2L of your 3 FAST with gallbladder ultrasound patients, you will be given feedback on your “starred” exam. You will not be given a “grade” on this - only feedback. The feedback will be posted in the D2L clerkship course as an assignment.
  - Once you have submitted your FAST with gallbladder ultrasound images in D2L and completed the Interactive Ultrasound Module with quiz, the ultrasound faculty will report your completion of the images and Interactive ultrasound quiz to your clerkship director.
- **Feedback Rubric:**

<b>FAST with Gallbladder Ultrasound Exam Feedback Rubric</b>					
Correctly acquires and identifies RUQ-Hepatorenal recess on Long ultrasound image ( <b>Label image RUQ long</b> )		Correctly acquires and identifies RUQ-Hepatorenal recess on Long ultrasound image with limited errors ( <b>Label image RUQ long</b> )		Unable to acquire or identify RUQ- Hepatorenal recess on Long ultrasound image ( <b>Label image RUQ long</b> )	
Correctly acquires and identifies Subcostal 4 Chamber heart on trans ultrasound image ( <b>Label image Subcostal 4CH trans</b> )		Correctly acquires and identifies Subcostal 4 Chamber heart on trans ultrasound image with limited errors ( <b>Label image Subcostal 4CH trans</b> )		Unable to correctly acquire and identify Subcostal 4 Chamber heart on trans ultrasound image ( <b>Label image Subcostal 4CH trans</b> )	
Correctly acquires and identifies LUQ interface of spleen and diaphragm on long ultrasound image ( <b>Label image LUQ long</b> )		Correctly acquires and identifies LUQ interface of spleen and diaphragm on long ultrasound image with limited errors ( <b>Label image LUQ long</b> )		Unable to correctly acquire and identify LUQ interface of spleen and diaphragm on long ultrasound image ( <b>Label image LUQ long</b> )	
Correctly acquires and identifies pelvis/urinary bladder on trans ultrasound image( <b>Label image Pelvis trans</b> )		Correctly acquires and identifies pelvis/urinary bladder on trans ultrasound image with limited errors ( <b>Label image Pelvis trans</b> )		Unable to correctly acquire and identify pelvis/urinary bladder on trans ultrasound image ( <b>Label image Pelvis trans</b> )	
Correctly acquires and identifies gallbladder on long ultrasound image ( <b>Label image GB long</b> )		Correctly acquires and identifies gallbladder on long ultrasound image with limited errors ( <b>Label image GB long</b> )		Unable to correctly acquire and identify gallbladder on long ultrasound image ( <b>Label image GB long</b> )	

# EMED 5001 –EM Clinical Clerkship

Clerkship Director: Dr. Eric Zevallos / Clerkship Coordinator: Ms. Holly Andrews / US Faculty: Dr. B. Etheridge

- **General Requirement:** Perform three (3) extended RUSHed protocol scans on 3 SEPERATE patients and submit images in a single Powerpoint file to EMED 5001 D2L assignment by end of rotation AND complete Interactive Ultrasound Module with quiz in D2L by end of rotation. **(ALL CLERKSHIP STUDENTS)**
- **Extended RUSHed Exam images include:**
  - For each of your 3 patients, you **MUST** submit:
    - Parasternal Long **OR** Apical Four Chamber Cardiac View (Tell whether each of your patients were hyperdynamic, hypodynamic, or normal on each slide)
    - Inferior Vena Cava View (Tell whether each of your patients were hypovolemic, hypervolemic, or euvolemic on each slide)
    - **AND 2 other images** of the RUSHed exam (see list below) that correlate to your patient (You should have 4 images for each patient)
      - Morison's Pouch with Hemithorax View
      - Splenorenal with Hemithorax View
      - Urinary bladder view
      - Aortic Sweep View
      - Thorax/Pleural Slide view
      - Deep Veins/ Extremity Vein
      - Ocular/ Optic Nerve Sheath Diameter View
      - Gallbladder view
- **Scanning:**
  - Ask your attending physician / resident to assist you in getting your ultrasound images.
  - Ask patient if you can perform an educational ultrasound – tell them you are an MCG student. If patient consent for ultrasound is needed, go to [mcultrasoundeducation.com](http://mcultrasoundeducation.com) and click “UME – MCG Students” then “M3 Students” and “Patient Consent Form” on your phone and have the patient sign with their finger and the form will automatically submit to our Box account.
- **Submission of Extended RUSHed Images:**
  - This assignment is due by the end of your Emergency Medicine clerkship rotation.
  - You must deidentify (take patient name off images) prior to exporting them from the ultrasound machine to a thumb drive. You may also obtain images on thermal paper or by taking a photo of the screen with your cell phone. Be certain the patient’s name is not visible.
  - Create PowerPoint file with your deidentified images.
  - Save PowerPoint with your first and last name included in the file extension.
  - Put the 4 images for one patient on a single slide. Your PowerPoint should include 3 slides since you should have 3 patients.

- Indicate which set of images you would like the ultrasound faculty/staff to give feedback on by placing a “star” on the right side of the slide that you want the feedback on.
- **Completion of Interactive Ultrasound Module in D2L:**
  - Completion of this module with associated quiz is due by the end of your Emergency Medicine clerkship rotation. The Interactive Ultrasound Module is located in the Emergency Medicine clerkship D2L course. The associated module quiz is also available there.
  - You will need to complete the Interactive Ultrasound Module in D2L which includes a quiz over the module material.
- **Grading / Feedback:**
  - Following your submission in D2L of your 3 Extended RUSHed ultrasound patients, you will be given feedback on your “starred” exam. You will not be given a “grade” on this - only feedback. The feedback will be posted in the D2L clerkship course as an assignment.
  - Once you have submitted your Extended RUSHed ultrasound images in D2L and completed the Interactive Ultrasound Module with quiz, the ultrasound faculty will report your completion of the images and Interactive ultrasound quiz to your clerkship director.
- **Feedback Rubric:**

Extended RUSHed Ultrasound Exam Feedback Rubric					
Correctly acquires and labels <b>Parasternal Long OR Apical 4 Chamber Heart View</b> (Label LONG or TRANS)		Correctly acquires and labels <b>Parasternal Long OR Apical 4 Chamber Heart View</b> with limited errors (Label LONG or TRANS)		Unable to correctly acquire and label <b>Parasternal Long OR Apical 4 Chamber Heart View</b> (Label LONG or TRANS)	
Correctly acquires and labels <b>IVC View</b> (Label LONG or TRANS)		Correctly acquires and labels <b>IVC View</b> with limited errors (Label LONG or TRANS)		Unable to correctly acquire and label <b>IVC View</b> (Label LONG or TRANS)	
Correctly acquires and labels an <b>additional RUSHed exam view</b> appropriate for patient history		Correctly acquires and labels an <b>additional RUSHed exam view</b> appropriate for patient history with limited errors		Unable to correctly acquire and label an <b>additional RUSHed exam view</b> appropriate for patient history	
Correctly acquires and labels an <b>additional RUSHed exam view</b> appropriate for patient history		Correctly acquires and labels an <b>additional RUSHed exam view</b> appropriate for patient history with limited errors		Unable to correctly acquire and label an <b>additional RUSHed exam view</b> appropriate for patient history	

NOTE: Additional ultrasound practice times at the Center for Ultrasound Education, CJ3101 are available on designated Tuesday, Thursday, and Friday afternoons. The specific open lab scanning dates and times for ALL PHASE 3 CLERKSHIP STUDENTS are available on the ultrasound center calendar at [mcgultrasoundeducation.com](http://mcgultrasoundeducation.com) .


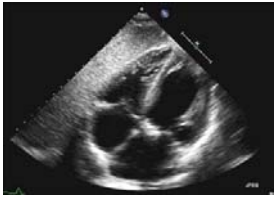

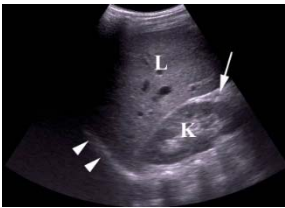
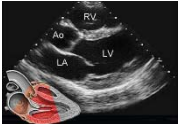

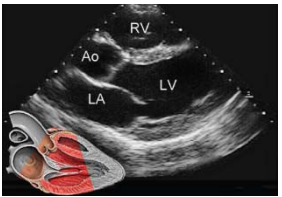

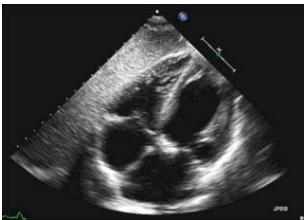


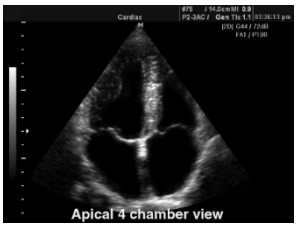



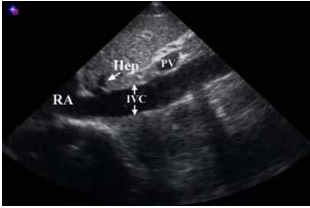




Medical College of Georgia

Phase 3 M3/M4 Clerkship Ultrasound Requirement Overview

Clerkship	OB/GYN	Internal Med	Family Med	Surgery	Emergency Med
<b>Exam Type and Required Images</b>	<b>3<sup>rd</sup> Trimester OB</b> 1. Fetal heartrate with M-mode 2. Documentation of fetal presentation 3. Documentation of placental location	<b>Cardiac</b> 1. Subcostal 4 Chamber Heart 2. Apical 4 Chamber Heart 3. Parasternal Long Axis Heart	<b>Aorta/IVC</b> 1. Trans Aorta above level of SMA with AP measurement 2. Trans Aorta at level of SMA with AP measurement 3. Trans Aorta above bifurcation with AP measurement 4. Long IVC with hepatic vein entering RA	<b>FAST with GB</b> 1. RUQ long image 2. Subcostal 4 Chamber heart image 3. LUQ long image 4. Trans Pelvis image 5. Long GB image	<b>RUSHed</b> 1. Parasternal Long <b>OR</b> Apical Four Chamber Heart view 2. Long IVC with hepatic vein entering RA view 3. 1 other RUSHed exam view decided by patient history 4. A 2 <sup>nd</sup> RUSHed exam view decided by patient history
<b>Equipment to Use</b>	OB clinical site ultrasound machine	Check out Iviz from Lizandrea Jones <b>OR</b> use Sparq on 8S	Lumify Transducer & Tablet at site from Center for US Educ	At AUMC? Use our equipment; Away sites use Lumify	Emergency Med clinical site ultrasound machine
<b># of Patient Images to Submit</b>	3	3	3	3	3
<b>How to Send Images for Review</b>	Obtain pictures on thermal paper, download from machine with a thumb drive, or take a picture of image with your phone. Create PowerPoint and upload to D2L assignment. <b>DEIDENTIFY images prior to submission.</b>	Download images with a thumb drive or take a picture with your phone. Create a PowerPoint and upload to D2L assignment. <b>DEIDENTIFY images prior to submission.</b>	E-mail images to yourself from tablet. If using ultrasound machine, download images with a thumb drive or take a picture with your phone. Create a PowerPoint and upload to D2L assignment. <b>DEIDENTIFY images prior to submission.</b>	E-mail images to yourself from tablet. If using ultrasound machine, download images with a thumb drive or take a picture with your phone. Create a PowerPoint and upload to D2L assignment. <b>DEIDENTIFY images prior to submission.</b>	Download images with a thumb drive or take a picture with your phone. Create a PowerPoint and upload to D2L assignment. <b>DEIDENTIFY images prior to submission.</b>

Phase 3 Year 3 / Year 4 Ultrasound Clerkship Image Requirements 2019-2020, v. July 1, 2019

OB / GYN (All Students)	Internal Med (AUMC Only)	Family Medicine (All Students)	Surgery (All Students)	Emergency Med (All Students)
				<p>OR</p>   <p>Apical 4 chamber view</p>
<p>Heartrate on slide from image above</p>				
	 <p>Apical 4 chamber view</p>			<p>Additional RUSHed view appropriate for shock patient history (RUSHed exam could include FAST, Aortic Sweep, Thorax, Deep Veins, Ocular, GB)</p>
			<p>AND</p>   <p>Normal gallbladder</p>	<p>SECOND Additional RUSHed view appropriate for shock patient history</p>