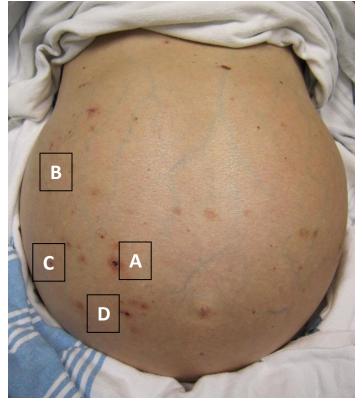
## Paracentesis Pre-work Quiz: (correct answers bolded)

- 1. Which of the following is an indication for a large volume paracentesis in a patient with large ascites?
  - a. Early satiety
  - b. Lower extremity edema
  - c. Acute kidney injury
  - d. No additional indication necessary if a patient has large ascites
- 2. Which of the following is a strict contraindication to a large volume paracentesis?
  - a. Sepsis
  - b. Inta-abdominal hypertension
  - c. INR >2
  - d. Plt <50
- 3. Which of the following is the most ideal site for a paracentesis? C



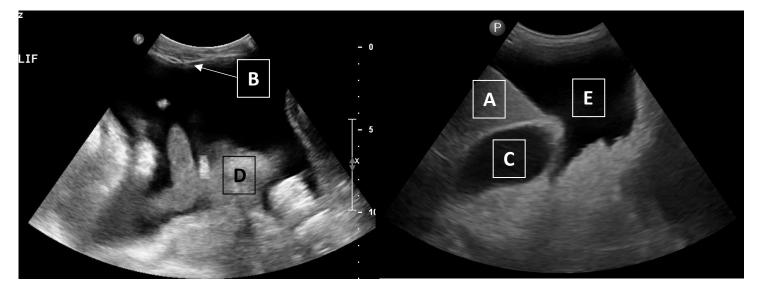
- 4. What is the preferred ultrasound transducer for evaluation of ascites?
  - a. Phased array
  - b. Linear
  - c. Curvilinear
  - d. Hepatic
- 5. Identity the following structures

Peritoneum\_B\_\_\_

Bowel\_D\_\_

Liver\_**A**\_\_\_

Ascites **\_E\_** Gallbladder C



- 6. What is the minimum distance between the peritoneum and adjacent structures in all 3 dimensions that is safe for a therapeutic paracentesis?
  - a. 1cm
  - b. 3cm
  - c. 4cm
  - d. 5cm
- 7. Which of the is NOT a potential complication of a large volume paracentesis?
  - a. Bowel obstruction
  - b. Hypotension
  - c. Abdominal wall hematoma
  - d. Persistent ascites fluid leak
  - e. Acute kidney injury
- 8. What is the most appropriate concentration and amount of albumin to infuse for a 10L large volume paracentesis? a. 50g of 25% IV albumin
  - b. 75g of 25% IV albumin
  - c. 50g of 5% IV albumin
  - d. 75g of 5% IV albumin
- 9. A patient presents with sub-acute shortness of breath and abdominal distention with pain. Ascites is noted on bedside ultrasound and a paracentesis is performed. Two liters of clear straw-colored fluid is removed. Fluid studies reveal a leukocyte count of 420 (40% PMNs), ascitic protein is 3.3 g/dL and ascitic albumin of 2.1 g/dL. Serum studies reveal a creatinine of 1.9 mg/dL, total bilirubin of 1.5 mg/dL, AST 70 U/L, ALT 100 U/L, albumin 3.3 g/dL. What is the next step in management?
  - a. Obtain a liver ultrasound with Doppler

## b. Obtain a transthoracic echocardiogram

- c. Consult hepatology for a liver biopsy
- d. Start ceftriaxone for presumed spontaneous bacterial peritonitis
- 10. A patient with known alcoholic cirrhosis whose ascites is typically well managed with diuretics presents with a tense and painful abdomen. He denies other new symptoms. Large ascites is confirmed with bedside ultrasound and a therapeutic paracentesis is performed. Which of the following is the most appropriate list of peritoneal fluid studies to obtain? Cell count, gram stain and culture, lactate dehydrogenase, albumin, total protein
  - a. Cell count and cytology
  - b. Cell count and albumin
  - c. Cell count, gram stain and culture
  - d. None, just remove fluid until abdominal pain improves