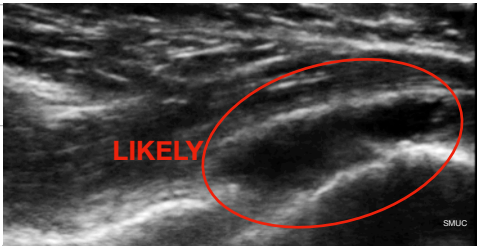
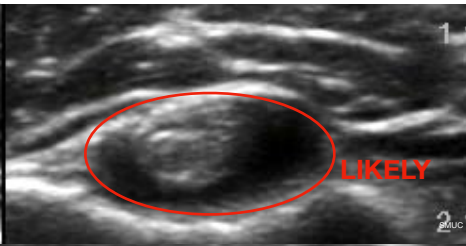
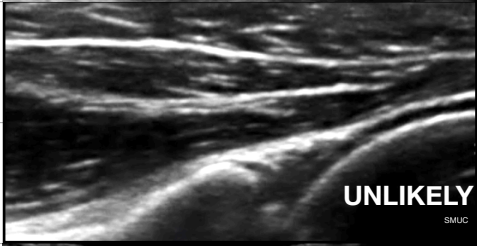
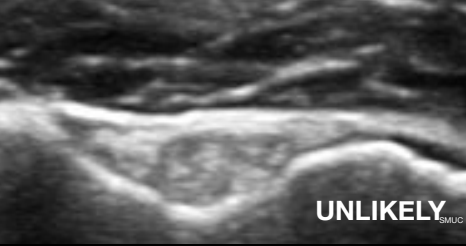
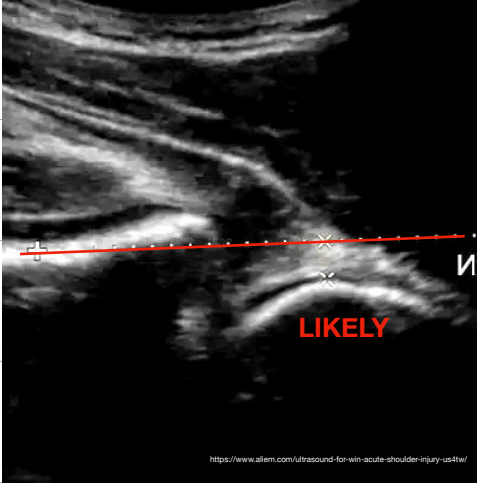
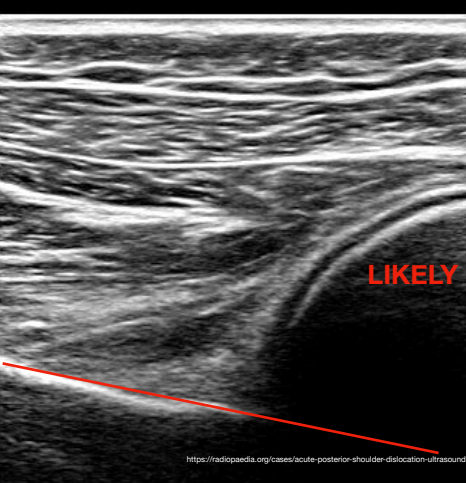
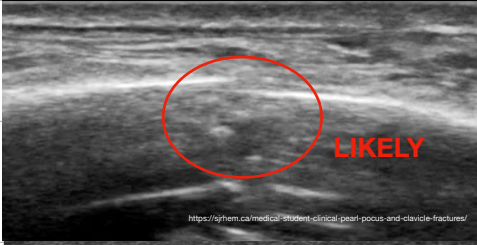
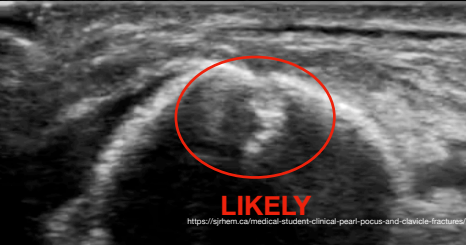
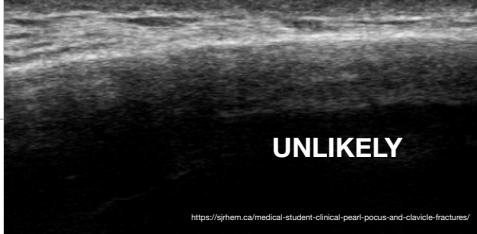


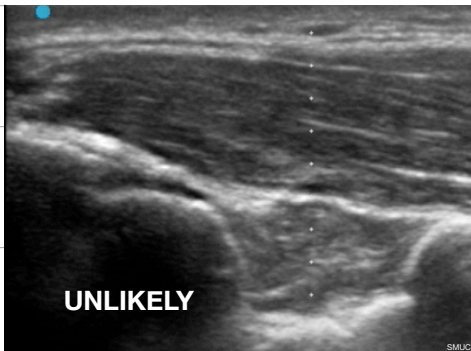
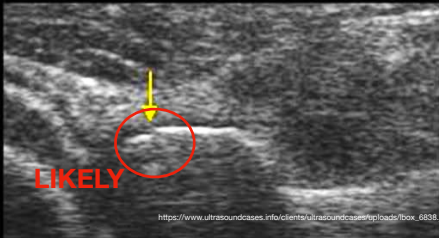
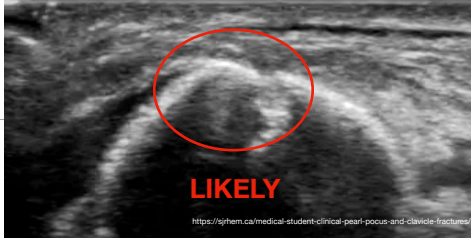

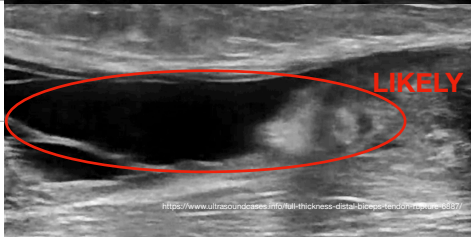



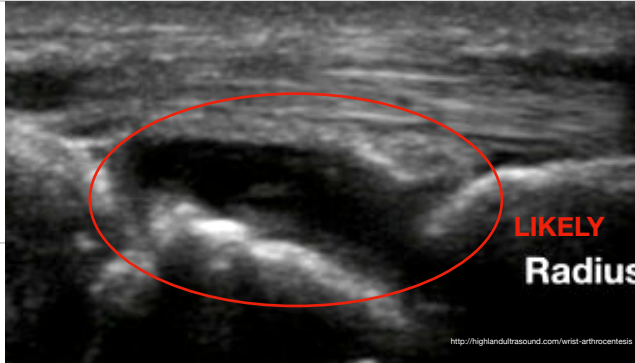
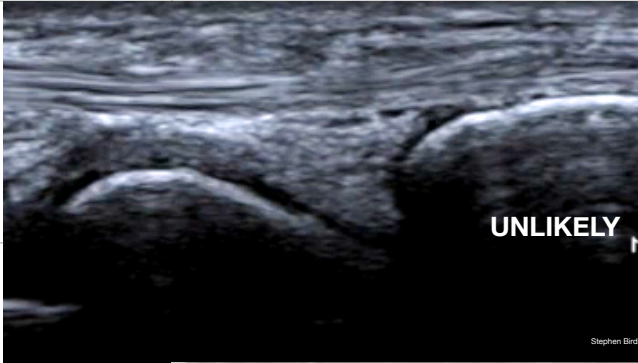


GH JOINT EFFUSION? / HEMARTHROSIS?	Image GHJ1: Transverse on posterior GHJ		Image GHJ2: Transverse over LHB distal to groove	
QUESTIONS	Question GHJ1: Large black (effusion) or grey fluid (hemarthrosis) collection?		Question GHJ2: Large black (effusion) or grey fluid (hemarthrosis) collection?	
LIKELY	+ Yes large fluid collection: + Effusion/Hemarthrosis LIKELY		+ Yes large fluid collection: + Effusion/Hemarthrosis LIKELY	
UNLIKELY	- No large fluid collection: - Effusion/Hemarthrosis UNLIKELY		- No large fluid collection: - Effusion/Hemarthrosis UNLIKELY	
GH JOINT DISLOCATION?	Image DISLOC1: Transverse on posterior GHJ		Image DISLOC2: Transverse on posterior GHJ	
QUESTIONS	Question DISLOC1: Humerus very far on screen?		Question DISLOC2: Humerus very near on screen?	
LIKELY	+ Yes: + Anterior dislocation LIKELY		+ Yes: + Posterior dislocation LIKELY	
UNLIKELY	- No - Anterior dislocation UNLIKELY		- No - Posterior dislocation UNLIKELY	
CLAVICLE FRACTURE?	Image CLAV1: Longitudinal on clavicle (must scan from SCJ to ACJ)		Image CLAV2: Transverse on clavicle (must scan from SCJ to ACJ)	
QUESTIONS	Question CLAV1: Bony cortex interrupted?		Question CLAV2: Bony cortex interrupted?	
LIKELY	+ Yes: + Fracture is LIKELY		+ Yes: + Fracture is LIKELY	
UNLIKELY	- No: - Fracture is UNLIKELY		- No: - Fracture is UNLIKELY	

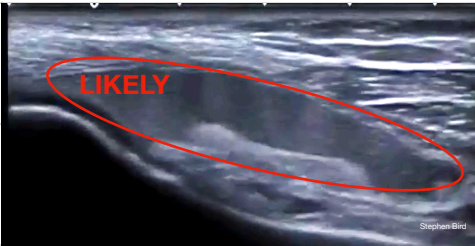
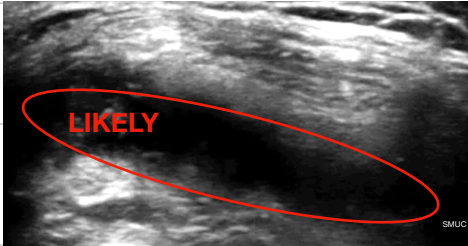

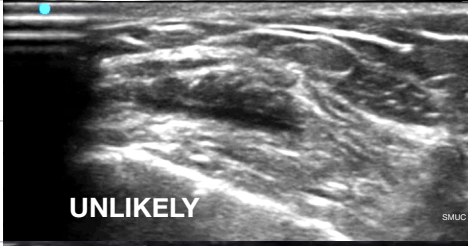
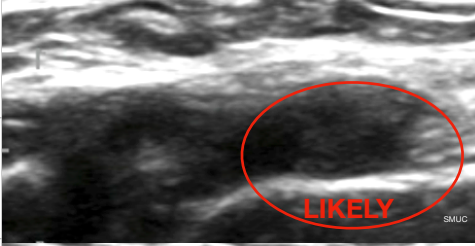
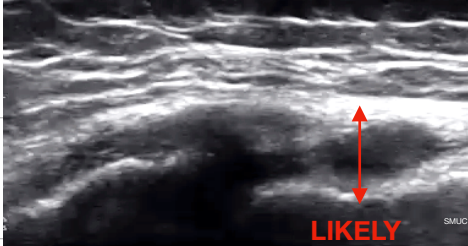



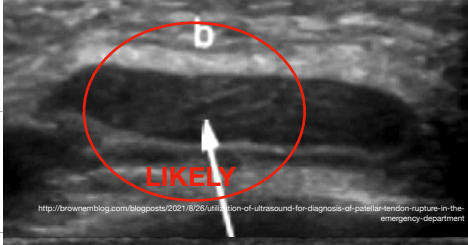

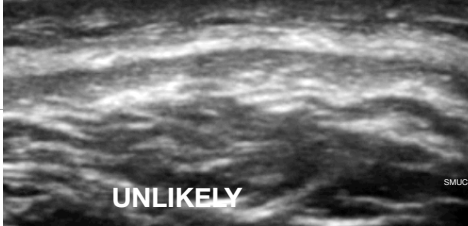


ELBOW JOINT EFFUSION? / HEMARTHROSIS?	Image ELBOW1: Longitudinal on posterior humerus at elbow	Question ELBOW1: Large black (effusion) or grey fluid (hemarthrosis) collection?
	LIKELY + Yes large fluid collection: + Effusion/Hemarthrosis LIKELY	UNLIKELY - No large fluid collection: - Effusion/Hemarthrosis UNLIKELY
		
RADIAL HEAD FRACTURE?	Image RADIUS1: Longitudinal on lateral radius/ radial head at elbow joint	Image RADIUS2: Transverse on lateral radius/ radial head at elbow joint
QUESTIONS	Question RADIUS1: Bony cortex interrupted?	Question RADIUS2: Bony cortex interrupted?
LIKELY	+ Yes: + Fracture is LIKELY	+ Yes: + Fracture is LIKELY
UNLIKELY	- No - Fracture is UNLIKELY	- No - Fracture is UNLIKELY
		
BICEPS RUPTURE? <i>ADVANCED ONLY!</i>	Image BICEPS1: Longitudinal on biceps at pronator window	Image BICEPS2: Longitudinal on anterior humerus at elbow
QUESTIONS	Question BICEPS1: Biceps stump seen on radius?	Question BICEPS2: Large black (seroma) or grey fluid (hematoma) collection?
LIKELY	+ Yes: + Rupture is LIKELY	+ Yes: + Rupture is LIKELY
UNLIKELY	- No: - Rupture is UNLIKELY	- No: - Rupture is UNLIKELY
		
		

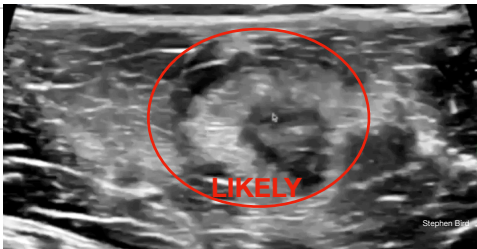

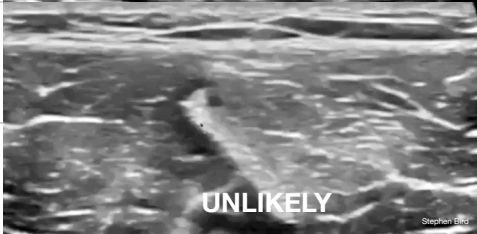
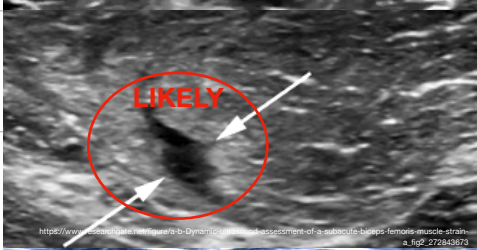
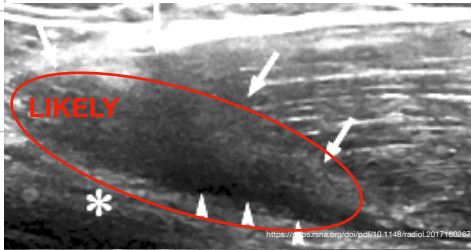

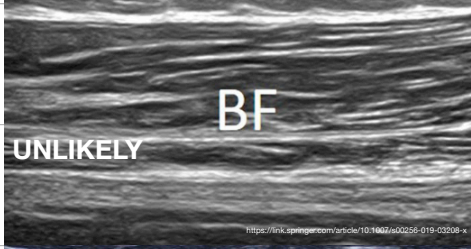

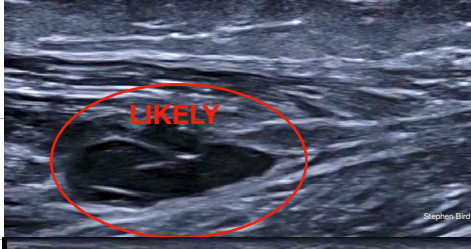

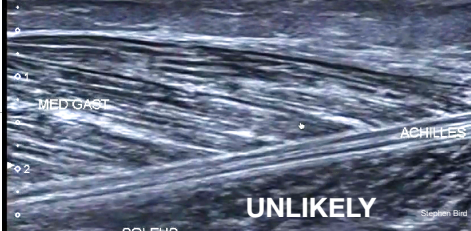


WRIST JOINT EFFUSION? / HEMARTHROSIS?	Image WRIST1: Longitudinal on dorsal radius at scaphoid	Question WRIST1: Large black (effusion) or grey fluid (hemarthrosis) collection?
	LIKELY + Yes large fluid collection: + Effusion/ Hemarthrosis LIKELY	UNLIKELY - No large fluid collection: - Effusion/ Hemarthrosis UNLIKELY
		
DISTAL RADIUS FRACTURE?	Image RADIUS1: Longitudinal on dorsal radius over area of TTP / swelling	Image RADIUS2: Transverse on dorsal radius over area of TTP / swelling
QUESTIONS	Question RADIUS1: Bony cortex interrupted?	Question RADIUS2: Bony cortex interrupted?
LIKELY	+ Yes? + Fracture is LIKELY	+ Yes? + Fracture is LIKELY
UNLIKELY	- No - Fracture is UNLIKELY	- No - Fracture is UNLIKELY

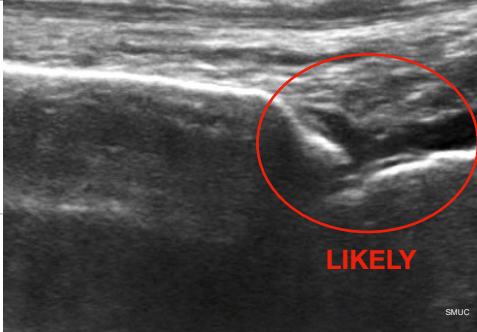
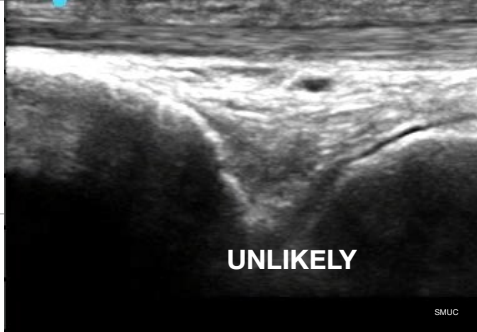
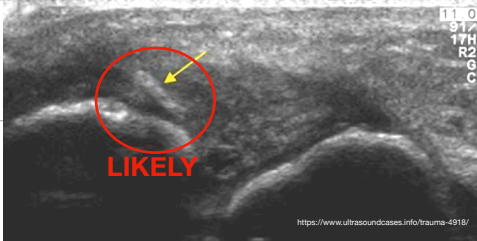
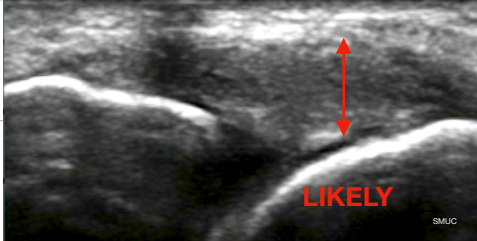


KNEE JOINT EFFUSION? / HEMARTHROSIS?	Image KNEE1: Longitudinal on anterior femur at patella		Image KNEE2: Transverse on anterior femur at patella	
QUESTIONS	Question KNEE1: Large black (effusion) or grey fluid (hemarthrosis) collection?		Question KNEE2: Large black (effusion) or grey fluid (hemarthrosis) collection?	
LIKELY	+ Yes large fluid collection: + Effusion/Hemarthrosis LIKELY		+ Yes large fluid collection: + Effusion/Hemarthrosis LIKELY	
UNLIKELY	- No large fluid collection: - Effusion/Hemarthrosis UNLIKELY		- No large fluid collection: - Effusion/Hemarthrosis UNLIKELY	
MCL TEAR?	Image MCL1: Longitudinal on medial femur at proximal to knee joint		Image MCL2: Longitudinal on medial femur at knee joint	
QUESTIONS	Question MCL1: Is MCL absent?		Question MCL2: Is MCL thicker than 5mm?	
LIKELY	+ Yes: + MCL avulsion is LIKELY		+ Yes: + Sprain is MORE LIKELY if MCL is thicker than 6mm	
UNLIKELY	- No - MCL avulsion is UNLIKELY		- No - Sprain is LESS LIKELY if MCL is thinner than 3 mm	
PATELLAR / QUADS TENDON TEAR	Image PAT1 / QUAD1: Longitudinal on entire Patellar/Quads tendon		Image PAT2 / QUAD2: Transverse on Patellar/Quads tendons at Patella	
QUESTIONS	Question PAT1 / QUAD1: Is Patellar/Quads tendon absent?		Question PAT2 / QUAD2: Are there black or grey areas within the tendon?	
LIKELY	+ Yes: + Total rupture LIKELY		+ Yes: + Partial rupture is LIKELY	
UNLIKELY	- No: - Total rupture UNLIKELY		- No: - Partial rupture is UNLIKELY	



RECTUS FEMORIS MID-PORTION TEAR?	Image RECFEM1: Transverse on mid rectus femoris at area of TTP / swelling		Image RECFEM2: Longitudinal on mid rectus femoris at area of TTP / swelling	
QUESTIONS	Question RECFEM1: Large black (seroma) or grey fluid (hematoma) collection?		Question RECFEM2: Large black (seroma) or grey fluid (hematoma) collection?	
LIKELY	+ Yes large fluid collection: + Seroma/hematoma LIKELY		+ Yes large fluid collection: + Seroma/hematoma LIKELY	
UNLIKELY	- No large fluid collection: - Seroma/hematoma UNLIKELY		- No large fluid collection: - Effusion/Hemarthrosis UNLIKELY	
BICEPS FEMORIS MID-PORTION TEAR?	Image BICEPSFEM1: Transverse on mid biceps femoris at area of TTP / swelling		Image BICEPSFEM2: Longitudinal on mid biceps femoris at area of TTP / swelling	
QUESTIONS	Question BICEPSFEM1: Large black (seroma) or grey fluid (hematoma) collection?		Question BICEPSFEM2: Large black (seroma) or grey fluid (hematoma) collection?	
LIKELY	+ Yes large fluid collection: + Seroma/hematoma LIKELY		+ Yes large fluid collection: + Seroma/hematoma LIKELY	
UNLIKELY	- No large fluid collection: - Seroma/hematoma UNLIKELY		- No large fluid collection: - Seroma/hematoma UNLIKELY	
GASTROCNEMIUS DISTAL TEAR?	Image GASTROC1: Transverse on medial distal gastroc. at area of TTP / swelling		Image GASTROC2: Longitudinal on medial distal gastroc. at area of TTP / swelling	
QUESTIONS	Question GASTROC1: Large black (seroma) or grey fluid (hematoma) collection?		Question GASTROC2: Large black (seroma) or grey fluid (hematoma) collection?	
LIKELY	+ Yes large fluid collection: + Seroma/hematoma LIKELY		+ Yes large fluid collection: + Seroma/hematoma LIKELY	
UNLIKELY	- No large fluid collection: - Seroma/hematoma UNLIKELY		- No large fluid collection: - Seroma/hematoma UNLIKELY	



ANKLE JOINT EFFUSION? / HEMARTHROSIS?	Image ANKLE1: Longitudinal on anterior tibia at ankle	Question ANKLE1: Large black (effusion) or grey fluid (hemarthrosis) collection?
	LIKELY + Yes large fluid collection: + Effusion/ Hemarthrosis LIKELY	UNLIKELY - No large fluid collection: - Effusion/ Hemarthrosis UNLIKELY
		
FIBULAR # ATFL TEAR	Image ATFL1: Transverse on distal fibula at ATFL	Image ATFL2: Longitudinal on ATFL
QUESTIONS	Question ATFL1: Bony cortex interrupted?	Question ATFL2: Is ATFL more than 5mm thick?
LIKELY	+ Yes: + Fibular avulsion # LIKELY	+ Yes: + AFTL Injury LIKELY if > 5mm
UNLIKELY	- No: - Fibular avulsion # UNLIKELY	- No: - AFTL Injury UNLIKELY if < 3mm
		
ACHILLES TENDON TEAR	Image ACHILLES1: Longitudinal on achilles tendon with calcaneus on screen	Image ACHILLES2: Longitudinal on achilles tendon without calcaneus on screen
QUESTIONS	Question ACHILLES1: Are there black or grey areas within the tendon?	Question ACHILLES2: Are there black or grey areas within the tendon?
LIKELY	+ Yes: + Partial Tear LIKELY	+ Yes: + Partial or Total rupture LIKELY
UNLIKELY	- No: - Partial Tear UNLIKELY	- No: - Partial or total rupture UNLIKELY
	