



	CANADA	••••••	ACTION	
GH JOINT EFFUSION? / HEMARTHROSIS?	Image GHJ1: Transverse on posterior GHJ		Image GHJ2: Transverse over LHB distal to groove	1
QUESTIONS	Question GHJ1: Large black (effusion) or grey fluid (hemarthrosis) collection?	LIKELY	Question GHJ2: Large black (effusion) or grey fluid (hemarthrosis) collection?	LIKELY 2nc
LIKELY	+ Yes large fluid collection: + Effusion/Hemarthrosis LIKELY		Yes large fluid collection:     Effusion/Hemarthrosis LIKELY	
UNLIKELY	No large fluid collection:     Effusion/Hemarthrosis UNLIKELY	UNLIKELY	No large fluid collection:     Effusion/Hemarthrosis UNLIKELY	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	LIKELY	+ Yes: + Posterior dislocation LIKELY	LIKELY
UNLIKELY	- No - Anterior dislocation UNLIKELY	https://www.alem.com/ultrasound-for-win-acute-shoulder-injury-us-ktw/	<ul><li>No</li><li>Posterior dislocation UNLIKELY</li></ul>	https://radiopaedia.org/cases/acute-posterior-shoulder-dislocation-ultrasound
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?	Mpp.//ghem.ca/medical shotent-clinical pearl pocus and clavide fractures/	Question CLAV2: Bony cortex interrupted?	https://ghan.ca/medical-student-clinical-poors-poors-and-clavide-fractures/
LIKELY	+ Yes: + Fracture is LIKELY		+ Yes: + Fracture is LIKELY	
UNLIKELY	- No: - Fracture is UNLIKELY	UNLIKELY  https://lighem.co/medical-student-clinical-poear-pocas-and-clasicide-fractures	<ul><li>No:</li><li>Fracture is UNLIKELY</li></ul>	UNLIKELY





ELBOW JOINT EFFUSION? / HEMARTHROSIS?	Image ELBOW1: Longitudinal on posterior humeru	s 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	
		LIKELY		UNLIKELY
RADIAL HEAD FRACTURE?	Image RADIUS1: Longitudinal on lateral radius/ radial head at elbow joint		Image RADIUS2: Trasnverse on lateral radius/ radial head at elbow joint	SM
QUESTIONS	Question RADIUS1: Bony cortex interrupted?	ERRELY  https://www.utracoundcases.nlocker/sollandcasengploads/flox.6858.pg	Question RADIUS2: Bony cortex interrupted?	<b>LIKELY</b> https://gipem.ca/medical-student-cirical-poor-poor-sand-clavide-fracture
LIKELY	+ Yes: + Fracture is LIKELY		+ Yes: + Fracture is LIKELY	
UNLIKELY	- No - Fracture is UNLIKELY	UNLIKELY	- No - Fracture is UNLIKELY	UNLIKELY  https://gi/hem.cu/medical-student-dirical-peak-poou-and-clavidie-fracture
BICEPS RUPTURE? ADVANCED ONLY!	Image BICEPS1: Longitudinal on biceps at pronator window	HKELY	Image BICEPS2: Longitudinal on anterior humerus at elbow	LIKELY
QUESTIONS	Question BICEPS1: Biceps stump seen on radius?	https://www.utrasound.uses.info.hut-trickyna.sastil baceps-temps.phUS877	Question BICEPS2: Large black (seroma) or grey fluid (hematoma) collection?	http://www.minochusanethioNethickussedinasecondesiconsections
LIKELY	+ Yes: + Rupture is LIKELY	UNLIKELY	+ Yes: + Rupture is LIKELY	
UNLIKELY	- No: - Rupture is UNLIKELY	SMUC	- No: - Rupture is UNLIKELY	





SITE OF PAIN

NAME:		
DATE & TIME:		
FINDINGS:		
ACTION:		

WRIST JOINT EFFUSION? / HEMARTHROSIS?			Question WRIST1: Large black (effusion) or grey fluid (hemarthrosis) collection?	
	LIKELY + Yes large fluid collection: + Effusion/ Hemarthrosis LIKELY	LIKELY Radius	UNLIKELY - No large fluid collection: - Effusion/ Hemarthrosis UNLIKELY	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?	LIKELY	Question RADIUS2: Bony cortex interrupted?	<b>LIKELY</b> https://liphem.co/medical-student-cirical-pearl-pocus and-cilivide-insclures
LIKELY	+ Yes? + Fracture is LIKELY		+ Yes? + Fracture is LIKELY	
UNLIKELY	- No - Fracture is UNLIKELY	UNLIKELY	- No - Fracture is UNLIKELY	UNLIKELY  https://lightem.ca/medical-student-clinical-pearl-poous and-clainice-hashum





SITE OF PAIN

			ACTION:	
KNEE JOINT EFFUSION? / HEMARTHROSIS?	Image KNEE1: Longitudinal on anterior femur at patella	LIKELY	Image KNEE2: Transverse on anterior femur at patella	LIKELY
QUESTIONS	Question KNEE1: Large black (effusion) or grey fluid (hemarthrosis) collection?	S Tip Jam Bill.	Question KNEE2: Large black (effusion) or grey fluid (hemarthrosis) collection?	SMUC
LIKELY	+ Yes large fluid collection: + Effusion/Hemarthrosis LIKELY		+ Yes large fluid collection: + Effusion/Hemarthrosis LIKELY	
UNLIKELY	- No large fluid collection: - Effusion/Hemarthrosis UNLIKELY	UNLIKELY	No large fluid collection:     Effusion/Hemarthrosis UNLIKELY	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?	LIKELY	Question MCL2: Is MCL thicker than 5mm?	LIKELY SAUC
LIKELY	+ Yes: + MCL avulsion is LIKELY		<ul><li>+ Yes:</li><li>+ Sprain is MORE LIKELY if MCL is thicker than 6mm</li></ul>	
UNLIKELY	- No - MCL avulsion is UNLIKELY	UNLIKELY	<ul><li>No</li><li>Sprain is LESS LIKELY if MCL is thinner than 3 mm</li></ul>	UNLIKELY smuc 2
PATELLAR / QUADS TENDON TEAR	Image PAT1 / QUAD1: Longitudinal on entire Patellar/ Quads tendon		Image PAT2 / QUAD2: Transverse on Patellar/Quads tendons at Patella	D
QUESTIONS	Question PAT1 / QUAD1: Is Patellar/Quads tendon absent?	LIKELY	Question PAT2 / QUAD2: Are there black or grey areas within the tendon?	Ntp://brownenticg.com/Boggods/2001/8708/d.tal pro- of ultrasound for diagnosis of paid in tendon rupture in the emagainty-department
LIKELY	+ Yes: + Total rupture LIKELY		+ Yes: + Partial rupture is LIKELY	
UNLIKELY	- No: - Total rupture UNLIKELY	1 - UNLIKELY	- No: - Partial rupture is UNLIKELY	UNLIKELY





SITE OF PAIN

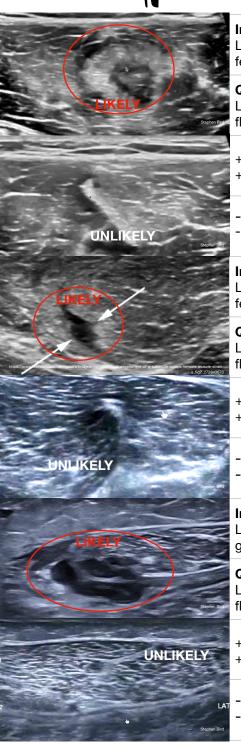
NAME:

DATE & TIME:

FINDINGS:

ACTION:

RECTUS FEMORIS MID-PORTION TEAR?	Image RECFEM1: Transverse on mid rectus femoris at area of TTP / swelling
QUESTIONS	Question RECFEM1: Large black (seroma) or grey fluid (hematoma) collection?
LIKELY	+ Yes large fluid collection: + Seroma/hematoma LIKELY
UNLIKELY	No large fluid collection:     Seroma/hematoma UNLIKELY
BICEPS FEMORIS MID-PORTION TEAR?	Image BICEPSFEM1: Transverse on mid biceps femoris at area of TTP / swelling
QUESTIONS	Question BICEPSFEM1: Large black (seroma) or grey fluid (hematoma) collection?
LIKELY	+ Yes large fluid collection: + Seroma/hematoma LIKELY
UNLIKELY	No large fluid collection:     Seroma/hematoma UNLIKELY
GASTROC- NEMIUS DISTAL TEAR?	Image GASTROC1: Transverse on medial distal gastroc. at area of TTP / swelling
QUESTIONS	Question GASTROC1: Large black (seroma) or grey fluid (hematoma) collection?
LIKELY	+ Yes large fluid collection: + Seroma/hematoma LIKELY
UNLIKELY	<ul><li>No large fluid collection:</li><li>Seroma/hematoma UNLIKELY</li></ul>



### Image RECFEM2:

Longitudinal on mid rectus femoris at area of TTP / swelling

#### **Question RECFEM2:**

Large black (seroma) or grey fluid (hematoma) collection?

- + Yes large fluid collection:
- + Seroma/hematoma LIKELY
- No large fluid collection:
- Effusion/Hemarthrosis UNLIKELY

### Image BICEPSFEM2:

Longitudinal on mid biceps femoris at area of TTP / swelling

### **Question BICEPSFEM2:**

Large black (seroma) or grey fluid (hematoma) collection?

- + Yes large fluid collection:
- + Seroma/hematoma LIKELY
- No large fluid collection:
- Seroma/hematoma UNLIKELY

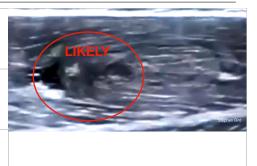
### Image GASTROC2:

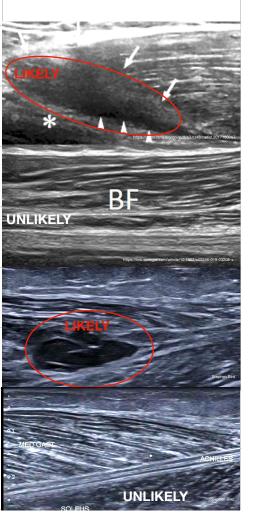
Longitudinal on medial distal gastroc. at area of TTP / swelling

#### **Question GASTROC2:**

Large black (seroma) or grey fluid (hematoma) collection?

- + Yes large fluid collection:
- + Seroma/hematoma LIKELY
- No large fluid collection:
- Seroma/hematoma UNLIKELY









ANKLE JOINT EFFUSION? / HEMARTHROSIS?			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	
		LIKELY		UNLIKELY
FIBULAR # ATFL TEAR	Image ATFL1: Transverse on distal fibula at ATFL	91 177 18	Image ATFL2: Longitudinal on ATFL	
QUESTIONS	Question ATFL1: Bony cortex interrupted?	LIKELY  https://www.ulirascundcases.info/traume-4918/	Question ATFL2: Is ATFL more than 5mm thick?	LIKELY
LIKELY	+ Yes: + Fibular avulsion # LIKELY		+ Yes: + AFTL Injury LIKELY if > 5mm	
UNLIKELY	- No: - Fibular avulsion # UNLIKELY	UNLIKELY  Mps://www.utrasoundcases.info/rauma-4916/	- No: - AFTL Injury UNLIKELY if<3mm	UNLIKELY
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?	LIKELY	Question ACHILLES2: Are there black or grey areas within the tendon?	LIKELY
LIKELY	+ Yes: + Partial Tear LIKELY		+ Yes: + Partial or Total rupture LIKELY	
UNLIKELY	- No: - Partial Tear UNLIKELY	UNLIKELY	- No: - Partial or total rupture UNLIKELY	UNLIKELY