

ACUSON Juniper ultrasound system

MSK interventional procedures

Poster done by Dr. Ayman, Medical Center Al Zahiyah, Abu Dhabi

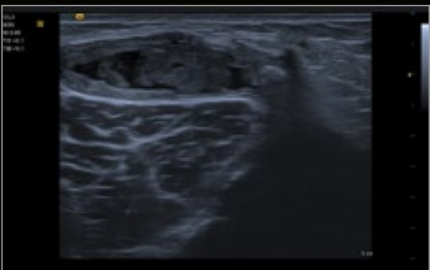
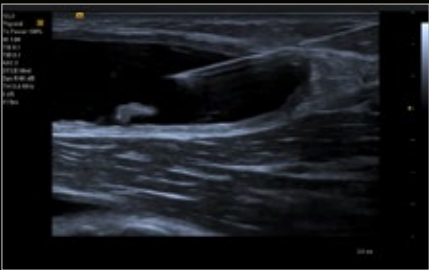
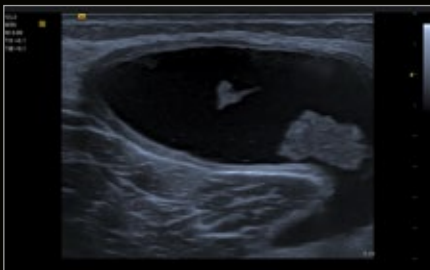
Performing interventional procedures under ultrasound guidance is considered an important skill set for musculoskeletal radiologists and/or clinicians, allowing real-time needle visualization. The use of ultrasound adds to the accuracy of needle placement in spaces that are considered difficult when relying on topical landmarks alone and improves clinical outcomes for injection and/or aspiration.



Popliteal cyst aspiration

History: 42-year-old man with painful swollen left knee. Popliteal cyst. Aspiration of 70 ml serous effusion using a 21-gauge needle.

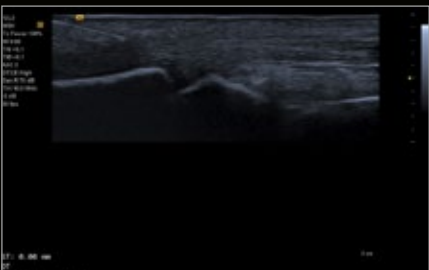
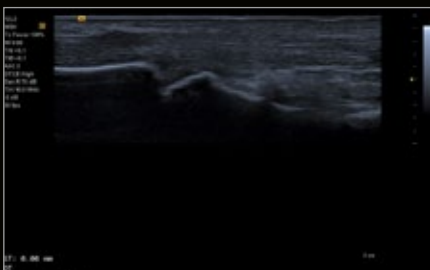
Result: Aspiration led to immediate reduction of the swelling, significant improvement of pain and improvement in range of motion (flexion).



Trigger finger steroid injection

History: Painful triggering of middle finger that interferes with use during daily life activities. Injection of 1ml of betamethasone.

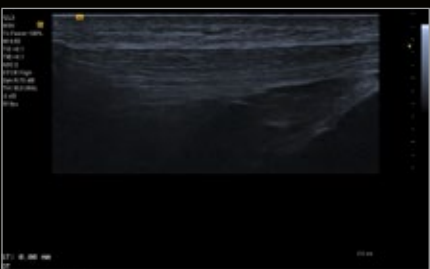
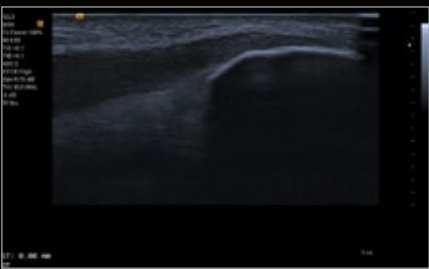
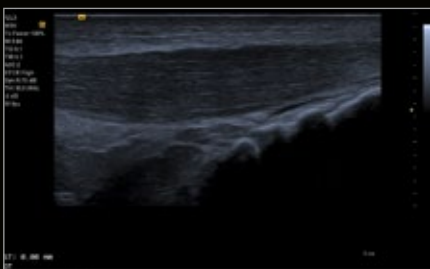
Result: The patient tolerated the procedure without complication. Improvement in range of motion (flexion & extension).



Patellar tendon Juxta infiltration

History: Professional volleyball player with anterior knee pain with analgic incomplete flexion. Ultrasound scan shows patellar tendinopathy changes. Pre-patellar tendon injection was done under ultrasound guidance.

Result: The condition ended in full recovery.



De Quervain Tenosynovitis steroid injection

History: 64-year-old woman with painful left wrist. Ultrasound scan shows swelling of the abductor pollicis longus and the extensor pollicis brevis tendons with hyper vascularity changes. Injection of betamethasone.

Result: Less pain and swelling and improvement of thumb range of motion and use of the wrist joint.

