

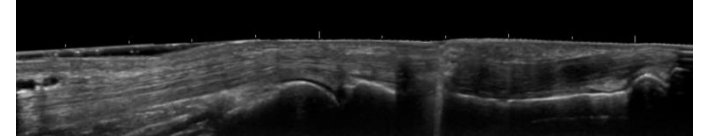
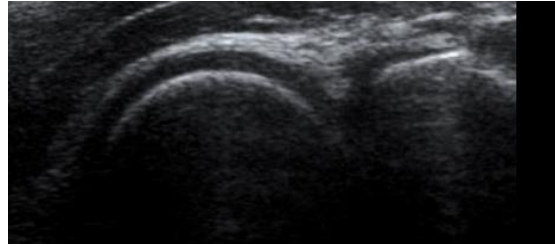
Ecografía de hombro : diagnóstico ecográfico de la patología básica de hombro.

Dra Almudena Roman Dra Pilar Martin-Carrillo Dr Carlos Acebes

C. Villalba. 8-Noviembre-2017

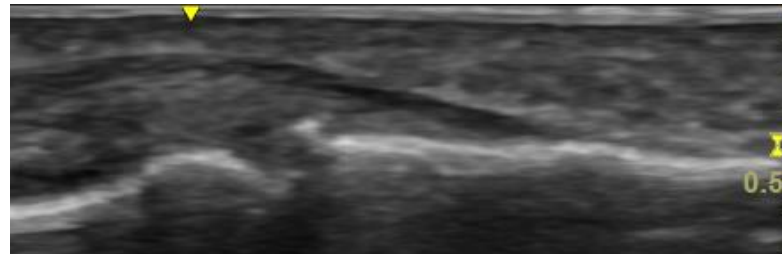
Ecografía de rodilla: papel de la ecografía en el diagnóstico diferencial de la gonalgia en Atención Primaria

Sondas **lineales**

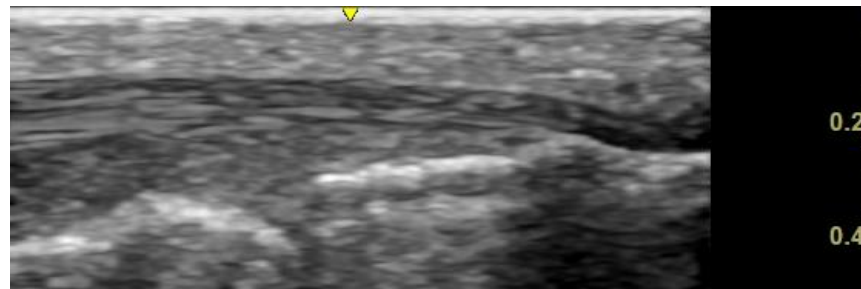


Sondas **alta frecuencia**

8-12 Mhz



10-22 MHz

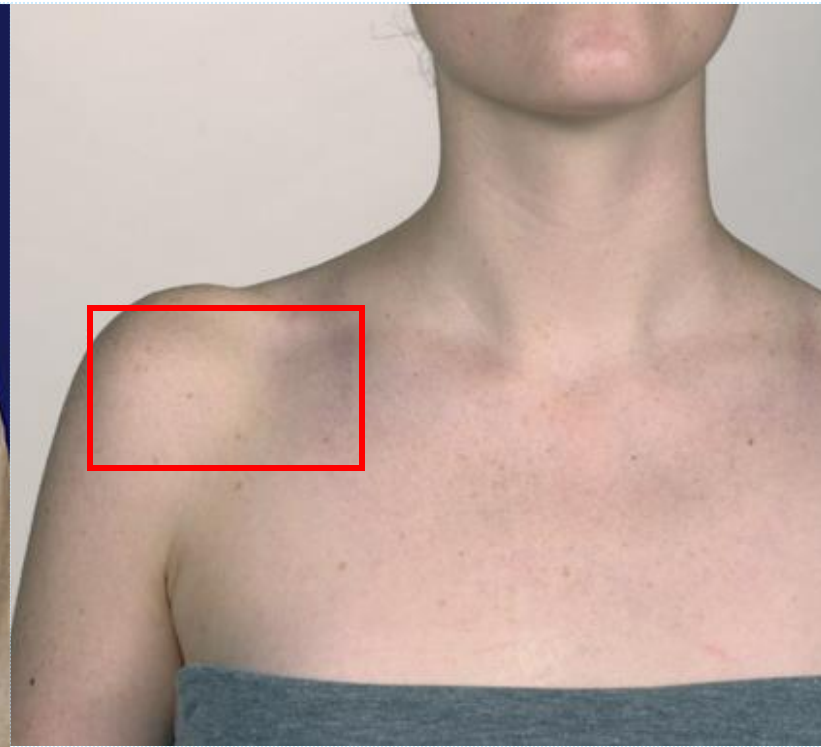
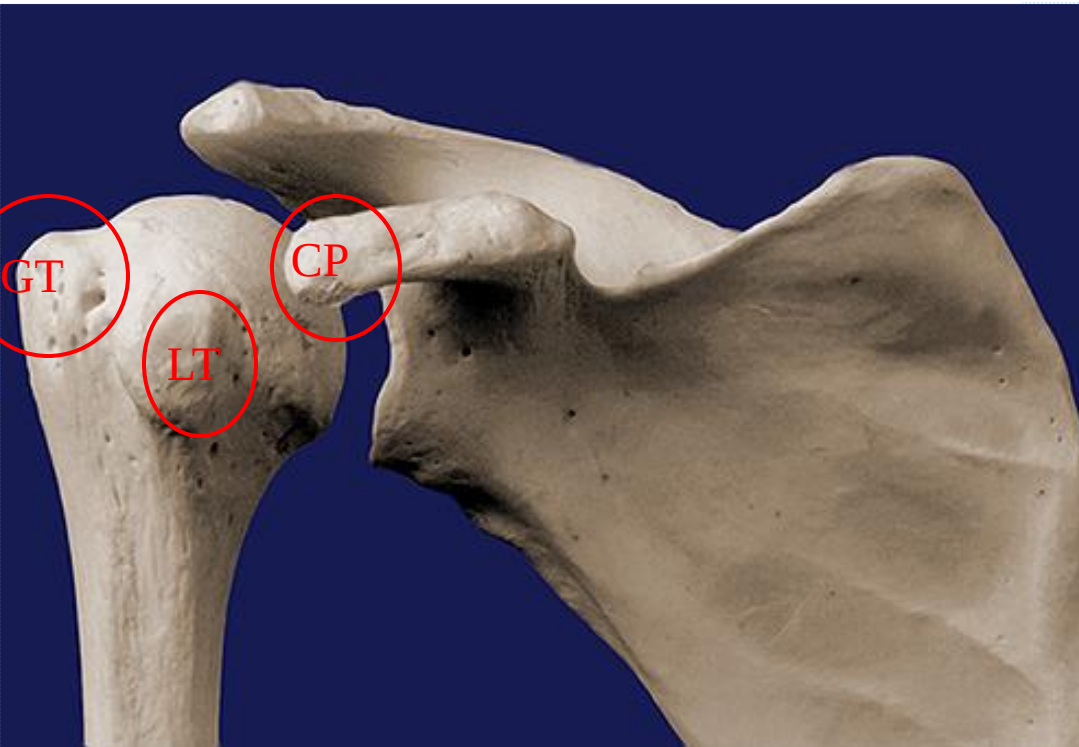


!!!!!!!Alta frecuencia: baja penetración de los US pero mas resolución!!!!!!.

Regiones anatómicas del hombro para la exploración ecográfica

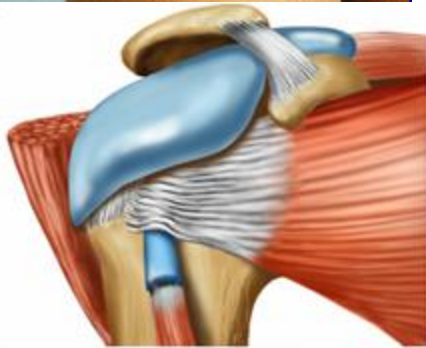
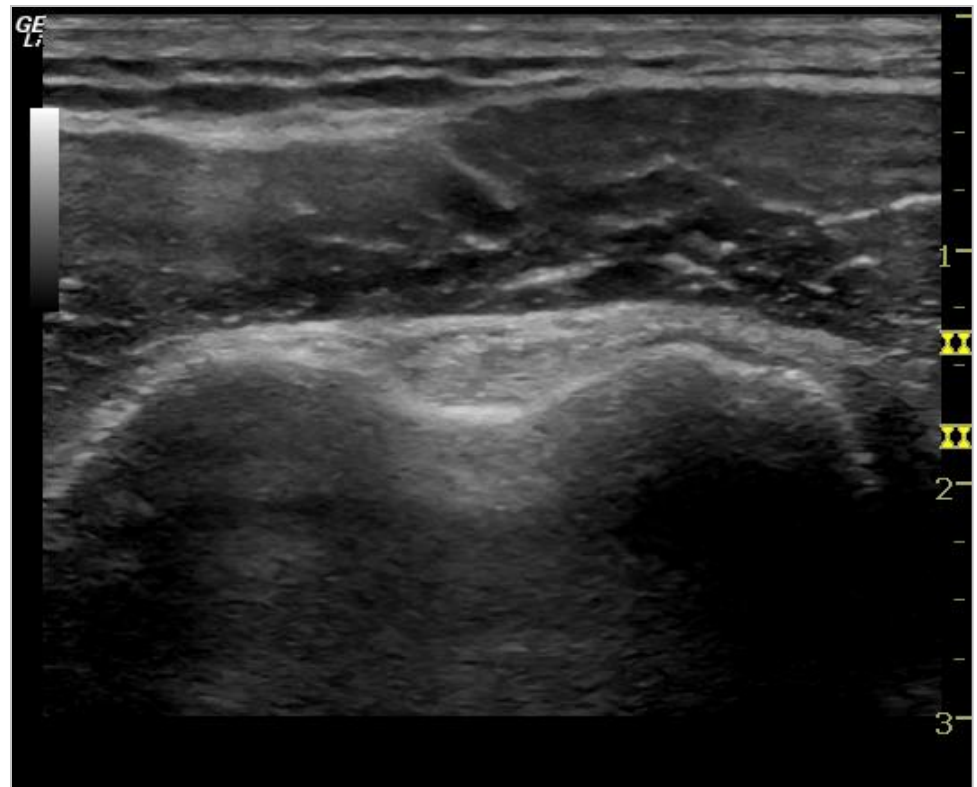
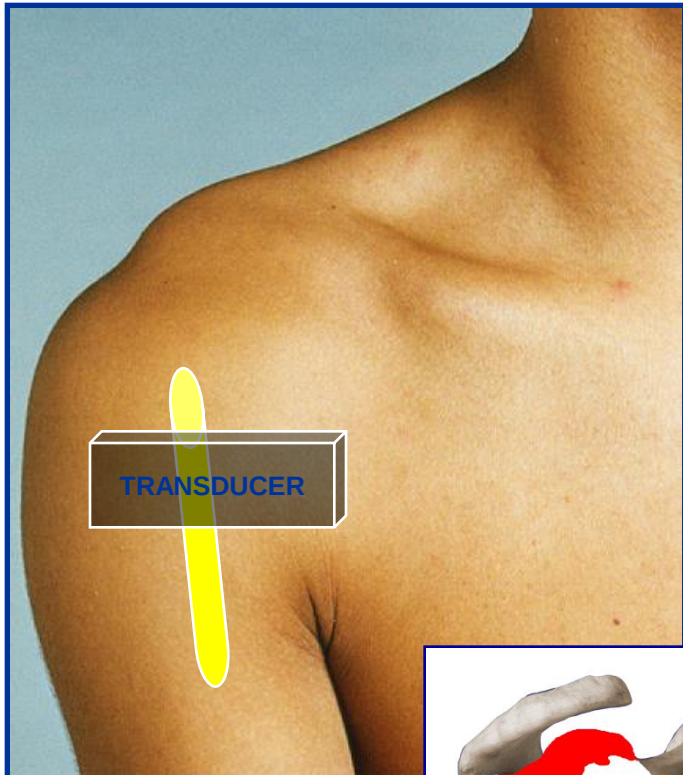
- **Anterior**
- **Superior**
- **Antero-Lateral**
- **Posterior**

ANTERIOR

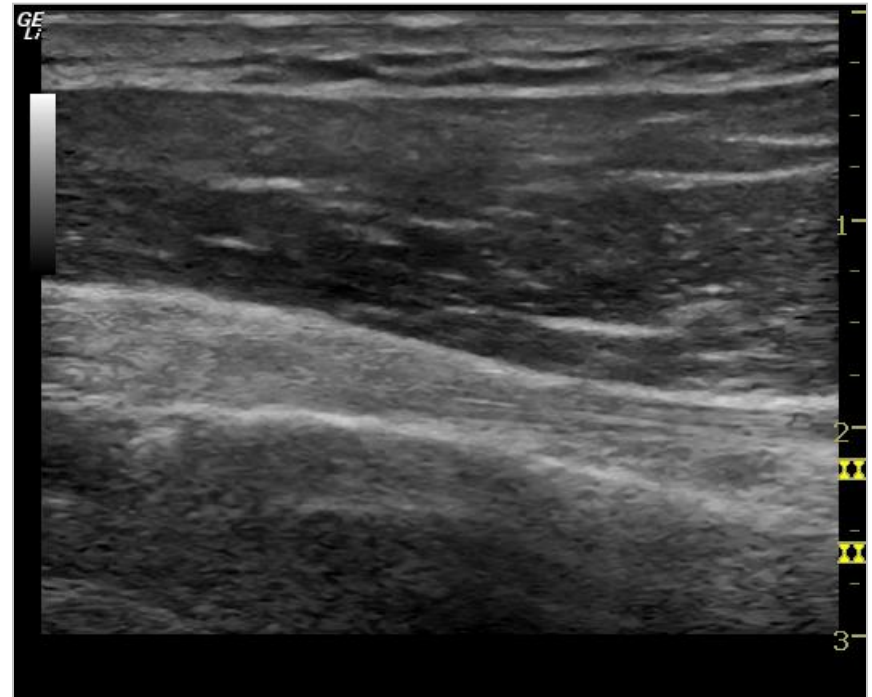
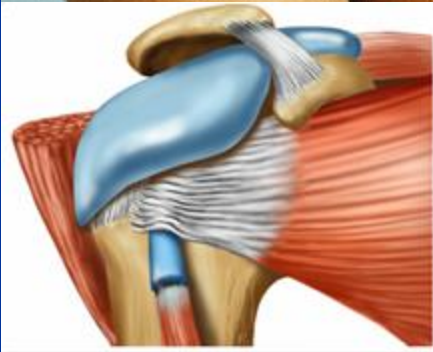
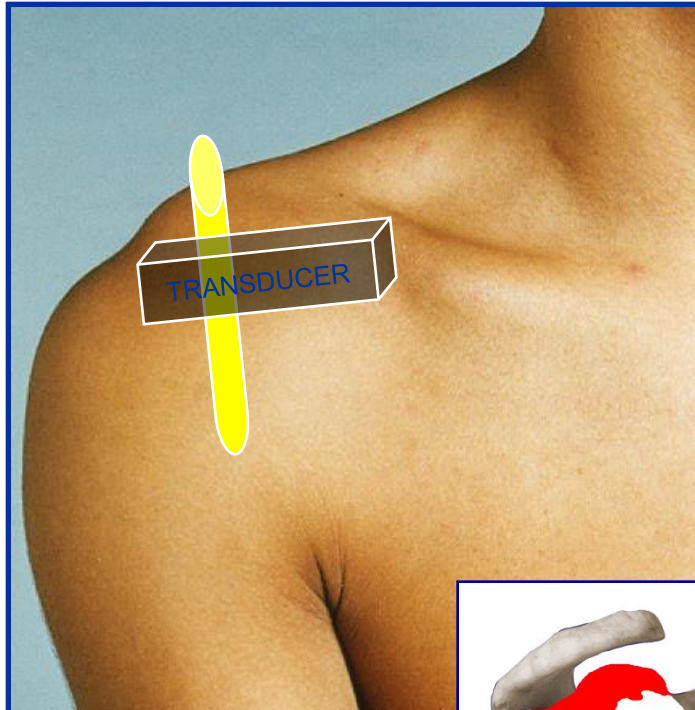


Biceps tendon :

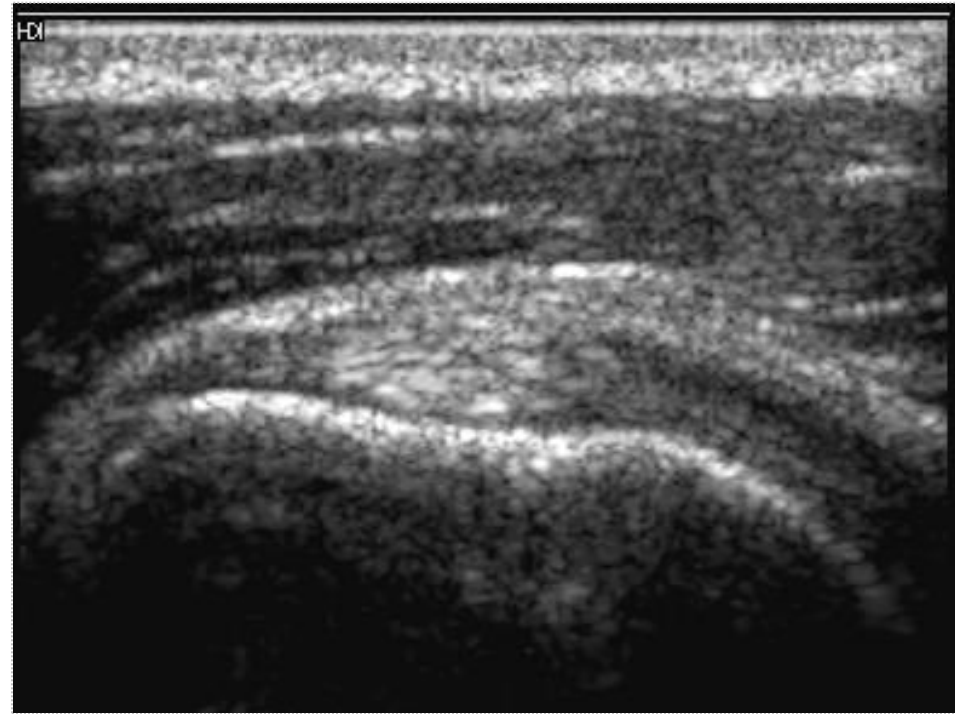
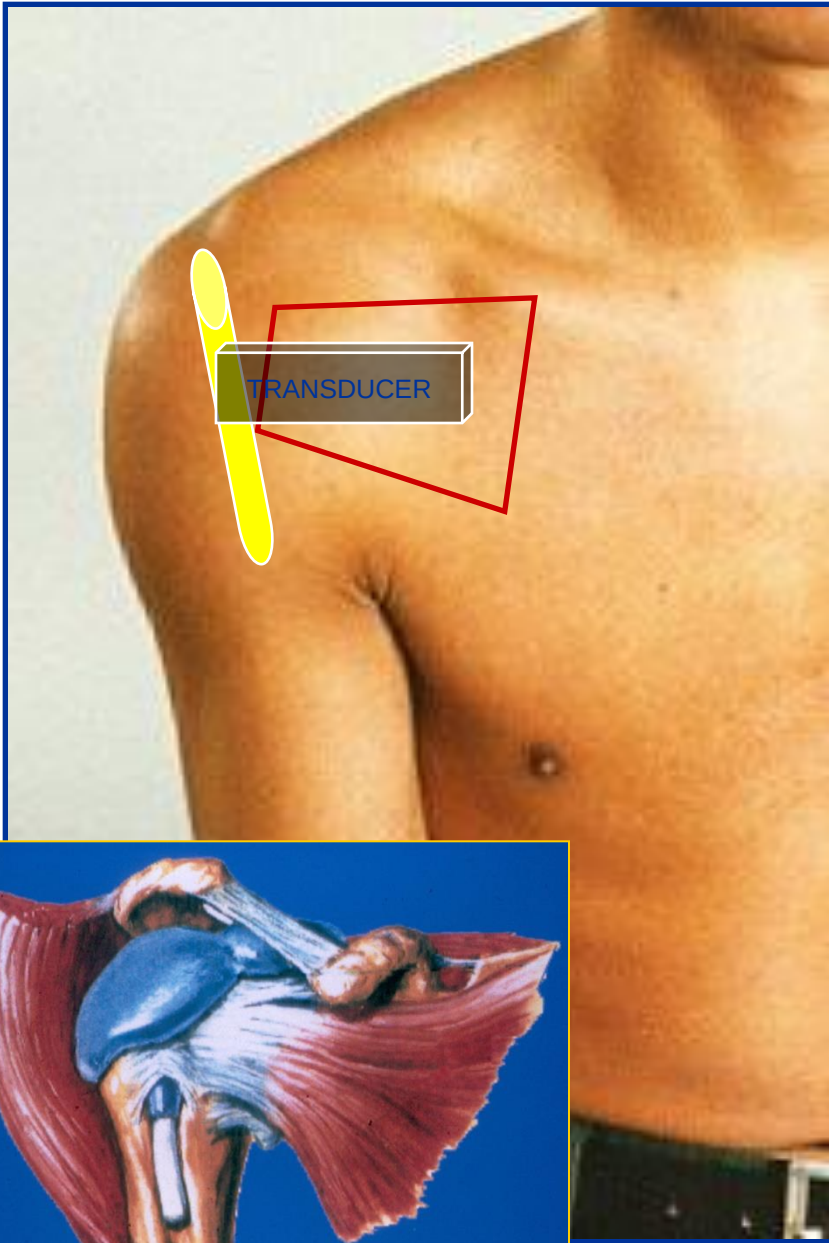
Transversal



Biceps tendon: *Longitudinal*



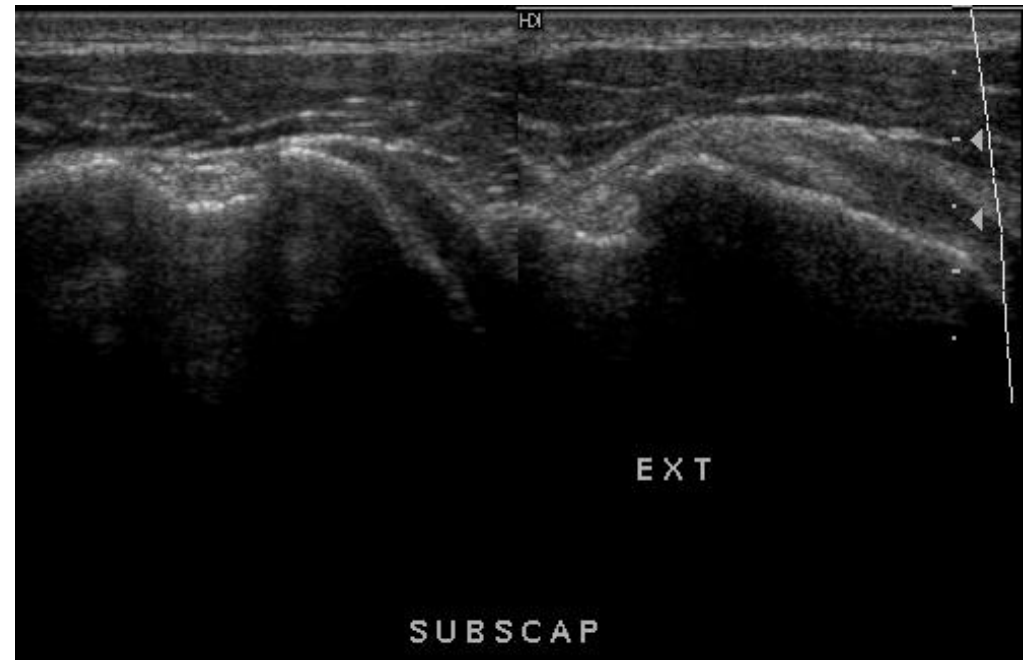
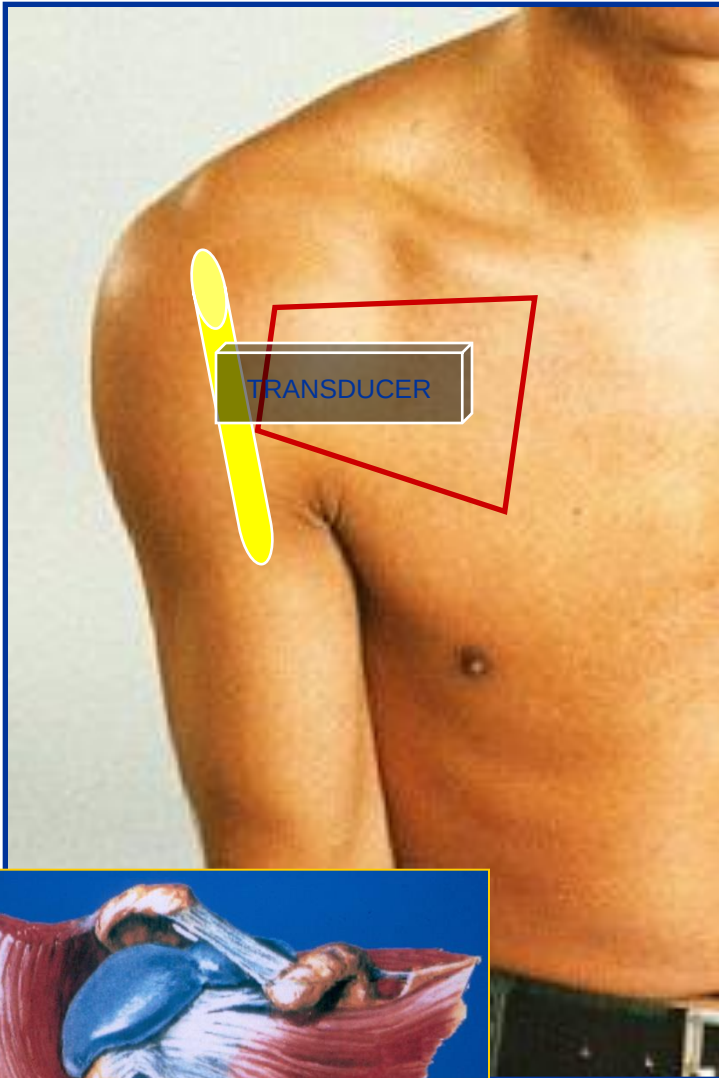
Subscapular tendon: *Longitudinal*



Estudio dinámico en rotación
externa

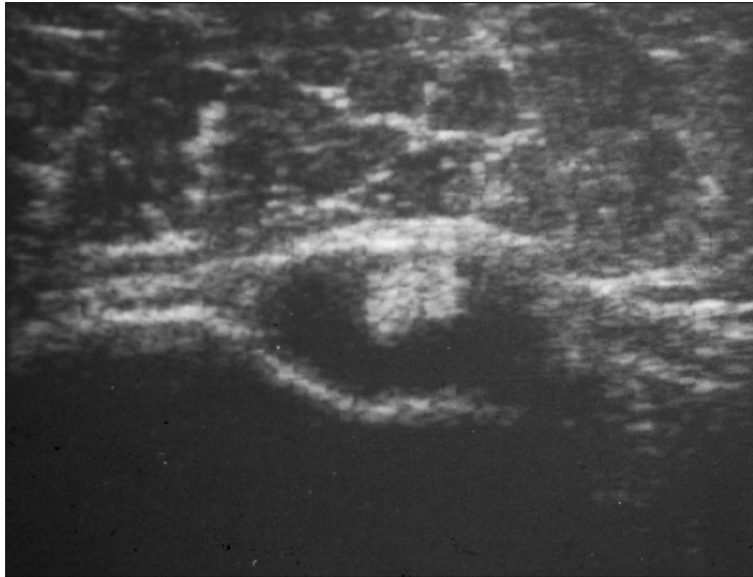
Subscapular tendon:

Longitudinal

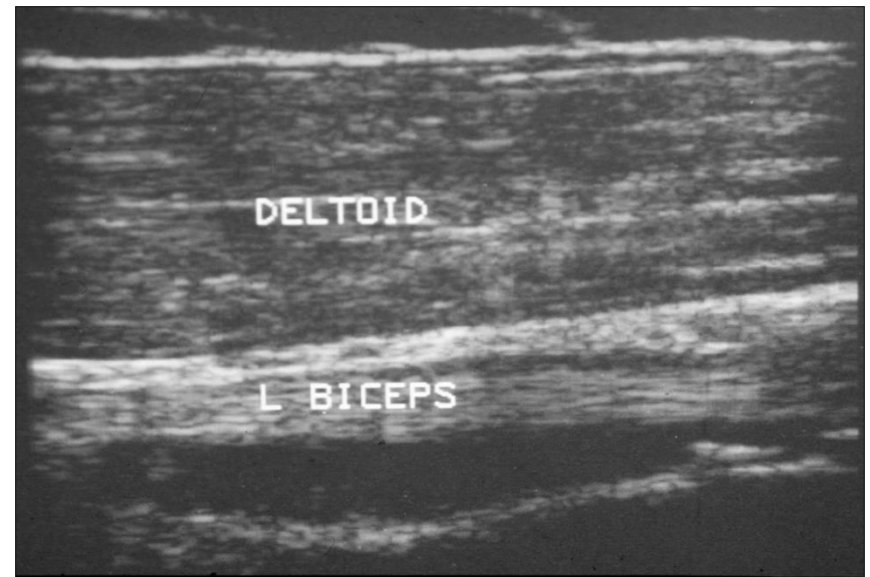


Estudio dinámico en rotación
externa

Derrame sinovial en la corredera bicipital.

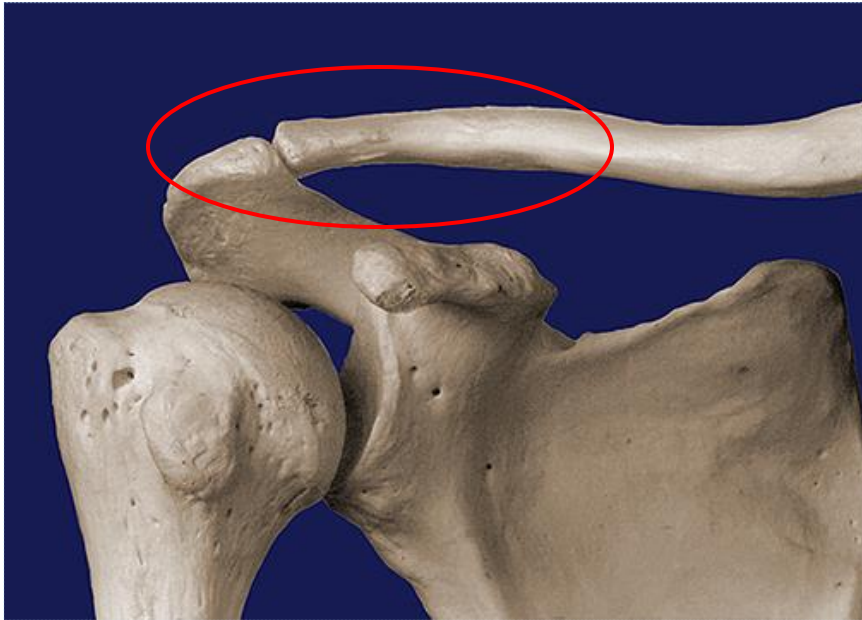


Transversal

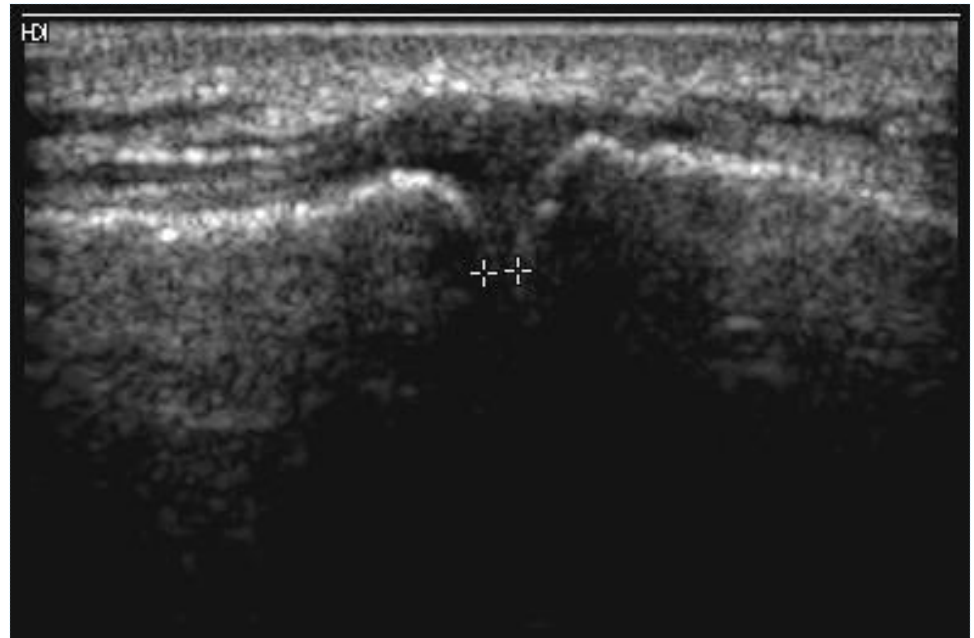
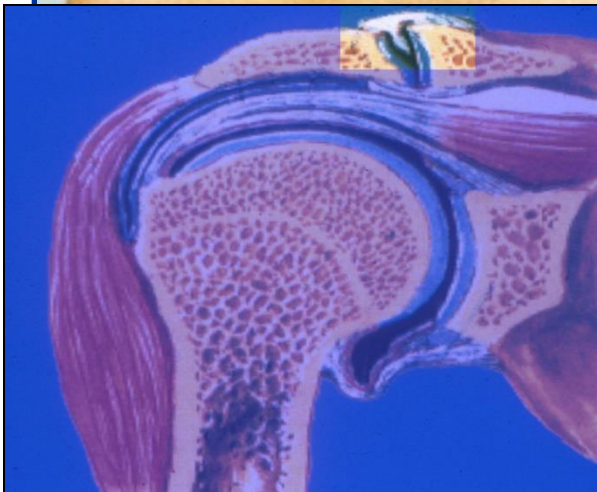
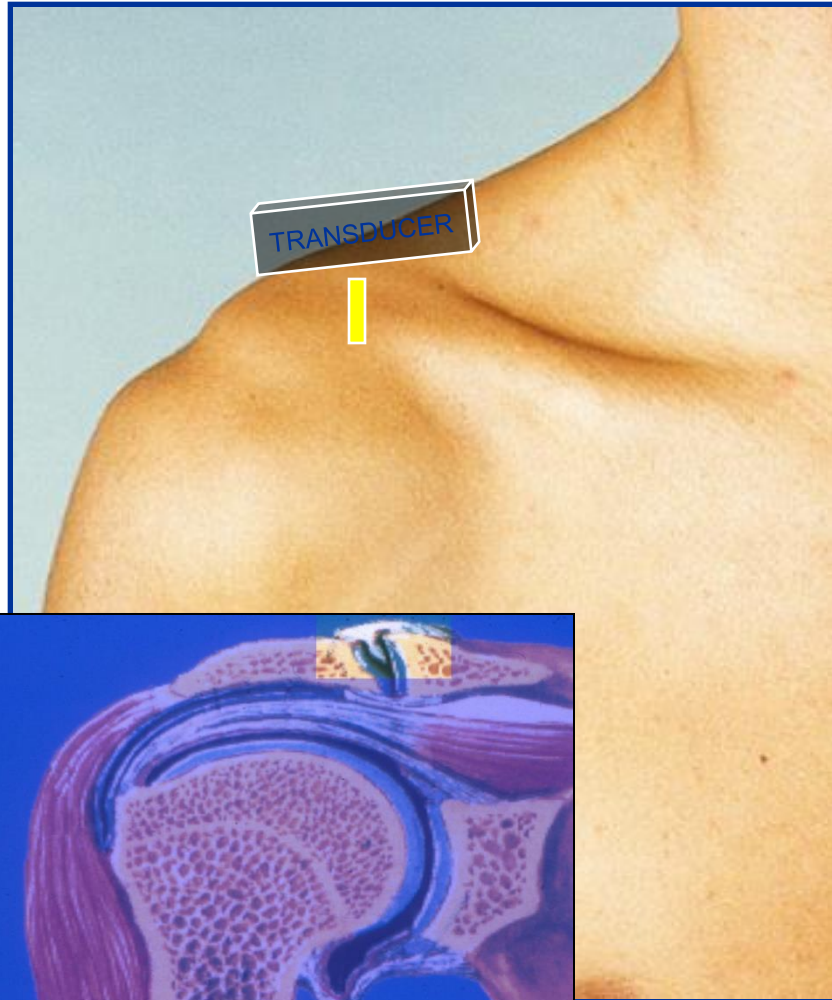


Longitudinal

SUPERIOR

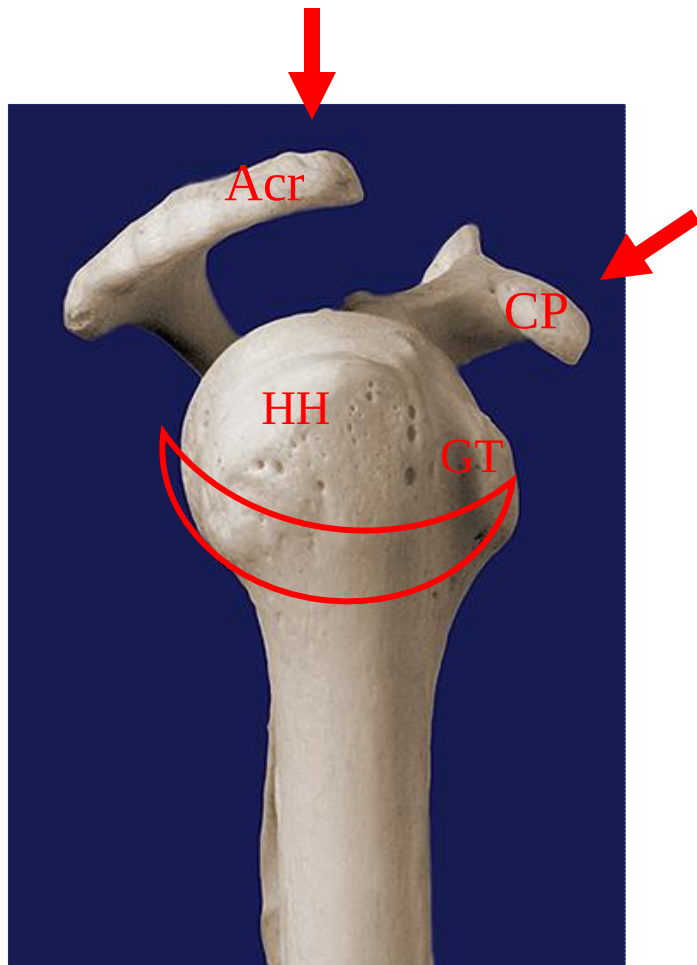


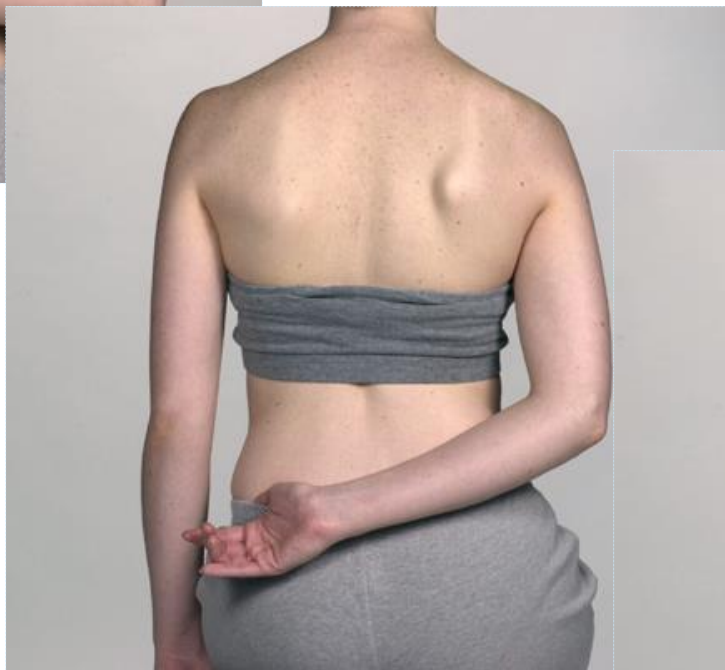
ART. ACROMIO-CLAVICULAR



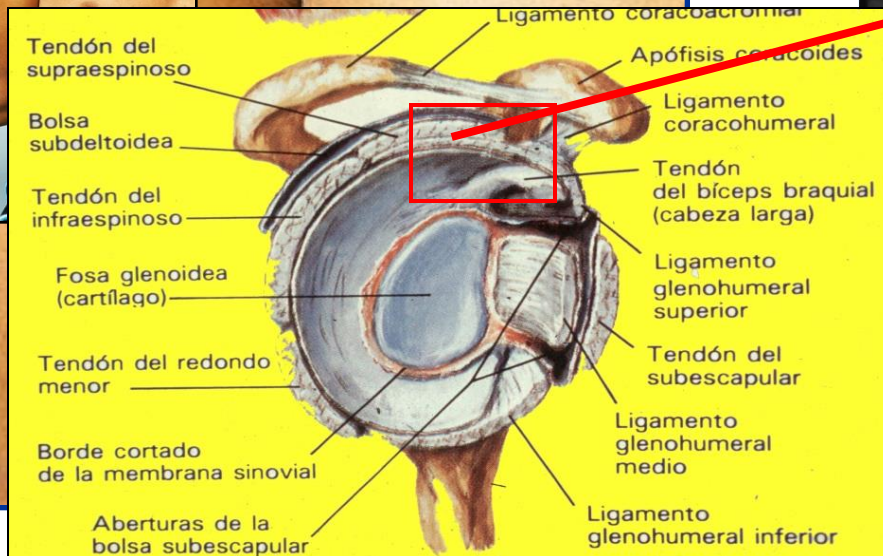
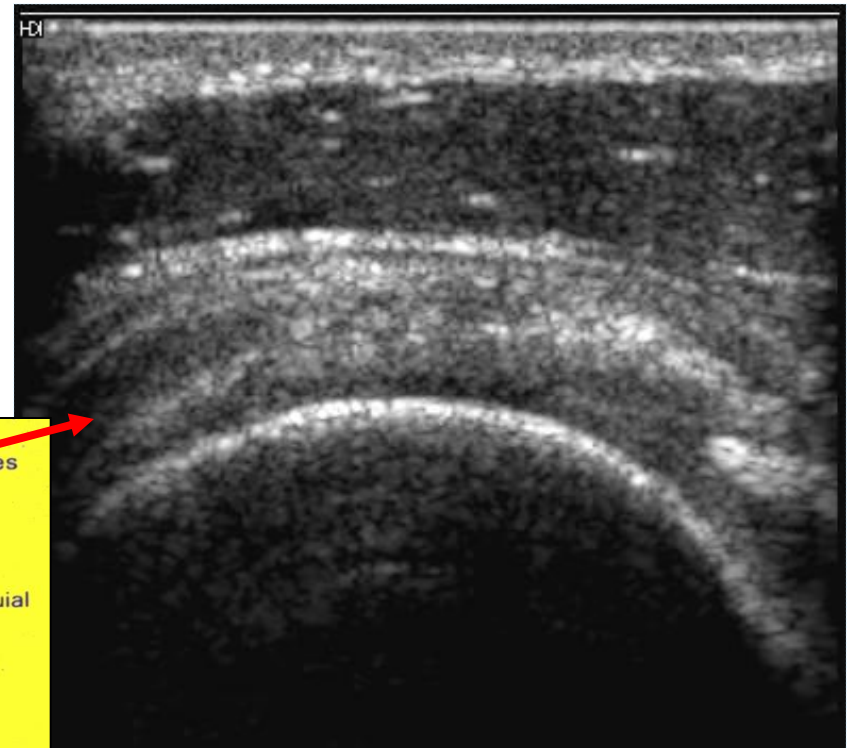
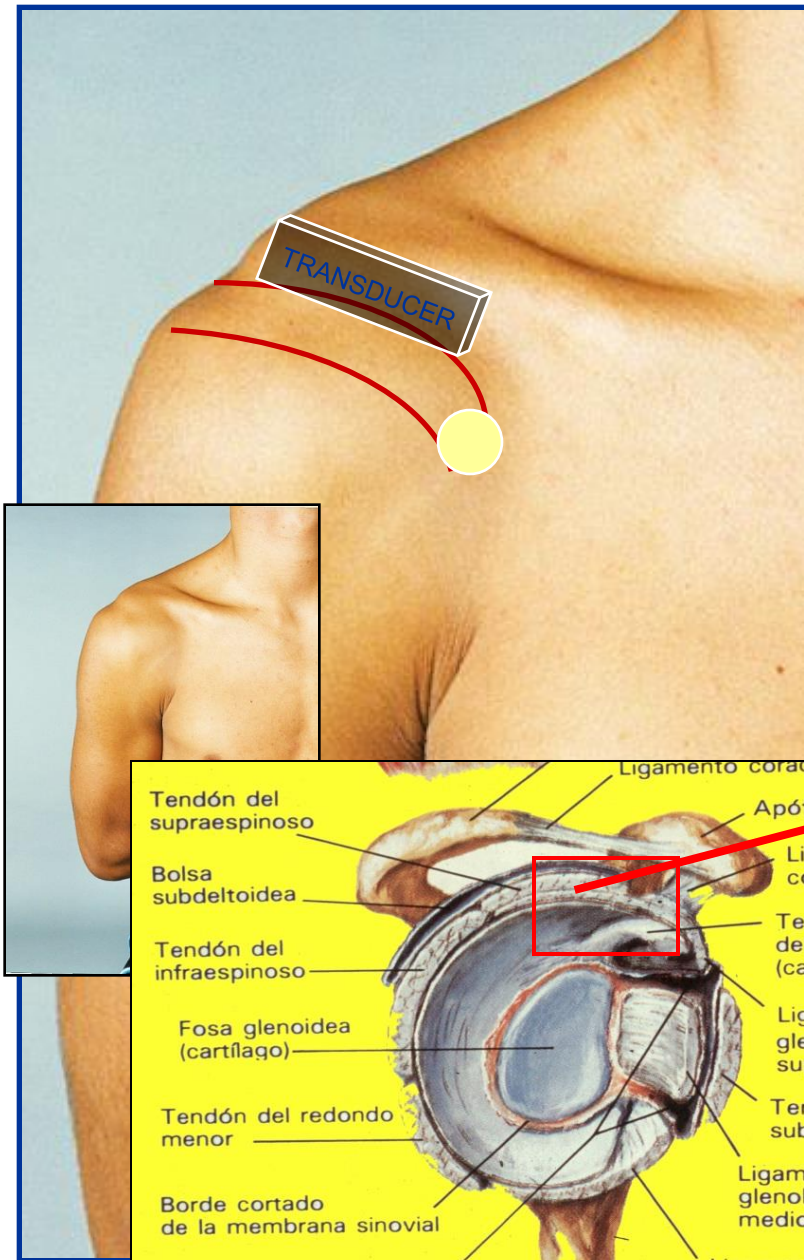
Longitudinal

ANTERO-LATERAL

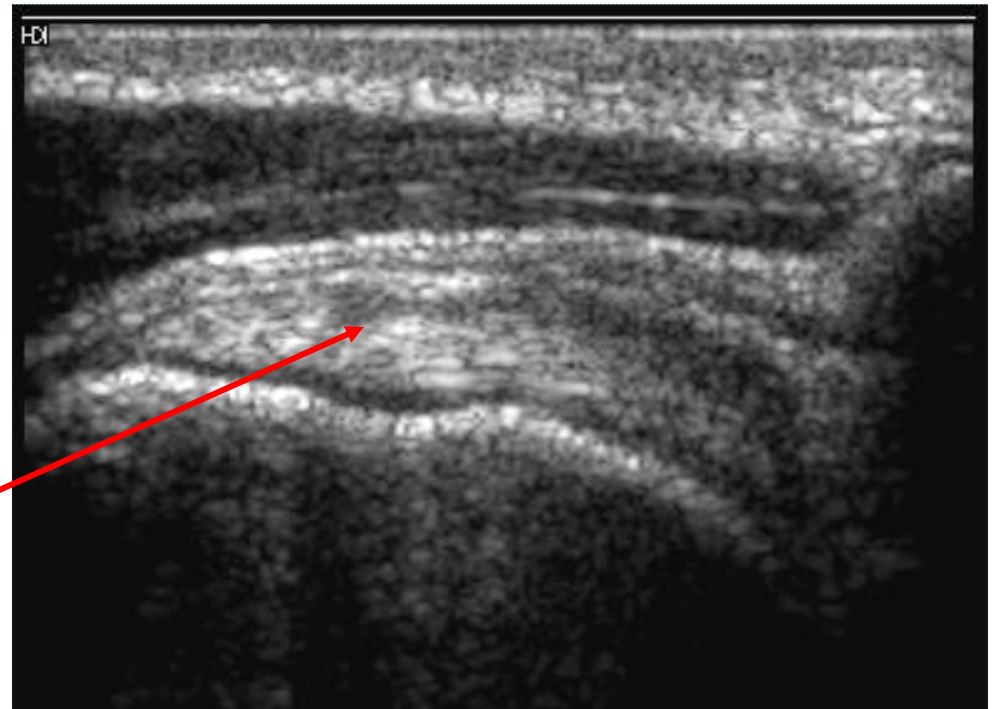
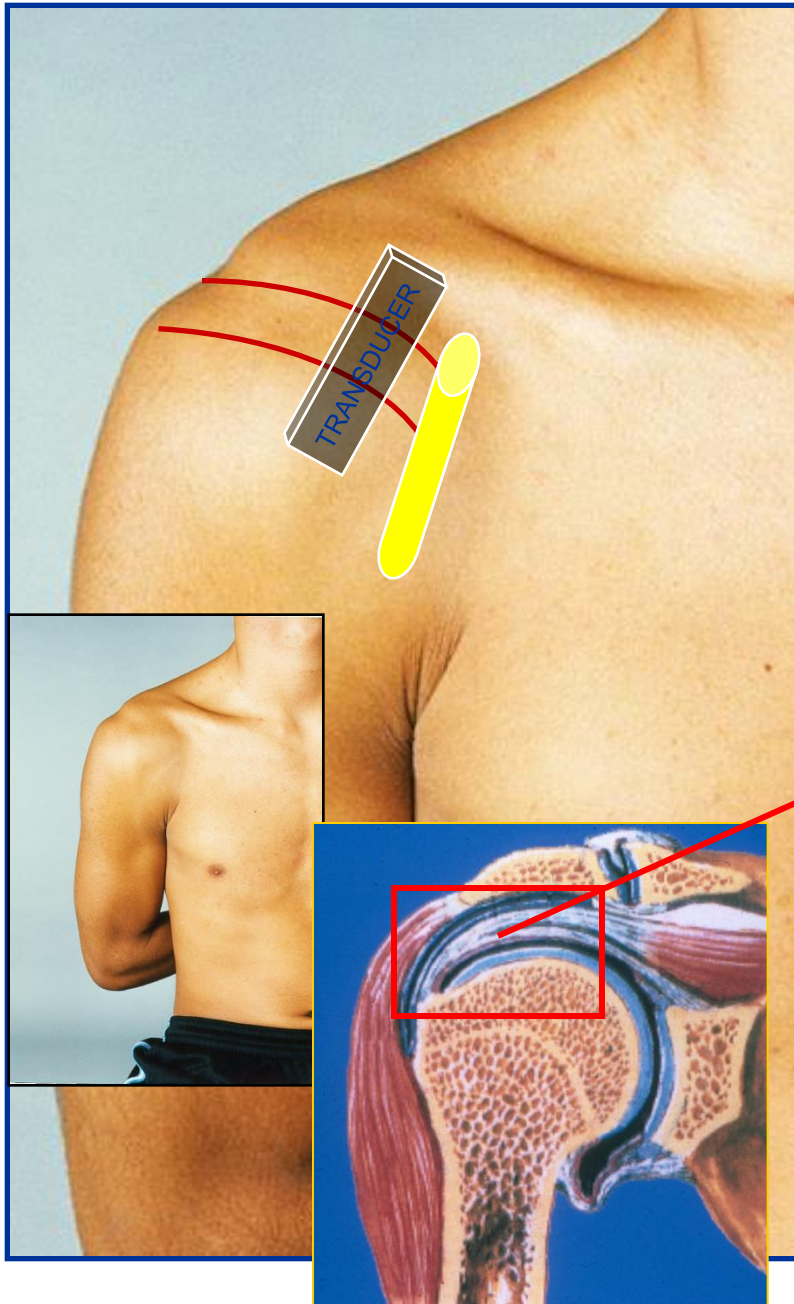




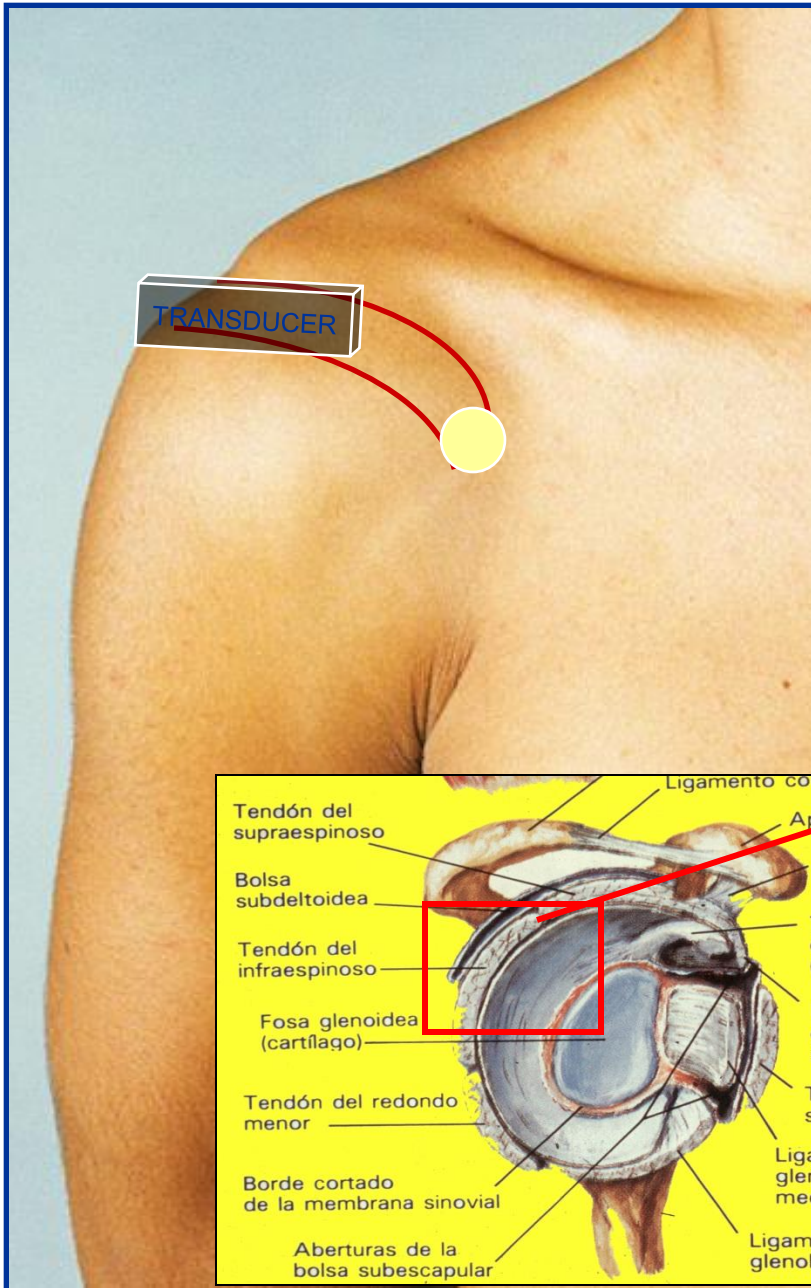
Tendon Supraespinoso: *Transversal*



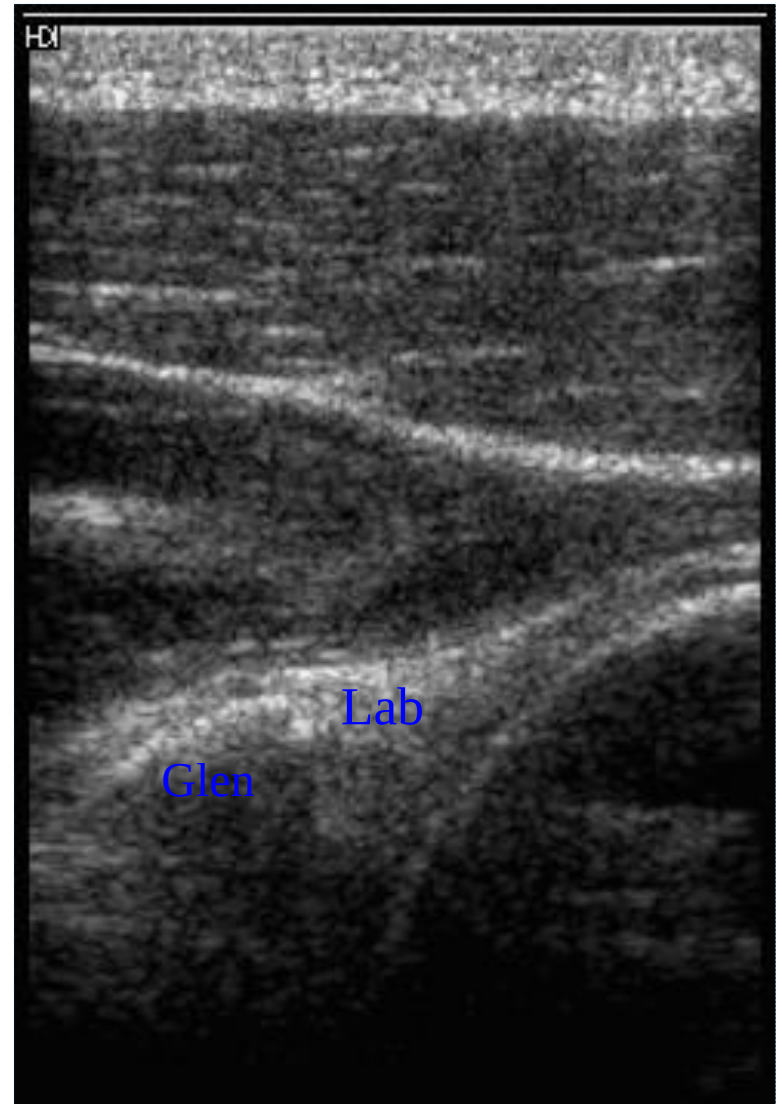
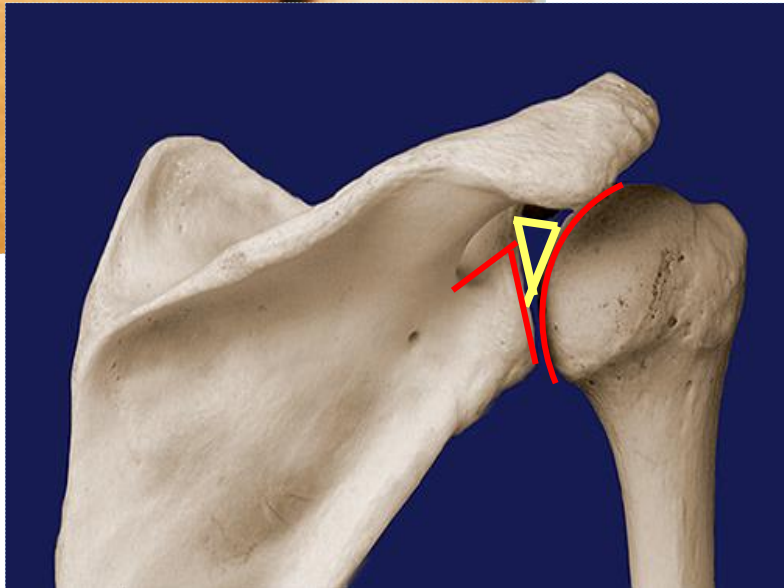
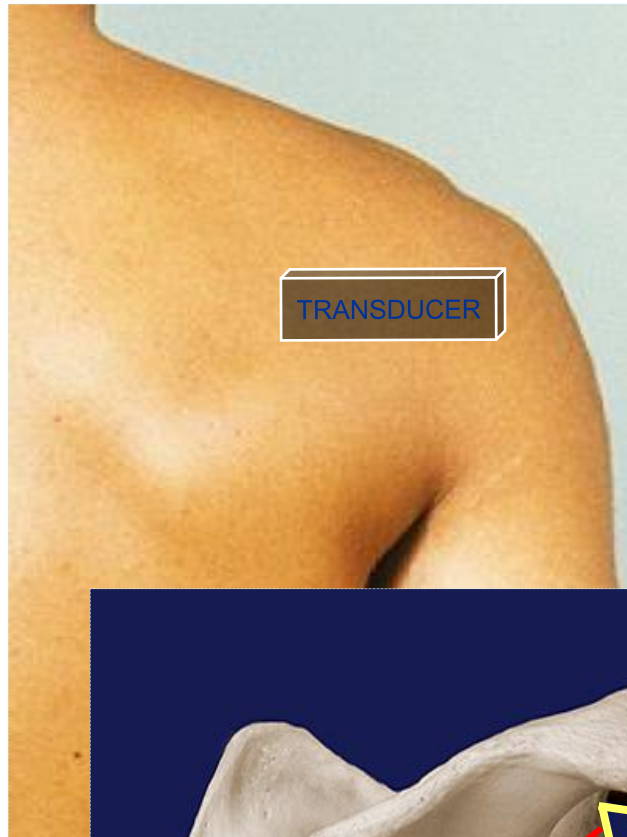
Tendon Supraespinoso: *Longitudinal*



Tendon Infraespinoso *Transversal*



POSTERIOR





Patologia Basica

- **Roturas tendinosas**
 - **Completas**
 - **Parciales**
- Tendinosis
- Calcium deposit Tendinitis
- Effusion-synovitis
- OA vs RA
- Sub-acromial impingement

Roturas parciales

➤ BURSAL O ACROMIAL

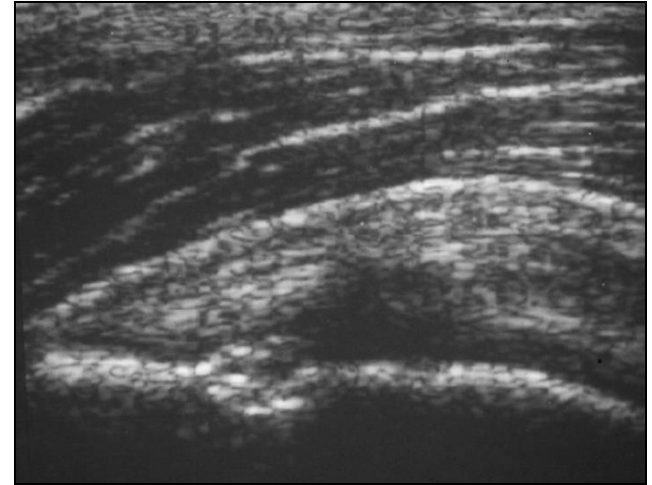
- Perdida de la convexidad superior



Rotura parcial

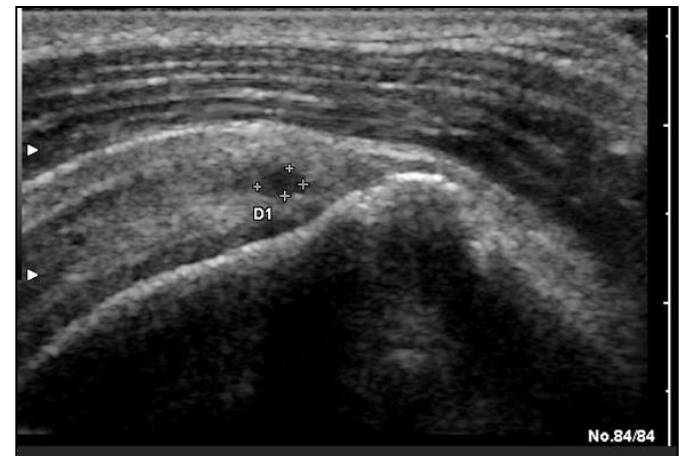
➤ HUMERAL O ARTICULAR

- Defecto Tendinoso (hipoecoico o anecoico) asociado a irregularidades corticales locales.



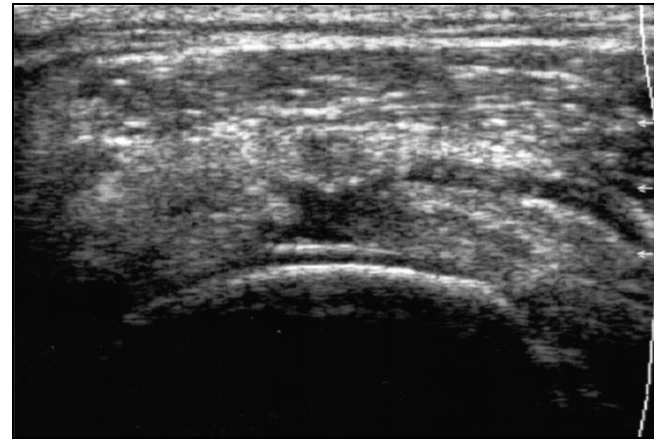
➤ INTRASUSTANCIA O INTRATENDINOSO

- Defecto tendinoso focal (hipo o anecoico) con pérdida del patrón fibrilar tendinoso.



Rotura completa

- **Defecto tendinoso de espesor completo (anecdótico o hipoecoico)**
- Communication (effusion) between gleno-humeral joint-subacromial bursa.
- Deltoid muscle hernia inside the tendon
- Tendon: no-presence



Short axis



Long axis

Rotura completa

- Full thickness anechoic or hypoechoic tendón defect
- **Comunicación (derrame) entre la articulación gleno-humeral y la bursa subacromial.**
- Deltoid muscle hernia inside the tendon
- Tendon no-presence



Short axis



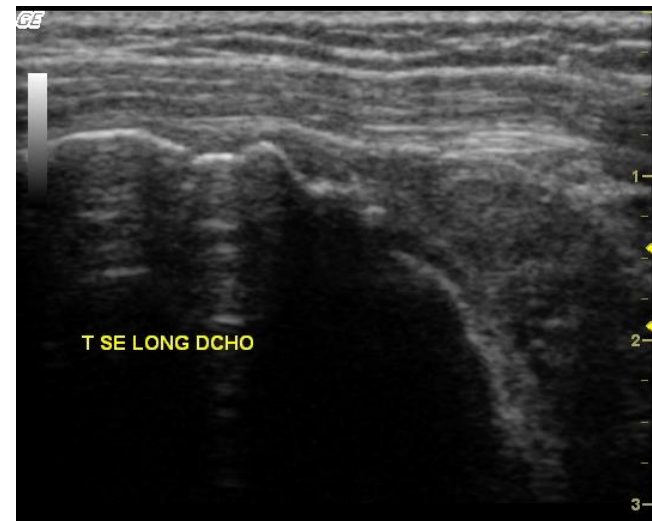
Long axis

Rotura completa masiva

- **Ausencia del tendón con retracción.**

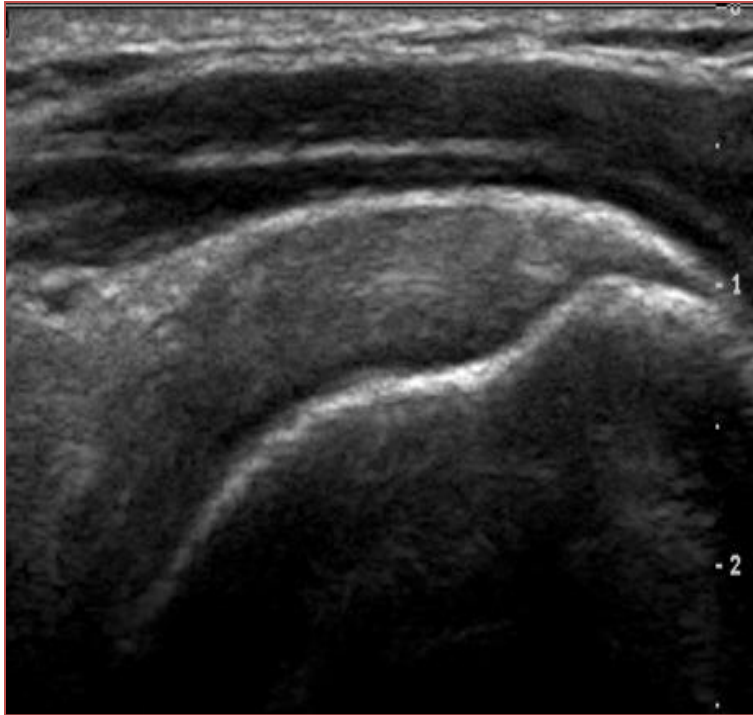


Transversal

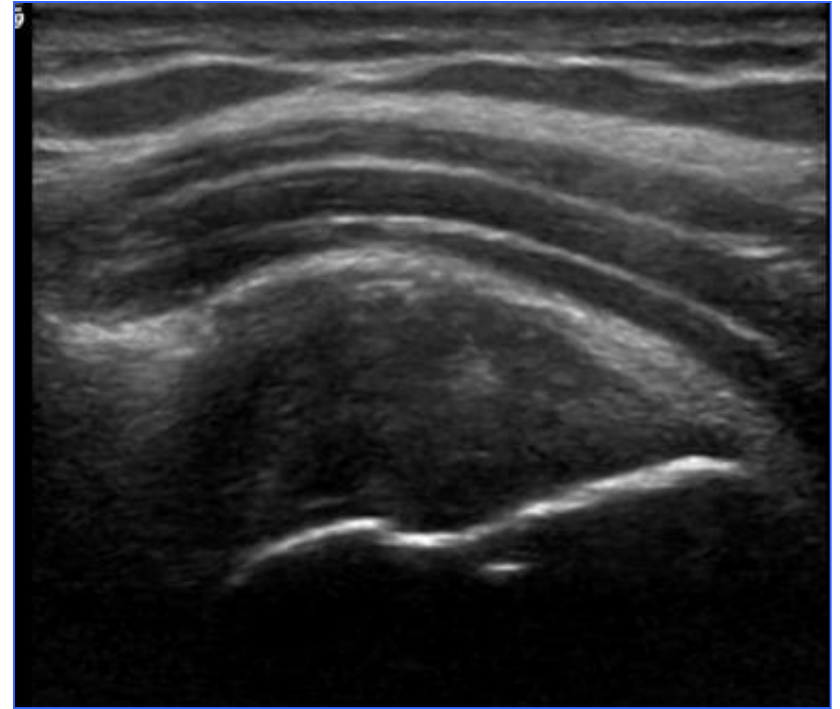


Longitudinal

TENDINOSIS DEL SUPRAESPINOZO

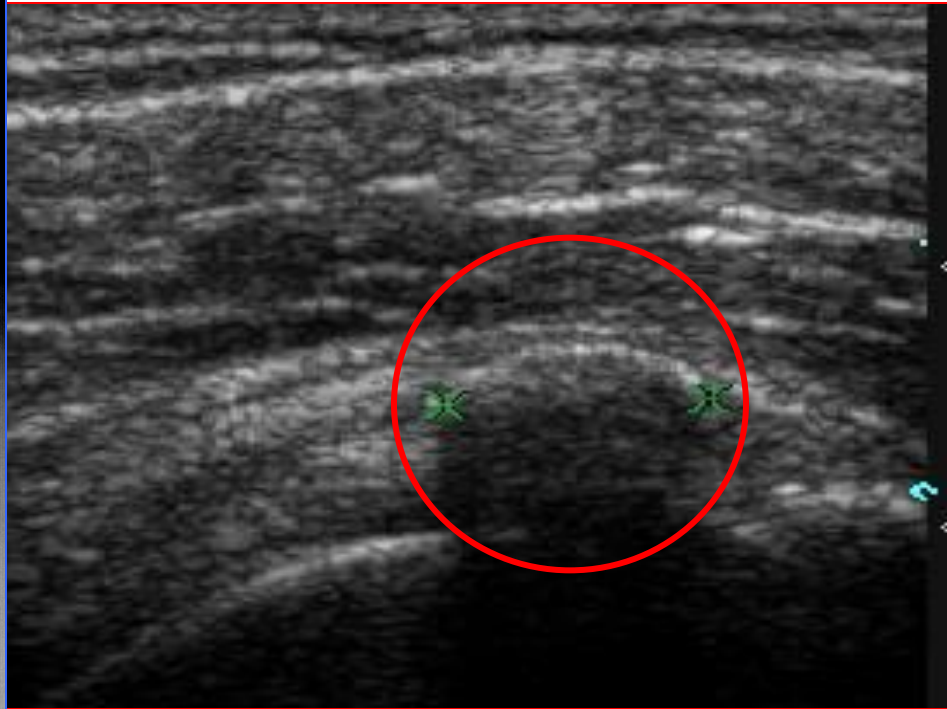
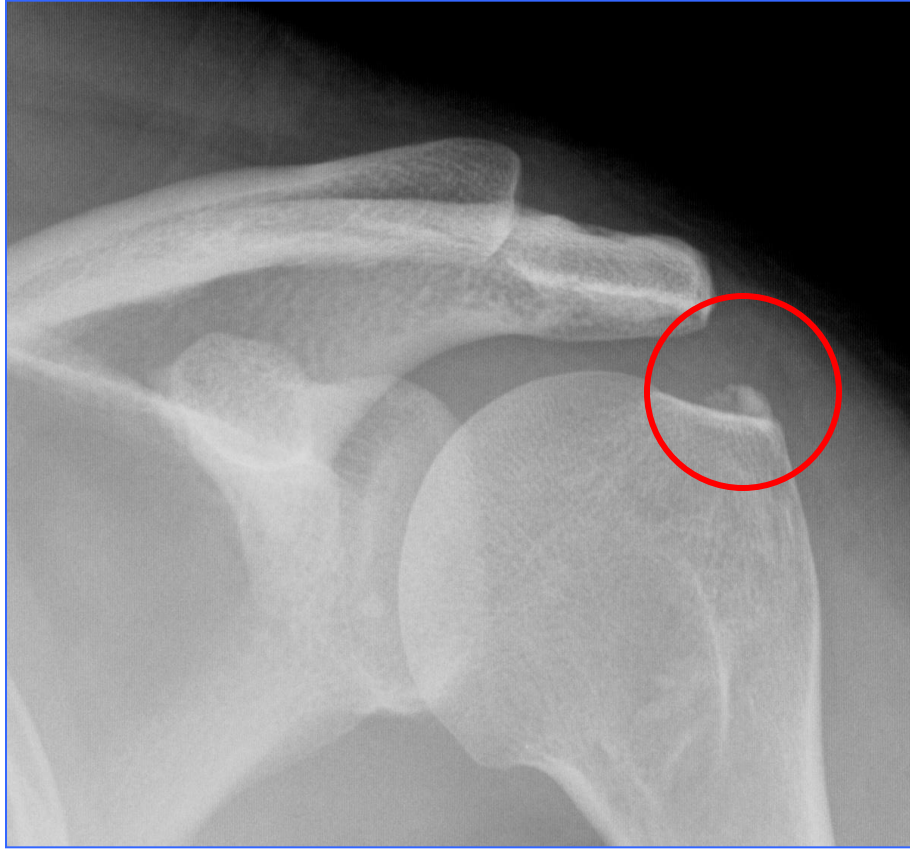


Asintomático

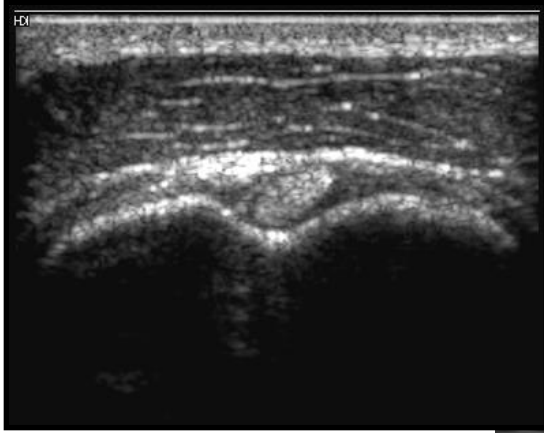


Dolor

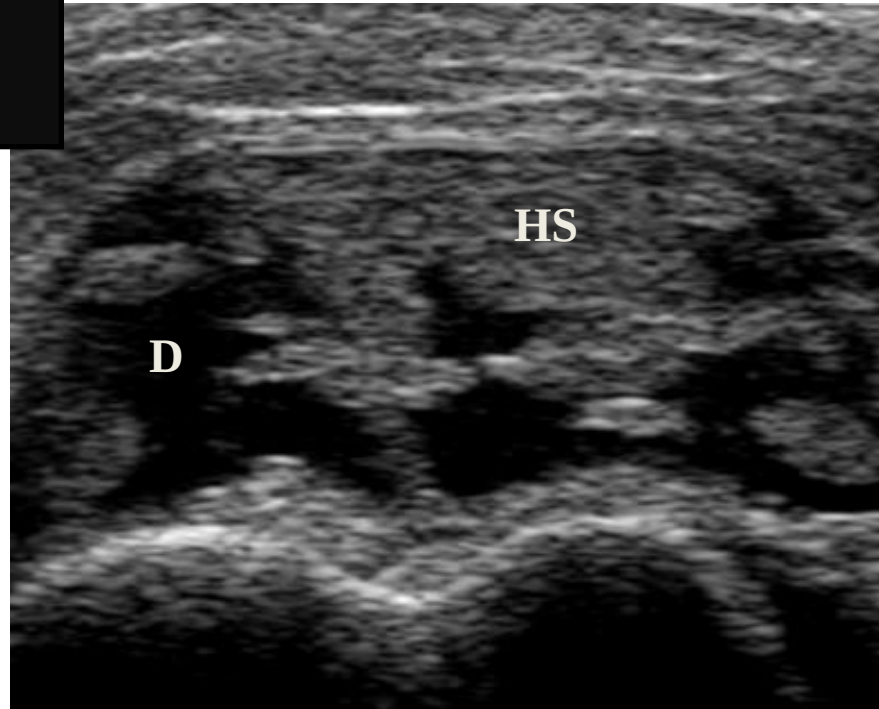
TENDINITIS CALCIFICANTE



Bursitis subacromial



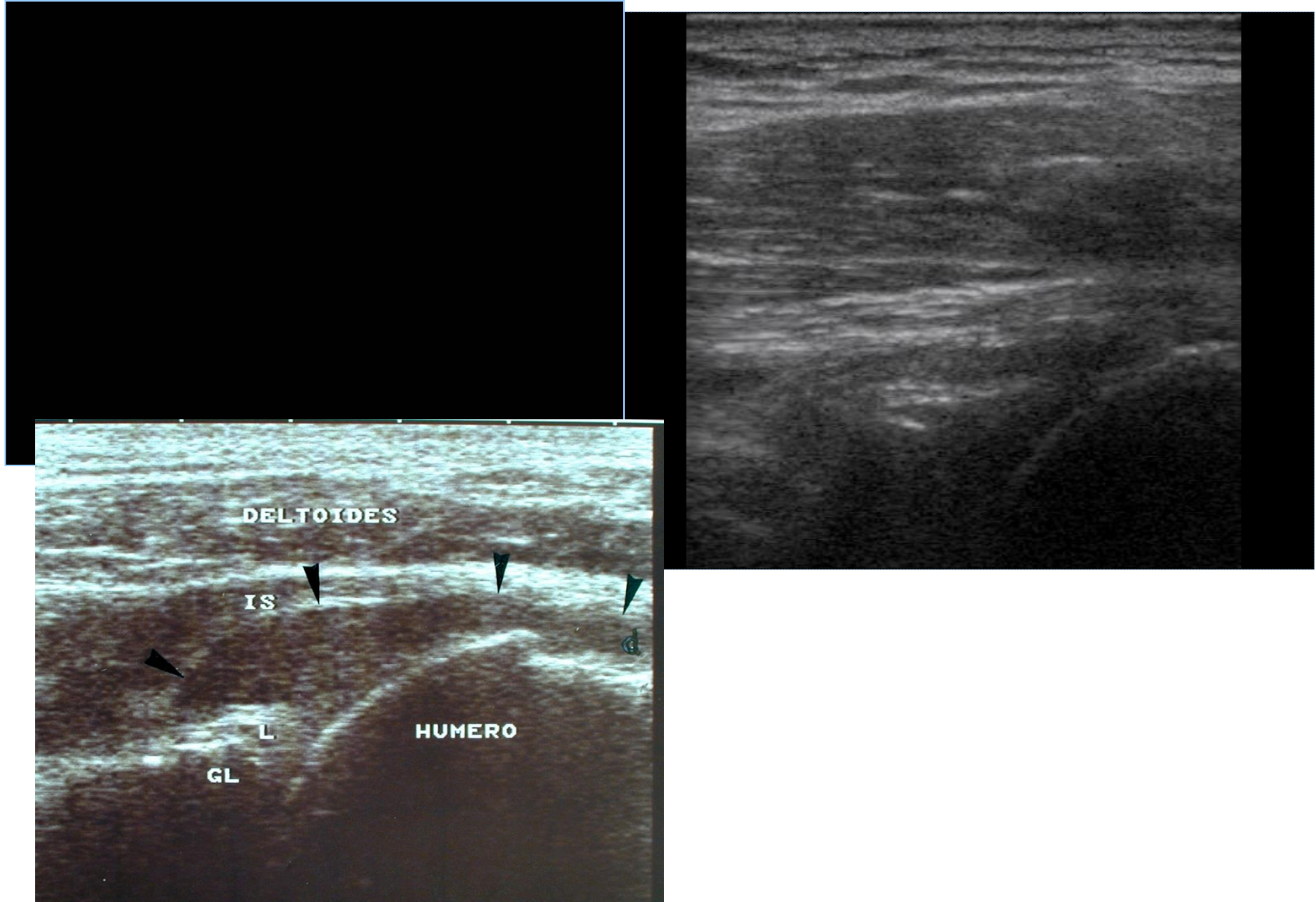
Normal



Se aprecia claramente en esta bursitis el derrame de la importante hipertrofia sinovial

Derrame sinovial

(Articulación gleno-humeral)



El papel de la ecografía en el diagnóstico diferencial de la gonalgia en Atención Primaria



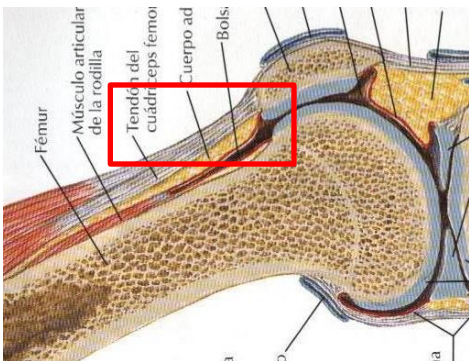
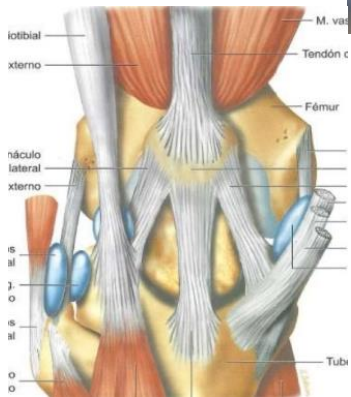
- Artritis (sinovitis)
- Tendinopatía del T Cuadriceps
- Bursitis
- Tendinopatía del T Rotuliano
- Artritis microcristalina:
 - Gota
 - Pirofosfato
- Artrosis
- Quiste de Baker

El papel de la ecografía en el diagnóstico diferencial de la gonalgia en Atención Primaria



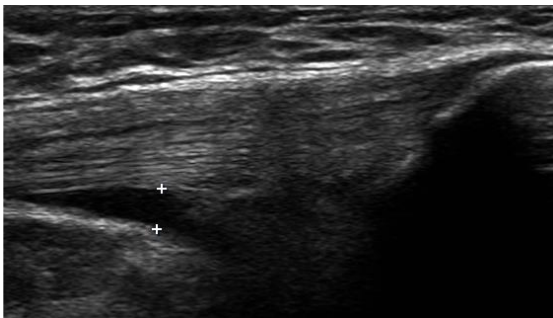
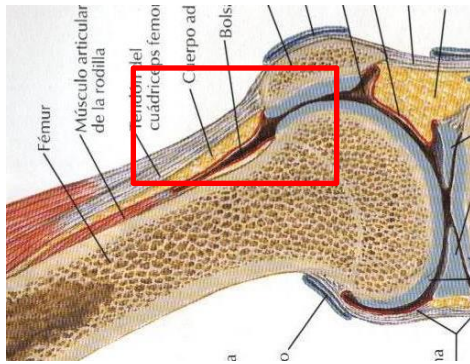
- Artritis (sinovitis)
- Tendinopatía del T Cuadriceps
- Bursitis
- Tendinopatía del T Rotuliano
- Artritis microcristalina:
 - Gota
 - Pirofosfato
- Artrosis
- Quiste de Baker

Receso proximal

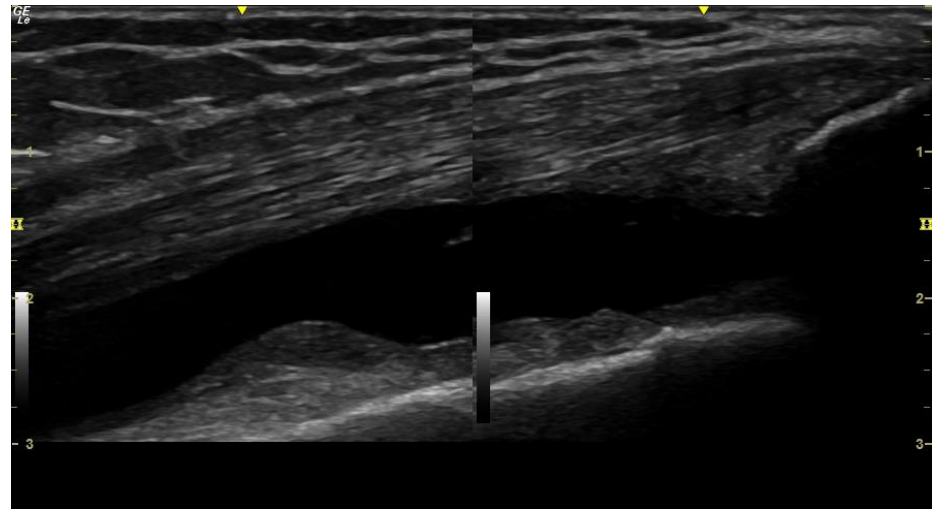


Longitudinal

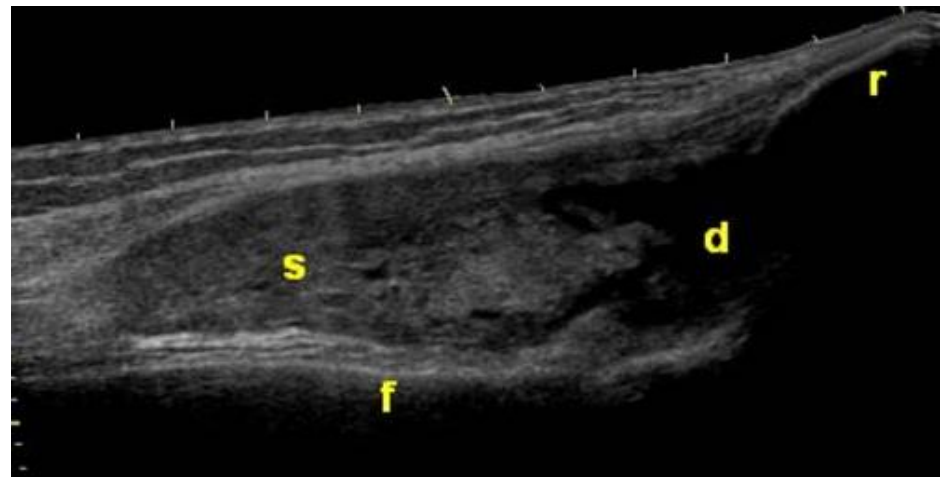
Sinovitis: Hipertrofia + Derrame sinovial



Normal

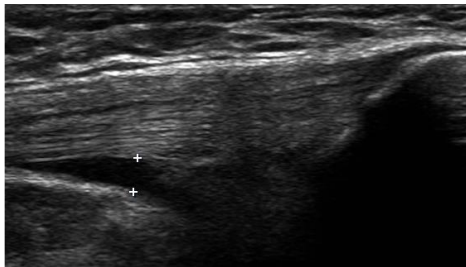
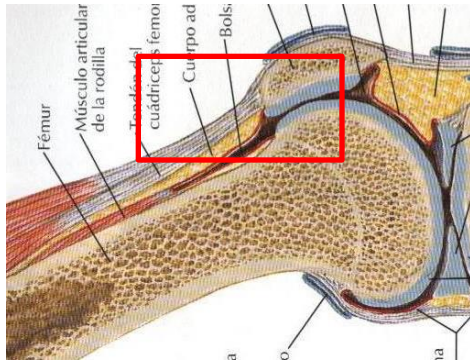


Derrame sinovial



Longitudinal Hipertrofia sinovial

DD: Derrame vs hipertrofia sinovial



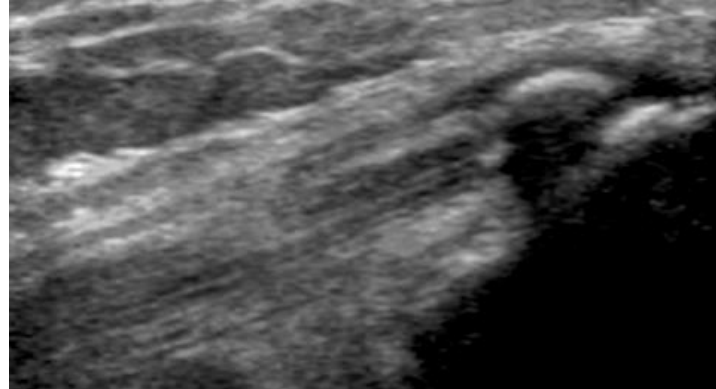
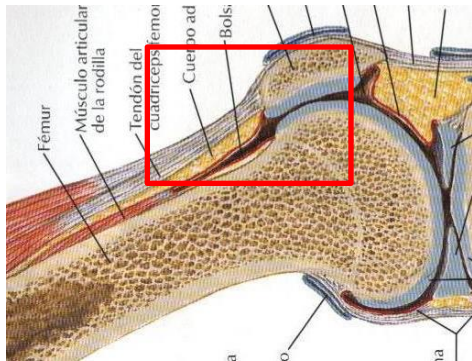
Normal

Longitudinal

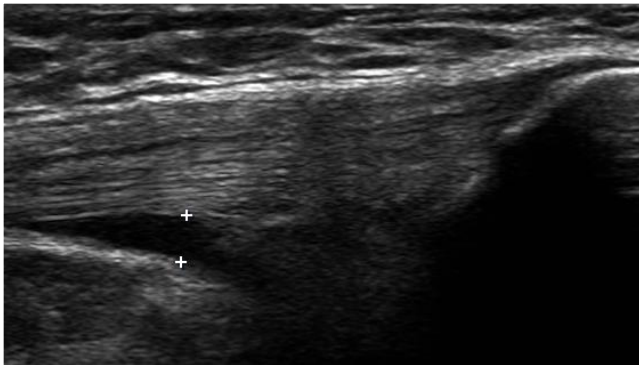
Derrame: Compresible y desplazable

Hipertrofia: Parcialmente compresible, no desplazable.

Tendinopatía cuádriceps



Entesitis calcificante



Normal



Tofo en el tendón del cuádriceps

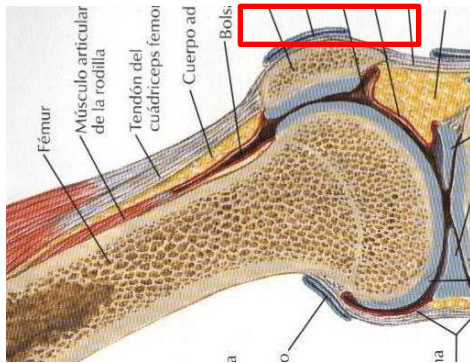
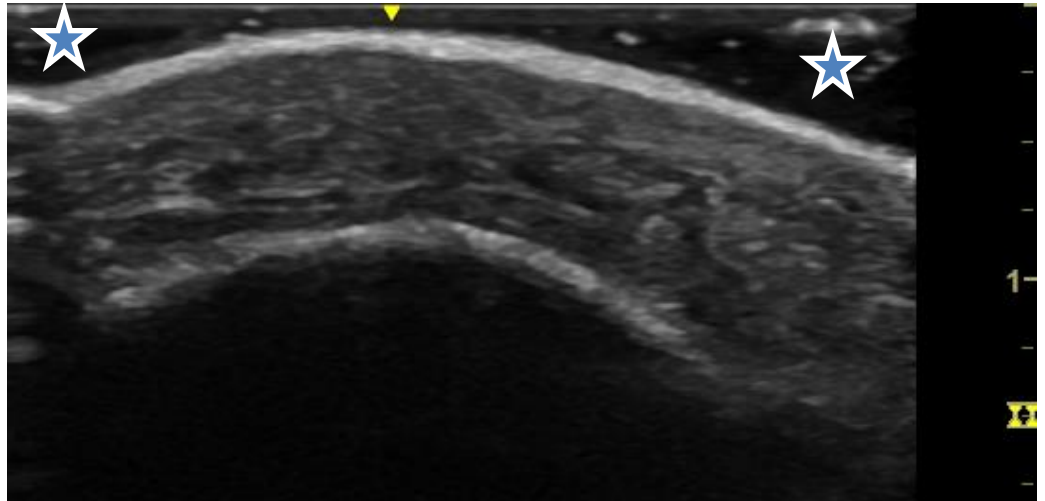
Longitudinal

El papel de la ecografía en el diagnóstico diferencial de la gonalgia en Atención Primaria



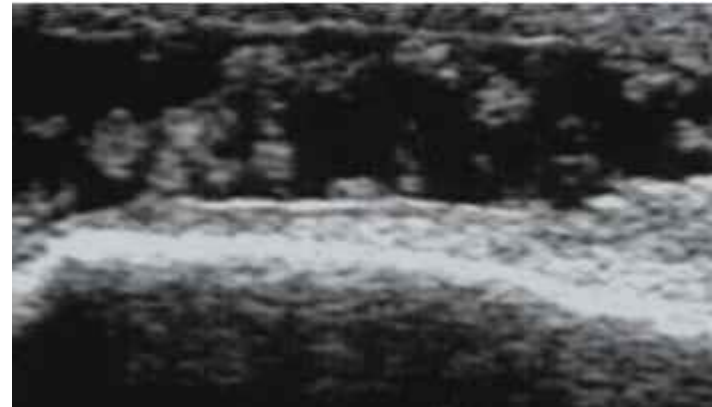
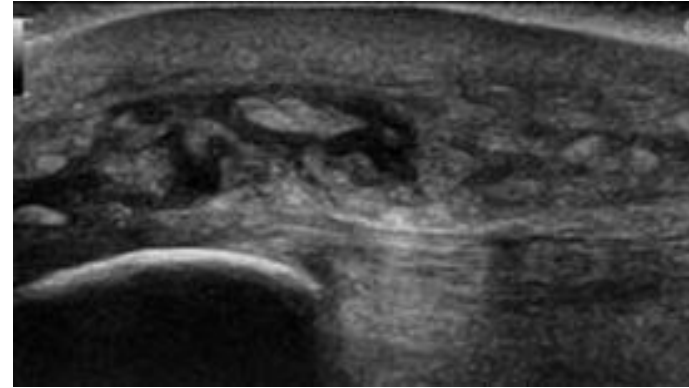
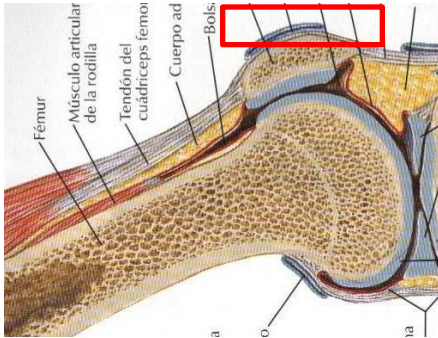
- Artritis (sinovitis)
- Tendinopatía del T Cuadriceps
- **Bursitis**
- Tendinopatía del T Rotuliano
- Artritis microcristalina:
 - Gota
 - Pirofosfato
- Artrosis
- Quiste de Baker

Bursa prepatelar

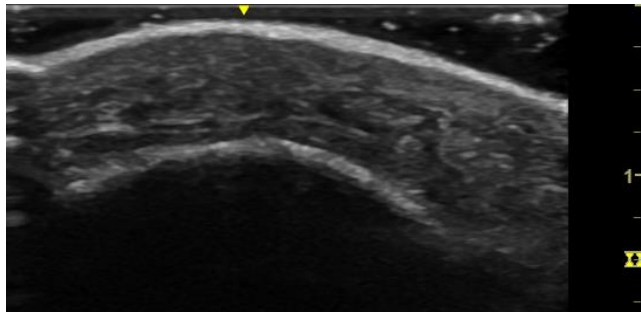


Longitudinal

Bursitis prepatelar



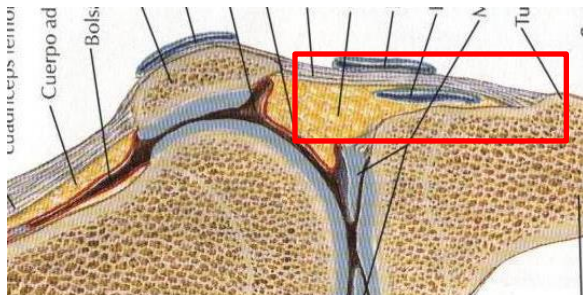
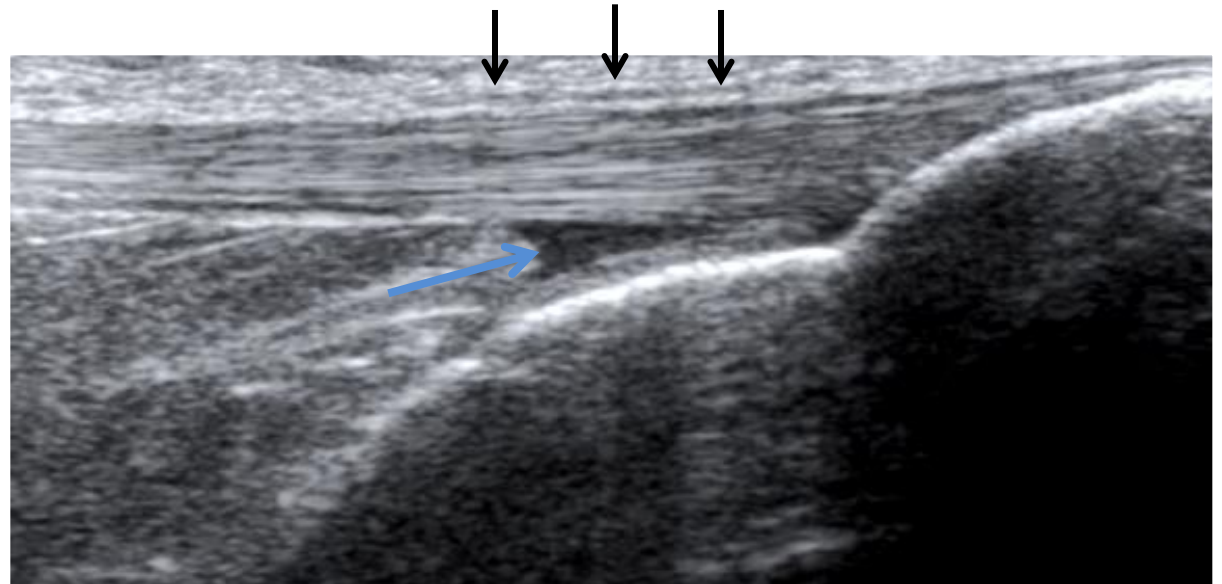
Bursitis prepatelar



Normal

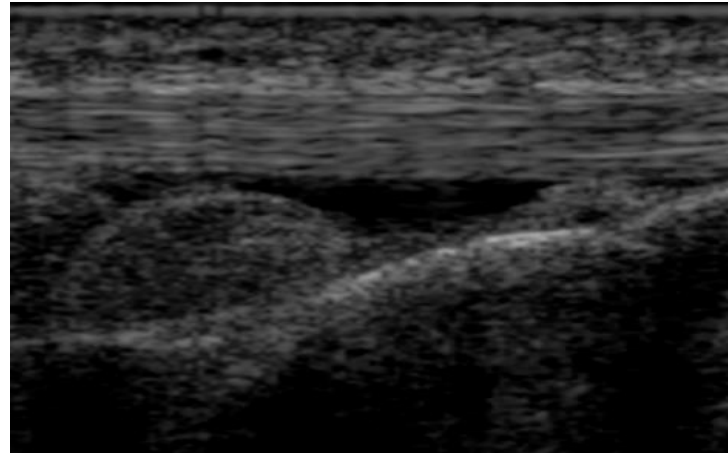
Longitudinal

Bursas infrarotuliana: Superficial y profunda

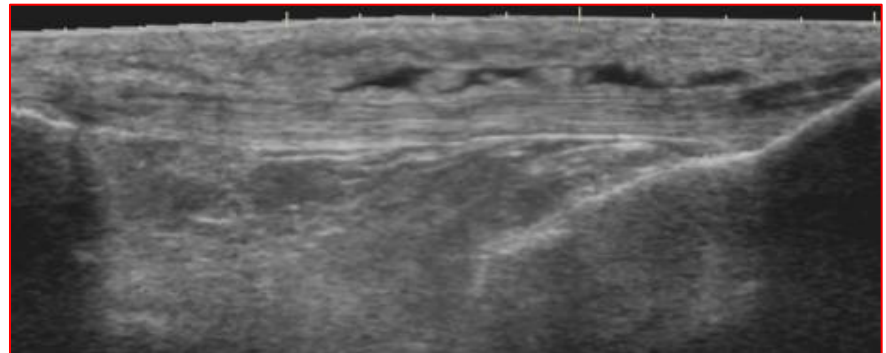


Longitudinal

Bursitis infrarotuliana

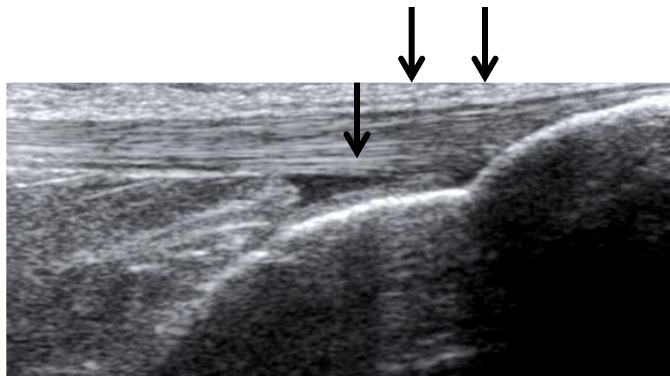
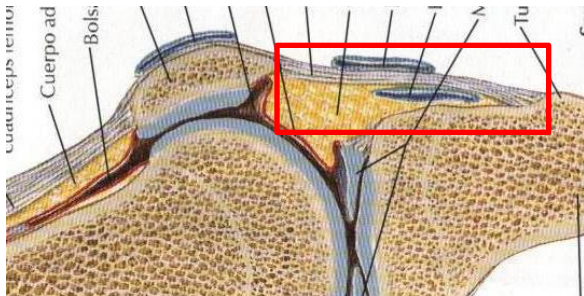


Bursitis infrarotuliana profunda



Bursitis infrarotuliana superficial

Longitudinal



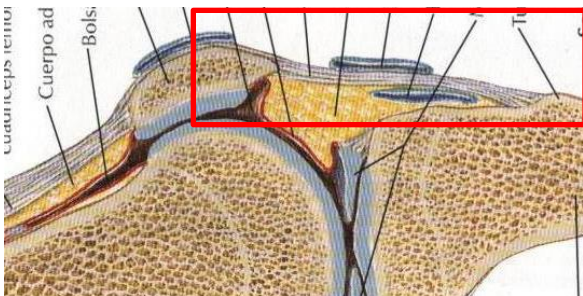
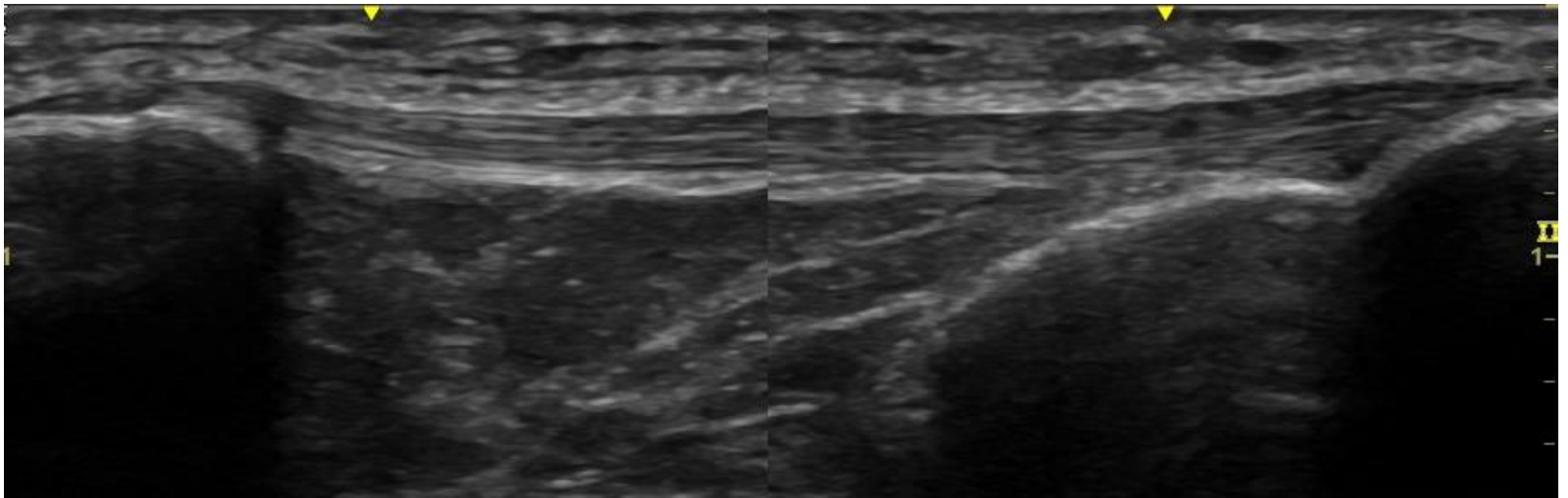
El papel de la ecografía en el diagnóstico diferencial de la gonalgia en Atención Primaria



- Artritis (sinovitis)
- Tendinopatía del T Cuadriceps
- Bursitis
- **Tendinopatía del T Rotuliano**
- Artritis microcristalina:
 - Gota
 - Pirofosfato
- Artrosis
- Quiste de Baker

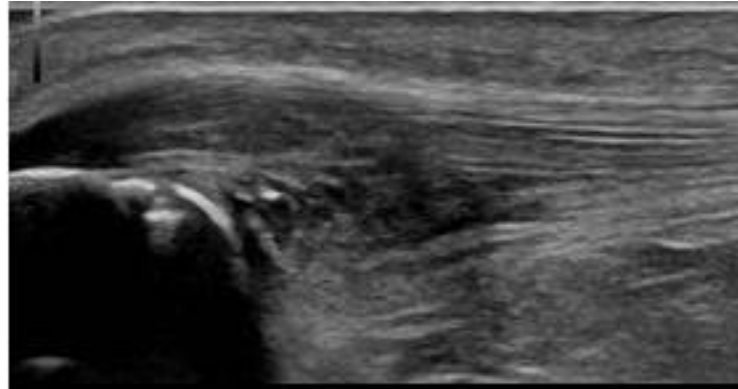


Tendón rotuliano

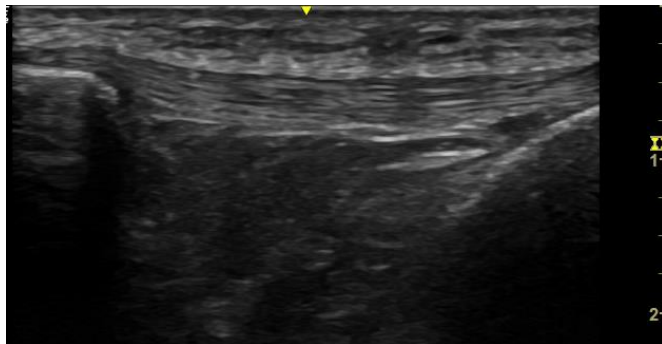
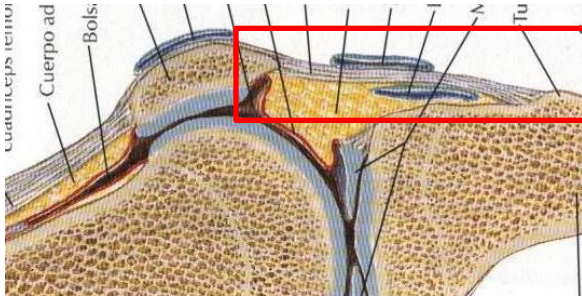


Longitudinal

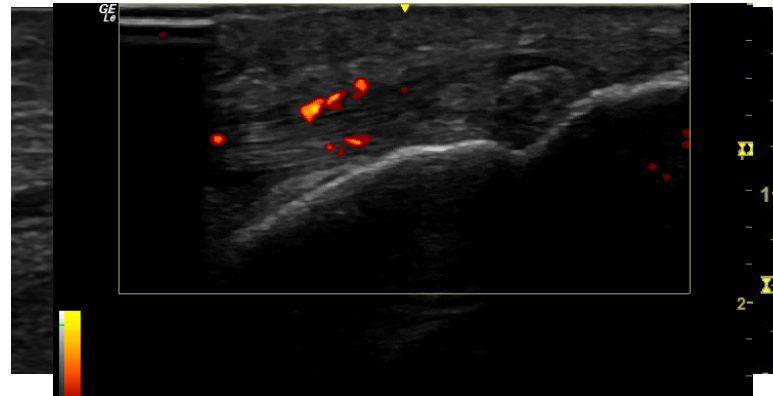
Tendinopatía del tendón rotuliano



Entesitis proximal



Normal



Entesitis distal (EA)

Longitudinal

El papel de la ecografía en el diagnóstico diferencial de la gonalgia en Atención Primaria



- Artritis (sinovitis)
- Tendinopatía del T Cuadriceps
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- Tendinopatía del T Rotuliano
- **Artritis microcristalina:**
 - Gota
 - Pirofosfato
- Artrosis
- Quiste de Baker

Cartílago articular

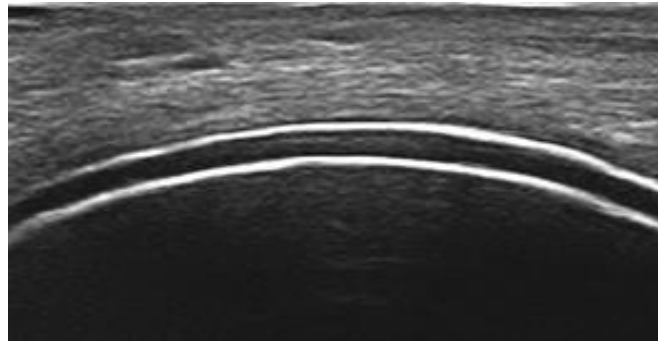


Tranversal

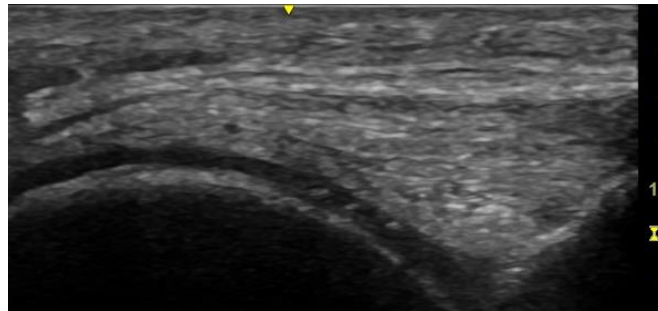
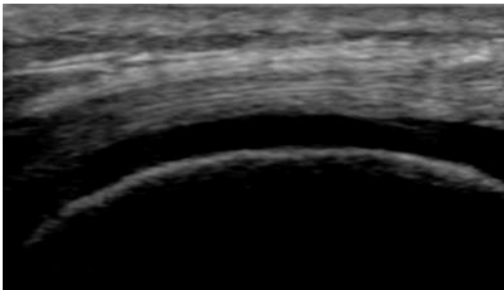
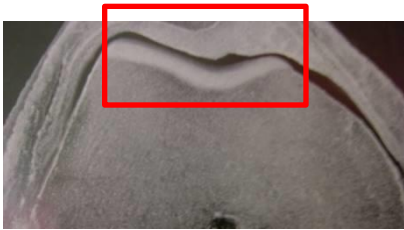


Longitudinal

Artritis microcristalina



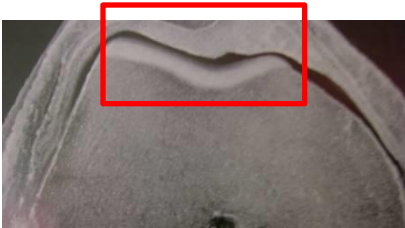
Gota: doble contorno



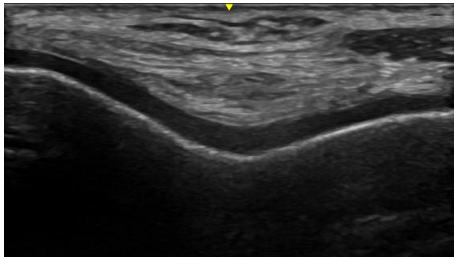
Pirofosfato: **Condrocalcinosis**

Longitudinal

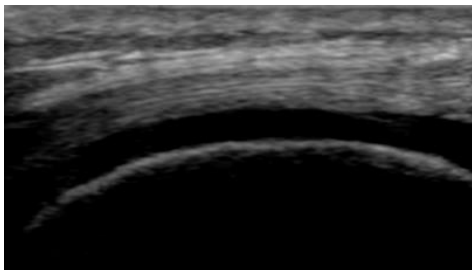
Gonartrosis



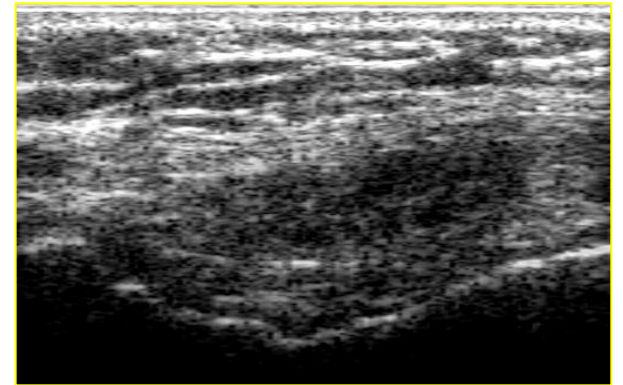
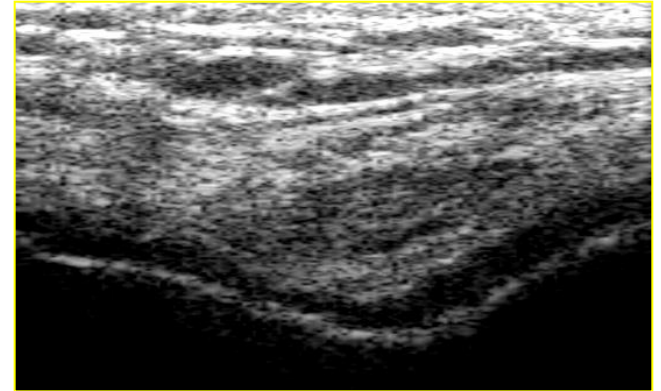
- $<$ espesor del cartílago
- Perdida de definición
- Irregularidades en las interfases



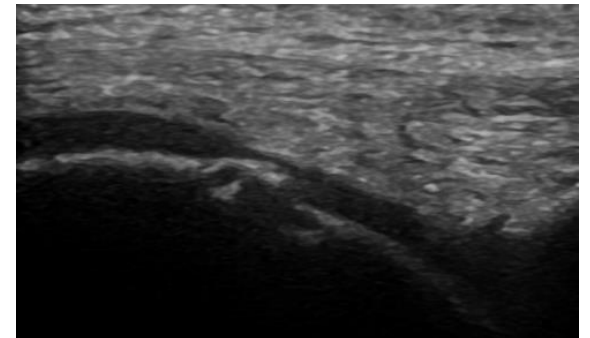
Transversal



Longitudinal



- Lesiones focales

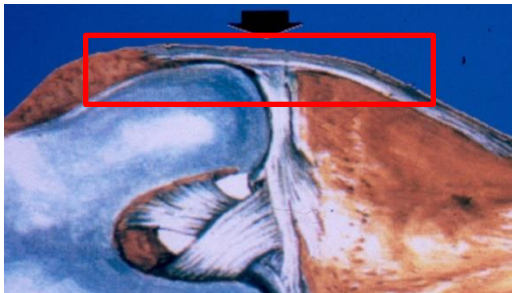
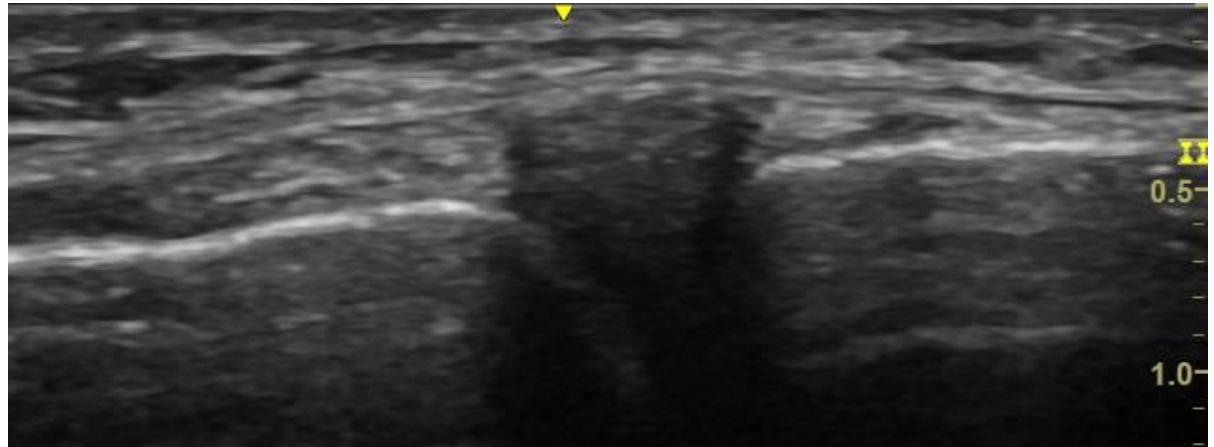


El papel de la ecografía en el diagnóstico diferencial de la gonalgia en Atención Primaria



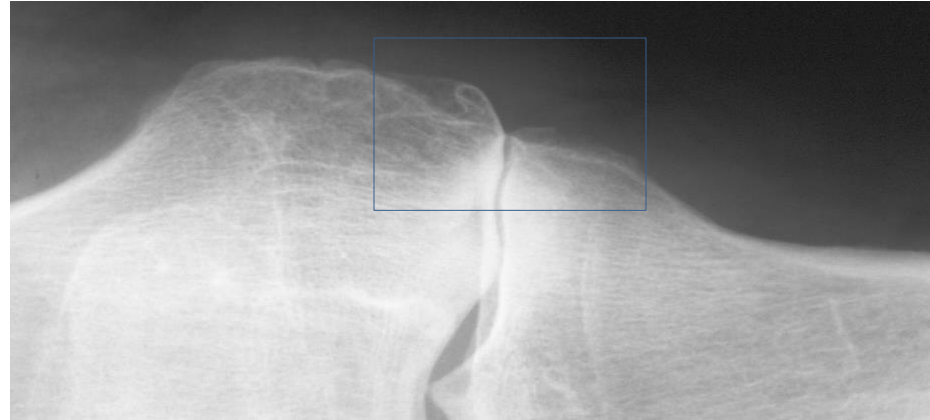
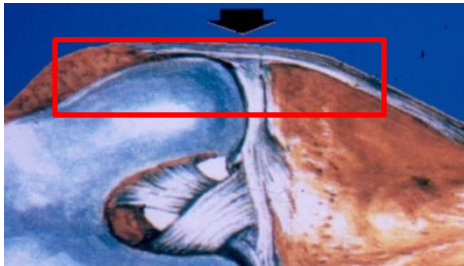
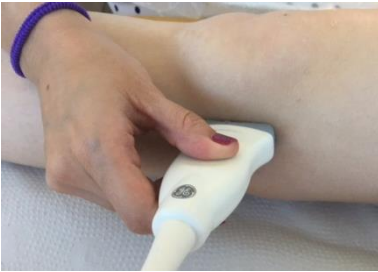
- Artritis (sinovitis)
- Tendinopatía del T Cuadriceps
- Bursitis
- Tendinopatía del T Rotuliano
- Artritis microcristalina:
 - Gota
 - Pirofosfato
- **Artrosis**
- Quiste de Baker

Interlinea femoro-tibial interna

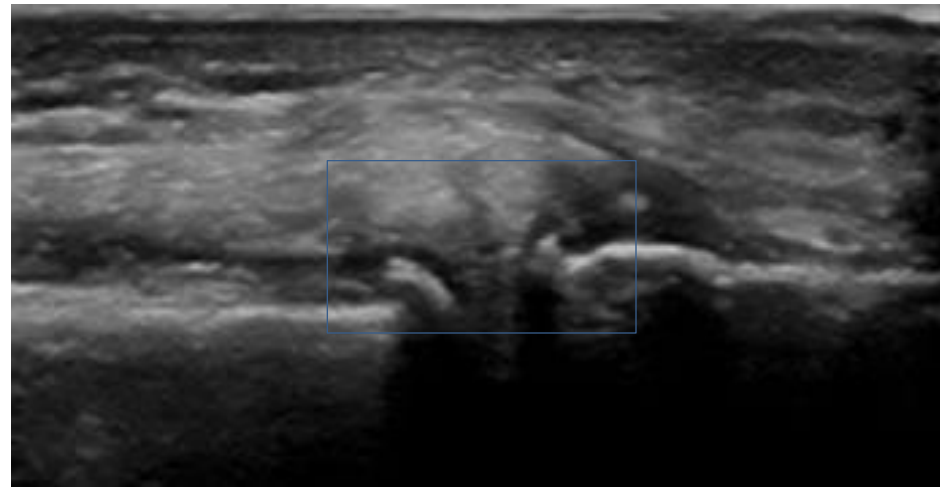


Longitudinal

Gonartrosis (I)

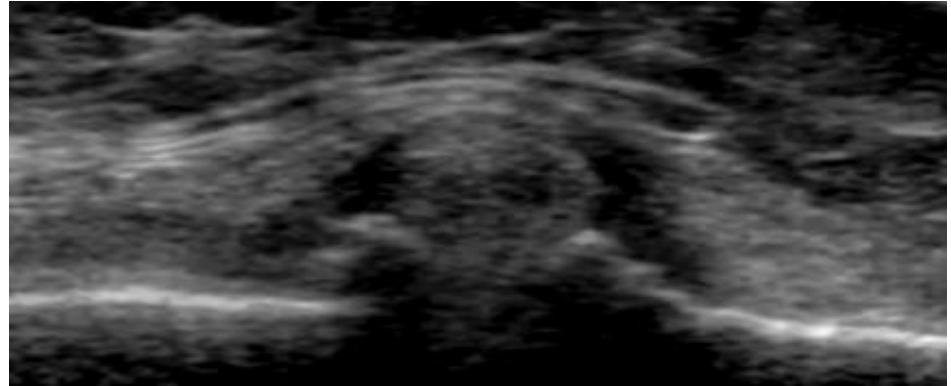
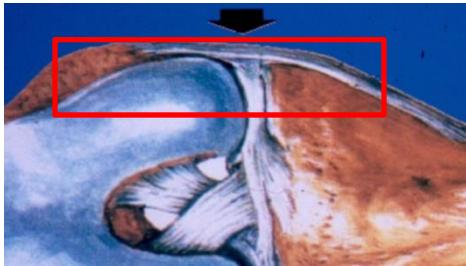
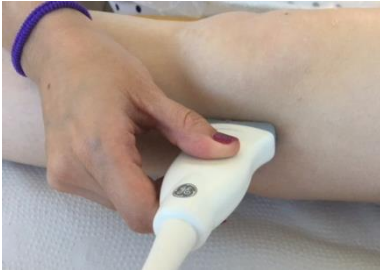


Osteofitos, pinzamiento

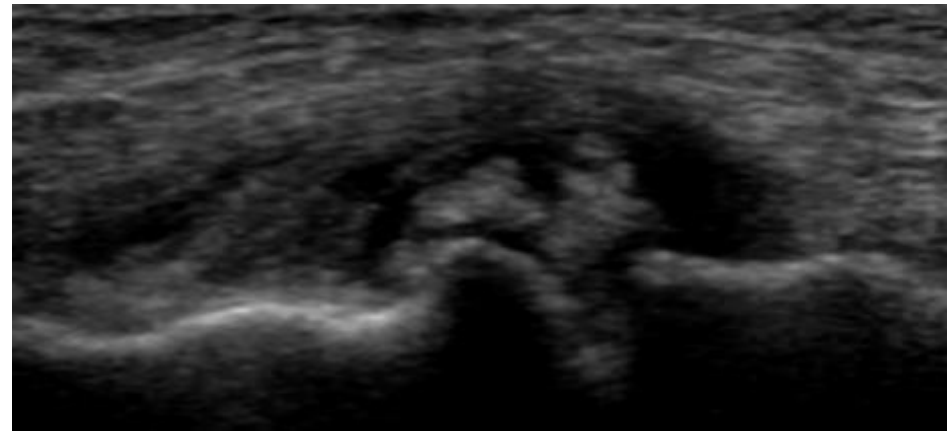


Longitudinal

Gonartrosis (II)



Subluxación meniscal con distensión del ligamento colateral medial



Extrusión y fragmentación meniscal

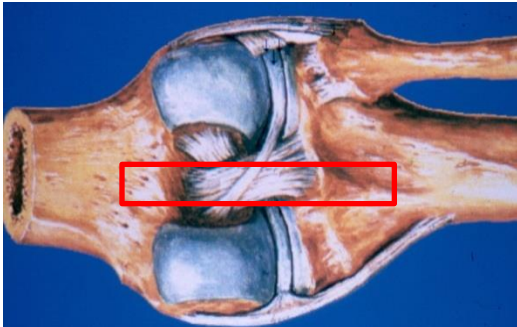
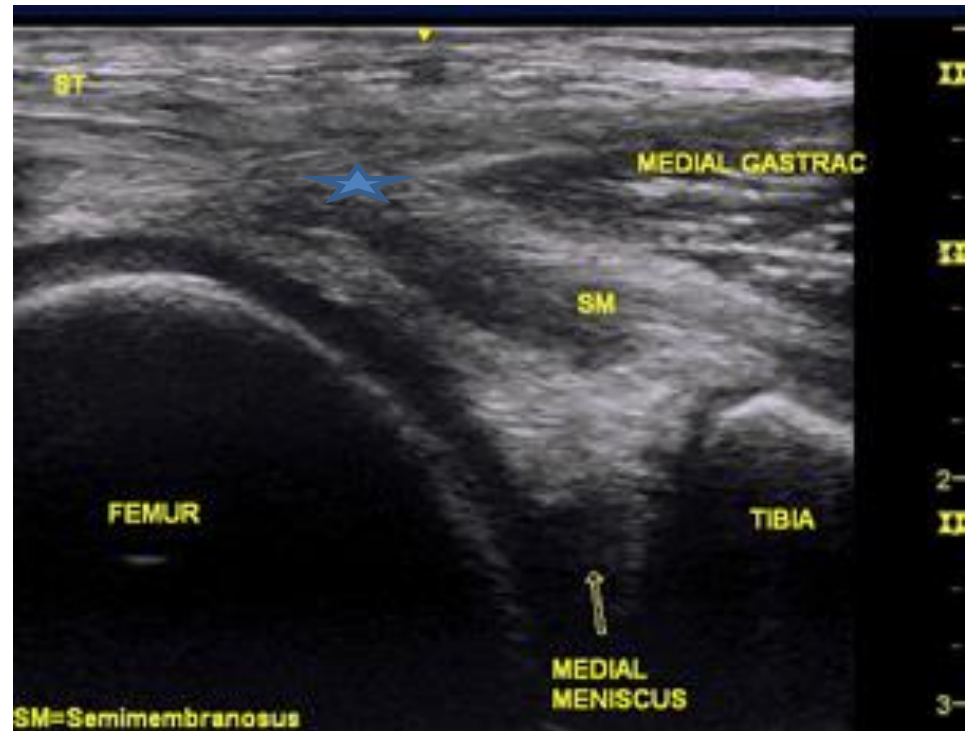
Longitudinal

El papel de la ecografía en el diagnóstico diferencial de la gonalgia en Atención Primaria



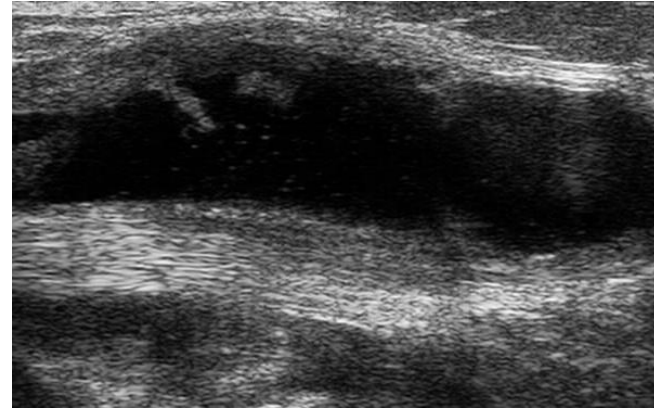
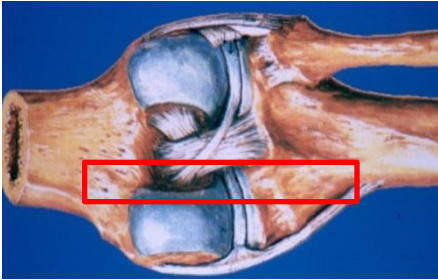
- Artritis (sinovitis)
- Tendinopatía del T Cuadriceps
- Bursitis
- Tendinopatía del T Rotuliano
- Artritis microcristalina:
 - Gota
 - Pirofosfato
- Artrosis
- Quiste de Baker

Región poplítea

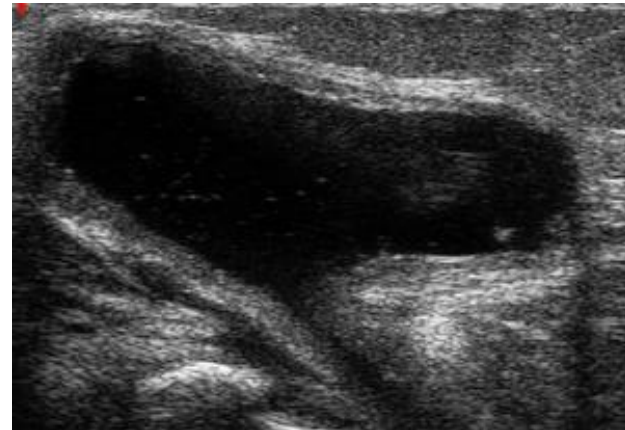
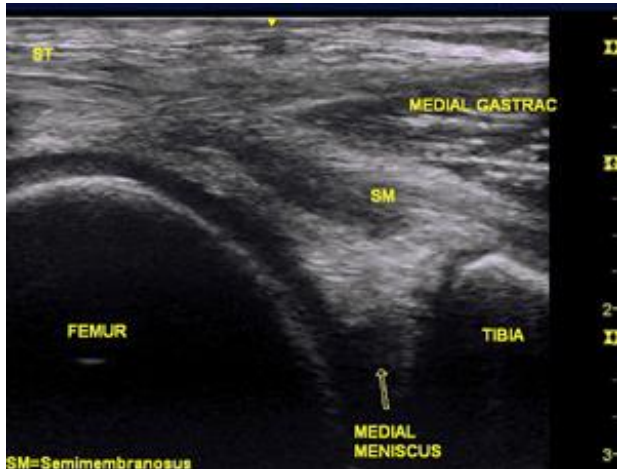


Longitudinal

Quiste de Baker



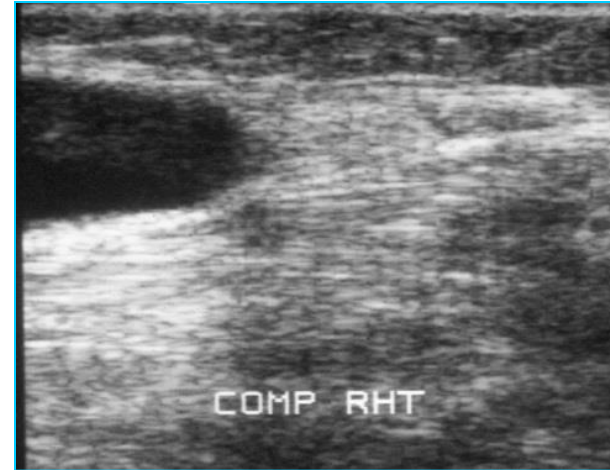
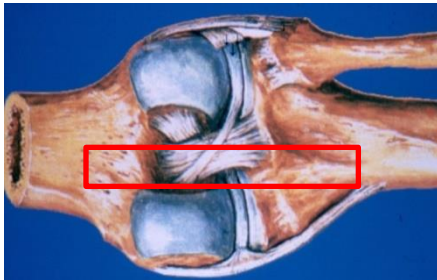
Q. Baker longitudinal



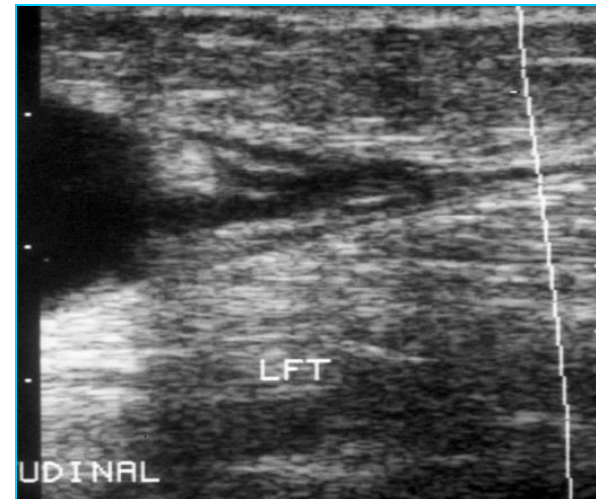
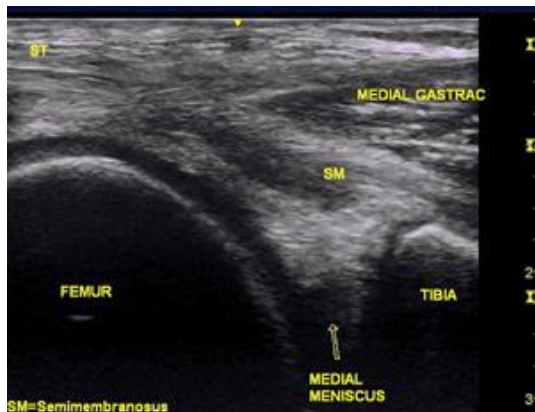
Q. Baker transversal

Longitudinal

Rotura de quiste de Baker



Q. De Baker longitudinal



Longitudinal

Mensaje para llevar



Conocimientos de anatomía ecográfica
+
Conocimiento de la patología ecográfica
+
Equipo de Ecografía
+
++++Tiempo
+
Ilusión



Muchas gracias

jcacebes@fjd.es