
XX Jornada de Residents: Taller d'ecografia

GdT ecoAP



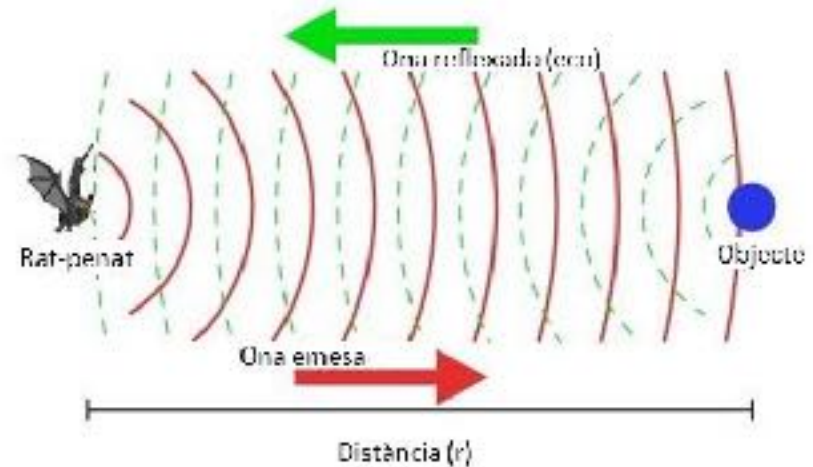
Què és l'ecografia clínica?

Aquella ecografia realitzada pel metge de Primària com a complement a una anamnesi i exploració física adequades



Principis físics

- L'efecte piezoelèctric consisteix en transformar energia elèctrica en sonora
- L'ultraso és una ona mecànica d'alta freqüència (1,5 - 12 MHz)
- Les diferents sondes treballen a freqüències diferents:
 - Linial: alta freqüència (7.5-12MHz): millor resolució, menys profunditat



Llenguatge ecogràfic

- Ecogenicitat (homogènia o heterogènia)
 - Hiperecogènica (blanc)
 - Hipoecogènica (gris)
 - Isoecogènica (iguals)
 - Anecogènica (negre)



Descripció imatge ecogràfica

- Intensitat (iso, hipo, hiper, a)
- Ecoestructura (homo, hetero)
- Delimitació de la imatge (ben/mal definit, marges, càpsula)
- Forma (arrodonida, ovalada, fusiforme)
- Número (únic, múltiple)
- Situació (normal, ectòpic)
- Relació amb altres estructures

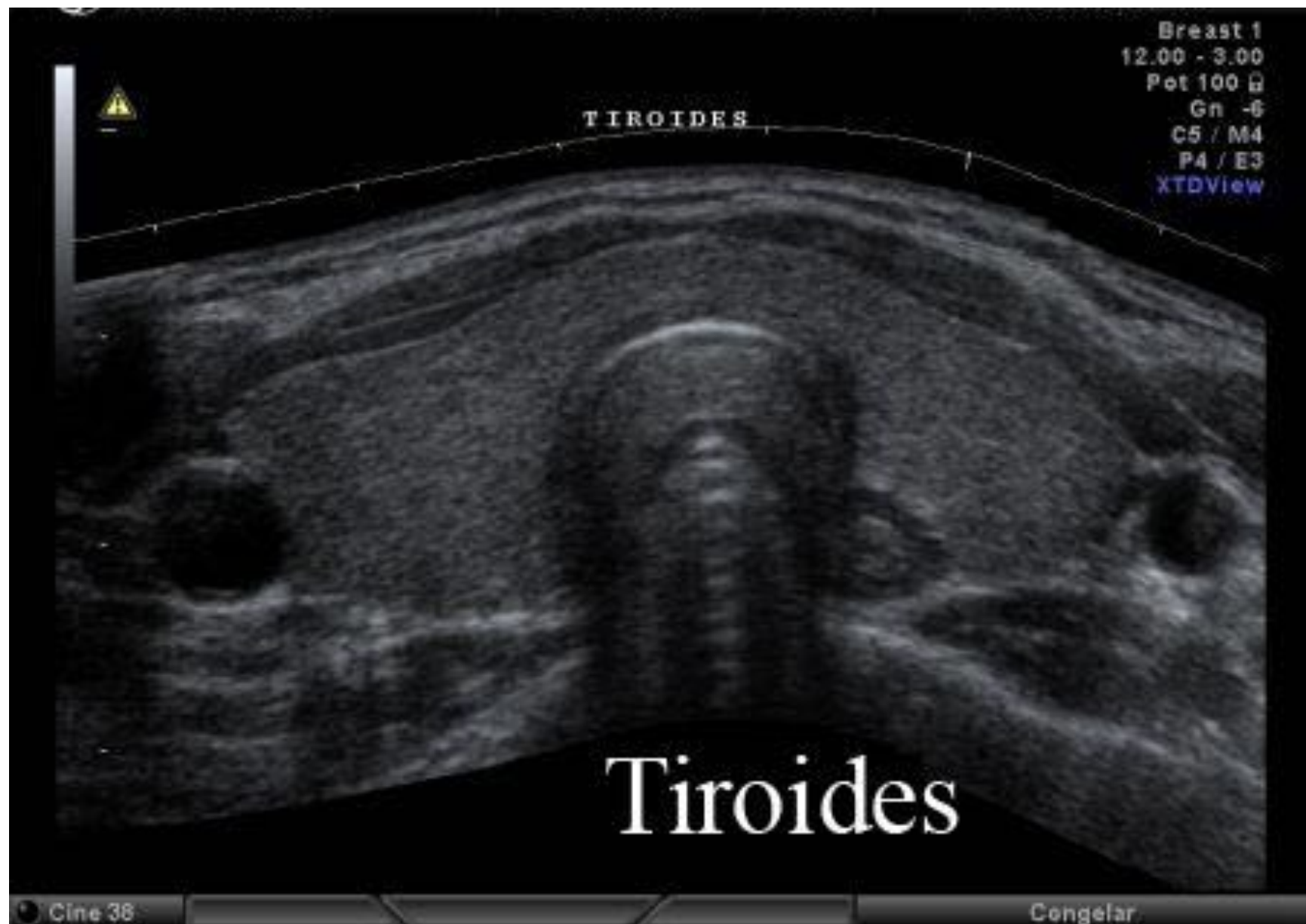
Alguns artefactes en ecografia



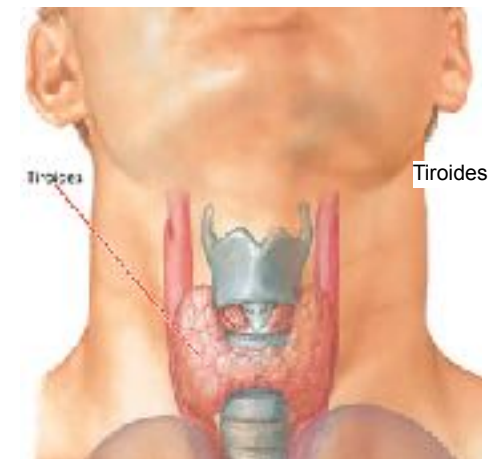
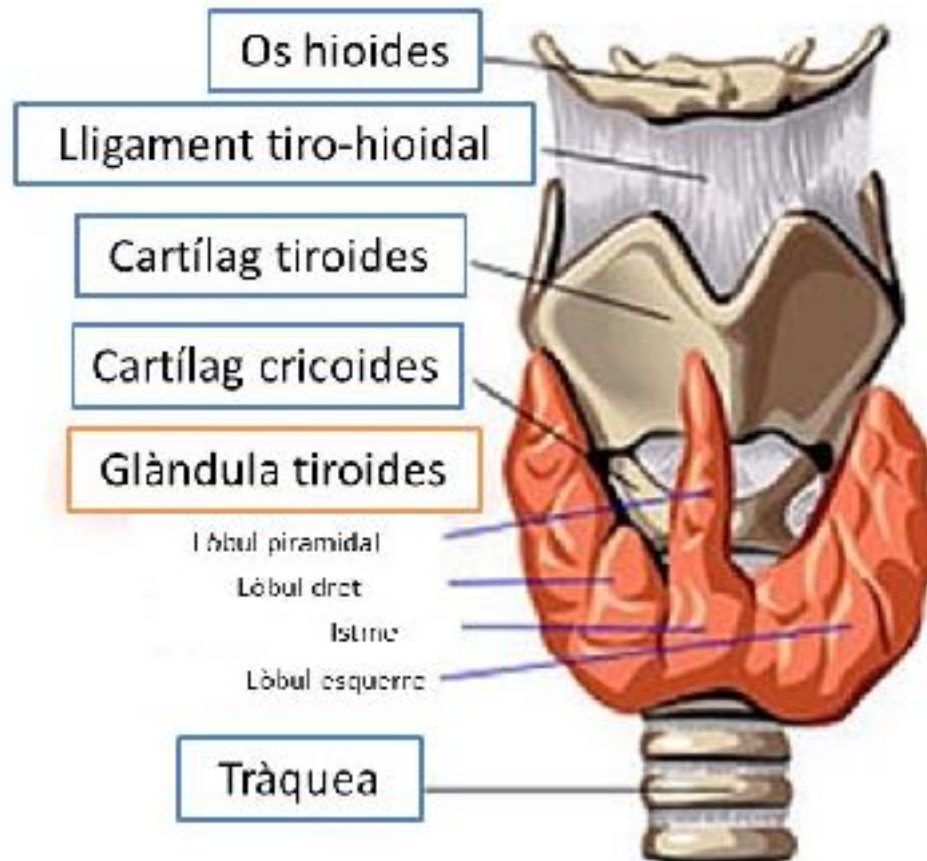
Els 3 botons de les nostres vides



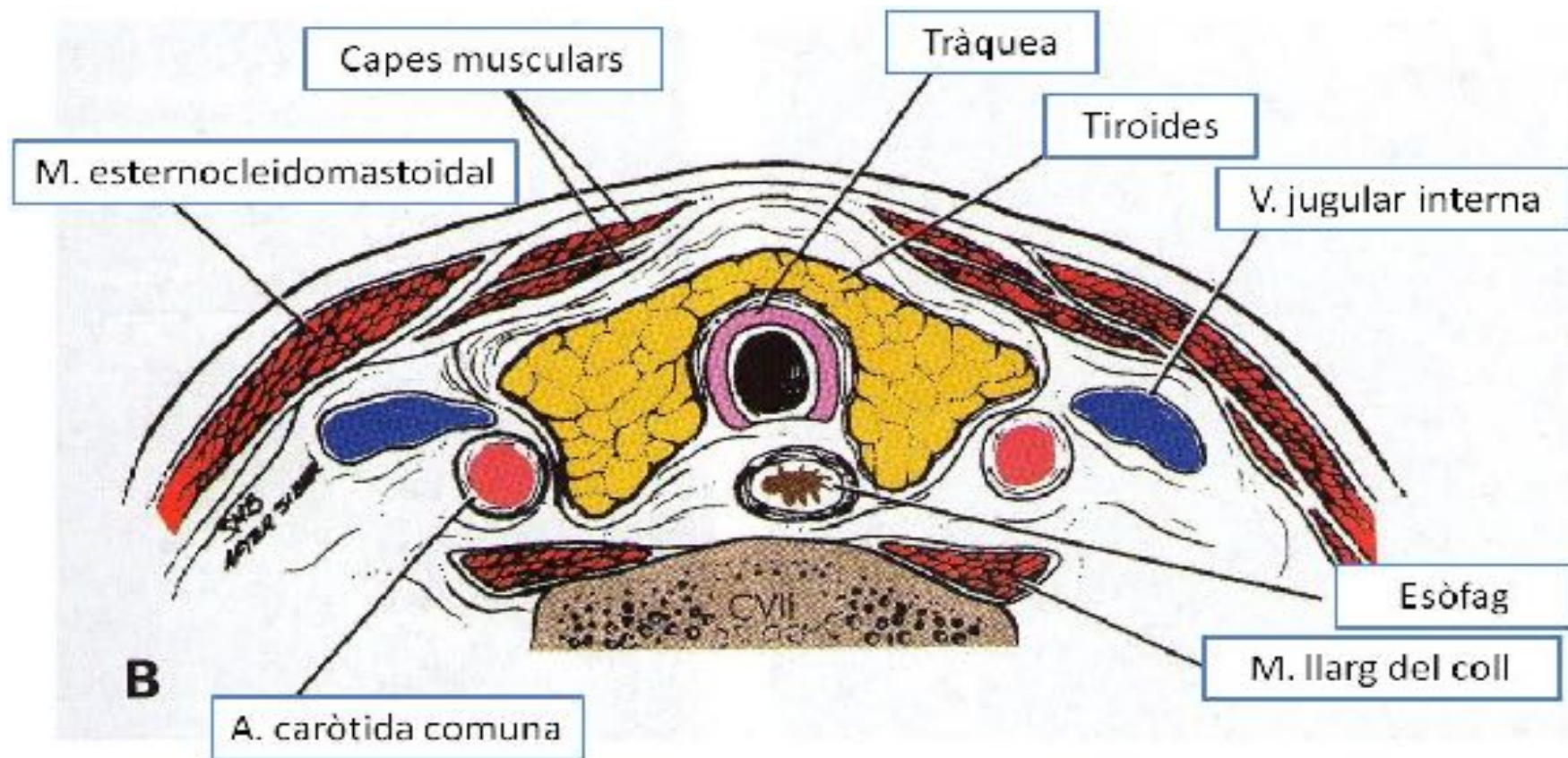
- Freeze - Cineloop
- Profunditat
- Ganància / guany

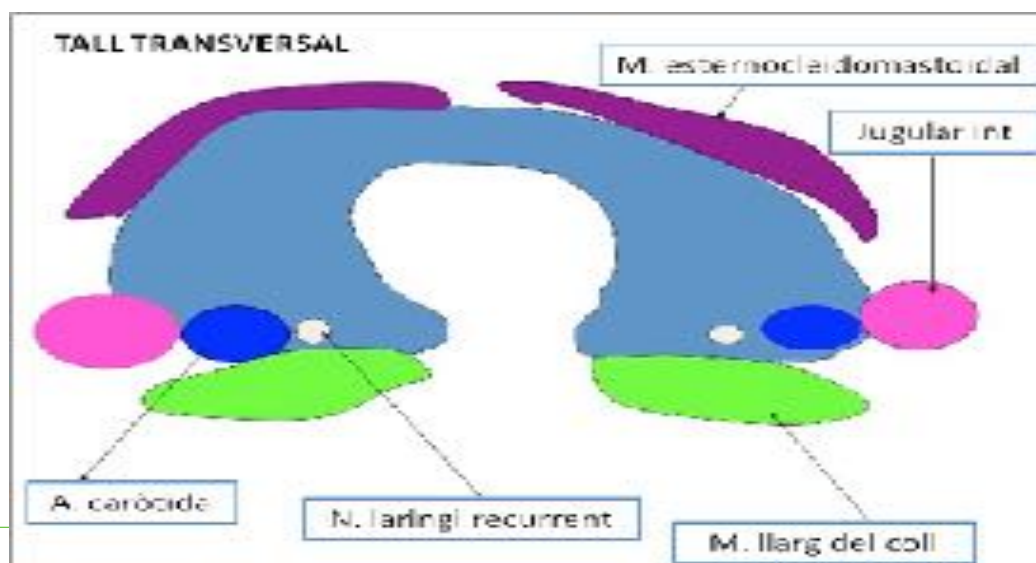


Repàs anatòmic



Repàs anatòmic





Estudi ecogràfic

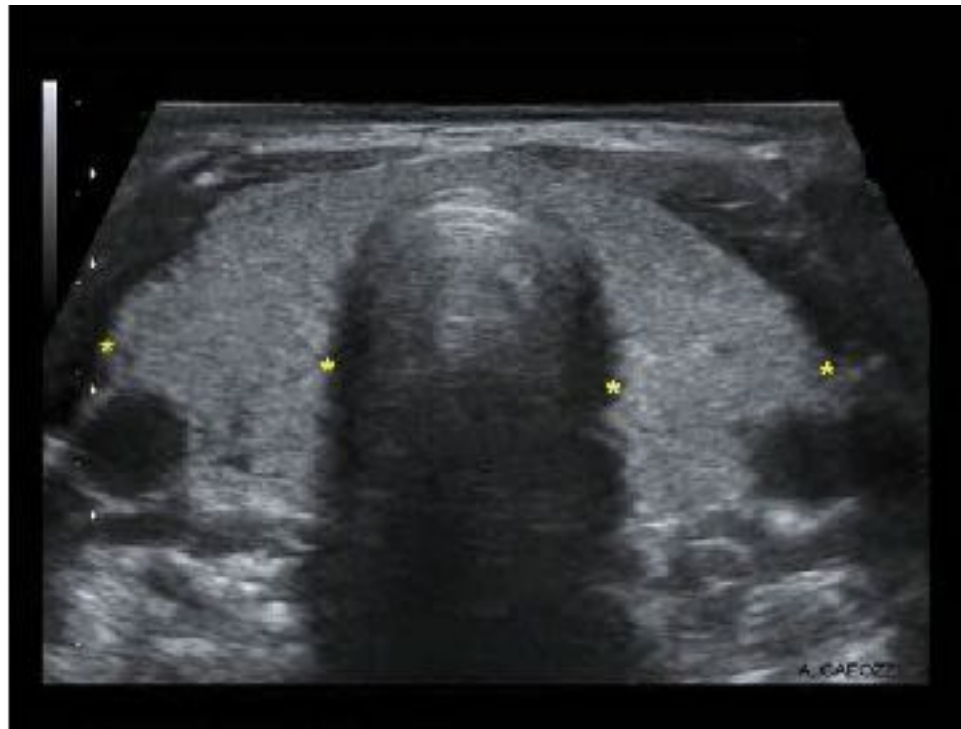
- Pacient en decúbit supí o assegut amb hiperextensió del coll
- Pot recolzar-se amb coixí entre omòplats
- Freqüències altes, d'entre 7,5 - 12 MHz



Orientació de la imatge (Transversal)

SUPERFICIAL

DRETA



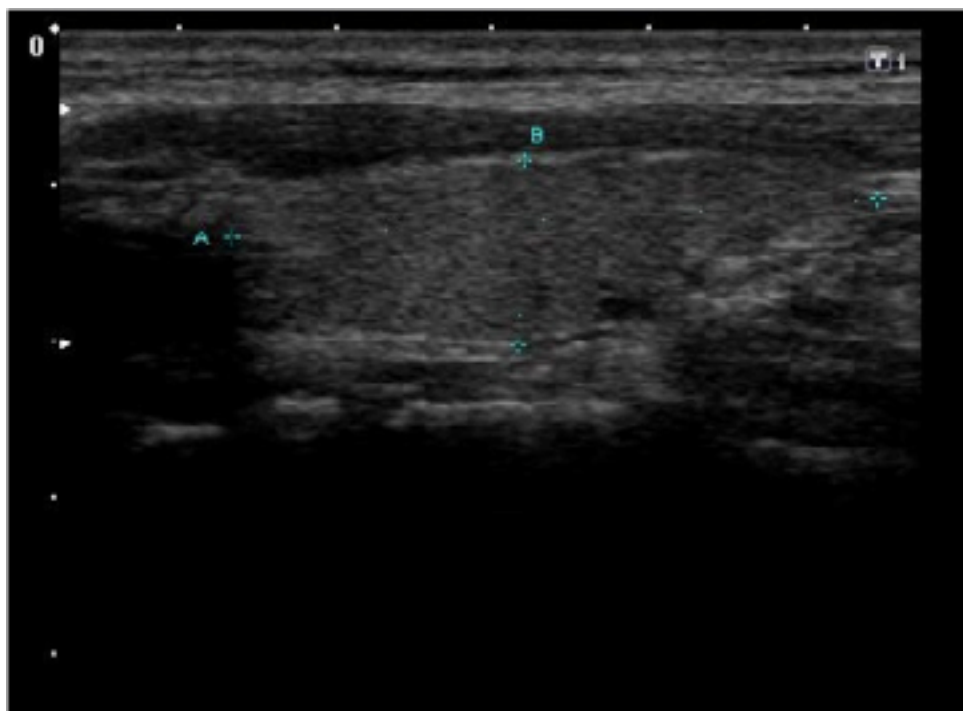
ESQUERRA

PROFUND

Orientació de la imatge (Longitudinal)

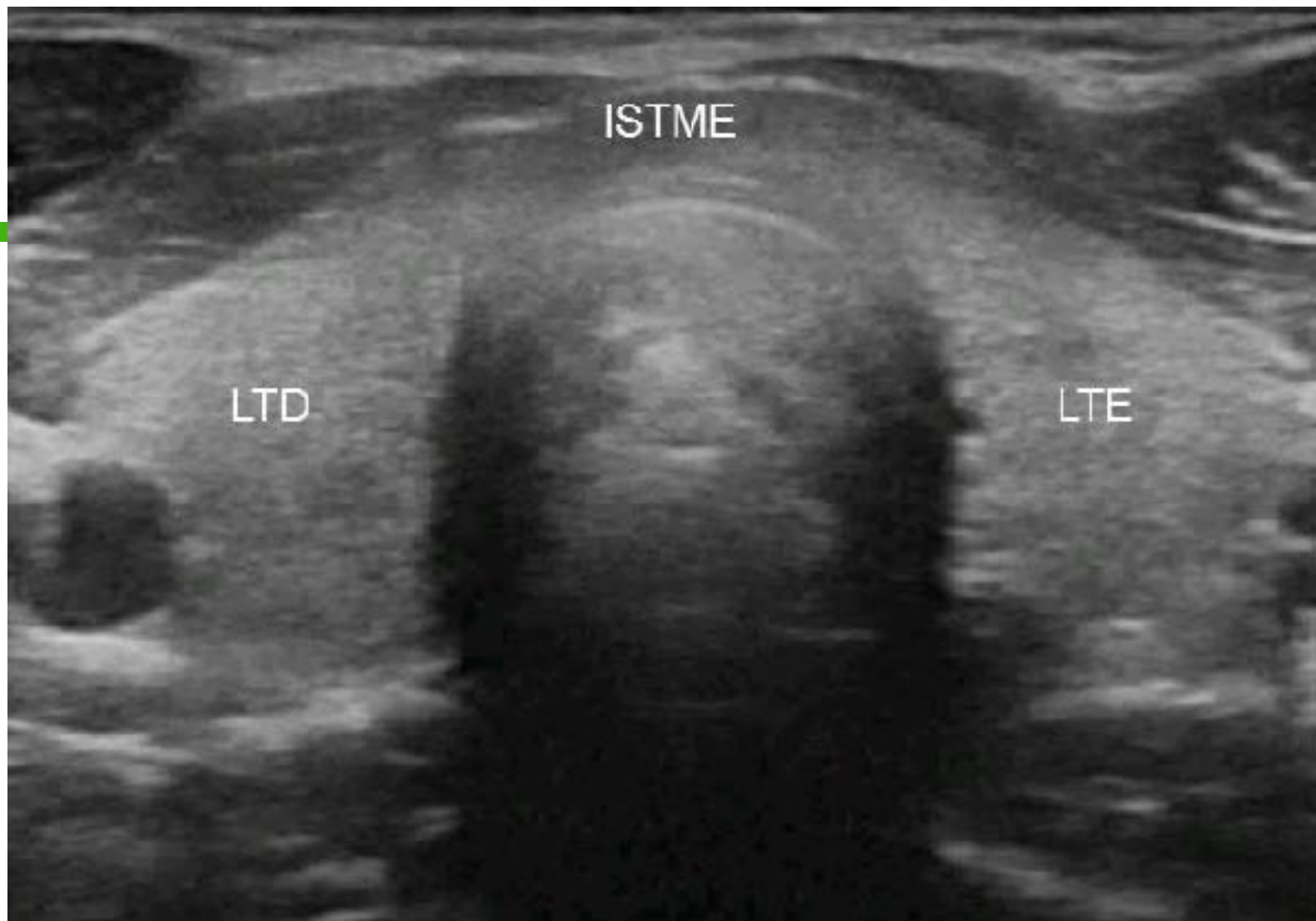
SUPERFICIAL

CRANEAL



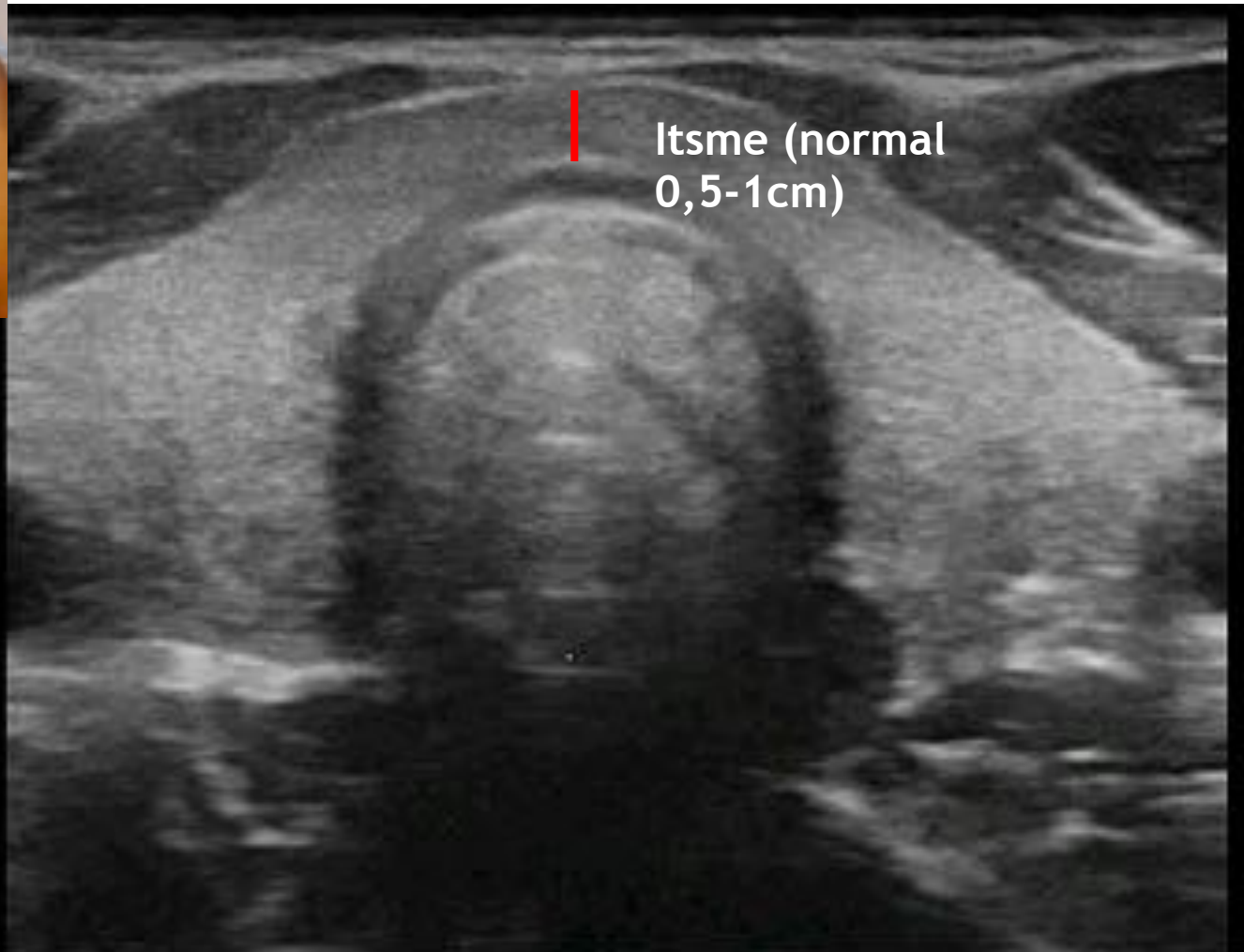
CAUDAL

PROFUND



Ecogenicitat normal: HOMOGÈNIA

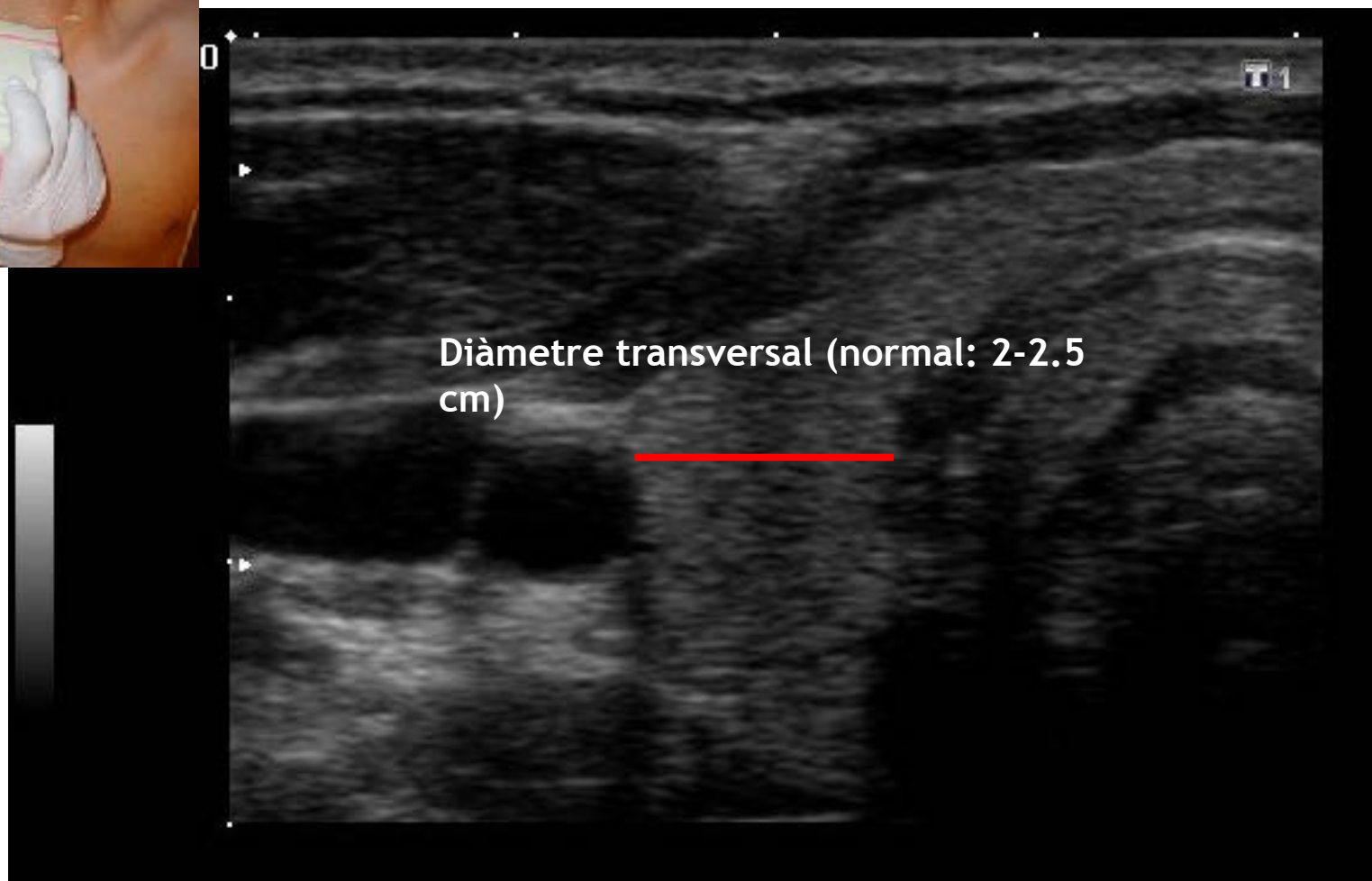
Tall transversal: istme



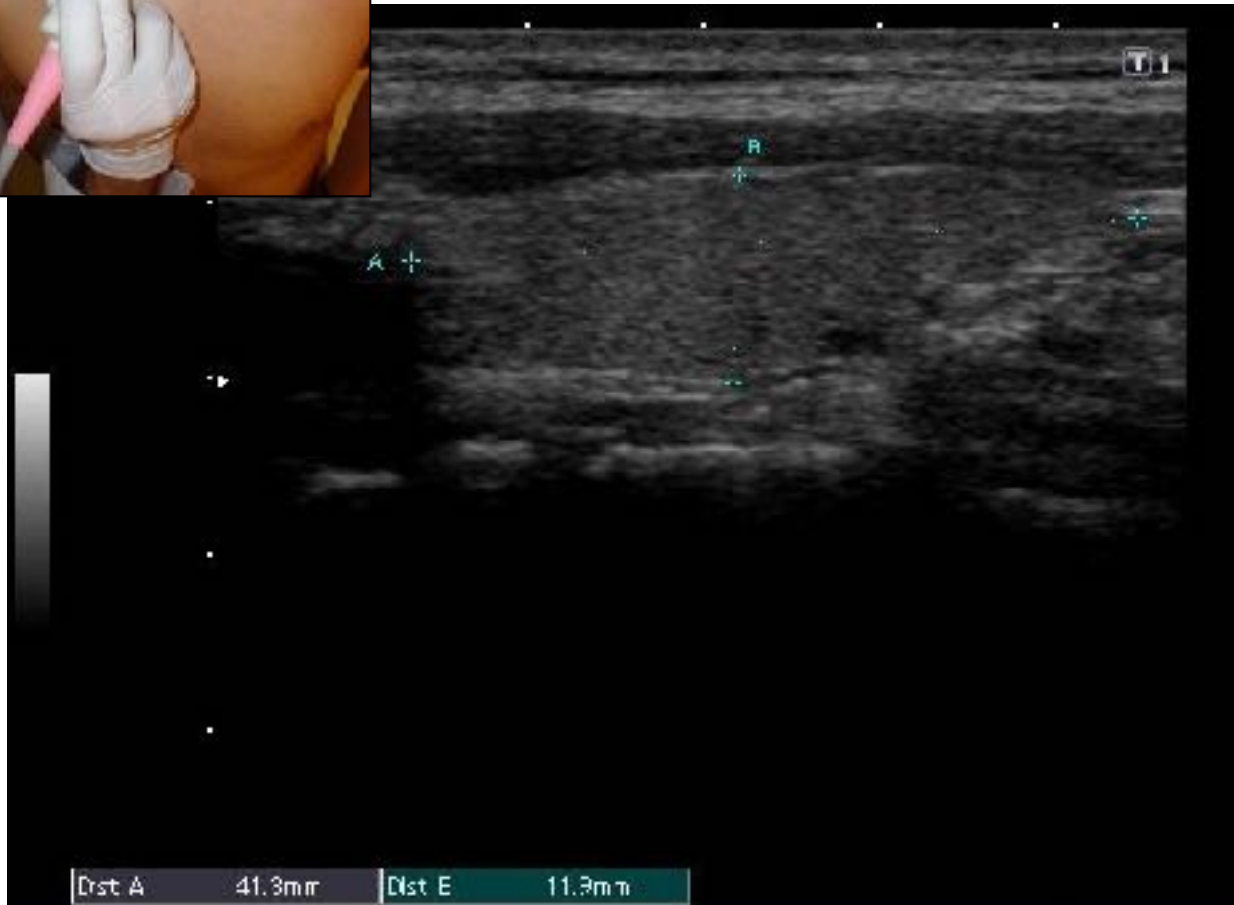
Isthme (normal
0,5-1cm)



Tall transversal: lòbul dret



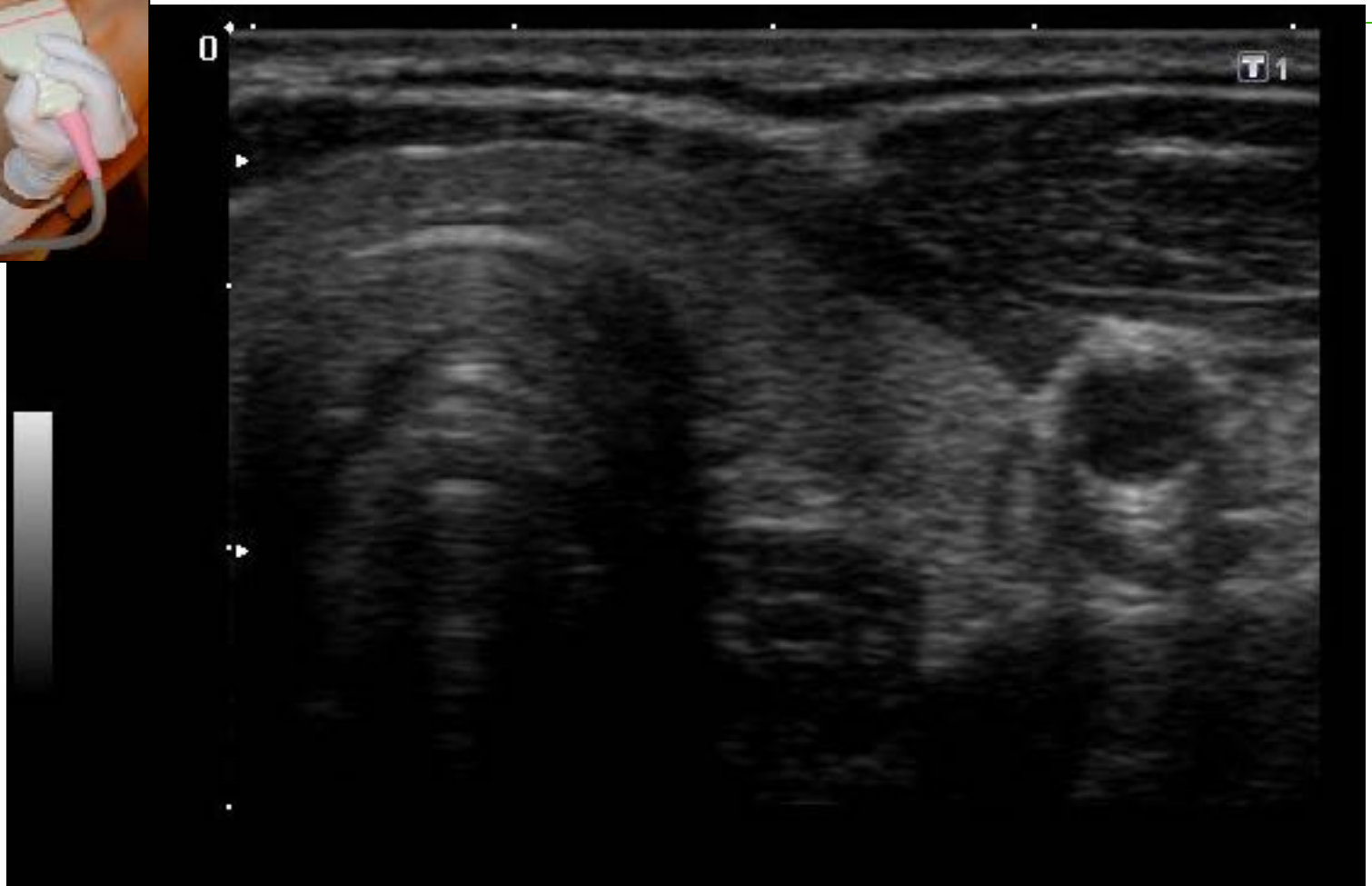
Tall longitudinal: lòbul dret



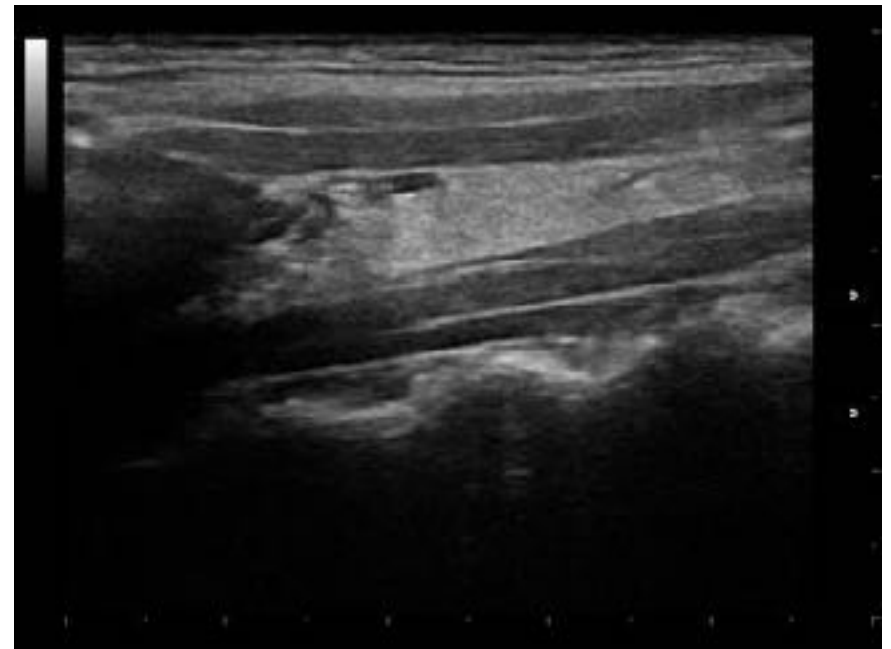
- A. Longitudinal o sagital
(normal: 3,5 - 5 cm)
- B. Antero-posterior
(normal: 1 - 2 cm)

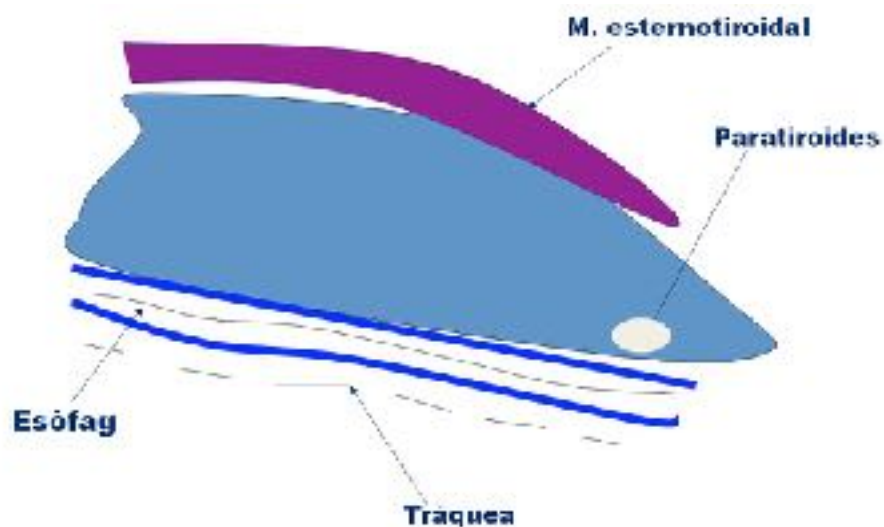
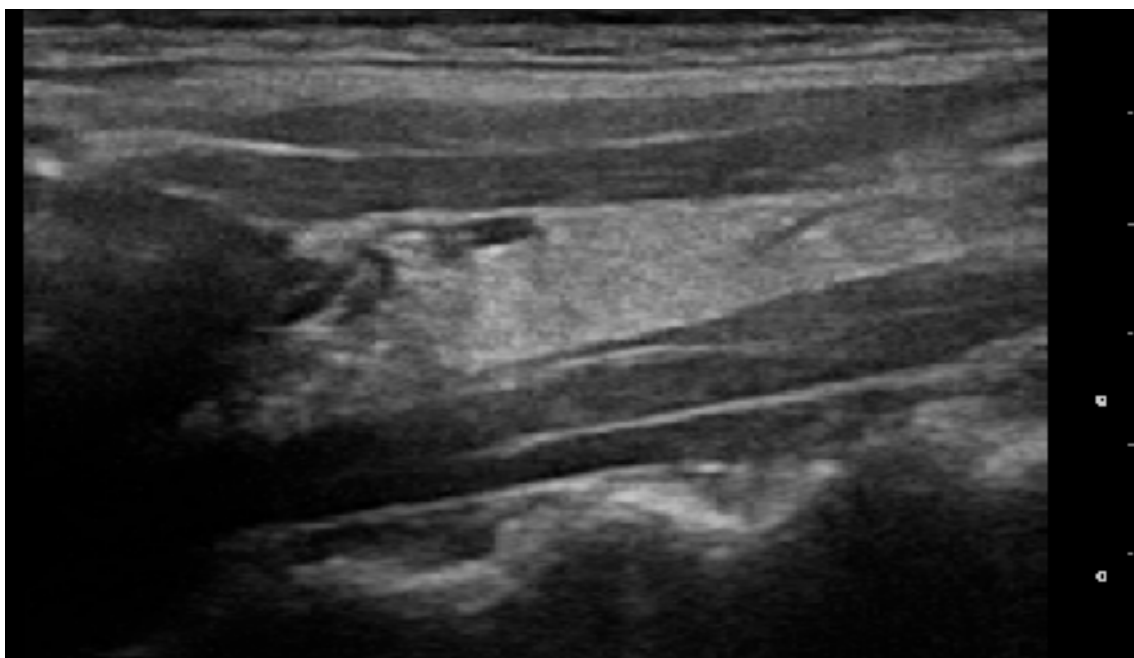
Diem que la glàndula està augmentada de tamany quan el diàmetre AP és $> 2\text{cm}$

Tall transversal: lòbul esquerre



Tall longitudinal: lòbul esquerre





Les glàndules paratiroides es troben a la regió posterior de cadascun dels quatre pols tiroideus (normalment no es veuen)

XX Jornada de Residents: Taller d'ecografia Estatlla i genoll



GdT ecoAP



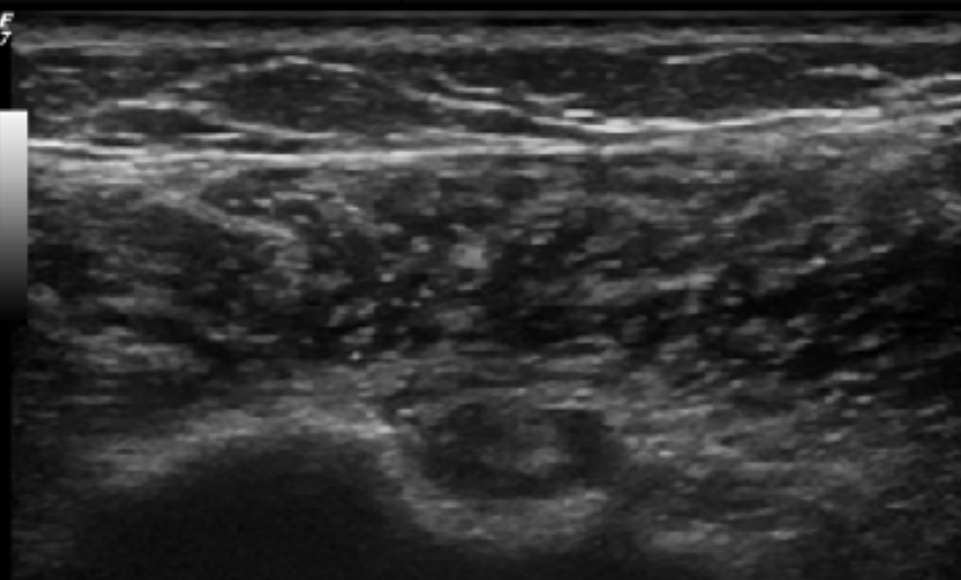
Consideracions generals

- Sonda lineal d'alta freqüència
- Dues espatlles - cal comparar
- Pacient assentat en llitera o tamboret
- Cal preparació ?

**Benvinguts a
I'ANISOTROPIA**



GE
L7



- B CHI
- Freq. 12.0 MHz
- Gn 70
- E/A 3/3
- Map/H/0/0
- D 3.0 cm
- DR 75
- FR 21 Hz
- AO 90 %

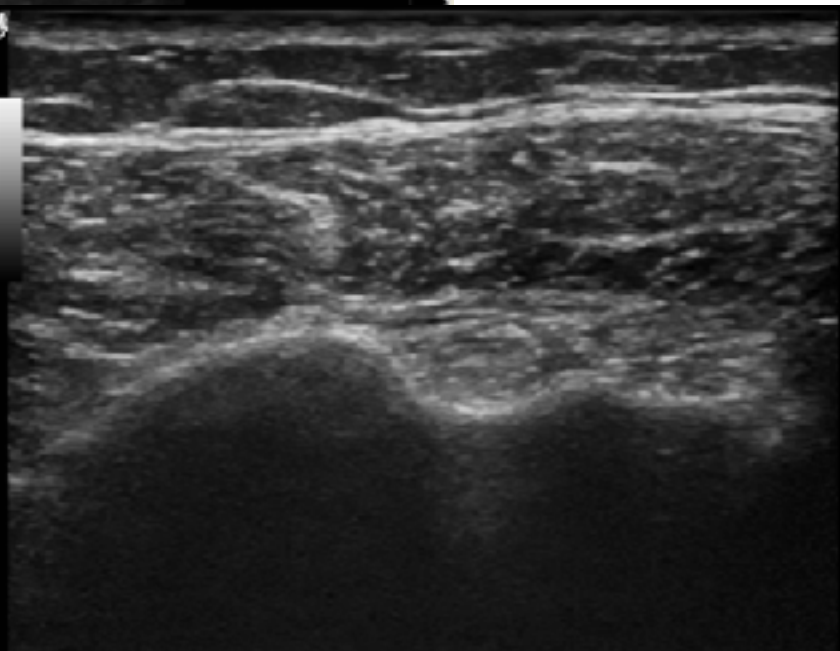
1"

II

2"

pages: 1 de 4

GE
L7



- B CHI
- Freq. 12.0 MHz
- Gn 70
- E/A 3/3
- Map/H/0/0
- D 3.0 cm
- DR 75
- FR 21 Hz
- AO 90 %

1"

II

2"

3"

pages: 2 de 4

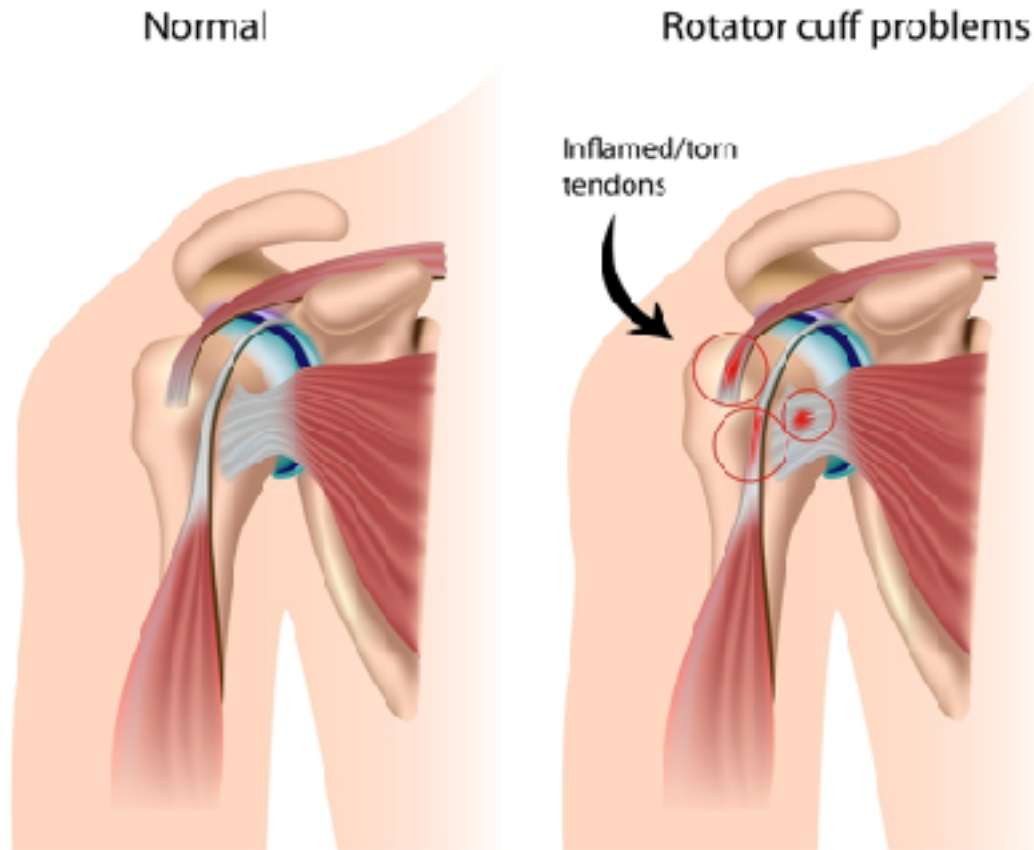
pg. 4



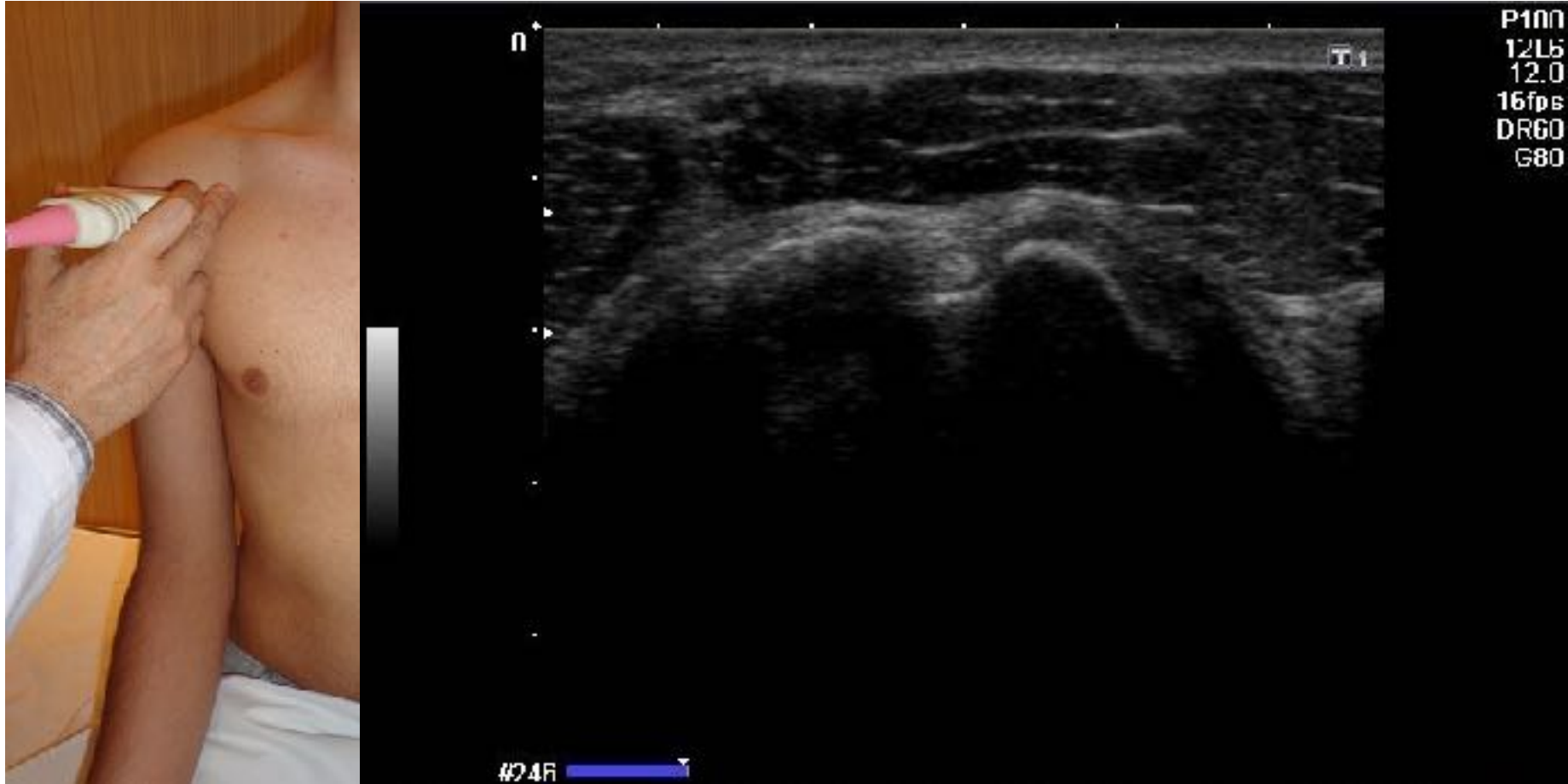
CAMFIC. Societat Catalana de Medicina Familiar i Comunitària



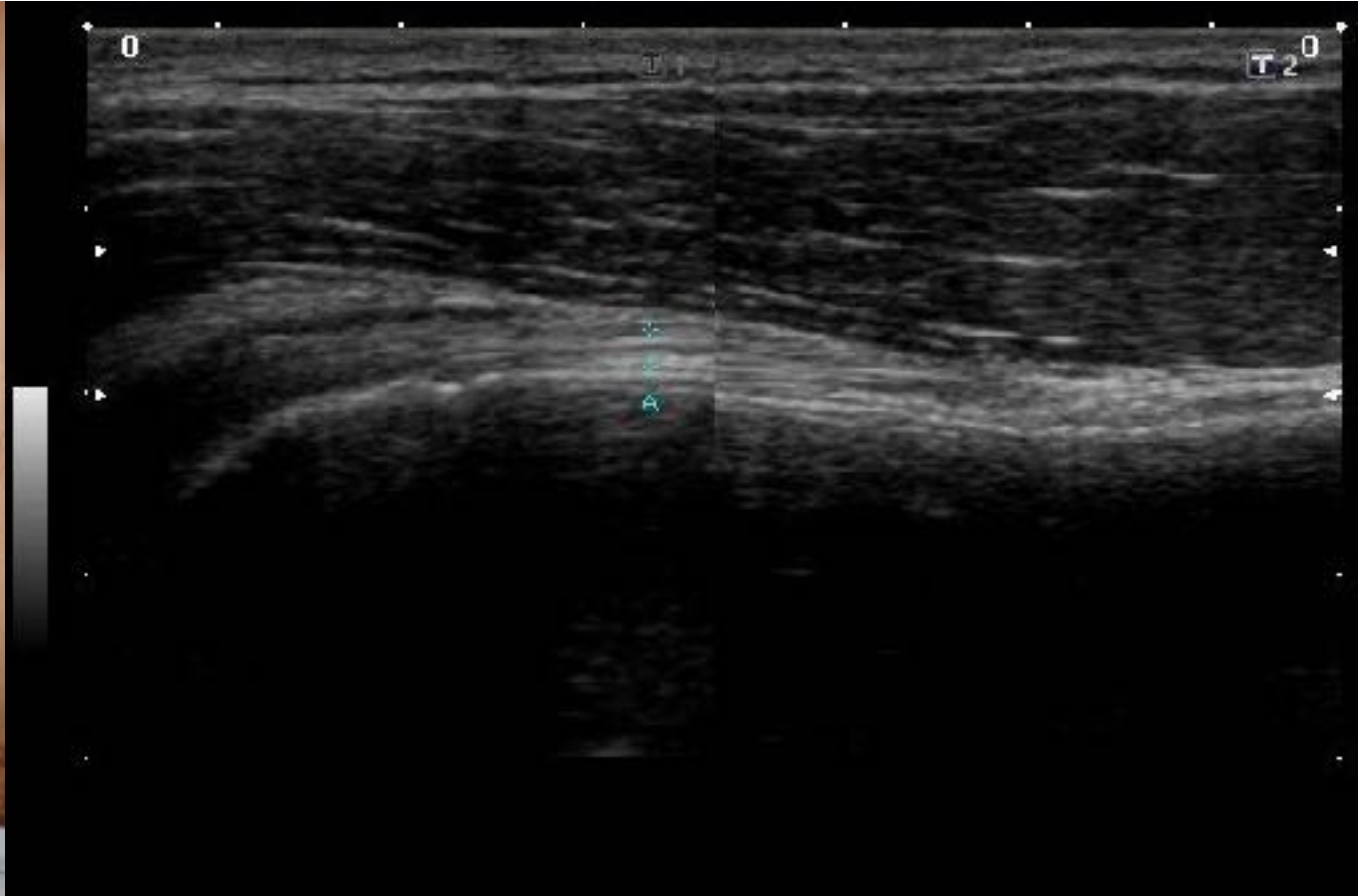
Espatlla: repàs anatòmic



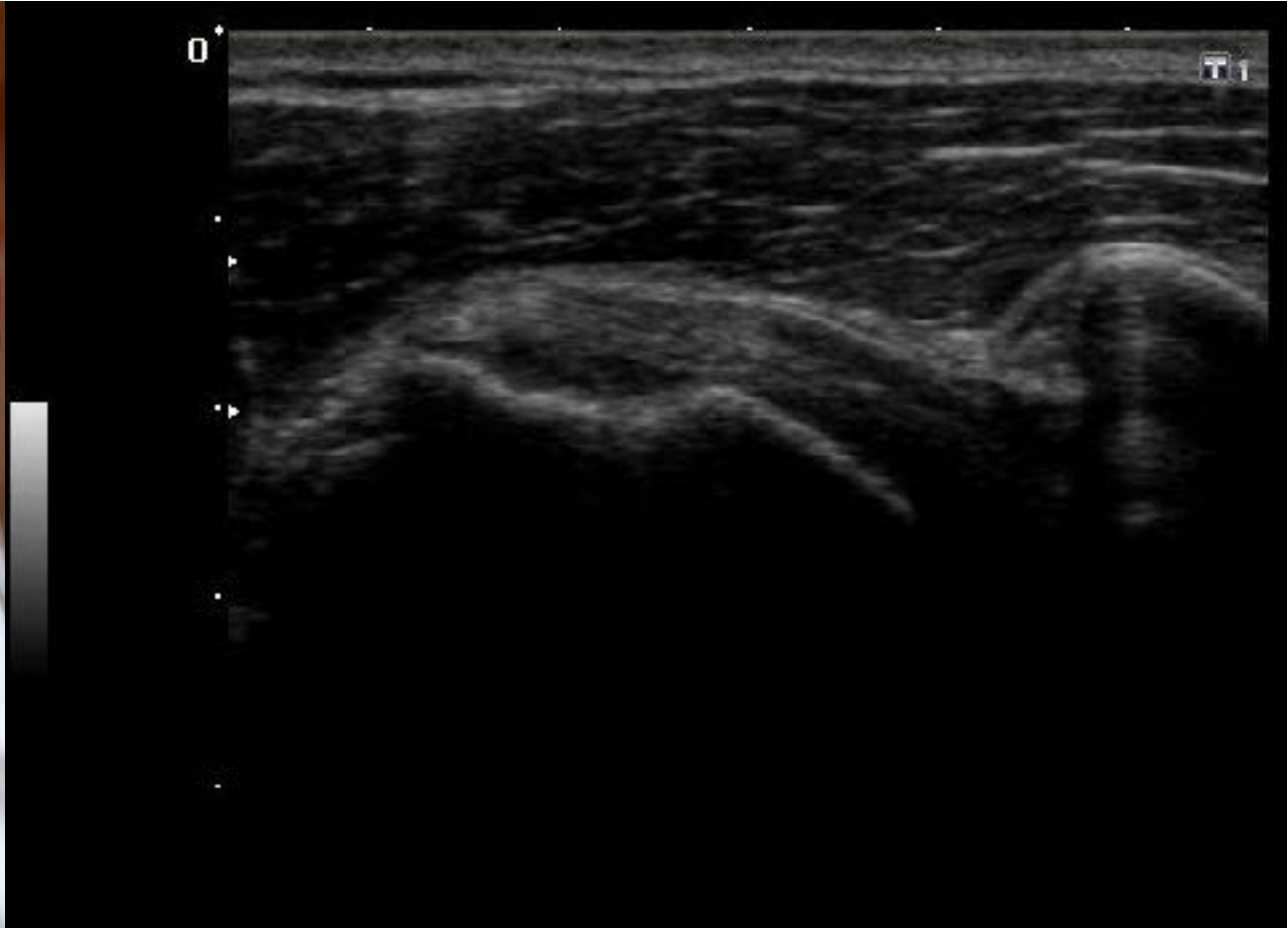
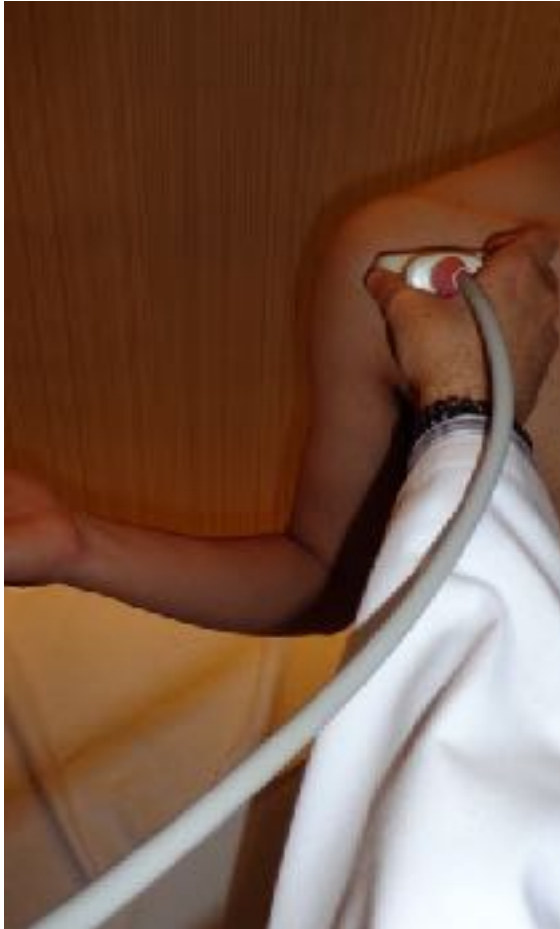
1. Ms bíceps braquial: transversal



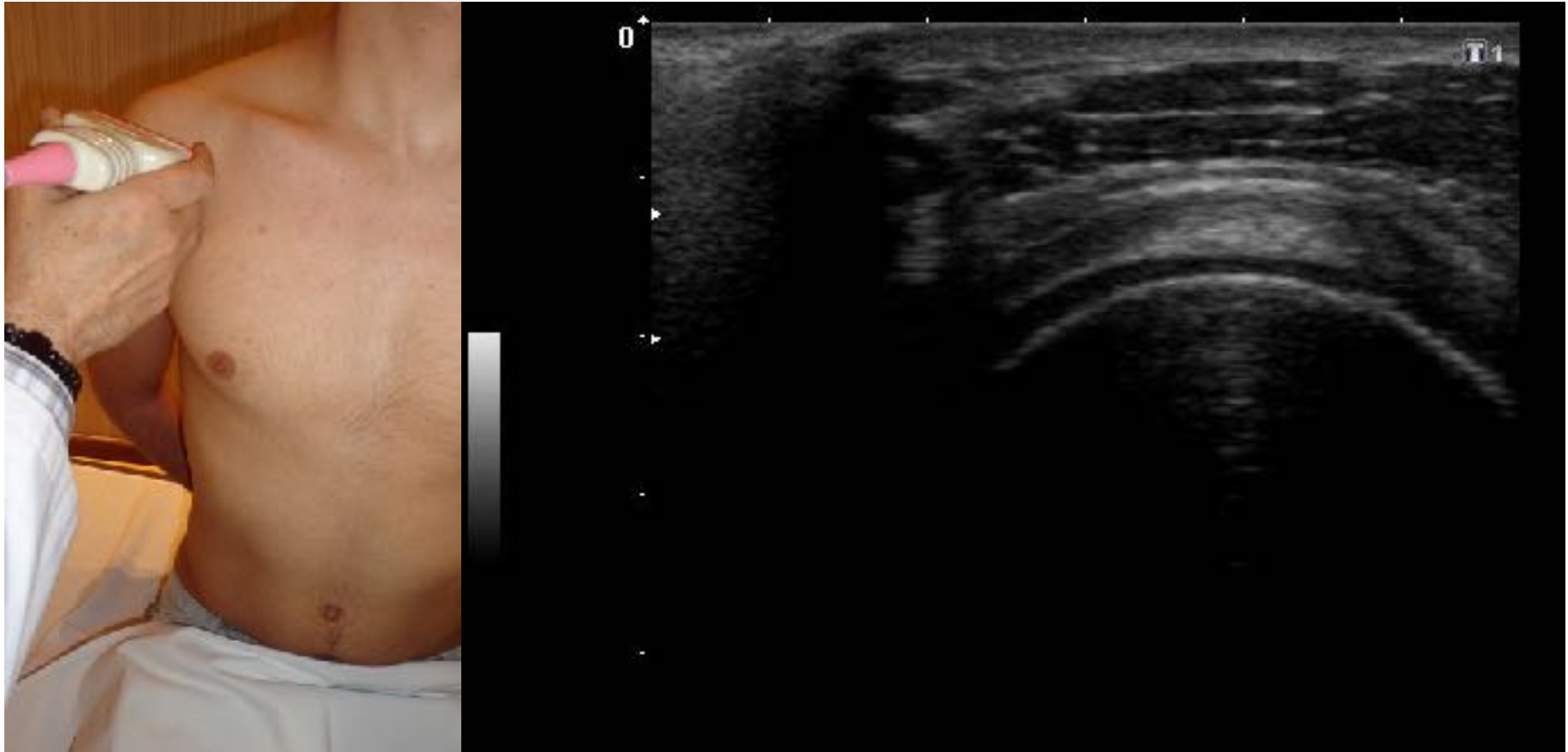
1. Ms bíceps braquial: longitudinal



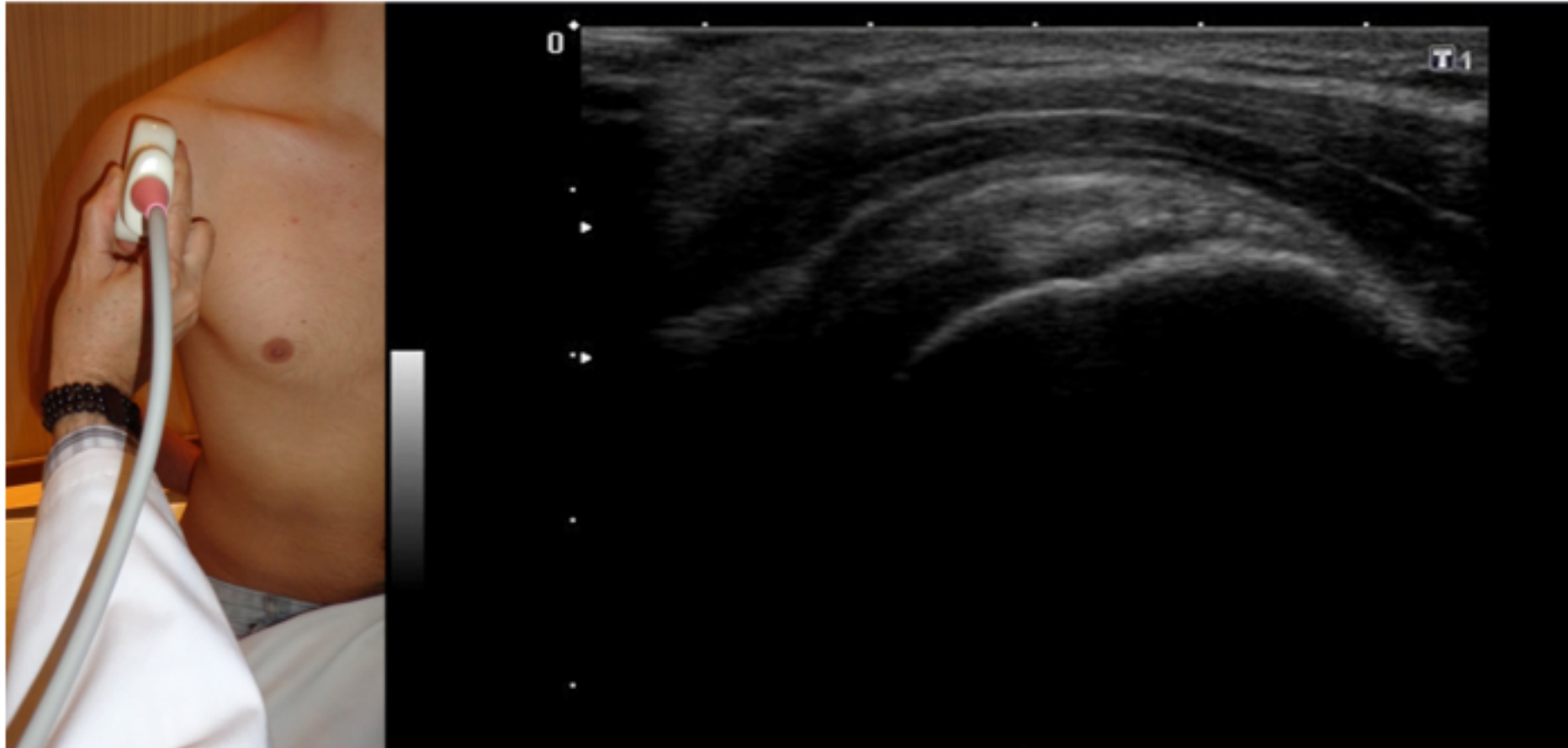
2. Ms subescapular: longitudinal



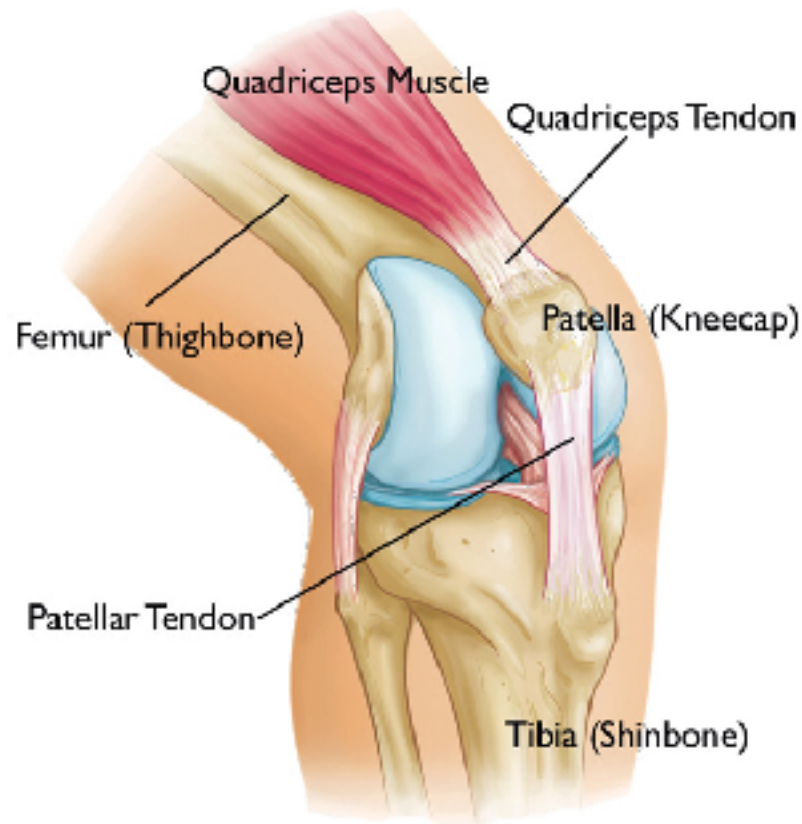
3. Ms supra-espínós: transversal



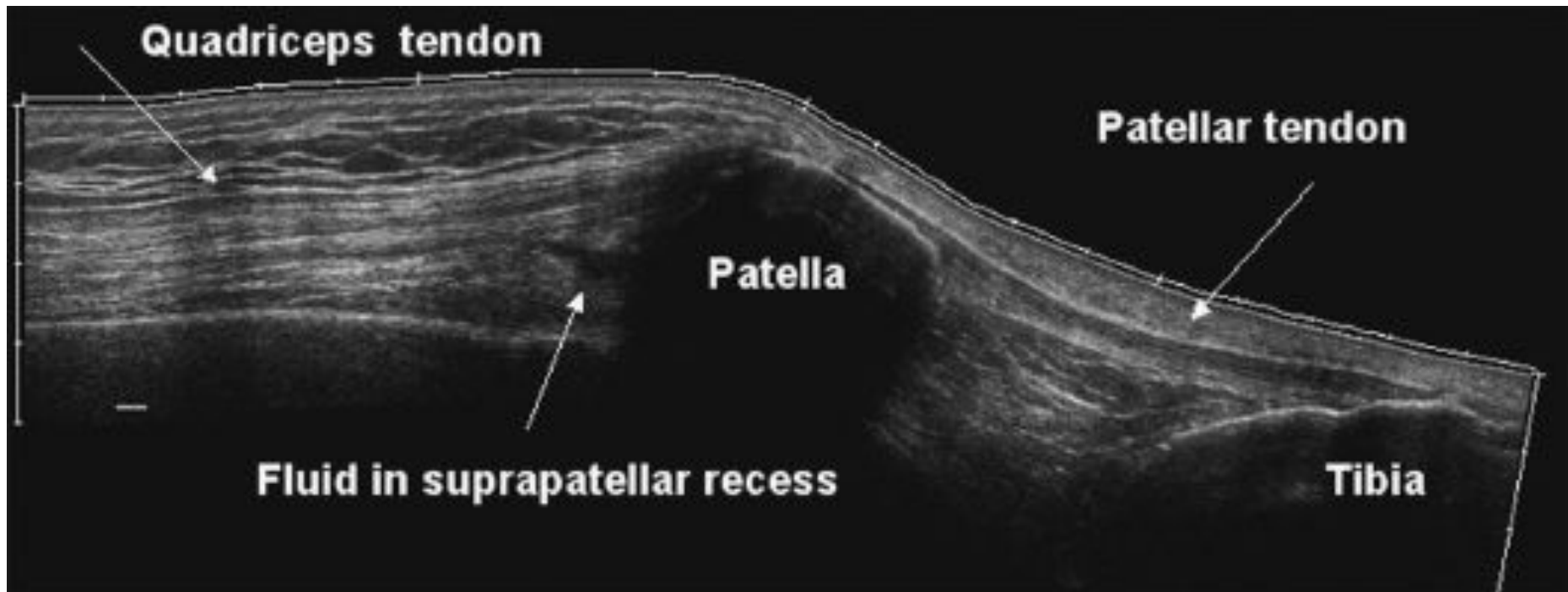
3. Ms supra-espinós: longitudinal



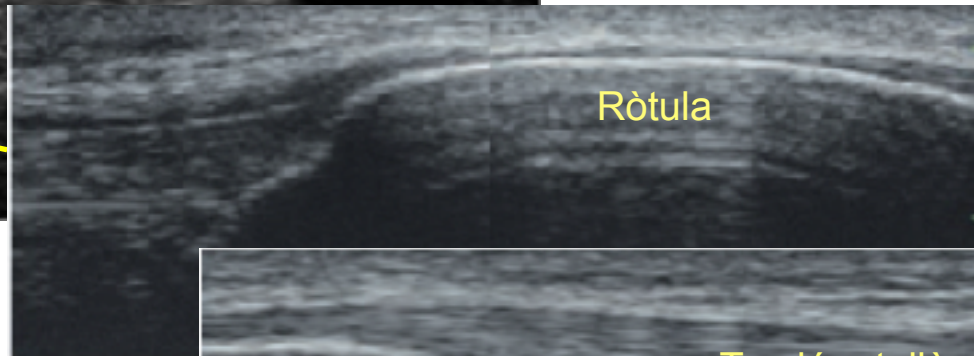
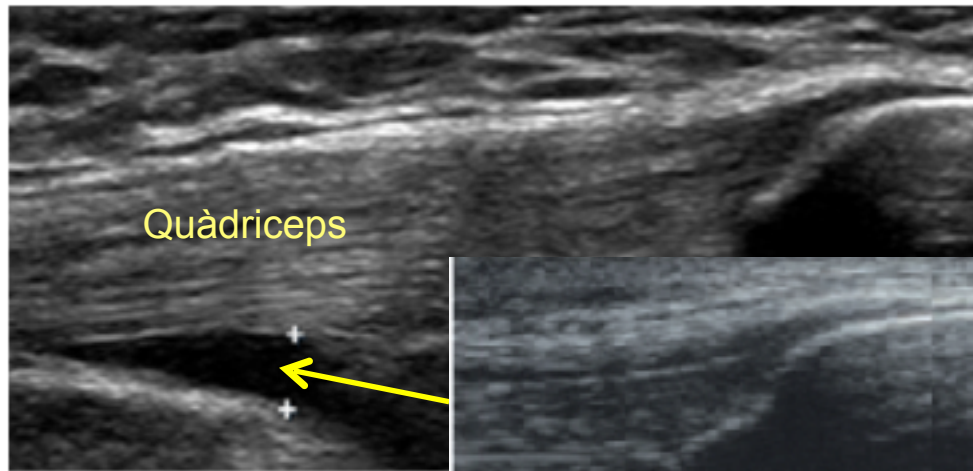
Genoll: repàs anatòmic



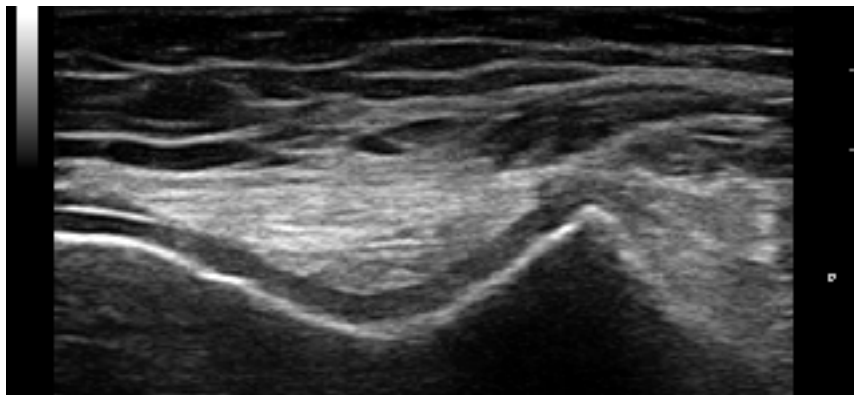
Tendó quadricipital i rotulià



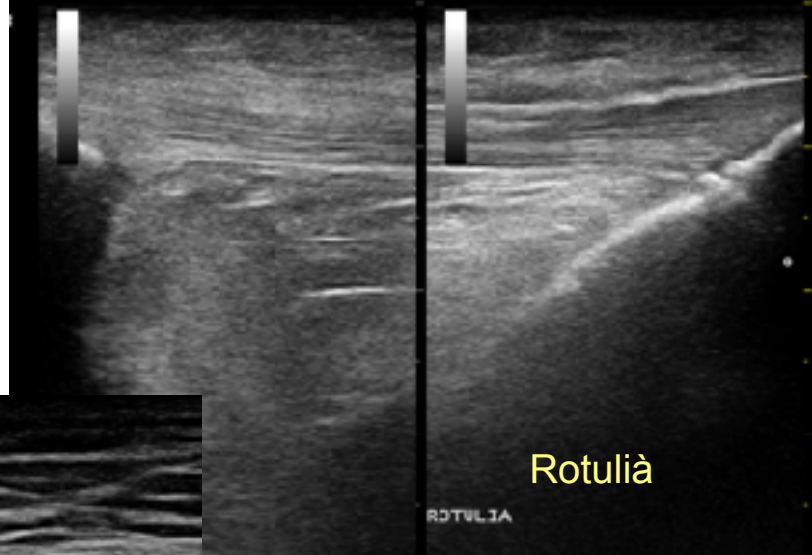
Tendó quadricipital i rotulià



Tendó quadricipital i rotulià



Quàdr. transv.



Rotulià

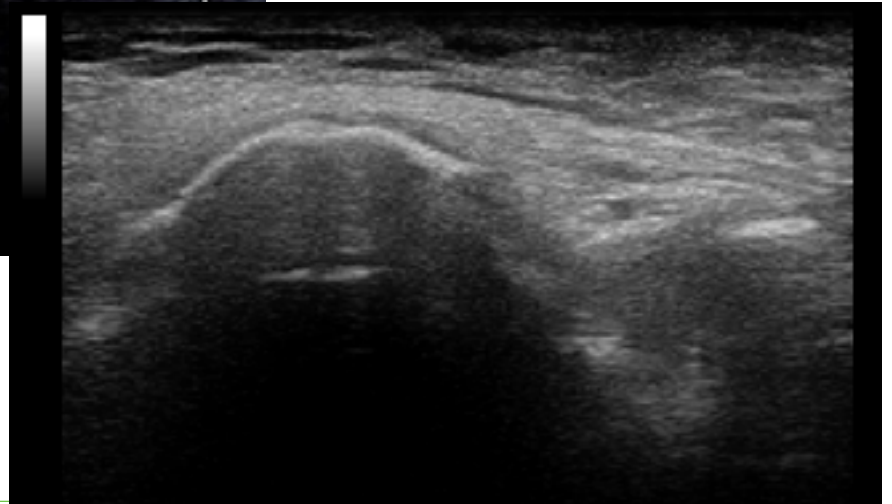
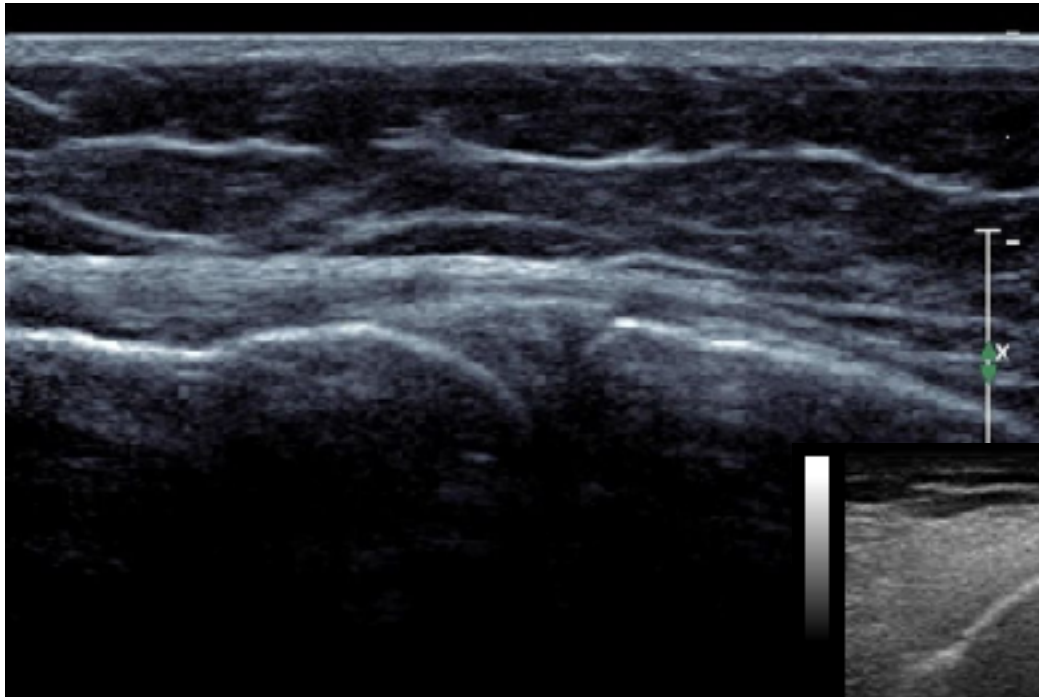


Quàdr. long.

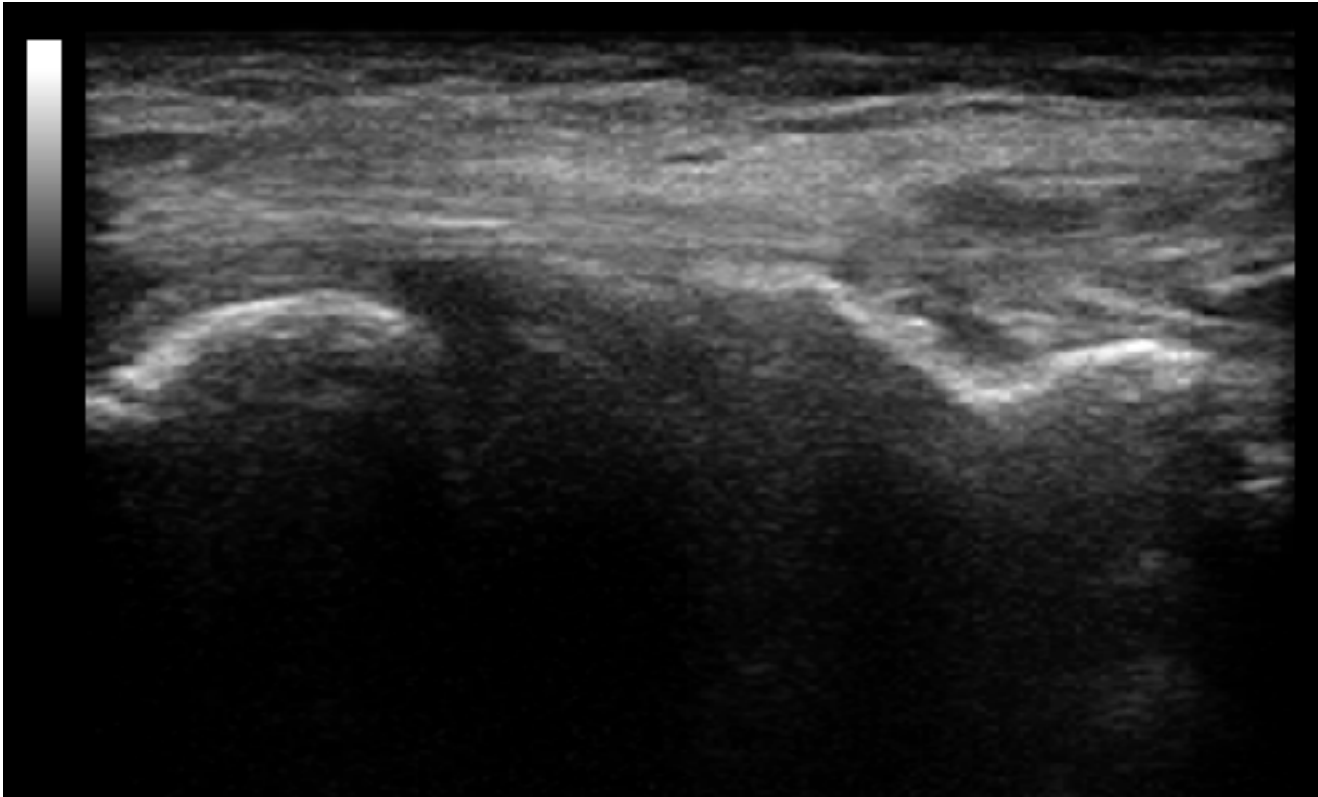
CUADR



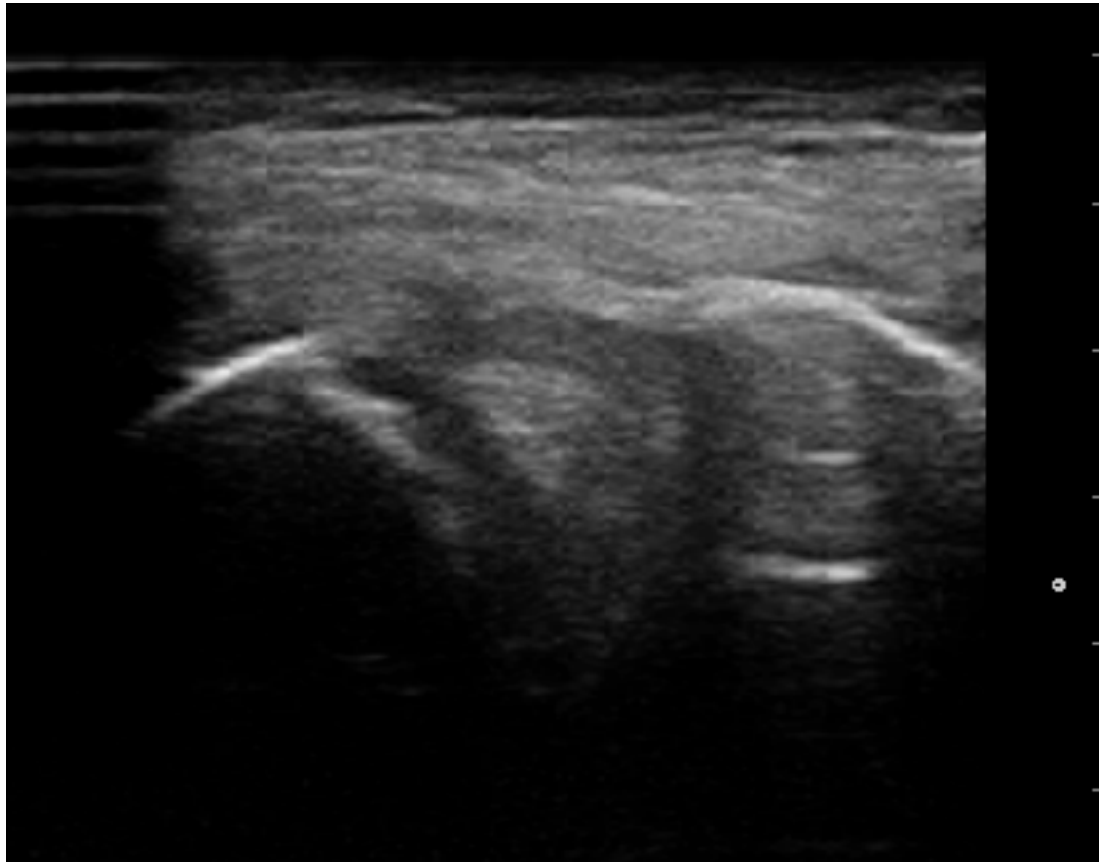
Lligament lateral intern



Lligament lateral extern



Menisc



XX Jornada de Residents: Taller d'ecografia TVP

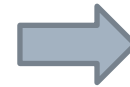
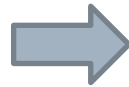
GdT ecoAP



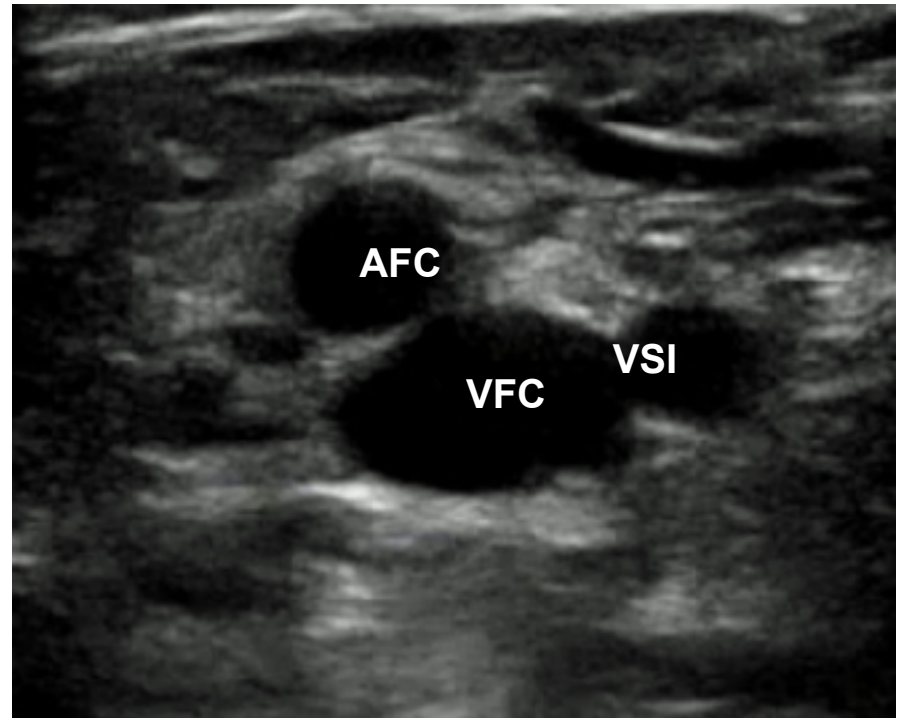
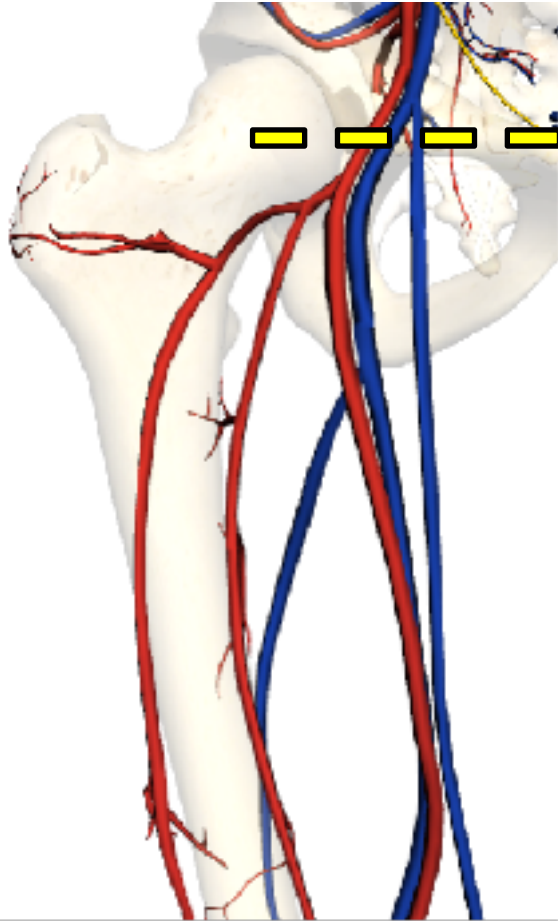
Tècnica



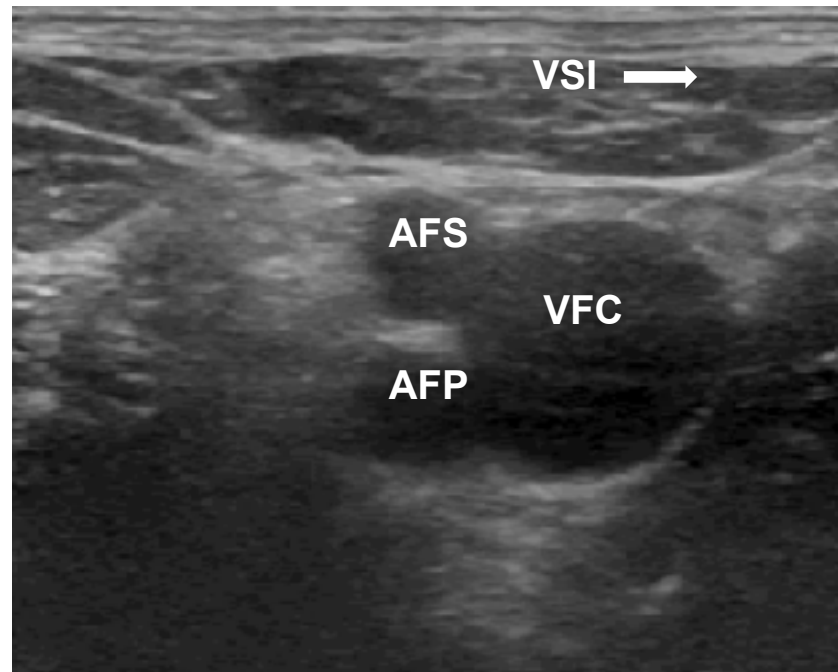
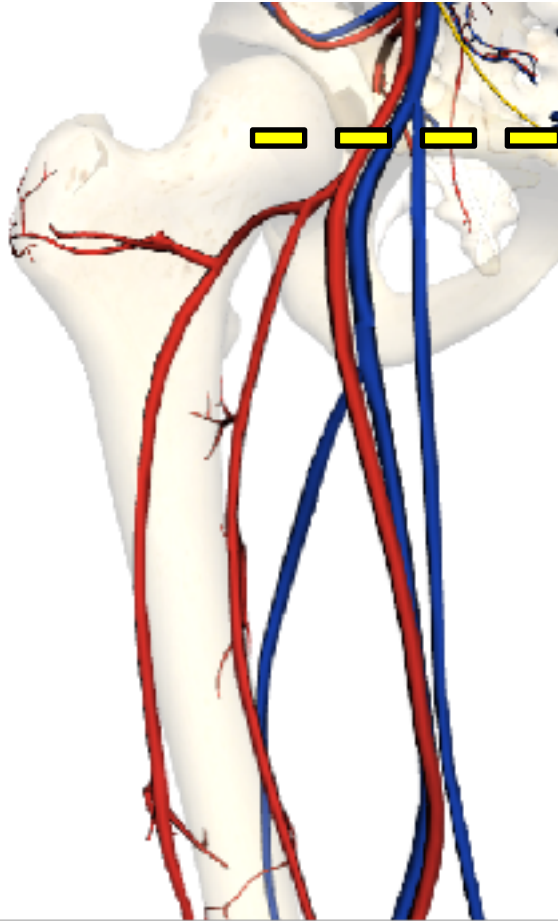
**Sonda lineal
d'alta freqüència
(5 – 7,5 MHz)**



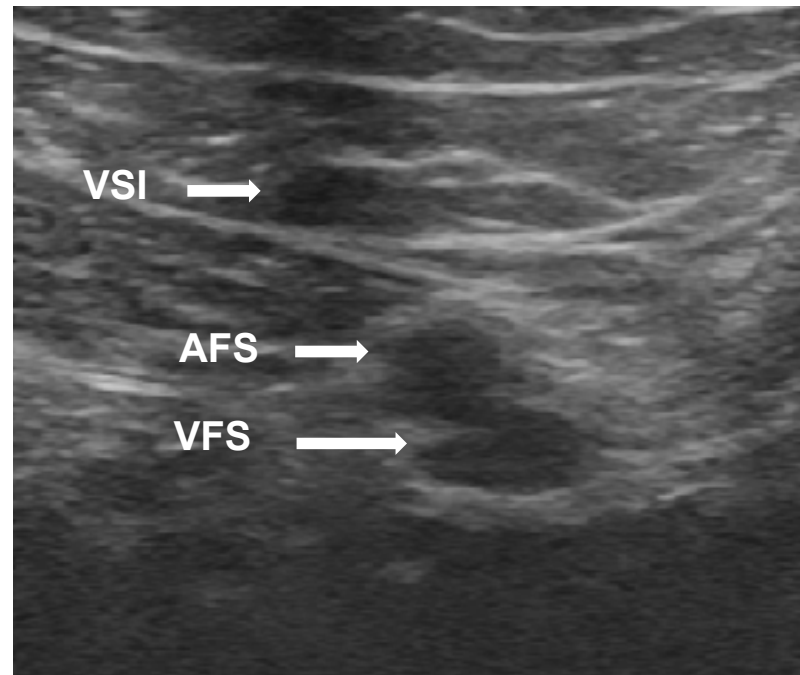
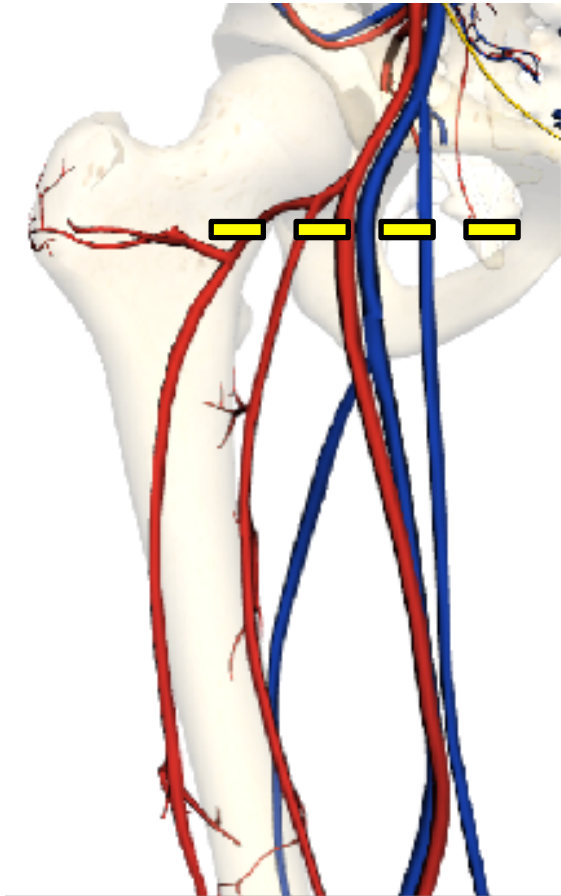
Tècnica



Tècnica



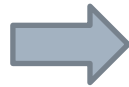
Tècnica



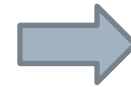
Tècnica



**Sonda lineal
d'alta freqüència
(5 – 7,5 MHz)**



**Decúbit
lateral**

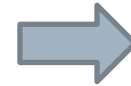
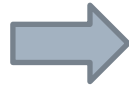


8

Tècnica

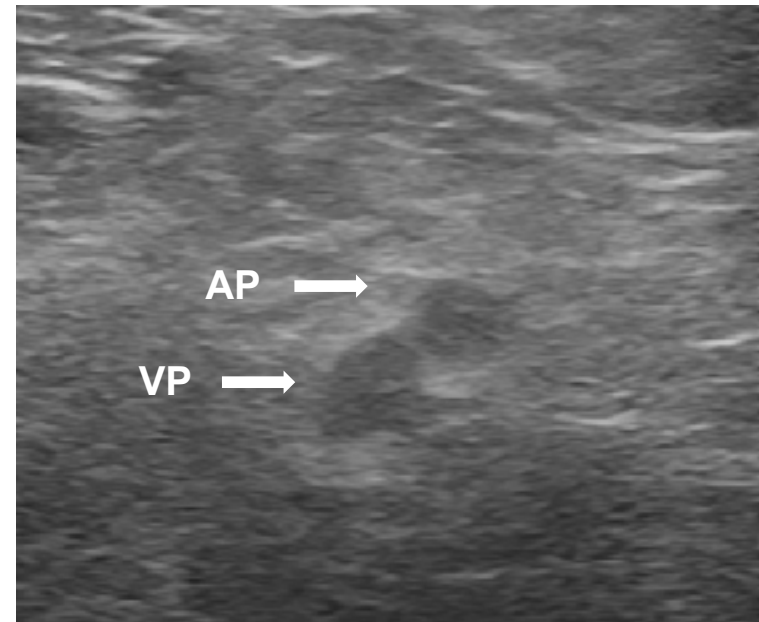
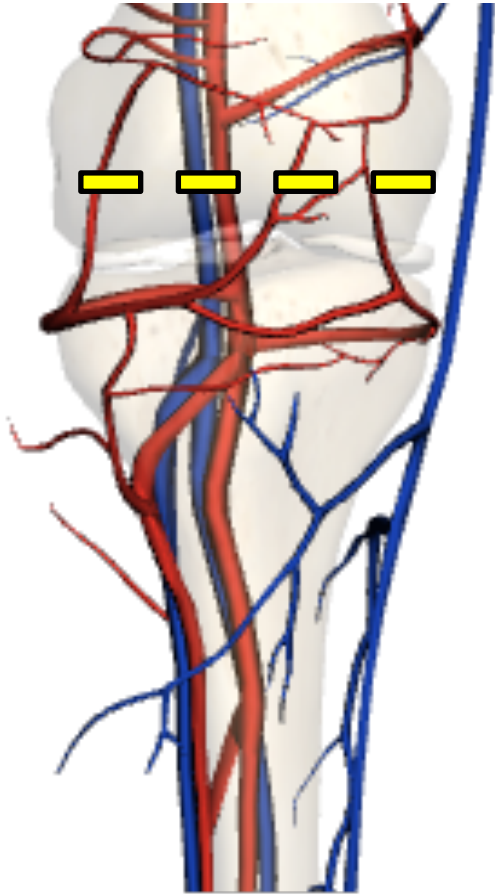


**Sonda lineal
d'alta freqüència
(5 – 7,5 MHz)**

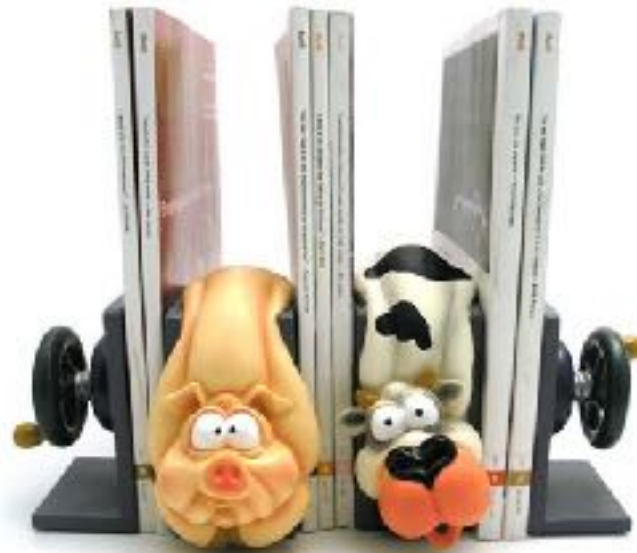


8

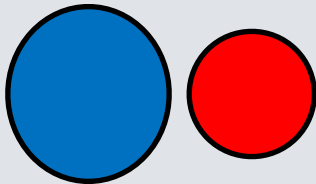
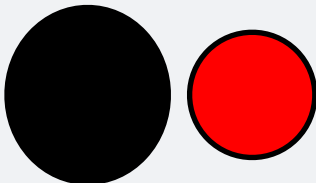
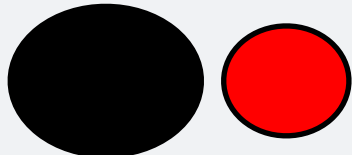
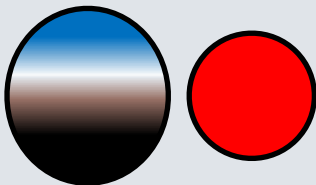
Tècnica



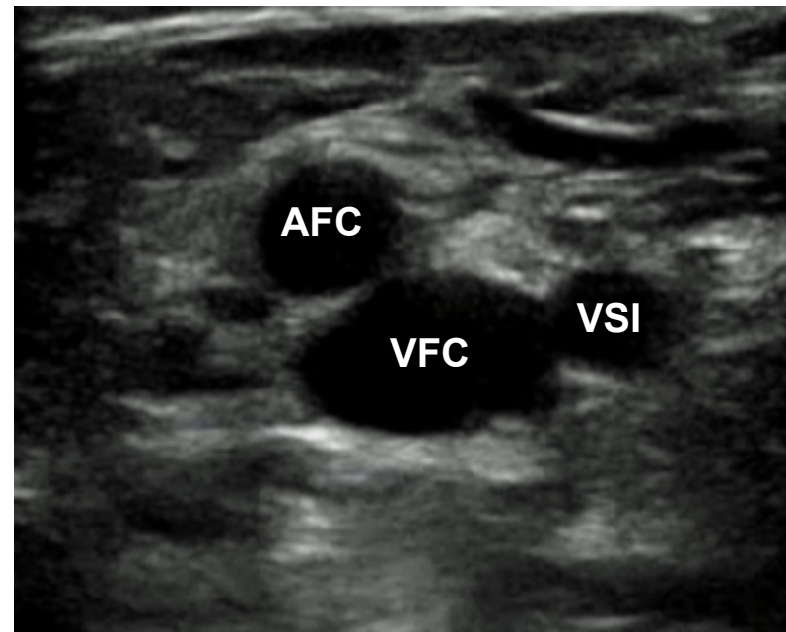
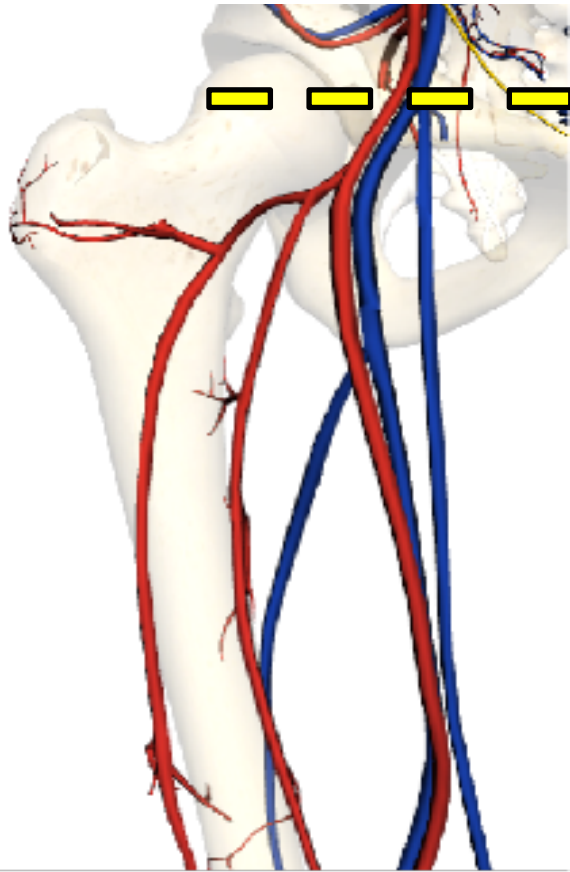
Signes ecogràfics de TVP



Compressibilitat és el signe més fiable

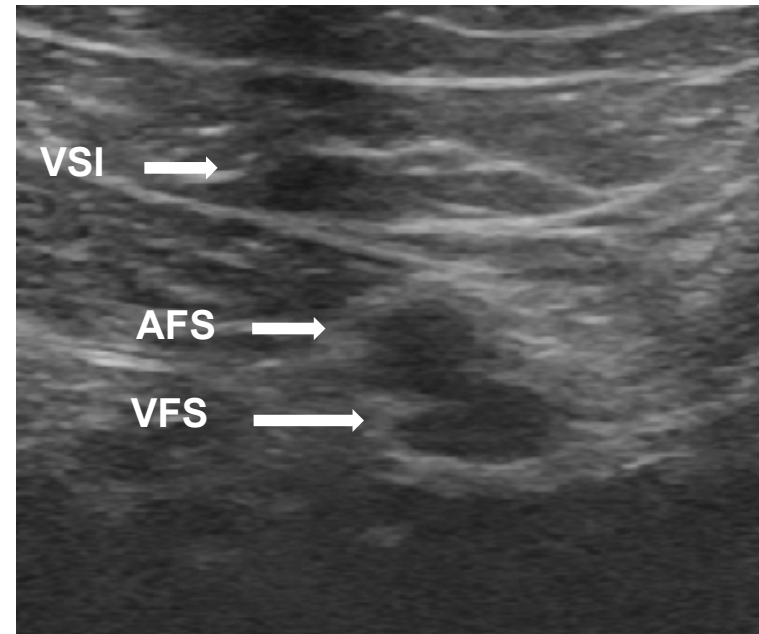
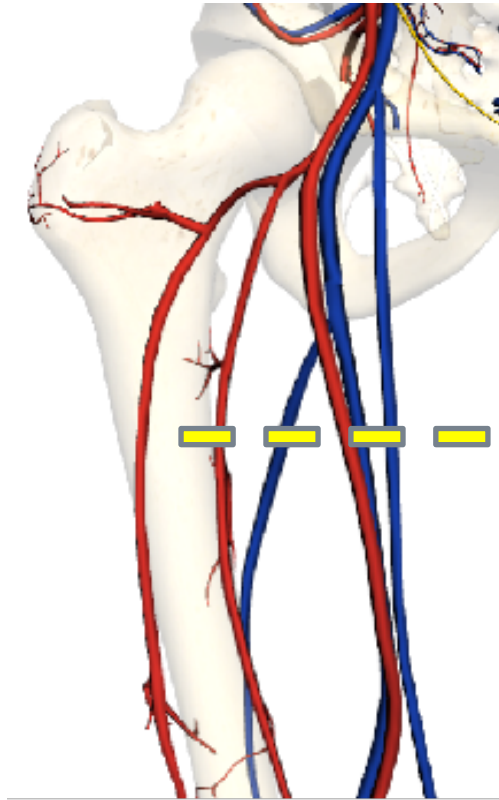
	Sense compressió	Amb compressió
Normal		
Ocupació completa		
Ocupació parcial		

Compressibilitat

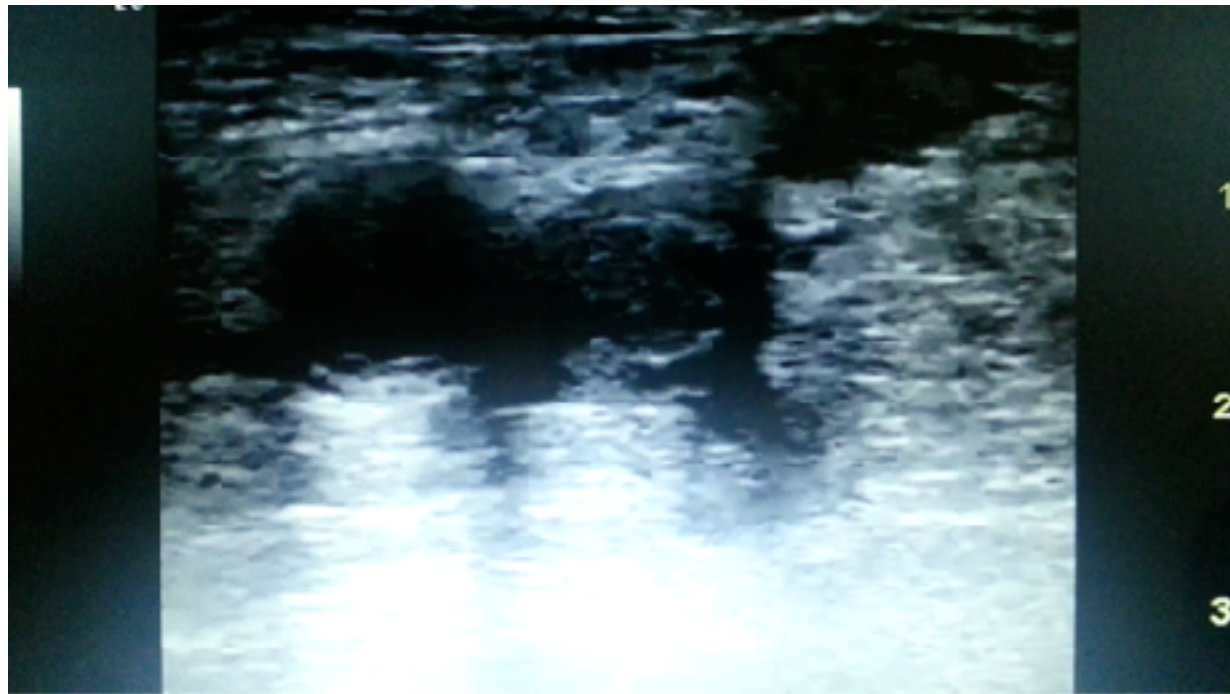


1.1 Introduction 1.2 Background 1.3 Objectives 1.4 Scope 1.5 Methodology 1.6 Results 1.7 Conclusion 1.8 References 1.9 Appendix 1.10 Index 1.11 Glossary 1.12 Abbreviations 1.13 Acronyms 1.14 Footnotes 1.15 Endnotes 1.16 References 1.17 Appendix 1.18 Index 1.19 Glossary 1.20 Abbreviations 1.21 Acronyms 1.22 Footnotes 1.23 Endnotes 1.24 References 1.25 Appendix 1.26 Index 1.27 Glossary 1.28 Abbreviations 1.29 Acronyms 1.30 Footnotes 1.31 Endnotes 1.32 References 1.33 Appendix 1.34 Index 1.35 Glossary 1.36 Abbreviations 1.37 Acronyms 1.38 Footnotes 1.39 Endnotes 1.40 References 1.41 Appendix 1.42 Index 1.43 Glossary 1.44 Abbreviations 1.45 Acronyms 1.46 Footnotes 1.47 Endnotes 1.48 References 1.49 Appendix 1.50 Index 1.51 Glossary 1.52 Abbreviations 1.53 Acronyms 1.54 Footnotes 1.55 Endnotes 1.56 References 1.57 Appendix 1.58 Index 1.59 Glossary 1.60 Abbreviations 1.61 Acronyms 1.62 Footnotes 1.63 Endnotes 1.64 References 1.65 Appendix 1.66 Index 1.67 Glossary 1.68 Abbreviations 1.69 Acronyms 1.70 Footnotes 1.71 Endnotes 1.72 References 1.73 Appendix 1.74 Index 1.75 Glossary 1.76 Abbreviations 1.77 Acronyms 1.78 Footnotes 1.79 Endnotes 1.80 References 1.81 Appendix 1.82 Index 1.83 Glossary 1.84 Abbreviations 1.85 Acronyms 1.86 Footnotes 1.87 Endnotes 1.88 References 1.89 Appendix 1.90 Index 1.91 Glossary 1.92 Abbreviations 1.93 Acronyms 1.94 Footnotes 1.95 Endnotes 1.96 References 1.97 Appendix 1.98 Index 1.99 Glossary 1.100 Abbreviations 1.101 Acronyms 1.102 Footnotes 1.103 Endnotes 1.104 References 1.105 Appendix 1.106 Index 1.107 Glossary 1.108 Abbreviations 1.109 Acronyms 1.110 Footnotes 1.111 Endnotes 1.112 References 1.113 Appendix 1.114 Index 1.115 Glossary 1.116 Abbreviations 1.117 Acronyms 1.118 Footnotes 1.119 Endnotes 1.120 References 1.121 Appendix 1.122 Index 1.123 Glossary 1.124 Abbreviations 1.125 Acronyms 1.126 Footnotes 1.127 Endnotes 1.128 References 1.129 Appendix 1.130 Index 1.131 Glossary 1.132 Abbreviations 1.133 Acronyms 1.134 Footnotes 1.135 Endnotes 1.136 References 1.137 Appendix 1.138 Index 1.139 Glossary 1.140 Abbreviations 1.141 Acronyms 1.142 Footnotes 1.143 Endnotes 1.144 References 1.145 Appendix 1.146 Index 1.147 Glossary 1.148 Abbreviations 1.149 Acronyms 1.150 Footnotes 1.151 Endnotes 1.152 References 1.153 Appendix 1.154 Index 1.155 Glossary 1.156 Abbreviations 1.157 Acronyms 1.158 Footnotes 1.159 Endnotes 1.160 References 1.161 Appendix 1.162 Index 1.163 Glossary 1.164 Abbreviations 1.165 Acronyms 1.166 Footnotes 1.167 Endnotes 1.168 References 1.169 Appendix 1.170 Index 1.171 Glossary 1.172 Abbreviations 1.173 Acronyms 1.174 Footnotes 1.175 Endnotes 1.176 References 1.177 Appendix 1.178 Index 1.179 Glossary 1.180 Abbreviations 1.181 Acronyms 1.182 Footnotes 1.183 Endnotes 1.184 References 1.185 Appendix 1.186 Index 1.187 Glossary 1.188 Abbreviations 1.189 Acronyms 1.190 Footnotes 1.191 Endnotes 1.192 References 1.193 Appendix 1.194 Index 1.195 Glossary 1.196 Abbreviations 1.197 Acronyms 1.198 Footnotes 1.199 Endnotes 1.200 References</
--

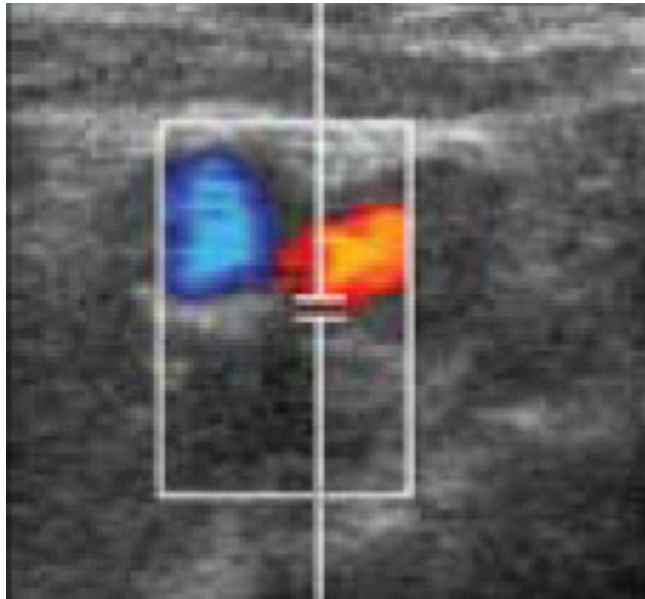
Compressibilitat



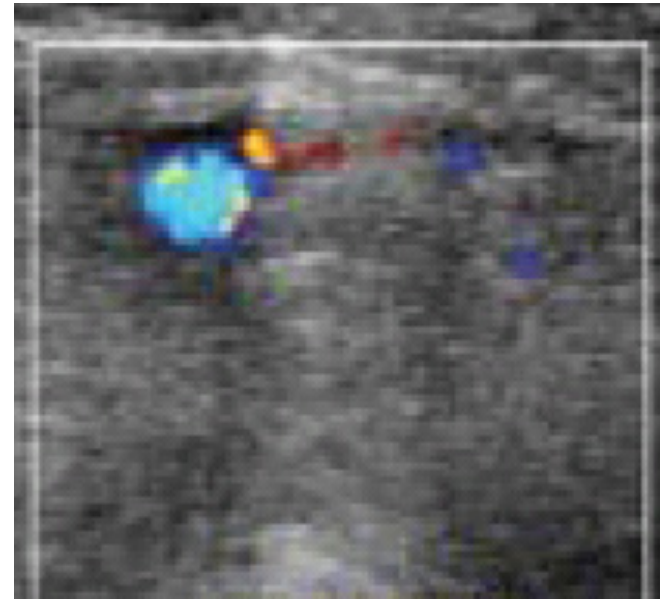
Trombosi femoral comú



Doppler color

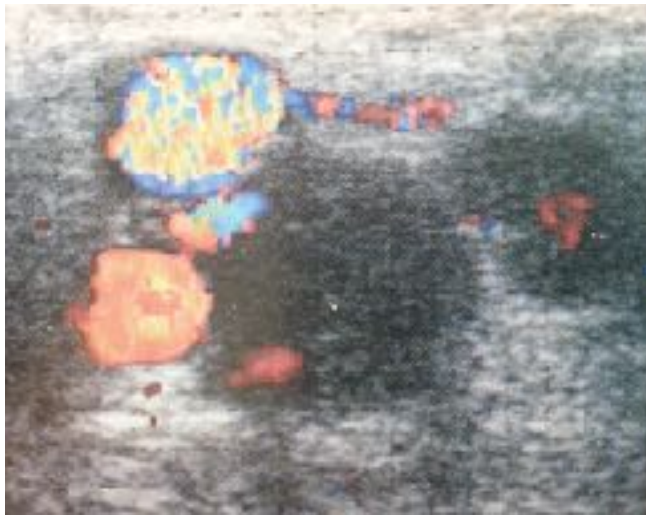


Normal

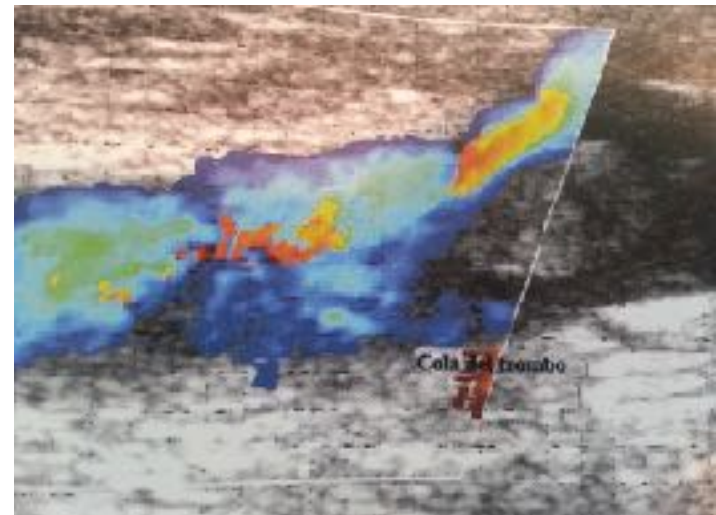


TVP completa

Doppler color

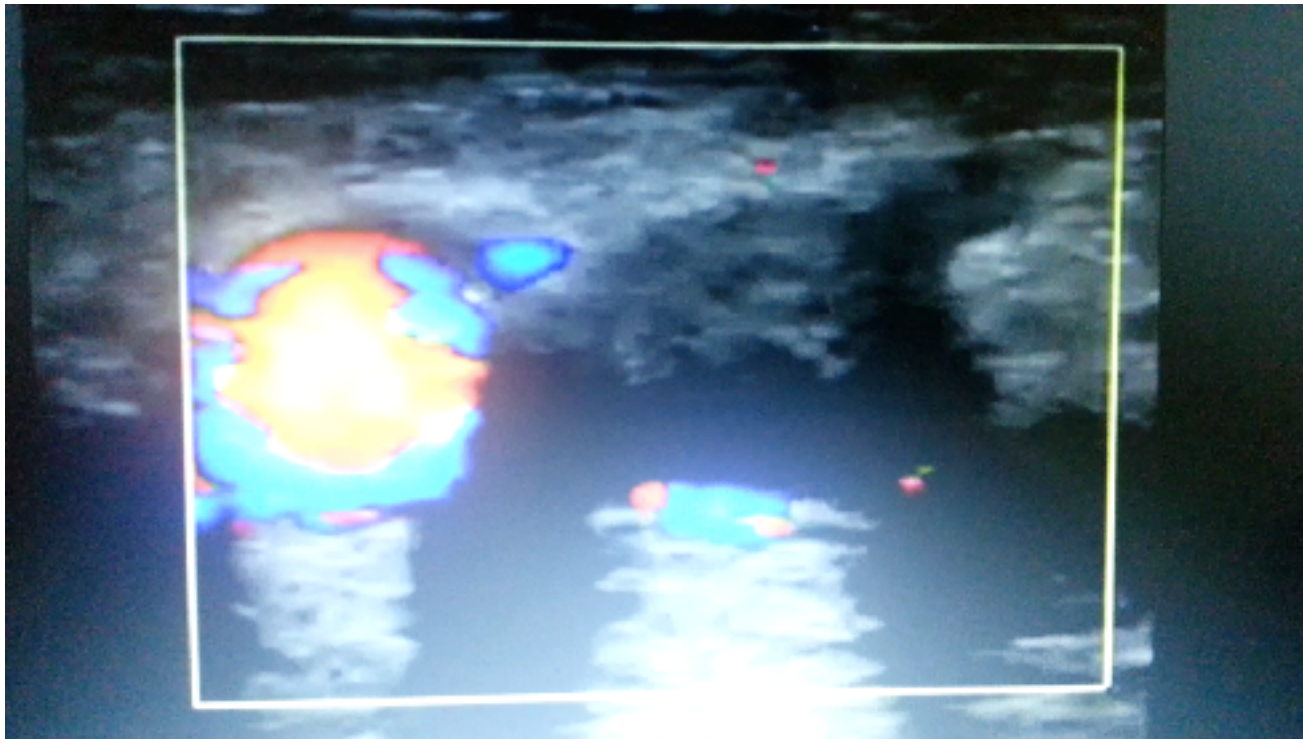


Transversal

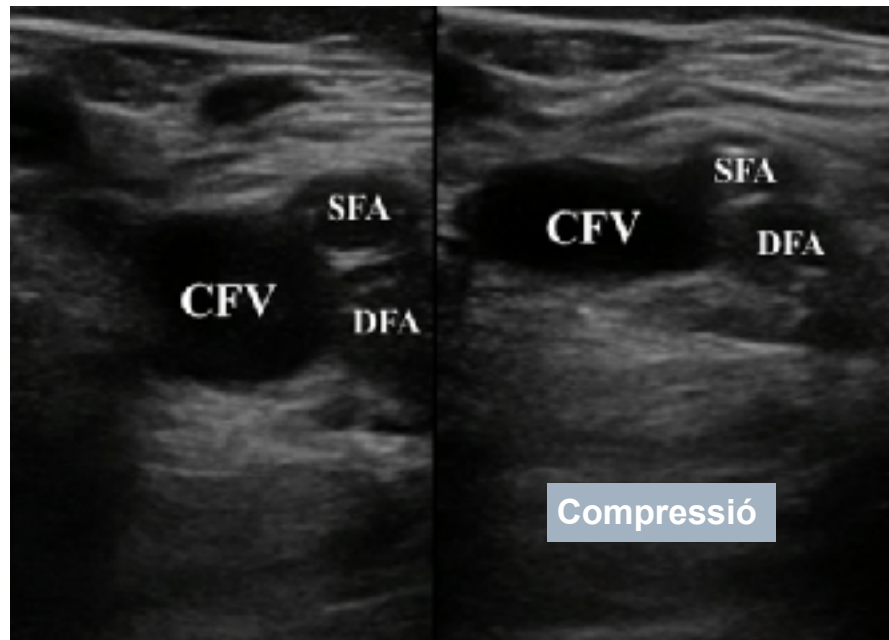


Longitudinal

Trombosi femoral comú

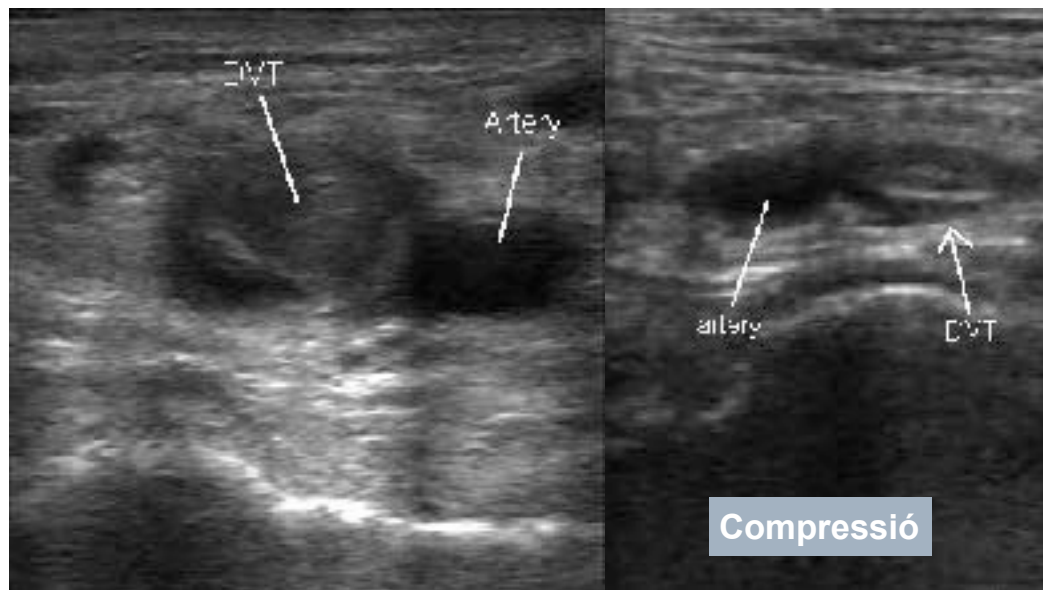


Ecogenicitat



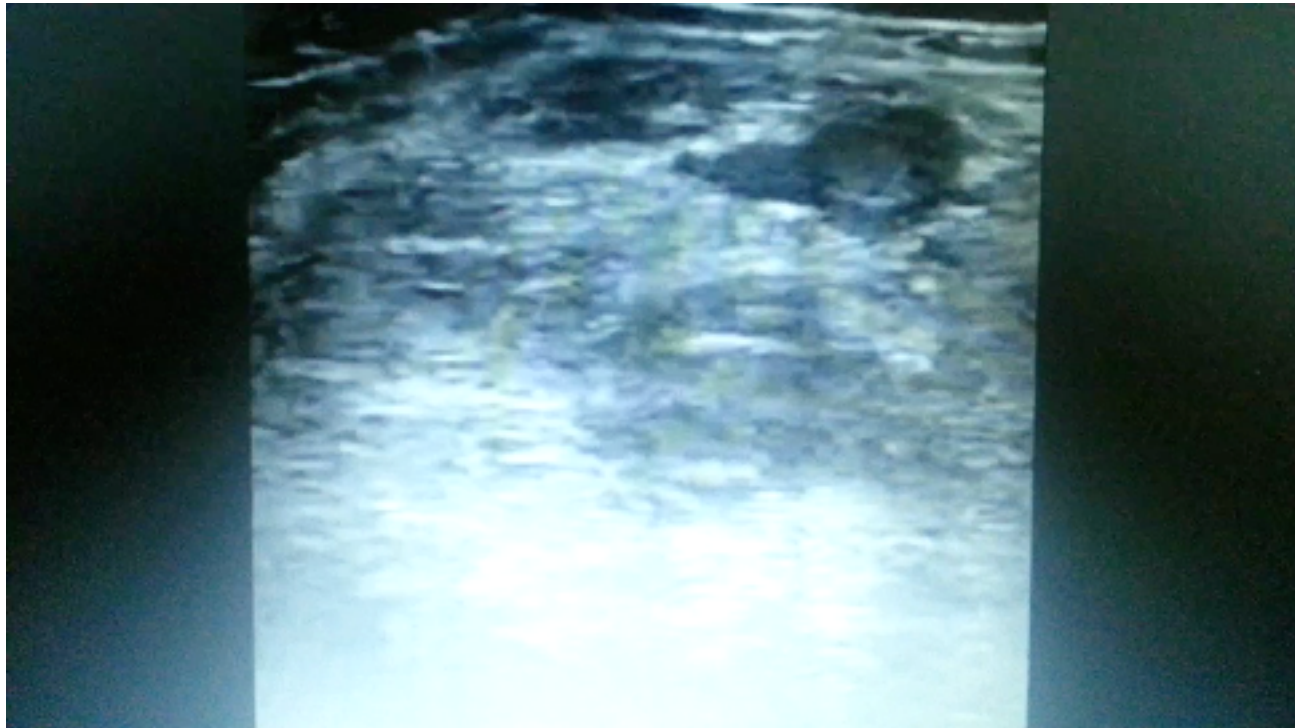
Hipoecogeneïtat

Ecogenicitat



Hiperecogeneïtat

Trombosi poplitia





ecoap@camfic.org

