L'ECOGRAFIA DEL PIEDE
METODICA CONVENZIONALE E CON WATER-BATH

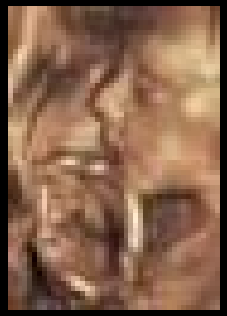
Dott. F.Papa, Dott.ssa G.Monticone
Dott.ssa A.Pausania, Dott. A.Cribari

Roma, 12 aprile 2008

costo contenuto;

indolore:
non richiede esposizione a radiazioni ionizzanti;

3-D



visualizzazione ottima delle aree di versamento fluido;

studio della vascolarizzazione (color-doppler)

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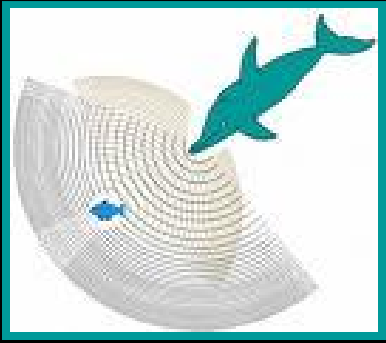
1.4 GHz



20 – 170 MHz

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Frequency (Hz)	Name	Unit
10^{0}	Hertz	Hz
10^{1}	Dekahertz	daHz
10^{2}	Hektohertz	hHz
10^{3}	Kilohertz	kHz
10^{6}	Megahertz	MHz
10^{9}	Gigahertz	GHz
10^{12}	Terahertz	THz
10^{15}	Petahertz	PHz
10^{18}	Exahertz	EHz
10^{21}	Zettahertz	ZHz
10^{24}	Yottahertz	YHz
10^{-1}	Decihertz	dHz
10^{-2}	Centihertz	cHz
10^{-3}	Millihertz	mHz
10^{-6}	Microhertz	μHz
10^{-9}	Nanohertz	nHz
10^{-12}	Picohertz	pHz
10^{-15}	Femtohertz	fHz
10^{-18}	Attohertz	aHz
10^{-21}	Zeptohertz	zHz
10^{-24}	Yoktohertz	yHz

è possibile indagare...

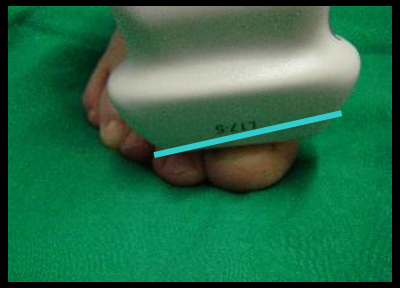
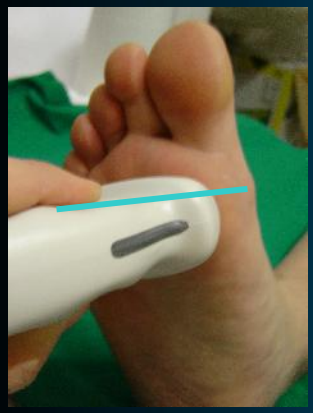
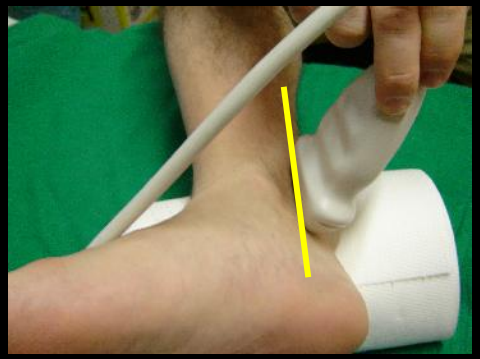
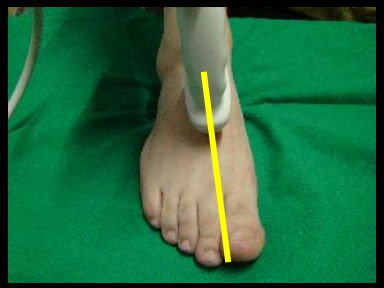
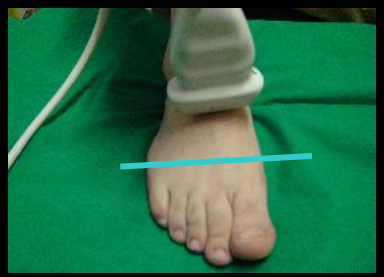
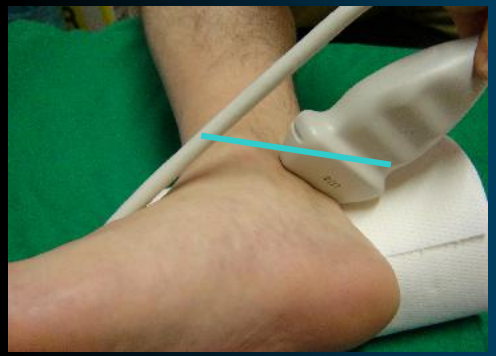
studio

- **cute** — *fibromi lipomi corpi estranei flogosi*; *ipercheratosi verruche cicatrici*
- **sottocute** — *capsuliti borsiti calcificazioni*
- **borse e capsule art.** — *capsuliti borsiti calcificazioni*
- **legamenti** — *lesioni parziali totali distrazioni*
- **vasi** — *stenosi occlusioni calcificazioni*
- **nervi** — *neuromi compressioni*
- **osso** — *microinfrazioni esostosi*
- **tendini** — *tendinosi tendiniti tenosinoviti lesioni*
- **muscoli** — *distrazioni lesioni parziali/totali*
- **fascia plantare** — *flogosi lesioni*
- **articolazioni** — *alterazioni sinoviali versamenti gangli*

conoscenza dell'anatomia ecografica normale
impiego di sonde ad alta frequenza e di dimensioni contenute
confronto bilaterale

PROIEZIONI

LONGITUDINALE TRASVERSALE

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proiezioni

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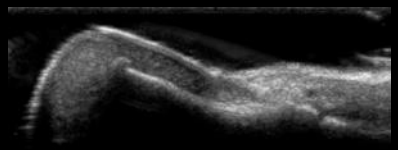
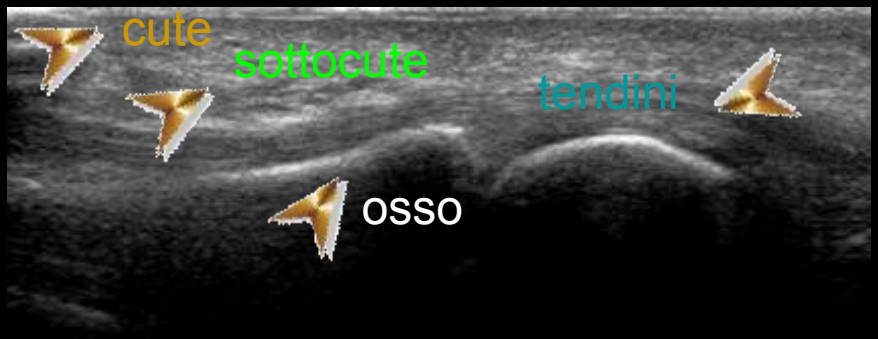
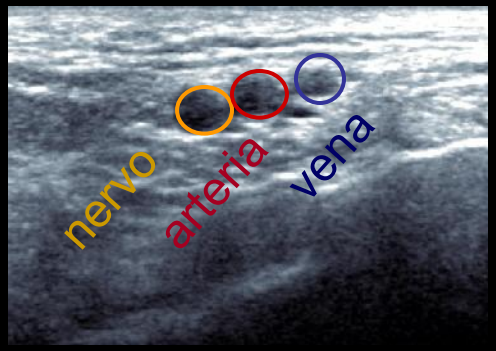
indagini su tessuti molli, osso ed unghia

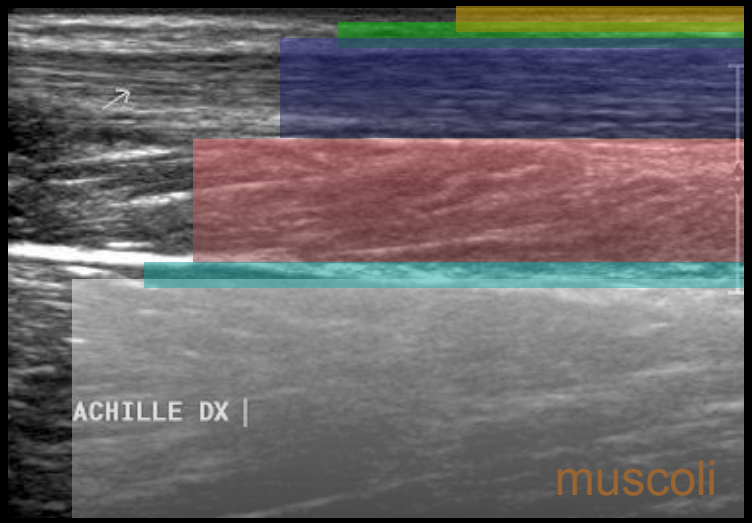


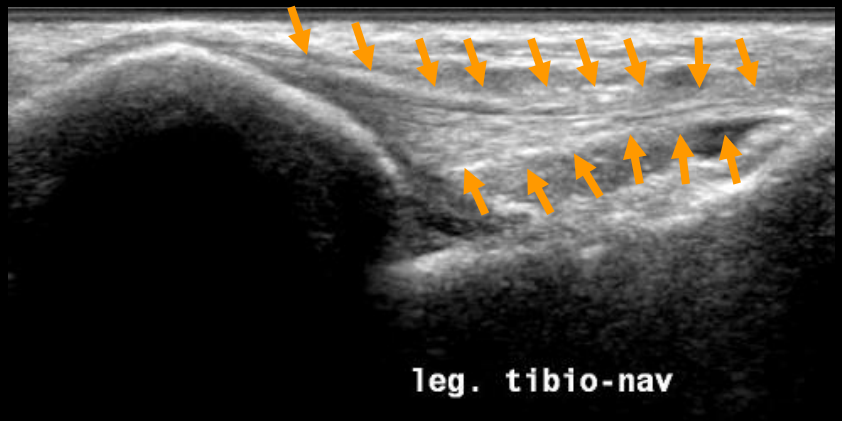
unghia





neoformazioni





legamenti

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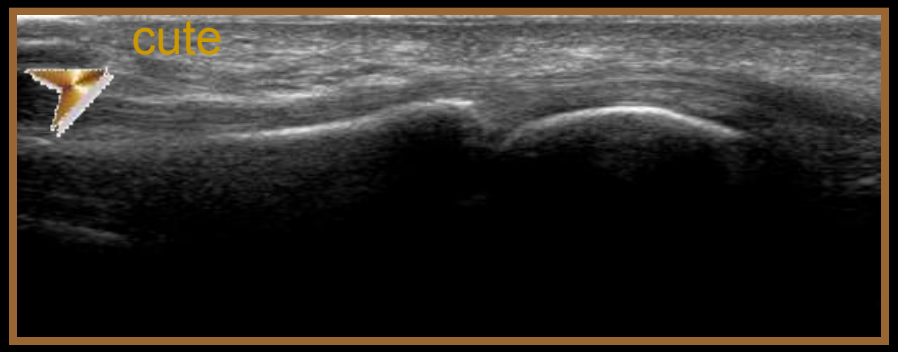

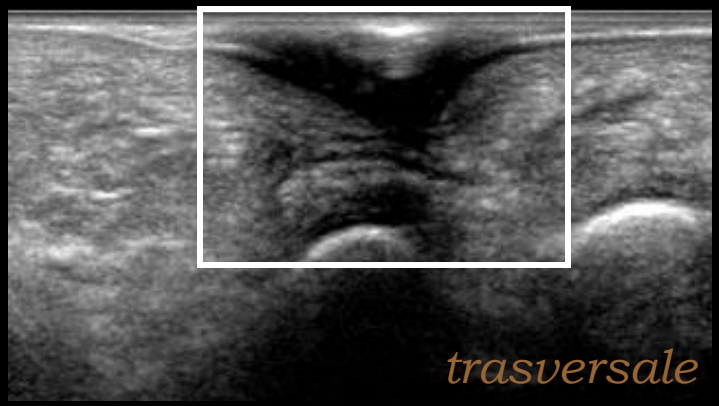

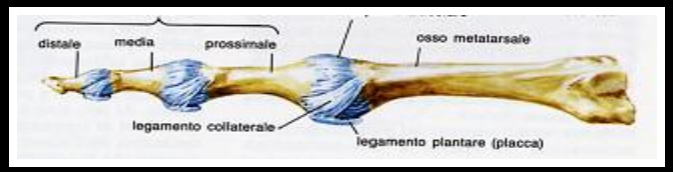

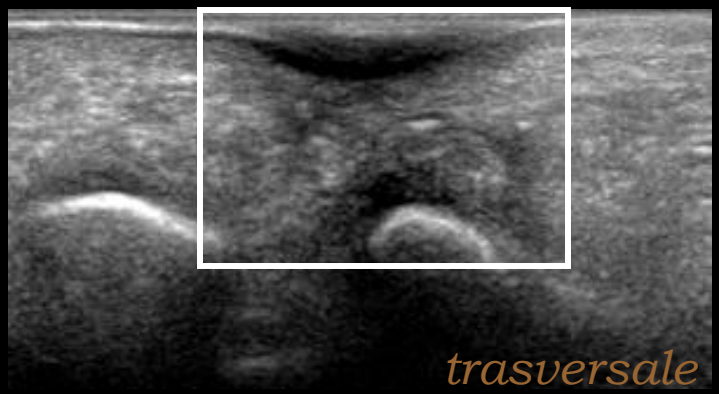

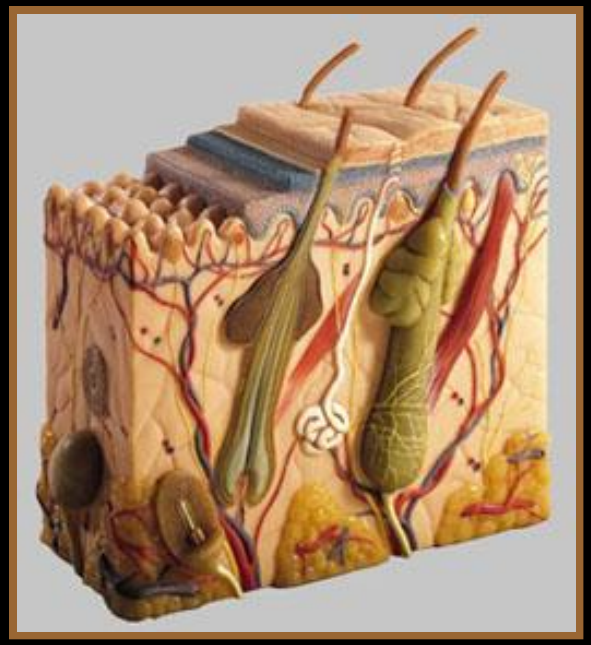

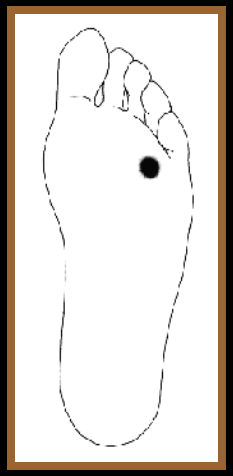

CAVUS

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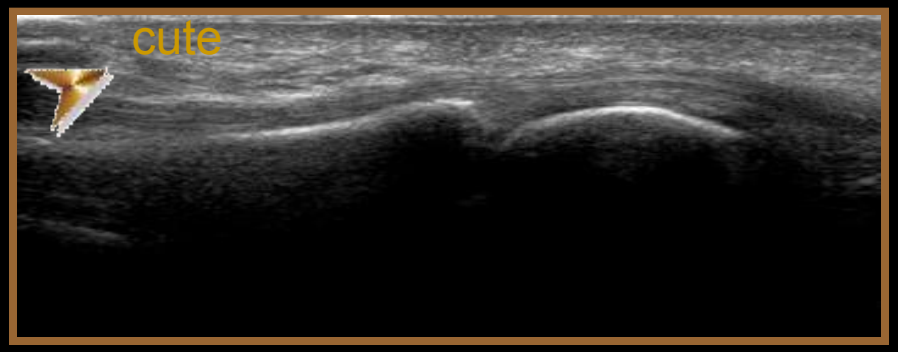

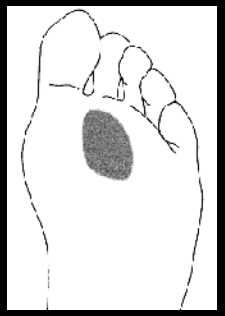

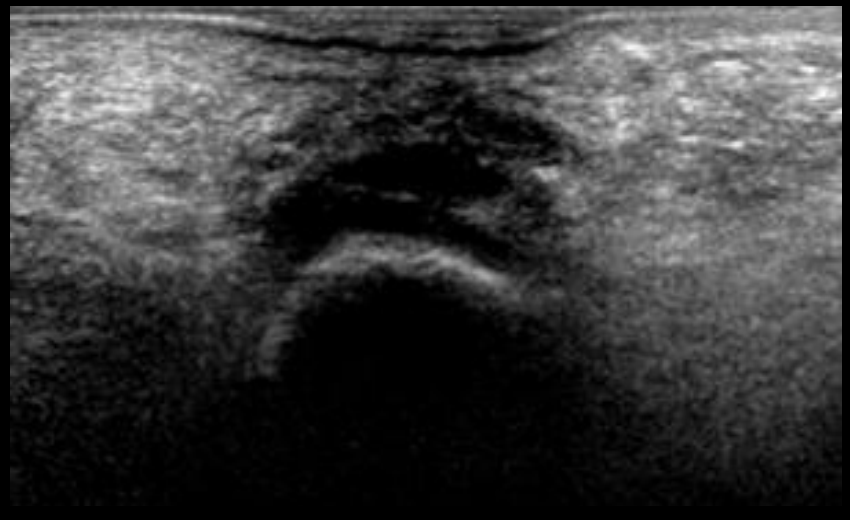

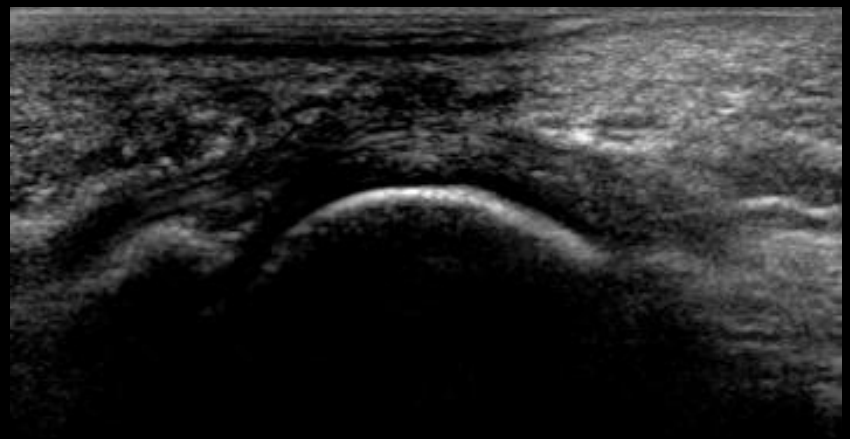

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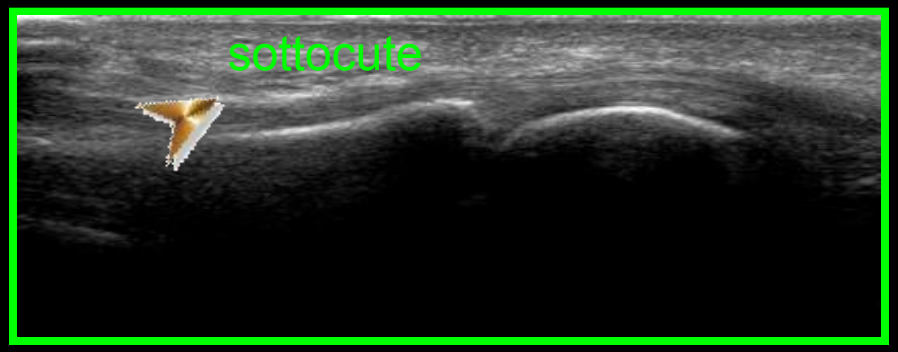
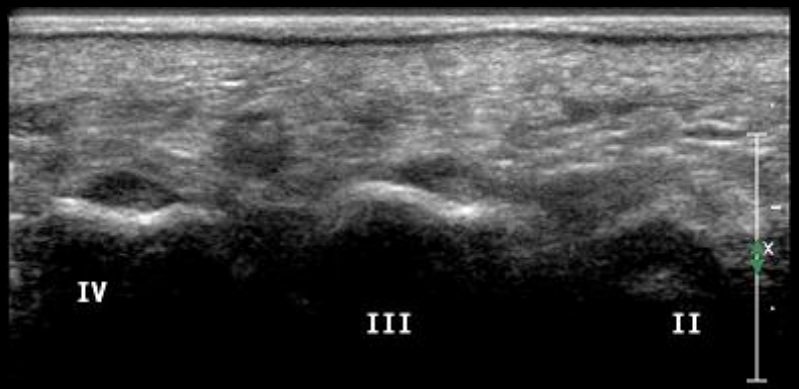
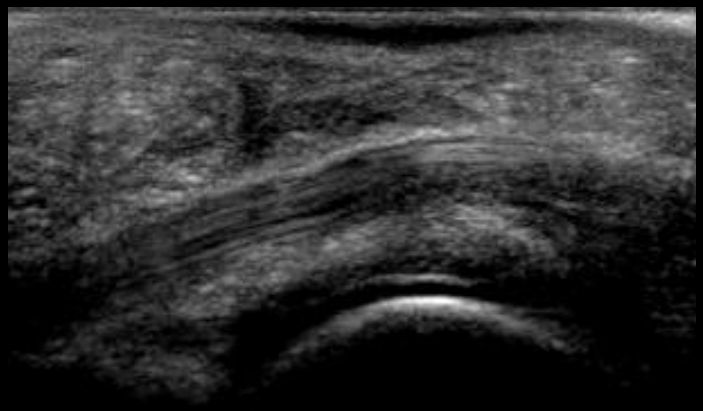
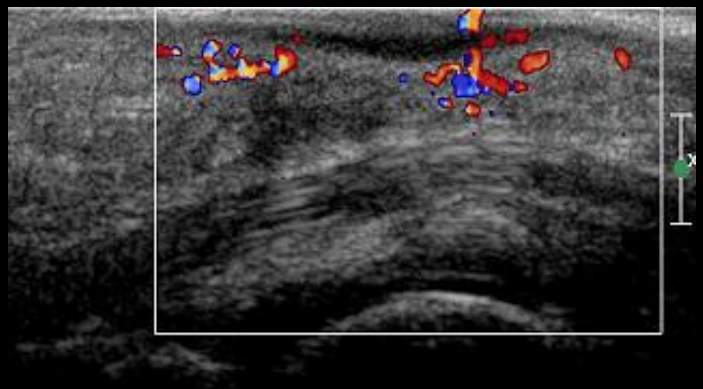




flogosi , metatarsalgia





neoformazione a contenuto fluido

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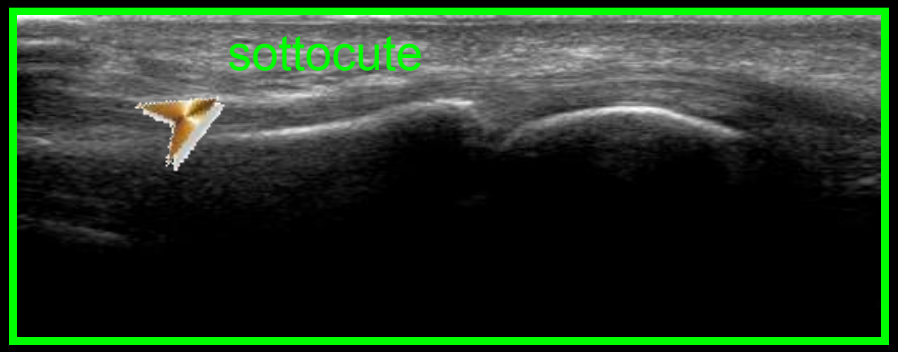
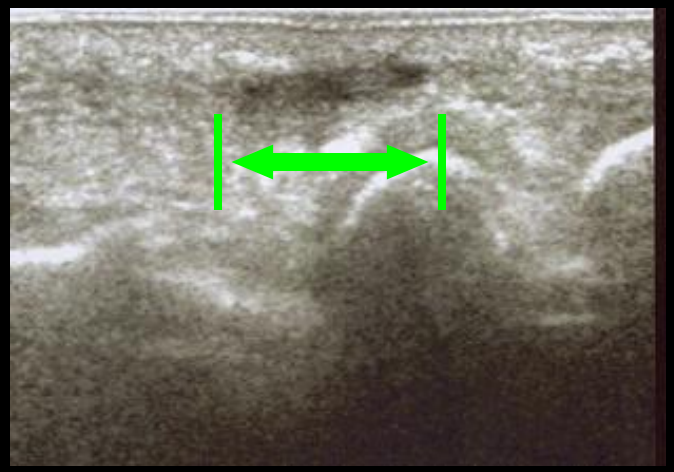
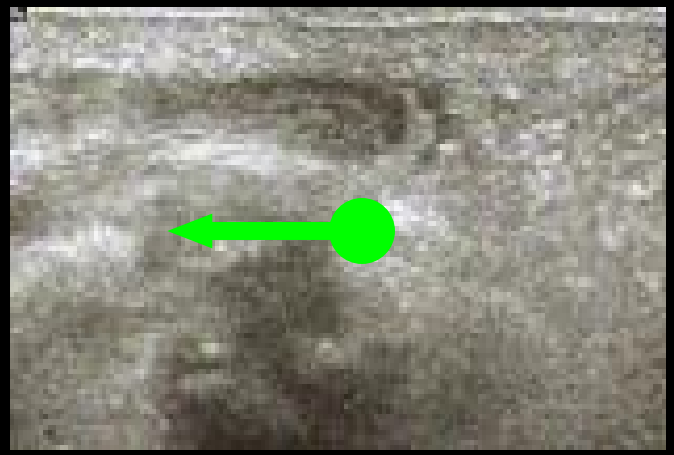
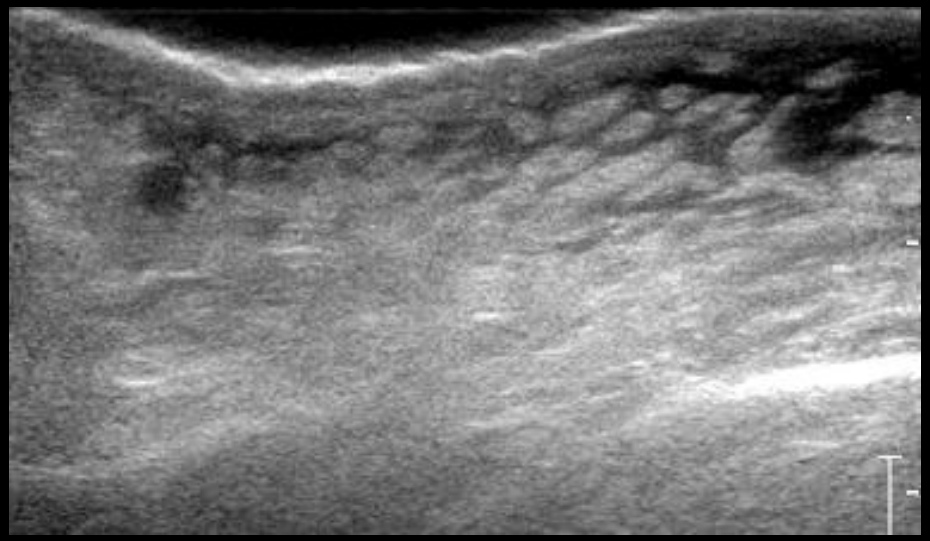
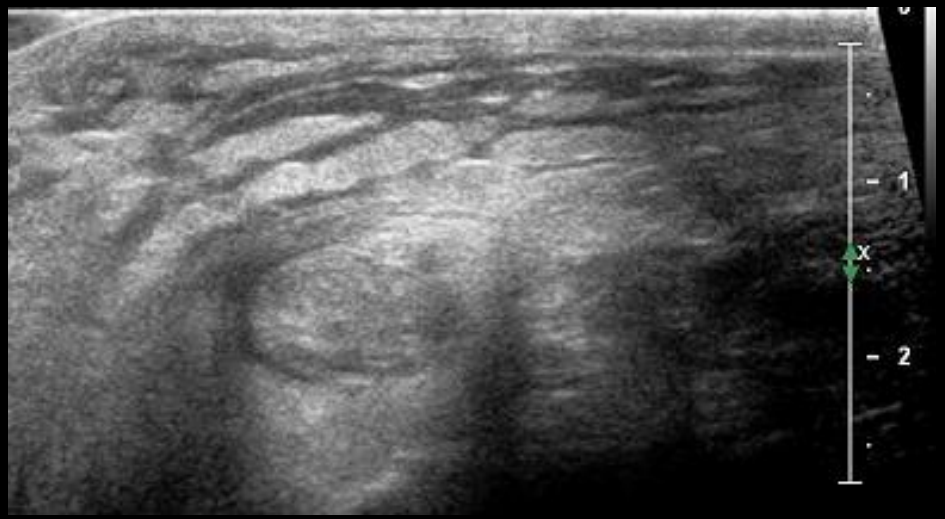








anasarca arti inferiori



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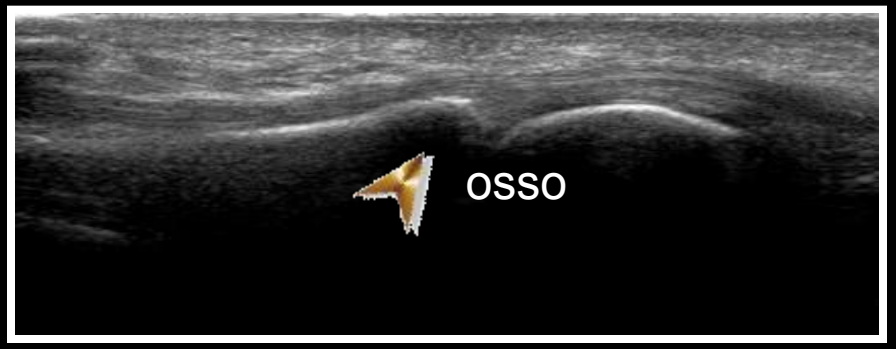

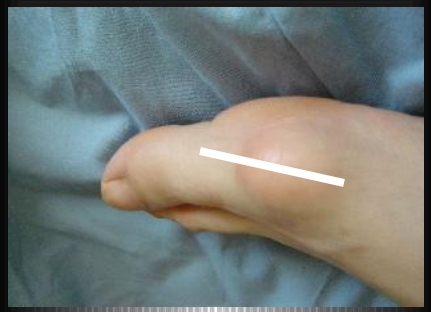

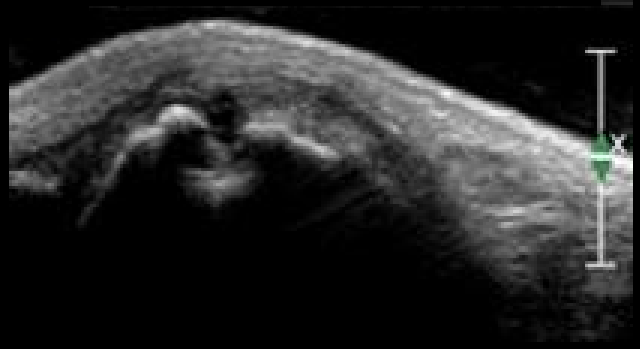

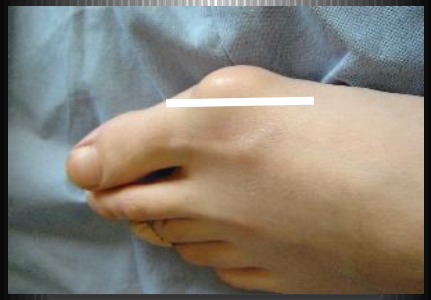

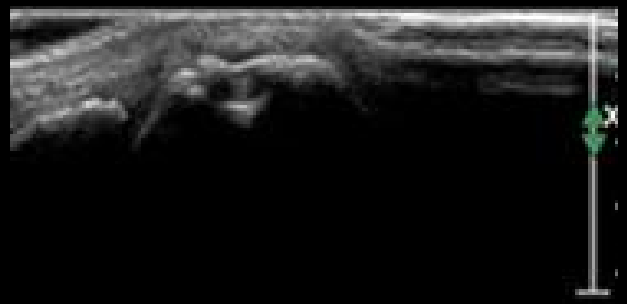

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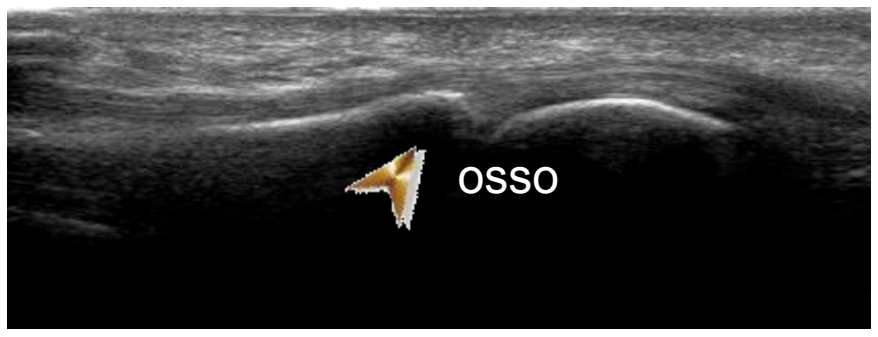
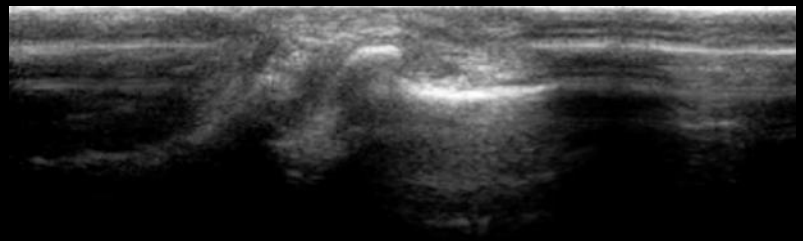
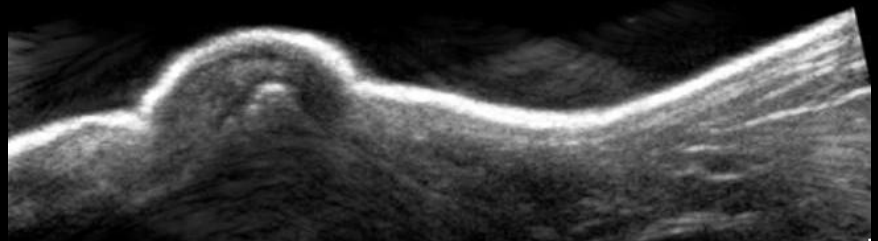
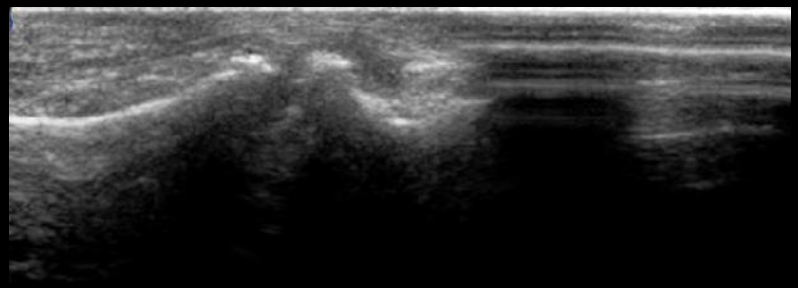
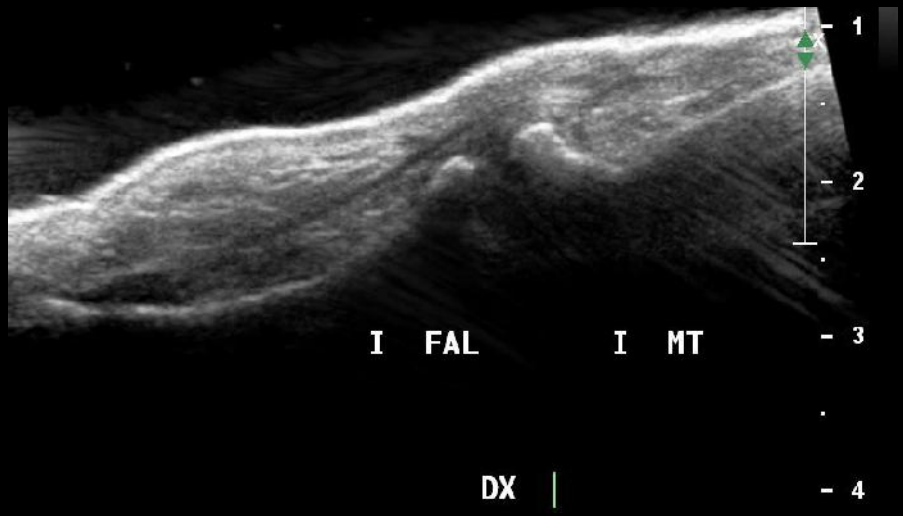


becchi osteofitosici in acqua e gel









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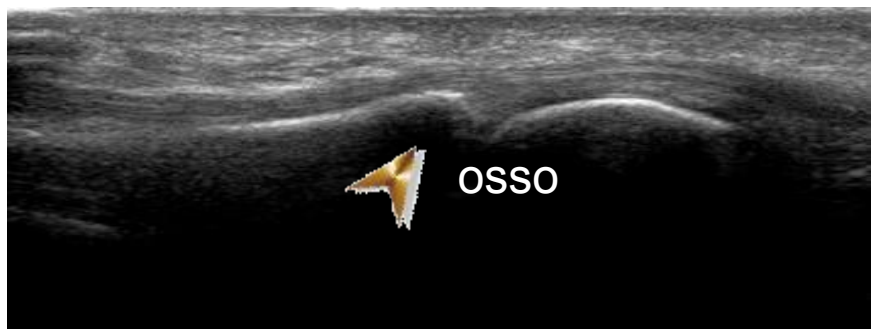
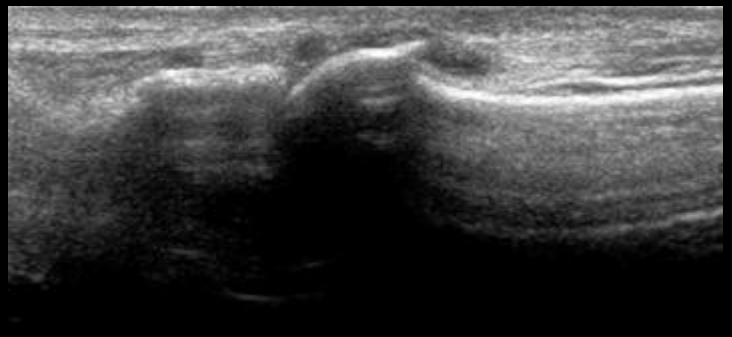
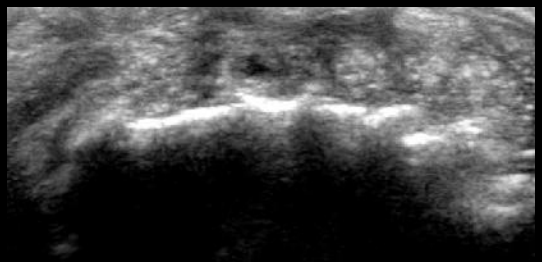
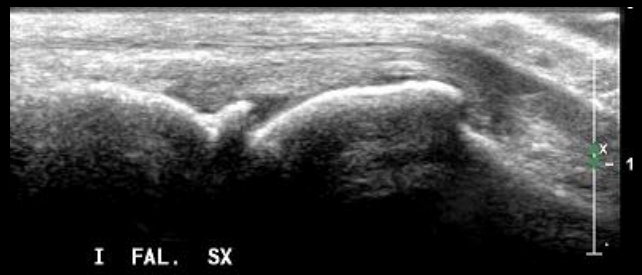
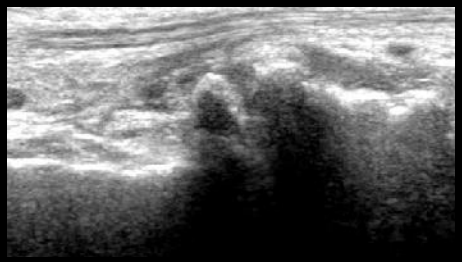






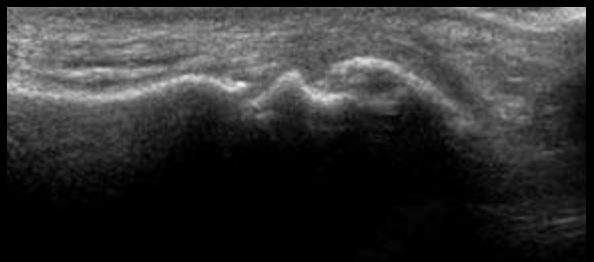


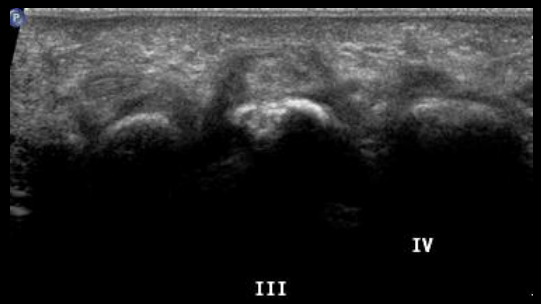


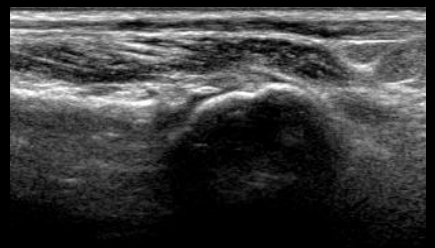
esostosi

depressioni

erosioni







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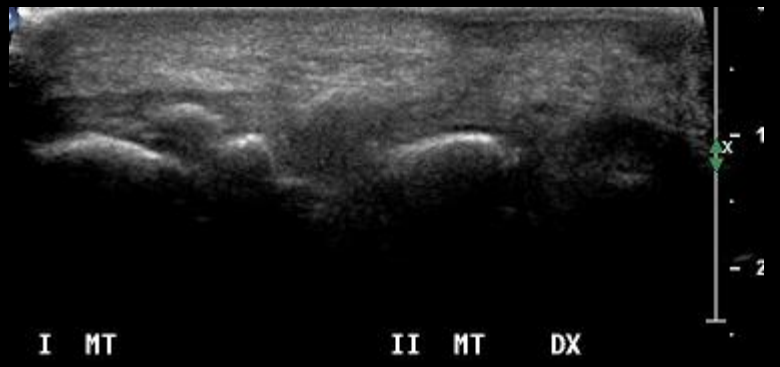
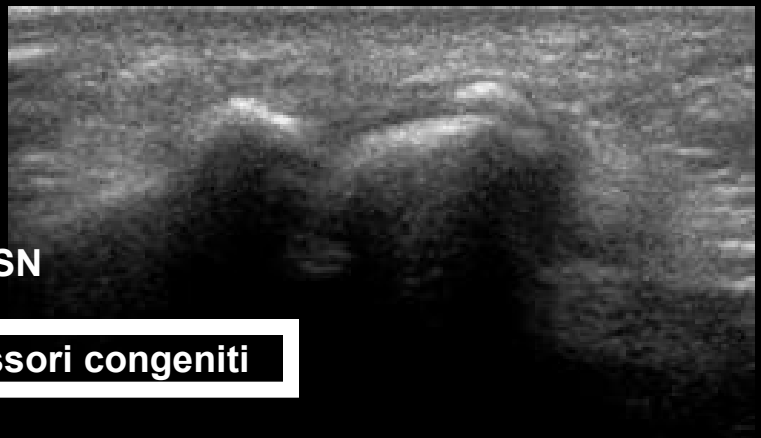
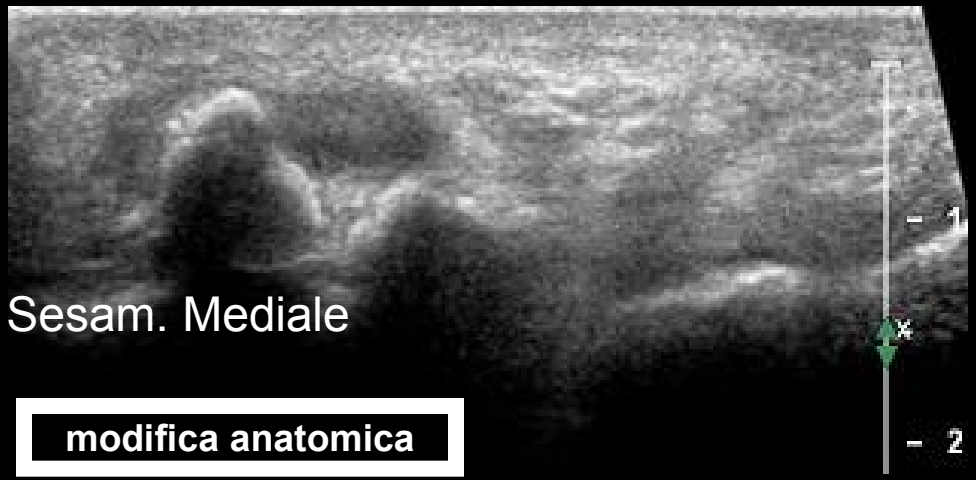
sublussazione





V met SN

accessori congeniti



modifica anatomica

da microtrauma

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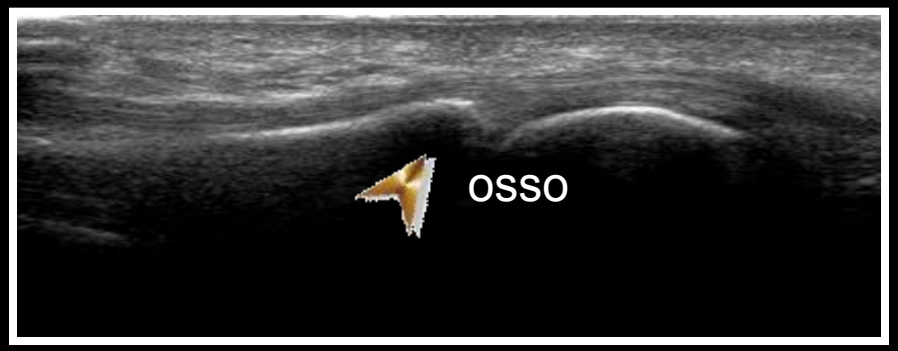
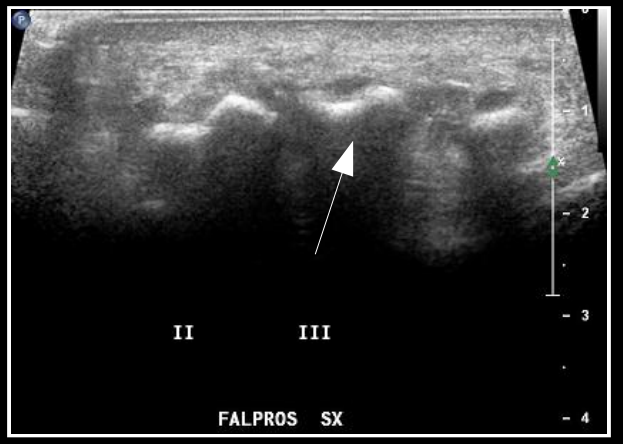


modifiche anatomiche



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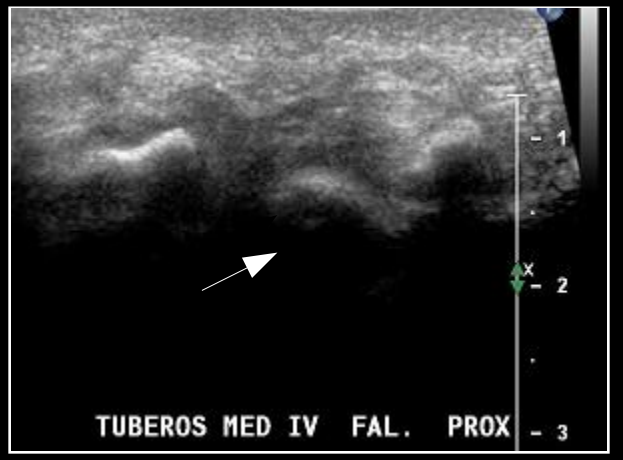

artrosi e becchi ostefitosici

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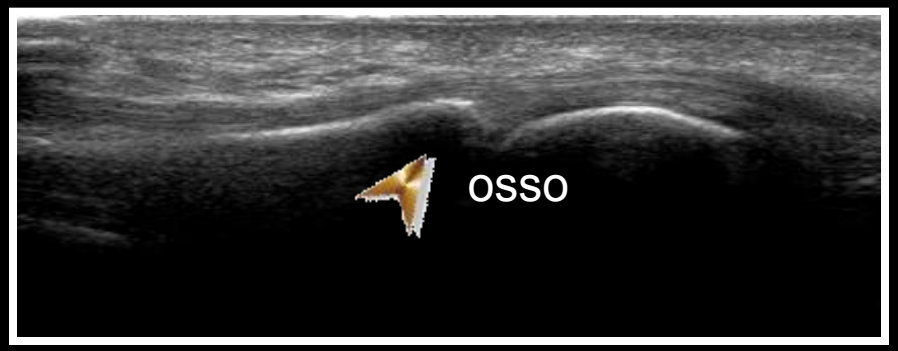

spine calcaneari

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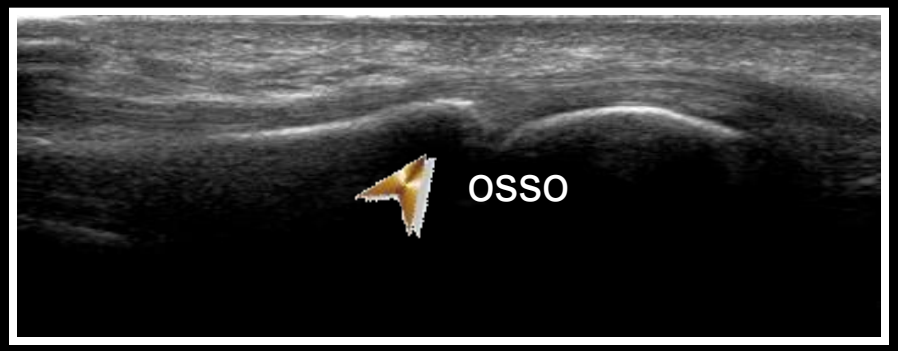
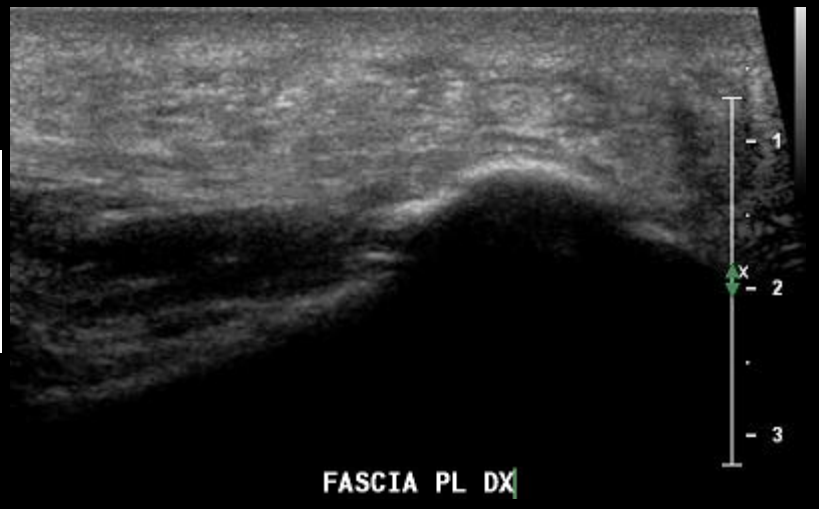
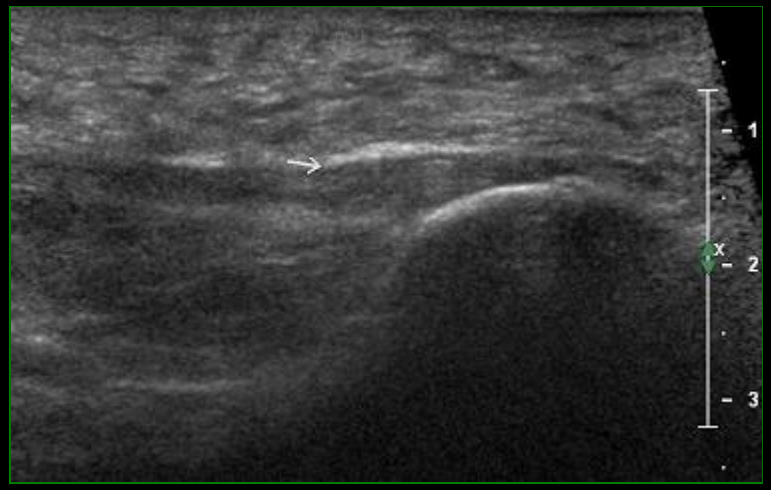


spine calcaneari o fasciti?





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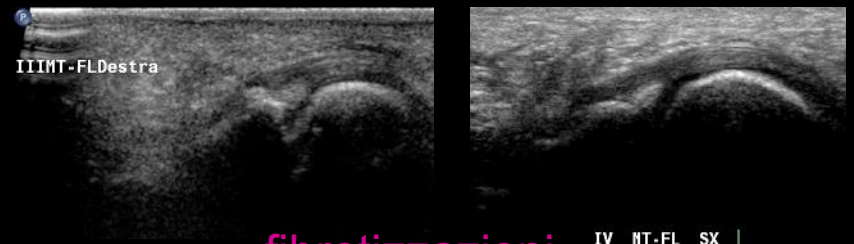
peri-intraarticolari

calcificazioni



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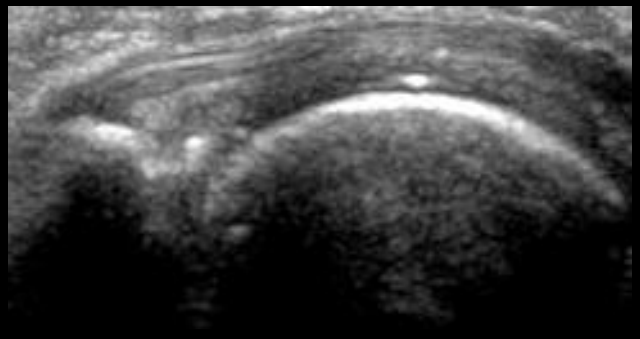
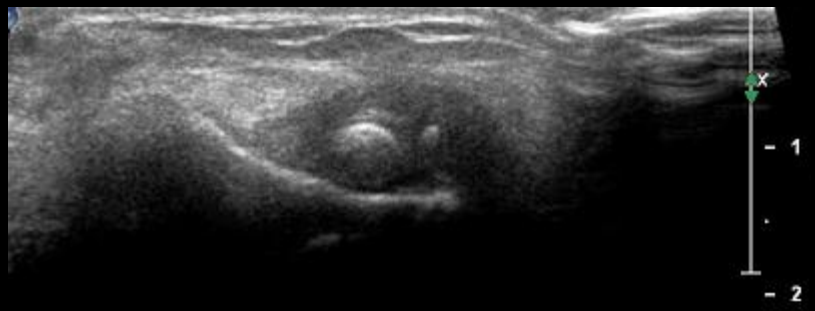
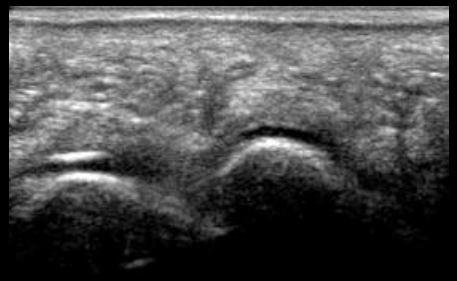




sesamoide da esito cicatriziale

longitudinale



trasversale

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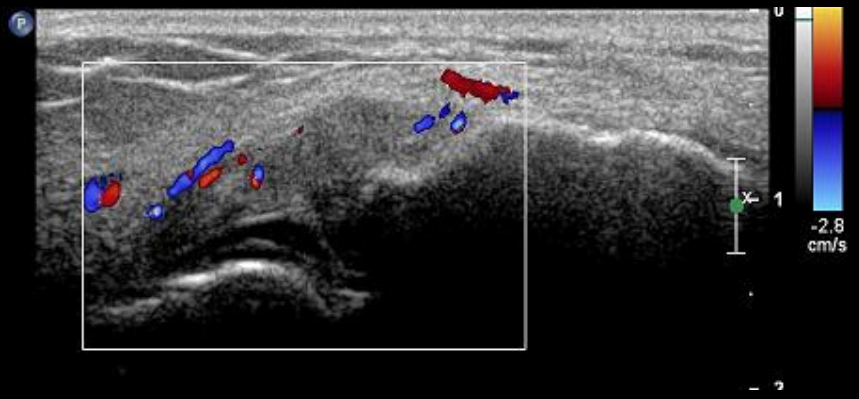
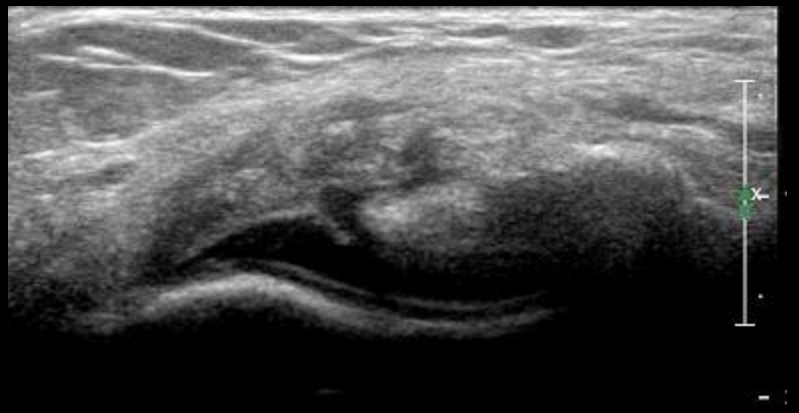
Peri-intraarticolari

trauma in inversione





Edema intra articolare

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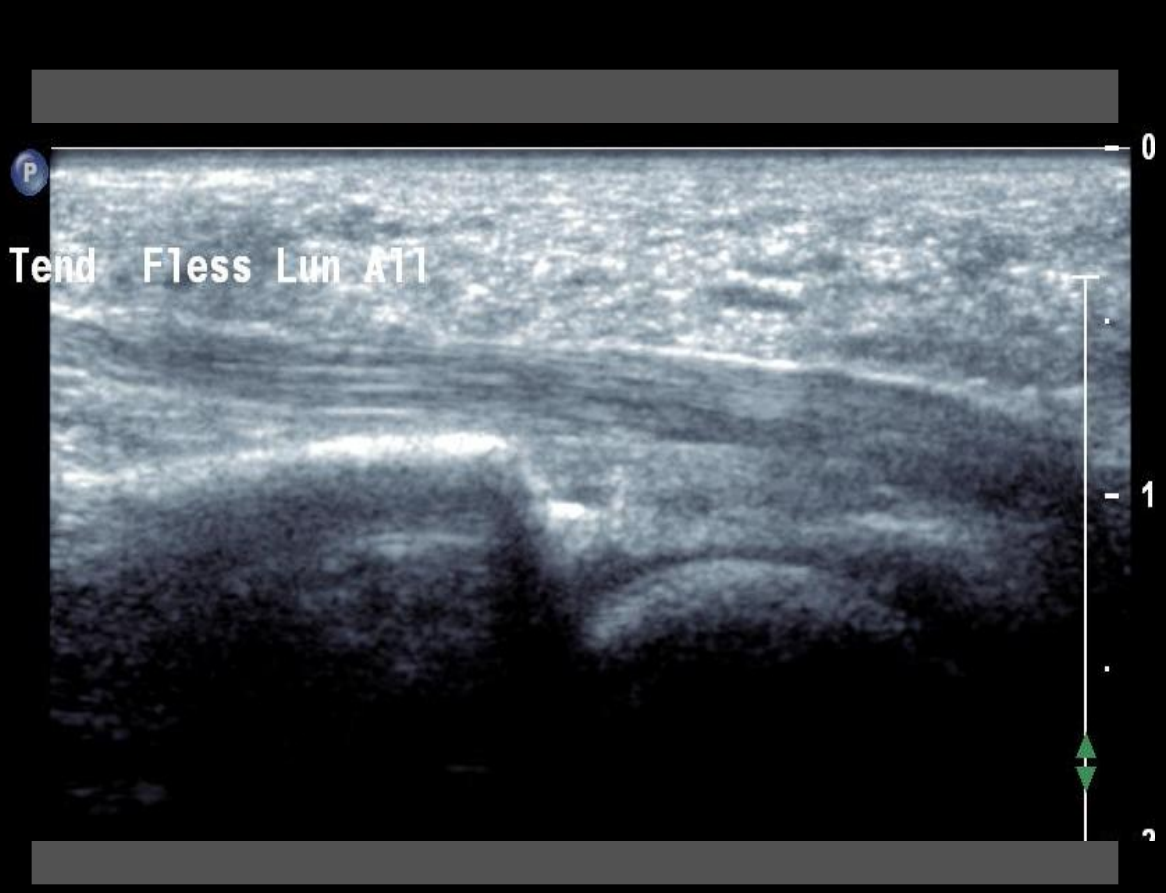

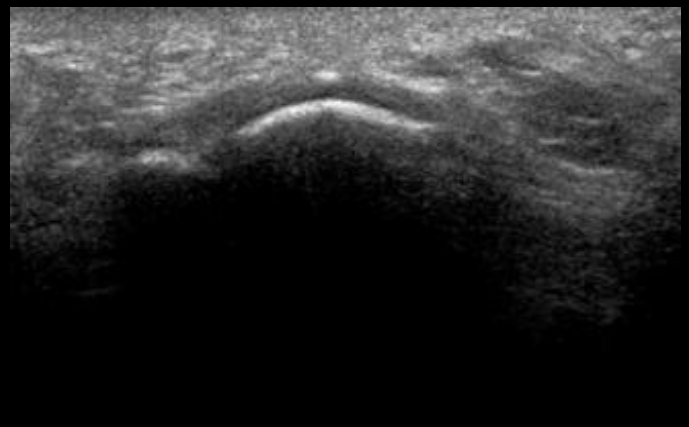

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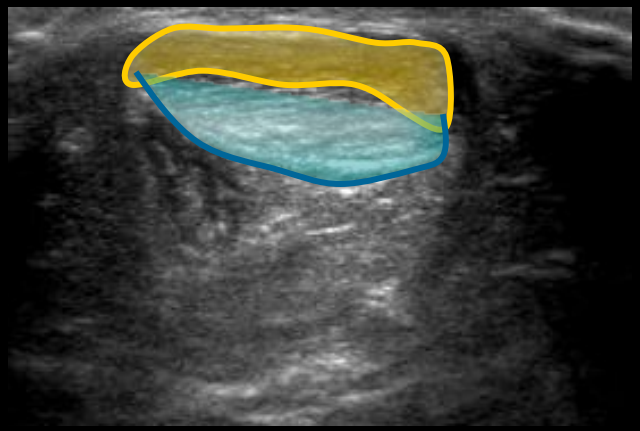

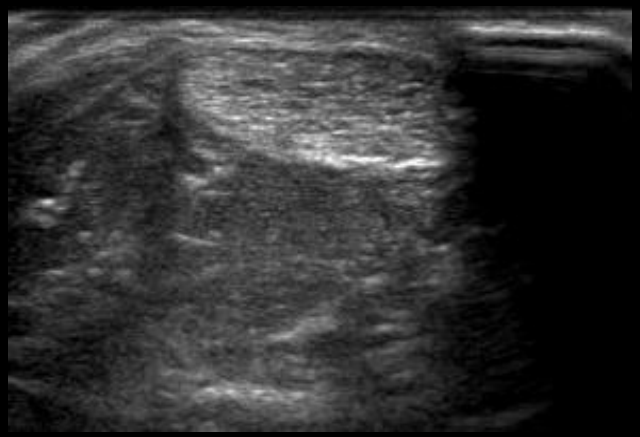

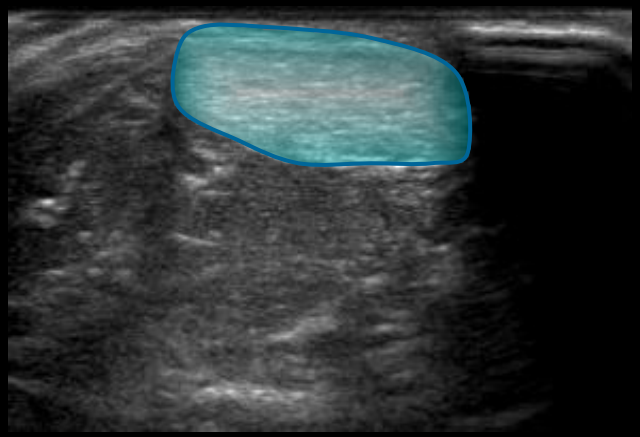

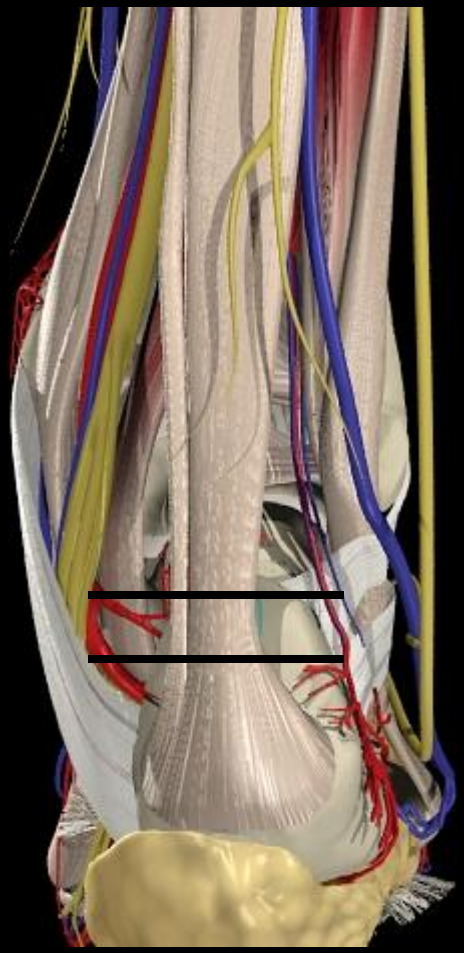

Foot & Ankle

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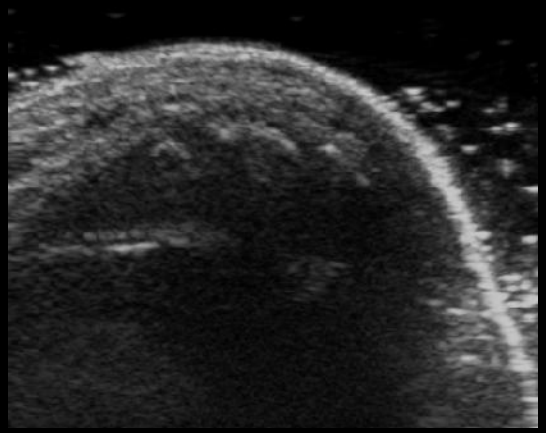

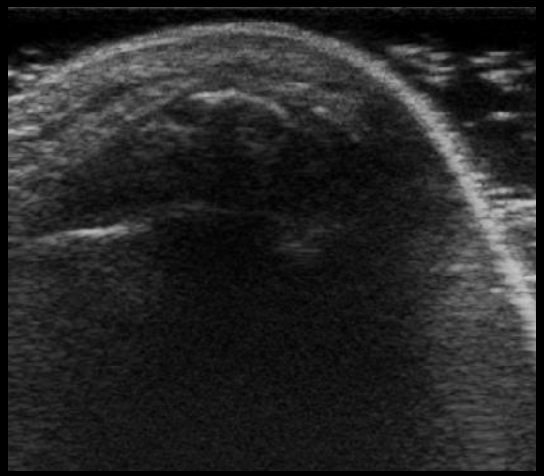

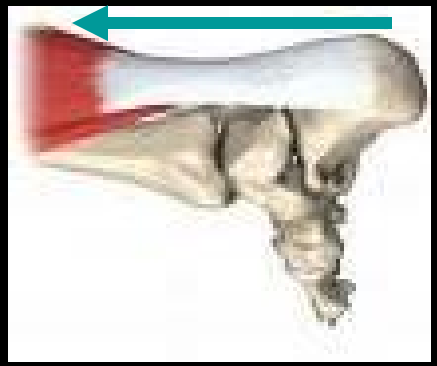

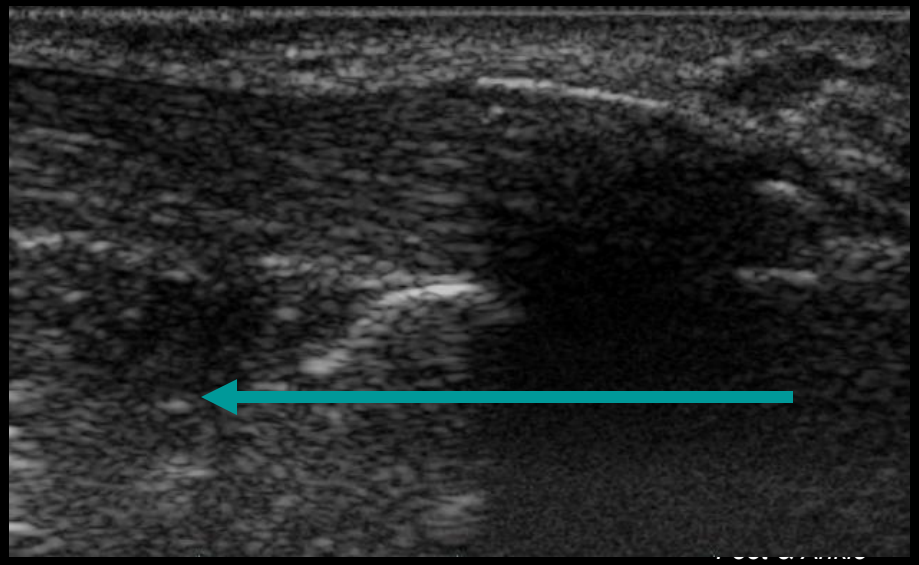

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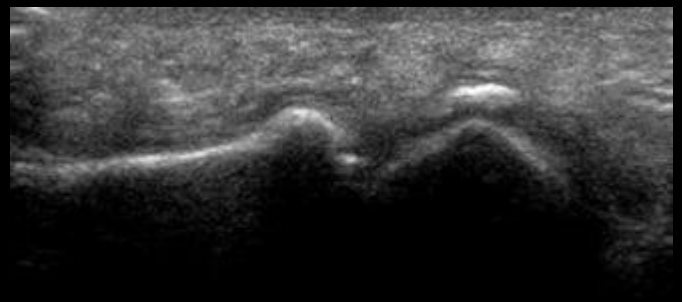

flogosio del peritenonio

calcificazione intratendinea

costrizione tendinea

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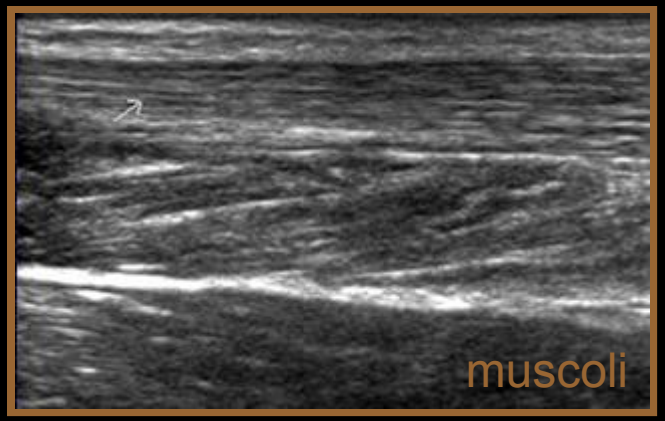

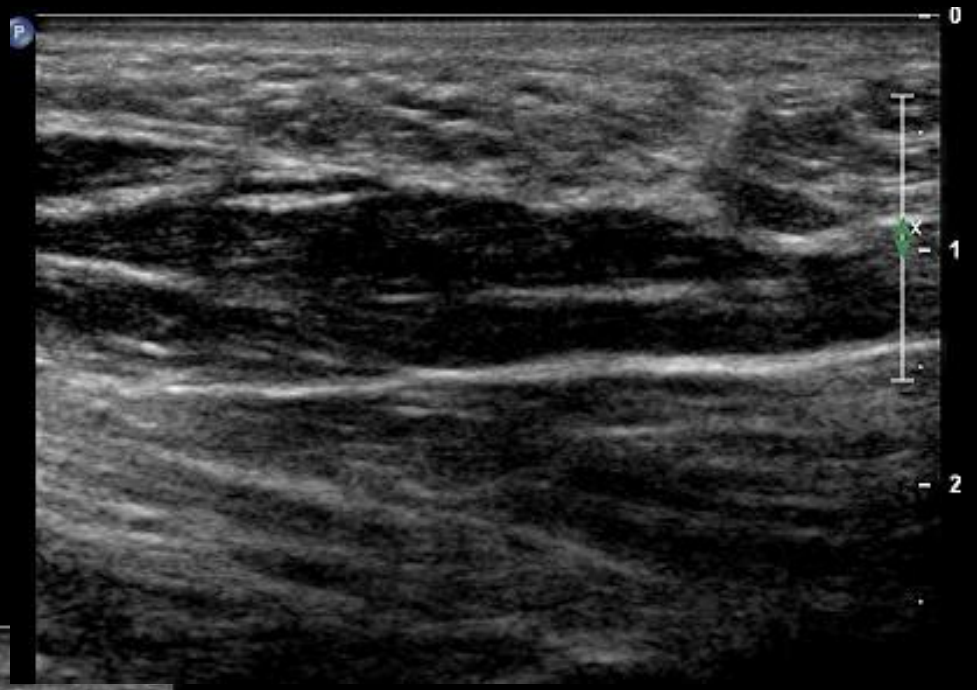

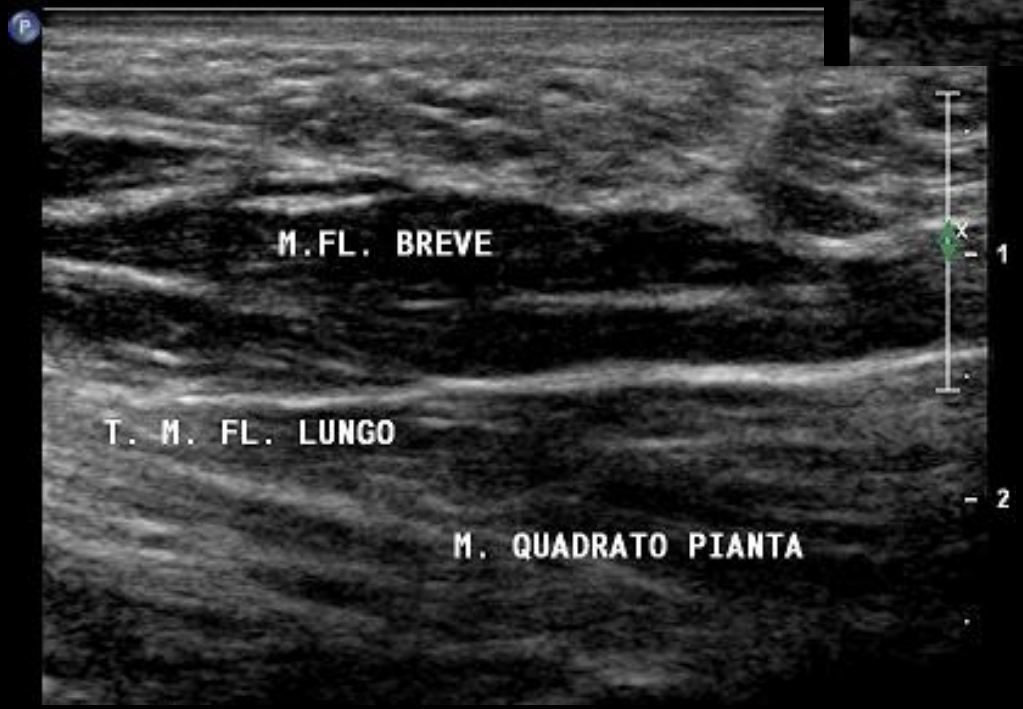

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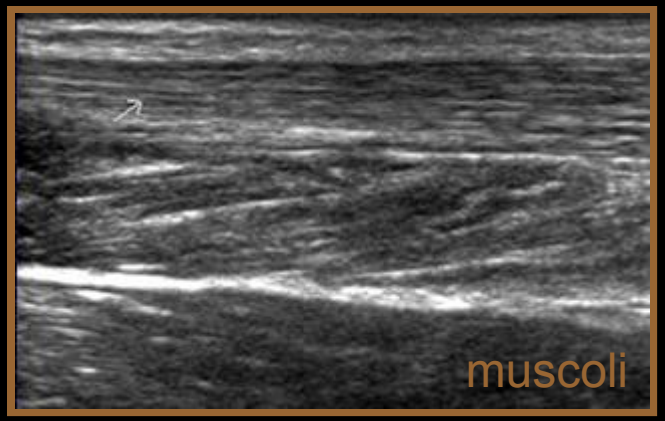

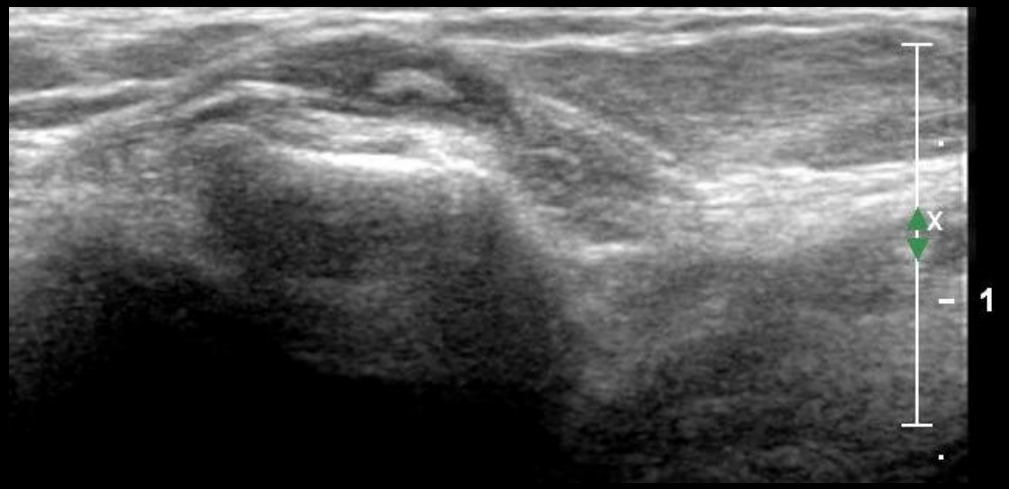

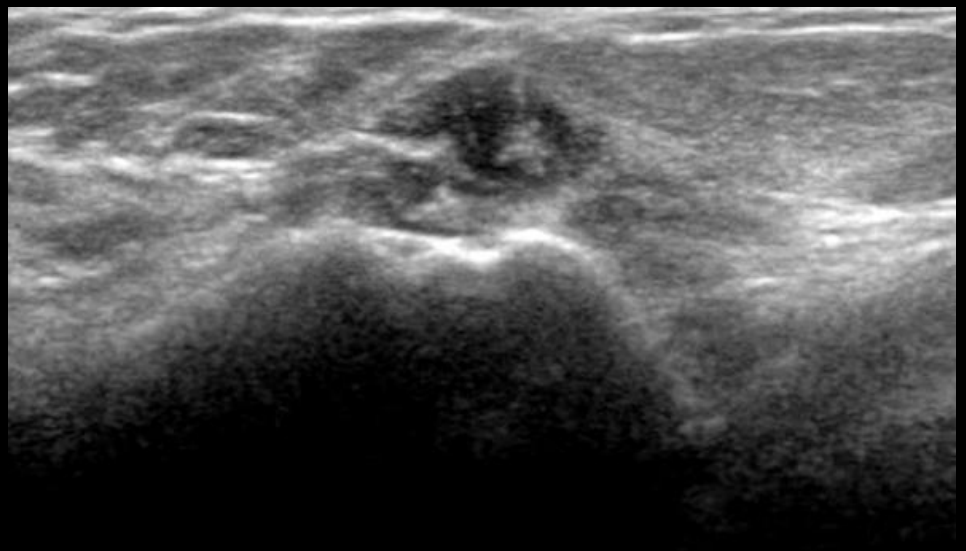

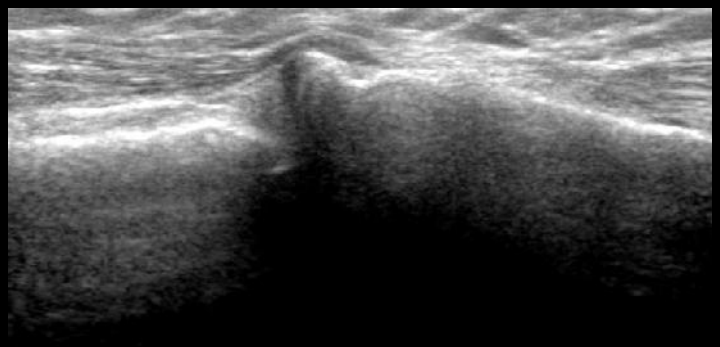

CALC DX

CUBOIDE

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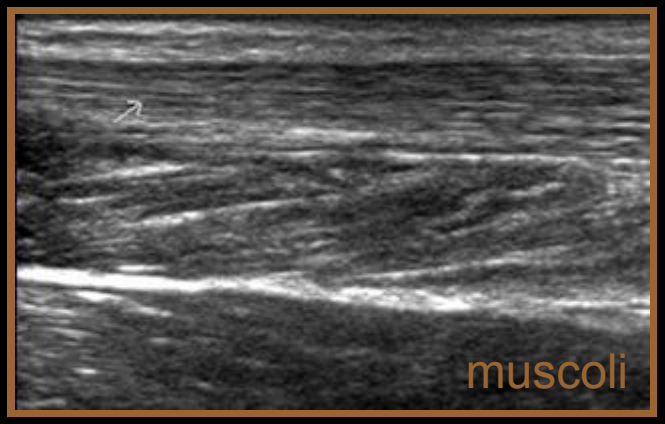

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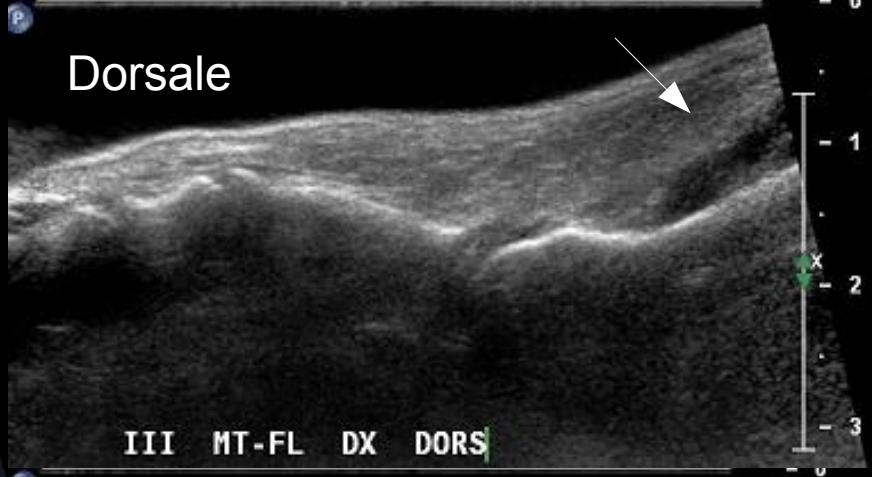

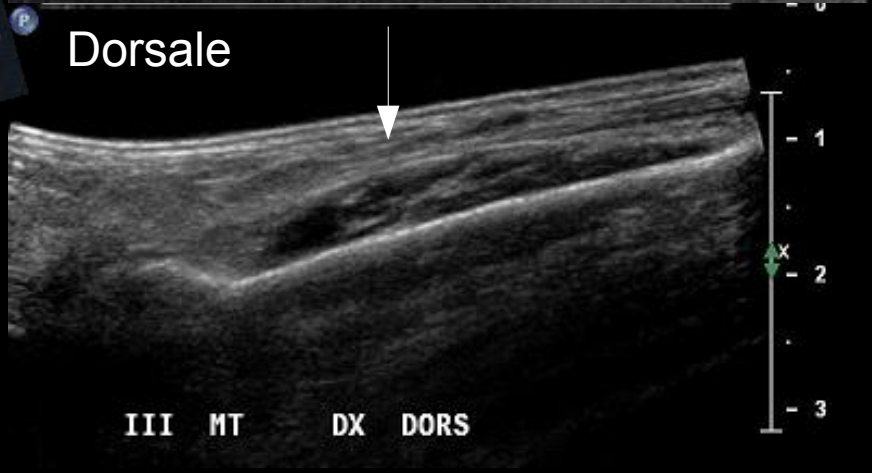

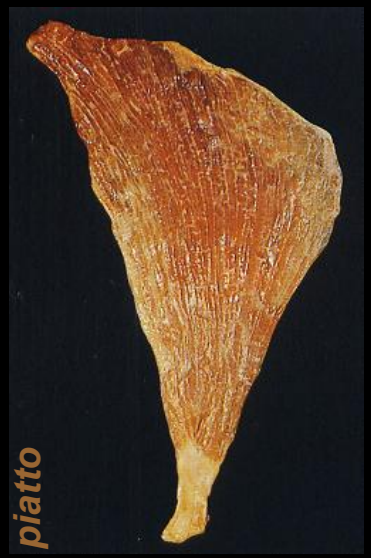

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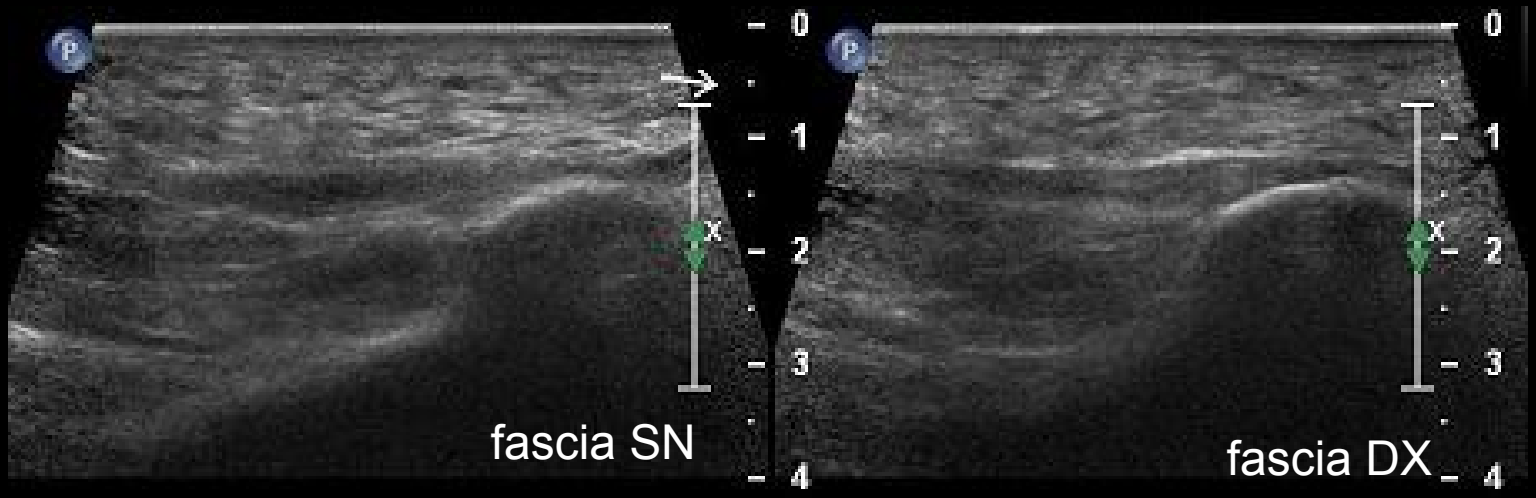
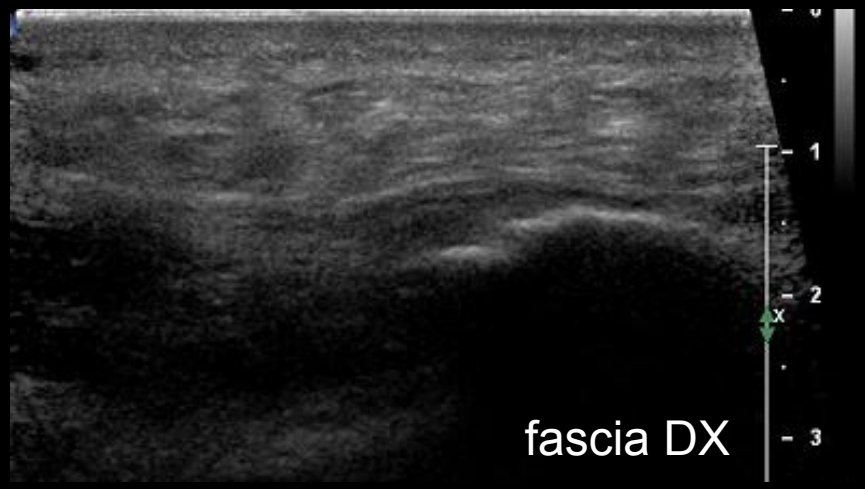
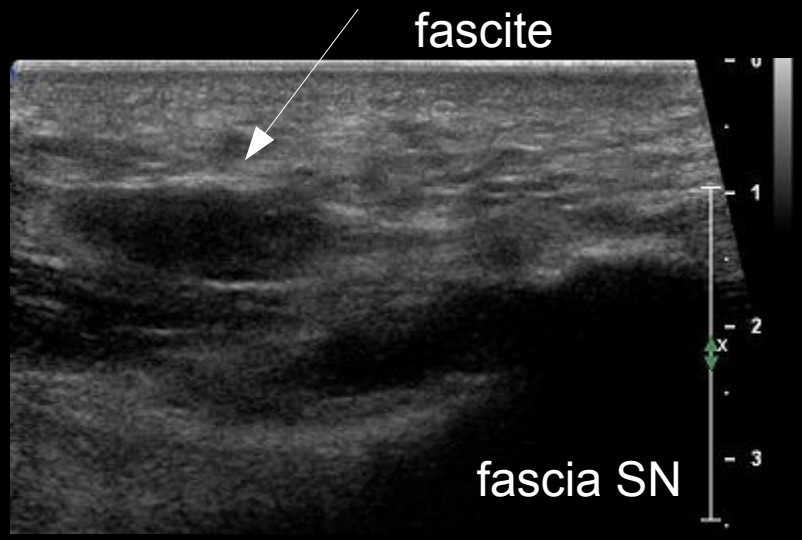
fascia plantare







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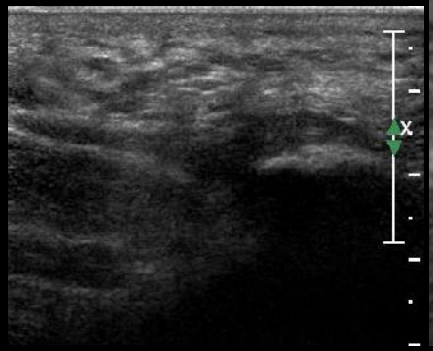
fascia plantare

fascia SN



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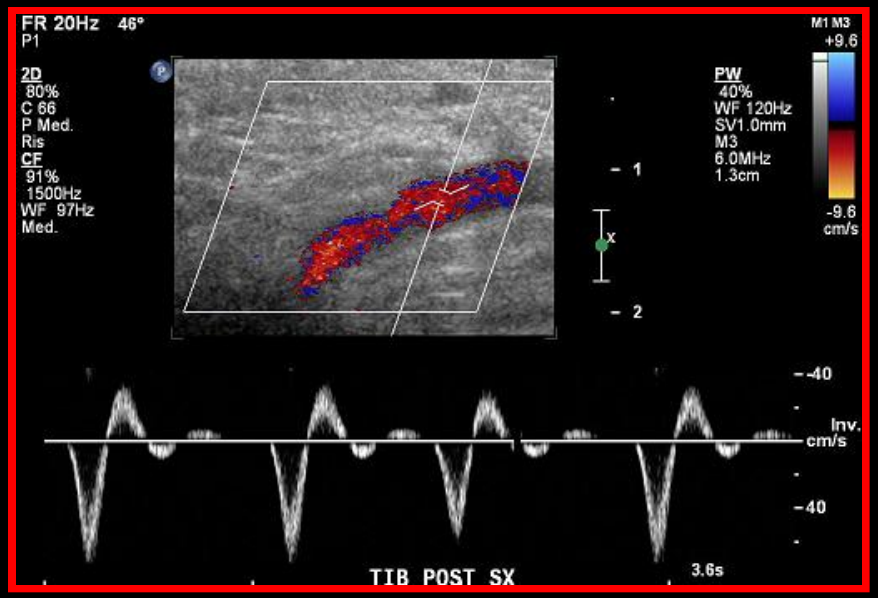

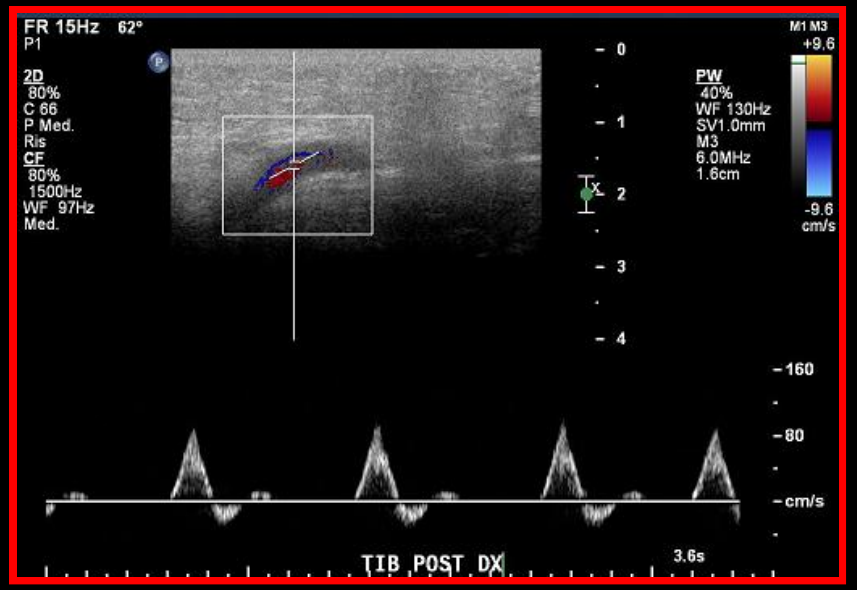

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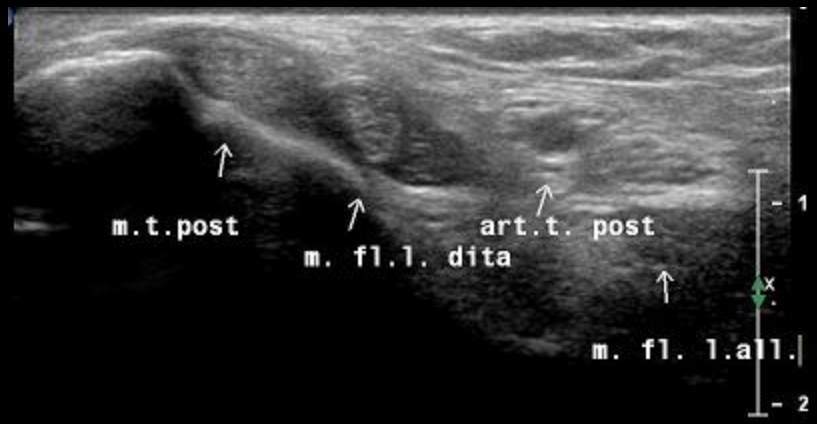

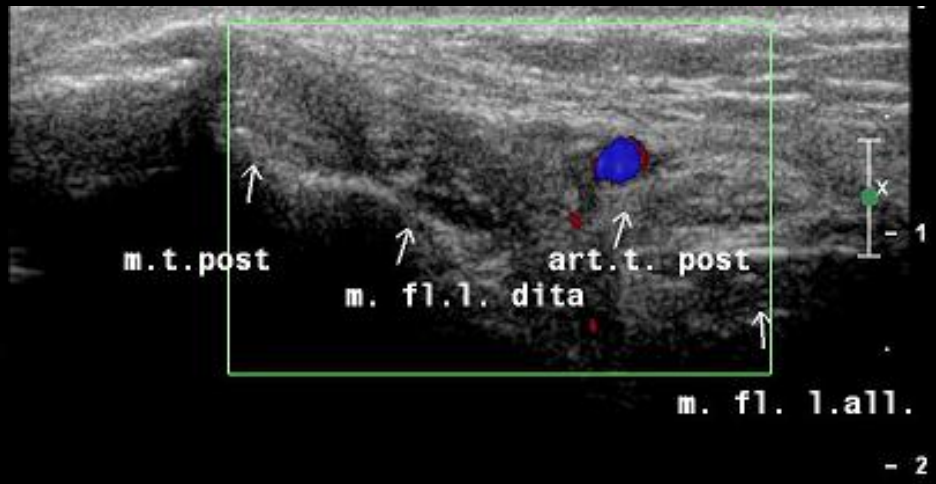

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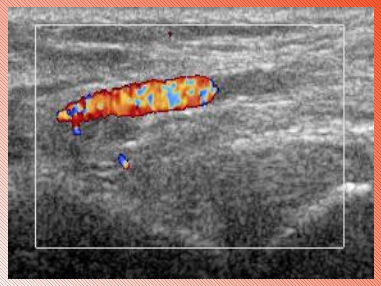

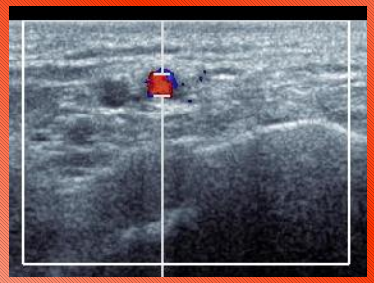

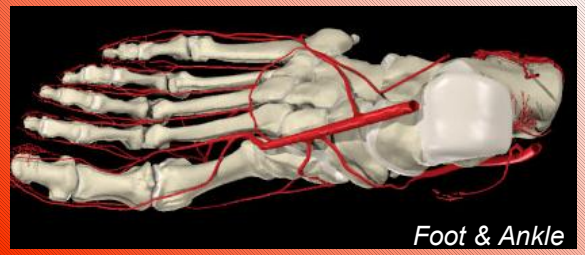

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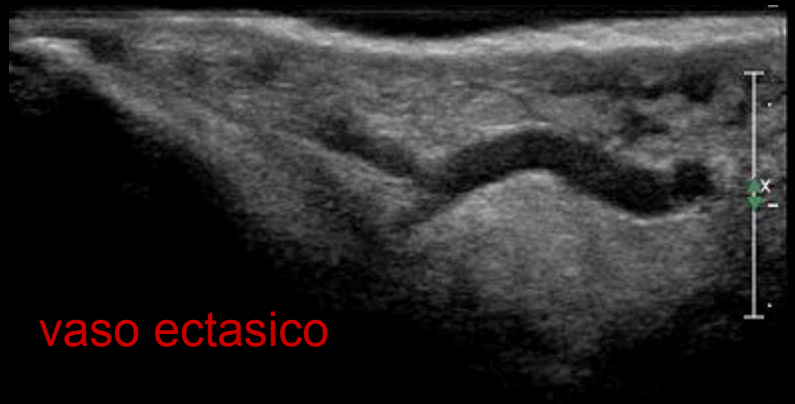

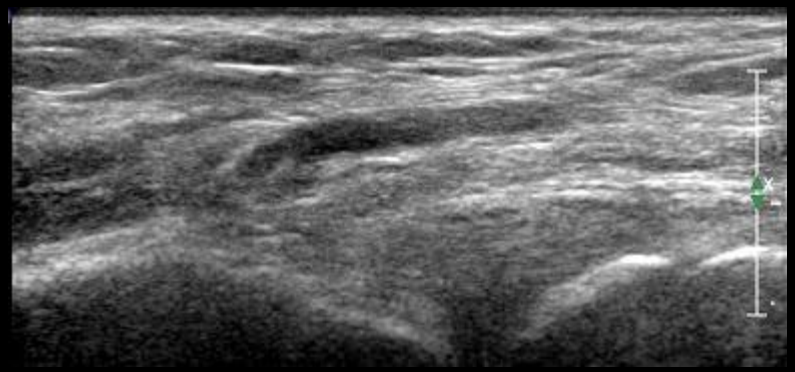

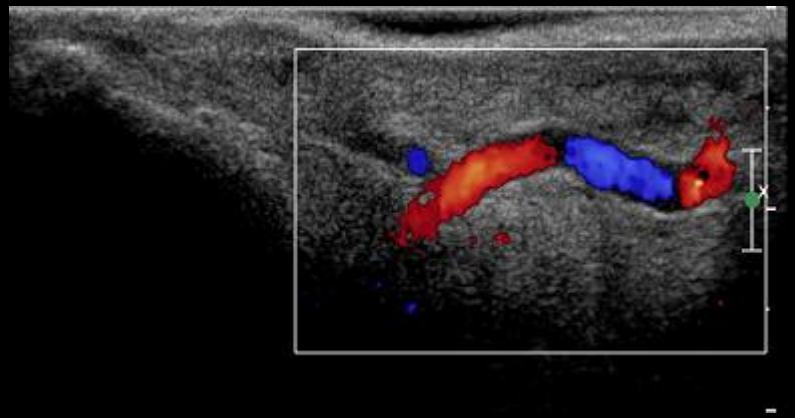

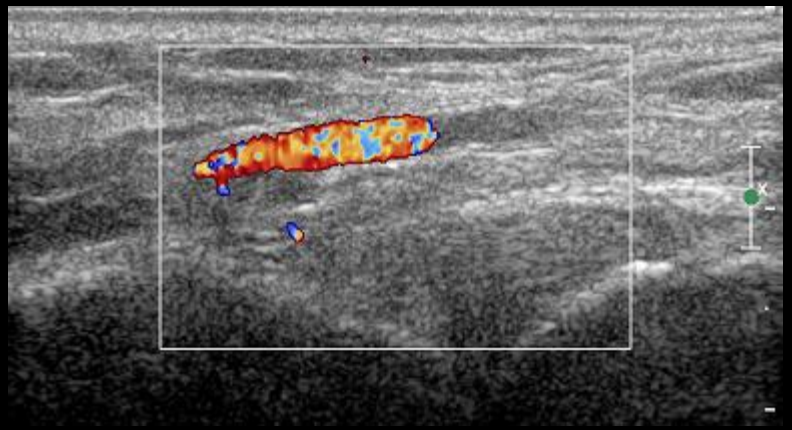

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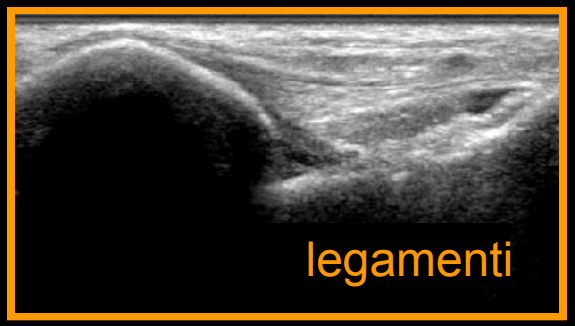
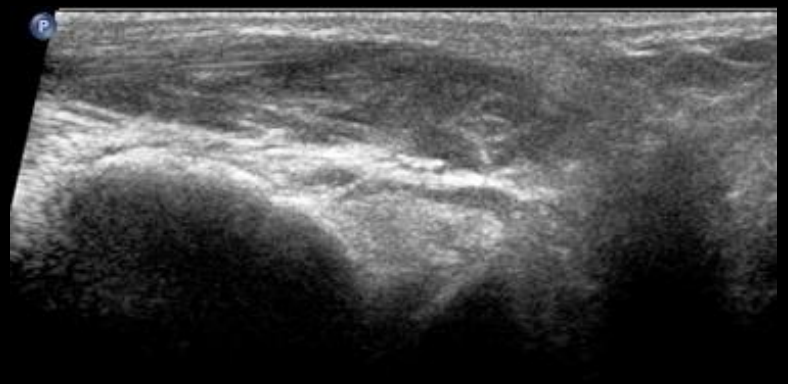
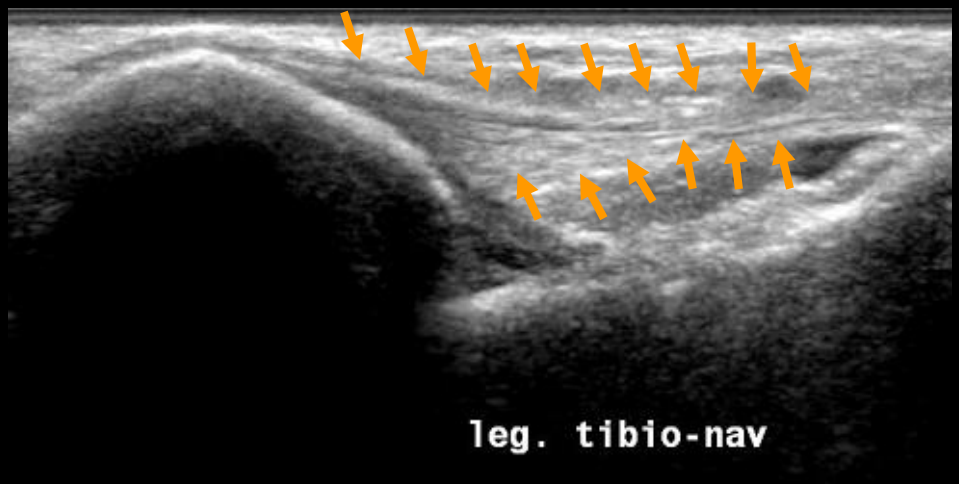
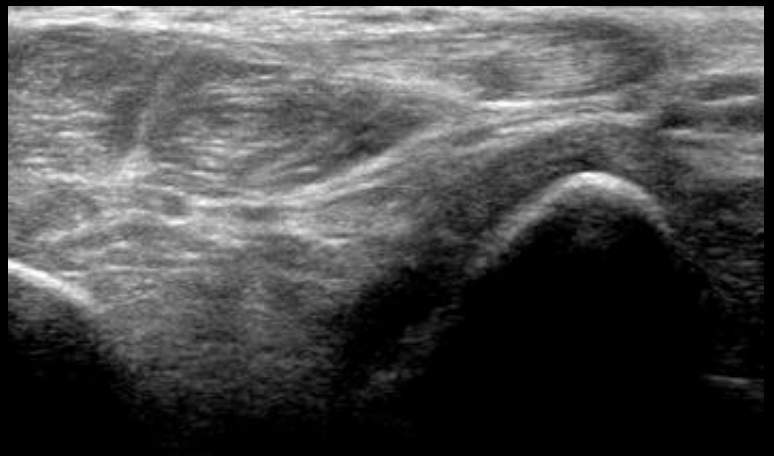
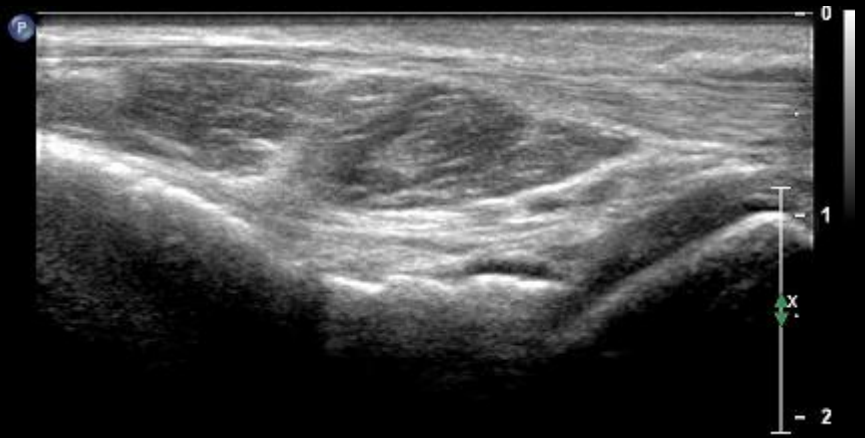


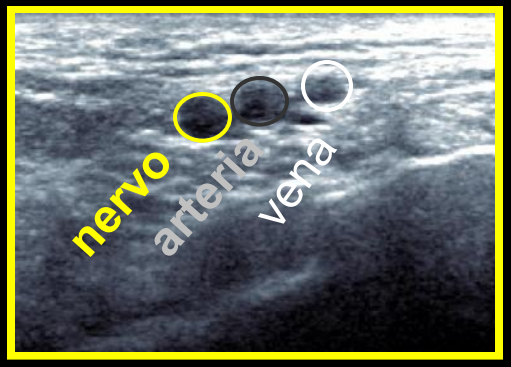








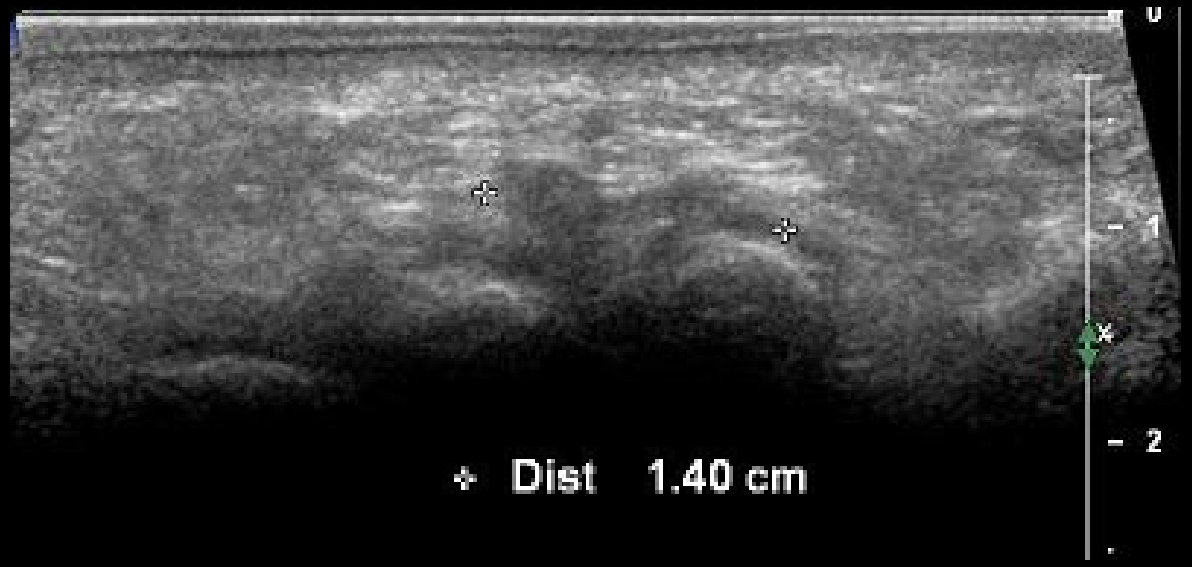
Roma, 12 aprile 2008

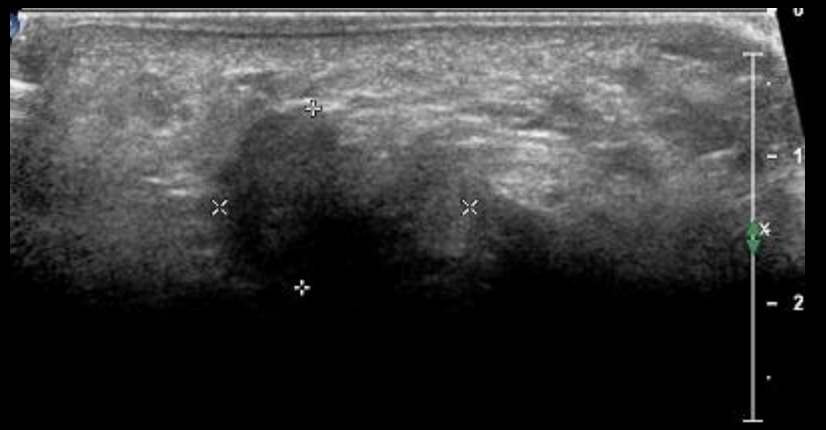


1

MORTON

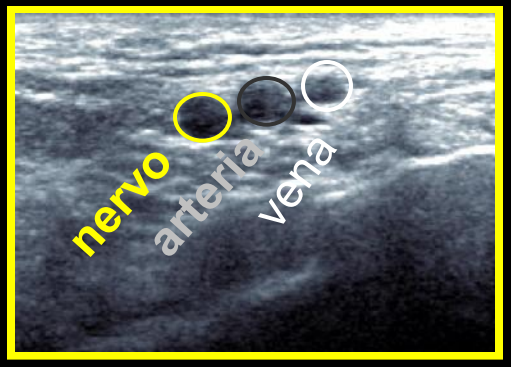
III SPAZIO SX





Dist 1.22 cm
Dist 1.70 cm

Roma, 12 aprile 2008



2

MORTON

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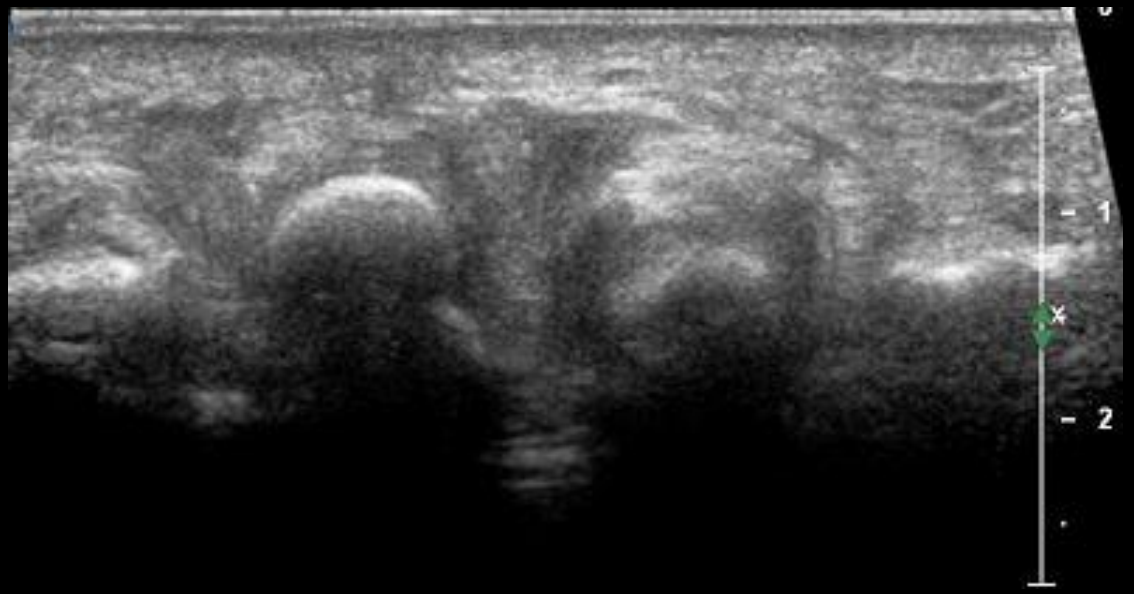
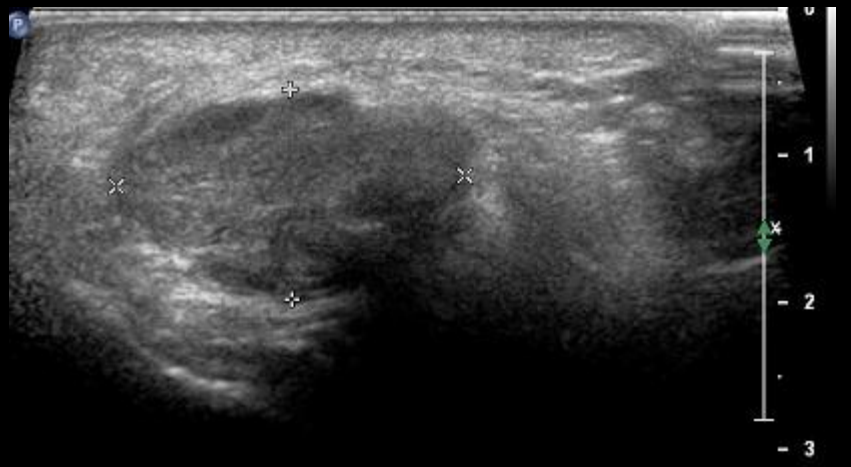
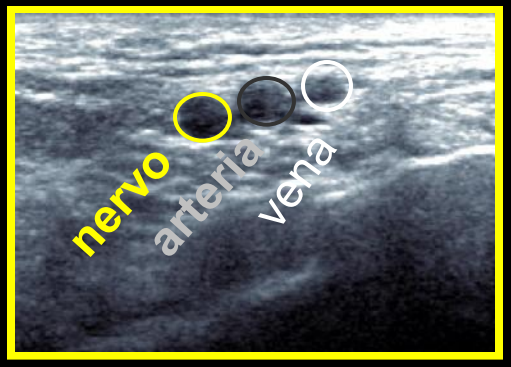




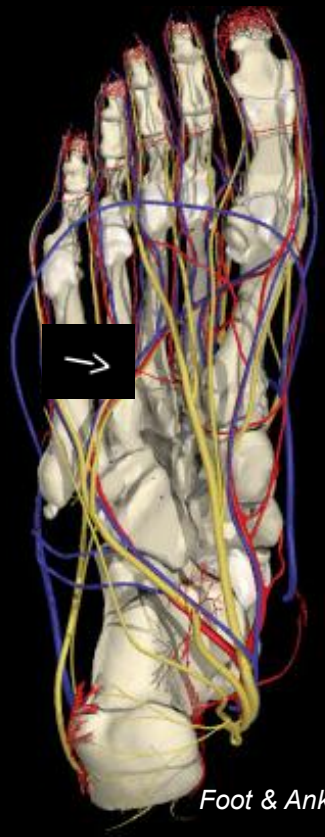
Dist 1.43 cm
Dist 2.37 cm

Roma, 12 aprile 2008

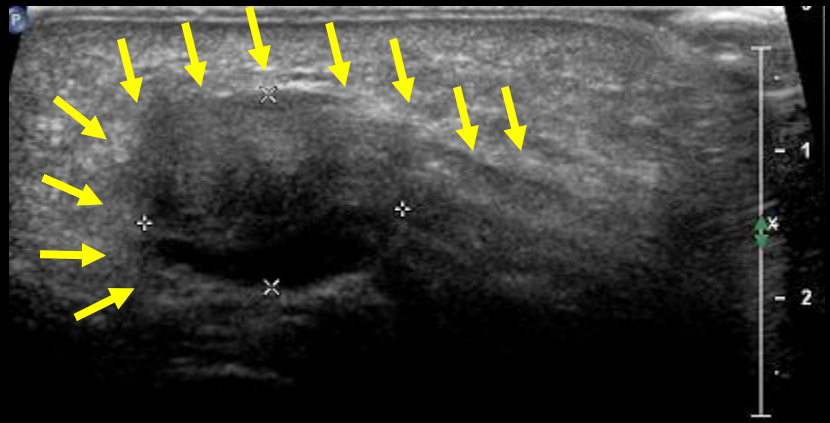


3

MORTON



III SPAZIO DX



Dist 1.76 cm
Dist 1.31 cm

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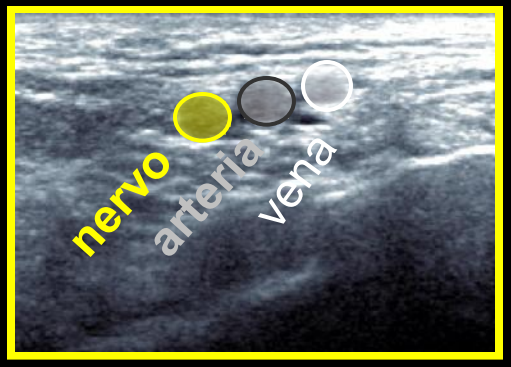
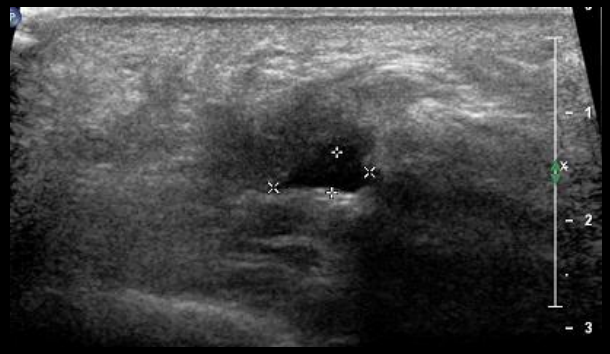
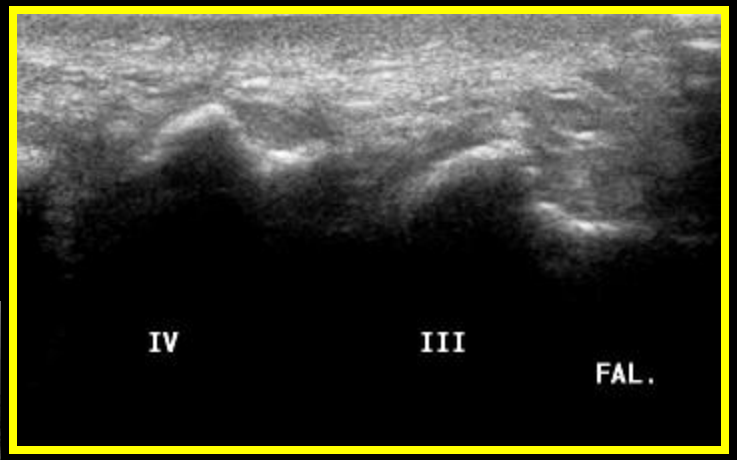


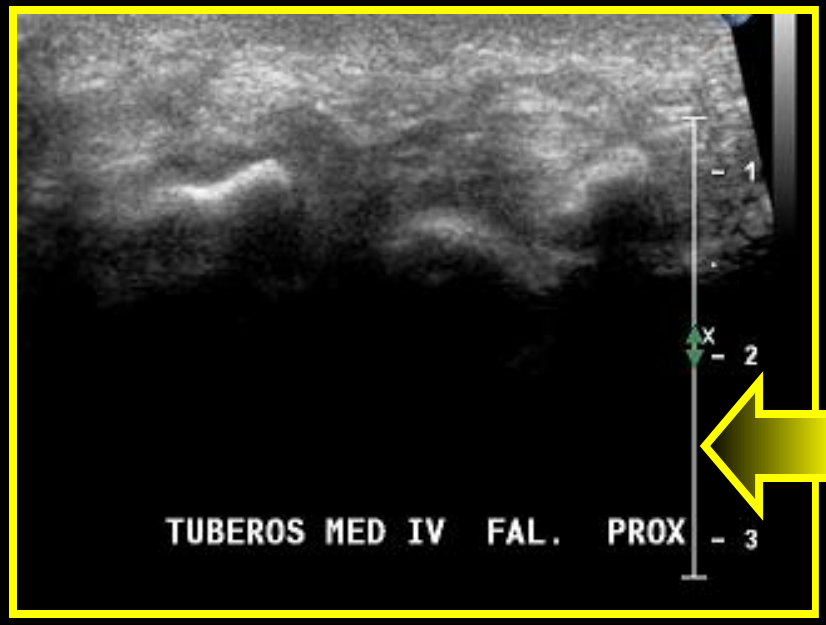
MORTON

III SPAZIO SX

4







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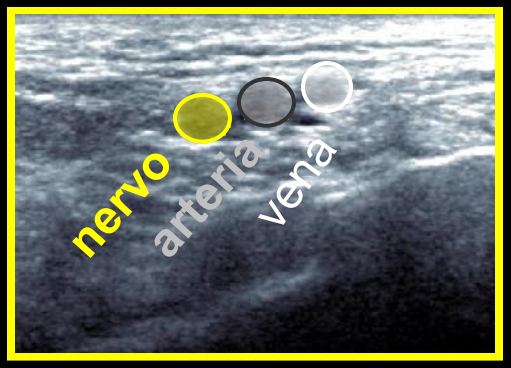
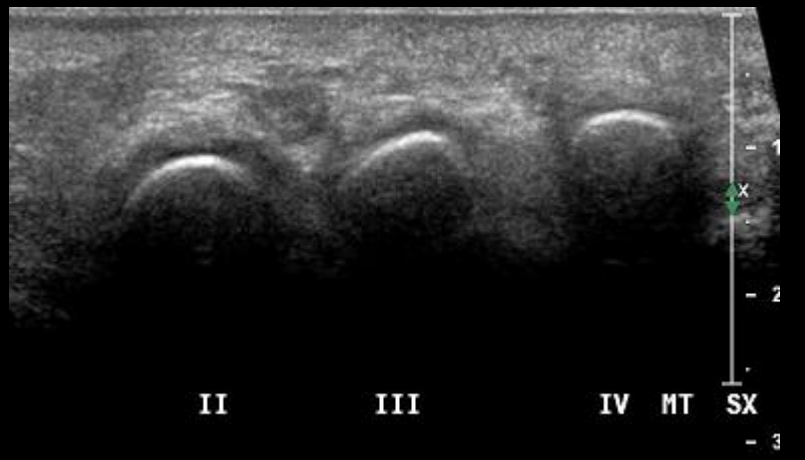
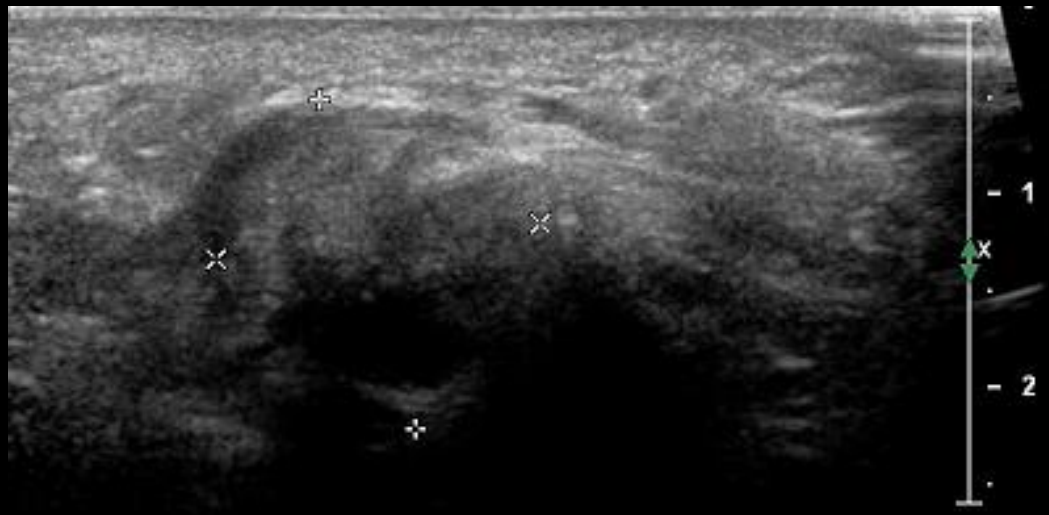
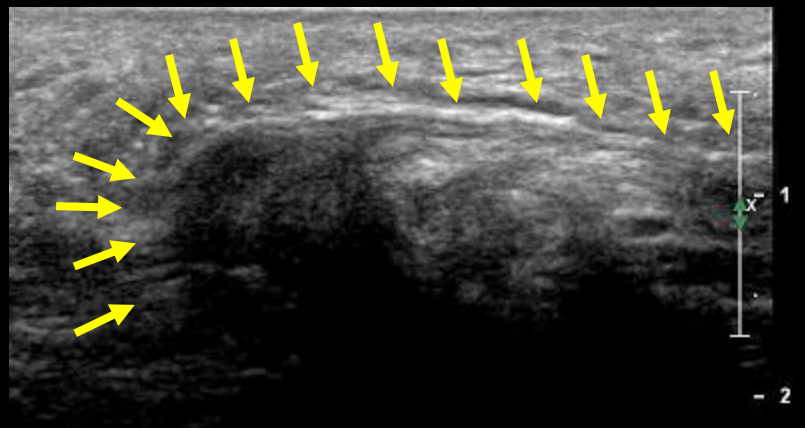


HAUSER





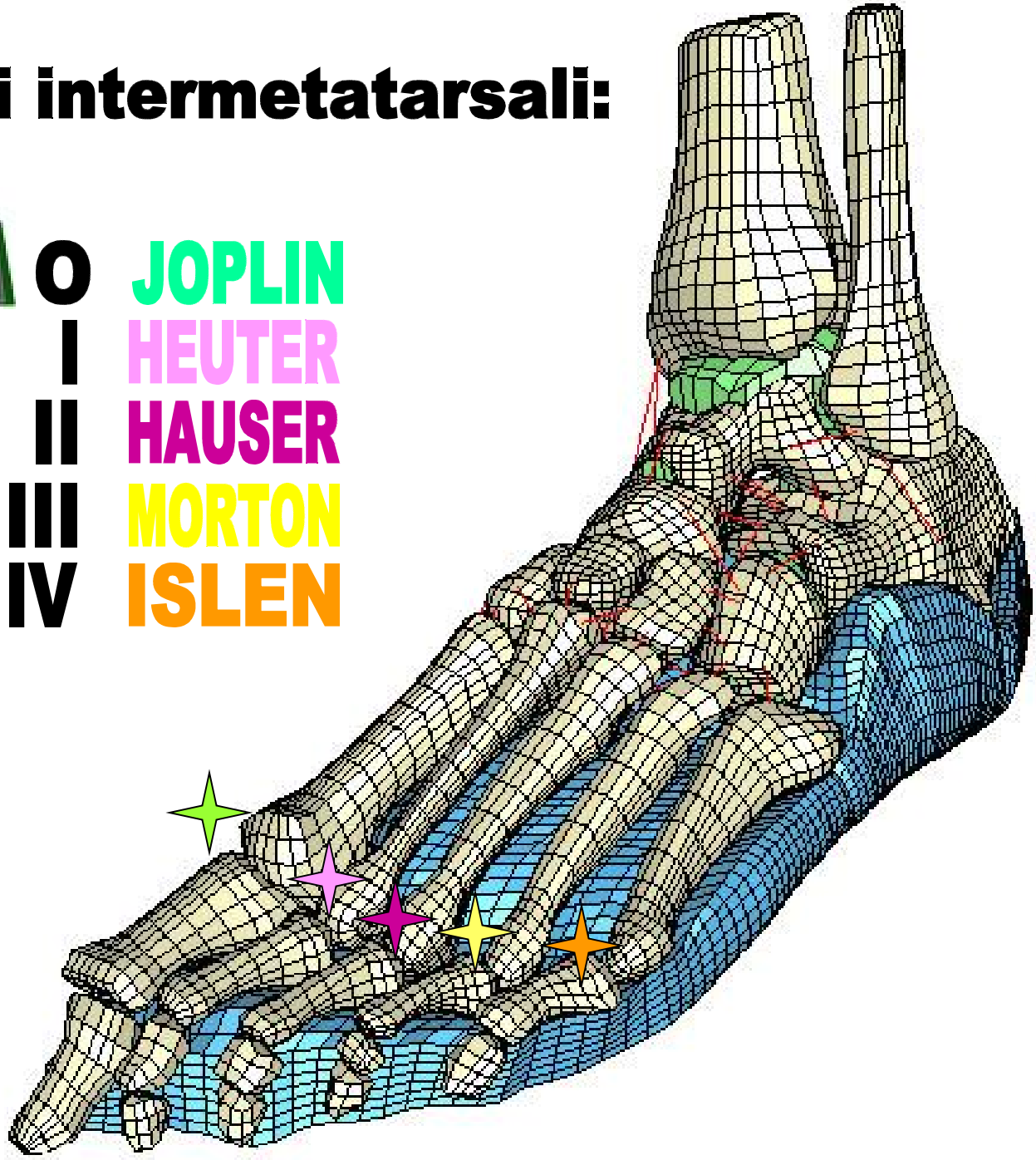
II SPAZIO INTERMET SX
Dist 1.77 cm
Dist 1.69 cm

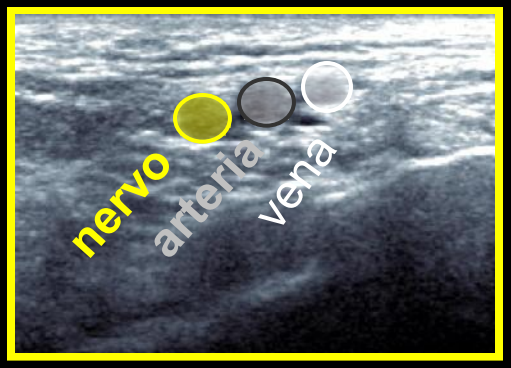


Roma, 12 aprile 2008

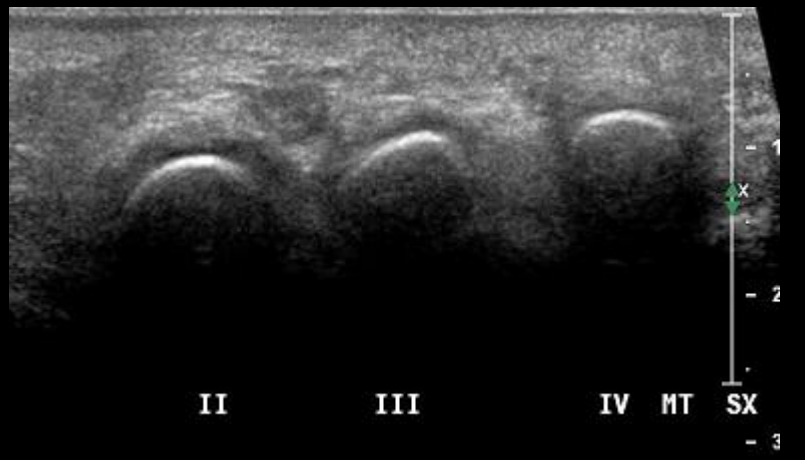
spazi intermetatarsali:

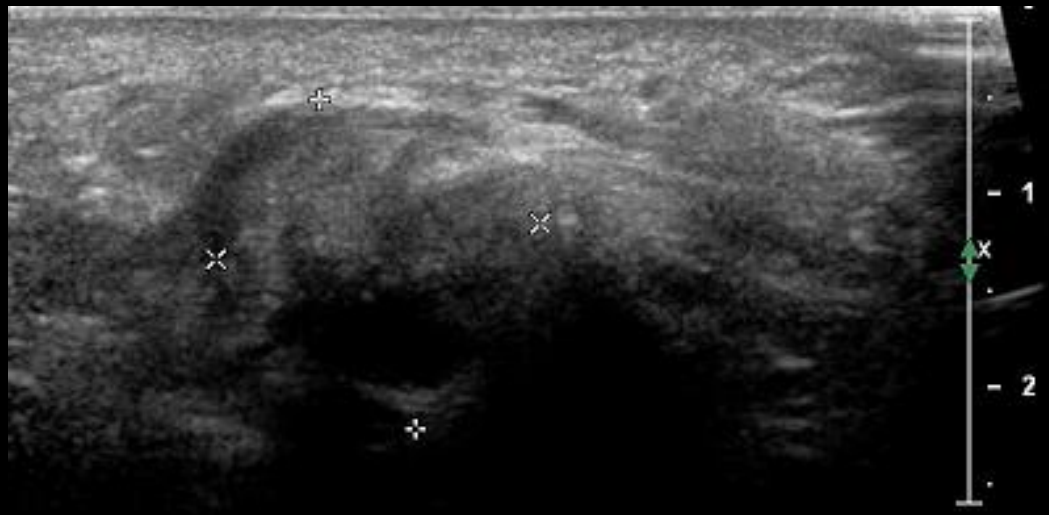
0 JOPLIN
I HEUTER
II HAUSER
III MORTON
IV ISLEN



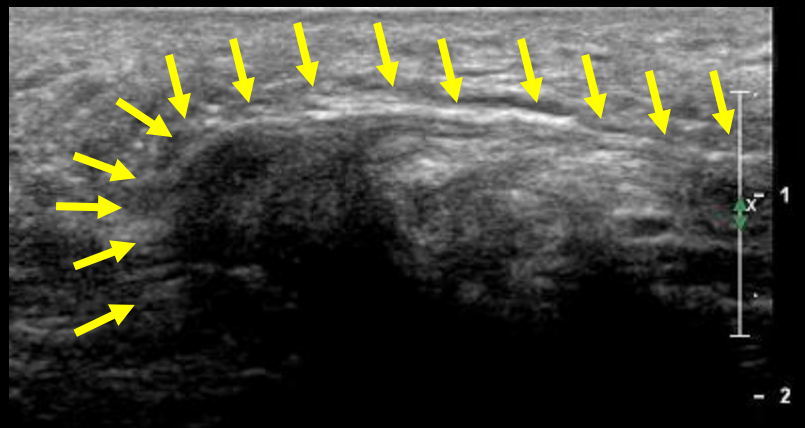


HAUSER





II SPAZIO INTERMET SX
Dist 1.77 cm
Dist 1.69 cm



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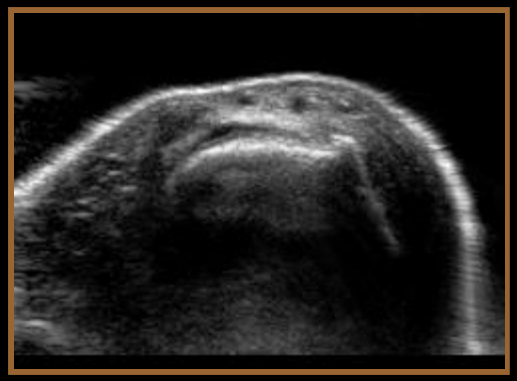
UNGHIA

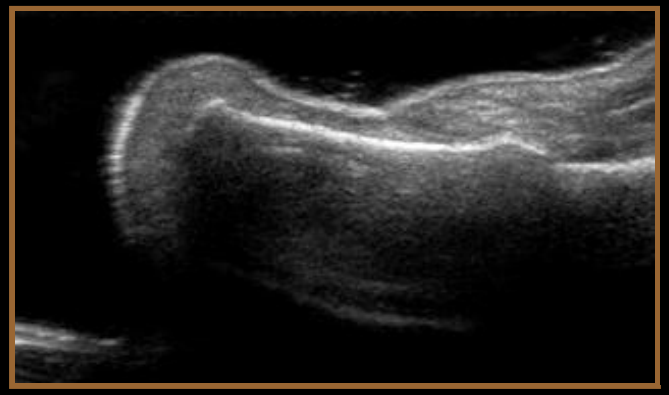
ACQUA

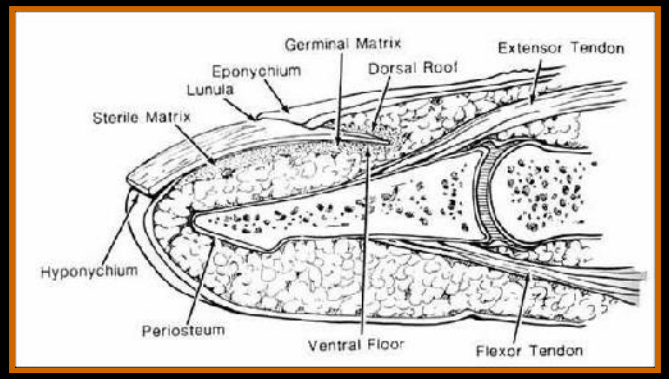
GEL

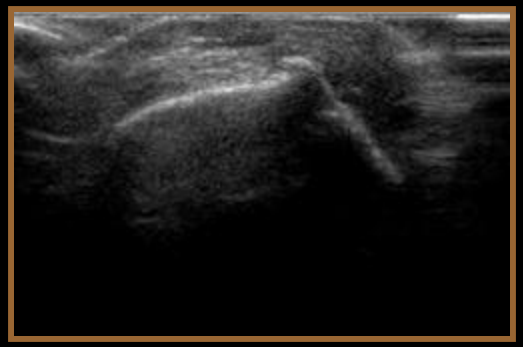
Roma, 12 aprile 2008

UNGHIA









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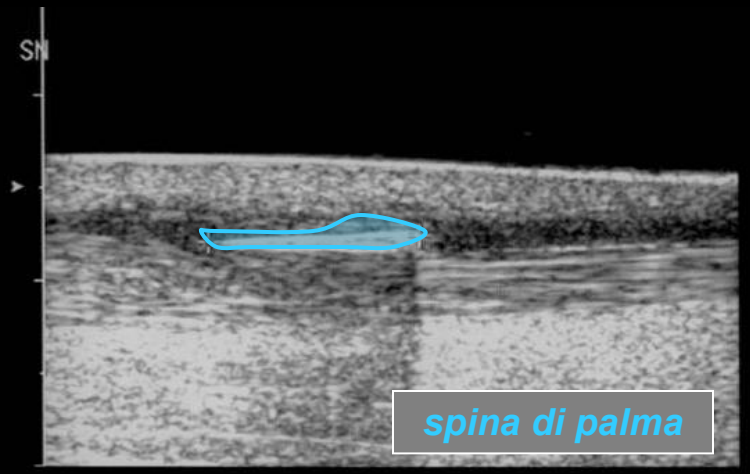

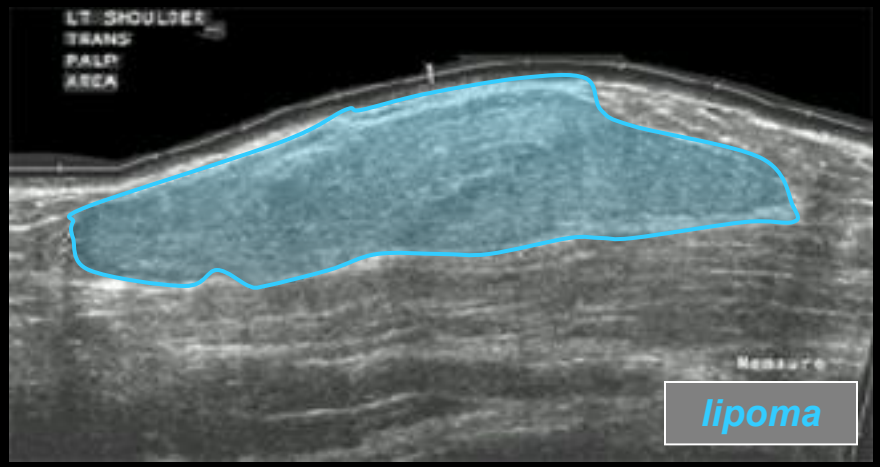

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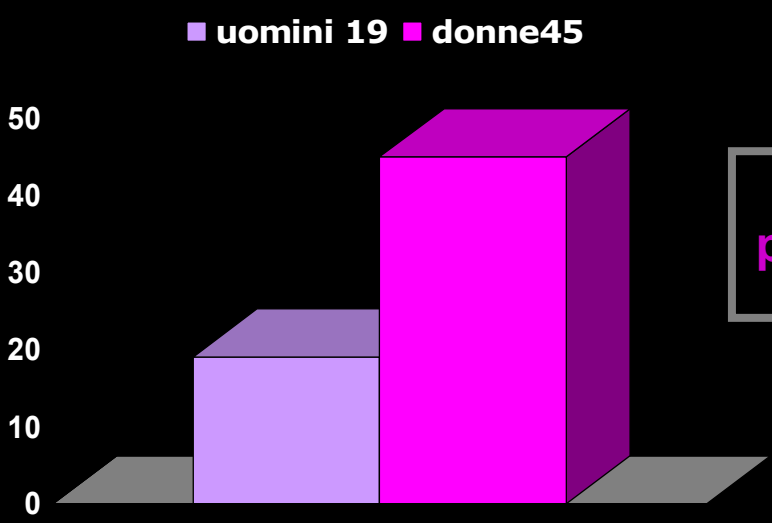
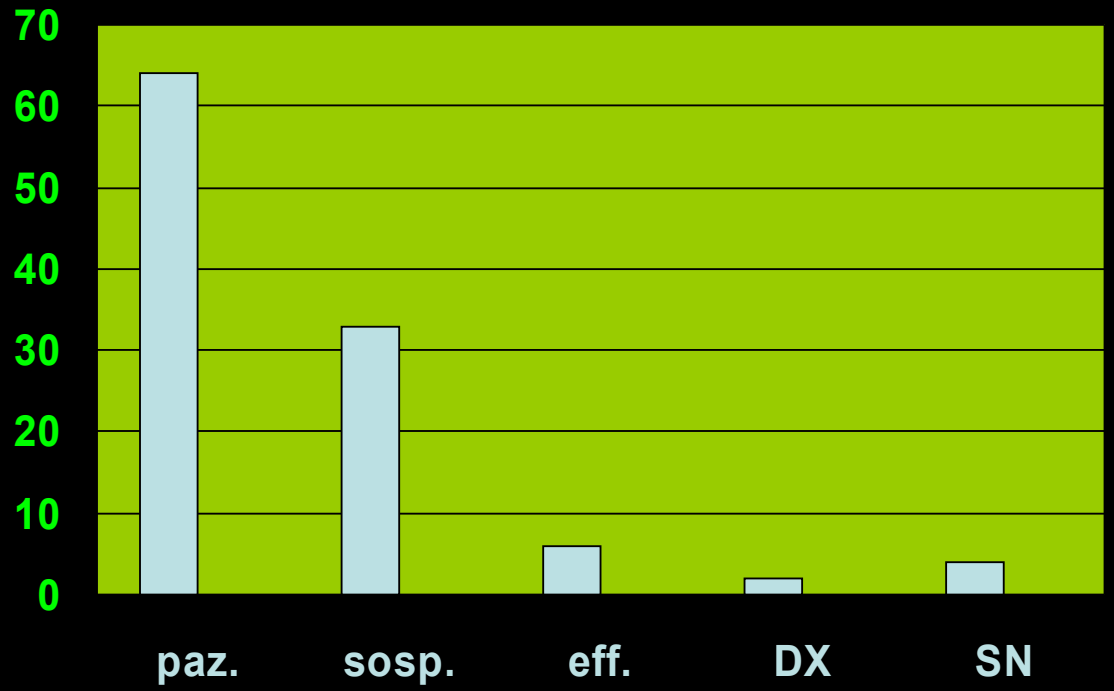
Dei 64 pazienti studiati 33 paz (51%) sono stati inviati con diagnosi di sospetto neuroma, di questi solo 5 (15%) mostravano, ecograficamente, un neuroma (6 neuromi, 2 a DX e 4 SN, di cui 5 neuromi di Morton e 1 neuroma di Hauser).



64 pazienti



Nei 28 casi restanti di sospetto neuroma si sono riscontrati:

-microcalcificazioni a carico di: cartilagine articolare, capsula articolare, intratendinee
- becchi osteofitici
- modifiche delle tuberosità delle basi delle falangi prossimali del II e III dito
- processi flogistici
- erosioni corticali della base della falange o della testa metatarsale
- presenza di sesamoidi accessori
- deformità congenite e/o acquisite delle teste metatarsali.

Roma, 12 aprile 2008

info@ecografiapiede.it

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