

SELECTING BLOCKS IN THE EMERGENCY DEPARTMENT

A. L. AMBROSOLI, MD, PHD

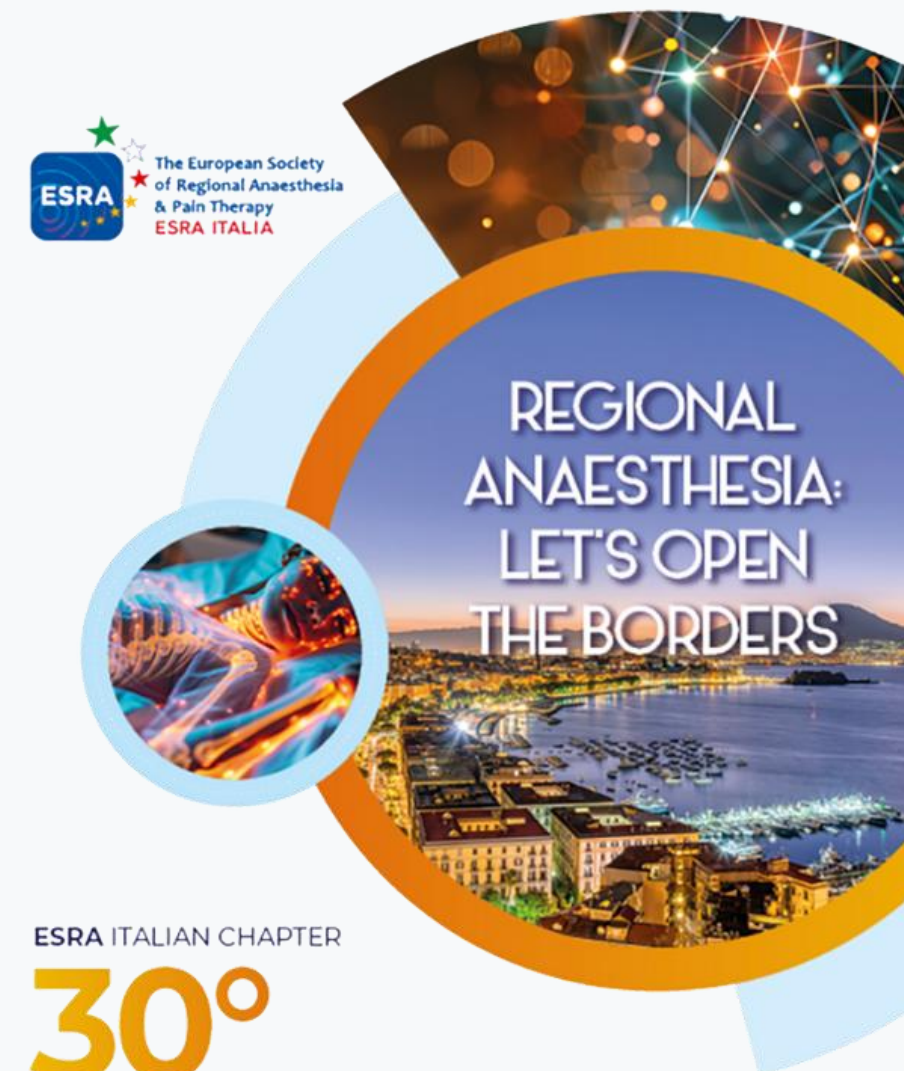
OSPEDALE F.DEL PONTE- ASST SETTE LAGHI –
VARESE

MIRCO LEO, MD

AZIENDA OSPEDALIERO-UNIVERSITARIA DI
ALESSANDRIA SS. ANTONIO E BIAGIO E CESARE
ARRIGO



THEORY



ESRA ITALIAN CHAPTER

30°
NATIONAL
MEETING

Presidents:
Giuseppe Servillo, Fabrizio Fattorini

13-15 NOV 2025

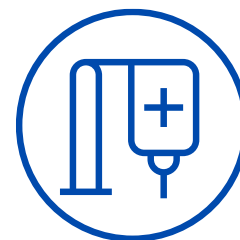
NAPOLI
HOTEL RAMADA

WHY REGIONAL ANESTHESIA IN THE ED



Reduces opioids and sedation needs

bypass the full stomach problem
earlier discharge



Rapid and effective analgesia/anesthesia

Facilitates imaging, procedures
and transfers



Early mobilization and comfort

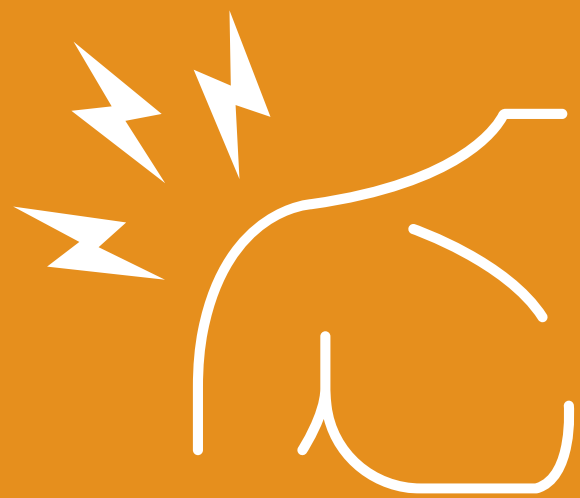
multimodal and tailor made analgesia

SELECTING THE RIGHT BLOCK

Practical, safe, ultrasound-guided

1. Where is the pain?
2. How long do I need analgesia/anesthesia
3. Who is the patient?

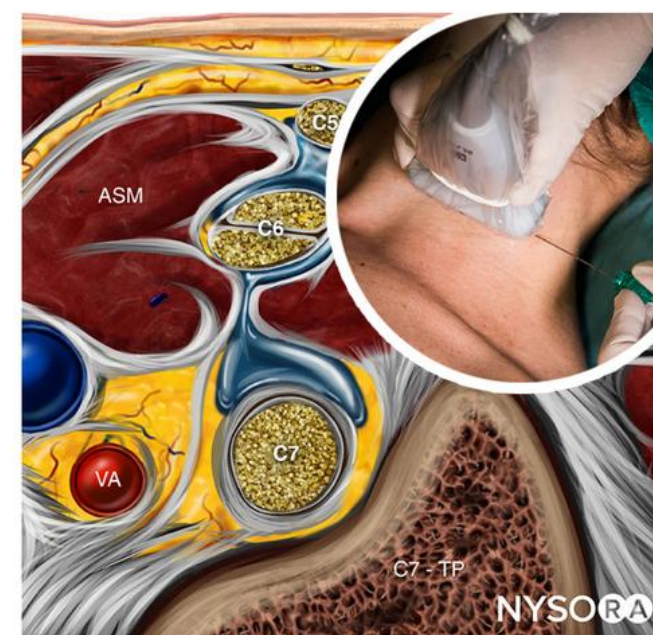
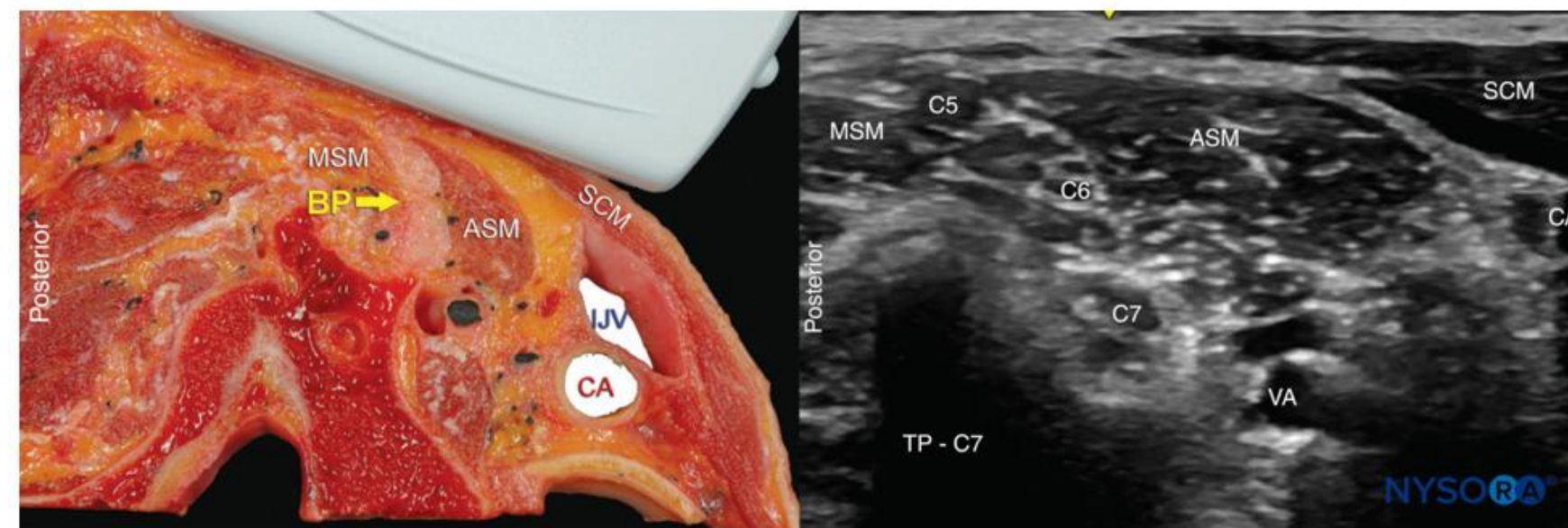




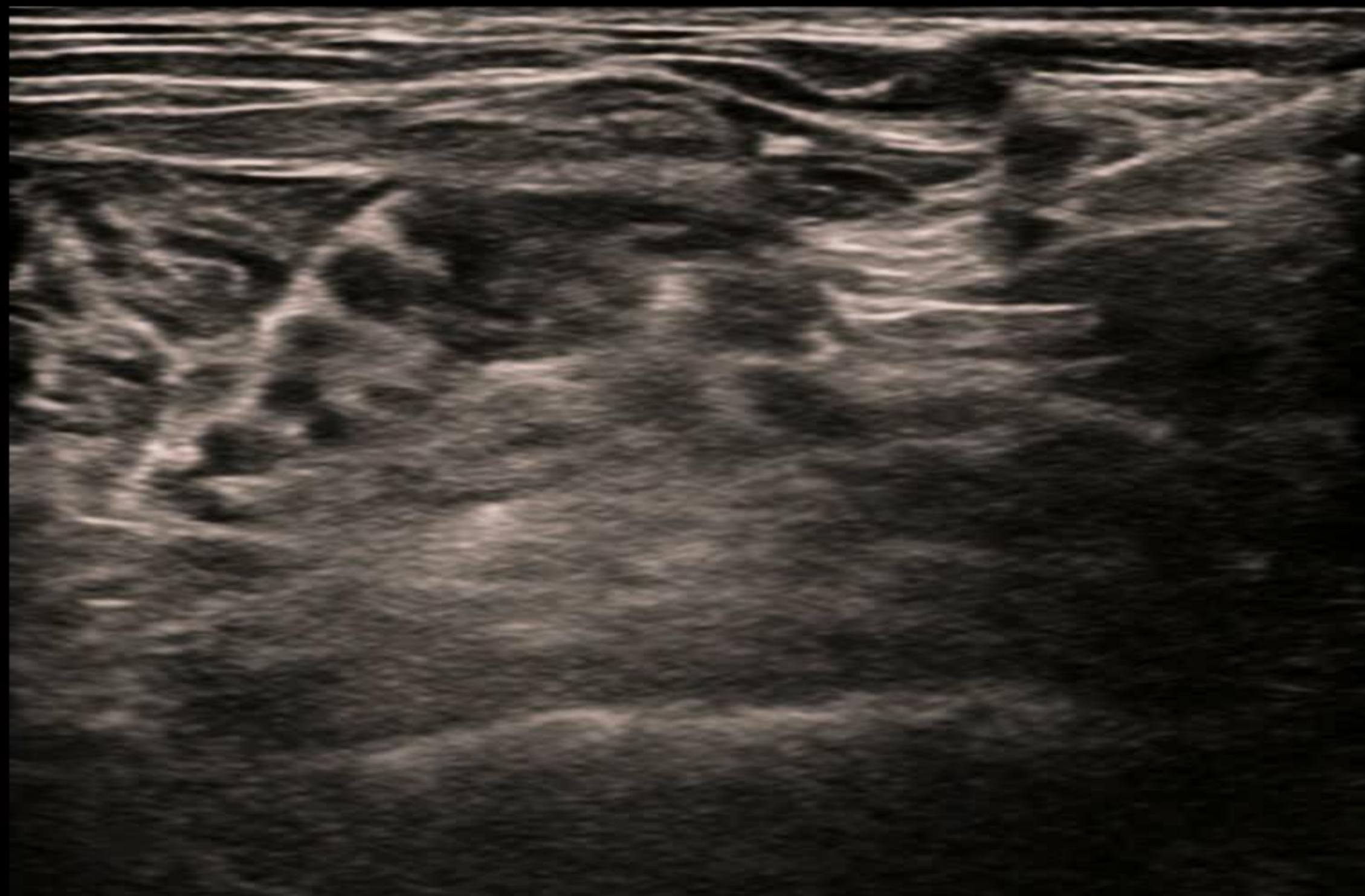
UPPER LIMB: SHOULDER

INTERSCALENIC BLOCK

- Best for: shoulder dislocation, proximal humerus fracture
- Rapid, excellent analgesia
- US image: C5-C7 roots
- Avoid in respiratory compromise (phrenic block)



B AP 93.33% MI 0.8 TIS 0.229
 F 5.6~12.9
 D 3.0
 G 45
 FR 47
 SSI 1540



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-1

-2

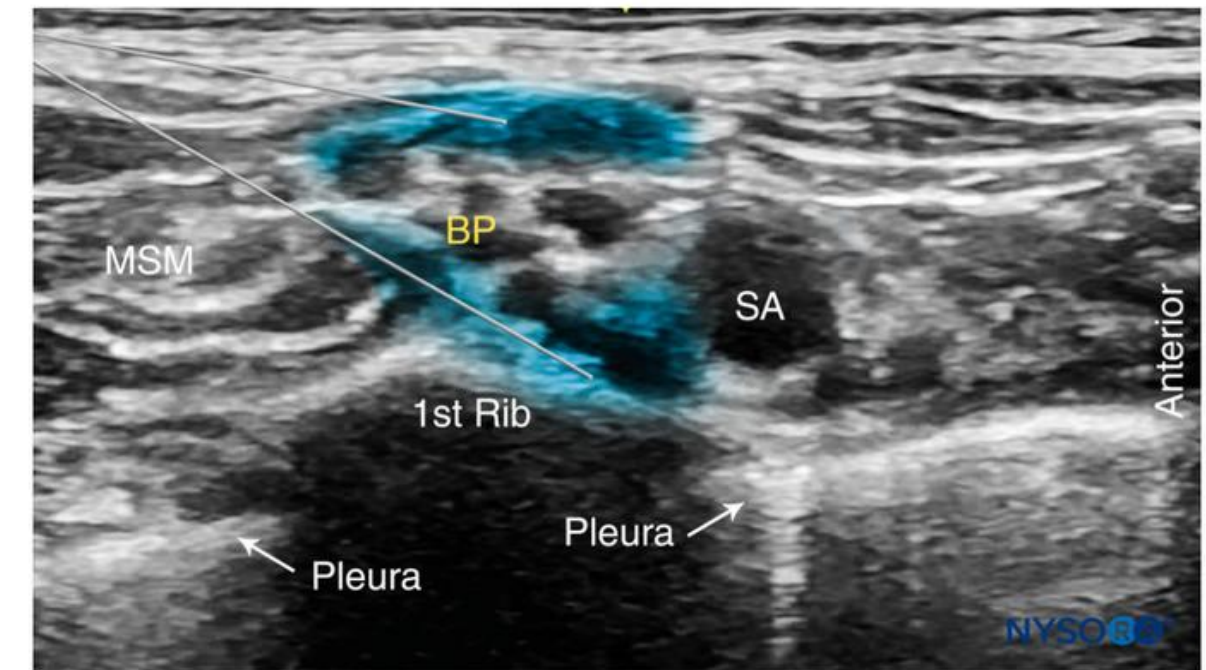
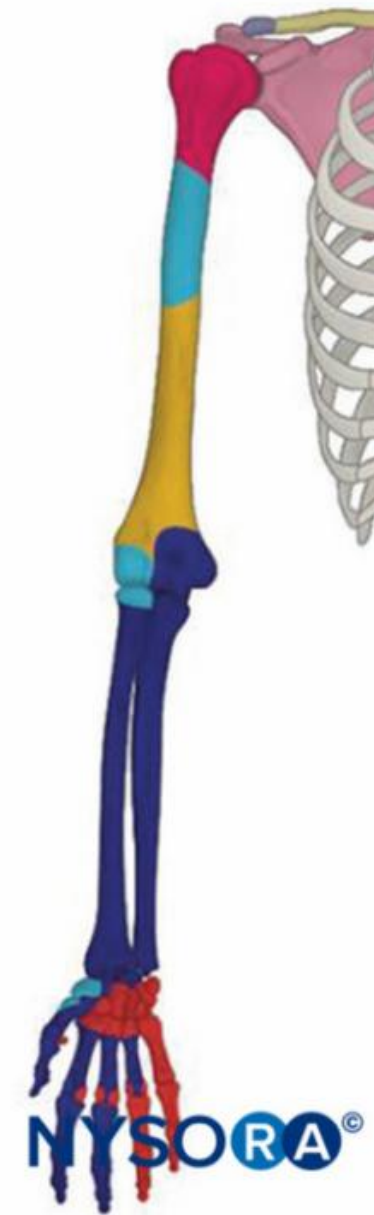
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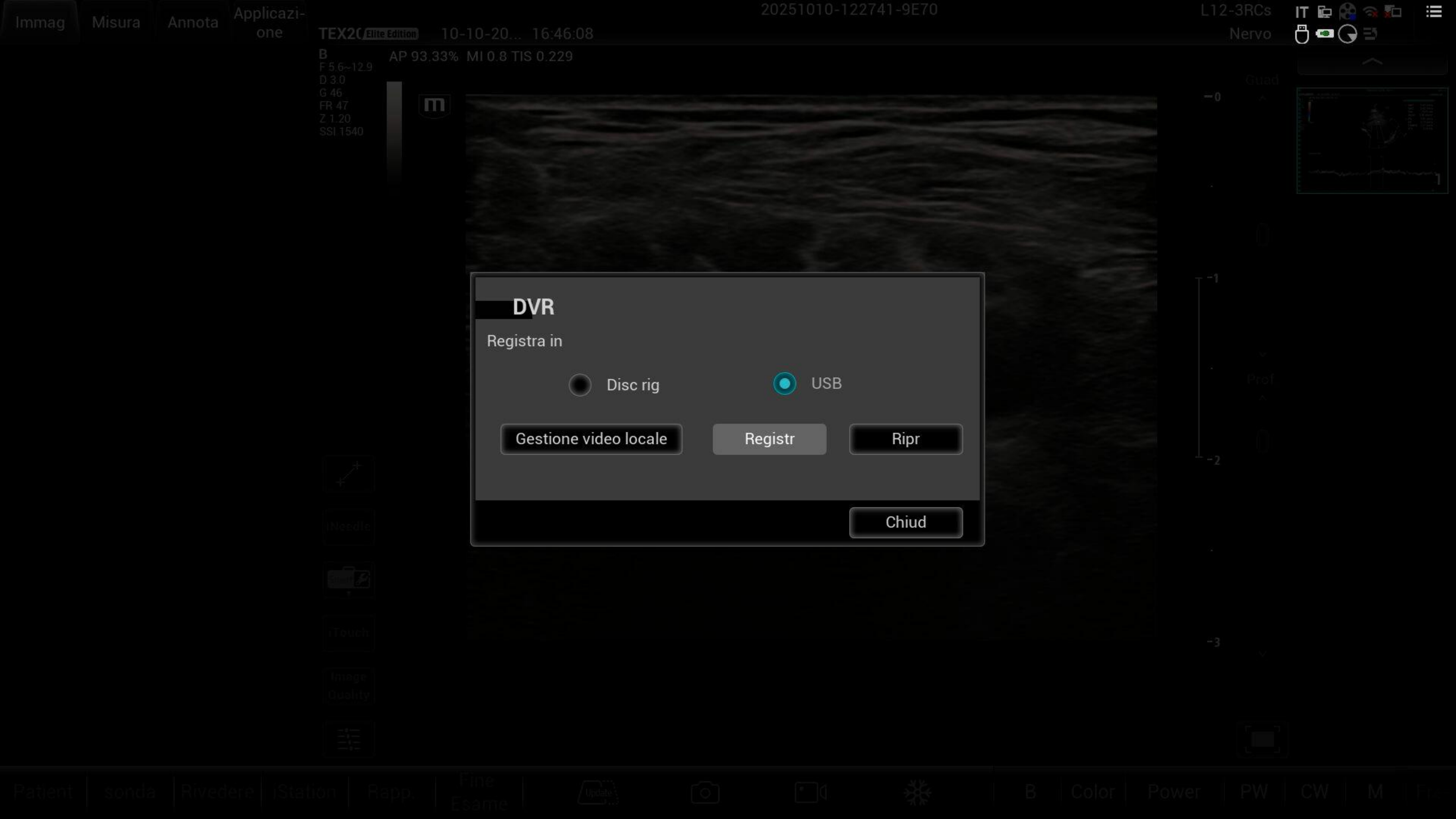


UPPER LIMB: FROM ARM TO HAND

SUPRACLAVICULAR BLOCK

- Indication: clavicle, scapula, arm, forearm, hand
- Fast, dense block for distal upper limb
- Mind pneumothorax, low risk with US





Immag

Misura

Annota

Applicazi-one

TEX2C Elite Edition

10-10-20... 16:46:08

20251010-122741-9E70

112-3RCs

Nervo

IT

B
F 5.6~12.9
D 3.0
G 46
FR 47
Z 1.20
SSI 1540



Quad

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Prof

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DVR

Registra in



Disc rig



USB

Gestione video locale

Registr

Ripr

Chiud



Needle



Touch

Image Quality



Patient

sonda

Rivedere

Station

Rapp.

Fine Esame



B

Color

Power

PW

CW

M

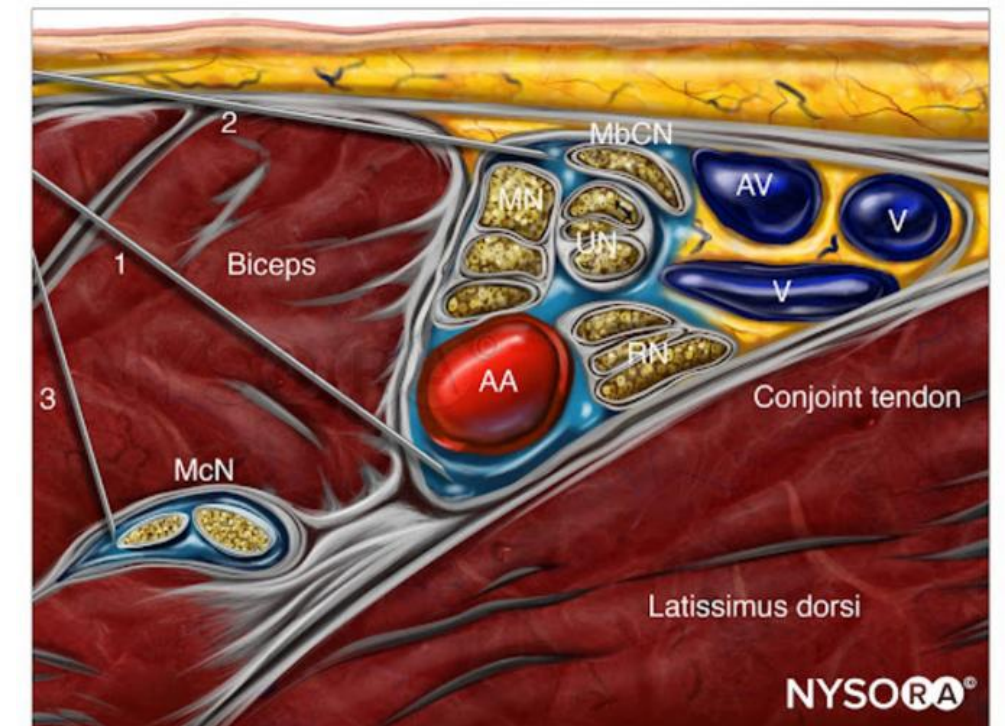
Pr



UPPER LIMB: FROM ARM TO HAND

ASCELLAR BLOCK

- Indication: for arm, wrist, hand
- Ideal for PS: low risk, safe and easy
- (no pleura, no cervical plexus)
- Add cutaneous branches if needed (dorsal wound)



B
F 5.6~12.9
D 2.5
G 46
FR 47
Z 1.20
SSI 1540
AP 93.33% MI 0.8 TIS 0.137

Linea media ☐

Gamma din.

Dual ☐

Inver. S/D

S/G 1:1

Map grig

iClear⁺

Miglioramento ago



iNeedle



iTouch

Image Quality





Dott. M. Leo, dott.ssa B. Savarese

Guad

Prof.

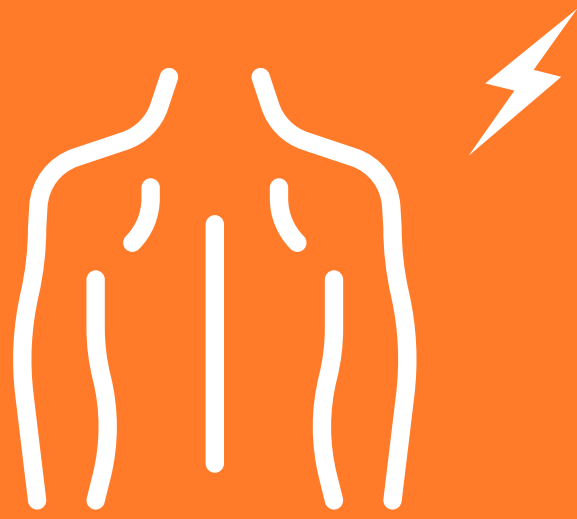
 1

 2

0°

Steer B





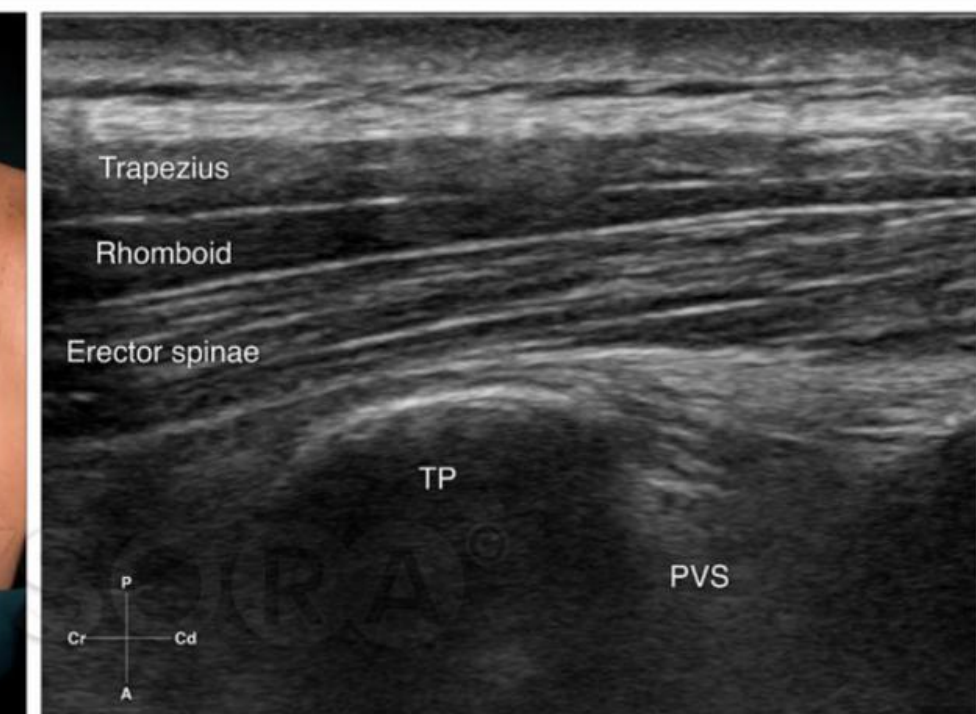
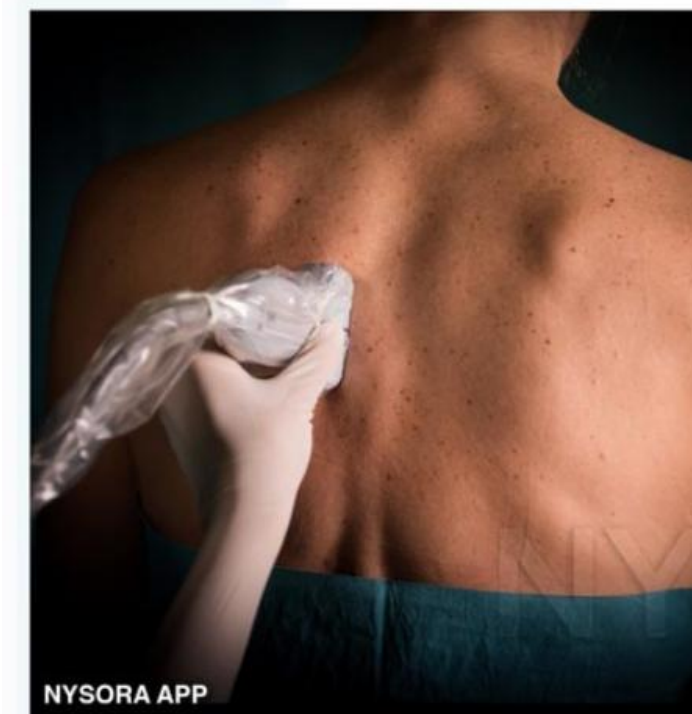
THORACIC REGION

ESP BLOCK

- Best for: rib fractures, thoracic trauma, back pain
- Simple if a supine or sitting position is possible
- Safer than paravertebral

PARAVERTEBRAL

- Gold standard for unilateral thoracic pain
- More invasive, less feasible in ED





Immag

Misura

Annota

Applicazi-one

LI 2-3RCs
MSK

IT
System icons

B
F 5.6~12.9
D 3.0
G 47
FR 47
SSI 1580

AP 93.33% MI 0.8 TIS 0.229

Grad

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Prof



DVR

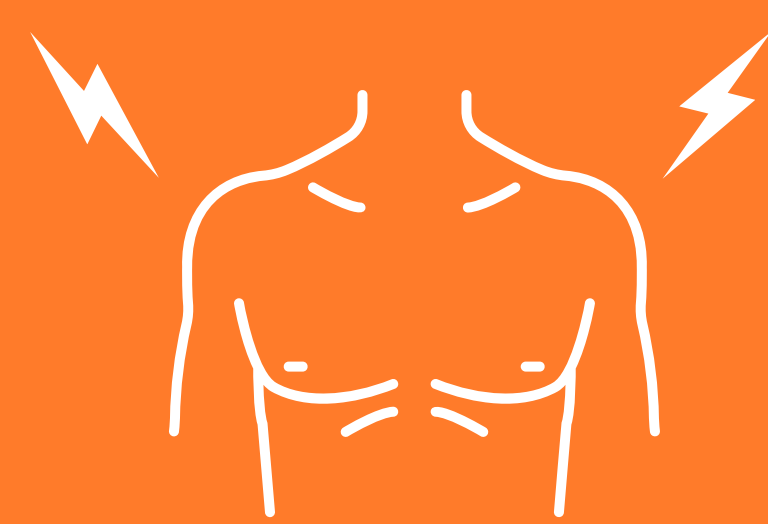
Registra in

☐ Disc rig ☒ USB

Gestione video locale Registr Ripr

Chiud





ANTERIOR CHEST AND CLAVICLE

SERRATUS ANTERIOR BLOCK

lateral chest trauma, drain
insertion

CLAVI-PECTORAL BLOCK

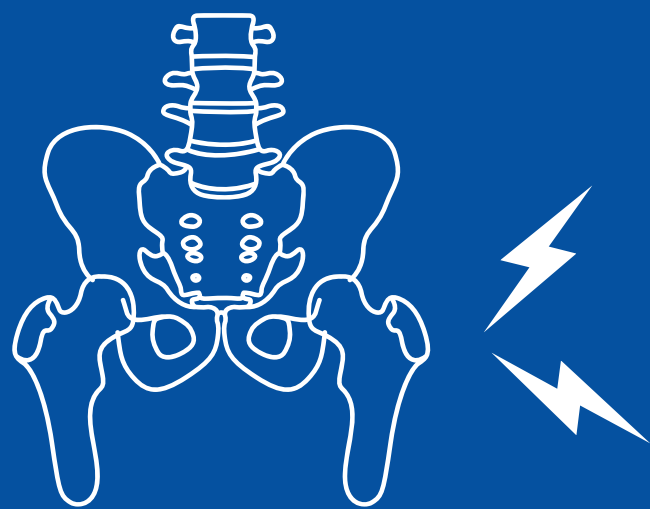
clavicle fractures

INFRACLAVICULAR BLOCK

alternative to supraclavicular



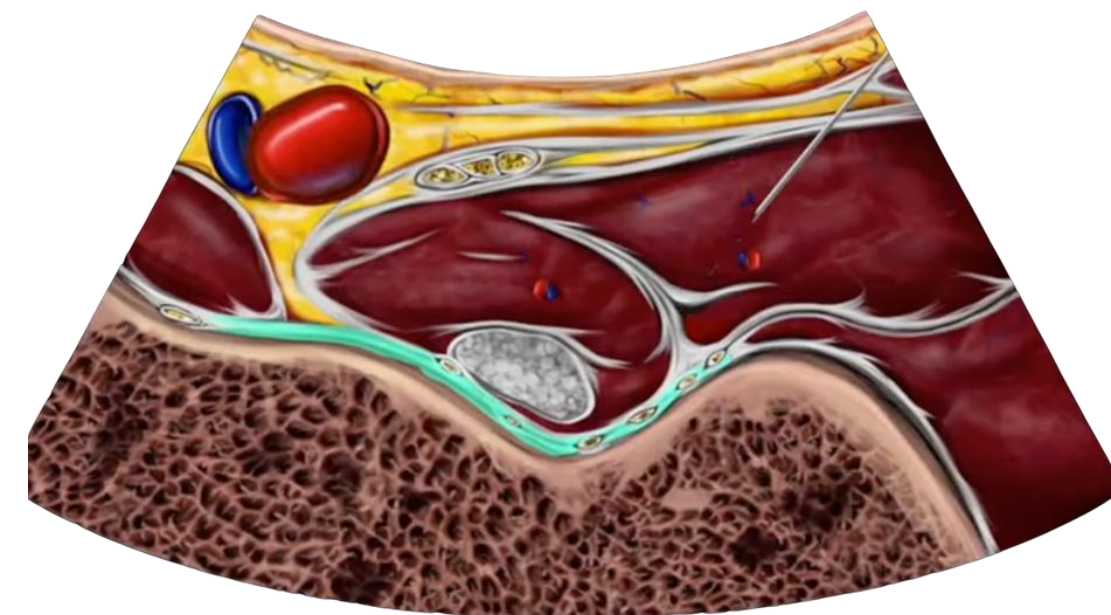
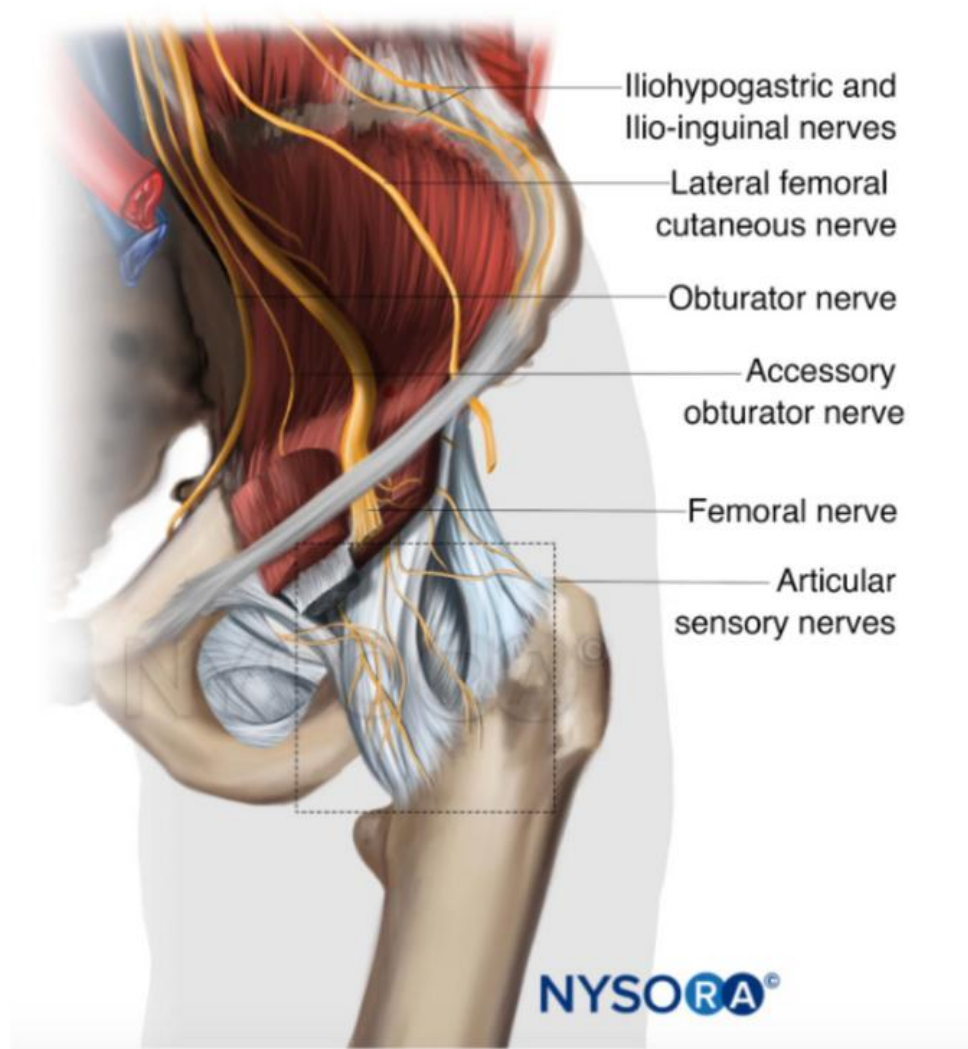
- Quick
- Superficial
- Often underestimated allies



LOWER LIMB: HIP

FEMORAL NERVE BLOCK

- Best for: fracture of shaft or neck of femur
- Rapid analgesia, easy US target
- Causes quadriceps weakness



PENG BLOCK (hip block)

- Best for: pain from hip fracture
- Motor-sparing, excellent pre-op analgesia



Immag

Misura

Annota

Applicazi-one

20251013-170128-9E70

112-3RCs

IT



Nervo



TEX2C Elite Edition

13-10-20... 19:04:07

B
F 5.6~12.9
D 3.0
G 46
FR 47
Z 1.20
SSI 1540

AP 93.33% MI 0.6 TIS 0.312



Grad

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Prof

DVR

Registra in



Disc rig



USB

Gestione video locale

Registr

Ripr

Chiud



iNeedle



iTouch

Image Quality



Patient

sonda

Rivedera

iStation

Rapp.

Fine Esame



B

Color

Power

PW

CW

M



B
F 1.7~5.2
D 5.0
G 62
FR 42
SSI 1540

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DVR

Registra in

☐ Disc rig ☒ USB

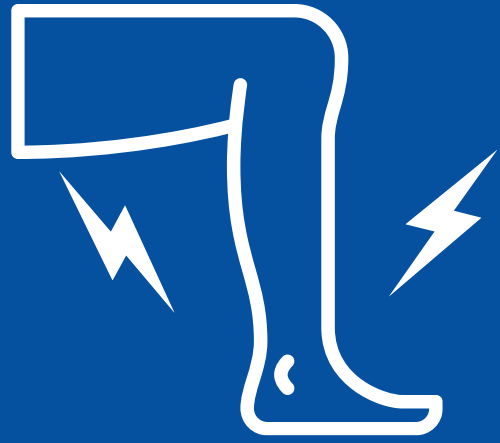
Gestione video locale

Registr

Ripr

Chiud

Dott. M. Leo, Dott.ssa B. Savarese



LOWER LIMB: LEG AND FOOT

SCIATIC POPLITEAL BLOCK

- Best for: ankle, foot trauma, wound repair
- Reliable, long-lasting analgesia
- Add saphenous (adductor canal) for medial coverage





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112-3RCs

IT



Nervo



TEX2C Elite Edition

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B
F 5.6~12.9
D 3.5
G 46
FR 47
Z 1.20
SSI 1540

AP 93.33% MI 0.8 TIS 0.229



Grad

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Prof

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DVR

Registra in



Disc rig



USB

Gestione video locale

Registr

Ripr

Chiud



Esc



Needle



Touch

Image Quality



Patient

sonda

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Station

Rapp.

Fine
Esame



B

Color

Power

PW

CW

M



SEVERAL STEPS FOR EFFECTIVE PAIN CONTROL

