



VALUTAZIONE ECOGRAFICA DELLA  
MATURAZIONE DELLA FAV

RELATORE: FENOGLIO GIUSEPPE

# MATURAZIONE FAV: COS'È?

## Maturation

Process leading to a newly created AV access being usable for haemodialysis; it encompasses enlargement and thickening of the draining fistula vein, increases in the blood flow and absence of thrombosis and bleeding as mechanisms of AV access failure (synonym: suitability for dialysis).



## MATURAZIONE FAV: COME?

La maturazione è un processo complesso, determinato dalle forze di taglio sulle pareti della vena arterializzata (shear stress) indotte dall'aumento del flusso in conseguenza dell'anastomosi creata. Tali forze determinano:

- Aumento del diametro del lume della vena (mediato dall'ossido nitrico, NO)
- Aumento dello spessore della parete della vena
- Ulteriore aumento del flusso anche per un aumento del diametro interno dell'arteria, fino al raggiungimento di un equilibrio

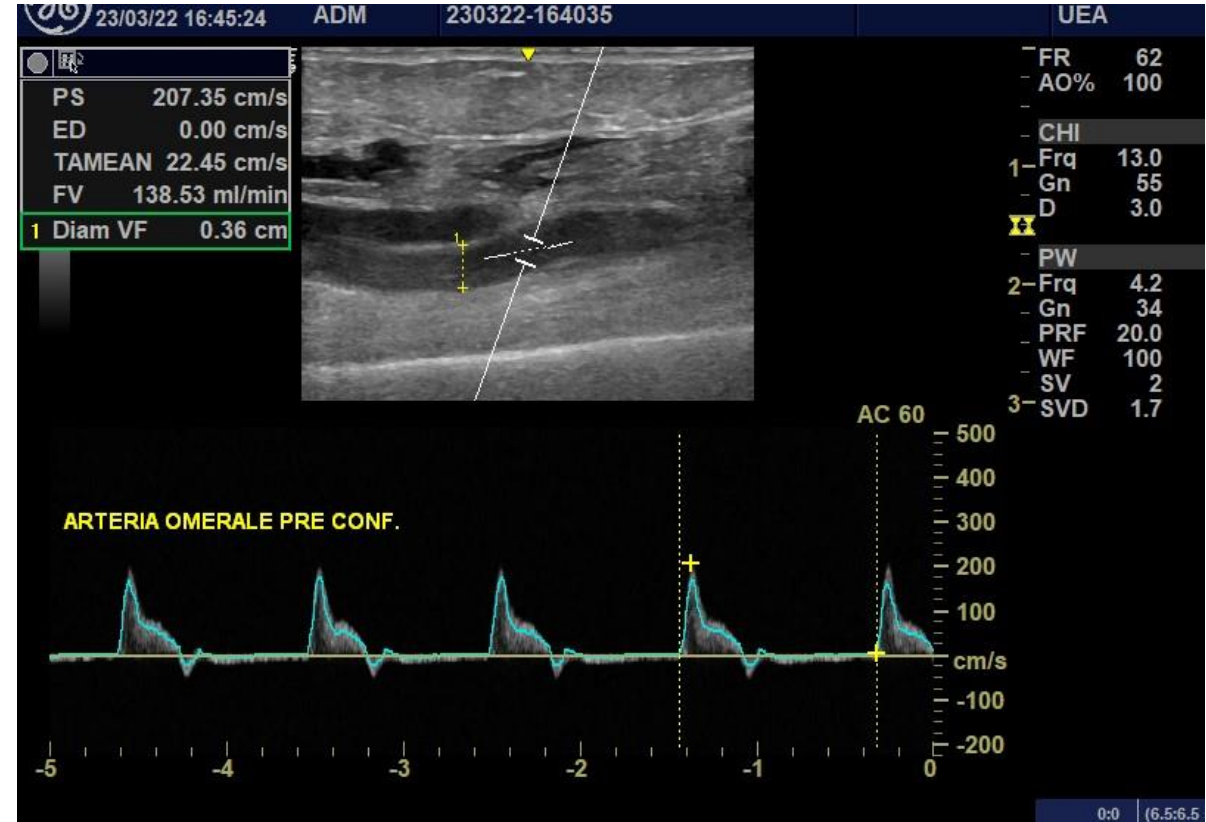
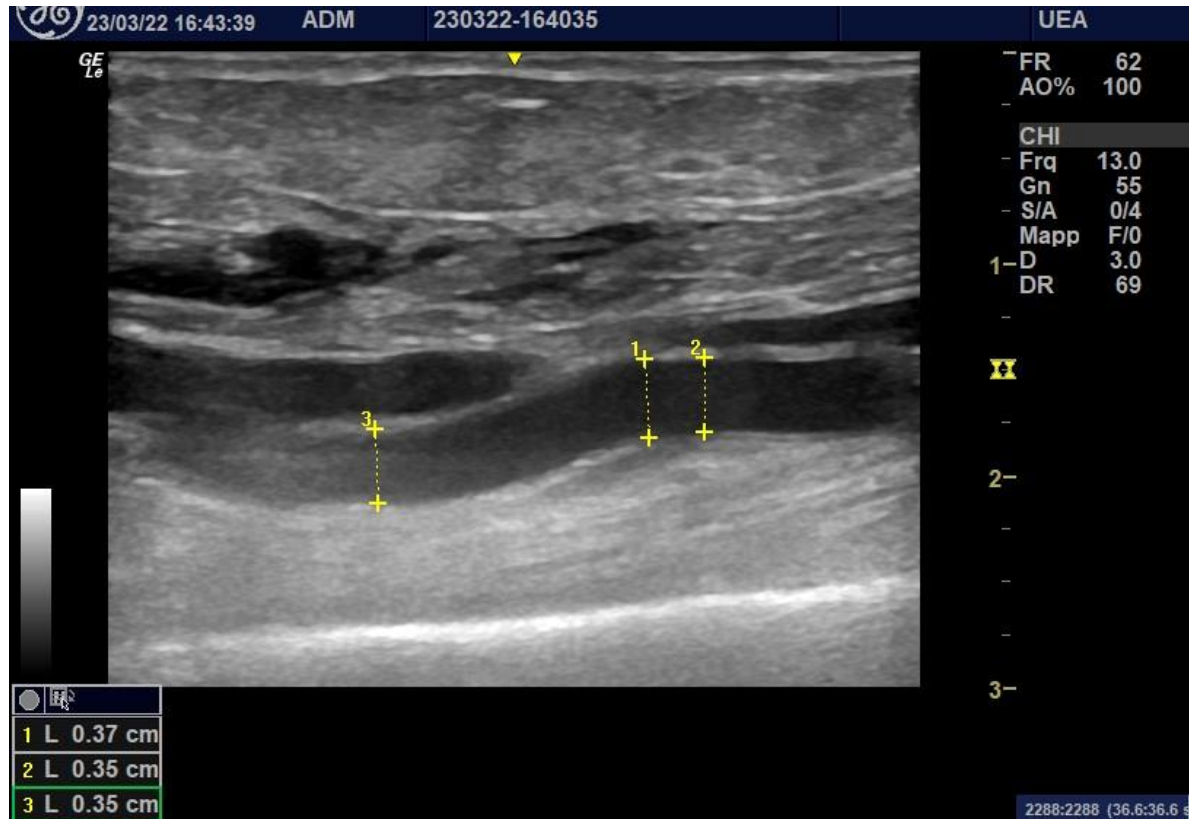
La durata di tali fenomeni è variabile, in genere compresa tra le 4 e le 6 settimane

# FAV O GRAFT MATURI: QUANDO?

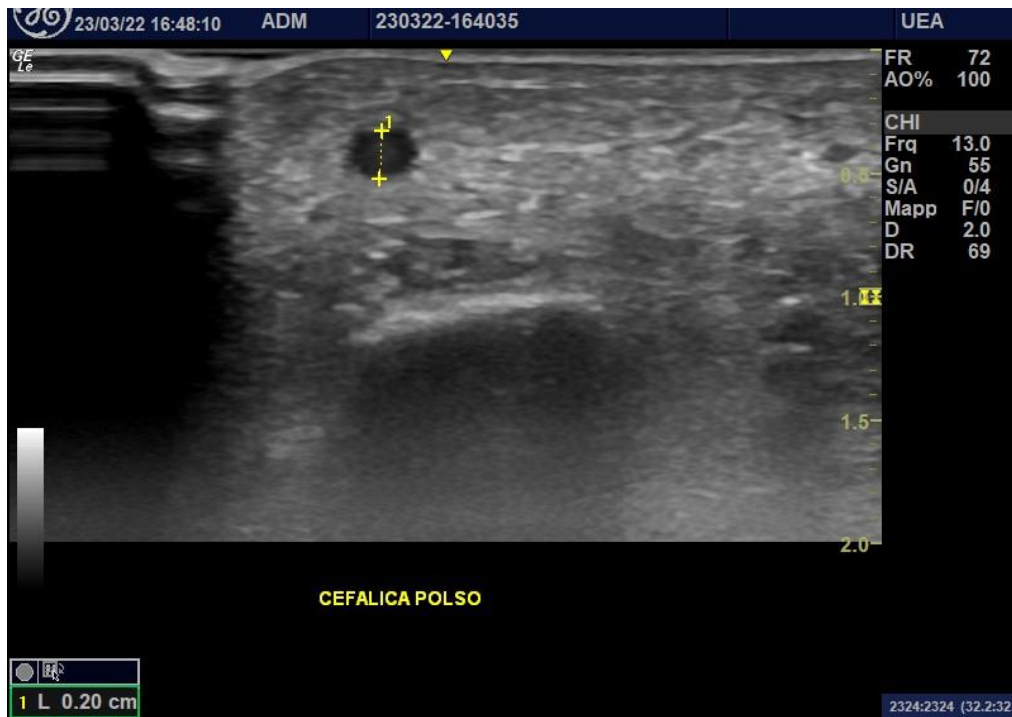
**Mature fistula:** A mature fistula can be defined as physiologically mature or functionally mature.<sup>3-5</sup> In these guidelines, a mature fistula is one that can provide prescribed dialysis consistently with 2 needles for more than two thirds of dialysis sessions within 4 consecutive weeks. The criterion of two thirds is used to include studies referenced in these guidelines; however, it must be emphasized that truly mature AV access should provide reliable prescribed dialysis most times, given expert cannulation and lack of cannulation or other technical complications.

**Mature graft:** In these guidelines, a mature graft is one that can provide prescribed dialysis consistently with 2 needles for more than two thirds of dialysis sessions within 4 consecutive weeks.<sup>1</sup> The criterion of two thirds is used to include studies referenced in these guidelines; however, it must be emphasized that truly mature AV access should provide reliable prescribed dialysis most times, given expert cannulation and lack of cannulation or other technical complications.

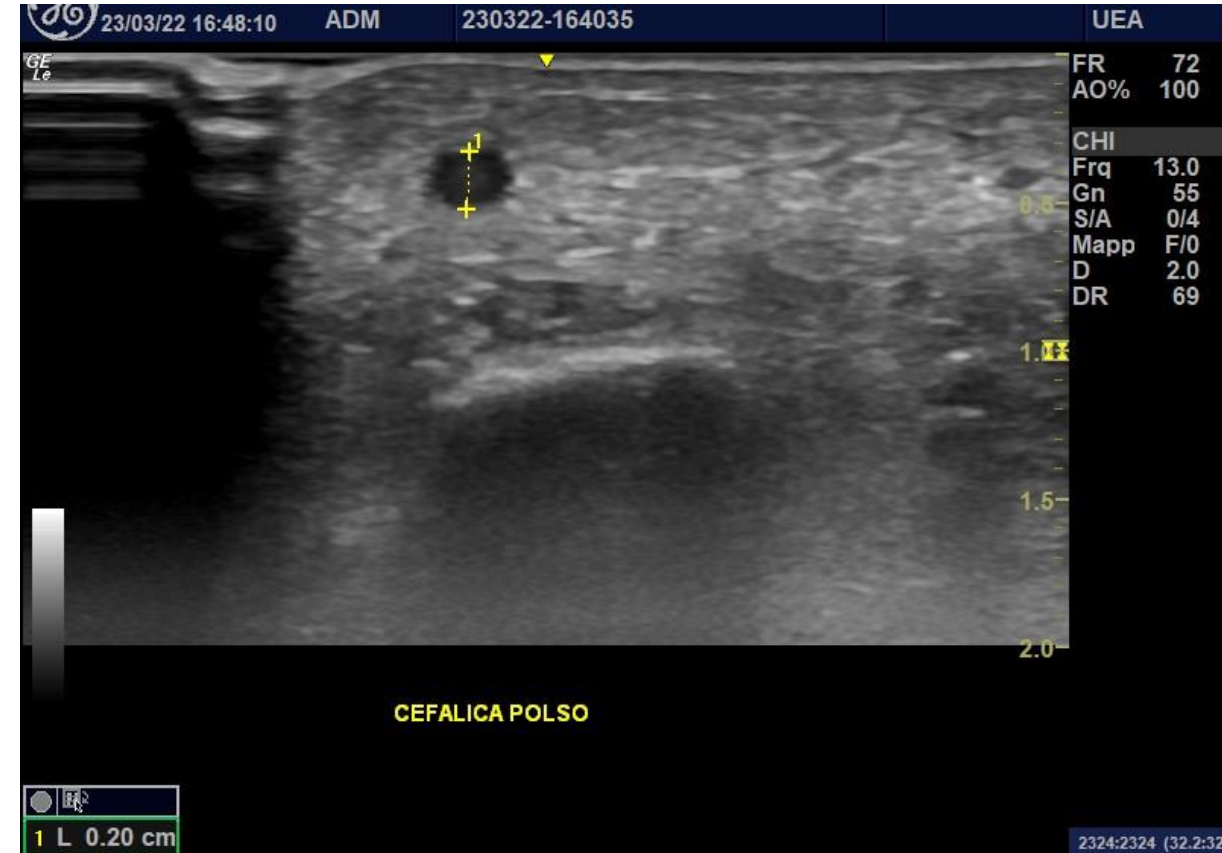
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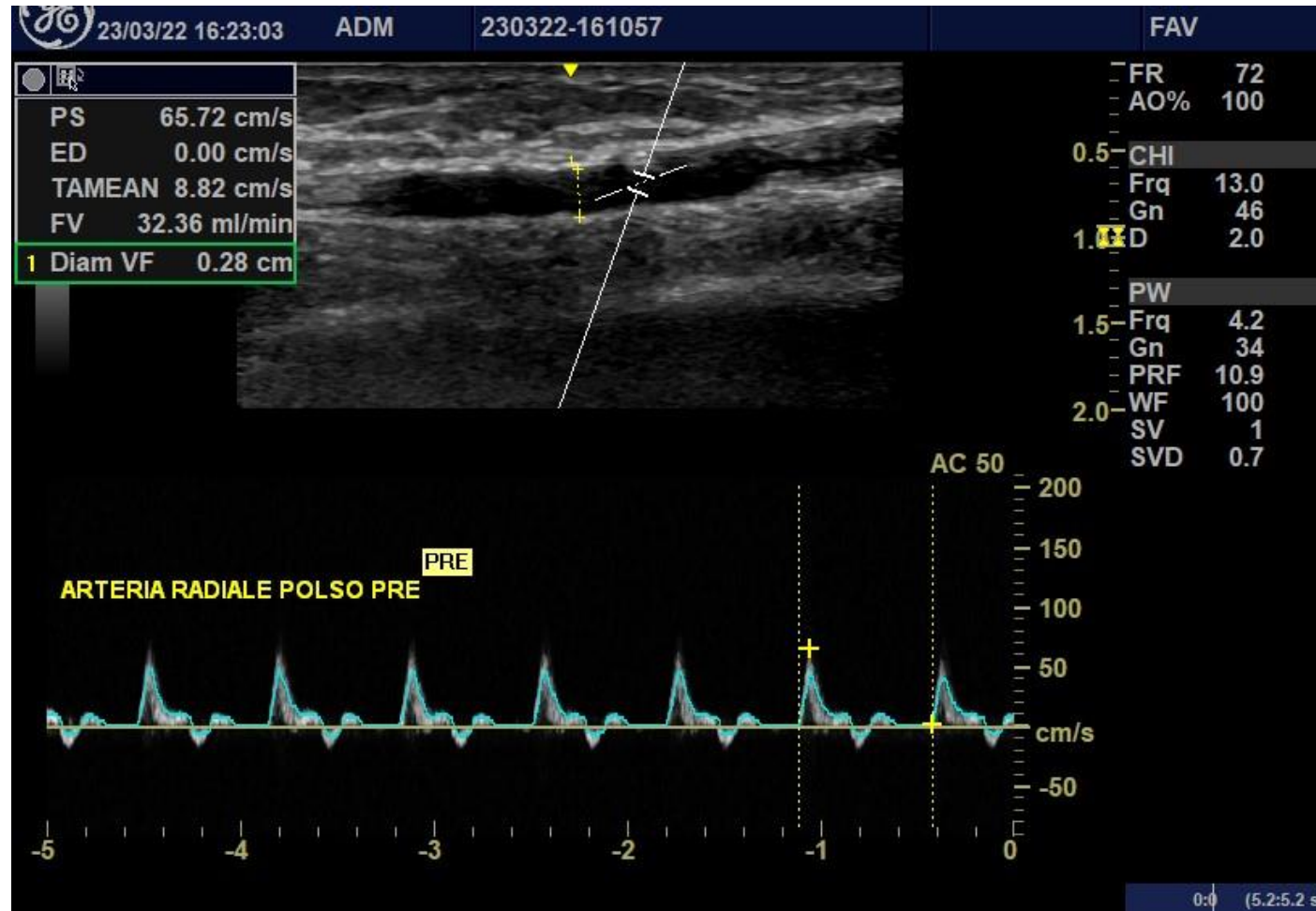
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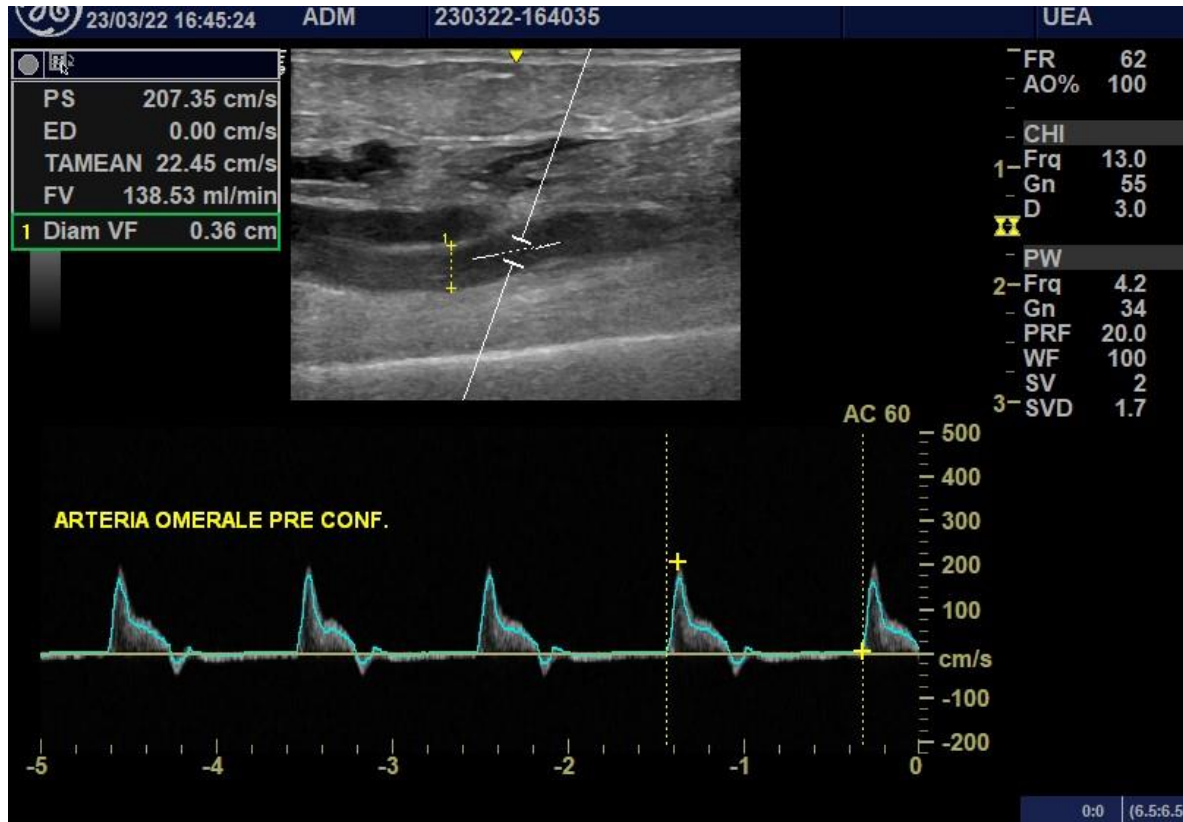


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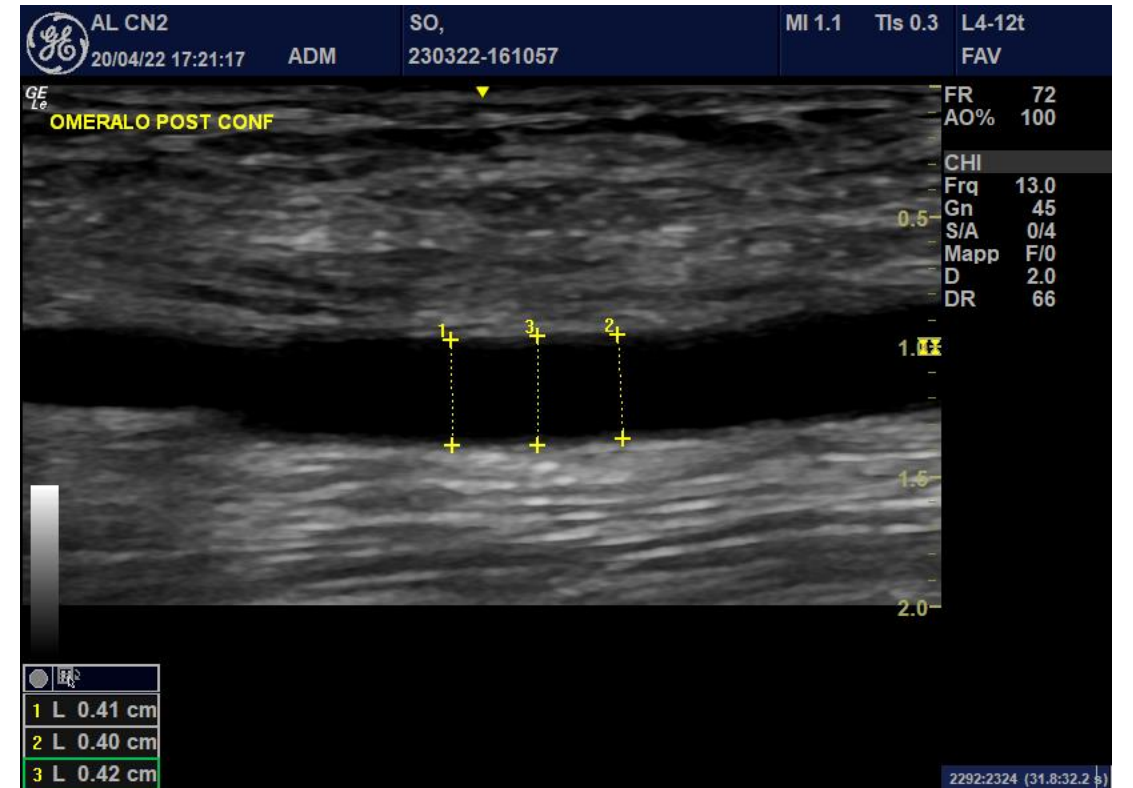
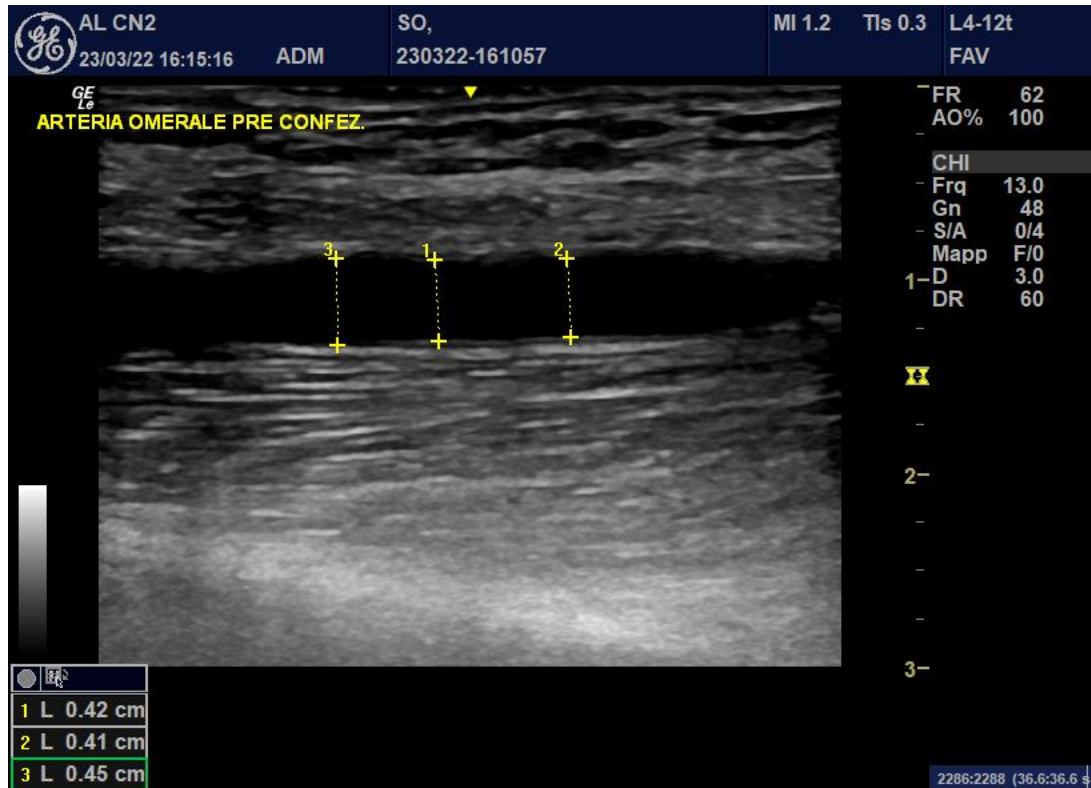
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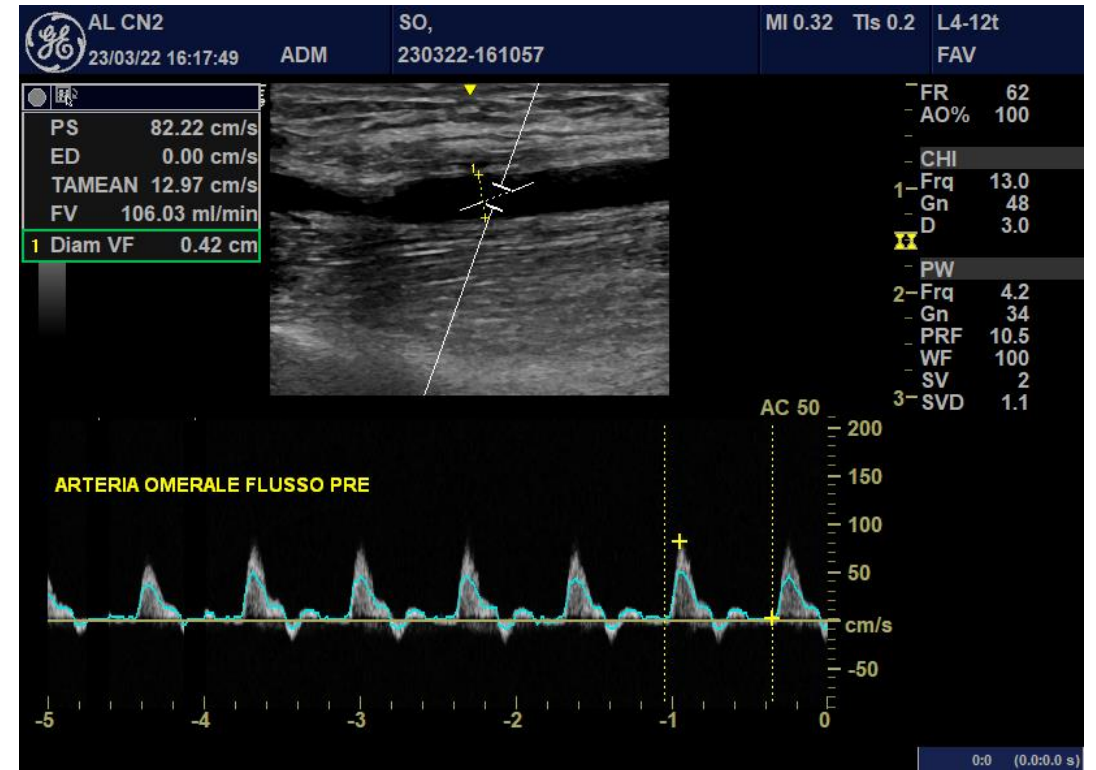
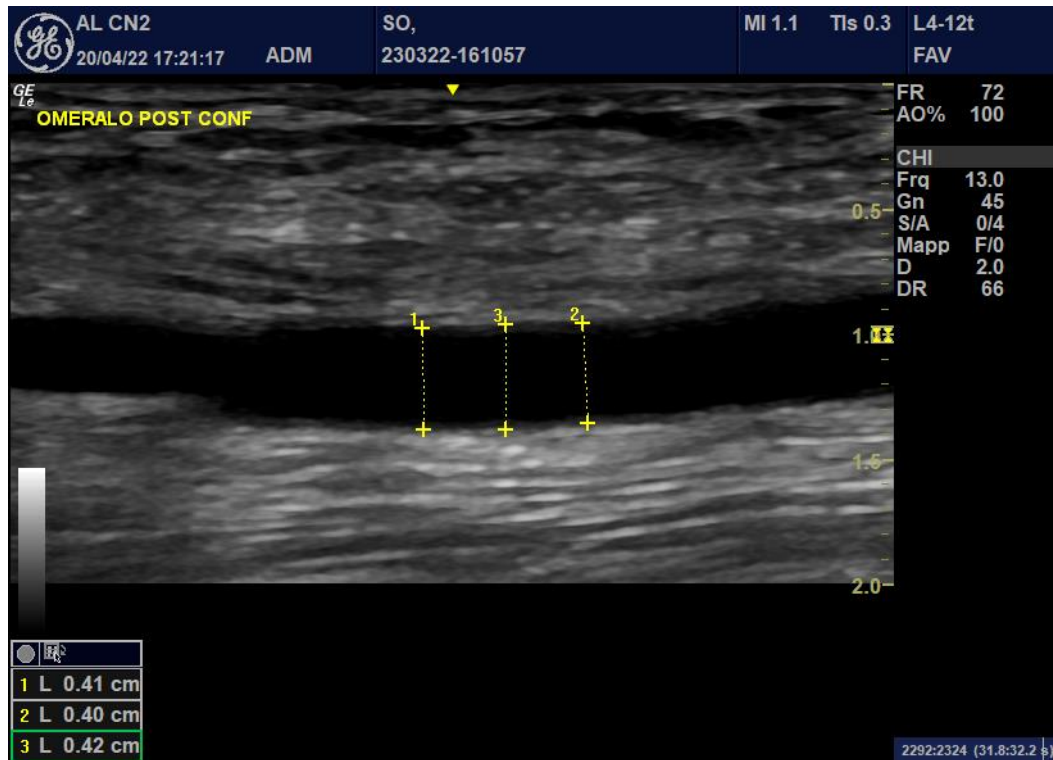
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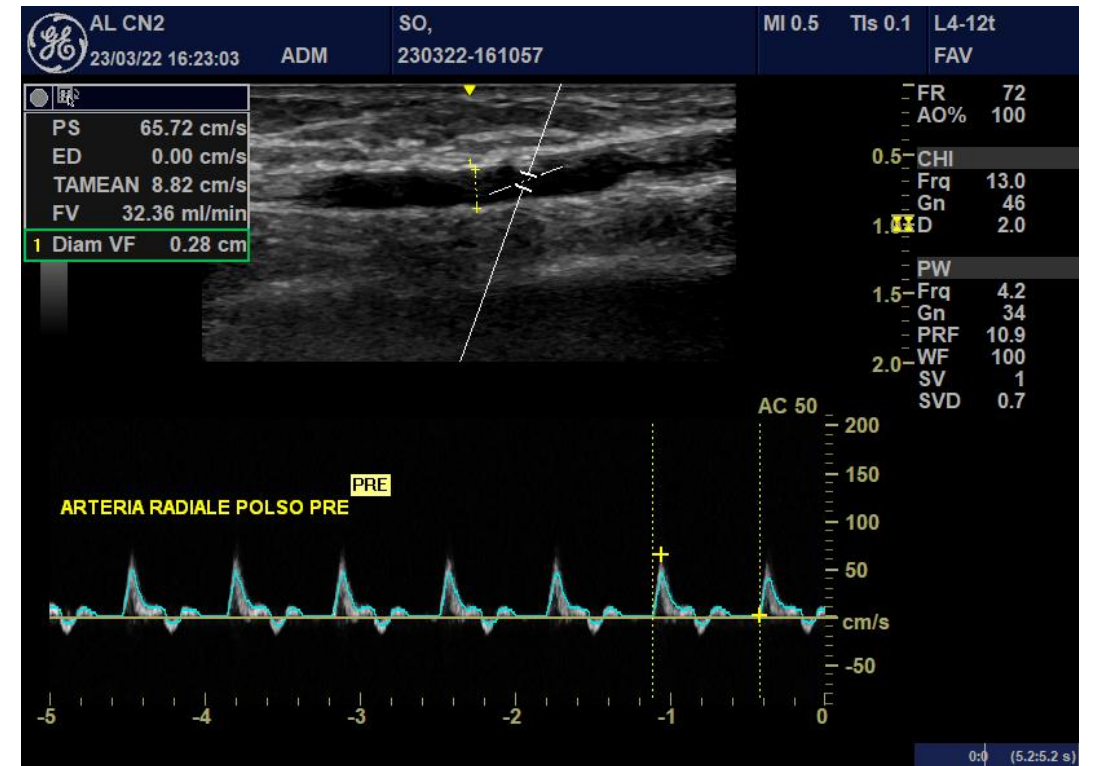
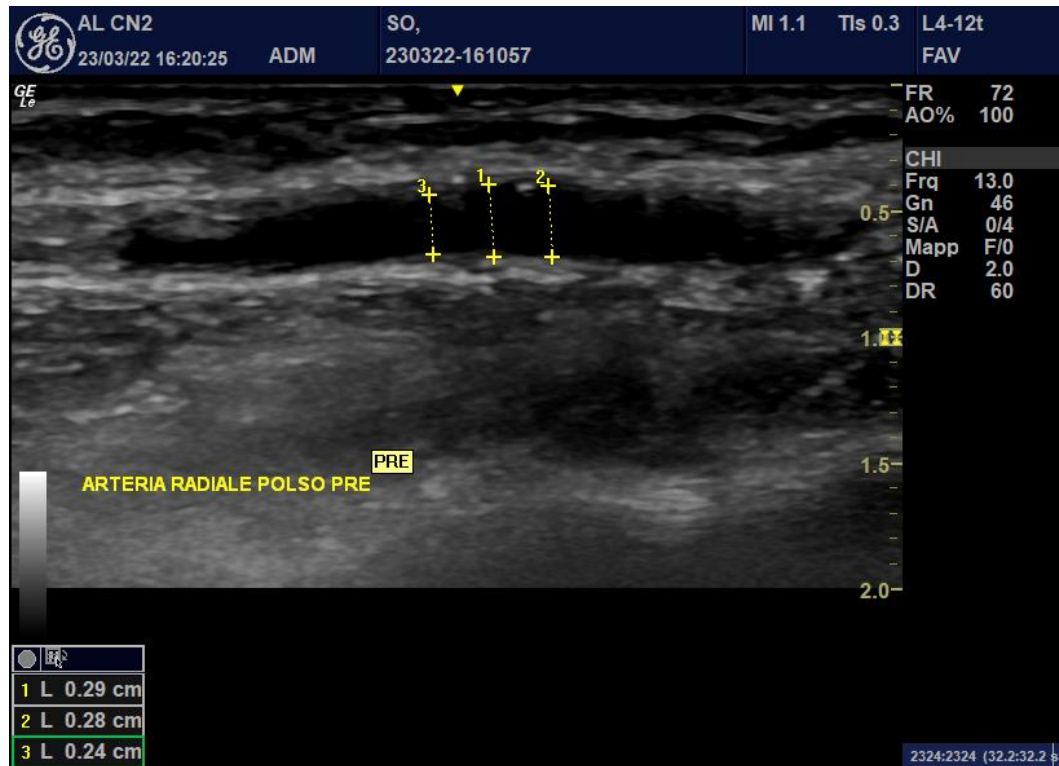
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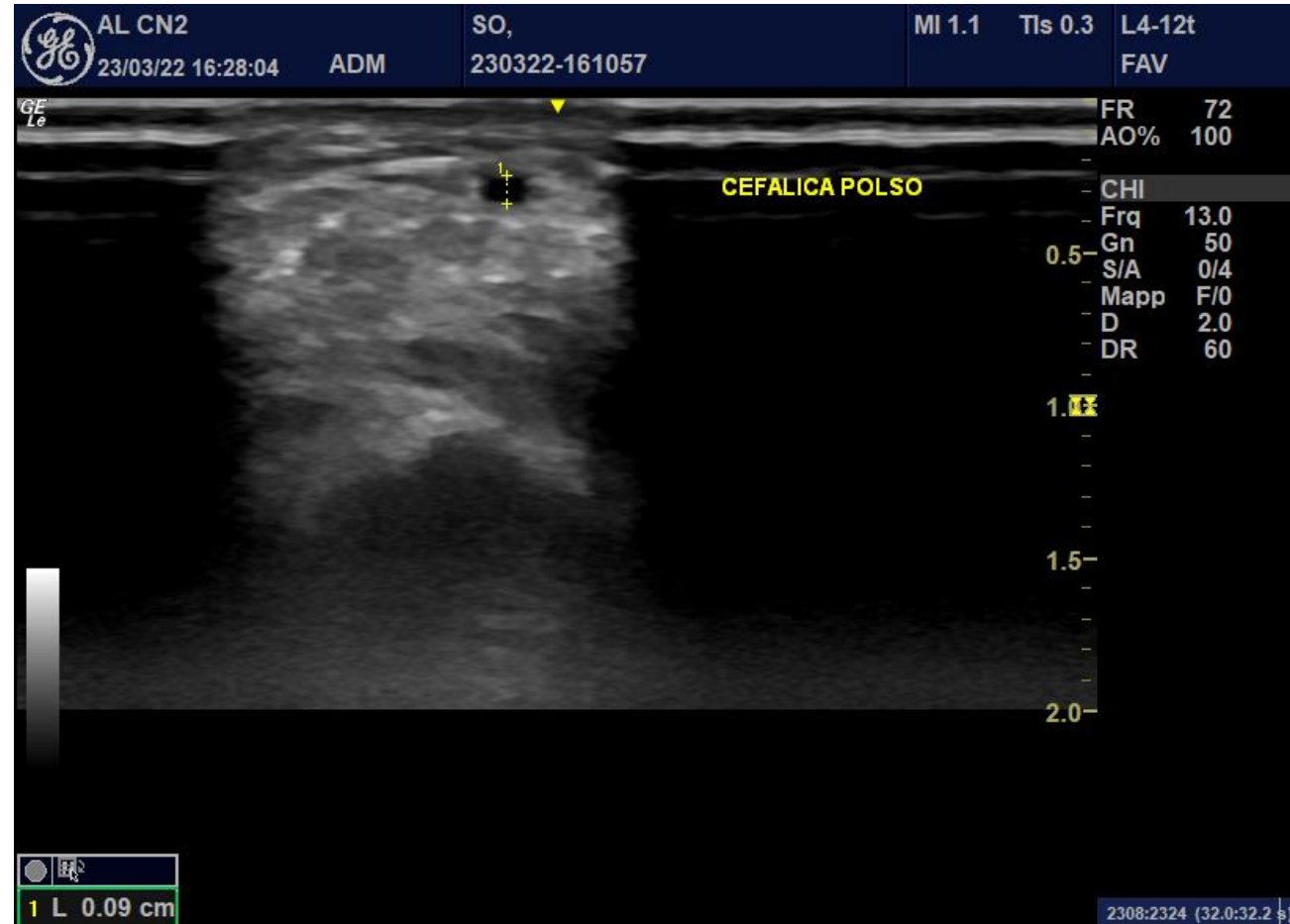
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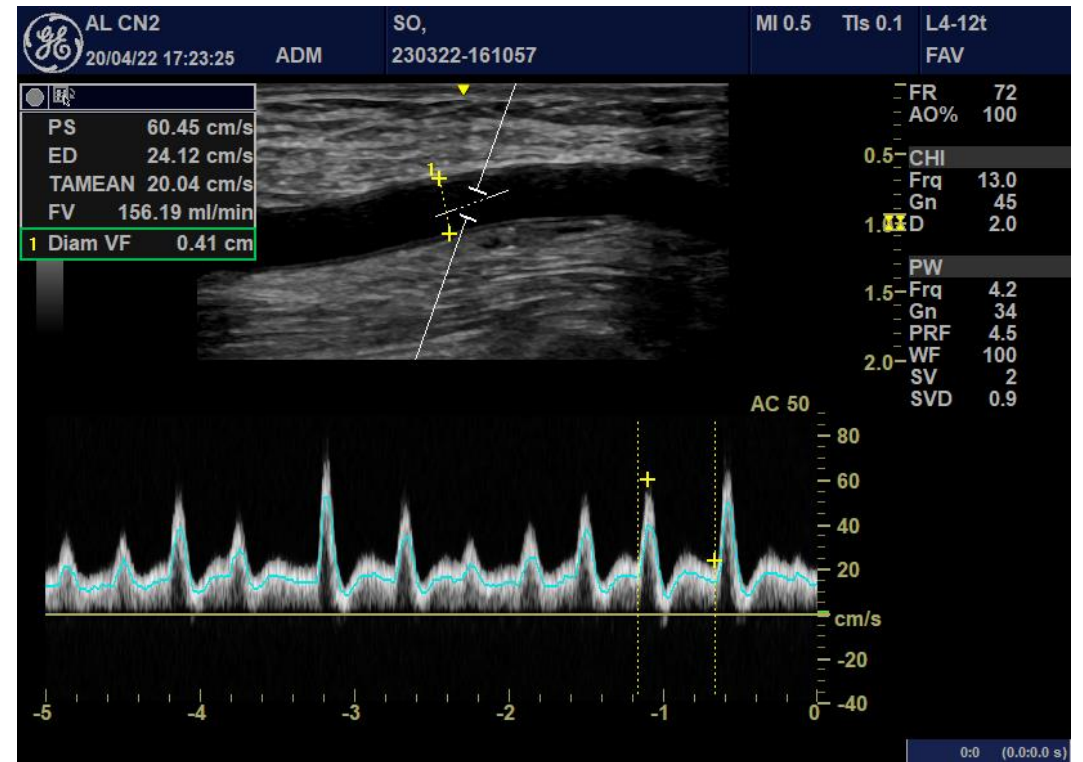
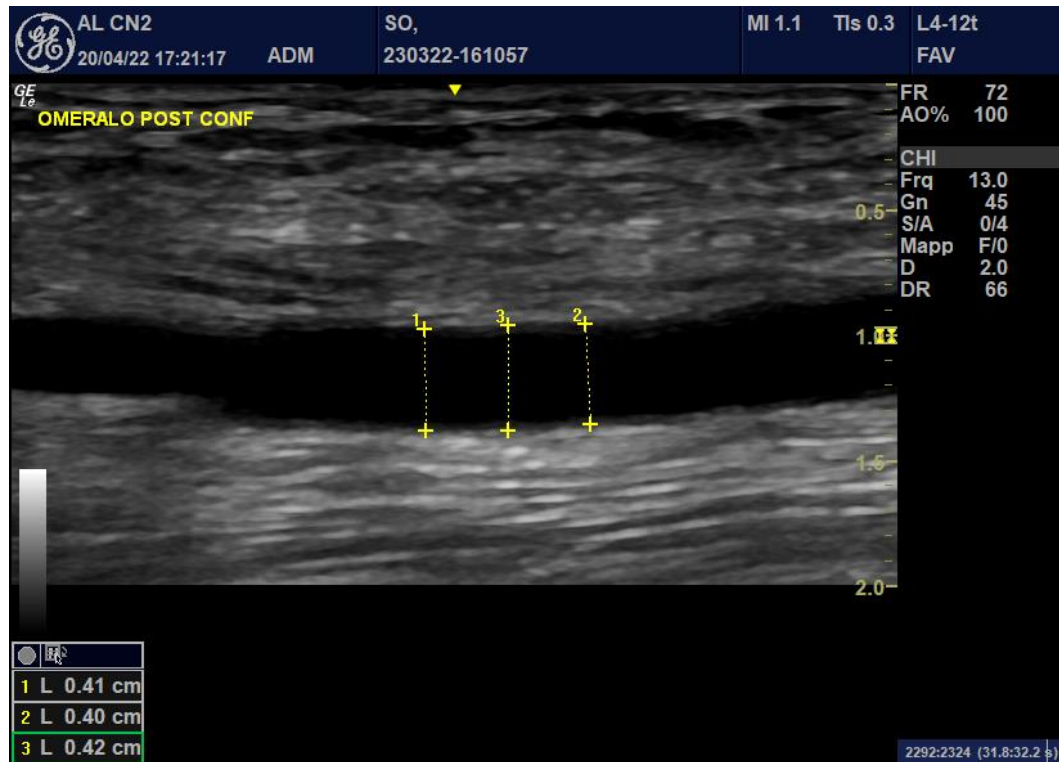
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