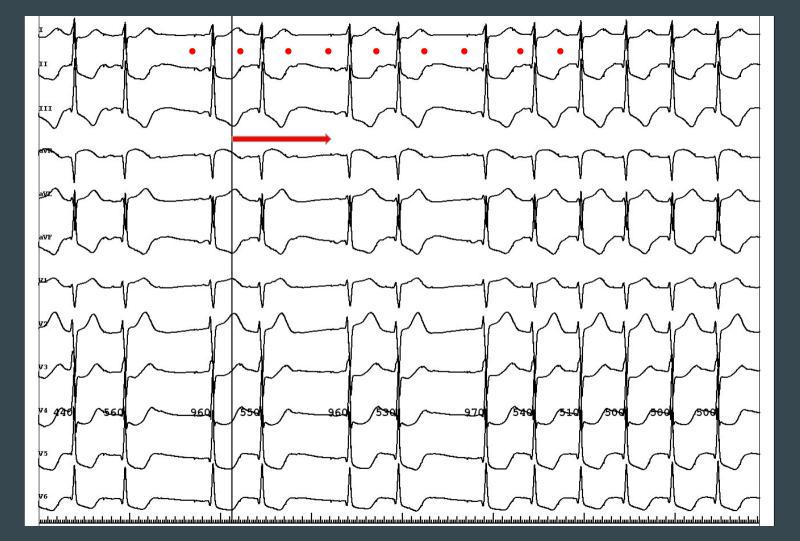
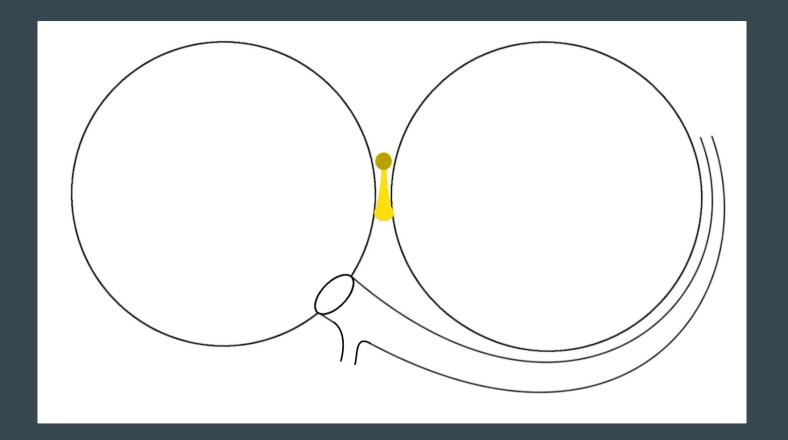
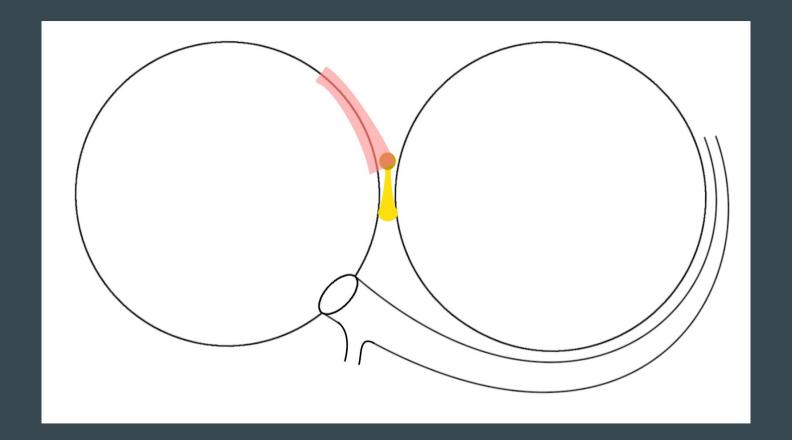
Paraseptal pathway ablation

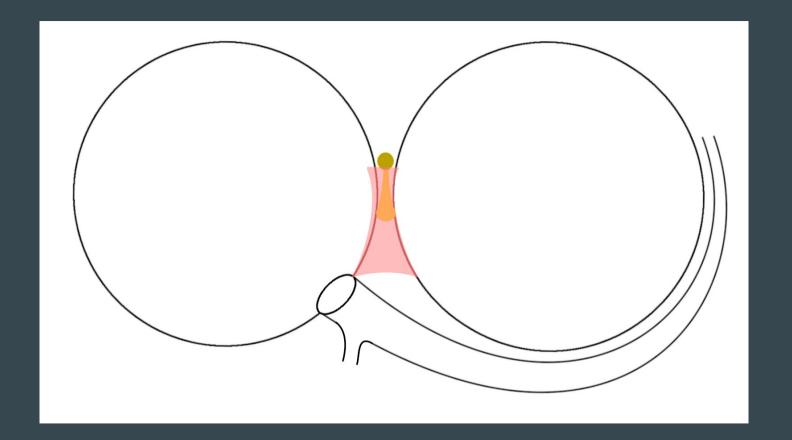
Raja Selvaraj Professor of Cardiology JIPMER, Puducherry

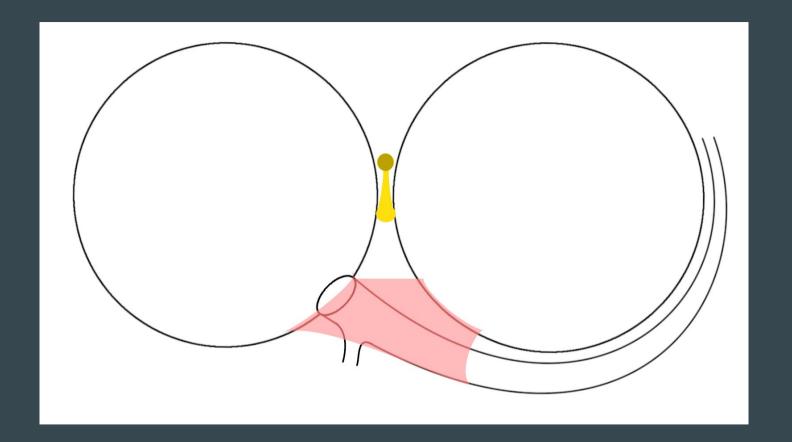


Anatomy and Terminology





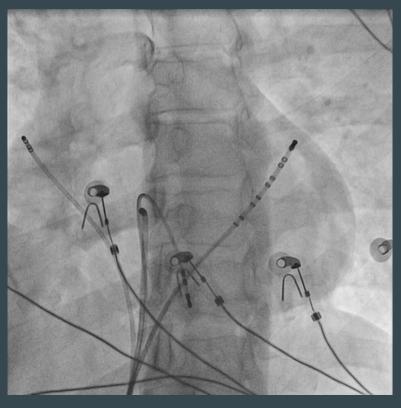




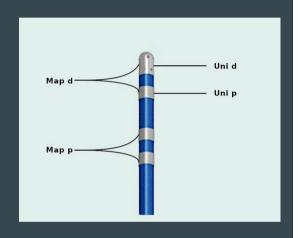
Mapping set up

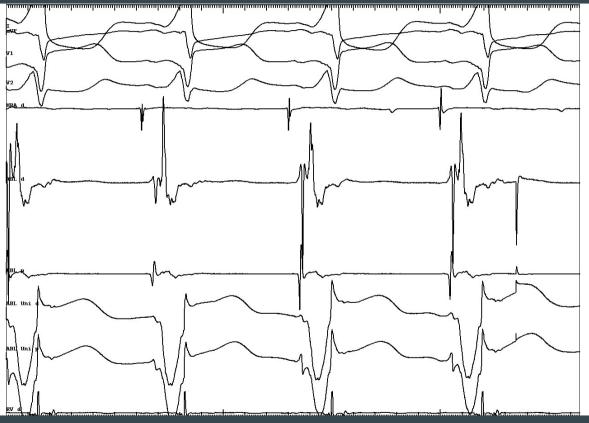
Four catheters - Don't skip the RA



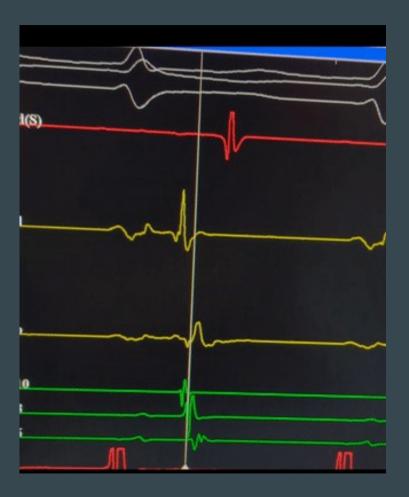


Four signals



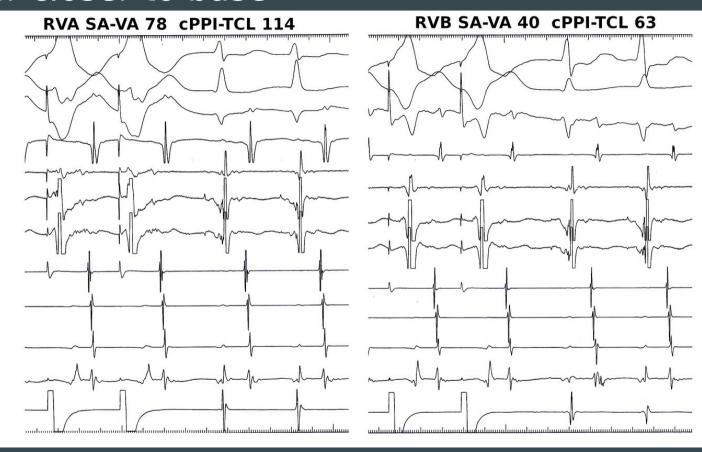


Triggered mode



RV catheter closer to base



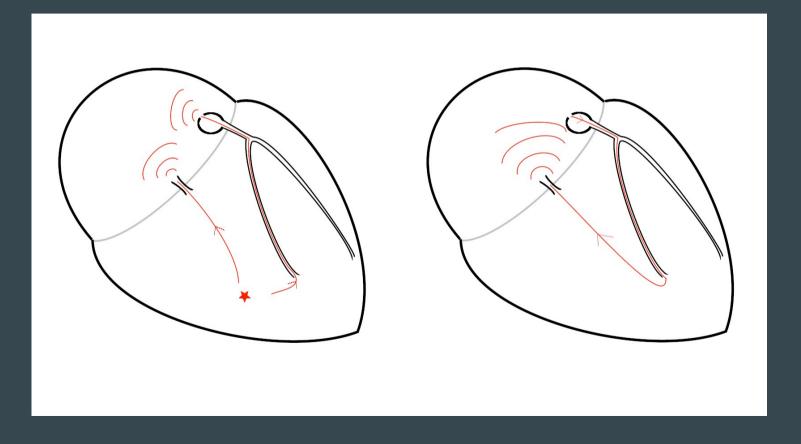


AP potential more important than early signal

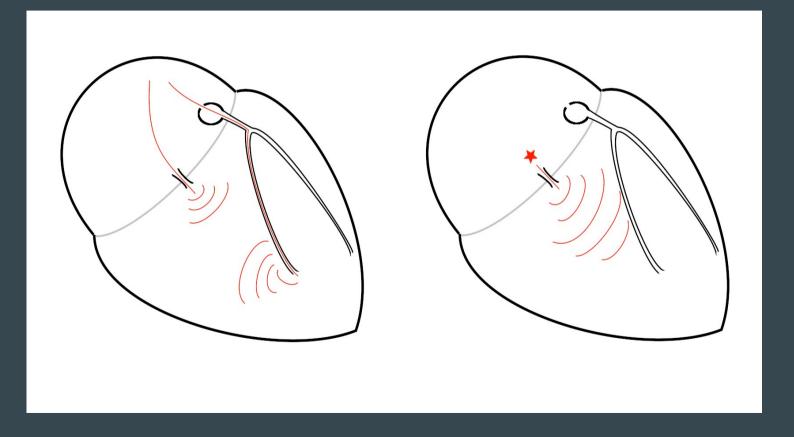


Mapping - Which insertion?, which rhythm?

Atrial insertion

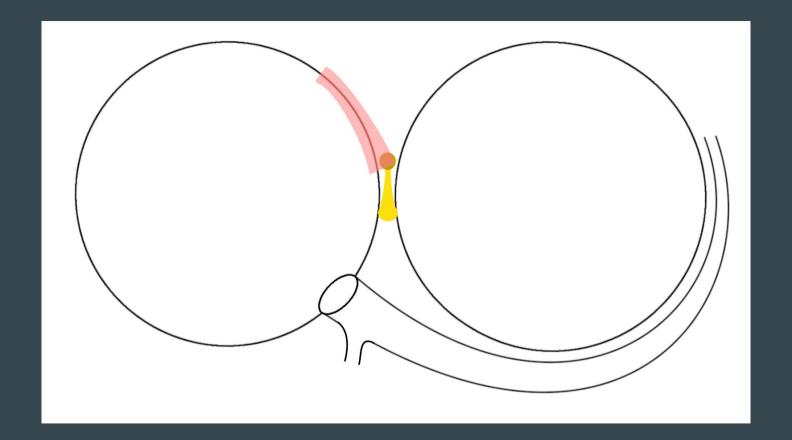


Ventricular insertion

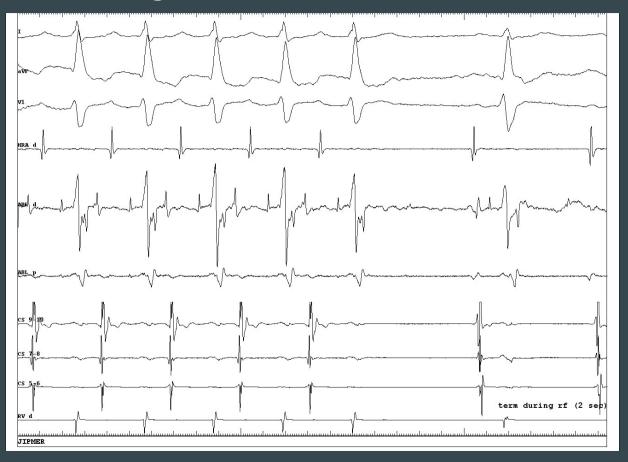


General rules

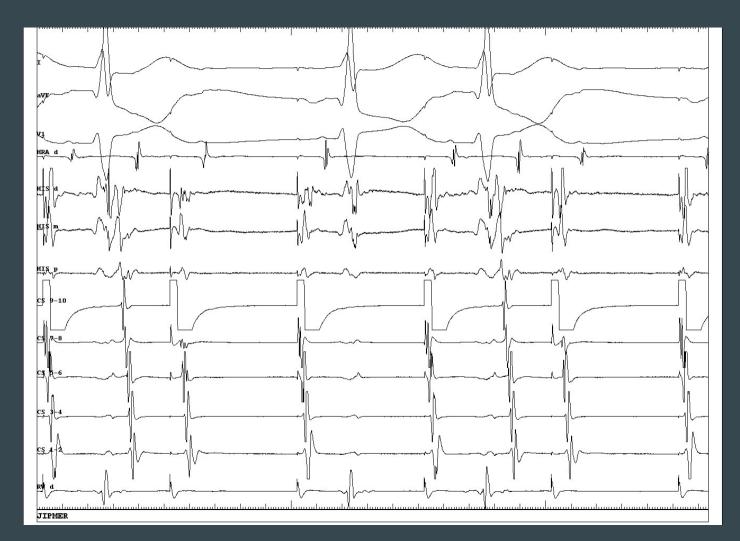
- Risk of AV block Map and ablate during ORT
- Consider also mapping the ventricular insertion (maybe in safer location)
- Intermediate preexcitation (sinus) better than full preexcitation (A pace) if risk of AV block
- Maximum preexcitation if low risk of AV block and to avoid fusion
- ORT for atrial insertion to avoid fusion in atrium



Ablation during ORT - Parahisian AP



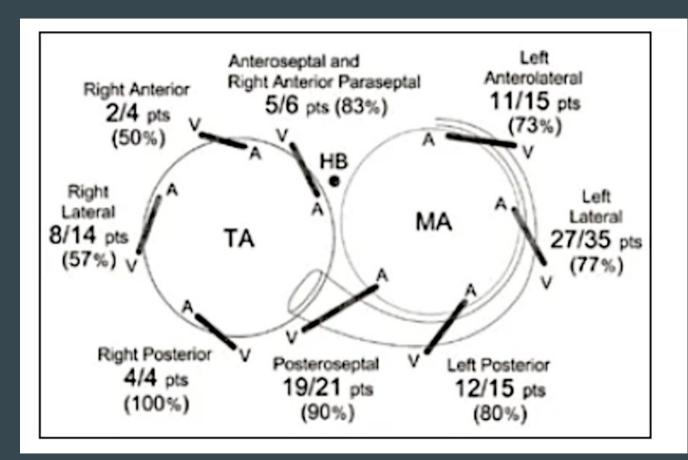
Anteroseptal AP mapped during echo beats



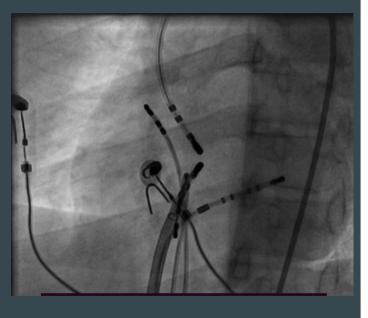
Ablation



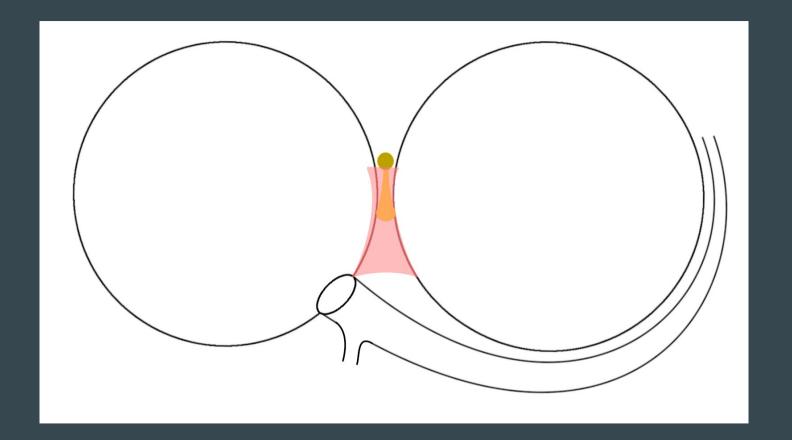
"Anteroseptal pathway" can be ablated in anterior / anterolateral location (V insertion)



Ablation from NCC





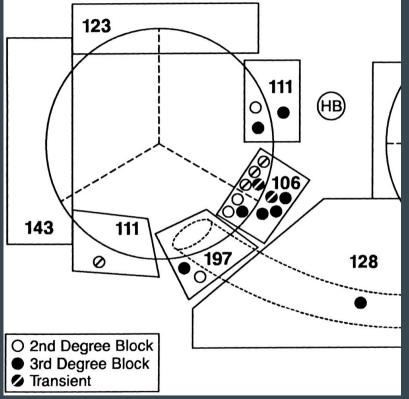


AV block in pediatric AP ablation

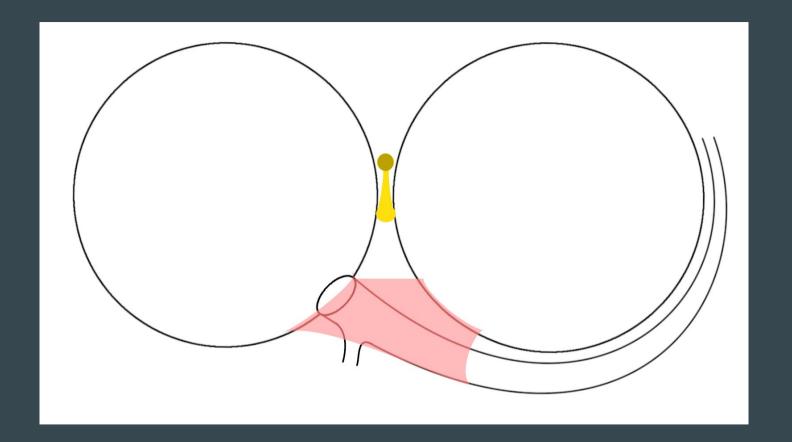
Anteroseptal - 2.7%

Midseptal - 10.4%

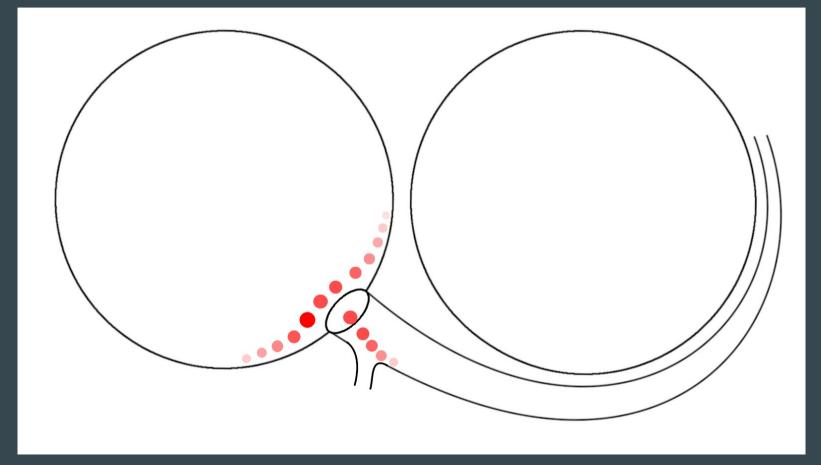
Posteroseptal - 1%



Schaffer MS, Silka MJ, Ross BA, Kugler JD. Inadvertent atrioventricular block during radiofrequency catheter ablation. Results of the Pediatric Radiofrequency Ablation Registry. Pediatric Electrophysiology Society. Circulation. 1996 Dec 15;94(12):3214-20.



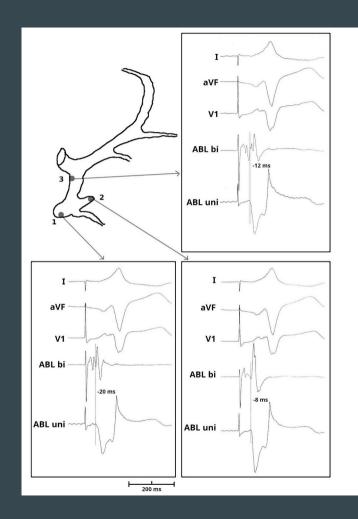
Systematic mapping

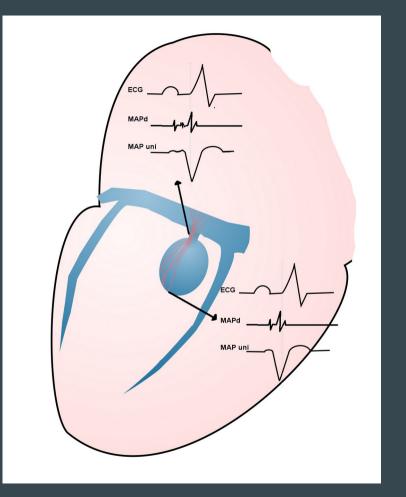


Suspect CS pathway

- Previous failed ablation
- Atrial fibrillation
- Steep negative delta in lead II

Selvaraj RJ, Sarin K, Singh VR, Satheesh S, Pillai AA, Kumar M, Balachander J. Radiofrequency ablation of posteroseptal accessory pathways associated with coronary sinus diverticula. J Interv Card Electrophysiol. 2016 Nov;47(2):253-259.





Summary

- Paraseptal pathways can be challenging to ablate
- Avoiding AV block is a key concern
- Precise mapping is important
- Understanding of anatomy and alternate vantage points important