9

Experience of three dimensional (3D) electro-anatomic mapping and ablation in patients at North Okkalapa General Hospital

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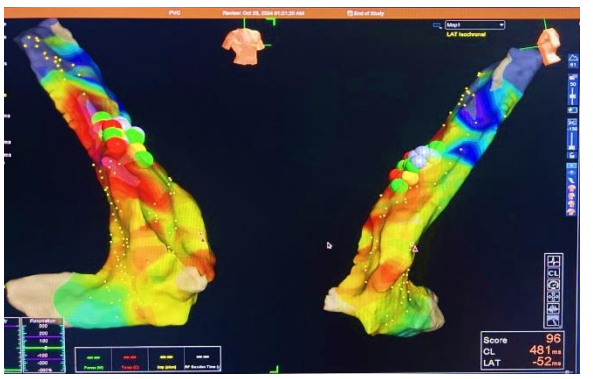
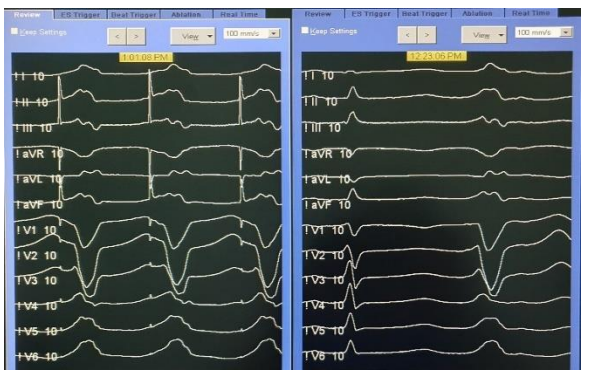
Introduction : After installation of 3 D mapping system in June 2018, a step forward to extensive mapping and ablation of difficult arrhythmia cases were enabled. The overall success rate was studied to recollect our experience.

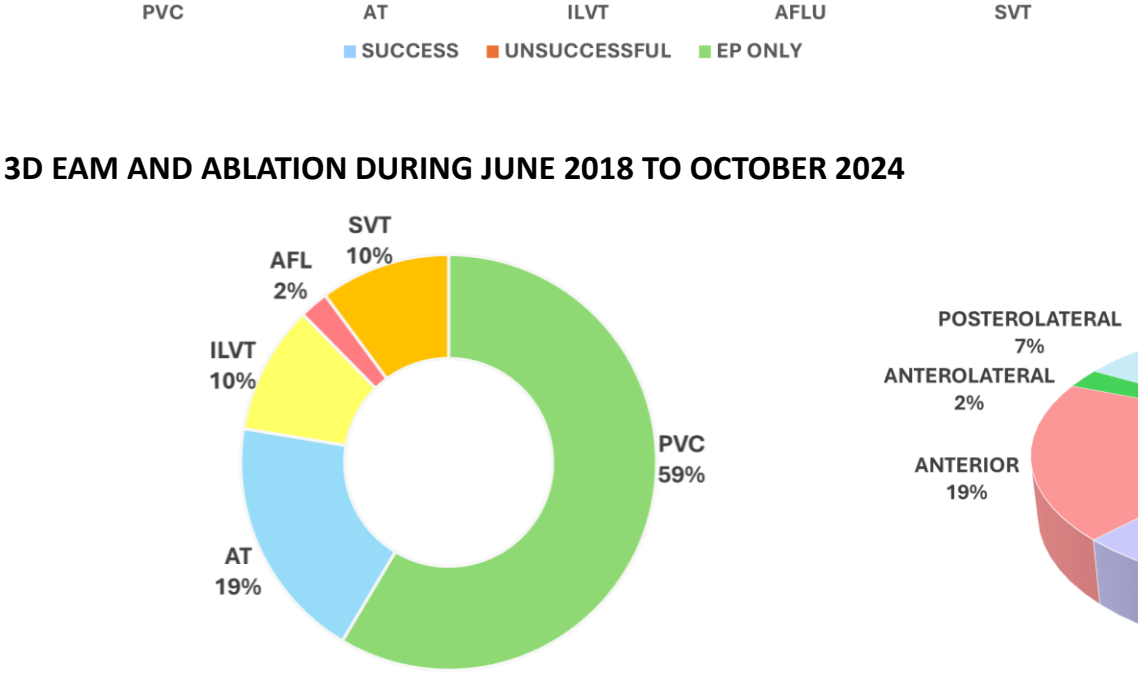
Methods : A total of 89 patients with arrhythmia cases with PVC , AT , AFL and ILVT who underwent 3 D EAM mapping system and RFA using Ensite Precision between June 2018 and October 2024 were retrospectively studied through case records.

Findings

Total number of patients - 89 patients (Female 63.4 %)
More prevalent age group - 41 to 60 years (44.9 %)
The youngest - 16 years , the oldest – 78 years
RVOT PVC - 48 patients (92.3 %)
Uncommon origin of PVC - 4 patients (7.7 %)
Overall acute success rate of ablation - RVOT PVC (93%), AT (35%)
AT-17 patients (19%)
ILVT- 9 patients (10%), AFL- 2 patients (2.24%)
SVT- 9 patients(10 %)

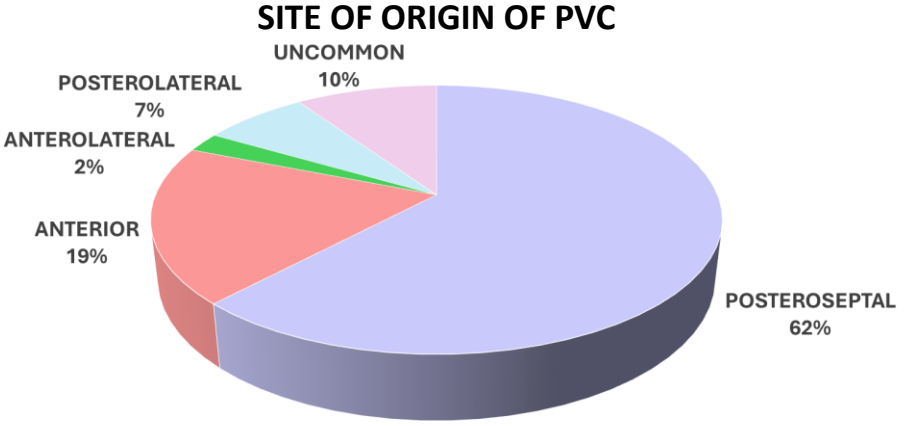






3D EAM AND ABLATION DURING JUNE 2018 TO OCTOBER 2024

SITE OF ORIGIN OF PVC



Conclusion : The success rate by using electroanatomical mapping system was comparable with other experienced centres. High success rate may be related to selectively choosing RVOT PVC cases for procedure. Extensive mapping and ablation of complex arrhythmia will be the next moving step.