A pre-excited ECG pattern: what lies beneath

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48 yr old male

- Recurrent palpitations associated with pre-syncope
- No PMH of significance
- Normal echo
- ECG
Short HV: anterograde AP
Atrial activation
Atrial activation
Atrial activation advanced: tachycardia reset from V
V activated by AP, A advanced, rate affected by AP conduction: AP anterograde limb of BCT
tachycardia reset from V when His refractory: retrograde AP
Atrial activation consistent
Change from oAVRT to duodromic AVRT

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1 2 3
H
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334ms 334ms 286ms 334ms 306ms 306ms 306ms
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Slowly conducting, decremental pathway
Ablation of R septal pathway
Ablation of R septal pathway
Ablation of R septal pathway
Ablation of R septal pathway
Ablation of R septal pathway
Pre-excitation still visible following ablation of septal pathway
Ablation of R posterior pathway

- Mapped TA and earliest signal found posteriorly
- Ablation to site further narrowing of QRS
Mapping and Ablation of R atrio-fasicular pathway
Mapping and Ablation of R atrio-fasicular pathway: Mahaim
Ablation of R atrio-fasicular pathway
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Ablation of R atrio-fasicular pathway
Outcome

<table>
<thead>
<tr>
<th>ECG at Baseline</th>
<th>ECG following ablation at Site 1</th>
<th>ECG following ablation at Site 2</th>
<th>ECG following ablation at Site 3</th>
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<tbody>
<tr>
<td>I</td>
<td><img src="Image" alt="ECG Tracing" /></td>
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<td>V1</td>
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Mahaim pathways Represent 2-3% of AP-mediated clinically relevant arrhythmias
Onset of tachycardia