AV Nodal Reentrant Tachycardia in Patients with Twin AV Nodes

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AV Nodal Reentrant Tachycardia In Patients With Twin AV Nodes

Christopher Mathis, MD, Svjetlana Tisma-Dupanovich, MD, FHRS, Lindsey Malloy-Walton, DO, John Papagiannis, MD, FHRS

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Background

- Twin AV nodes may be present in complex CHD, especially patients with heterotaxy.
- Clinicians should be aware of the possibility of multiple mechanisms of SVT in these patients.
- Patients with atrial isomerism should be carefully evaluated for twin AV nodes and considered for an EP study at the time of pre-Fontan catheterization.

Methods

<table>
<thead>
<tr>
<th>Patient #1</th>
<th>Patient #2</th>
<th>Patient #3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age (years)</td>
<td>3</td>
<td>8</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>14</td>
<td>18</td>
</tr>
<tr>
<td>GHD Diagnosis</td>
<td>Right atrial isomerism, (I,D,D) CAVC, DORV, s/p bilateral, bidirectional Glenn</td>
<td>Dextrocardia, right atrial isomerism, (I,L,L) CAVC, DORV, s/p extracardiac Fontan</td>
</tr>
<tr>
<td>Indication for EP Study</td>
<td>Anatomy, pre-Fontan cath</td>
<td>Palpitations, anatomy, pre-Fontan cath</td>
</tr>
<tr>
<td>Previous Study?</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Findings

- Twin AV nodes may be present in complex CHD, especially patients with heterotaxy.
- Clinicians should be aware of the possibility of multiple mechanisms of SVT in these patients.
- Patients with atrial isomerism should be carefully evaluated for twin AV nodes and considered for an EP study at the time of pre-Fontan catheterization.

Conclusions

- Twin AV nodes may be present in complex CHD, especially patients with heterotaxy.
- Clinicians should be aware of the possibility of multiple mechanisms of SVT in these patients.
- Patients with atrial isomerism should be carefully evaluated for twin AV nodes and considered for an EP study at the time of pre-Fontan catheterization.

References