Completely Zero Fluoroscopy guided ablation in WPW syndrome of pregnancy

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C/C  Palpitation (5 days ago)

P/H  No known Hx of HTN, DM, Pul TB, or hepatitis

C/sec at 2017.7

S/H  Smoking : none  Alcohol : none

P/I  The pregnancy 12 weeks woman had come to local emergency department complaining of palpitation and chest discomfort. Local hospital electrocardiography demonstrated abnormal findings. Therefore, she was transferred to our center for further evaluation.

V/S  

<table>
<thead>
<tr>
<th>BP</th>
<th>120 / 80 mmHg</th>
<th>BT</th>
<th>37.0 °C</th>
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<tbody>
<tr>
<td>PR</td>
<td>166 /min</td>
<td>RR</td>
<td>24 /min</td>
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* 과거력 특이 사항 없고, 가족력상 아버지(DM 및 연관된 심장 질환), 할머니(고혈압성 심질환)의 심질환력 있으나 부정맥 가족력은 없다고 하십니다.
ECG at Local Hospital
At ER

ER Doctor’s decision & order:

: D/C cardioversion + IV heparin
ECG after D/C cardioversion
Treatment Plan

1. Continue Medical Tx: Beta-blocker

2. RFCA for WPW syndrome with zero-fluoroscopy

: Short ERP of AP

The Patient didn’t want to take a medicine for a long time
The Heart Center of Chonnam National University Hospital

Guided by Echo & ICE
Transthoracic Echo in procedure
Transthoracic Echo in procedure
CarotoSound mapping
EGM: Mapping

90ms  98ms  76ms  68ms

12 o’clock  3 o’clock  6 o’clock  9 o’clock
EGM: Mapping for short A-V

64 ms
45 ms: 8 o'clock
70 ms
72 ms
VA interval during V-pacing

66 ms
VA interval during V-pacing

90 ms
VA interval during V-pacing

84 ms
Inserting Duodeca-catheter
Sinus rhythm
Induction: Earliest at LRA7,8 pair

ID: 23043635
Recorded on March 06, 2019 at 19:58:40.369

300ms
Induction: Wide QRS, LBBB

ID: 23043635

Recorded on March 06, 2019 at 19:43:05.710

300ms
Mapping with Duodeca-catheter

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>6 o’clock</td>
<td>100 ms</td>
</tr>
<tr>
<td>9 o’clock</td>
<td>82 ms</td>
</tr>
<tr>
<td>8 o’clock</td>
<td>38 ms</td>
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</tbody>
</table>
Ablation at AV fusion site
Catheter position & ablation
Induction: Earliest at HRA1,2 pair
Ablation
Delta was gone!!
Fluoroscopy time : 0 min, 0 sec
Delta has been gone!
How was the baby?
Thank you for Attention!