The Latest Technique in Retrograde Approach

Toyohashi Heart Center
Yasushi Asakura M.D.
The Retrograde Approach

Why?
Failed Antegrade Wiring
Increased Chance
Side Branch
Driving Pressure
Exit Lumen

Toyohashi Heart Center
Landmarks
Kissing Wire Technique
Why Retrograde?

1. Increased Chance
2. Side Branch
3. Tissue Character
4. Exit Lumen
5. Landmarks
6. Device Delivery
Why Retrograde?

1. Increased Chance
2. Side Branch
3. Tissue Character
4. Exit Lumen
5. Landmarks
6. Device Delivery
7. Subintimal Tracking
ASAHI Corsair was originally developed as a septal channel dilator, to ease retrograde approaches for CTO-PCI. This is a unique device that can be used both as a microcatheter and as a support catheter.
Standardized Retrograde Technique

1. Channel Crossing
Standardized Retrograde Technique

1. Channel Crossing
2. Retrograde Wiring
Case RCA

Toyohashi Heart Center
Retrograde Approach
Retrograde Wire ➔ Guide Cathe ➔ Trapping Technique

Toyohashi Heart Center
Trapping Technique
↓
Corsair →
Guide Cathe
Externalize Using 300cm Wire
Balloon
Stent
Stent
Final
Acute Results in CART Registry

- Success recanalization: 96%
- Failed: 4%

<table>
<thead>
<tr>
<th>Attempted Technique</th>
<th>Number (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retrograde wire crossing</td>
<td>38 (32%)</td>
</tr>
<tr>
<td>Kissing wire</td>
<td>6 (5%)</td>
</tr>
<tr>
<td>CART</td>
<td>66 (55%)</td>
</tr>
<tr>
<td>Reverse CART</td>
<td>3 (3%)</td>
</tr>
<tr>
<td>Antegrade approach</td>
<td>2 (2%)</td>
</tr>
</tbody>
</table>

Toyohashi Heart Center
Standardized Retrograde Technique

1. Channel Crossing
2. Retrograde Wiring
3. Kissing Wire Technique
Major Limitation of Kissing Wire Technique

If antegrade and retrograde wires are in different layers, it is difficult to align both wires.
Acute Results in CART Registry

- Attempted technique:
  - Retrograde wire crossing: 38 (32%)
  - Kissing wire: 6 (5%)
  - CART: 66 (55%)
  - Reverse CART: 3 (3%)
  - Antegrade approach: 2 (2%)

- Success recanalization: 96%
- Failed: 4%
Standardized Retrograde Technique

1. Channel Crossing
2. Retrograde Wiring
3. Kissing Wire Technique
4. IVUS Guided Wiring
5. Subintimal Tracking
Case
RCA
LCA
RAO
Caudal
LCA
RAO
Cranial
Antegrade Wiring
Retrograde Wiring
Retrograde Wiring with Corsair
Kissing Wire Technique
IVUS Guided Wiring
Reverse CART
Successful Wiring
Externalization
of
300 cm GW
Externalization of 300 cm GW
Balloon
Stenting

Toyohashi Heart Center
Summary

1. The retrograde approach is absolutely indispensable in CTO PCI.
2. In general, it is indicated to patients in whom the first PCI failed or CTO segment has complex morphology.
3. Corsair that is a channel dilator would make CTO PCI easier and safer.
4. Externalization using 300cm wire after IVUS guided reverse CART is standardized procedure in Corsair era.