#### **Right Guide Wire for Collateral and CTO Lesion Crossing**

Kenya Nasu, MD, FACC Toyohashi Heart Center, Japan

#### Most of collateral channel can be negotiated by SUOH 03

### **SION** with microcatheter to select septal or collateral source of epicardial channel

#### **Change to SUOH03**





Evolutionary coronary guide wire from ASAHI INTECC Softest available tip load at 0.3 gf\* Our new soft as silk guide wire provides new opportunities to treat complex PCI cases

#### However, every channel is not selectable...Why?...

**Representative difficult collateral channels for negotiation are** 

- > Many small bifurcations in septal channel
- Invisible connection in septal channel
- Tortuous connection in epicardial channel

For reduction of channel negotiation failure, identification of channel morphology is important.

#### What is the best wire for channel negotiation?

There is no answer in real practice.

- **SUOH03** can cover most of the situations.
- > However, SUOH03 is not good at selection of bifurcation
- SION is better to select bifurcation
- XT-R can go in small channel but make perforation easily.

#### **How to Negotiate Collateral Channel?**

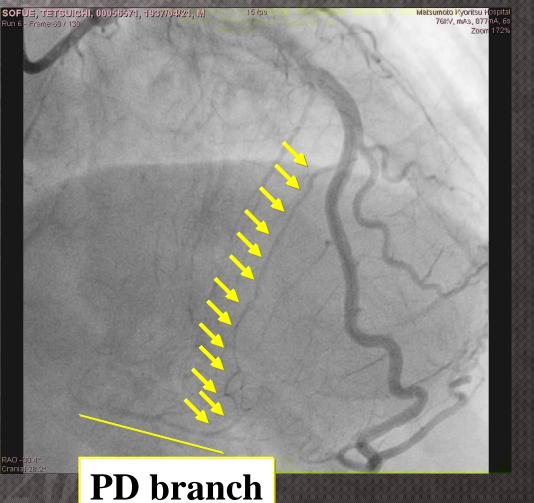
Before wire selection, understanding of channel morphology is very important to choose appropriate GW and make the best tip curve of GW.

For understanding of channel morphology, tip injection from multi-projection is mandatory.

#### **Routine projections for septal channel negotiation RAO CAU and RAO CRA**

SOFUE, TETSUICHI, 00055571, 1937/04/21, M Run 6 - Frame 1 / 199 vlatsumoto Kyoritsu Hospit 76KV, mAs, 877mA, 6 Zoom 172



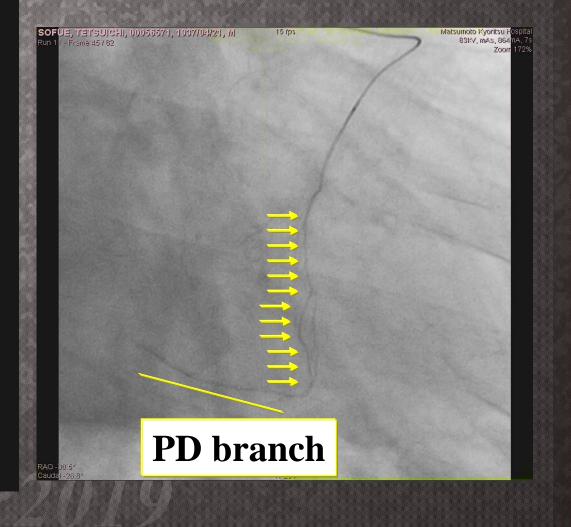


#### **Routine projections for septal channel negotiation RAO CAU and RAO CRA**

Matsumoto Kyoritsu

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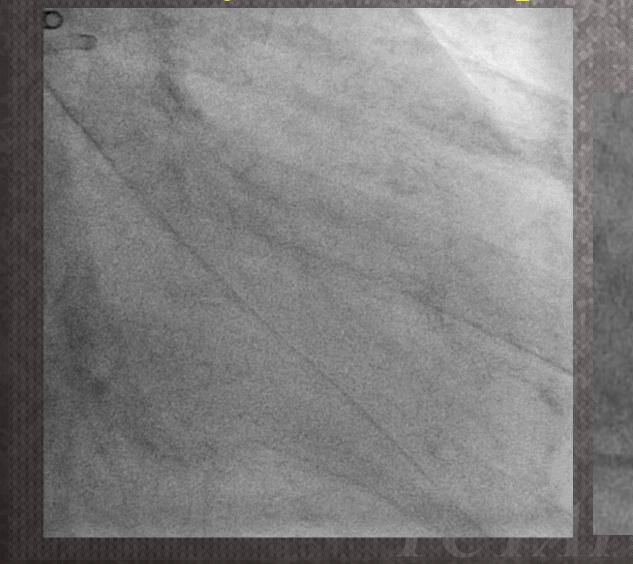


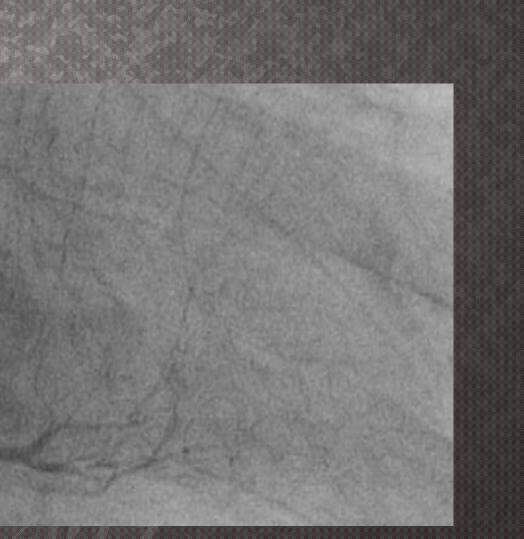


**RAO CRA** 

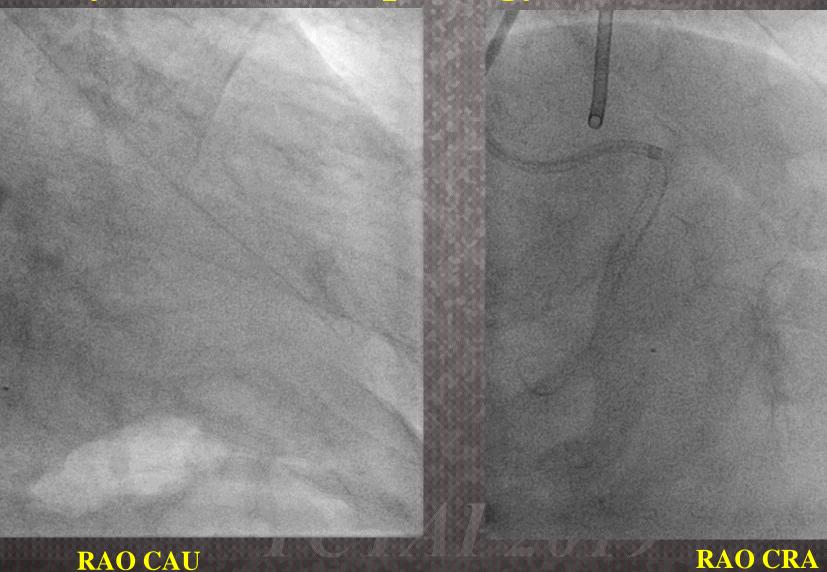
L 107 11 284

## Sometime, we need the other projection to identify channel morphology





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**Bifurcation is over rapping** 

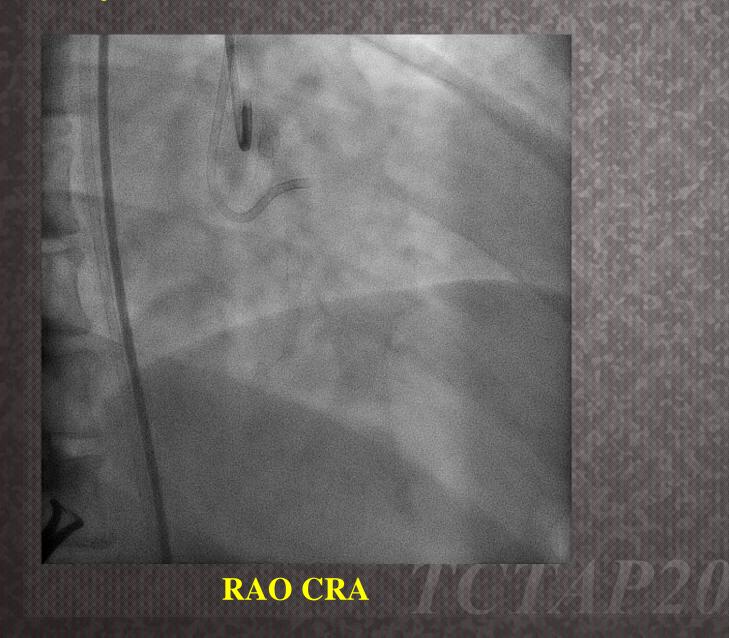


RAO30 CAU30

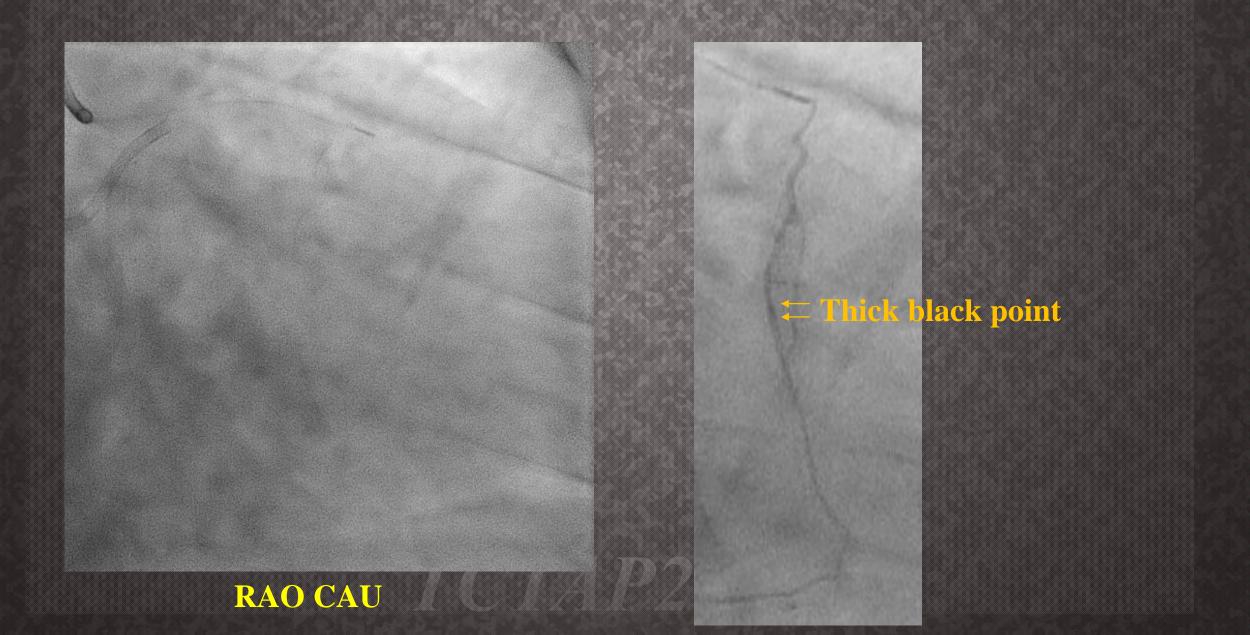
#### If you see the thick black contrast in collateral channel...



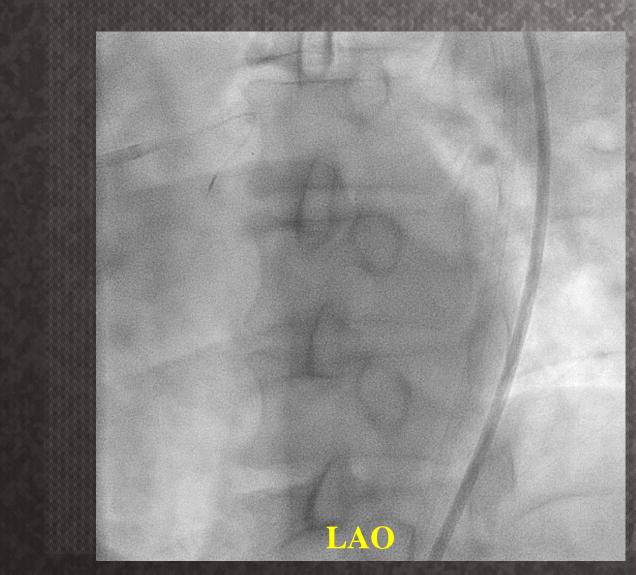
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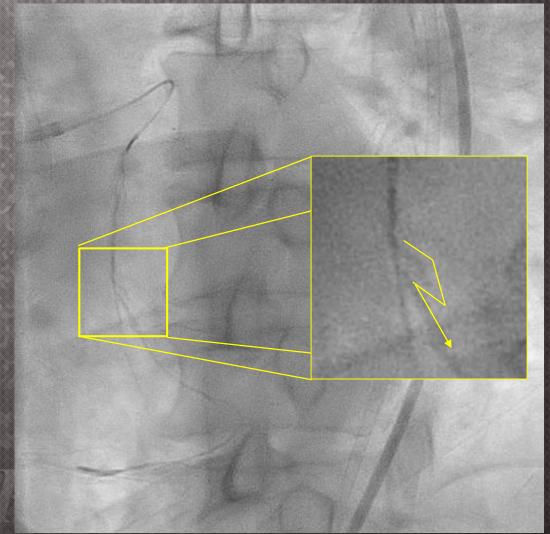


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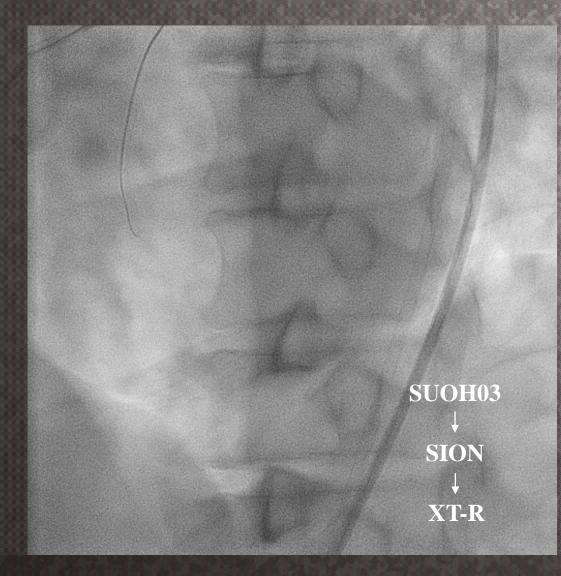


#### If you see the thick black contrast in collateral channel... Channel may has a bending point.



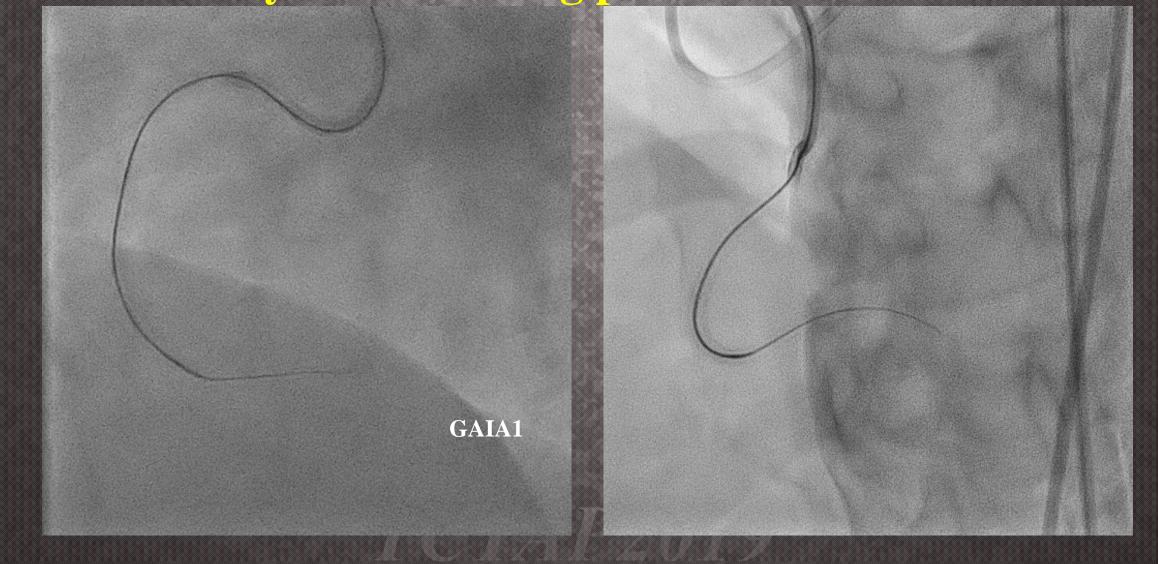


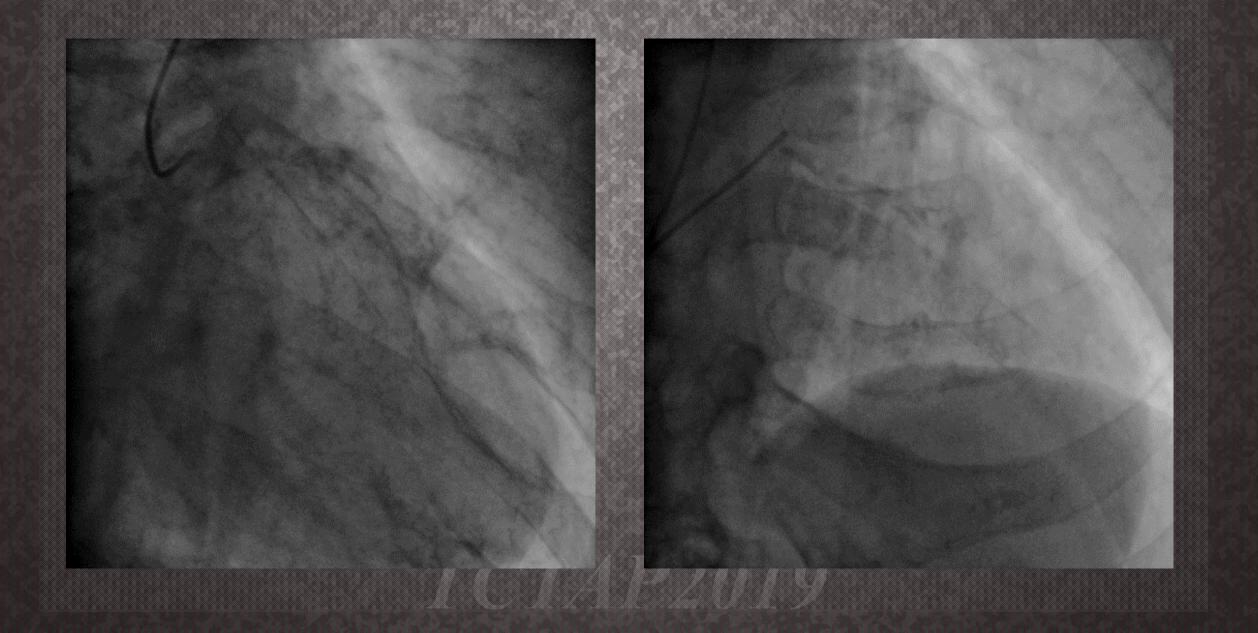
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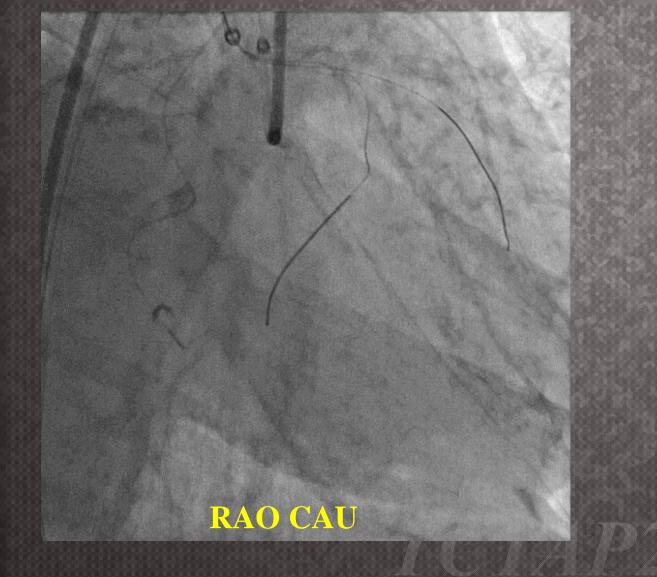
 The sign of difficulty for negotiation
 Checking channel from multiprojections is recommended

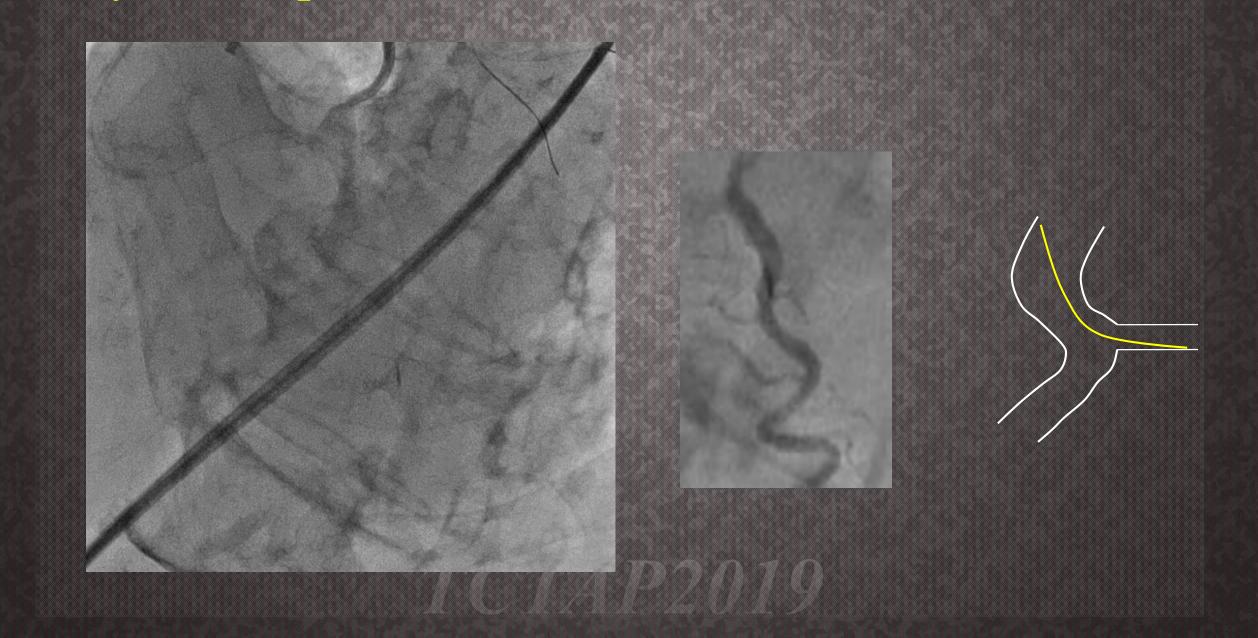
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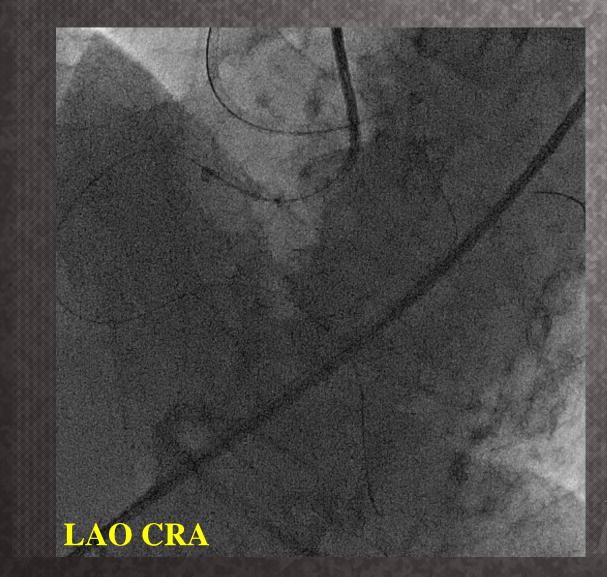












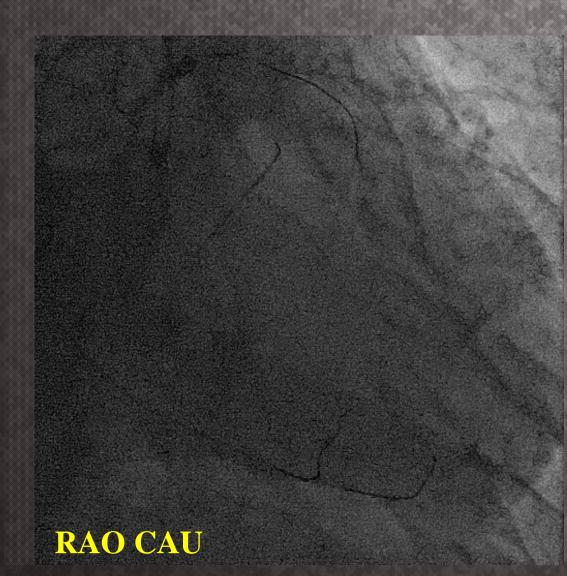
Stretching the PD by 1<sup>st</sup> wire
 Dual lumen catheter for septal selection

Stretching the PD by 1<sup>st</sup> wire
Dual lumen catheter for septal selection





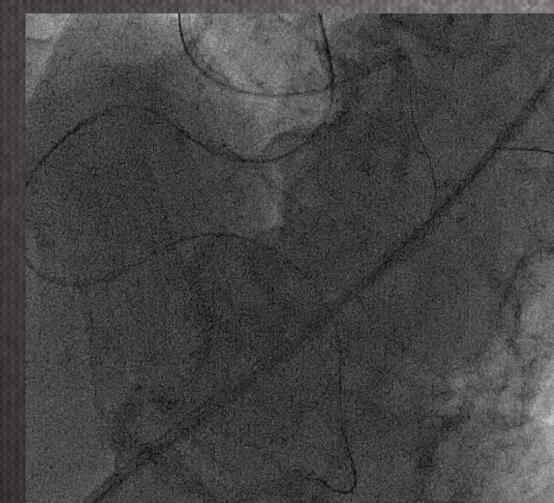
Stretching the PD by 1<sup>st</sup> wire
 Dual lumen catheter for septal selection
 Change to microcatheter



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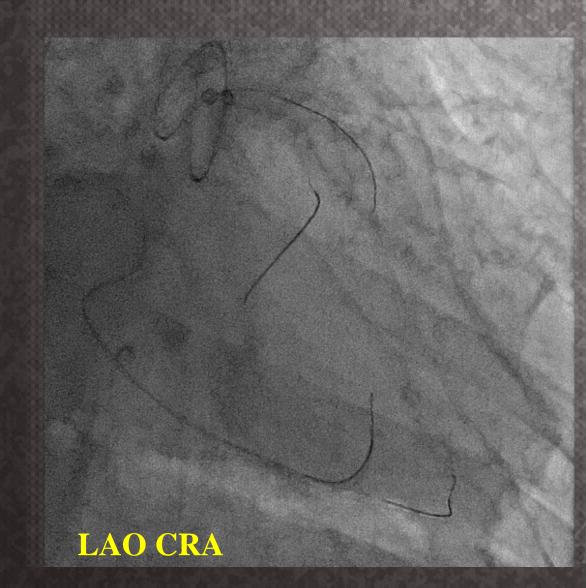


- Stretching the PD by 1<sup>st</sup> wire
   Dual lumen catheter for septal selection
   Change to microcatheter
- Tip injection to evaluate channel morphology

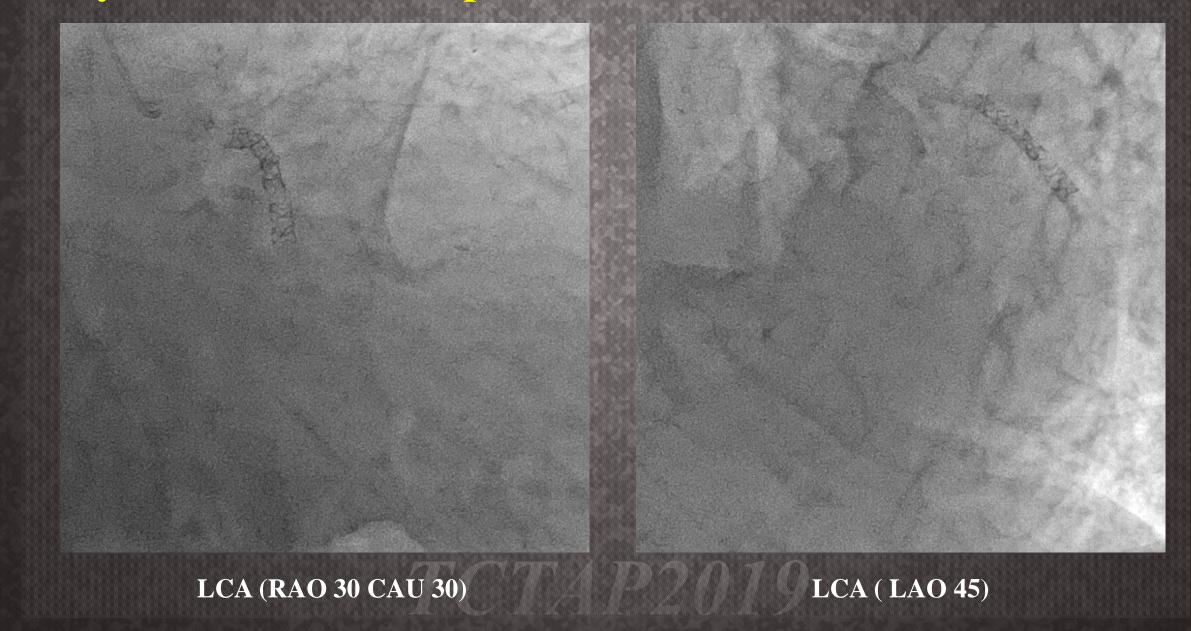


- **Stretching the PD by 1<sup>st</sup> wire**
- Dual lumen catheter for septal selection
   Change to microcatheter
- Tip injection to evaluate channel morphology
- > SION for small bifurcation





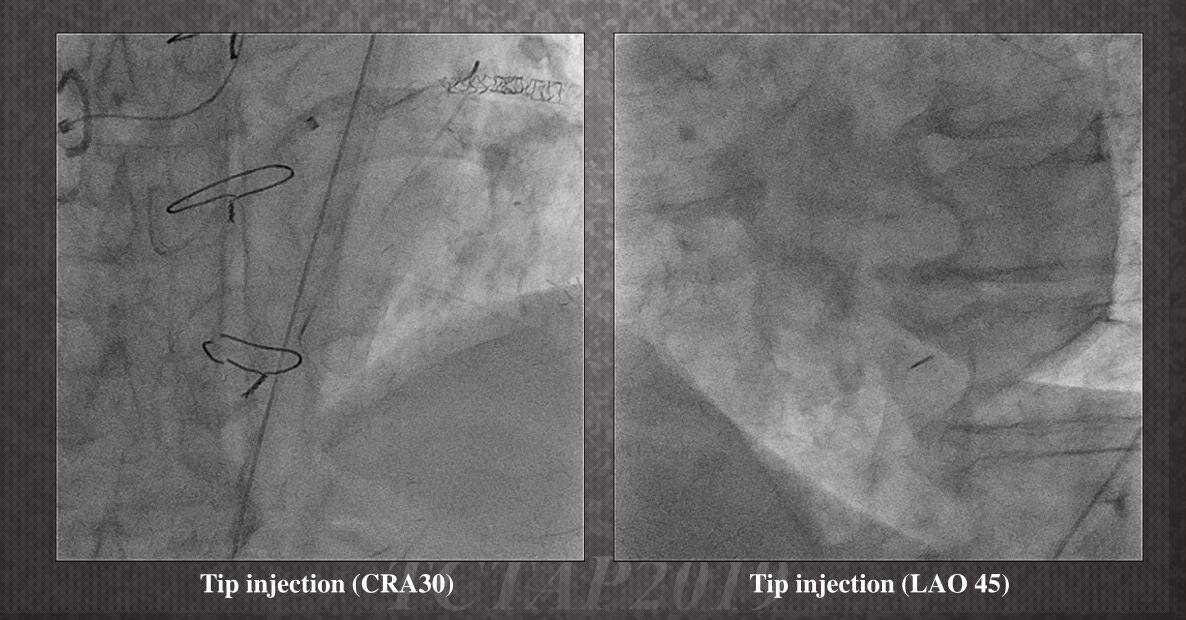
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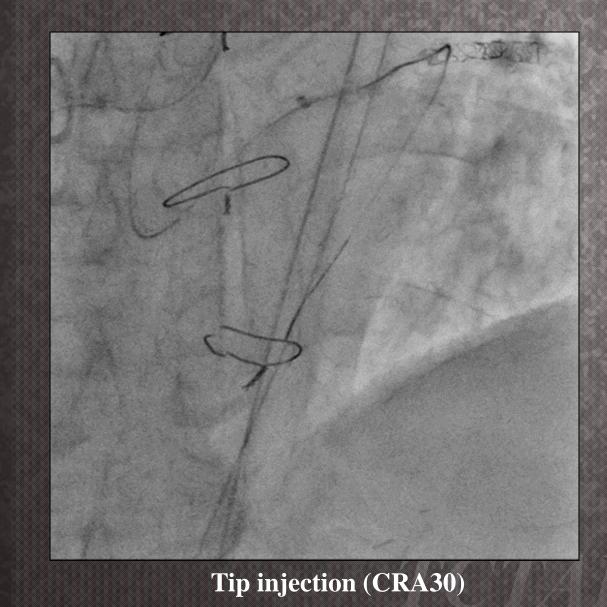


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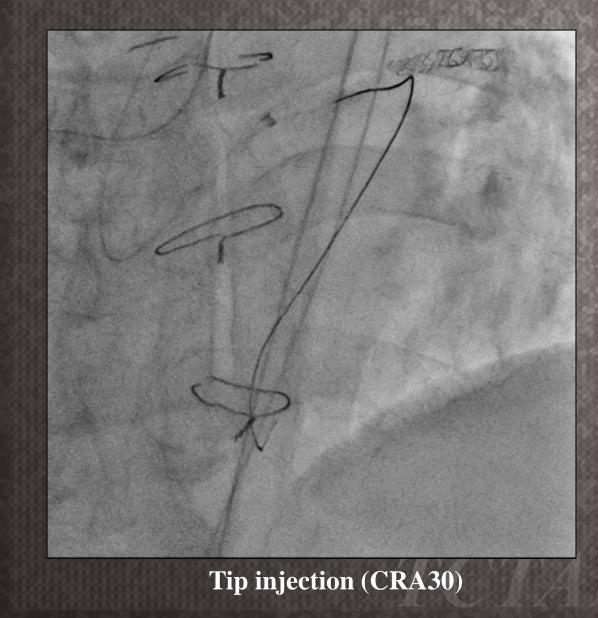


#### > SUOH03 not advanced

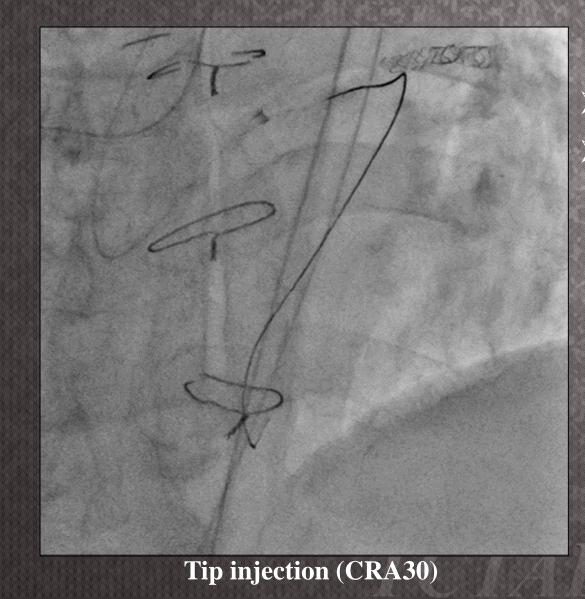


Tip injection (CRA30)

SUOH03 not advanced
XT-R with a very small knuckle



### SUOH03 not advanced XT-R with a very small knuckle



SUOH03 not advanced
XT-R with a very small knuckle

#### **Right guide wire for collateral channel**

- Before wire selection, understanding channel morphology is more important.
- For understanding channel morphology, tip injection from multi-projections. Make it a habit in your procedure!
- Initial choice of channel negotiation is SUOH03
- > SION is needed to select small bifurcation.
- > XT-R is needed for septal surfing and small channel
- > XT-R with a small knuckle is useful in some situations.

# CTO Club

#### [Dates] June 14 Fri. – 15 Sat., 2019

[Venue] WINC AICHI, Nagoya, Japan

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