Angioplasty Summit 2008, Seoul 2008/4/25 0710-0720 Room 2-3 Breakfast Meetings – Meet the Experts: Mini-Lectures & Cases

Imaging supported Complex PCI Heart CT and IVUS

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My schedule in TCT-Asia

Date₽	Time₽	Place₽	Session₽	Subject₽	Title₽	Role₽
April 23, 2008₽	3:30 PM ~ 4:30 PM₽	Coronary Arena↔	[Coronary Arena] Intensive Live Case Session 14	Live Case Transmission from Toyohashi Heart Center, Japan+ ²	-47	Discussant•
April 24, 2008₽	11:15 AM ~ 11:30 AM₽	Symposium Arena∂	Euro-Asia CTO Club∻	-₽	Cardiac CT Guided CTO Intervetntion↔	Lecturer₽
April 25, 2008₽	07:10 AM ~ 07:20 AM₽	Room 2-3₽	Breakfast Meetings - Meet the Experts: Mini-Lectures and Case Discussions↔	#10. Physiology & Imaging: IVUS, CT, OCT, and FFR	Imaging Supported Complex PCI: Heart CT and IVUS&	Lecturer₽

Advantage of Imaging for complex PCI

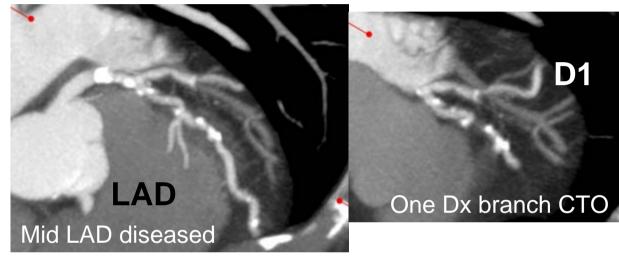
- With using imaging devices (Heart CT and IVUS), we can get detail and accurate information.
- Heart CT can show information of plaque, calcium, occluded vessel, etc.
 - prediction of risk or difficulty, success CTO-PCI
- IVUS can show real-time information about lesion situation including information of wire,
 **ssel damage, etc.

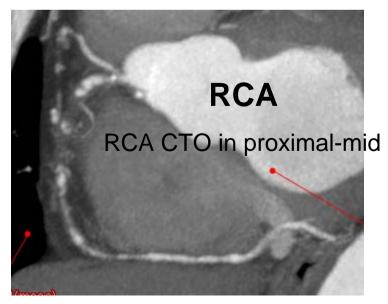
bail out strategy

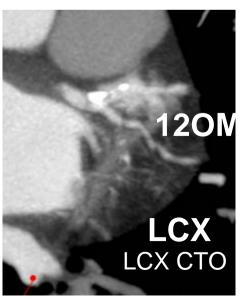
Combined Imaging Supported CTO-PCI

- 66yo Female
- ASO, CAD without AP
- HCT showed severe TVD
- Pt want to be treated by PCI, if possible
- Coronary:
 - RCA CTO, LCX CTO, LAD severe stenosis

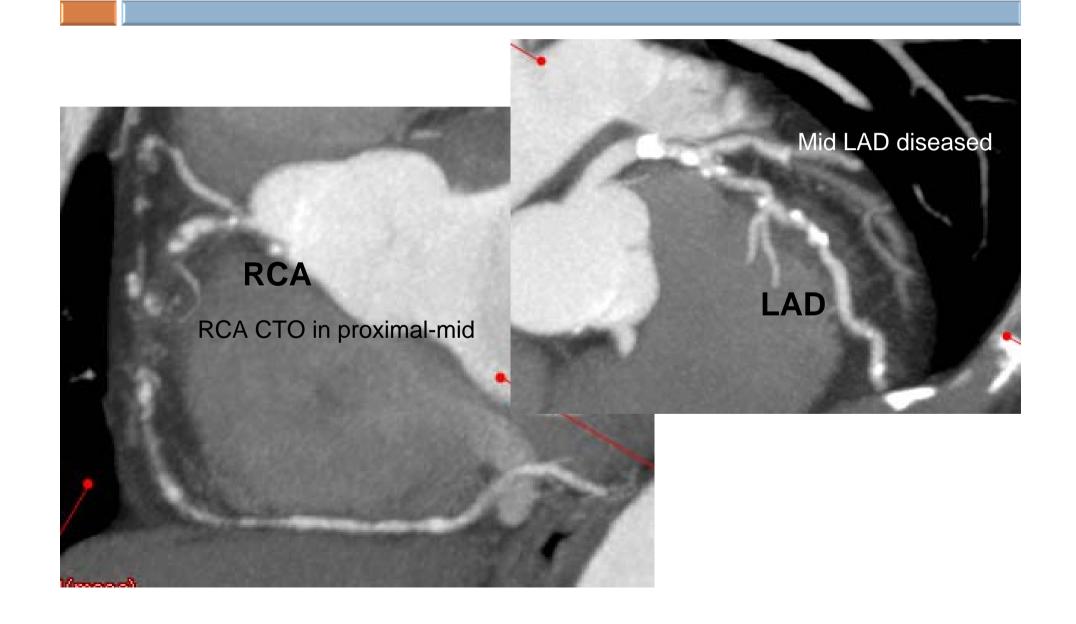
Heart CT



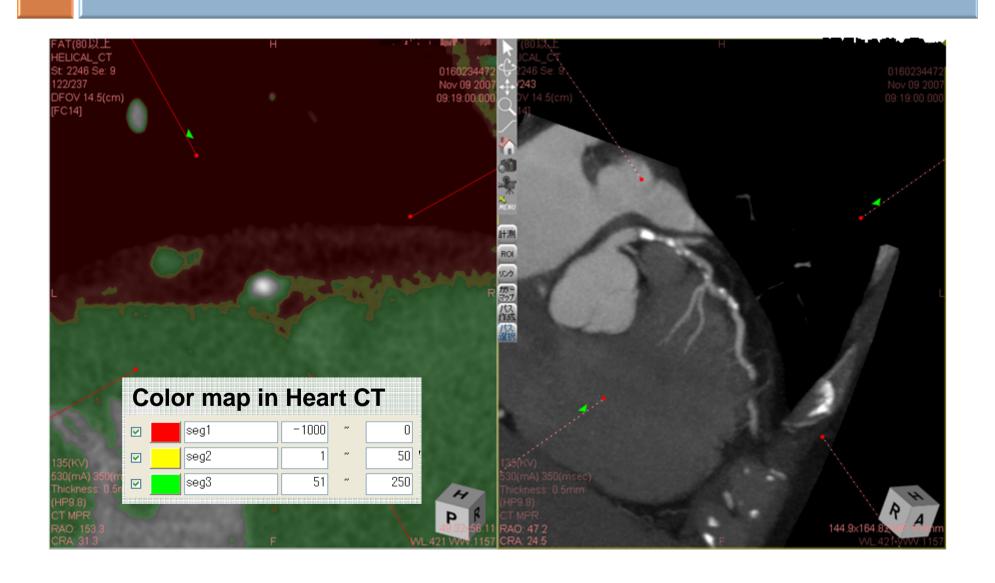




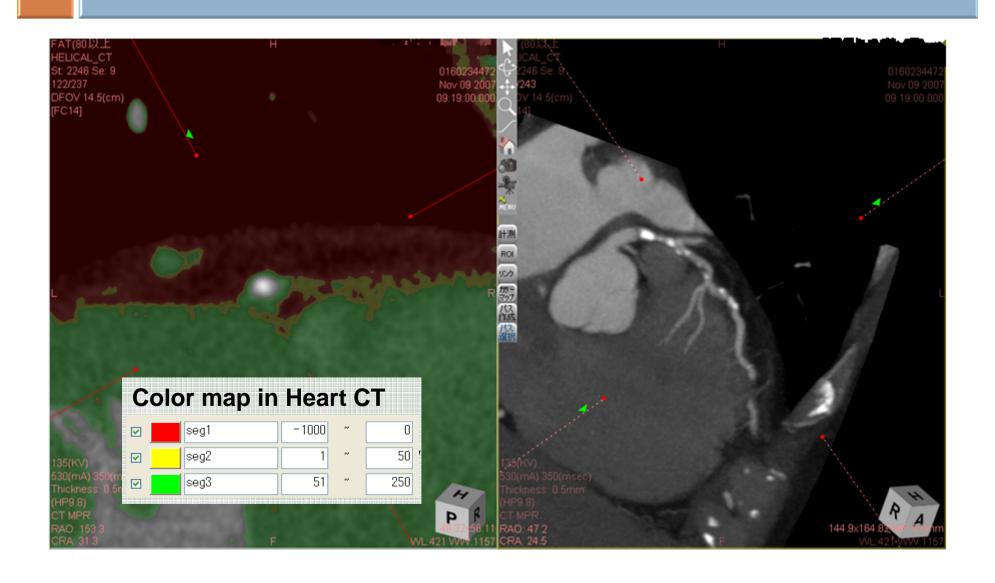
Heart CT



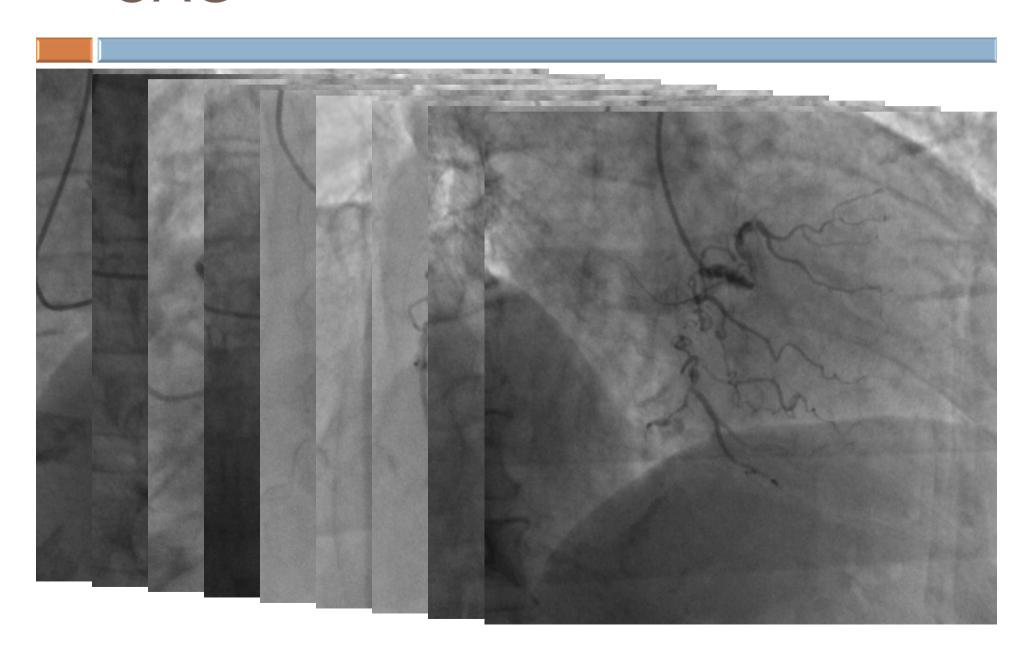
Heart CT: LAD plaque is "Fibrous"



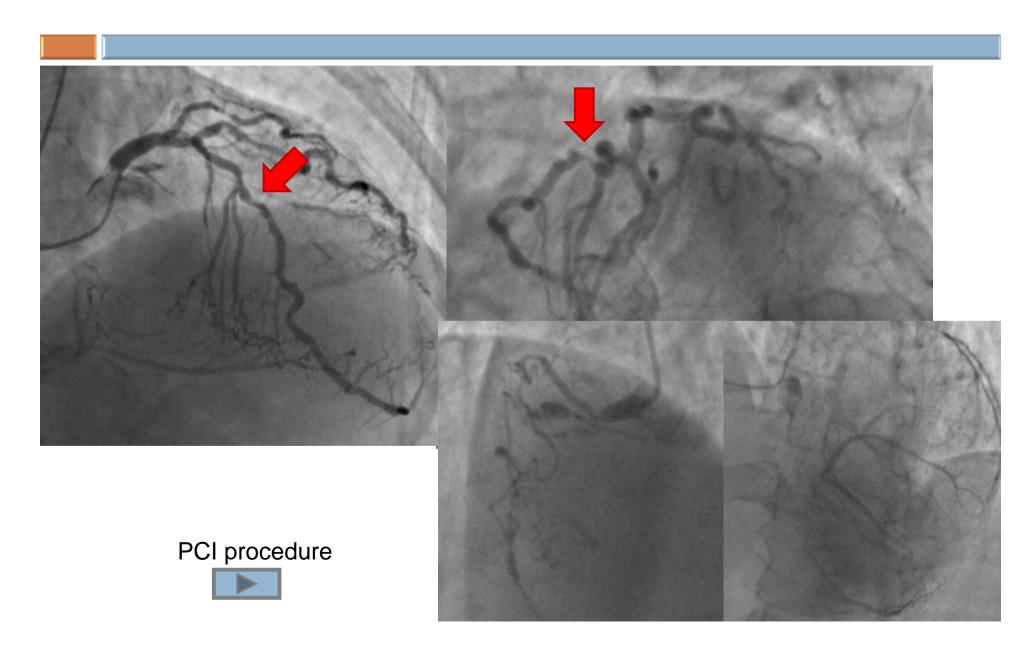
Heart CT: LAD plaque is "Fibrous"



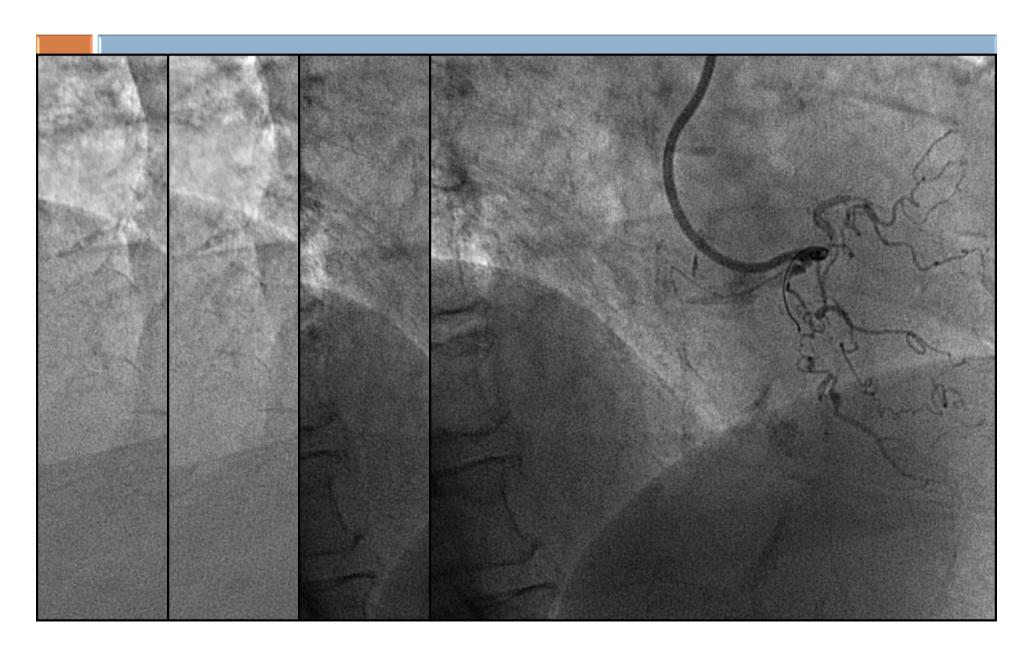
CAG



CAG



PCI-RCA1

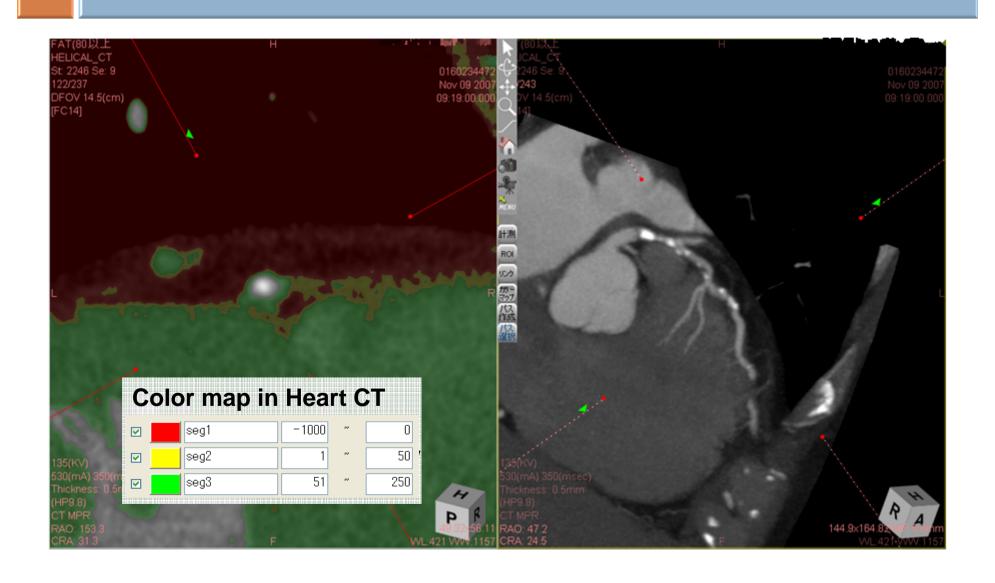


Decision make

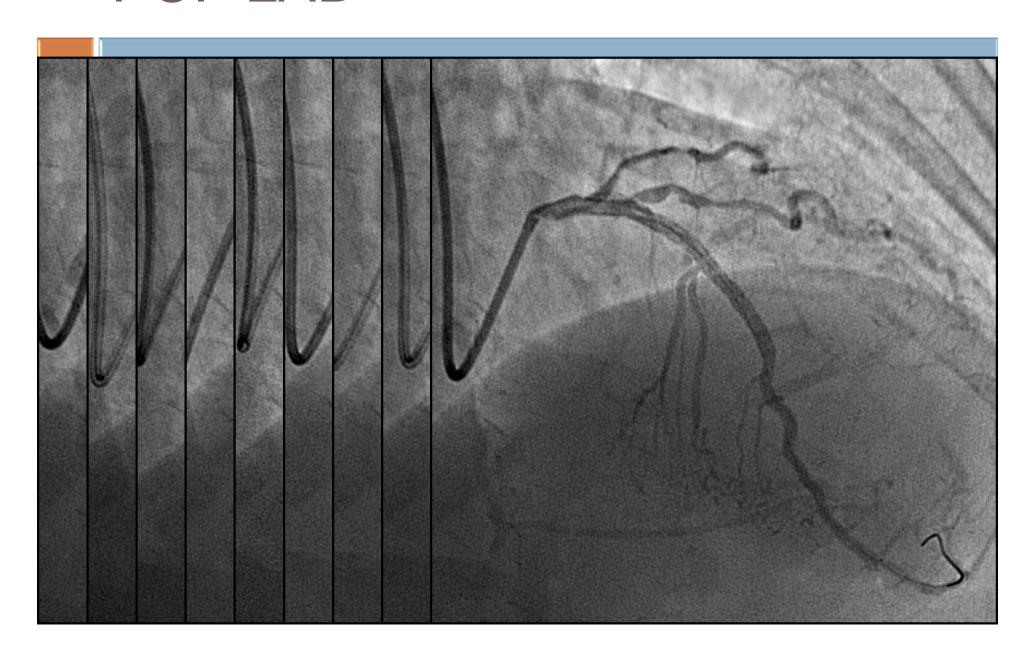
- 1. CABG
- 2. PCI for LAD

- Patient really refused CABG
- HCT information of LAD is low risk

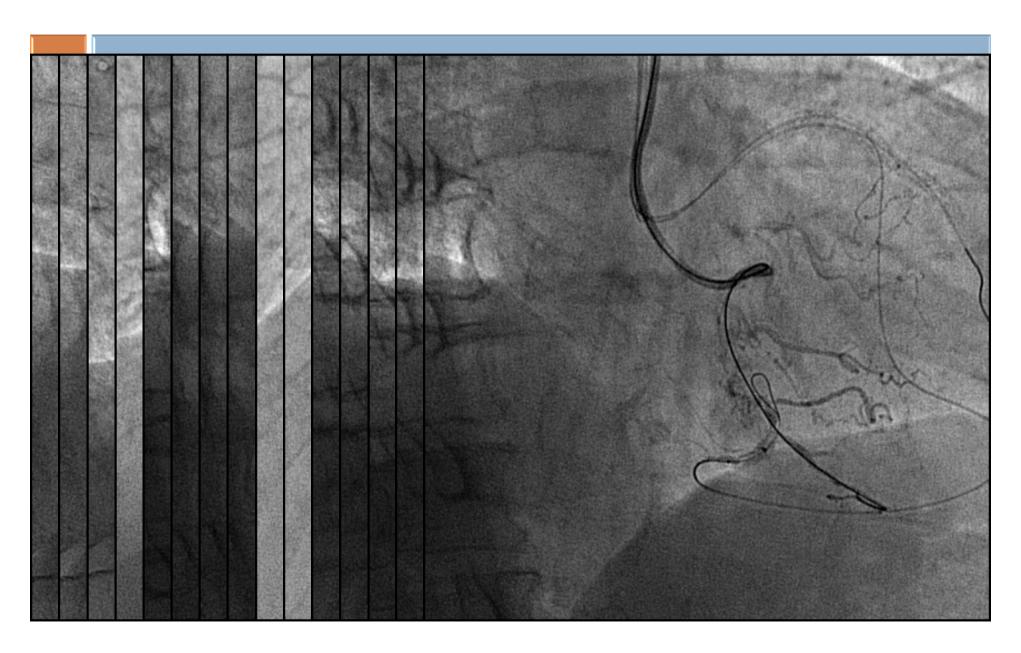
Heart CT: LAD plaque is "Fibrous"



PCI -LAD



PCI –RCA2



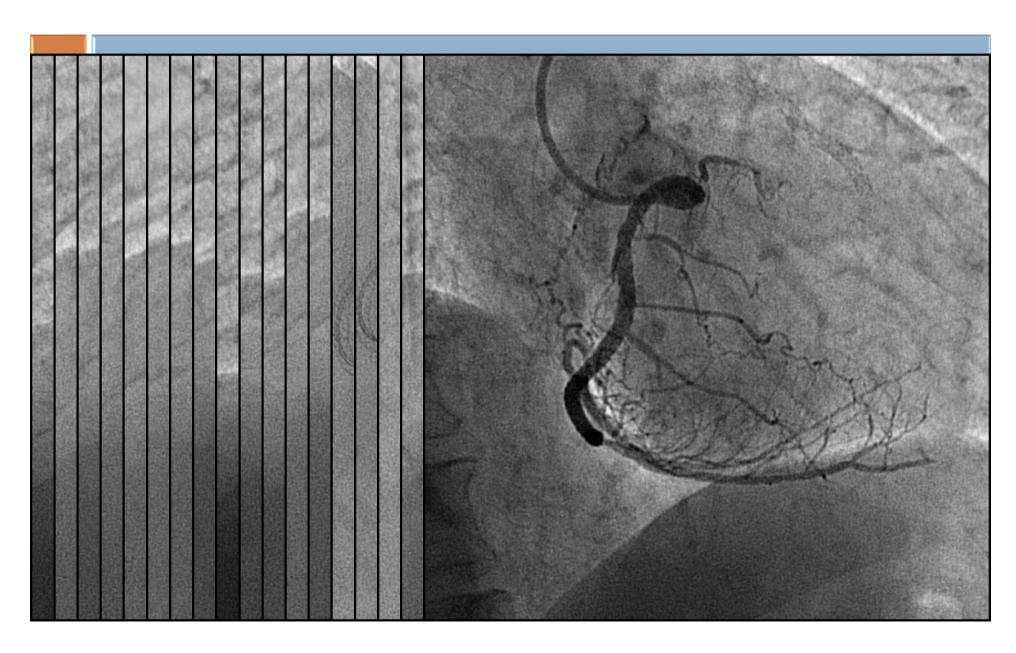
Reverse CART with Stenting



Reverse CART with Stenting



PCI -3



Final result



Summary

- Imaging devices are very useful effective for complex PCI.
- Heart CT can show the plaque, calcium, and occluded vessel information which are really helpful for complex PCI.
- IVUS can show the real-time information of wire, vessel damage which are also really useful to decide next option.
- We should be more familiar with those imaging devices to get success in complex PCI cases.