OCT guided PCI a first choice for patients with high SYNTAX score.

Sozykin A.V., Ertman V.G., Shlykov A.V., Nikitin A.E., Novikova N.A.





- Female, 63 y.o. CAD.
- Angina on minimal exertion and rest.
- STEMI 1 month ago (by CA acute occlusion RCA/one BMS, LM two stenosis 90% in ostiu m & 70% in terminal part, LAD chronic occlusion in the middle, LCX ostium stenosis 70%).
- Hypertension. Diabetes. Dyslipidemia type 2b, GFR 77.11 ml / min / 1.73 m2.





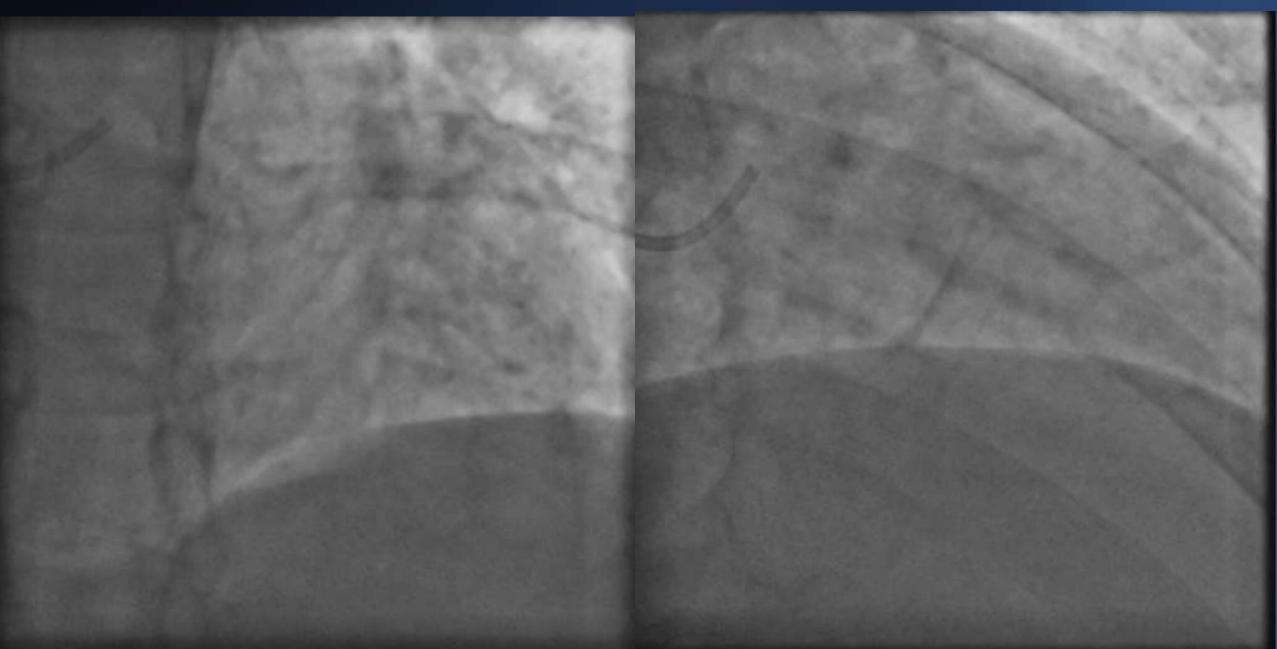
 ECHO 1 monht ago - hypokinesia, basal lower, partially posterior, middle & lower LV segments. MR 2st. TR 1st. Dilatation of th e LA. EF 56%

 Medications: DAPT, statins, hypotensive drugs, beta-blockers.

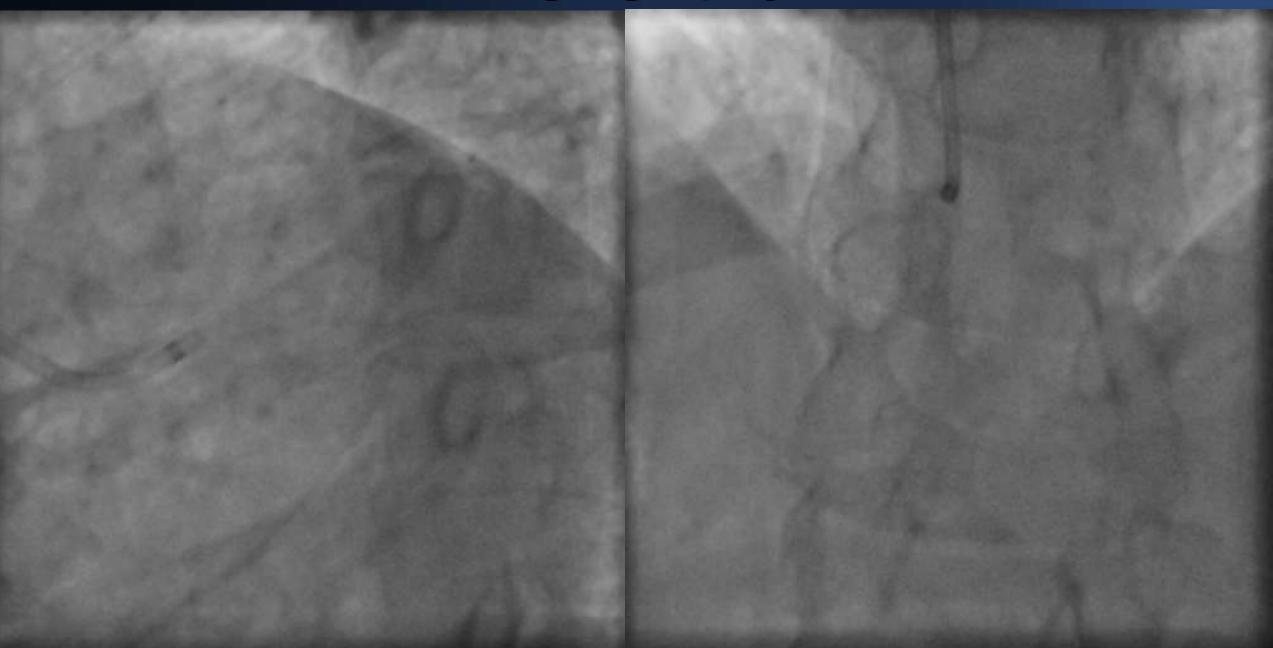




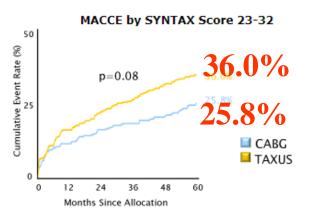
Angiography



Angiography



Risk calculations for PCI and CABG



The cumulative MACCE rate is displayed for the SYNTAX Trial group this score corresponds to.

SYNTAX Score I

Lesion 1	
(segment 5): 5x2=	10
Bifurcation Type: Medina 1,1,1:	2
Aorto Ostial lesion	1
Sub total lesion 1	13
Lesion 2	
segment number(s)	
(segment 7): 2.5x5=	12.5
Age T.O. is unknown	1
the first segment beyond the T.O. visualized by contrast: 7	0
+ sidebranch: Yes, all sidebranches <1.5mm	1
Sub total lesion 2	14.5
	27 5
TOTAL:	<u> 27.9</u>

TOTAL:

SYNTAX 11

Decision making -between CABG and PCI- guided by the SYNTAX Score II to be endorsed by the Heart Team.

PCI SYNTAX Score II: PCI 4 Year Mortality:

SYNTAX Score II

CABG SYNTAX Score II: CABG 4 Year Mortality: 31.3 **31.3** 7.5 % 7.5%

21.7 **21.7** 3.4 % **3.4 %**

Treatment recommendation 1:

CABG

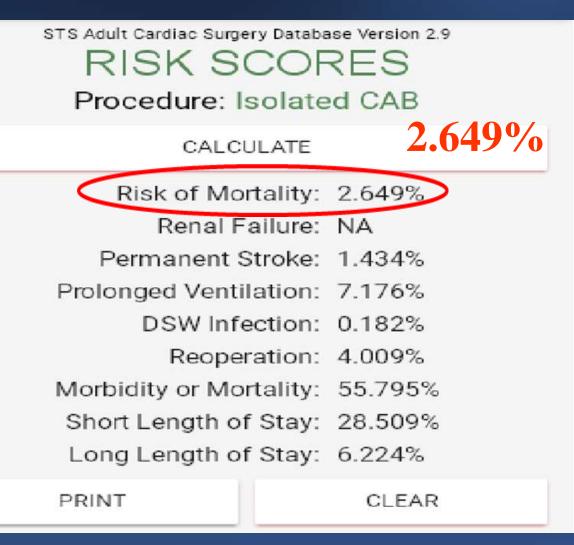






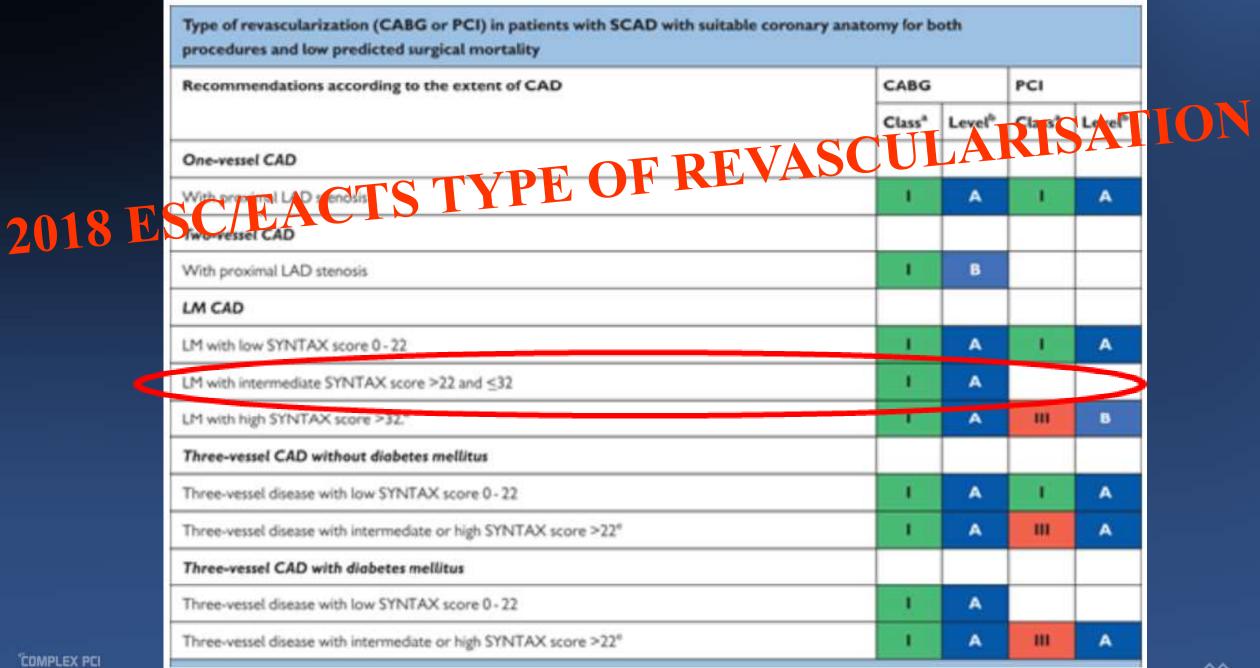
Risk assessment of adverse CABG

	Patient related factors		Cardiac related factors		
Age ¹ (years)	63	0.11	NYHA	11 ×	1070545
Gender	female 🔻	2196434	CCS class 4 angina ⁸	no •	0
Renal impairment 2 See calculator below for creatinine clearance	normal (CC >85ml/min)	0	LV function	good (LVEF > 50%) •	0
Extracardiac arteriopathy ³	yes •	5360268	Recent MI ⁹	no 🔻	0
Poor mobility ⁴	no 🔻	0	Pulmonary hypertension ¹⁰	no	0
Previous cardiac surgery	no •	0		Operation related factors	
Chronic lung disease ⁵	n0 ¥	0	Urgency ¹¹	elective •	0
Active endocarditis ⁶	no 🔻	0	Weight of the intervention ¹²	isolated CABG 🔹	0
Critical preoperative state 7	no T	0	Surgery on thoracic aorta	no 🔻	0
Diabetes on Insulia		0			
EuroSCORE II	1.28 %		1.28	0/0	
the 2011 EuroSCORE II	Calculate Clear				



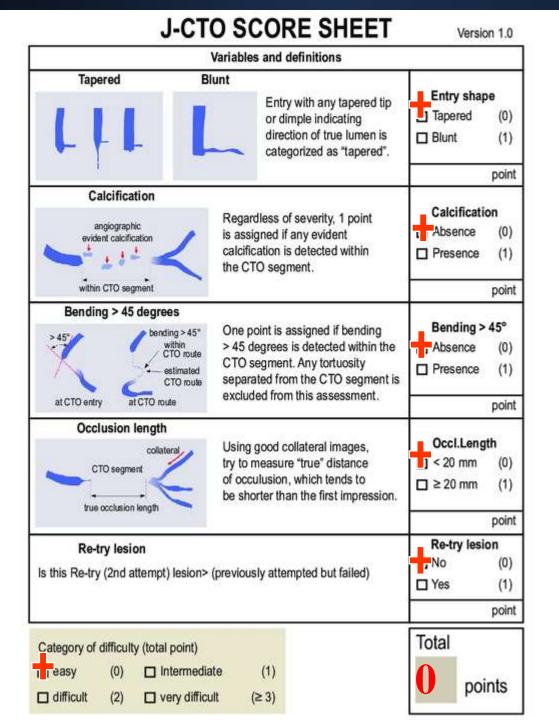






COMPLEX PCI Make It Simple!

CVRF







Who is right and which is better?!







Discussion Points



PCI only LM – LCX

 Recanalization LAD and PCI LM (provisional stent)



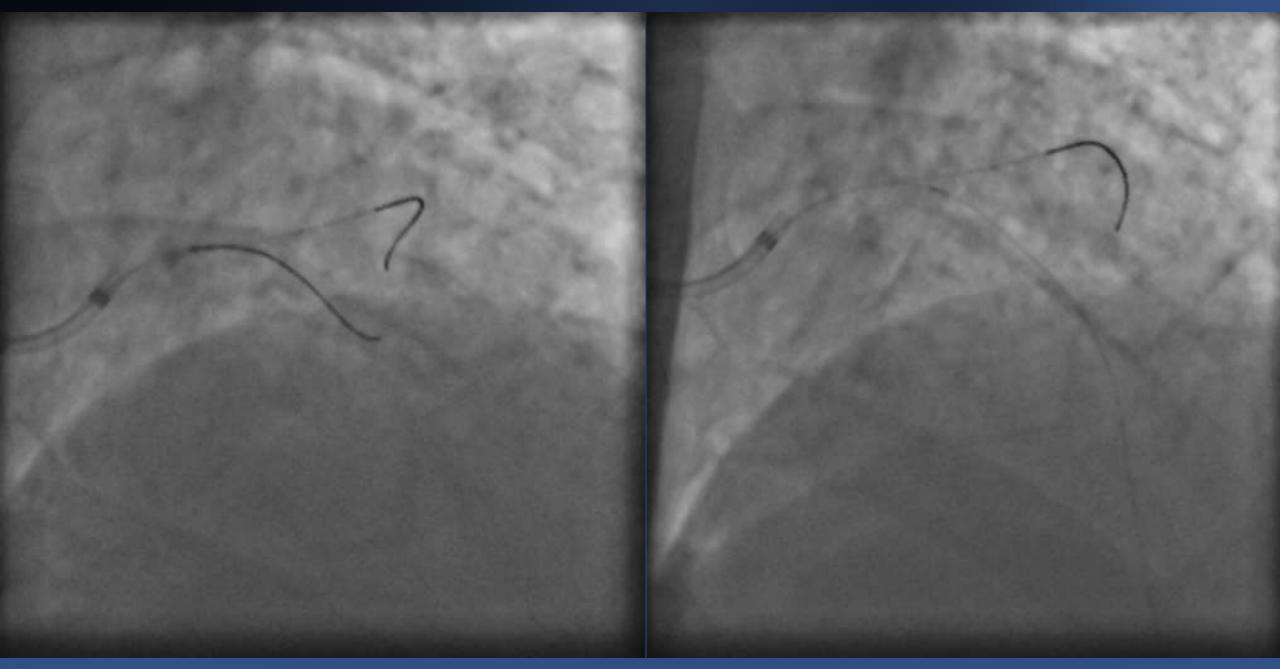


 We choice OCT guided PCI (radial access, EBU 3.5SH 6F, two wire, recanalisation LAD, predilatation LM and LAD, provisional stenting, with OCT control).

 We opened the LAD and installed 1 ZDES, the n performed a provisional stent LM and LAD 1ZDES with POT, did kissing and POT again, by OCT control of the LM, LAD and LCX.

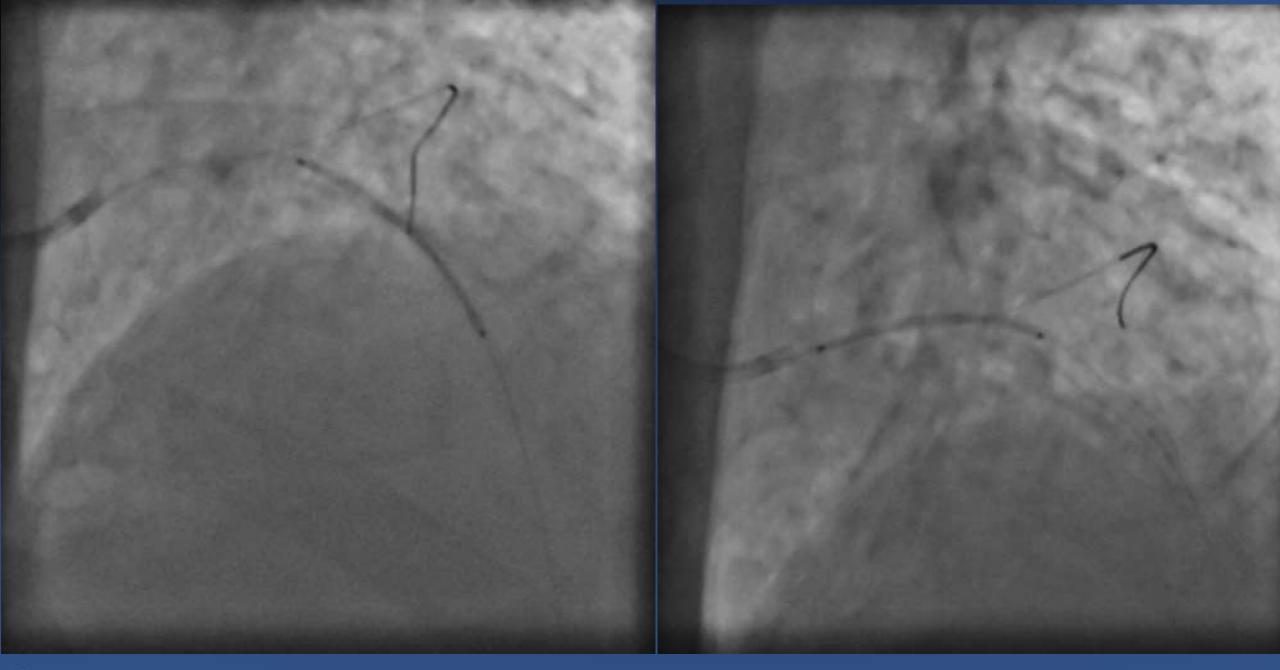






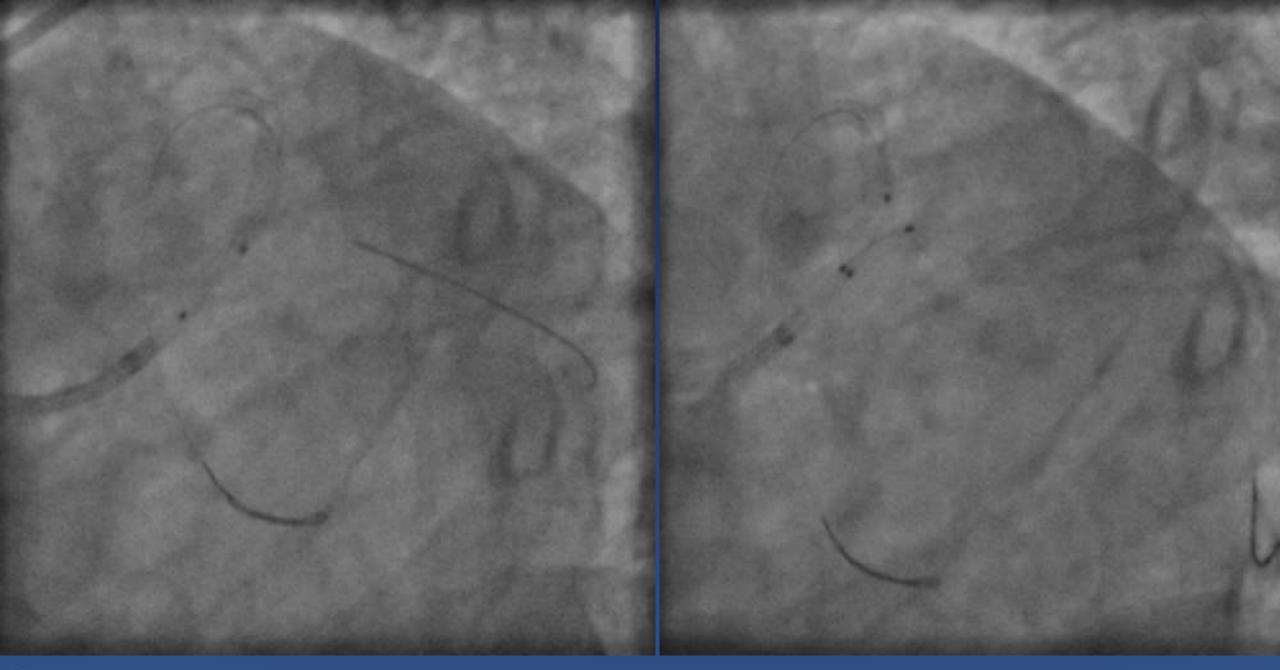






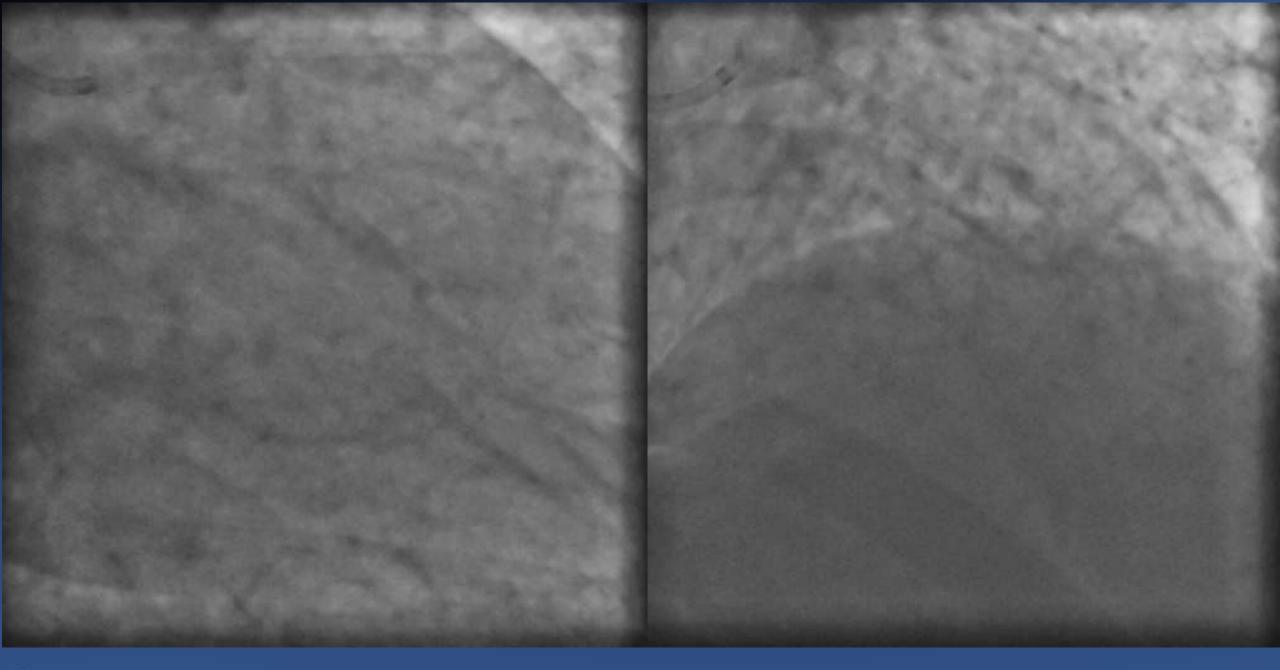






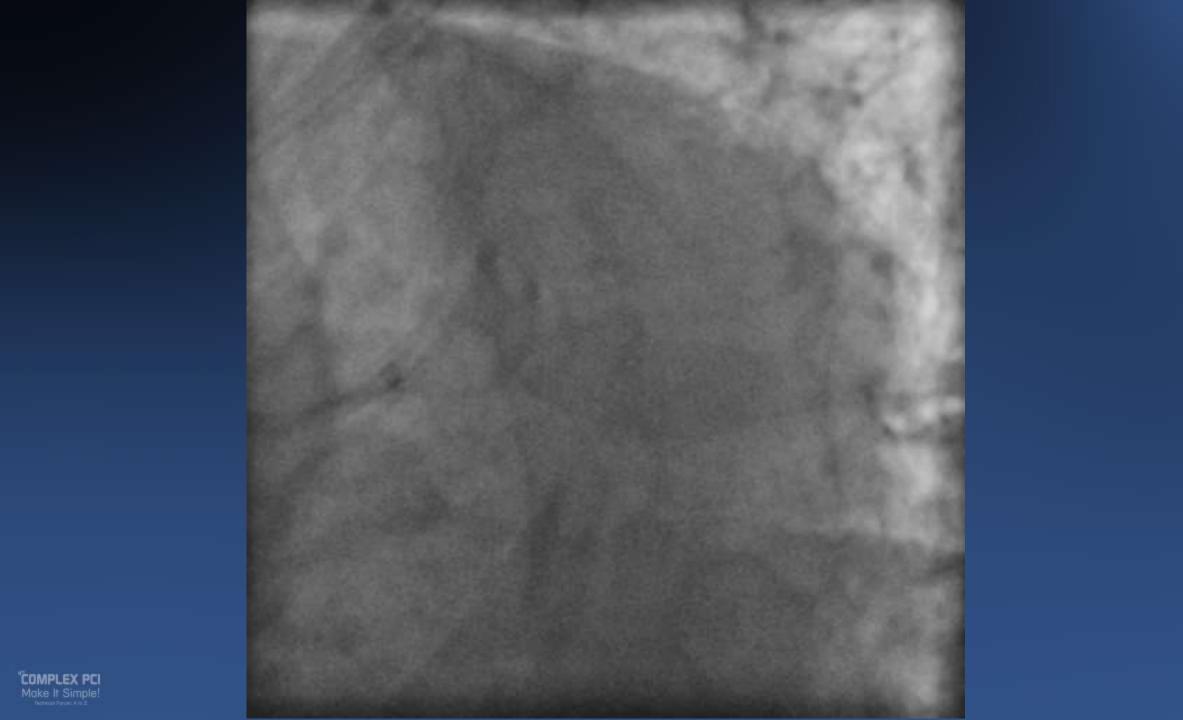






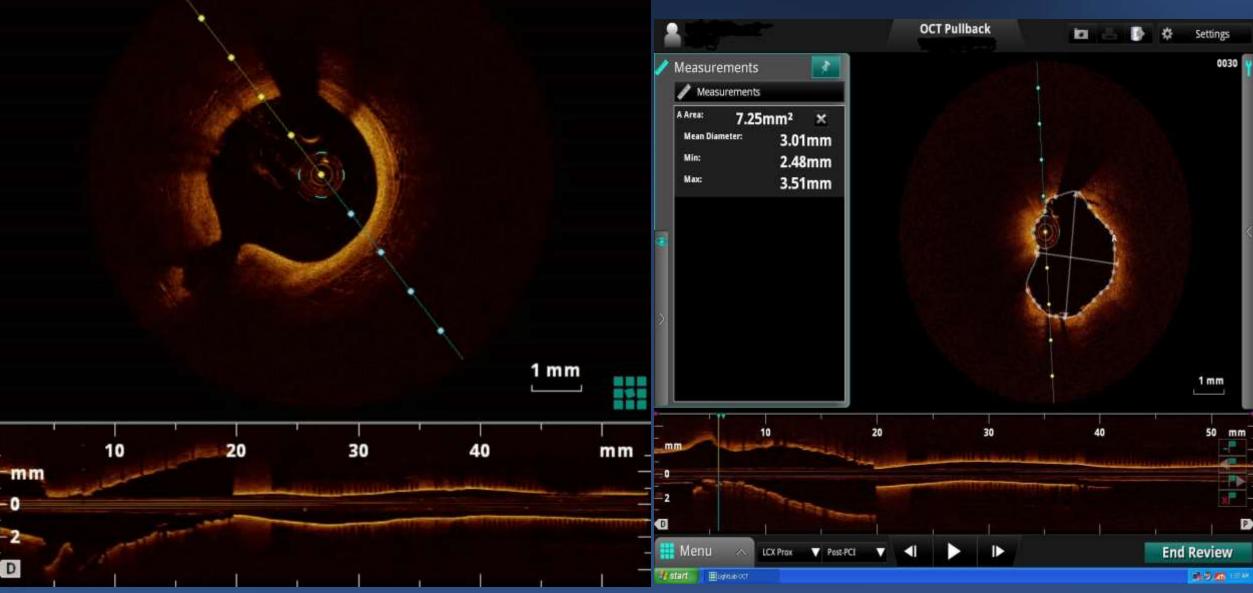






CVRF

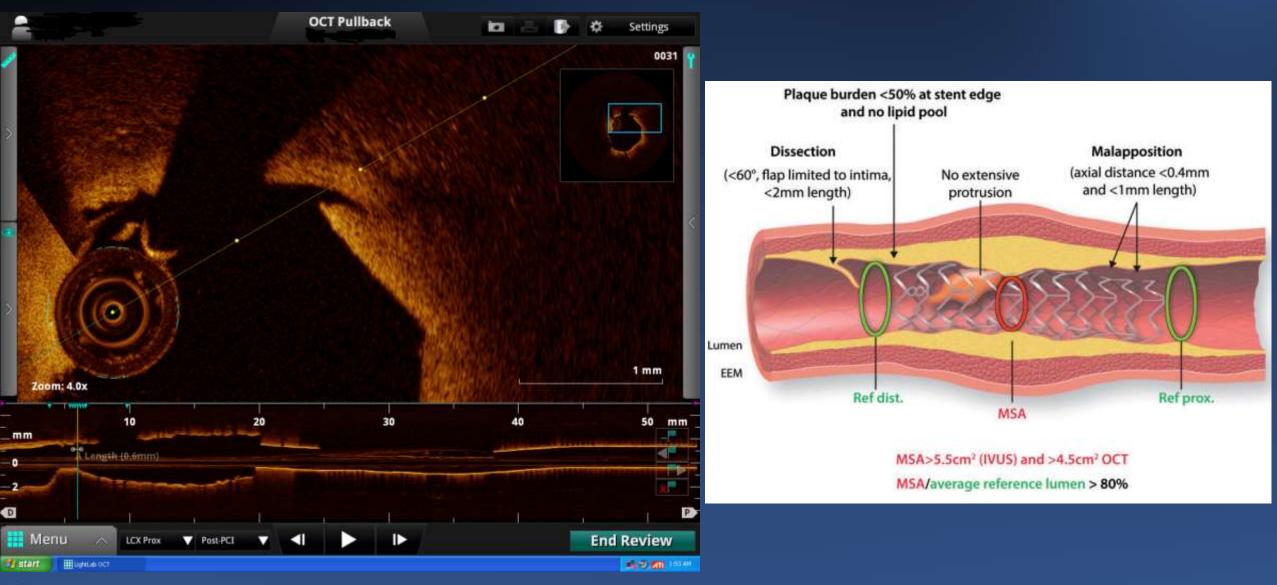
OCT LCX - LM



COMPLEX PCI Moke It Simple!



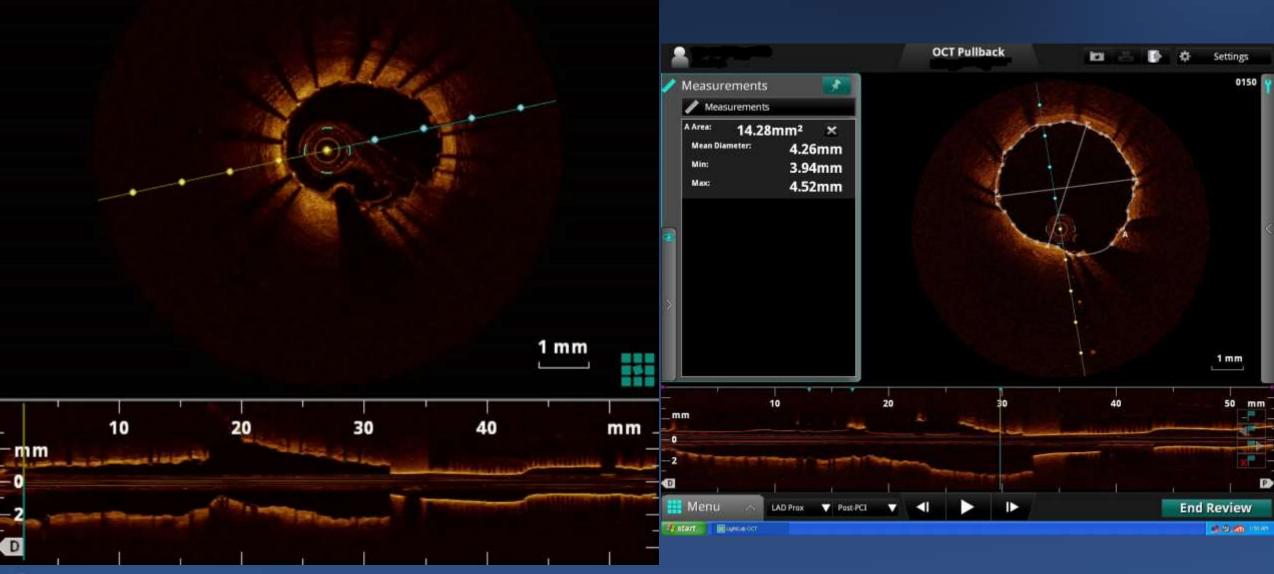
Ostium LCX



COMPLEX PCI Moke It Simple!



OCT LAD - LM



COMPLEX PCI Make It Simple!



Conclusion/Take-home Message

- Using of OCT in high-risk patients for PCI allows to performing coronary interventions with high efficiency comparable to surgery.
- The decision on the method of revascularization should be taken by a heart team, taking into account the recommendations, calculating risks and individual patient characteristics.
- Need as a necessarily to use these modern methods of intravascular imaging to help us and our patients come to the best decision for them.



