



Torino, 24-26 ottobre 2019

Sessione Plenaria

The 2019 legends corner: What do we have still to discuss about PCI on ULM

Antonio Colombo

EMO-GVM, Centro Cuore Columbus, Milan, Maria Cecilia Hospital ,Cotignola (RA) and GVM Laboratories, Italy





No conflicts to disclose





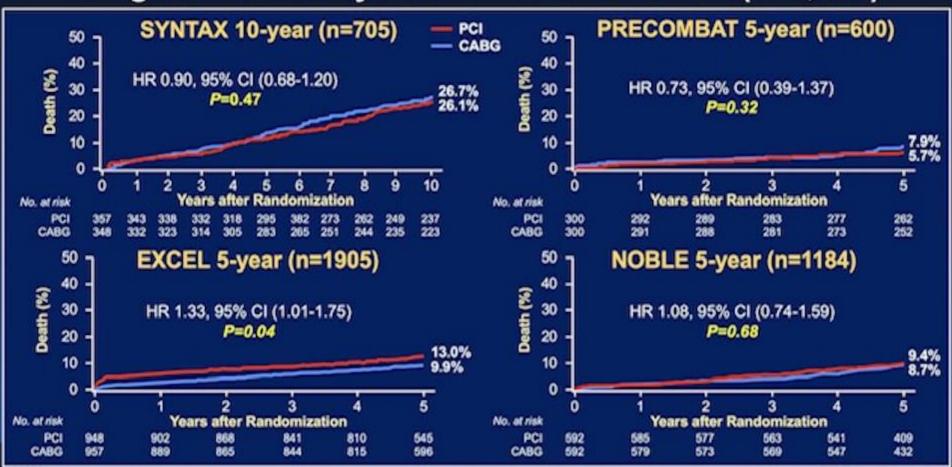
The LMCA supplies, on average, 75% of the left ventricle. Examination of 100 autopsy cases found that the LMCA had an average length of 10.8 mm an average diameter of 4.9 mm.

Jasti and colleagues reported that a minimal luminal area (MLA) of 5.9 mm² had the highest sensitivity and specificity (93% and 95%, respectively) for determining a significant LMCA stenosis, compared with FFR as the gold standard.





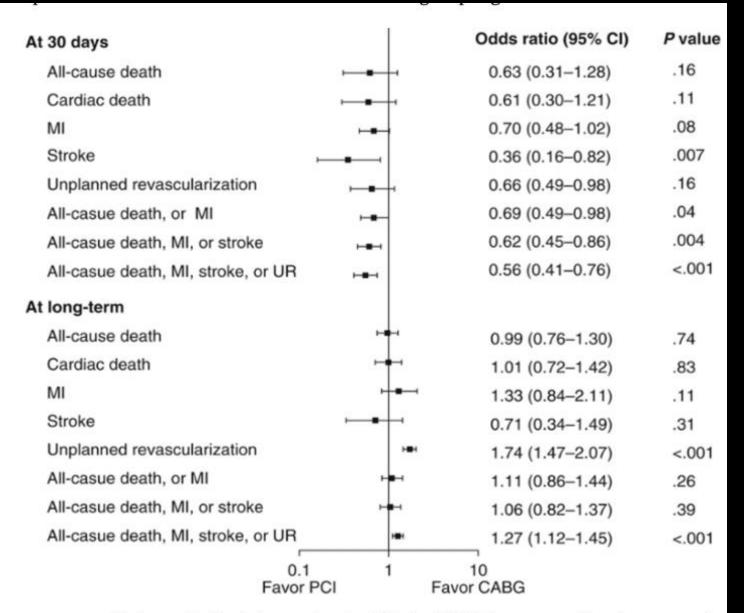
Long-term Mortality after LM DES vs CABG (n=4,392)



Thuijs DJFM et al. Lancet. 2019; Sept 2, on-line; Ahn JM et al. JACC 2015;65:2198-206 Stone GW et al. NEJM 2019; Sept 28th, on-line; Christiansen E. TCT 2019







Meta-analysis of six randomized trials. CABG, Coronary artery bypass graft;





"There is Left Main Disease and Left Main Disease"





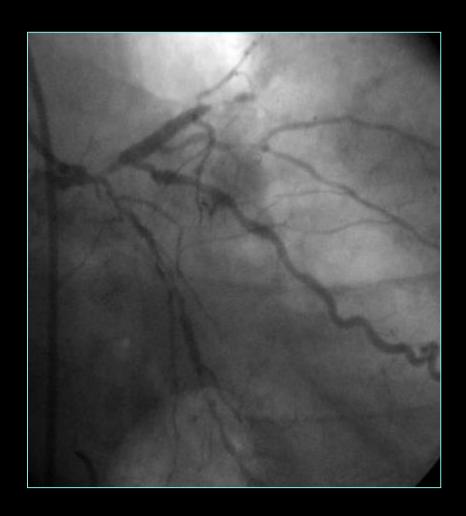


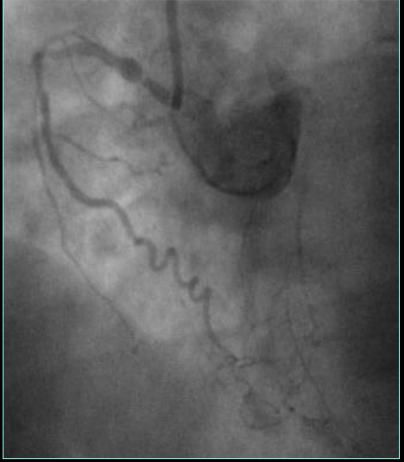


Left Main interventions are frequently more dependent upon lesions outside the left main





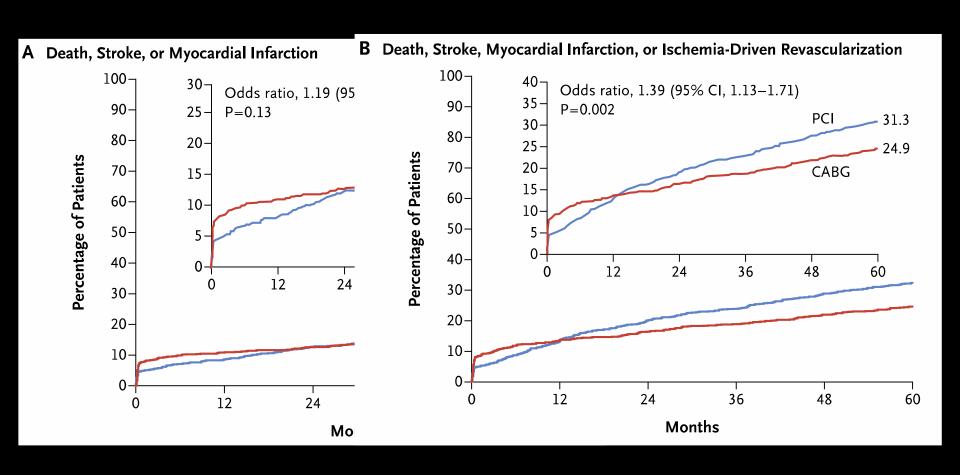




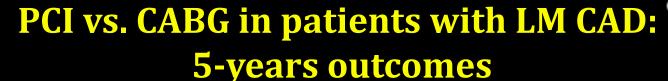


PCI vs. CABG in patients with LM CAD: 5-years outcomes

Here is the report of the final 5-year outcomes from EXCEL trial

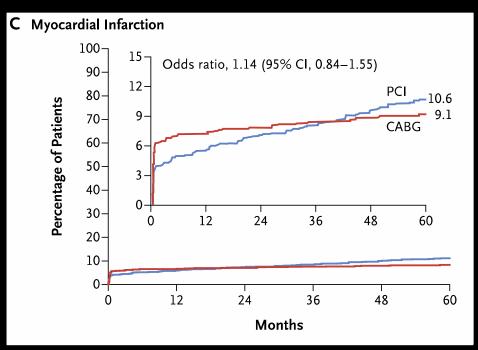


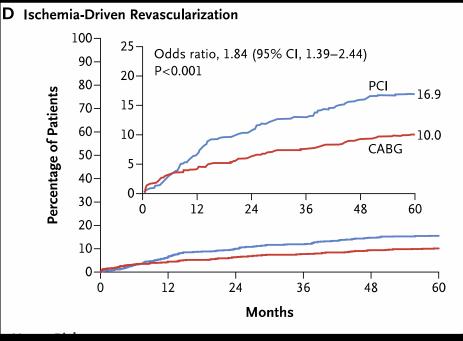






Results of analyses of the components of the primary and secondary composite outcomes





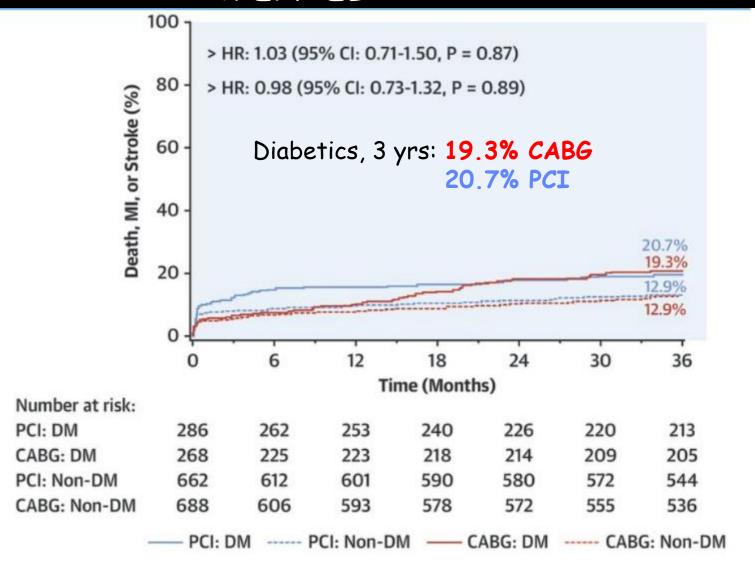
ORIGINAL ARTICLE

Five-Year Outcomes after PCI or CABG
for Left Main Coronary Disease



Diabetics analysis of PCI vs. CABG in EXCEL





Milojevic, M. et al. J Am Coll Cardiol. 2019;73(13):1616-28.





PCI vs. CABG SYNTAX Extended Survival study



The ESC

Congresses & Events

Journals

Guidelines

Education

Research

Bypass surgery and coronary stenting yield comparable 10-year survival

SYNTAX Extended Survival study presented in a Hot Line Session today at ESC Congress 2019 together with WCC

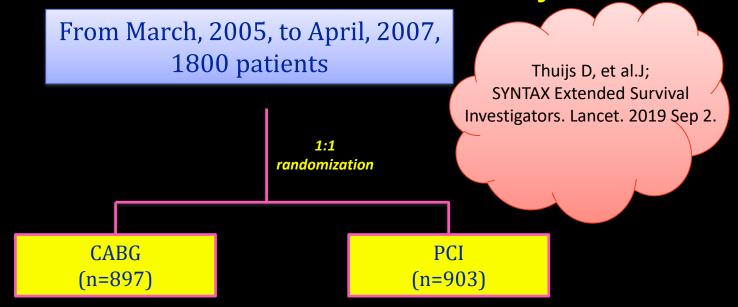
02 Sep 2019

Ten-year survival rates are similar for bypass surgery and coronary stenting with drugeluting stents in randomised patients with *de novo* three-vessel and left main coronary artery disease, according to late breaking results from the SYNTAX Extended Survival study presented in a Hot Line Session today at ESC Congress 2019





PCI vs. CABG
SYNTAX Extended Survival study



- At 10 years, no significant difference existed in all-cause death between PCI using first-generation paclitaxel-eluting stents and CABG.
- CABG provided a significant survival benefit in patients with three-vessel disease, but not in patients with left main coronary artery disease



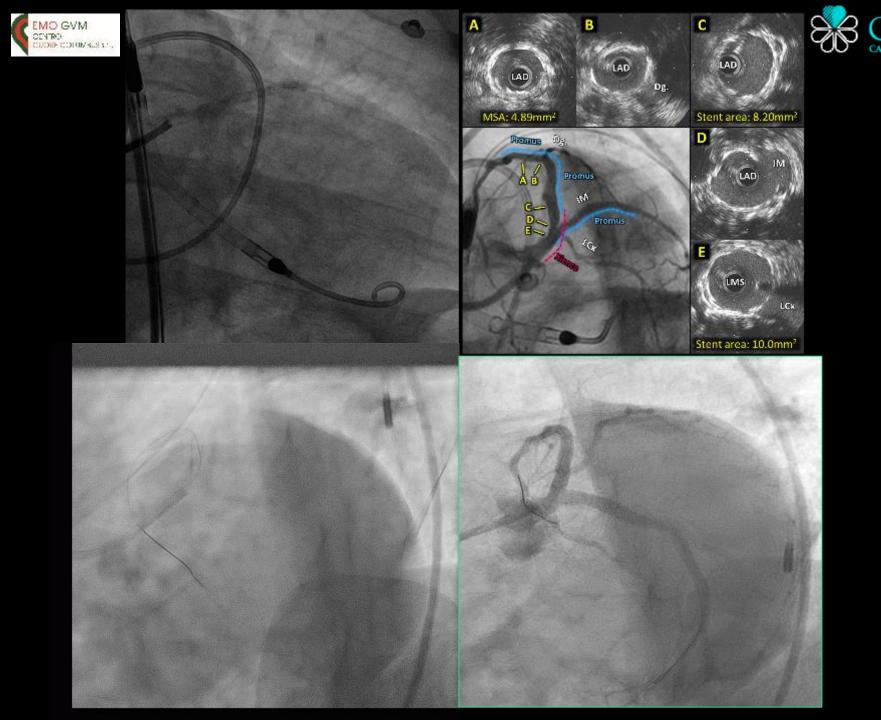


What kind of technique

When possible provisional stenting should be preferred, the ostium of the circumflex is a weak point for restenosis

When 2 stents are needed we prefer Crush/DK Crush (JACC published positive 3 yrs. results)

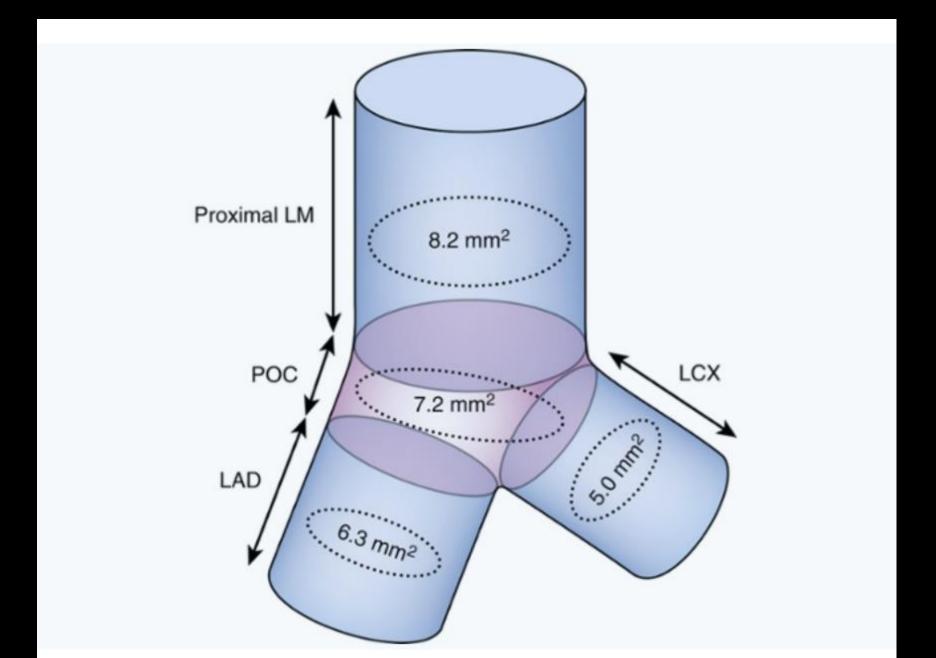
Whatever technique you use the final result is the most important aspects





Results we should obtain









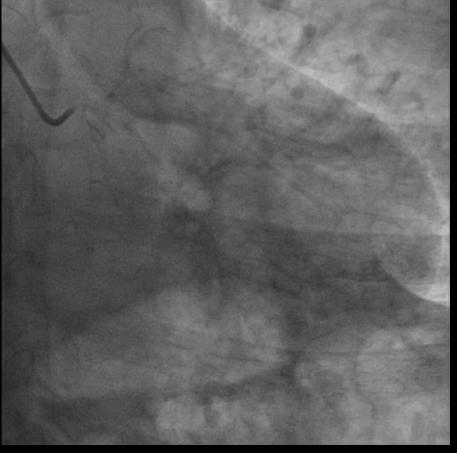
Let us not make LM an iatrogenic disease





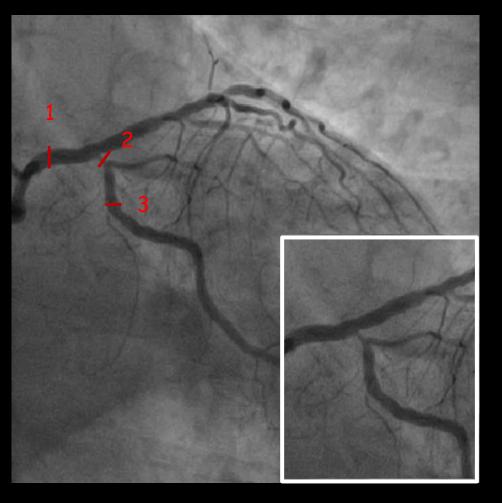
Isolated, stenosis at the ostium of the Cx

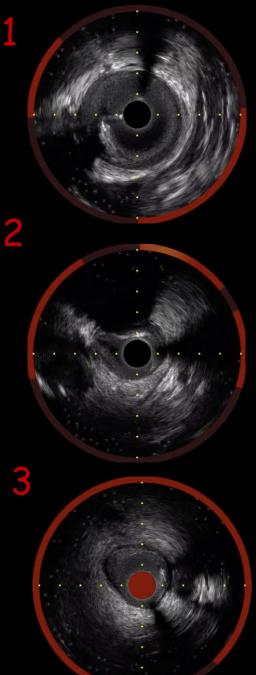










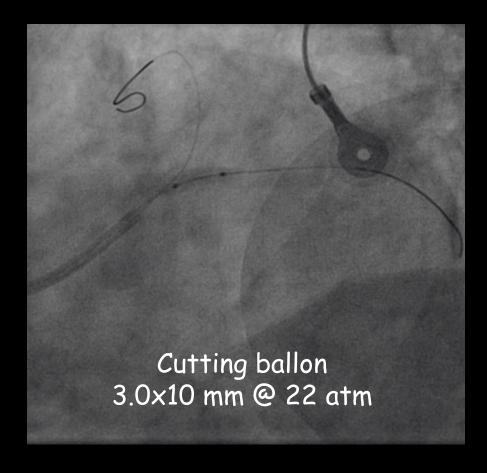








Lesion preparation



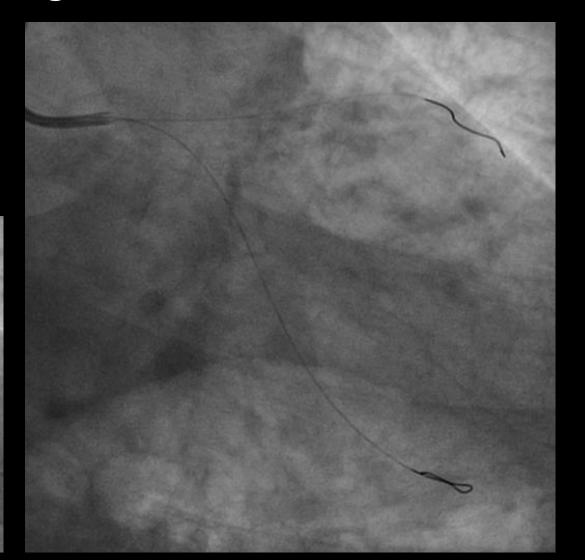








Drug-coated balloon MagicTouch 3.5 x 20 mm





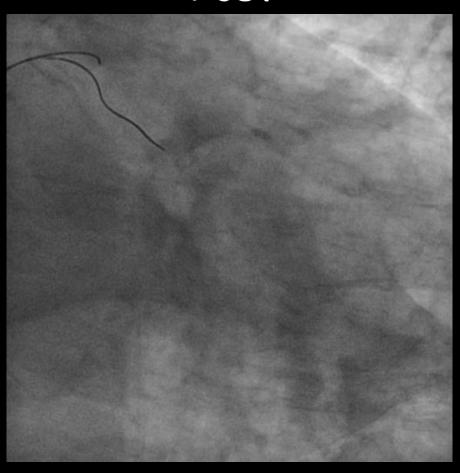
Final angiography



Baseline













PCI

- -Less invasive and early recovery
- Eally safety advantage (less MI, less stroke, or less major periprocedural adverse events)
- Similar mortality

Heart Team Approach



CABG

- Long-term durability
- Less revasculaization
- Lass spontanaous MI
- Similar mortally

Favor for PCI

Recommendation

Favor for CABG

Clinical Factors

- Urgent revascularization
- Serious comorbidity and high surgical risk (ie., chronic lung disease, advanced age, disability from prior stroke, prior bypass surgery, or poor general performance)

- Clinical equipose

- Low ejection fraction
- Longstanding diabetes
- Need for any concomitant cardiac surgery
- High-bleeding risk unable to comply with DAPT

Anatomical Factors

- Ostial or trunk LM disease
- Isolate LM disease (nonbifurcational or bifurcational)
- LM plus additional one-vessel disease
- LM plus additional two-vessel disease
- LM plus additional three-vessel disease
- Combined complex anatomy not suitable for PCI (i.e., severe calcification or tortuosity, CTO, multiple/diffuse long lesions, or complex in-stent restenosis)

Each patient's individual circumstances and preferences