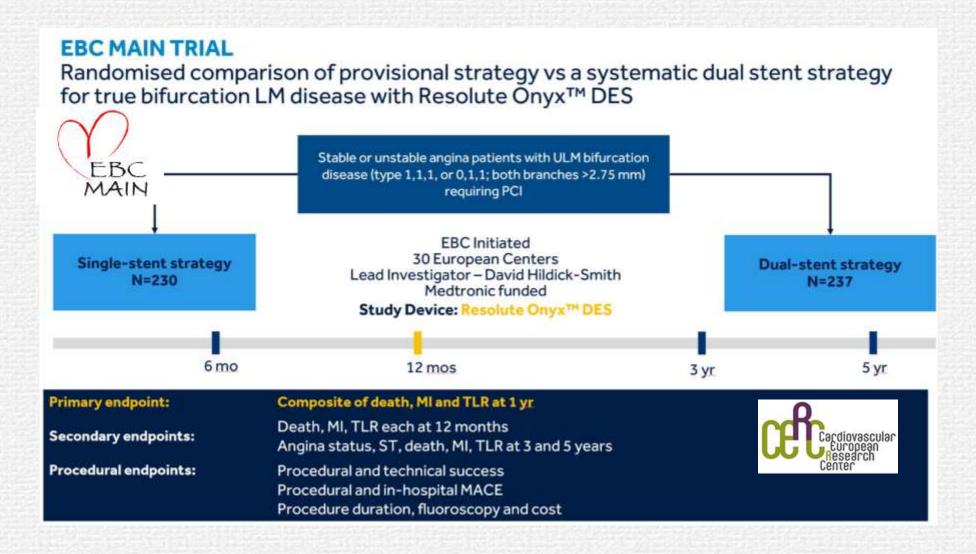
How did procedural technique influence outcomes in EBC MAIN?

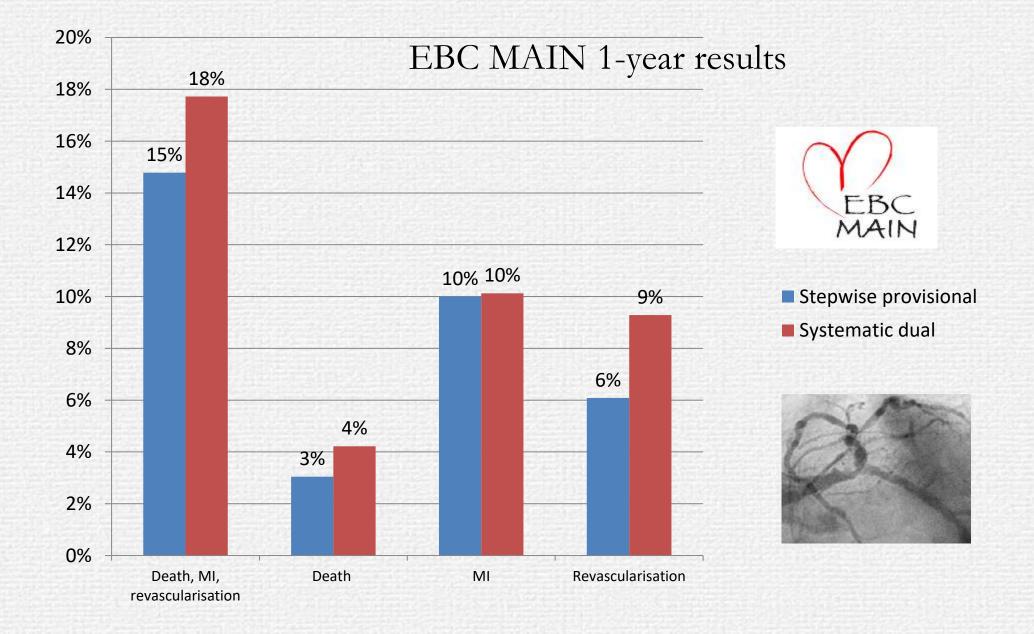
David Hildick-Smith
Professor of Cardiology,
University Hospitals Sussex, UK





EBC MAIN study summary

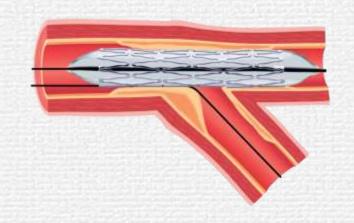


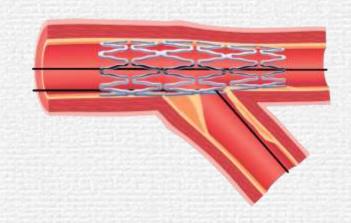


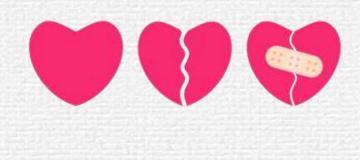
Questions related to technique

- How often did we see loss of flow in a jailed vessel?
- How often did it prove impossible to rewire a jailed vessel?
- How often did we see the need for side vessel stenting?

PROVISIONAL AND DUAL STENT







JAILED SIDE VESSEL FLOW IMPAIRMENT 5% (20/400)

- Increased with ≥moderate calcification [OR 4.5, p=.009]
- No benefit with SV preparation

FAILURE TO REWIRE JAILED VESSEL

3.9% (17/431)

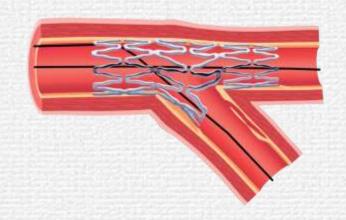
- Increased in the absence of a jailed wire [OR 6.4, p=.002]
- No benefit with SV preparation

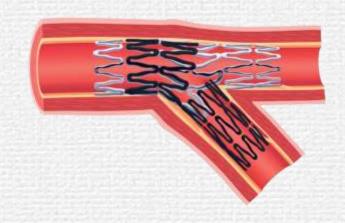
PERIPROCEDURAL MYOCARDIAL INFARCTION

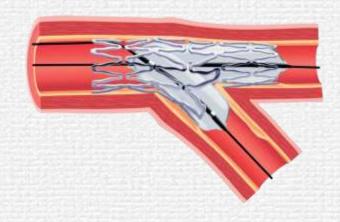
4.6% (20/438)

- No association with transient TIMI <3 flow
- Reduced with NC balloon use for KBI [OR 0.2, p=.020]

PROVISIONAL ONLY







REQUIREMENT FOR SIDE VESSEL INTERVENTION

25.9% (58/224)

Reduced with POT [23.3% vs 41.9%, p=0.04]

SIDE VESSEL DISSECTION REQUIRING STENTING

44% (22/50)

- Increased after side vessel preparation [15.3% vs 4.4%, p=0.04]
- Increased with ACS presentation[16.9% vs 6.1%, OR 2.7, p=0.04]

SIDE VESSEL STENOSIS REQUIRING STENTING

42% (21/50)

Reduced with use of noncompliant balloon KBI [5.7% vs 17.9%, OR 0.3, p=0.01]

Conclusions

• Transient reduction of side vessel flow occurred after initial stent placement in 5% of procedures but was not associated with periprocedural myocardial infarction.

EBC

- Failure to rewire a jailed vessel during any strategy was more common when jailed wires were not used (9.5% vs. 2.5%, p=0.002).
- In the provisional cohort, the use of the proximal optimization technique was associated with less subsequent side vessel intervention (23.3% vs. 41.9%, OR: 0.4, p = 0.048).

Conclusions

EBC

- Side vessel stenting was predominantly required for dissection, which occurred more often following side vessel preparation (15.3% vs. 4.4%, p = 0.04).
- Noncompliant balloons for kissing balloon inflation was associated with reduced need for side vessel intervention in provisional cases (20.5% vs. 38.5%, p = 0.01)
- Noncompliant balloons for kissing balloon inflation was associated with a reduced risk of periprocedural myocardial infarction across all strategies (2.9% vs. 7.7%, p < 0.02).