

# **The British Heart Foundation SENIOR-RITA Trial**

## **Invasive Treatment Strategy for Older Patients with Myocardial Infarction**



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# Take Home Messages



- The SENIOR-RITA trial is the largest trial to date in older adults with heart attacks than all previous trials combined.
- Among older adults with type I NSTEMI, an invasive strategy is safe.
- An invasive strategy did not significantly reduce the combined risk of cardiovascular death or non-fatal myocardial infarction as compared with a conservative strategy.
- Treatment with an invasive strategy did reduce the risk of non-fatal myocardial infarction and subsequent revascularization.
- The results provide a foundation for older heart attack patients and their clinicians to make an informed decision about whether to undergo invasive coronary angiography or not.

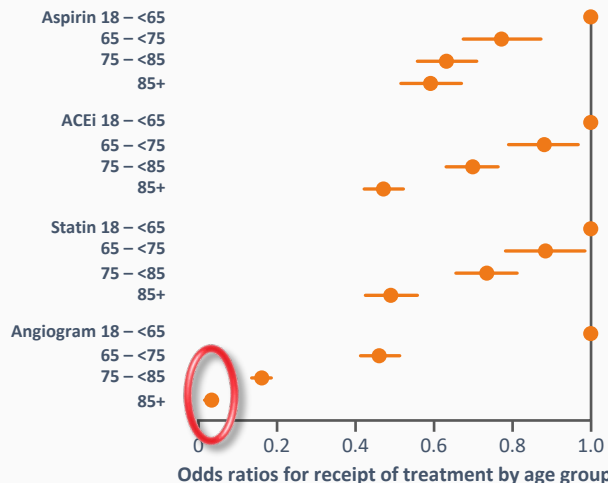
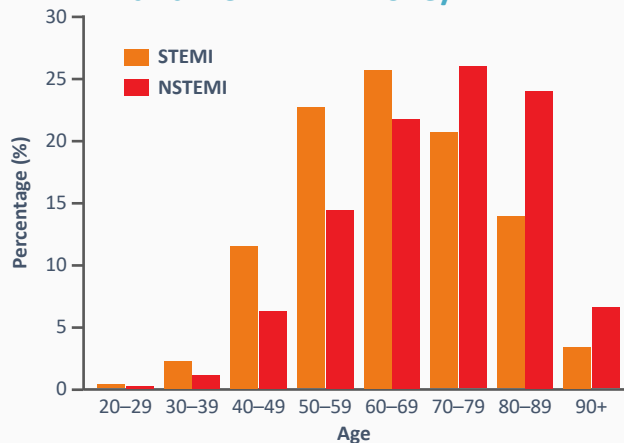
# Background: Optimal care underutilised in older patients

50% of NSTEMI occurs in patients aged  $\geq 70$  years!

**NICOR**

Myocardial Ischaemia National Audit Project (MINAP)

Frequency distribution of STEMI and NSTEMI in 2013/14

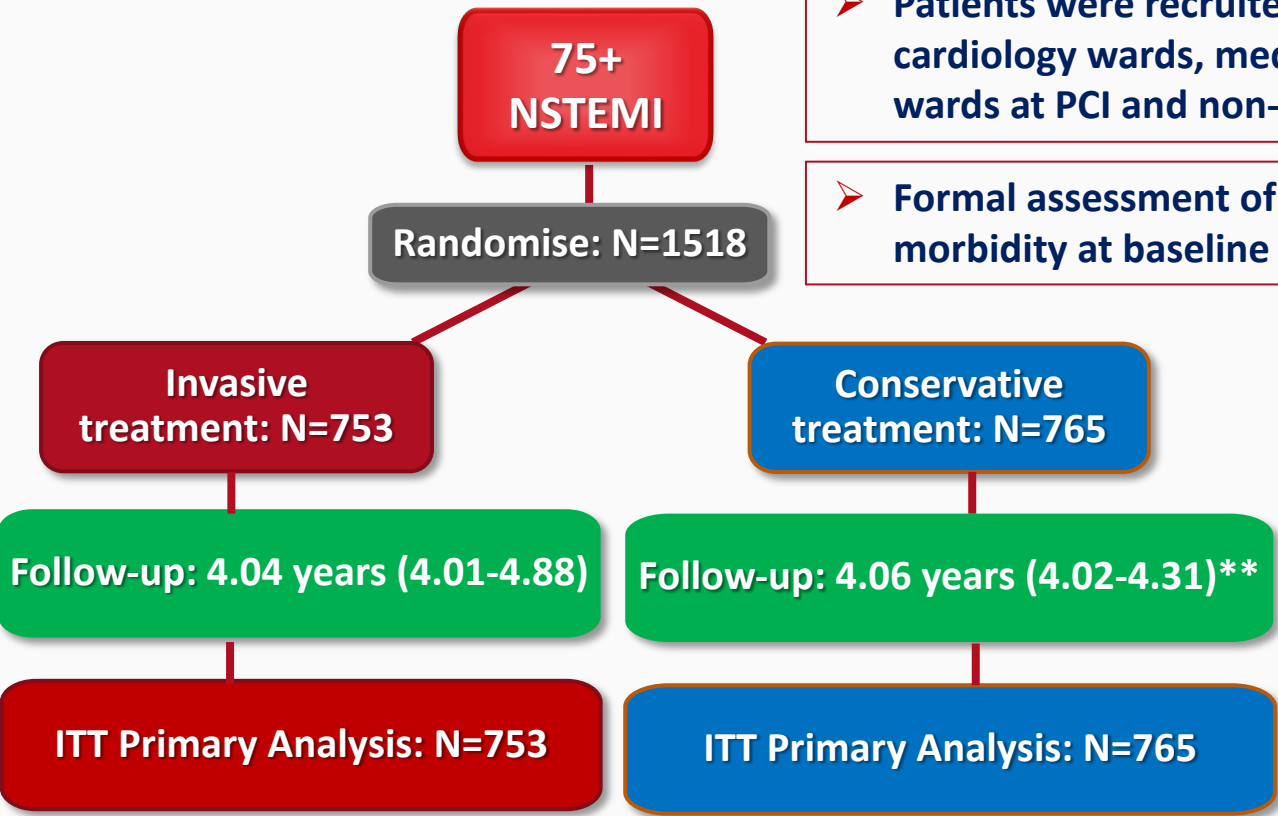


## Questions:

- Older adults undertreated?
- What about the rest- 86%?
- Fear of complications?
- Futility?
- Care is diverse

Only **14%** of those  $\geq 85$  years receive angiography

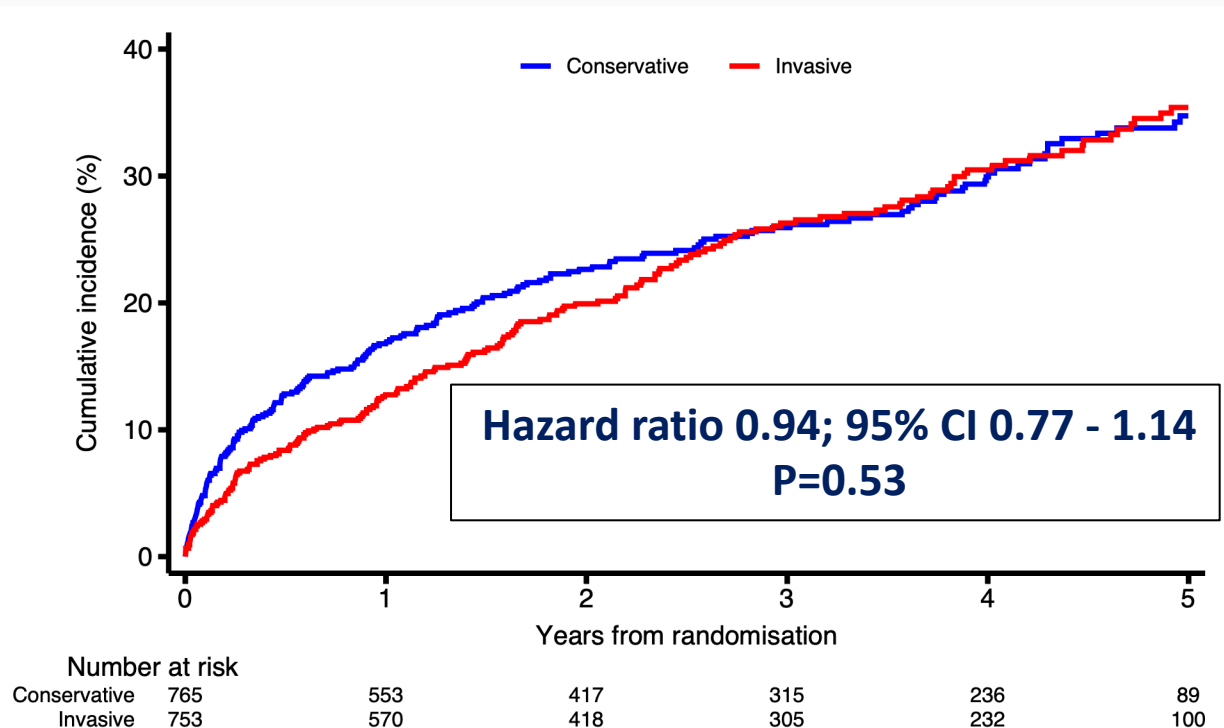
# STUDY FLOW



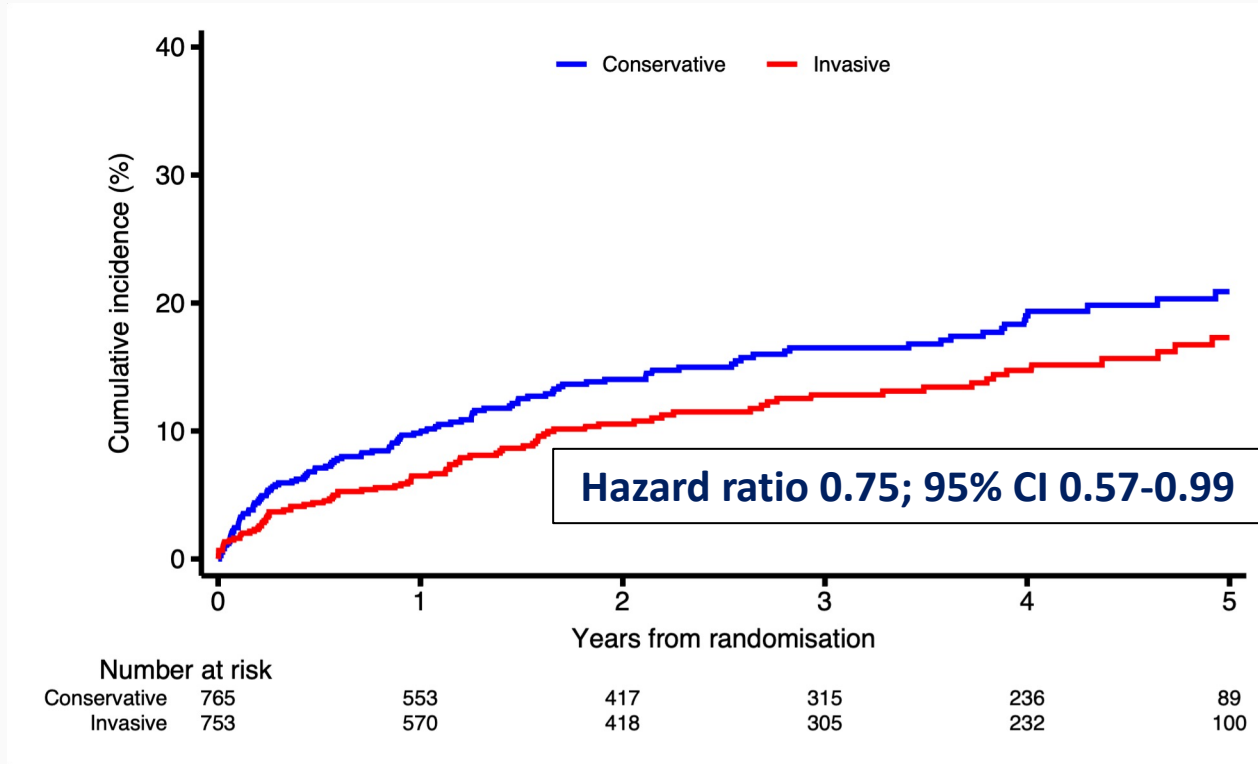
- Patients were recruited from EDs, MAU, cardiology wards, medical wards, geriatric wards at PCI and non-PCI centres
- Formal assessment of frailty, cognition, co-morbidity at baseline and follow-up

- Salient features:**
- 45% Female
  - 72% ≥80 years
  - Oldest 103 years
  - 80% Prefrail/Frail
  - 60% MoCA <26
  - Median CCI = 5

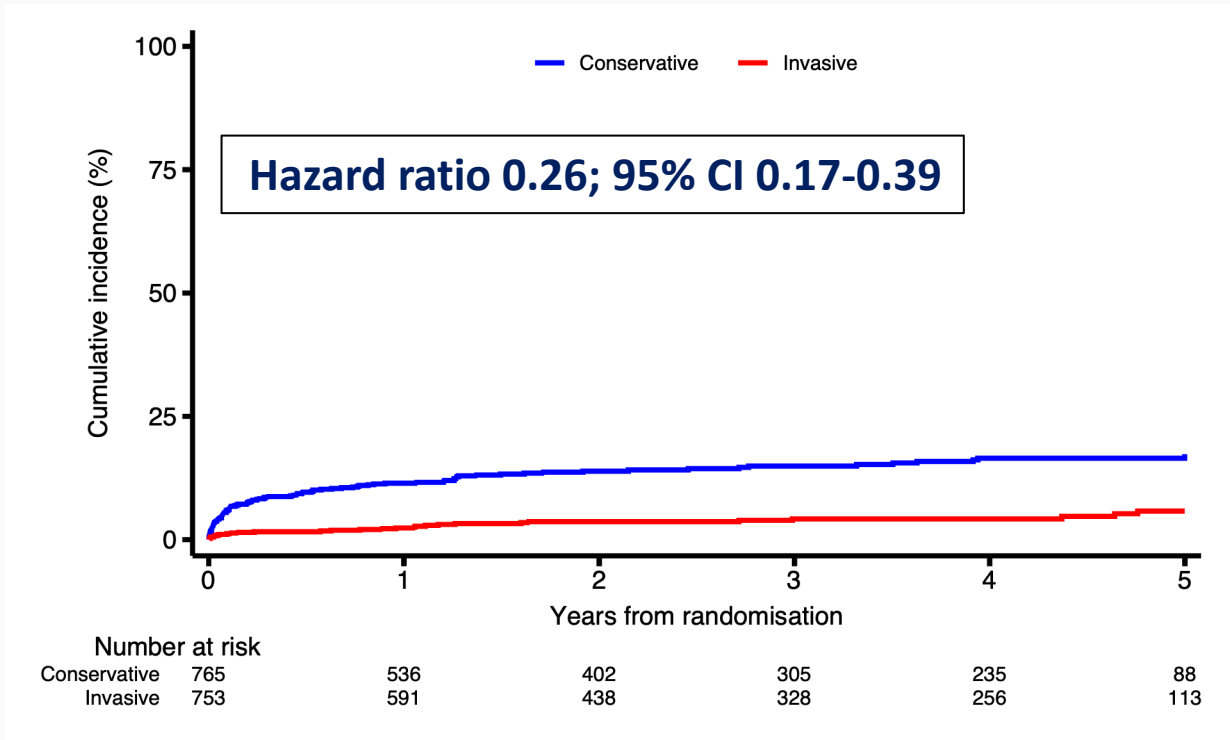
# PRIMARY OUTCOME: COMPOSITE OF CV DEATH OR NON-FATAL MI



# NON-FATAL MYOCARDIAL INFARCTION



# SUBSEQUENT REVASCULARISATION



## Key messages

- ❖ Among older adults with type I NSTEMI, an invasive strategy is safe.
- ❖ An invasive strategy did not significantly reduce the combined risk of cardiovascular death or non-fatal myocardial infarction as compared with a conservative strategy.
- ❖ Treatment with an invasive strategy did reduce the risk of non-fatal myocardial infarction and subsequent revascularization.
- ❖ The results provide a foundation for older heart attack patients and their clinicians to make an informed decision about whether to undergo invasive coronary angiography or not.