

INTRODUCTION

The proportion of patients with acute coronary syndrome (are very old is increasing. The care of the elderly patients is complex than that of younger. The older patients are a thera challenge because they are rarely included in randomized cl trials.

PURPOSE

Determine clinical presentation, therapeutic approach and in a population of octogenarians (Oct) with ACS

METHODS

- Retrospective study of 2064 patients admitted for ACS i coronary unit over a period of 4 years
- **2 groups** were defined according to age: **younger** (age < 80 years) and **Oct** (age \geq 80 years)
- Analysis of Oct according to therapeutic approach: percutaneous/surgical (n = 177) vs medical (n = 92)
- Minimal follow-up of six months

Acute coronary syndrome in elderly patients - prognostic impact of revascularization

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| ACS) who | | |
|-------------|-----|---|
| smore | | |
| rapeutic | | Demograp Age (years, Male ger |
| linical | | Medical hi Arterial h Type 2 di Dyslipide Chronic k Myocard Stroke |
| | | Clinical pro NSTEMI (Multives Creatinin Hemoglo NT-proBI LVEF < 40 |
| | - | Table 1 - LVEF = left |
| prognosis | | standard o |
| | | Beta-block ACE/ARB2 Statins (%) Aspirin (%) Clopidogre Revascular CABG (%) PCI (%) |
| | | Table 2 - ACE = ang bypass gra |
| n a | | A 16 |
| | | 14 |
| | | 12 10 |
| < 80 years) | (%) | 8 |

| | OCT (n=2064) | YOUNG (n=1795) | þ |
|-------------------------------|-----------------|-------------------|---------|
| Demographics | | | |
| Age (years, mean ± sd) | 83.9 ± 3.4 | 60.9 ± 11.4 | |
| Male gender (%) | 52.8 | 81.1 | <0.001 |
| Medical history (%) | | | |
| Arterial hypertension | 83.6 | 61.5 | <0.001 |
| Type 2 diabetes mellitus | 27.1 | 27.7 | NS |
| Dyslipidemia | 49.8 | 57.3 | 0.02 |
| Chronic kidney disease | 12.1 | 3.2 | <0.001 |
| Myocardial infarction | 21.9 | 14.0 | 0.001 |
| Stroke | 15.6 | 6.2 | <0.001 |
| Clinical presentation | | | |
| NSTEMI (%) | 51.3 | 44.8 | 0.045 |
| Multivessel disease (%) | 62.7 | 52.8 | 0.005 |
| Creatinine (mg/dl, mean ± sd) | 1.21 ± 0.48 | 1.00 ± 0.39 | <0.001 |
| Hemoglobin (g/dl, mean ± sd) | 12.6 ± 1.98 | 14.0 ± 1.76 | <0.001 |
| NT-proBNP (pg/ml, mean ± sd) | 6528 ± 8007 | 1406 ± 4908 | <0.001 |
| LVEF < 40% (%) | 46.7 | 28.8 | < 0.001 |

– Baseline patients characteristics

eft ventricular ejection fraction, NSTEMI = non ST elevation myocardial infarction, SD = deviation.

| OCT | YOUNG | р | |
|----------|---|---|--|
| (n=2064) | (n=1795) | | |
| | | | |
| 73.2 | 89.1 | < 0.001 | |
| 85.1 | 90.1 | 0.012 | |
| 95.2 | 98.8 | < 0.001 | |
| 99.3 | 99.4 | NS | |
| 95.9 | 98.7 | 0.001 | |
| 65.8 | 82.4 | < 0.001 | |
| 7.4 | 13.2 | 0.007 | |
| 58.4 | 69.2 | <0.001 | |
| | (n=2064) 73.2 85.1 95.2 99.3 95.9 65.8 7.4 | (n=2064)(n=1795)73.289.185.190.195.298.899.399.495.998.765.882.47.413.2 | |

In-hospital treatment

giotensin converting enzyme, ARB2 = angiotensin II receptor blockers, CABG = coronary artery rafting, PCI = percutaneous coronary intervention.

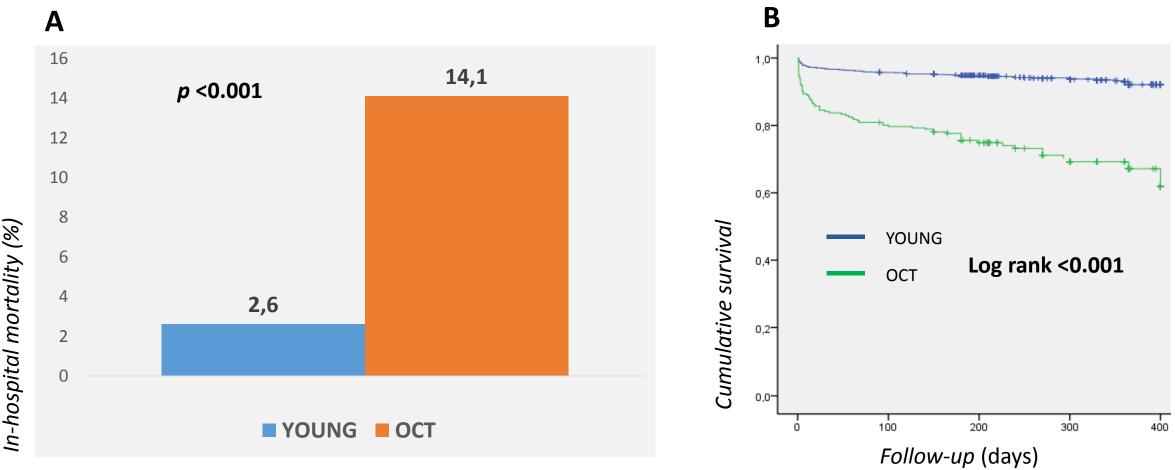


Figure 1 In-hospital mortality (A) and survival analysis by Kaplan-Meier curves, according to age (B).

In this review, the elderly had worse prognosis and were less likely to receive evidence-based therapy. Although mortality was higher in octogenarians patients under medical treatment, the absence of revascularization was not an independent predictor of mortality in this population.

RESULTS

In a sub-analysis of Oct there were no significant differences in the demographic characteristics. Myocardial infarction without ST segment elevation is more common in Oct non revascularized (73.6% vs 39.5%, *p* <0.001).

The Oct non revascularized had the highest prevalence of Killip class ≥ 2 on admission (52.7% vs) 40.1%, p = 0.049) and moderate to severe left ventricular dysfunction (56.1% vs 42%, p = 0.034).

The in-hospital mortality (22% vs 10.2%) and at 6 months (37.1% vs 25.1%) were higher in the non revascularized Oct.

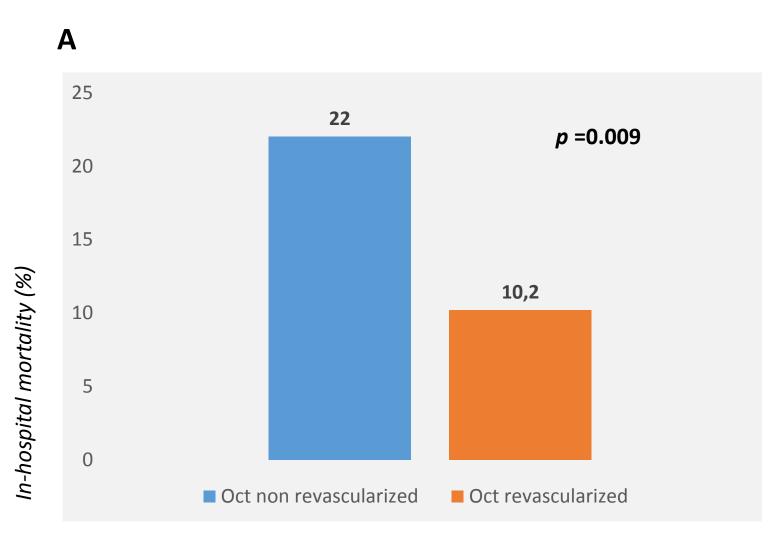
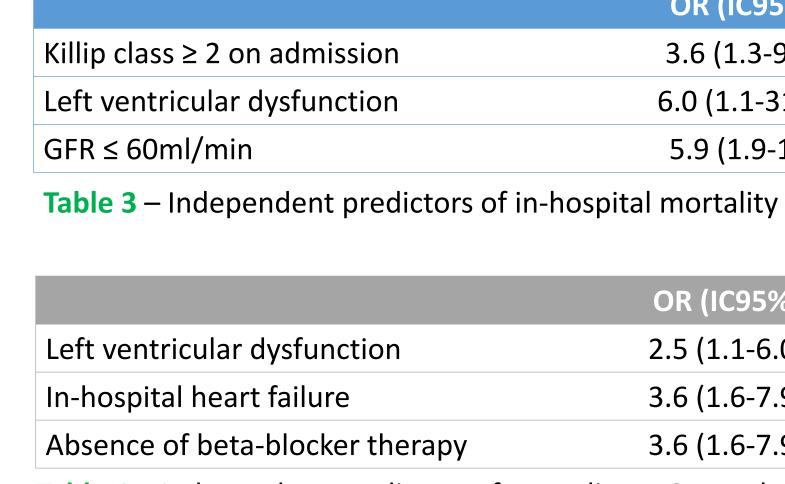


Figure 2 In-hospital mortality (A) and survival analysis by Kaplan-Meier curves, according to the therapeutic approach (B).

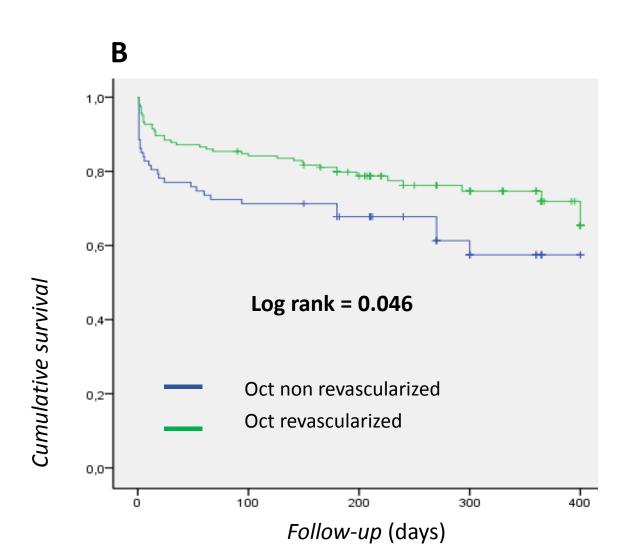
After multivariate analysis, the absence of revascularization was not a predictor of mortality.



CONCLUSION







| OR (IC95%) | |
|----------------|--|
| 3.6 (1.3-9.8) | |
| 6.0 (1.1-31.1) | |
| 5.9 (1.9-18) | |
| •• • • • •• | |

OR (IC95%) 2.5 (1.1-6.0) 3.6 (1.6-7.9) 3.6 (1.6-7.9)
 Table 4 – Independent predictors of mortality at 6 months