INSULIN RESISTANCE AND SHORT-TERM MORTALITY IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION

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PURPOSE:

Homeostasis Model Assessment (HOMA) is an index to study the role of insulin resistance (IR).

Our objective has been to clarify if IR would predict short-term mortality in patients with acute myocardial infarction (AMI).

METHODS:

- Observational prospective study in 518 patients with AMI.
- Evaluated glucose and insulin levels at baseline in order to estimate IR and mortality.
- Statistical analysis:
  - Cox regression analysis
  - Multivariable model with the Harrell’s C statistic

RESULTS:

- Sensitivity 71%
- Specificity 80%
- HOMA-IR = 2.2
- AUC: 0.71 (0.53,0.89) p=0.008

CONCLUSIONS:

Beyond traditional cardiovascular risk factors, insulin resistance, as assessed by HOMA index, seems to have a significantly important prognostic role and could help in the early stratification of patients with acute myocardial infarction.

DECLARATION OF INTEREST: The authors declare do not have conflict of interest