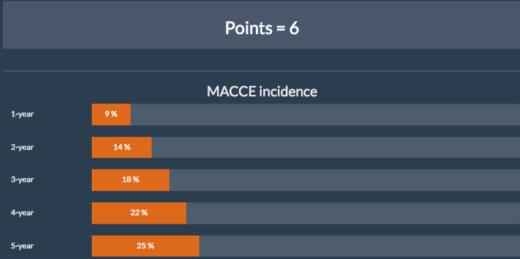


MACCE cumulative incidence for Diabetic Patients post-MI





Pen & Paper Calculation 🖍 Incidence Table 📙

The PG-HACKER registry

A cohort of 1400 diabetic patients who were admitted due to acute coronary syndrome (ACS), between Nov 2003 and Jan 2017.

They were followed for MACCE events and all-cause mortality.

Definitions:

- MACCE event: either cardiovascular mortality, new myocardial ischemia, sudden cardiac death, cerebrovascular accident or heart failure episode.
- ACS: was defined by the presence of typical clinical symptoms of chest pain and electrocardiographic changes indicative of myocardial ischemia/lesion and/or elevation of serum markers of myocardial damage [Ilbanes, 2018].
- LVEF: left ventricle ejection fraction was coded in: no dysfunction (LVEF > 51%) mild (LVEF 41-51%), moderate (LVEF 30-40%) or severe dysfunction (<30%) iLang. 2015.
- OMT: was defined as the joint implementation of these four treatments: antiplatelets, statins, betablockers and angiotensin-converter enzyme inhibitors or mineralocorticoid receptor antagonists (MRAs).

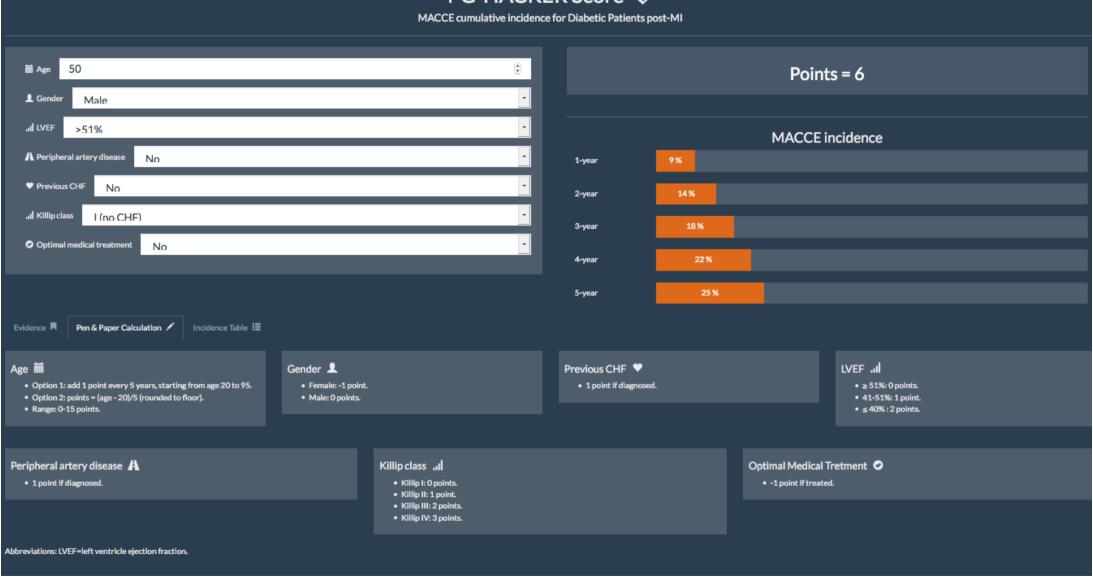
Outcomes:

- 783 patients suffered a MACCE event, from which 417 patients died.
- 143 patients died from non-cardiovascular causes.

Statistical rationale:

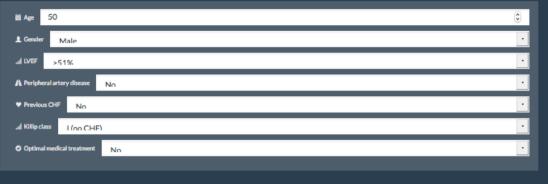
- The PG-HACKER score is based in a Fine & Gray model for competing risks.
- A competing risk (CR) is an event whose occurrence either precludes the occurrence of another event under examination or fundamentally alters the probability of occurrence of this other event.
- Kaplan-Meier methods are not suitable for modeling CRs, as they tend to overestimate incidence.
- . Fine & Gray models have use in predicting an individual's incidence of an event (MACCE), taking into account the possibility that a competing event (all-cause mortality) occurs.
- The point-based score transforms the time-to-event model into a simple set of operations, to facilitate its use in the clinical setting.

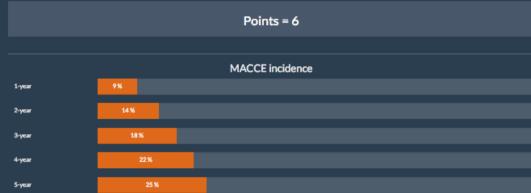






MACCE cumulative incidence for Diabetic Patients post-MI





Evidence Pen & Paper Calculation / Incidence Table

0.09 0.18 0.14 0.17 0.31 0.11 0.16 0.21 0.25 0.28 0.49 0.36 0.28 0.34 0.41 0.46 0.54 0.62 0.68 0.90 0.76 0.83 0.88 0.99 0.67

CIF: cumulative incidence function for MACCE, or expected MACCE incidence at a given timepoint.

