Acute chest pain suspicious of ACS

Inclusion criteria (all required):
1) Attending ED between 07:00-15:00
2) Ongoing chest pain or not more than 2 hours without chest pain.
3) Decision made for admission to the telemetry ward, and solely for the suspicion of ACS

Exclusion Criteria
1) Known previous myocardial infarction
2) Ischemic ECG changes:
   - ST-segment elevation ≥ 2 mm in two or more contiguous leads,
   - ST-segment depression >1 mm in two or more contiguous leads,
   - Inverted T waves (≥2 mm) in two or more contiguous leads
3) Hemodynamic instability:
   - Systolic blood pressure <100 mmHg, heart rate > 110 bpm, decreased peripheral circulation or signs of heart failure
4) Troponin T ≥ 0.05 µg/L or CKMB ≥ 5 µg/L, if these results were available at the time of inclusion
5) Pregnancy
6) Age < 30 years

Injection of Isotope in ED (n=40)
(MPI results blinded to responsible physician)

Admission to telemetry unit (n=40)
Serial Troponin T (n=40). Further investigations as decided by the responsible physician e.g. exercise test (n=20), coronary angiography (n=3)

Discharge diagnosis made by the responsible physician

6 months follow up for cardiac events (n=40)
(Medical records/ telephone interview)