culturpes lesions (60 vs. 40%, p<0.001). No differences were observed for mortality with respect to either culprit vessel (log-rank-p-value=0.54) or proximal vs. mid/distal location of the culprit lesion within the vessel (log-rank-p-value=0.45). This was also true after multivariable adjustment, independent predictors of outcome were serum lactate, success of revascularization, age, serum creatinine, prior stroke, known peripheral artery disease and left bundle branch block in admission electrocardiogram.

CONCLUSIONS: For patients with CS complicating myocardial infarction, the culprit lesion localization seems to be unrelated with mortality.

CATEGORIES CORONARY: Acute Myocardial Infarction

KEYWORDS: Cardiac shock, Culprit Vessel, Outcomes

TCT-231
Exenatide Does Not Improve Myocardial Salvage In Patients With An Acute Myocardial Infarction Successfully Treated With Primary Percutaneous Coronary Intervention: The First Results Of The EXAMI Trial

Sebastiaan Roos,1 Leo Timmers,2 Geert P. van Hout,2 Paul S. Biesbroek,1 Coronary Intervention: The First Results Of The EXAMI Trial

BACKGROUND: The Glucagon Like Peptide 1 receptor agonist exenatide is an incretin based compound used for glycemic control in patients with type 2 diabetes mellitus (DM) and has previously been demonstrated to have cardioprotective properties. This double blinded, randomized clinical trial studies the effect of exenatide treatment on myocardial salvage in ST Elevated Myocardial Infarction (STEMI) patients who successfully underwent primary Percutaneous Coronary Intervention (PCI).

METHODS: STEMI patients were randomly assigned to either intravenous exenatide or placebo. Study medication was started prior to PCI using 10 μg/h for 30 minutes followed by 0.84 μg/h for 72h. Patients with a previous STEMI, Thrombolysis in Myocardial Infarction flow 2 of 3, multi vessel disease, or DM were excluded. Magnetic resonance imaging was performed within 2-7 days after PCI, to determine left ventricular (LV) volumes and ejection fraction (EF), infarct size and area at risk (using T2-weighted hyperintensity (T2W) and late enhancement (LGE) imaging). LV myocardial salvage index (MSI) was defined as the difference between the area at risk and total infarct size, as ratio of the area at risk. Secondary endpoints were major cardiovascular events (MACE) defined as cardiac death, repeat STEMI, coronary artery bypass grafting or repeat PCI, LV end systolic volume (ESV), LV EF and infarct size.

RESULTS: In total 91 patients (age 57.4 ± 10 years, 76% male) completed the study. There were no baseline differences between both groups with respect to balloon time was 181.85 ± 201.95 min (p=0.24) for exenatide (n=42) and placebo (n=49 respectively). Patients receiving exenatide had significantly more episodes of nausea early after study drug initiation (16 vs 4 patients, p<0.001), but this did not lead to study discontinuation and was treated successfully with metoclopramide in all cases. The MSI was not significantly different between both groups (with ESA 0.30 ± 0.26 vs 0.26 ± 0.22, p=0.43) and with T2W 0.35 ± 0.25 vs 0.33 ± 0.22, p=0.65 for exenatide vs placebo respectively). There were also no differences in LV ESV (61.3 ± 26.0 vs 54.9 ± 25.9 ml/m2, p=0.259), LV EF (52.5 ± 7.7 vs. 52.4 ± 6.9%, p=0.52) and infarct size (18.8 ± 11.2 vs. 18.8 ± 11.3% of LV mass, p=0.965). No MACE occurred during the in-hospital phase.

CONCLUSIONS: Our exenatide treatment protocol does not improve myocardial salvage in STEMI patients successfully treated with primary PCI. This is incongruent with previous clinical trial results. Differences in the exenatide treatment protocols are the most obvious reason for the ambiguous trial results. Further studies are needed to establish the exact role and the optimal treatment protocol of exenatide in this group of patients.

CATEGORIES CORONARY: Acute Myocardial Infarction

TCT-232
Primary Percutaneous Coronary Intervention In Nonagenarian Patients With ST Elevation Myocardial Infarction: In-Hospital Mortality And Outcomes At One Year Follow-Up

Sebastian Reinstadler,1 Hans-Josef Feitritzinger,1 Bernhard Metzler1

1Innsbruck Medical University, Innsbruck, Austria

BACKGROUND: The left ventricular global function index (LVGFI) is a novel indicator of left ventricular performance. Its prognostic value in patients after ST-segment elevation myocardial infarction (STEMI) is unknown. We sought to evaluate the prognostic value of LVGFI measured by cardiovascular magnetic resonance (CMR) imaging after STEMI.

METHODS: Two hundred eligible STEMI patients (56±11 years, 16% female) were randomly selected in the very elderly population should be offered. Further studies are needed to evaluate the benefit of P-PCI versus non P-PCI strategy in the very elderly population.

CATEGORIES CORONARY: Acute Myocardial Infarction

KEYWORDS: Elderly, Primary percutaneous coronary intervention, Radial

TCT-233
Prognostic value of left ventricular global function index in patients after ST-segment elevation myocardial infarction

Sebastian Roos,1 Leo Timmers,2 Geert P. van Hout,2 Paul S. Biesbroek,1

1Coronary Intervention: The First Results Of The EXAMI Trial

BACKGROUND: Limited information is available about the efficacy and outcomes after primary percutaneous coronary intervention (P-PCI) in very elderly patients (pts) with ST Elevation Myocardial Infarction (STEMI).

METHODS: 23 nonagenarian pts were treated (1% of the total STEMI population underwent P-PCI). We evaluated in-hospital, 6-months and 1 year-mortality in a retrospective analysis of nonagenarian pts admitted at our Department with STEMI and treated with P-PCI from November 2004 and December 2013. A bivariate analysis was carried on with exact Fisher’s test, identifying those variables associated with mortality. Odds ratios (ORs) from univariate logistic regression analyses were performed.

RESULTS: All pts received aspirin and 300 mg clopidogrel loading dose. Mean age: 91.2 yrs (range 90-96). 65% was women. Mean left ventricular ejection fraction (LVEF) at the admission: 38.9% (23% of pts with LVEF<35%). Advanced Killip class (3-4) at presentation: 10 pts (43%). Baseline characteristics: 13% of pts with prior revascularization, 17.3% prior stroke, 21.7% diabetes, 43% hypertension, 8.6% atrial fibrillation. No dementia (good mental status). Mean renal function evaluated by creatinine clearance measured by the Cockcroft-Gault equation: 38.7 ml/min (range 16.8 - 72.9). Mean hemoglobin value: 13.7 gr/dL. Mean number of vessels treated per pts: 1.04, showing a strategy of treating the culprit vessel only. 3 left main (LM), 8 left anterior descending coronary artery (LAD), 4 circumflex coronary artery, 8 right coronary artery (RCA). The radial approach was used in 65% (100% of cases from 2012). The proportion of radial to femoral shift was 6%. An average of 1.26 stents per pt were implanted (100% were bare metal stents). In 4 pts we performed P-PCI without stent. No Glycoprotein 1b/IIa were used. Intra-aortic balloon pump was implanted in 1 pt. The TIMI flow 2-3 post P-PCI was achieved in 78.2% of pts (angiographic success was achieved in 20/23 pts). In 1 pt occurred acute renal failure post P-PCI and in 1 pt occurred major bleeding; no stroke. The overall in-hospital mortality rate was 34.7% (one pt died during the procedure).

CONCLUSIONS: Our data suggest that primary P-PCI can be achieved with an acceptable bleeding risk. The in-hospital mortality is significant but the cumulative mortality at 6 months and 1 year is low, showed a good success rate of the P-PCI strategy. The radial approach is feasible and safe. The in-hospital mortality rate is less than 5% in very elderly population should be offered. Further studies are needed to evaluate the benefit of P-PCI versus non P-PCI strategy in the very elderly population.

CATEGORIES CORONARY: Acute Myocardial Infarction

KEYWORDS: Elderly, Primary percutaneous coronary intervention, Radial