

There was no TLR at 6 month and only 2 (3.3%) at 1 year. TVR was 1 (1.6%) at 6 month with no further cases at 1 year.

Conclusions In one of the largest clinical experiences to date, the Sideguard stent can be used to treat complex bifurcation lesions in a straight forward manner, with excellent short and long term clinical outcomes.

032 LACK OF GENDER DIFFERENCE AND IMPROVED IN-HOSPITAL MORTALITY RATES IN PATIENTS WITH CARDIOGENIC SHOCK FOLLOWING PRIMARY PERCUTANEOUS CORONARY INTERVENTION: A UK TERTIARY CARDIAC CENTRE REGISTRY STUDY

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Background Despite substantial recent improvement in mortality from cardiovascular disease, due primarily to success of primary and secondary prevention strategies, it remains the leading cause of death in the developed world. Among those patients hospitalised with acute myocardial infarction (AMI), cardiogenic shock (CS) is the foremost cause of death complicating up to 10% of admissions. Introduction of early revascularisation strategies and mechanical ventricular support have seen short-term mortality due to CS fall from 70% to 80% in the 1970s to around 50%–60% in the 1990s. Previous studies suggest that women experience more CS than men (11.6% vs 8.3%) in the setting of ST elevation MI. Whether primary percutaneous coronary intervention (PPCI) for AMI has resulted in further reduction in in-hospital mortality and whether there are gender differences in outcomes due to CS is not known.

Aims The aim of this study is to determine the rate of in-hospital mortality following primary PCI in the setting of CS and examine the gender differences in the incidence of CS and the rate of in-hospital mortality.

Methods Data were collected prospectively among all patients presenting with AMI to a large UK tertiary cardiac centre and undergoing PPCI between April 2008 and October 2011.

Results In total 2866 patients (male: 2023 [70.6%] vs female: 843 [29.4%]) underwent PPCI. In total, 141/2866 (4.9%) had percutaneous coronary procedures (balloon angioplasty only or stenting) in the setting of cardiogenic shock. There were 81/2023 [4%] male patients and 60/843 [7.1%] female patients with CS undergoing PPCI. There were no significant differences in the baseline characteristics between male and female patients except female patients were older than men (male: mean age 64.1 years vs female

69.9 years, $p=0.004$). The overall unadjusted in-hospital mortality rate was 35.4% with no difference in the genders (male: 35.8% vs female: 35%, $p=0.730$).

Conclusion The present analysis demonstrates that in the PPCI era, there is reduction in the incidence of cardiogenic shock with reduced unadjusted in-hospital mortality rates following primary PCI. The unadjusted in-hospital mortality rates did not differ between the genders despite the fact that there were more women that had presented with cardiogenic shock.

033 OUT-OF-HOURS MORTALITY IN THE CURRENT PRIMARY PERCUTANEOUS CORONARY INTERVENTION ERA

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Background There is conflicting evidence to whether the outcomes of primary percutaneous coronary Intervention (PPCI) for ST-segment elevation myocardial infarction (STEMI) are as favourable out of hours as during routine working hours.

Aim To assess the impact of the time of PPCI on the mortality in STEMI. Main outcome measures: In-hospital and long-term all-cause mortality.

Method Retrospective analysis of prospectively collected data on 2571 consecutive STEMI patients treated with PPCI between March 2008 and June 2011 at a regional tertiary centre. Of these, 1036 patients (40.3%) underwent PPCI at weekdays between 08:00 and 18:00 (routine-hours group) and 1535 patients (59.7%) underwent PPCI at weekdays between 18:00 and 08:00 or at weekends (out-of-hours group).

Results Compared to the routine-hours group, the out-of-hours group had a lower mean age (62.5 ± 13.1 vs 64.1 ± 13.7 years, $p=0.001$), a lower proportion of patients with previous history of angina (18.9% vs 23.6%, $p=0.005$) and a longer call-to-hospital time. The two groups were otherwise similar in all other clinical and procedural characteristics. The overall cohort in-hospital mortality rate was 4.5%; 4.2% in the routine-hours group and 4.6% in the out-of-hours group (OR; 1.05, 95% CI 0.72 to 1.54, $p=0.794$). During a mean follow-up period of 560 days, a total of 295 patients died (11.5%). Of these, 126 were in the routine-hours group (12.2%) and 169 in the out-of-hours group (11.0%). In the multiple Cox's proportional hazards model, there was no difference in mortality between the two groups (adjusted HR; 1.09, 95% CI 0.82 to 1.46; $p=0.565$). Similarly, no difference in mortality was seen in patients, who underwent PPCI at late-night time (22:00–06:00).

Conclusions PPCI outside routine working hours is safe with no difference in outcome of in-hospital and long-term mortality in comparison to PPCI during routine-working hours.

034 THE EFFECT OF THROMBUS ASPIRATION DURING PRIMARY PERCUTANEOUS CORONARY INTERVENTION ON IN-HOSPITAL MORTALITY AND THROMBOLYSIS IN MYOCARDIAL INFARCTION FLOW GRADE

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Background Thrombus aspiration (TA) has been shown to improve Myocardial Blush Grade and ST-segment resolution in patients undergoing primary percutaneous coronary intervention (PPCI) for ST-segment elevation myocardial infarction (STEMI). However, the effect of thrombus aspiration on Thrombolysis In Myocardial Infarction (TIMI) flow grade and the survival of these patients remains uncertain.

Abstract 032 Table 1

Variables	Total n = 141/2866 (4.9%)	Male n = 81/2023 (4%)	Female n = 60/843 (7.1%)	p Value
Mean age-years (SD)	66.6 (13.7)	64.2 (12.3)	69.9 (15.0)	0.004
Hypertension (%)	60 (42.5)	32 (39.5)	28 (46.6)	0.434
Diabetes mellitus (%)	20 (14.1)	10 (12.3)	10 (16.6)	0.730
Hypercholesterolaemia (%)	42 (29.7)	22 (27.1)	20 (33.3)	0.465
Previous angina (%)	33 (23.4)	17 (20.9)	16 (26.6)	0.577
Previous myocardial infarction (%)	22 (15.65)	12 (14.8)	10 (16.6)	0.777
Previous percutaneous coronary intervention (%)	7 (4.9)	3 (3.7)	4 (6.6)	0.436
Previous coronary artery bypass graft (%)	2 (1.4)	1 (1.2)	1 (1.6)	0.832
In-hospital mortality (%)	50 (35.4)	29 (35.8)	21 (35)	0.730