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# ABSTRACTS - SCAI-ACCi2 Interventional E-Abstracts JACC March 11, 2008

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Multicenter International Experience of Unprotected Left Main Coronary Artery Percutaneous Coronary Intervention with Drug-Eluting Stents in Patients With Myocardial Infarction

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**Background:** Patients who present with myocardial infarction (MI) and unprotected left main coronary artery (ULMCA) disease represent an extremely high-risk subset of patients. ULMCA percutaneous coronary intervention (PCI) with drug-eluting stents (DES) in MI patients has not been extensively studied. In this retrospective, multicenter, international registry, we evaluated the clinical outcomes of ULMCA PCI with DES in MI patients.

**Methods:** From 2002 to 2006, 53 patients who had MI (19 ST-elevation MI and 34 non-ST-elevation MI) underwent ULMCA PCI with DES.

**Results:** The mean age was 71  $\pm$  11 years. The mean peak CPK was 1367  $\pm$  1397 U/l. Cardiogenic shock was present in 25%. Mean EuroSCORE was 10  $\pm$  8. Distal bifurcation was involved in 31 patients (58%). Sirolimus-eluting stents were implanted in 43 patients (81%). Angiographic success with TIMI 3 flow was achieved in all patients. Overall inhospital major adverse cardiac event (MACE) rate was 9%. In-hospital mortality was 8% for all patients (16% for ST-elevation MI and 3% for non-ST-elevation MI) all due to refractory cardiogenic shock. At one year, the overall MACE rate was 30%, the total mortality rate was 15%, and the cardiac mortality rate was 11%. Two patients required target vessel revascularization, both of whom had distal bifurcation involvement, and subsequently underwent bypass surgery. The definite and probable/possible stent thrombosis rates were 0% and 6%, respectively.

**Conclusions:** Patients with MI and ULMCA disease represent a very high-risk subgroup of patients who are critically ill. PCI with DES is technically feasible and appears to be a reasonable alternative to surgical revascularization for MI patients with ULMCA disease. A randomized trial would be needed to determine the ideal revascularization strategy for these patients.