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Comparison of drug-eluting stents versus bare-metal stents in large (>=3.5mm) coronary arteries with acute myocardial infarction

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Background: There are few reports on the difference of the effect between drug-eluting stents (DES) and bare-metal stents (BMS) in coronary arteries with acute myocardial infarction. Objective: We conducted a retrospective study by analyzing the date of patients in our hospital between May, 2007 and December 2013. This study compared clinical outcome in large (>=3.5) coronary arteries with Acute myocardial infarction.

Method: 295 patients with AMI were treated with drug-eluting stents (D group: 62 lesions) or bare-metal stent (B group: 233esion) implantation and we followed up after 12 month. The primary endpoint were target lesion revascularization (TLR)

Results: There are no significant difference between two groups about baseline clinical and lesion characteristics. Results: At 1 year, the rates of target lesion revascularization (TLR) were not statistically different (D group: 3.2%, B group: 7.3%). Binary restenosis were statistically different (D group: 3.2%, B group: 11.6%, P=0.001). There were no significant differences about all cause death and stent thrombosis.

Conclusion: There were no difference the rate of TLR and mortality compared with DES.