

Stent Expansion after Predilatation by a New Scoring Balloon (AngioSculpt) : A Comparison between Drug-eluting Stent and Bare-metal Stent

¹Kawasaki medical school

Tetsuo Tsuchiya¹, Hiroyuki Okura¹, Akihiro Hayashida¹, Youji Neishi¹, Kiyoshi Yoshida¹

Background: Stent expansion may be improved after predilatation by a new scoring balloon (AngioSculpt). Objective: The aim of this study was to compare stent expansion after predilatation by AngioSculpt between drug-eluting stent (DES) and bare-metal stent (BMS). Methods: A total of 30 de novo coronary lesions from 30 patients with ischemic heart disease were enrolled and studied. Predilatation was performed using AngioSculpt in all patients. After stent implantation (24DES and 6 BMS), intravascular ultrasound (IVUS) was performed to assess stent expansion. Stent expansion was evaluated by either MSD/expected stent diameter or MSA/expected stent area by each manufacture's compliance chart. Results: Stent expansion [MSD/expected stent diameter x 100 (%), MSA/expected stent area x 100 (%)] did not differ between DES and BMS (Figure). Conclusion: Stent expansion after predilatation by AngioSculpt was not affected by the type of stent.

