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Retrospective comparison of the angiographic outcomes after elective placements of TAXUS Express and TAXUS Liberte to de novo native stenosis

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We retrospectively compared the angiographic outcomes after placement of TAXUS (Liberte) and TAXUS (Express) to the de novo coronary stenosis, because the impact of revising the platform of TAXUS stent on the angiographic outcome was not fully understood. The incidences of clinical severe cardiac events were within a few percentages during approximately 2 years in both groups (n=586 lesions in TAXUS (Express) and n=484 in TAXUS (Liberte) group). As shown in the Table, although the pre- and post-procedural QCA data were similar in the both groups, the incidences of severe and moderate in-stent restenosis in the TAXUS (Liberte) group were significantly lower than those in the TAXUS (Express) group (p < 0.05, < 0.05, respectively). Thus, the present historical and retrospective examination showed that the stent platform plays the key role for the angiographic outcomes by improving the drug diffusion to the vessel.

Baseline and angiographic outcomes after TAXUS Express and TAXUS Liberte placements to de novo native stenosis

number	PES (Exp) 485	PES (Lib.) 378
Malesex (%)	82.5	80.4
Diabetes (%)	43.9	40.7
insulin (%)	5.2	5.3
Hemodialysis (%)	1.4	3.2
Previous CABG (%)	6.4	4.5
LAD(%)	35.7	39.2
RCA (%)	30.9	31.2
Moderate*severe calcification (%)	12.4	18.2
RCA ostium (%)	1.2	1.9
LCx ostium (fe)	4.7	5.3
Side branch stenting (%)	6.6	7.7
Stent Number	1.34 ± 0.61	1.32 ± 0.59
Balloon Diameter (mm)	3.10 ± 0.45 *	3.22 ± 0.41
Stant Length (mm)	32.1 ± 18.1	33.8 ± 18.
Pressure (stm)	18.0 ± 5.1	18.0 ± 3.0
Pre-procedural		
Minimal lumen diameter (MLD) (mm)	1.1 ± 0.44	1.0 ± 0.38
% diameter stenosis (%DS)	61.2 ± 13.9	61.8 ± 13.1
Post-procedural		
Minimal lumen diameter (mm)	2.54 ± 0.45	2.54 ± 0.45
% diameter stenosis	12.0 ± 8.9	11.2 ± 8.6
Reference diameter (mm)	2.91 ± 0.56	2.89 ± 0.57
Followed-up		
Minimal lumen diameter (mm)	2.06 ± 0.73	2.12 ± 0.59
% diameter stenosis	29.0 ± 20.2	24.9 ± 15.8
Reference diameter (mm)	2.89 ± 0.61	2.83 ± 0.53
Late luminal loss (mm)	0.47 ± 0.68	0.45 ± 0.59
Acute gain (mm)	1.47 ± 0.49	1.52 ± 0.44
Severe restenosis (%DS > 70) (%)	5.2 *	1.3
Binery restenosis (%DS > 50) (%)	16.3 *	9.5

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