

1 SUPPLEMENTARY MATERIAL

2 Supplementary Table 1. Main ongoing RCT on DCB in T2DM in different clinical settings.

3 Legend: BMS-ISR: in-stent restenosis of bare-metal stent; DCB: drug-coated balloon; DES: drug-eluting stent; DES-ISR: in-stent restenosis of drug-
4 eluting stent; DS%: diameter stenosis; EES: everolimus-eluting stent LLL: late lumen loss; MACE: major adverse cardiovascular events; MLA:
5 minimal lumen area; MLD: minimal lumen diameter; NACE: net adverse cardiovascular events; PCB: paclitaxel-coated balloon; POBA: plain old
6 balloon angioplasty; SB: side branch; SCB: sirolimus-coated balloon; SVD: small vessel disease; TL: target lesion; TLR: target lesion
7 revascularization; TVF: target vessel failure; TVR: target vessel revascularization; US: united states; ZES: zotarolimus-eluting stent.

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Study	Location	Setting	Diabetic patients	Treatment	Control	Sample size	Outcome	Follow-up, months	Status
In-stent restenosis									
ISAR-DESIRE 5 (NCT05544864)	Germany, Spain	DES-ISR stratified into heterogeneous or homogeneous neointima assessed by OCT	Included	DCB	Xiience DES	376	Primary: MACE Secondary: TLF	24	Recruiting
MAGICAL ISR (NCT05908331)	US	DES-ISR Length: ≤36.0 mm	Included	MagicTouch SCB	POBA	492	Primary: TLF Secondary: MACE	12	Recruiting
SELUTION4ISR (NCT04280029)	US, Europe	BMS-ISR and DES-ISR	Included	Selution SCB	POBA or DES (ZES or EES)	418	Primary: TLF Secondary: in-segment MLD	12	Completed
SVD									
MAGICAL-SV (NCT06271590)	US	Diameter: ≤2.75 mm	Included	MagicTouch SCB	DES (ZES or EES)	1065	Primary : TLF	12	Recruiting
TRANSFORM II (NCT04893291)	Europe, Bngladesh	Diameter: >2.0 mm and ≤3.5 mm Length: 50 mm.	Included	MagicTouch SCB	DES (EES)	1820	Primary : TLF Co-primary : NACE	12	Completed
SELUTION 4 De novo Small Vessel IDE (NCT05946629)	US	Diameter: 2.00-2.75 mm	Included	Selution SCB	Any DES	910	Primary: TLF	12	Recruiting
AGENT Japan SV (NCT04058990)	Japan	Diameter : ≥2.00 mm and <3.00 mm. Length: ≤28 mm	Included	Agent PCB	Sequent Please PCB	180	Primary: TLF	6	Not recruiting
A Safety and Efficacy Study of Dissolve in Treatment of Coronary Small	China	Diameter : ≥2.25 mm and <2.75 mm. Length: ≤26 mm	Included	Dissolve PCB	Resolute Integrity ZES	277	Primary : in-segment %DS Secondary : device success	9	Completed

Vessel Disease (NCT03376646)									
Long lesions									
Comparison of Safety and Efficacy of Coronary DCB Combined with Spot Stenting of DES Versus Second-generation DES for Treating Diffuse Coronary Artery Lesion (NCT03589157)	China	Diameter : ≥ 2.5 mm and < 4.0 mm. Length: > 25 mm	Included	Any DCB	Any DES	140	Primary: LLL	9	Unknown
Large vessels									
DCB-LVD (NCT05550233)	China	Diameter : 3.0-4.0 mm	Included	Any DCB	Any DES	240	Primary: LLL Secondary: TLF	12	Unkwnon status
CAGE-FREE III (NCT05209412)	China	Diameter: 2.5-4.0 mm Length of a single lesion ≤ 35 mm; total treated lesion ≤ 60 mm;	Included	Lepu PCB	Resolute Integrity ZES	370	Primary: FFR Secondary: LLL	12	Not recruiting
REVERSE (NCT05846893)	Asia	Diameter : ≥ 3.0 mm	Included; pre-specified subgroup analysis according to DM status	Sequent Please PCB	Any DES	1436	Primary: NACE	12	Recruiting
LARGE ONE (NCT05961787)	China	Diameter : 3.0-4.0 mm. Length: ≤ 35 mm	Included	Sequent Please PCB	Firehawk DES	134	Primary: LLL Secondary: TLF	13	Recruiting
Bifurcations									
Bingo Drug-eluting Balloon Versus a Drug-eluting Stent for Coronary Bifurcation Lesions (NCT06441539)	China	Diameter MB: ≥ 2.5 mm and < 4.0 mm. Length MB: < 30 mm Diameter MB: ≥ 2.0 mm. Length MB: < 20 mm	Included	Bingo PCB in both MB and SB	XiencE EES in MB, POB or DES in SB	218	Primary: in-segment LLL	9	Not yet recruiting
BJDCB-BIF (NCT03223974)	China	Diameter MB: ≥ 2.5 mm and < 3.5 mm. Length MB: < 30 mm Diameter MB: 2.0-3.0 mm. Length MB: < 22 mm	Included	PCB in both MB and SB	DES in MB	80	Primary: LLL and MLD	9	Completed

Hybrid DEB (NCT05731687)	Netherlands	MB nd SB diameter ≥ 2.5mm	Included	MagicTouch SCB in SB	Two-stent strategy	500	Primary: MACE	12	Recruiting
ACS									
COPERNICAN (NCT06353594)	Spain	STEMI (excluded CS)	Included	Any DCB on culprit lesion	Any DES	1272	Primary: TLF	12	Recruiting
DCB versus DES in the Treatment of Coronary Artery Lesions in STEMI Patients in De Novo Coronary Lesions (NCT04072081)	China	Diameter : 2.5-3.5 mm. Length: ≤28 mm	Included	Any DCB	Any DES	4000	Primary: LLL	9	Unknown
HBR									
PREPARE-NSE (NCT03817801)	China	HBR	Included	NSE (Goodman) predilation + DCB (Sequent Please) treatment	NC balloon predilation + DCB (Sequent Please) treatment	60	Primary: MLA Secondary: bailout DES rate	6	Completed
De novo all-comers									
DCBinT2DM (NCT07009938)	China	Diameter: 2.0-4.0 mm Length: ≤40 mm	100%	Any DCB	Any DES	1000	Primary: TL DS% Secondary: MACE	12	Not yet recruiting
SELUTION DeNovo (NCT04859985)	Europe	Diameter: 2.0-5.0 mm	Included	Selution SCB (+ provisional DES)	Systematic DES	3326	Primary : TVF	12 and 60	Completed
FADDY (NCT03452904)	China	Diameter : 2.5 mm to 3.5 mm Length: <28 mm	Included	Any DCB	Any DES	80	Primary: FFR Secondary: LLL	9	Unknown
UNIQUE-DCB-I (NCT04104854)	China	QFR: <0.8	Included	Any DCB	Any DES	220	Primary : LLL	12	Not yet recruiting