# FFR-Guided DCB-Angioplasty

Study summaries SeQuent® Please / NEO Not randomized controlled trials & observational studies



#### FFR-Guided DCB-Angioplasty

# SeQuent® Please and DES (ZES/EES/BMS) in de novo lesions

Fractional flow reserve-guided paclitaxel-coated balloon treatment for de novo coronary lesions

Shin E et al. Catheter. Cardiovasc. Interv. 2016; 88(2): 193-200

# Key findings

FFR-guided DCB treatment with SeQuent® Please is safe and effective in de novo lesions. MLD was comparable in the DCB and DES group at 9-month follow-up, and LLL was significantly lower in the DCB group.

# Description

**Design:** Open-label | Prospective | Single center

Indication: De novo

Main patient inclusion criterion: Reference vessel

diameter ≤ 3.5 mm, ≥ 2.5 mm

### **Endpoints:**

- LLL @ 9-month follow-up
- FFR @ 9-month follow-up
- MI @ 12-month follow-up

#### **DAPT**:

DCB-only: 1.5 months

■ BMS: ≥ 6 months

■ DES: ≥ 12 months

**Additional information:** Method of treatment was determined through FFR measurements

■ FFR ≥ 0.85: DCB angioplasty

■ FFR < 0.85: Stent implantation

# Results

**Patients:** 67 lesions were included in this trial due to successful lesion preparation and FFR. All patients with FFR ≥ 0.85 and some additional lesions with FFR ≤ 0.85 were treated with a DCB, in total 45 lesions (67.2 %). Lesions with FFR ≤ 0.85 were chosen for DCB angioplasty if measurements were close to the limit or patients were not able to receive long-term DAPT. The remaining 22 lesions (32.8 %) with FFR ≤ 0.85 were treated with a stent.

**Baseline characteristics:** The two treatment groups were well balanced, there were no statistically significant

differences between the groups.

## **Endpoints:**

	DCB n = 45	DES n = 22	p-value
9-month follow-up			
LLL	0.05 ± 0.27 mm	0.40 ± 0.54 mm	0.022
FFR	0.85 ± 0.08	0.85 ± 0.05	0.973
12-month follow-up			
MI	0 patients	1 patient	-
TLR	0 patients	1 patient	-

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<sup>[1]</sup> Cutlip D et al. Circulation 2007; 115: 2344-51.