

5-Year Results of RCT Comparing SurVeil™ DCBs (Surmodics) With IN.PACT DCBs (Medtronic) For Treating Fempop Lesions: the TRANSCEND Trial

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Peter A. Schneider Disclosures

Consulting:
 Surmodics, Medtronic, Boston Scientific, Phillips, Cagent, Acotec, Abbott, Endologix, Shockwave, Silk Road, Healthcare Inroads, Inari, BD

SURVEIL™ Next Generation DCB

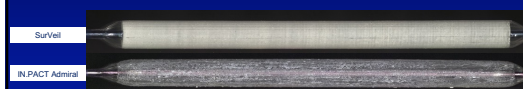
Next-generation DCB – Intent

- Higher Efficacy: Develop a device that improves the therapeutic window by achieving outcomes equivalent to high-dose technologies and with lower potential for complications.
- Lower Dose: Technology goal was a lower Paclitaxel drug dose of 2.0 µg/mm², more uniform drug distribution, better efficiency of drug transfer, and fewer downstream emboli.
- Comparable Clinical Results: To demonstrate this with a well-designed, well conducted head-to-head pivotal trial versus a high-dose device



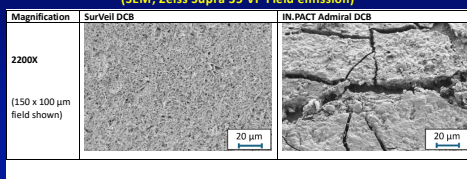
THESIS: If a DCB can achieve similar clinical outcomes with a lower dose of drug as demonstrated in a head-to-head RCT then it would advance the state of the art and could provide a better therapeutic choice

SurVeil DCB vs IN.PACT Admiral Balloon Design (optical microscopy)



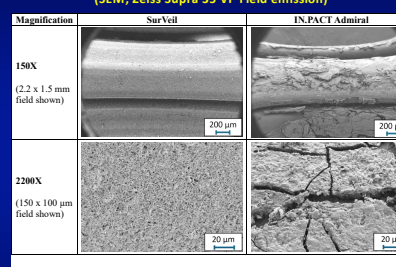
- Images showing uniform paclitaxel crystal structure of SurVeil DCB (top)
 - All balloons were 6x80mm and inflated to 6 atm
 - All balloons imaged at same 10X magnification

SurVeil vs IN.PACT Admiral Balloon Coating on a 6x80 mm balloon (SEM; Zeiss Supra 35 VP Field emission)



- SEM images showing uniform paclitaxel crystal structure of SurVeil DCB (left)
 - All balloons were 6x80mm and inflated to 6 atm
 - All balloons imaged at same 2,200X magnification


SurVeil vs IN.PACT Admiral Balloon Coating on a 6x80 mm balloon (SEM; Zeiss Supra 35 VP Field emission)



- SEM images showing uniform paclitaxel crystal structure of SurVeil DCB (left)
 - All balloons imaged at same 150X and 2,200X magnification

TRANSCEND Trial Overview

- Prospective, multicenter, international, randomized, single-blind trial of Surveil™ DCB versus IN.PACT® Admiral® DCB (1:1)
- 446 subjects randomized
 - Surveil™ DCB (N=222) & IN.PACT ADMIRAL DCB (N=224)
 - Follow-up through 60 months
- Independent / blinded: DUS and Angiographic Core Labs, Clinical Events Committee
- Hypotheses test: Non-inferiority (15% NI Margin for efficacy and 10% for safety)
 - Sensitivity Analysis-Complete Case
 - Primary Analysis-Multiple Imputation



GLOBAL SITE PARTICIPATION

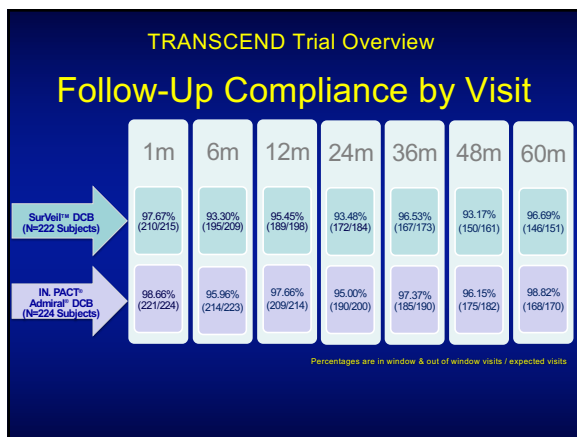
US Sites – 52 (N=290)
International Sites – 13 (N=156)

PRINCIPAL INVESTIGATORS
Kenneth Rosenfield, MD
Marianne Brodmann, MD
William Gray, MD
TRIAL DESIGN, BIOSTATISTICS, DSMB, CEC
Barn Institute
TRIAL OPERATIONS
Medpass/ICON and Mobis (OUS); Surmodics (US)

TRANSCEND Trial Overview

KEY ELIGIBILITY AND PRIMARY ENDPOINTS

- KEY ELIGIBILITY**
 - Target limb Rutherford Class 2, 3, or 4
 - De Novo or non-stented restenotic lesion
 - Target lesion: length ≤ 180 mm; diameter ≥ 4mm & ≤ 7mm; stenosis ≥ 70% by visual estimate
- PRIMARY SAFETY ENDPOINT (COMPOSITE)**
 - Freedom from device- and procedure-related death through 30 days post-index procedure
 - Freedom from major target limb amputation (above the ankle)
 - Clinically-driven target vessel revascularization (CD-TVR) through 12 months post-index procedure
- PRIMARY EFFICACY (PRIMARY PATENCY COMPOSITE)**
 - Freedom from clinically-driven target lesion revascularization (CD-TLR)
 - Binary restenosis through 12 months post-index procedure



TRANSCEND Trial

Baseline Demographics And Lesion Characteristics (ITT)

	SURVEIL DCB™ N = 222 subjects	IN.PACT™ N = 224 Subjects	P-value
Age (yrs)	68.7 ± 9.4 (222)	67.4 ± 9.3 (224)	0.136
Male	62.6% (139/222)	63.4% (142/224)	0.922
Rutherford Class ^a			0.913
2	21.6% (48/222)	34.4% (77/224)	
3	75.7% (168/222)	61.2% (137/224)	
4	2.7% (6/222)	4.5% (10/224)	
Lesion length (mm) ^b	72.5 ± 48.4 (221)	70.0 ± 50.5 (223)	0.597
Minimum Lumen Diameter (mm) ^c	1.4 ± 1.1 (221)	1.3 ± 1.0 (223)	0.106
Reference Vessel Diameter (mm) ^d	5.3 ± 0.9 (221)	5.3 ± 0.7 (223)	0.842
% Diameter stenosis ^e	72.9 ± 18.8 (221)	75.8 ± 18.1 (223)	0.102

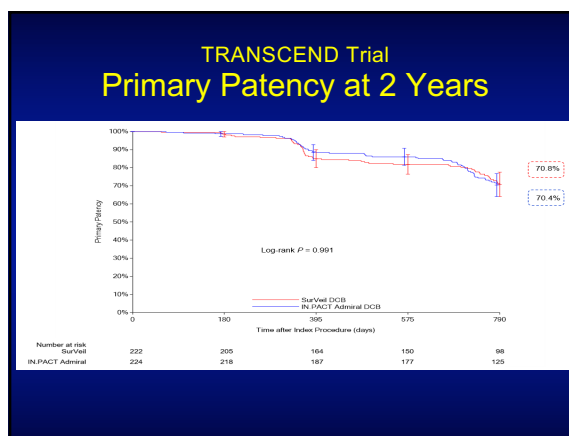
^a Data reported as %
^b Data reported as mean (SD) (N) (n/N)
^c Data reported as mean (SD) (N) (n/N)
^d Data reported as mean (SD) (N) (n/N)
^e Data reported as mean (SD) (N) (n/N)

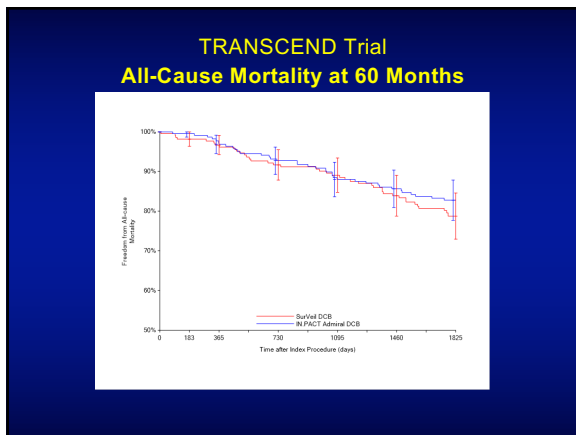
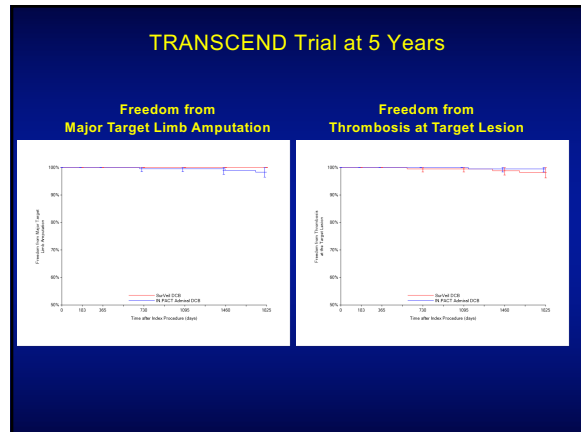
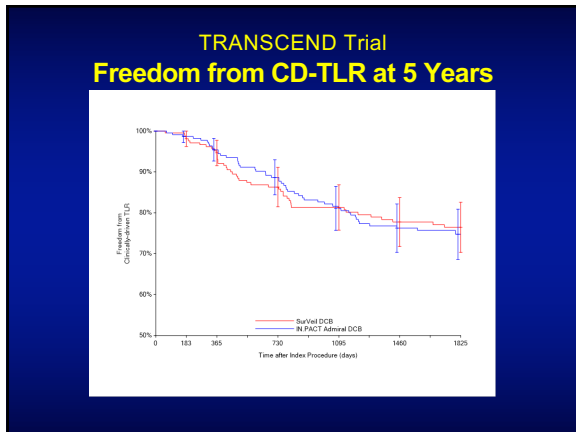
TRANSCEND Trial

Procedural Characteristics

	SURVEIL DCB™ N = 222 subjects	IN.PACT™ N = 224 Subjects	P-value
Stenosis (%)			
After Pre-Dilatation ¹	29.5 ± 15.2 (212)	31.2 ± 16.0 (218)	0.280
After DCB deployment ²	20.3±10.4 (215)	19.9±10.1 (220)	0.728
Final ²	18.7 ± 9.6 (217)	18.9 ± 9.3 (223)	0.875
Max Inflation Pressure (atm) ³	8.3 ± 2.4	9.2 ± 2.4	<0.001
Inflation Duration (sec) ⁴	183.3 ± 64.4	185.5 ± 63.6	0.686
Final MLD (mm) ⁵	4.3 ± 0.8 (217)	4.3 ± 0.7 (223)	0.604
Dissection (≥ Grade C) (Post Procedure) ⁶	19.5% (42/215)	13.6% (30/220)	0.181
% of subjects requiring Post dilatation	18.0% (40/222)	17.4% (39/224)	0.902
% of subjects with Balloon stenting	8.1% (18/222)	6.7% (15/224)	0.592

¹ Data reported as mean (SD) (N) (n/N)
² Data reported as mean (SD) (N) (n/N)
³ Data reported as mean (SD) (N) (n/N)
⁴ Data reported as mean (SD) (N) (n/N)
⁵ Data reported as mean (SD) (N) (n/N)
⁶ Data reported as % (N) (n/N)





TRANSCEND Trial at 5 Years Conclusions

- SurVeil™ DCB demonstrated excellent efficacy and safety in a head-to-head pivotal RCT;
 - sustained durability of safety and efficacy endpoints,
 - comparable efficacy and safety at lower dose.
- The TRANSCEND RCT comparing the low-dose SurVeil™ DCB against the IN.PACT® Admiral DCB demonstrated non-inferiority in safety and efficacy at 12 and 24 months and continues to demonstrate comparable safety and efficacy at 60 months.

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