CATCH TRIAL

Coil **A**pplication **T**rial in **CH**ina (ClinicalTrials.gov Identifier: NCT02990156)

- Prospective, multi-center, randomized controlled trial for premarket approval.
- 336 patients enrolled and allocated to control arm and Numen[™] arm.
- 10 centers enrolled.

SAFETY & EFFICACY







OBJECTIVES

RESULTS

• Achieved 91.2% successful occlusion rate and 60.3% complete occlusion rate at 6 month follow-up.

CONCLUSIONS

CASE 1 Packing density: 61%





A 68-year-old female presented with a ruptured MicroFill: 10×40, 8×30 right P-Com aneurysm. MicroFinish: 8×35, The wideneck aneurysm $5 \times 20, 5 \times 20, 4 \times 10,$ measured 7.3×9.5mm. 4×10, 4×10, 3×10



MicroFrame: 12×29 6 Month follow-up shows complete neck coverage and complete occlusion of aneurysm. Enterprise: 4.5×22





MicroFinish: 4×8. 2×6. A 80-year-old female 1.5×3 presented with a ruptured right P-Com MicroFill: 2×6, 2×6 aneurysm. The wide-neck aneurysm measured 4.5×3.5mm.



complete occlusion of aneurysm and P-Com patency.

Ω / Ω MicroFrame						
Product Catalog Number	Coil diameter (mm)	Coil length (cm)	Primary Coil OD (inch)			
3D0406FR		6				
3D0408FR		8				
3D0410FR	4	10				
3D0415FR		15				
3D4H08FR		8				
3D4H10FR		10				
3D4H14FR	4.5	14				
3D4H18FR		18				
3D0508FR		8	0.012 inch			
3D0510FR	-	10				
3D0515FR	5	15				
3D0520FR		20				
3D0610FR		10				
3D0615FR	6	15	-			
3D0620FR	ь	20				
3D0625FR		25				
3D0712FR		12				
3D0718FR	-	18				
3D0724FR	ſ	24				
3D0730FR		30	1			
3D0815FR		15				
3D0820FR		20				
3D0826FR	8	26				
3D0835FR		35	0.012			
3D0916FR		16	0.013 inch			
3D0922FR	0	22				
3D0928FR	9	28				
3D0935FR		35				
3D1020FR		20	1			
3D1026FR	10	26				
3D1032FR	10	32				
3D1040FR		40				
3D1127FR	11	27				
3D1132FR	11	32				
3D1229FR	12	29				
3D1234FR	12	34				
3D1332FR	12	32				
3D1337FR	15	37				
3D1435FR	14	35				
3D1441FR	14	41				
3D1538FR	15	38				
3D1543FR	15	43	0.014 inch			
3D1640FR	16	40	0.01411011			
3D1646FR	10	46				
3D1844FR	18	44				
3D1851FR	10	51				
3D2050FR	20	50				
3D2058FR	20	58				
3D2256FR	22	56				
3D2264FR	22	64	-			
3D2461FR	24	61				
3D2470FR	24	70				

MicroFill

LD1H02HL

LD1H03HL 1D1H04HL

D0201HL

1D0202HL 1D0203HL D0204HI

1D0206HI

1D2H03HL 1D2H04HL

LD2H06HL D2H08H 1D0304HI D0306HL 1D0308HL

1D0310HL 1D0315HL 2.5

LD3H04HI LD3H06HL 1D3H08HL 1D3H10HL LD3H15H 1D0406HI 1D0408HI 1D0410HL D0415HI 1D0506HL 1D0508HL 1D0510HL 1D0515HL 1D0520HL 1D0525HI 1D0606HI D0608HI D0610HL 1D0615HI 6 1D0620HL 1D0625HI 1D0630HL 1D0715HL 1D0720HL 1D0730HL 1D0740H 1D0820HL 8 D0840H 1D0930HL 1D0940HL 9 1D1030HI 10 D1240HL 12 1D1250HL

INDICATIONS FOR USE:

http://medneurotech.com/en/indexen

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string as the proportion of subjects with a Raymond score of Raymond I or Raymond II, i.e., aneurysm occlusion degra gran on-line system available at www.angiocalc.com. as the promotion of subjects www.angiocalc.com.



NumenFR™

Description	Product Catalog Numbe
NumenFR™ detachment system	E101

MicroPort NeuroTech

VERSATILITY



VERSATILITY				
Comprehensive portfolios offer optimal coils in all stages during coil embolization procedure.		FRAMING	FILLING	FINISHING
	MicroFrame MicroFill	•	•	
	MicroFinish	•		•

SHAPE

Ω+S structure is designed to achieve **uniform distribution and robust neck coverage**.



First 1.5 loop minimizes the risk of coil protrusion.



Step 2 Ω shape provides

predictable and stable basket.

CONFORMABILITY

Conform to various aneurysm morphologies and pack remnant spaces with exceptional conformability.



Saccular Aneurysm



Aneurysm with daughter sac

Bilobed Aneurysm

Step 3

S shape allows subse-

quent loops to pack

open spaces.

SOFTNESS*

High-level coil softness ensures stable, low forces against the aneurysm wall.





*Data on file

COIL DESIGN





STABILITY



Double suture

MicroFill 1mm-3.5mm MicroFinish 1mm-8mm MicroFill 4mm-20mm MicroFrame 4mm-24mm

BALANCE

Two types of stretch resistance design to ensure the balance between robust

VARIETY

Numen[™] coil offers ⁸ grades of softness by combining **7** filament wire diameters with **4** coil primary diameters. Softness design is based on the theory of coil stiffness (k-factor theoretically represents for coil softness).

(Filament Wire Diameter)⁴

(Number of turns per unit length)X(Primary Coil Diameter)

• **Primary Coil Diameter** Range: 0.010inch-0.014inch

Filament Wire Diameter Range: 0.00125inch-0.00350inch

DELIVERY WIRE DESIGN

SMOOTHNESS

Flexible area

RESULTS ON PUSHABILITY

75 100 125 150 175

Support area

Junction zone between coil and delivery wire greatly affects the microcatheter stability during the coiling procedure. Numen[™] coil has very **short junction zone** which provides stable filling and safe finishing with less kickback.



CONVENIENCE

The raised fluoro-saver marker provides tactile feedback, designed to reduce radiation exposure time for patients and physicians.



Delivery wire length(cm)

Combination area

50

RELIABILITY

NumenFR[™] detachment system

ment with real-time feedback and ergonomic

