

Innovative Experience with Everolimus.





New Dimensions of Hybrid Design



Optimal balance of Radial strength, low Strut Thickness & Radio opacity



Bio-compatible polymer combination (PLLA & PDLG)

- Intelligent engineering in Platform Design to reduce edge effect
- Optimum blend of Biodegradable Polymers for Natural Safety
- Controlled navigation on difficult anatomy by merit of Delivery System and Platform design





Espalier's Platform - technology deployed for medical challenges

Espalier's platform is engineering marvel with unique features to make navigation of the stent easy and safe even through Challenging anatomy. It has a unmet combination of radial strength, ease of side branch access, vessel support and flexibility.

Hybrid Cell Design -

Espalier has CE marked Hybrid cell design that has close cells at the end and open cells in middle. No. of Crowns 8



S-shaped links optimizes radial strength and metal to artery ratio for vessel support and provides better arterial support.

Radial strength > 1.6N



Innovative hybrid design of Espalier ensures inflation pressure of the balloon is distributed evenly with uniform stent expansion.

This reduces the "edge effect" of the stent.

Excellent side branch access -

S-Link at every third crest in the middle segment will ensure wide opening for hardware to pass through in side branch

Low Bending stiffness (High flexibility) -

Attribute to the stent design and delivery system properties.

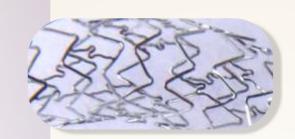
The stent is highly flexible and easy to navigate in difficult anatomies.

Arc Subscription angle 30°

Material	L605 CoCr			
Crimped (Crossing) profile	< 1 mm			
Strut thickness of coated strut	0.075 mm			
Radial strength	> 1.6 N			
Elastic Recoil	< 5%			
Foreshortening	< 0.25%			
Ferromagnetism	Non ferromagnetic			
Radio-opacity of struts	High			









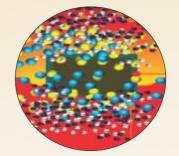




- Unique Coating with LMSC Technique LMSC Technique ensures uniform coating throughout the stent length from proximal to distal resulting in uniform drug distribution to address edge injuries.
- Ultra-Thin uniform coating Espalier has uniform thin polymer coating of <5 microns.
 Espalier has metallic struts thinly coated without compromising on integrity of coating while crimping and expansion.
- New generation coating Optimum blend of Biodegradable Polymers
 Espalier has optimum proportion of PLLA and PDLG on the drug delivery system.
- "From Thin Polymer to No polymer" in natural way:

 Degraded polymer monomers completely catabolize into carbon dioxide and water shortly following complete elution of drug from the stent within in about 45 days of implantation, confidence of safety profile of a metal stent is resumed.
- Unique Crimping Technoloy Stepless crimping at proximal & distal end ensures smooth entry in to tight lesion.





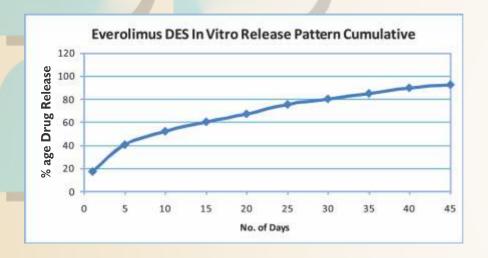
Strength of stalwart Drug - Everolimus



Everolimus is an effective immunosuppressant and most frequently used hence most proven drug from limus group. Espalier choses to deliver Everolimus through an optimum blend of biodegradable polymers to make its elution a phenomenal process in controlling restenosis.

At the cellular level, Everolimus inhibits growth factor-stimulated cell proliferation. At the molecular level, Everolimus forms a complex with the cytoplasmic protein FKBP-12 (FK 506 Binding Protein). This complex binds to and interferes with FRAP (FKBP-12 Rapamycin Associated Protein), also known as mTOR (mammalian Target of Rapamycin), leading to inhibition of cell metabolism, growth, and proliferation by arresting the cell cycle at the late G1 stage.

Dose of Everolimus 50 to 280 mcg (1.0 mcg/mm²), and is eluted from the stent over 45 Days. Initial 60% of drug is eluted in 15 Days and remaining 40% is exponentially eluted till 45 Days, to prevent restenosis without interfering with re-endothelialization and subsequent healing.





Technical Specification

Radio-opacity of struts	High
Radio-opacity of markers	Very high
Balloon compliance	Semi-compliant
Entry Profile	0.01 mm
Catheter compatibility	5 Fr
Guide wire compatibility	0.014inch
Balloon winging	Tri-fold
Distal tracking force	Low

Stent Diameter Compliance

SPALIER Everolimus Eluting Coronary Stent System									
Pressure (Bar)	2.00	2.25	2.50	2.75	3.00	3.50	4.00	4.50	
6	1.92	2.11	2.35	2.58	2.80	3.25	3.85	4.41	
7	1.94	2.16	2.40	2.64	2.90	3.30	3.90	4.43	
8	1.96	2.21	2.46	2.71	2.94	3.40	3.95	4.45	
9 (NP)	2.00	2.25	2.50	2.75	3.00	3.50	4.00	4.50	
10	2.04	2.34	2.60	2.81	3.07	3.54	4.04	4.52	
11	2.08	2.38	2.64	2.86	3.10	3.58	4.08	4.55	
12	2.10	2.42	2.68	2.91	3.14	3.62	4.12	4.58	
13	2.13	2.44	2.70	2.95	3.18	3.66	4.16	4.60	
14	2.16	2.46	2.72	2.98	3.20	3.70	4.20	4.62	
15	2.18	2.48	2.74	3.01	3.22	3.74	4.24	4.64	
16 (RBP)	2.20	2.50	2.76	3.04	3.24	3.78	4.28	4.67	
17	2.22	2.54	2.80	3.07	3.27	3.82	4.32	4.71	
18	2.24	2.56	2.82	3.10	3.35	3.86	4.36	4.75	
Grey background: NP (Nominal Pressure) Black background : RBP(Rated Burst Pressure)									

Ordering Information

Diameter (mm)	8	12	16	20	24	28	32	36	40	44	48
2.00 mm	EP 20008	EP 20012	EP 20016	EP 20020	EP 20024	EP 20028	EP 20032	EP 20036	EP 20040	EP 20044	EP 20048
2.25 mm	EP 22508	EP 22512	EP 22516	EP 22520	EP 22524	EP 22528	EP 22532	EP 22536	EP 22540	EP 22544	EP 22548
2.75 mm	EP 27508	EP 27512	EP 27516	EP 27520	EP 27524	EP 27528	EP 27532	EP 27536	EP 27540	EP 27544	EP 27548
3.00 mm	EP 30008	EP 30012	EP 30016	EP 30020	EP 30024	EP 30028	EP 30032	EP 30036	EP 30040	EP 30044	EP 30048
3.50 mm	EP 35008	EP 35012	EP 35016	EP 35020	EP 35024	EP 35028	EP 35032	EP 35036	EP 35040	EP 35044	EP 35048
4.00 mm	EP 40008	EP 40012	EP 40016	EP 40020	EP 40024	EP 40028	EP 40032	EP 40036	EP 40040	EP 40044	EP 40048
4.50 mm	EP 45008	EP 45012	EP 45016	EP 45020	EP 45024	EP 45028	EP 45032	EP 45036	EP 45040	EP 45044	EP 45048



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