FLUENCE

Sirolimus Eluting Coronary Stent System

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

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Healing Solutions.....

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Fluence's Platform - technology deployed for medical challenges

Fluence'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 -

Fluence has Hybrid cell design that has close cells at the end and open cells in middle.

No. of Crowns 8

Excellent conformance with vessel wall -

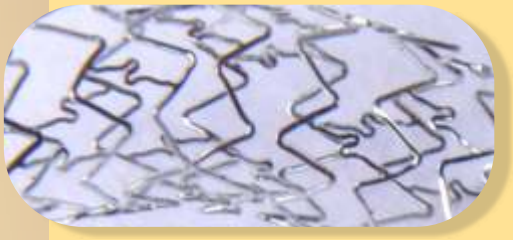
S-shaped links optimizes radial strength and metal to artery ratio for vessel support and provides better arterial support.

Radial strength > 1.6N

Reduced injury of edges -

Innovative hybrid design of Fluence 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

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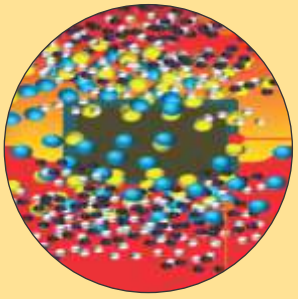
- **Unique Coating with LMSC Technique -** LMSC Technique ensures uniform coating throughout the stent length from proximal to distal resulting in uniform drug distribution to address edge injuries.

- **Ultra-Thin uniform coating -** Fluence 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
  Fluence 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.



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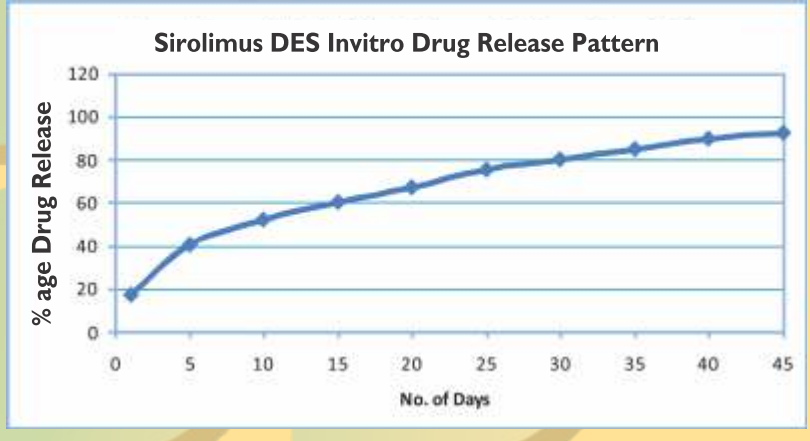
Sirolimus Eluting Coronary Stent System

Strength of stalwart Drug - Sirolimus

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

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



Dose of sirolimus 65 to 364 mcg, 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.

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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

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

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