

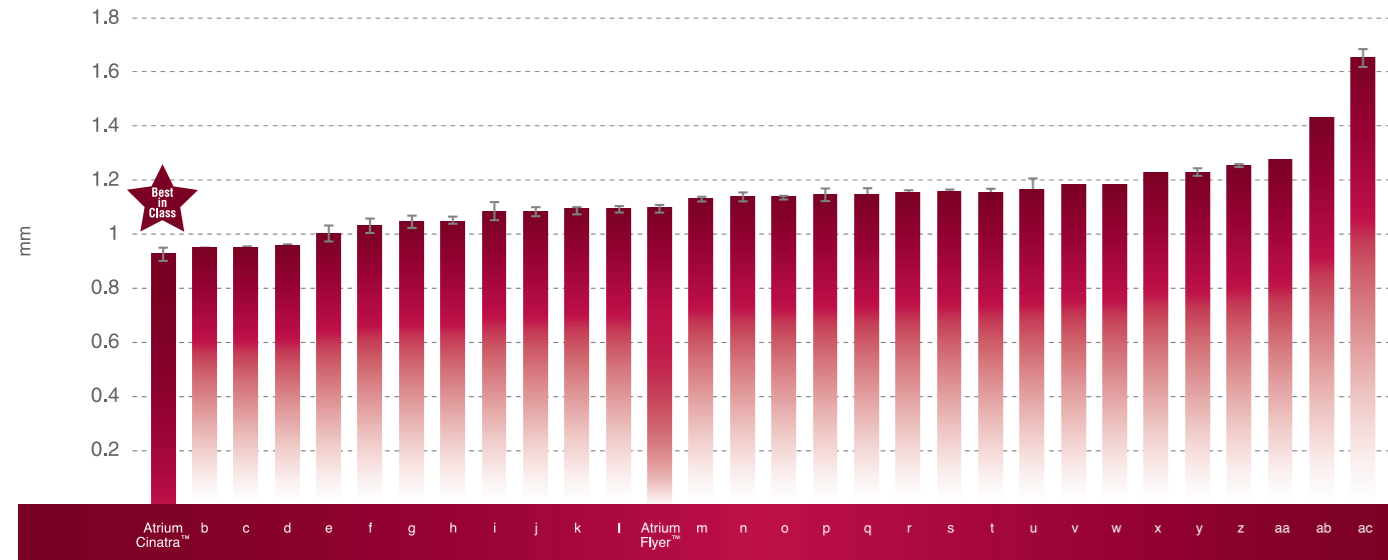
**Cinatra's preferred low crossing profile provides superior handling and delivery target confidence.**

**Crossing Profile Comparison:**

Atrium's proprietary PowerCrimp™ technology combined with the proprietary cell geometry of the Cinatra™ stent enables it to have the lowest crossing profile tested to date. This specialized crimping process provides a more uniform compaction for a highly deliverable, ultra low profile stent. When crossing a tight calcified lesion, an ultra low profile coronary stent is unquestionably preferred. Cinatra™ is the lowest profile stent providing physicians and their patients with a less invasive treatment option.

The Cinatra™ stent has a market leading crossing profile of 0.93mm.

**Stent Profile**  
3.0mm x 19mm N=5 (unless otherwise stated)



**Cinatra™ BMS CONFIRM 1 Clinical Trial - Final Results:**

CONFIRM 1 is a prospective, multicentre, single blind, randomized, clinical trial conducted in Belgium in 2008. The study enrolled 50 patients in the Cinatra™ BMS group at 7 sites. Clinical follow up is ongoing at 1 month, 6 months, and 1, 2, 3, 4 and 5 years post procedure. Repeat angiography and IVUS was performed at the 6 month follow up time for all subjects. The primary objective is to evaluate the safety and performance of Cinatra™ BMS in patients with *de novo* coronary artery disease. The performance was assessed by measuring the late lumen loss, in-stent and in-segment at 6 months post procedure.

Study Endpoints	Final 6 Month Results
Average Lesion Length	11.03 mm
Average Reference Vessel Diameter	2.78 mm
Late Lumen Loss @ 6 Months (in-stent)	0.71 mm
Late Lumen Loss @ 6 Months (in-segment)	0.49 mm
Binary Restenosis	14.6%

Historical Comparison	Driver® 1	Vision® 2
Average Lesion Length	11.04 mm	10.60 mm
Average Reference Vessel Diameter	3.07 mm	2.94 mm
Late Lumen Loss @ 6 Months (in-stent)	0.94 mm	0.83 mm
Late Lumen Loss @ 6 Months (in-segment)	0.62 mm	N/A
Binary Restenosis	15.7%	15.7%

**1. Medtronic Driver® stent:**

Sketch M.H. et al, Evaluation of the Medtronic (Driver) Cobalt-Chromium Alloy Coronary Stent System. *The American Journal of Cardiology*, 2005; 95:8-12

**2. Abbott Vision® stent:**

Kereiakes D. J. et al, Usefulness of a Cobalt Chromium Coronary Stent Alloy. *The American Journal of Cardiology*, 2003; 92:463-466



Reference	Stent Length	Balloon Diameter	Balloon Length	Crossing Profile
90012	8 mm	2.50 mm	9 mm	0.83 mm / 0.033"
90013	8 mm	2.75 mm	9 mm	0.87 mm / 0.034"
90014	8 mm	3.00 mm	9 mm	0.90 mm / 0.035"
90015	8 mm	3.50 mm	9 mm	1.02 mm / 0.040"
90016	8 mm	4.00 mm	9 mm	1.10 mm / 0.043"
90021	13 mm	2.50 mm	14 mm	0.83 mm / 0.033"
90022	13 mm	2.75 mm	14 mm	0.87 mm / 0.034"
90023	13 mm	3.00 mm	14 mm	0.90 mm / 0.035"
90024	13 mm	3.50 mm	14 mm	1.02 mm / 0.040"
90025	13 mm	4.00 mm	14 mm	1.10 mm / 0.043"
90030	16 mm	2.50 mm	17 mm	0.83 mm / 0.033"
90031	16 mm	2.75 mm	17 mm	0.87 mm / 0.034"
90032	16 mm	3.00 mm	17 mm	0.90 mm / 0.035"
90033	16 mm	3.50 mm	17 mm	1.02 mm / 0.040"
90034	16 mm	4.00 mm	17 mm	1.10 mm / 0.043"
90039	19 mm	2.50 mm	20 mm	0.83 mm / 0.033"
90040	19 mm	2.75 mm	20 mm	0.87 mm / 0.034"
90041	19 mm	3.00 mm	20 mm	0.90 mm / 0.035"
90042	19 mm	3.50 mm	20 mm	1.02 mm / 0.040"
90043	19 mm	4.00 mm	20 mm	1.10 mm / 0.043"
90048	25 mm	2.50 mm	26 mm	0.83 mm / 0.033"
90049	25 mm	2.75 mm	26 mm	0.87 mm / 0.034"
90050	25 mm	3.00 mm	26 mm	0.90 mm / 0.035"
90051	25 mm	3.50 mm	26 mm	1.02 mm / 0.040"
90052	25 mm	4.00 mm	26 mm	1.10 mm / 0.043"



▶ Dr. John Ormiston, Mercy Angiography Unit, Auckland, New Zealand. Data on file at Atrium Medical Corporation.



**Technical Data Bulletin**

**INDEPENDENT RESEARCH LABORATORY CORONARY STENT TESTS**

**OBJECTIVES:** To assess the mechanical performance characteristics of the new Cinatra™ CoCr Stent in comparison to other commercially available bare metal stent systems. Final 6 month late lumen loss and restenosis rates of the Cinatra™ BMS CoCr coronary stent have been evaluated following clinical trial experience.

**BACKGROUND:** The introduction of any new product often leads to questions regarding the physical characteristics of the product, how it performs in a mechanical setting, and how it performs clinically. Atrium Medical Corporation has introduced the Cinatra™ Cobalt Chromium Stent System, this technical data bulletin reviews, the available independent mechanical testing and the initial angiographic results of the first clinical use of the product.

**METHODS:** Dr. John Ormiston from Mercy Angiography Unit in Auckland, NZ conducted a series of five different mechanical tests to examine the performance of the Cinatra™ CoCr compared to 26 of the most popular bare metal stents on the market. The CONFIRM 1 trial was a multi-center trial that enrolled 50 patients who received the Cinatra™ CoCr stent with a primary endpoint of angiographic late lumen loss at 6-months.

**RESULTS:** Independent mechanical testing has shown that the Cinatra™ CoCr stent system has the lowest crossing profile of 0.93mm, which is the lowest of the 26 bare metal stents tested. Testing shows that the Cinatra™ CoCr stent is more flexible mounted and deployed than all competitors tested. Radial strength tests and recoil tests demonstrated that the product has sufficient strength to prevent vessel recoil. CONFIRM 1 final results shows a late lumen loss in-stent of 0.71mm and in-segment of 0.49mm at 6 months.

**CONCLUSION:** Independent mechanical testing demonstrates that the Cinatra™ CoCr stent is the lowest profile, most flexible mounted, and most flexible deployed bare metal stent tested. Final clinical results indicate the Cinatra™ CoCr BMS has a low reported late lumen loss in-stent and in-segment.



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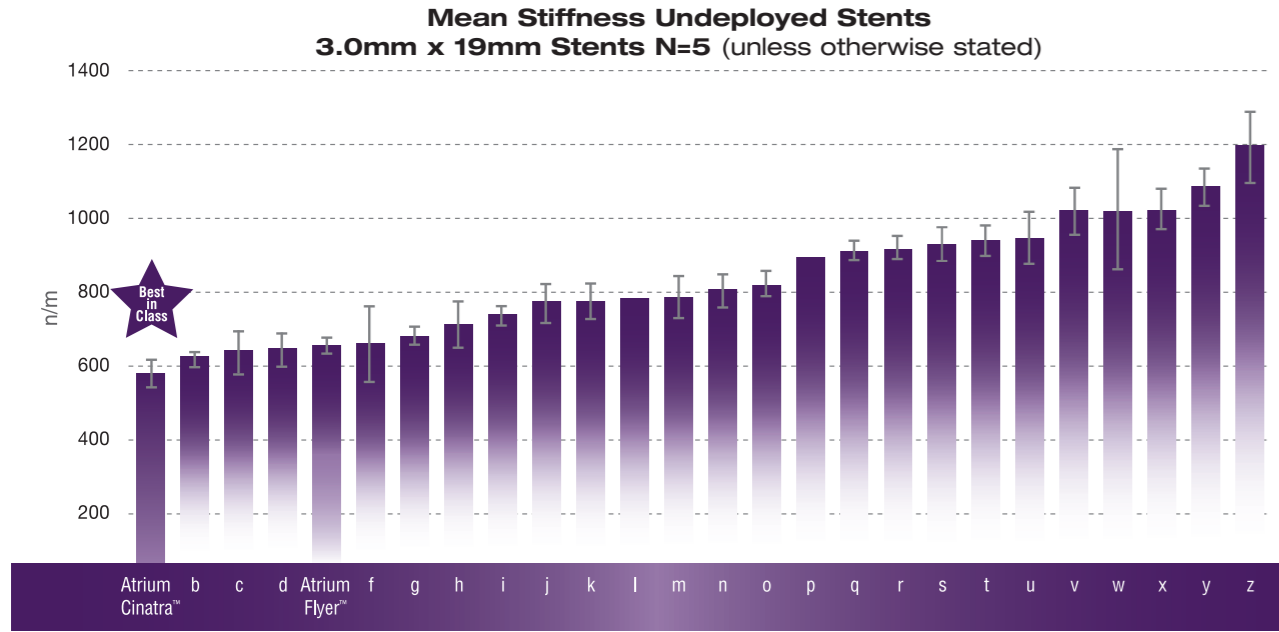
## Stent Flexibility Test Results

**Cinatra™ will track through tortuous anatomies and into tight lesions providing the interventionalist with the utmost confidence.**

### Crimped Stent Flexibility as Mounted on Balloon Catheter:

Flexibility is critical to stent performance. Flexibility is a component of both the stent and the delivery catheter working seamlessly together to deliver the stent to the target lesion. Without a flexible coronary stent, delivery would be extremely challenging or even impossible. Atrium has taken a novel approach to stent design that provides the cardiologist with unmatched tracking flexibility. Cinatra™ was engineered with a long, extremely flexible midpoint connector strut that allows for independent flexing and expansion of each individual ring element. The open cell structure combined with its long struts provides for unsurpassed flexibility in both the crimp and expanded state.

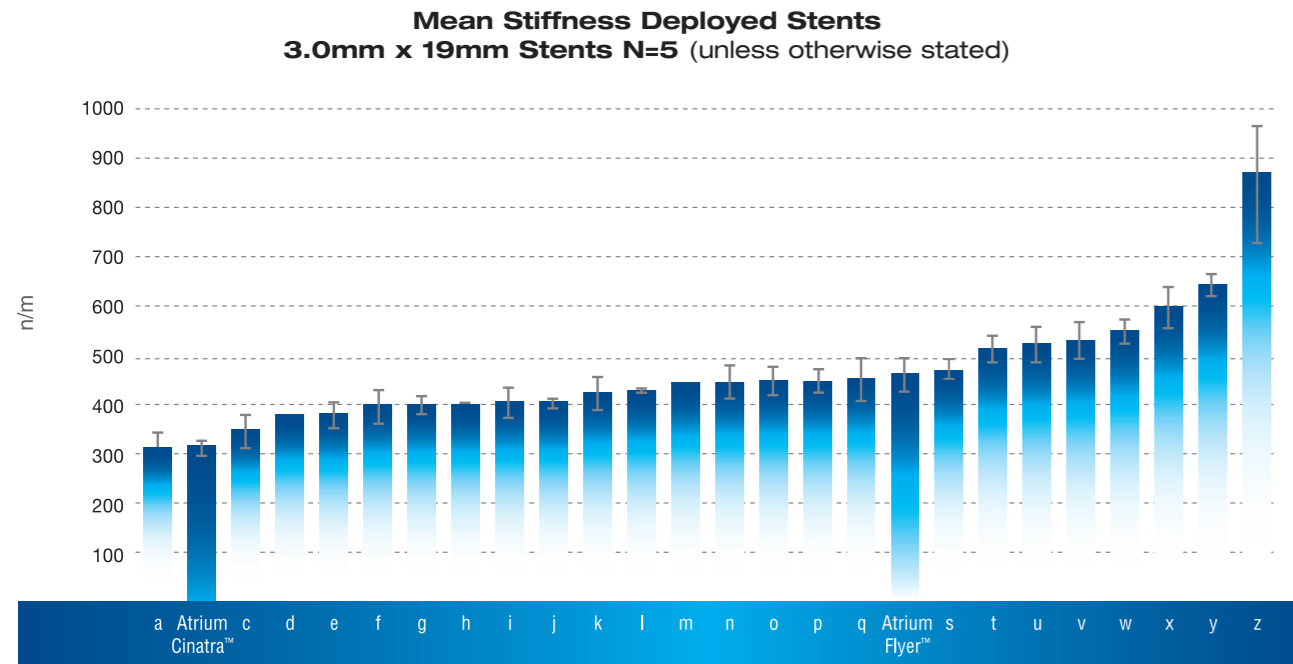
The data demonstrates that Cinatra™ is the most flexible coronary stent.



### Expanded/Deployed Stent Flexibility:

The flexibility of a stent in its expanded or deployed state is commonly described as conformability. A conformable stent will take on the natural shape of the vessel after deployment which minimizes trauma to the vessel wall. The unique cell design of the Cinatra™ stent allows for each ring element to expand and flex independently. As a result, Cinatra™ conforms to the natural contour of the vessel wall allowing for overall better compliance. Studies have shown that trauma caused by rigid and less flexible stents can induce a more aggressive inflammatory response resulting in a higher restenosis rates.

This testing confirms that Cinatra™, when deployed, is the most flexible and conformable stent available.



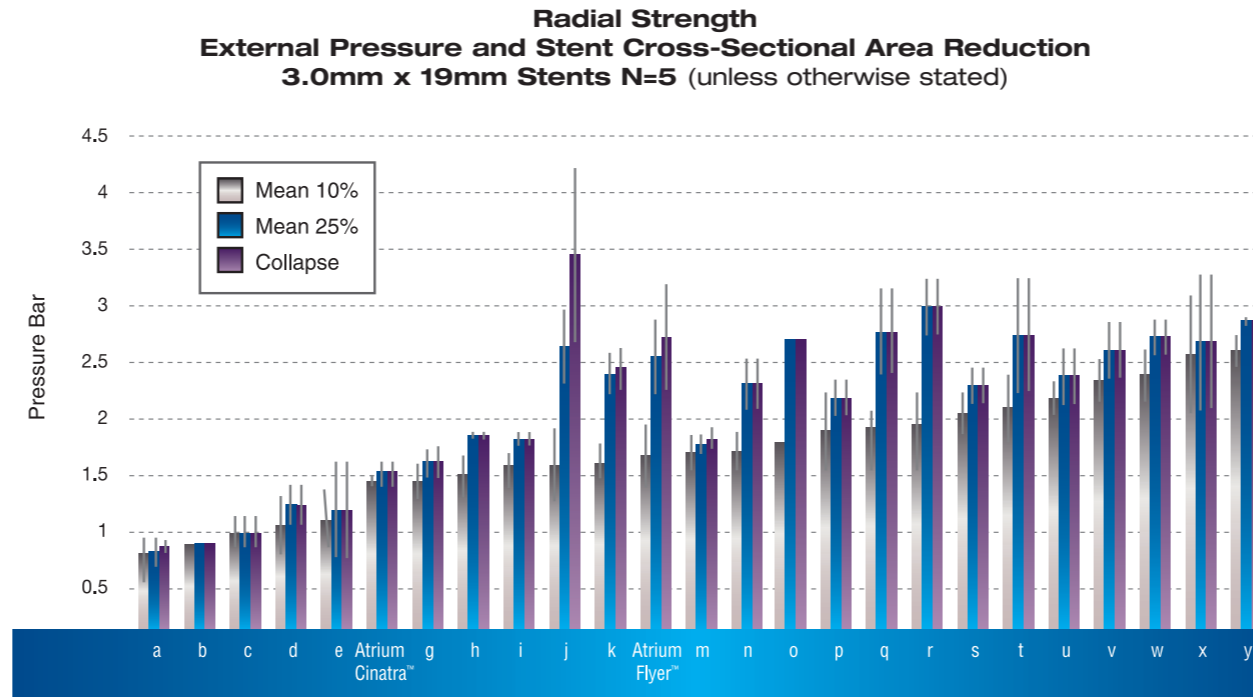
## Radial Strength

**Cinatra™ has approximately three times the necessary radial strength to overcome vessel spasm and recoil in coronary vessels, while maintaining unsurpassed flexibility.**

### Radial Strength Test Results:

Balancing various mechanical properties while providing sufficient radial strength is important for maintaining a patent and open vessel. Radial strength is the amount of force required to compress a deployed stent. Cinatra™ was specifically engineered to maintain vessel stability while delivering superior flexibility. Smaller vessels have weaker and thinner walls which can be more sensitive to mechanical injury during stent deployment resulting in aggressive vascular injury remodeling and restenosis. So the importance of balancing radial strength and flexibility is paramount to favorable patient outcomes. Cinatra™ has approximately three times the necessary radial strength to overcome vessel spasm and recoil in coronary vessels, while still maintaining high flexibility.

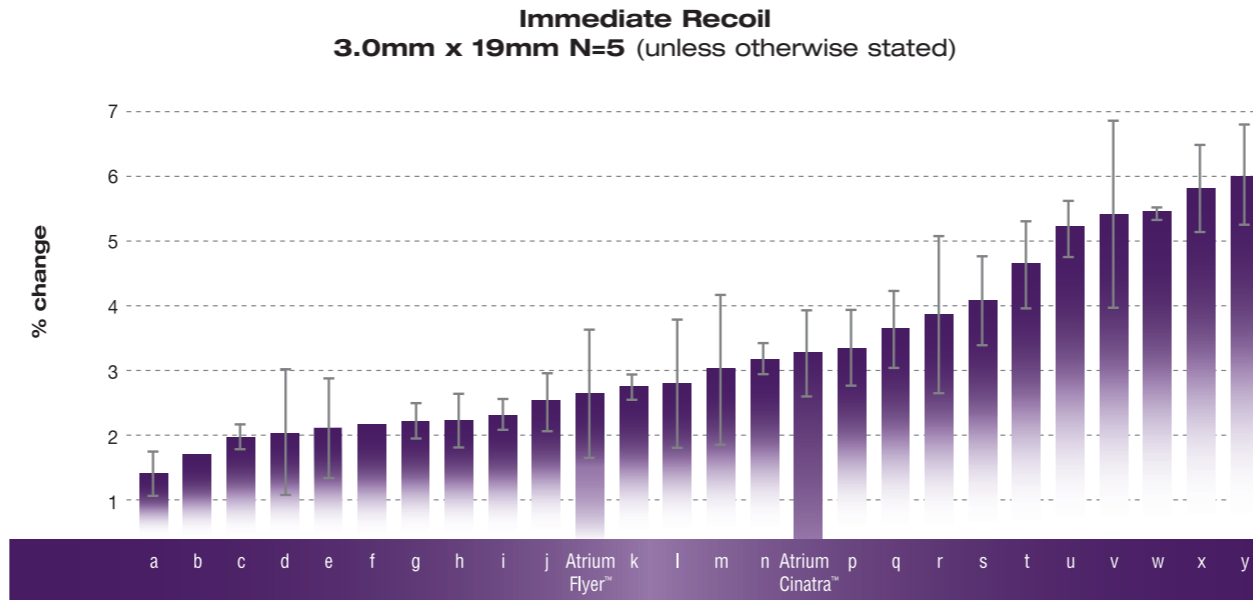
Cinatra™ delivers the confidence in that it provides sufficient radial stability.



## Immediate Recoil

### Immediate Recoil Test Results:

Immediate recoil of the Cinatra™ stent shows similar if not better recoil properties than other CoCr stents.



## Technical Data Bulletin No. 10

### List of Stents Tested

Dr. John Ormiston, Mercy Angiography Unit, Auckland, New Zealand.

3.00 mm Stent	Profile	Balloon Markers	Flexibility Undeployed	Immediate Recoil	Flexibility Deployed	Radial Strength
Abbott BioDivYsio®						✓
Abbott RXBVS®	✓	✓				✓
Abbott Vision®	✓	✓	✓	✓	✓	✓
Abbott Xience® V	✓	✓	✓	✓	✓	✓
Atrium Cinatra™	✓	✓	✓	✓	✓	✓
Atrium Flyer™	✓	✓	✓	✓	✓	✓
Avantec Vascular Viva™	✓	✓	✓	✓	✓	✓
Biosensors International Gazelle®	✓	✓	✓	✓	✓	✓
Biosensors International BioMatrix®	✓	✓	✓	✓	✓	✓
Boston Scientific Express 2™	✓	✓	✓	✓	✓	
Boston Scientific Liberte®	✓	✓	✓	✓	✓	✓
Boston Scientific Taxus® Express II	✓	✓	✓	✓	✓	
Boston Scientific Taxus® Liberte	✓	✓	✓	✓	✓	✓
Guidant Penta®	✓	✓	✓	✓	✓	
Johnson & Johnson Cypher®	✓	✓				
Johnson & Johnson Cypher Select®	✓	✓	✓	✓	✓	✓
Johnson & Johnson NEVO™	✓	✓				
Johnson & Johnson Presillion™	✓		✓		✓	
Jomed JOSTENT Flex®		✓	✓	✓	✓	✓
Jomed JOSTENT GraftMaster®	✓	✓	✓	✓	✓	✓
Medtronic AVE S670™		✓	✓	✓	✓	✓
Medtronic Bestent™						✓
Medtronic Driver®	✓	✓	✓	✓	✓	✓
Medtronic Endeavor®	✓	✓	✓	✓	✓	
Medtronic Endeavor® Sprint	✓	✓	✓	✓	✓	✓
Medtronic Endeavor® Resolute	✓	✓	✓	✓	✓	
OrbusNeich Blazer™	✓	✓	✓	✓	✓	✓
OrbusNeich Evolution2™	✓	✓	✓	✓	✓	✓
OrbusNeich Genous™	✓	✓	✓	✓	✓	
Terumo Tsunami™ Gold	✓	✓	✓	✓	✓	✓

