



GENERAL OPEN  
SURGERY

## Novosyn<sup>®</sup> Quick

YOUR FAST AND EFFICIENT SOLUTION FOR A BETTER QUALITY OF LIFE

# Novosyn<sup>®</sup> Quick

FAST ABSORBABLE BRAIDED AND COATED SUTURE MADE OF POLYGLACTIN 910\*



YOUR FAST AND  
EFFICIENT SOLUTION  
FOR A BETTER QUALITY OF LIFE

\* Novosyn<sup>®</sup> Quick is a suture material produced from a copolymer composed of 90 % glycolide and 10 % L-lactide

ARE YOU LOOKING FOR A FAST ABSORBABLE BRAIDED SUTURE WITH AN OUTSTANDING STRENGTH, KNOTTING AND HANDLING?

DO YOU WANT TO OFFER COMFORT TO YOUR PATIENT WITH NO NEED OF SUTURE REMOVAL?

- Fast degradation profile for a most convenient patient follow up without need of suture removal. Approximately 50 % of the initial tensile strength remains in day 5 and starts to fall off in days 7-10.<sup>1</sup>
- High tensile strength<sup>2,3</sup> to assure a precise soft tissue approximation for a 7-10 days wound healing process, and good knotting performance<sup>3</sup>.
- Significant flexibility<sup>3,4</sup> and suture coating for a good handling of the suture and patient comfort.
- Full needle range offer and pre-manufactured needle-thread combinations for special indications: Episio-Set.

THINK CONFIDENCE, THINK B. BRAUN



# Novosyn® Quick

FAST ABSORBABLE BRAIDED AND COATED SUTURE MADE OF POLYGLACTIN 910\*

**Novosyn® Quick** is a Polyglactin 910 braided suture with fast degradation profile.

It is intended for use in soft tissue approximation when only short term wound support is required and when the rapid absorption of the suture would be beneficial.

**The main indications are:**

- Episiotomy repair
- Skin closure

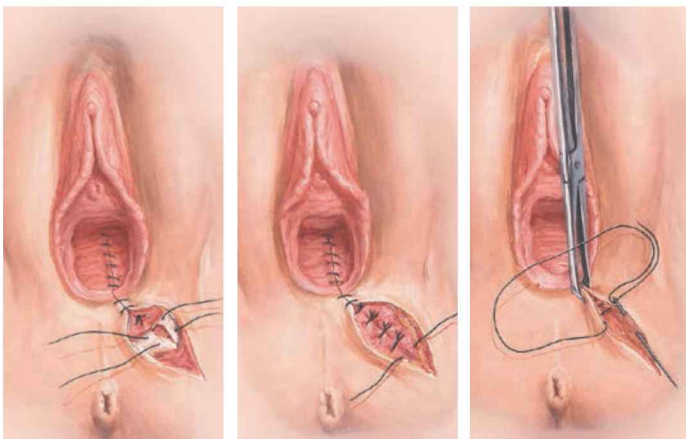


## MAIN INDICATION: EPISIOTOMY REPAIR

Episiotomy incision is still considered a controversial procedure<sup>5</sup>. The overall rates of episiotomy in different countries range from 8 % in the Netherlands, 14 % in England, 50 % in the USA to 99 % in the Eastern European Countries.<sup>6</sup>

Long-term complications after episiotomy repair are common. A large proportion of women suffer short-term perineal pain and up to 20 % have longer problems as dyspareunia.<sup>5</sup>

Complications depend upon the severity of perineal trauma and on the effectiveness of treatment. The type of suturing material, the technique of repair and the skill of the surgeon are the main three factors that influence the outcome of perineal repair.<sup>6</sup>





# COMMITTED TO THE PATIENT AND HEALTH CARE PROFESSIONALS



## PATIENT SAFETY AND COMFORT

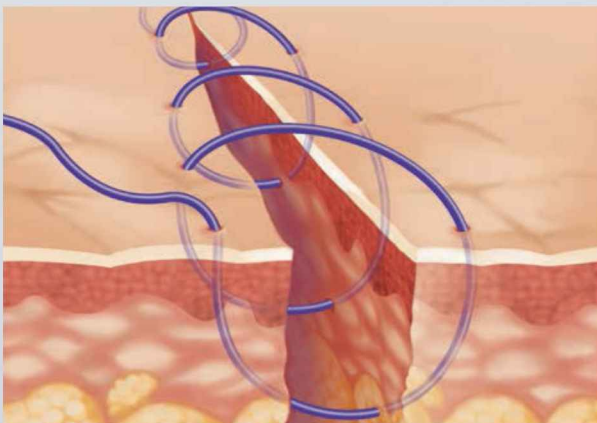
The use of a more rapidly absorbed form of Polyglactin 910 for repair of perineal trauma is associated with a significant reduction in pain and also with no need of suture removal, when comparing with the standard absorbable synthetic material.<sup>6</sup>



## HEALTH CARE PROFESSIONAL CONFIDENCE

There is a recommendation that a short term synthetic absorbable suture is a preferential material for all three layers in an episiotomy repair. The most recommended suturing technique is a loose continuous non-locking technique with two knots (at the beginning and at the end).<sup>5</sup>

GOLD STANDARD TECHNIQUE<sup>3,5</sup>:  
CONTINUOUS SUTURING FOR THE 3 LAYERS:  
VAGINAL TISSUE, PERINEAL MUSCLE AND SKIN



Continuous suturing

## EPISIOTOMY REPAIR SUTURING TECHNIQUES<sup>3,5</sup>

Interrupted suturing by layer:

**Traditional technique**

● 2 %

Continuous suturing + interrupted stitches for skin:

**Less common technique**

● 8 %

Continuous suturing for the 3 layers:

**Gold standard technique – actual trend**

● 90 %

# Novosyn® Quick

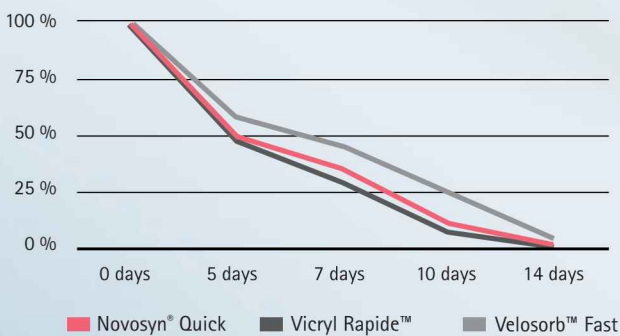
STRONG AS ALWAYS WITH A FAST DEGRADATION PROFILE

## FAST DEGRADATION PROFILE

The lower molecular weight of this polymer provides **Novosyn® Quick** a rapid absorption by hydrolysis.

The suture falls off 7-10 days after the surgery or can be wiped off with sterile gauze if is needed.

## Fast degradation profile<sup>1</sup>



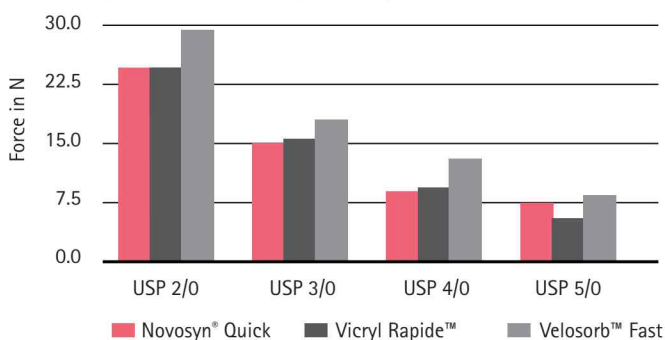
**Novosyn® Quick:**  
same performance as the market reference.



## KNOT PULL TENSILE STRENGTH

The high initial tensile strength of the Polyglactin 910 provides the needed critical wound support for an undisturbed tissue healing.

## Knot pull tensile strength comparison<sup>2,a)</sup>



## SHORT-TERM ABSORBABLE SUTURE

Approx. 50 % tensile strength retention:

■ after 5 days

Approx. 0 % tensile strength retention

■ after 14 days

Complete mass absorption

■ in approx. 42 days



**Novosyn® Quick:**  
similar performance as the market reference.

a) Four sample T-test for Novosyn® Quick vs. Vicryl Rapide™ size 2-0 suggests P value=0.023; for Novosyn® Quick vs. Vicryl Rapide™ size 3-0 suggests P value=0.251 and for Novosyn® Quick vs. Vicryl Rapide™ sizes 4/0 and 5/0 the tests suggests p-value=0.000. If the P value is greater than .05, the result is not statistically significant.

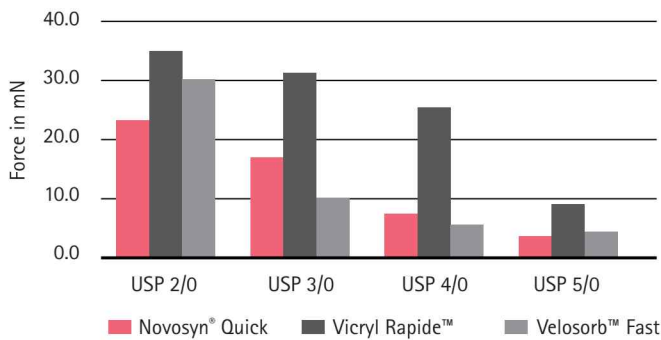
# HIGH SMOOTHNESS AND GOOD HANDLING FOR A BETTER CARE

## FLEXIBILITY SUTURE PERFORMANCE<sup>4</sup>

The high flexibility and pliability values of **Novosyn<sup>®</sup> Quick** thread allows a very good handling properties.

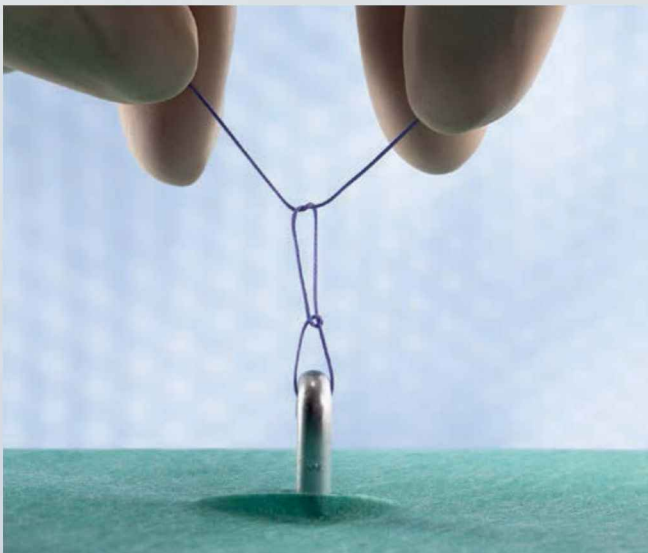
**Novosyn<sup>®</sup> Quick:**  
better flexibility performance than the market reference.

### Flexibility comparison<sup>4,b)</sup>

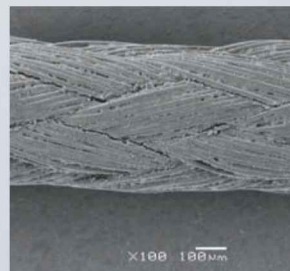


b) Four sample T-test for Novosyn<sup>®</sup> Quick vs. Vicryl Rapide™ size 2/0 suggests P value=0.012; for Novosyn<sup>®</sup> Quick vs. Vicryl Rapide™ size 3-0 suggests P value=0.338; for Novosyn<sup>®</sup> Quick vs. Vicryl Rapide™ size 4-0 suggests P value < 0.001 and for 5/0 the tests suggests P value=0.015. If the p-value is equal to or smaller than .05, the result is statistically significant.

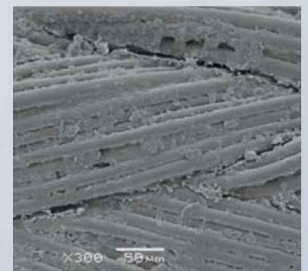
## SUTURE SMOOTHNESS SURFACE



**Novosyn<sup>®</sup> Quick** has a very smooth surface thanks to its glycolide and L-lactide and calcium stearate coating. This helps to reduce the risk of tissue trauma and provides comfort to the patient.



Novosyn<sup>®</sup> Quick USP 2



Novosyn<sup>®</sup> Quick USP 2

# Novosyn® Quick

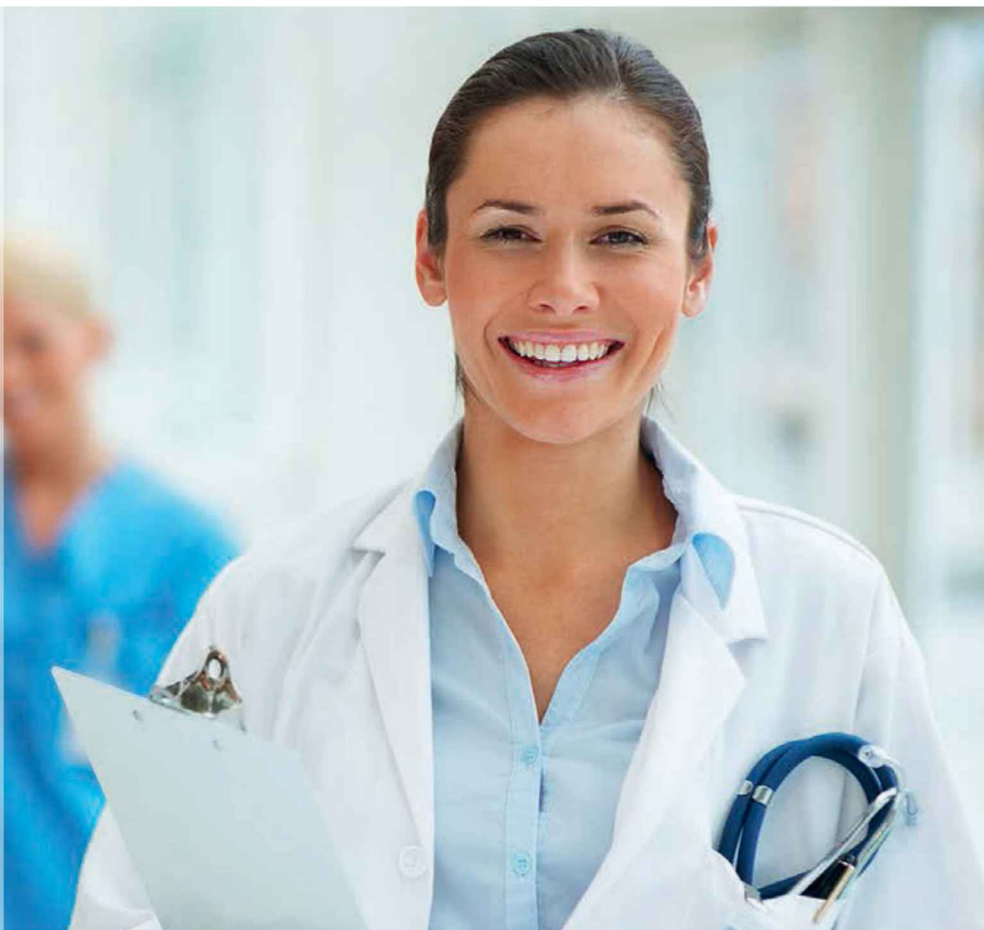
QUALITY, CONFIDENCE AND TRUST

## BLINDED COMPARATIVE EVALUATION

A blinded test was done with surgeons coming from different medical specialties such as Gynecology, Obstetric and Plastic surgery, as they represented the main clinical indications for a fast absorbable braided suture.

The surgeon was asked to make 2-3 stitches and perform the knots as they normally do in their daily practice.

The surgeon was asked to evaluate different aspects of the suture performance for each product by using a scale from 1 to 5 (1 = worst, 5 = best).



## BLINDED COMPARATIVE EVALUATION<sup>3</sup>

Suture performance evaluation	Novosyn® Quick	Vicryl Rapide™	Velosorb™ Fast
Suture drag	✓	✓	✓
Suture strength	✓	✓	✓
First throw hold	✓	✓	✓
Knot run down	✓	✓	✓
Knot security	✓	✓	✓
Knot repositioning	✓	✓	✓
Suture handling	✓	✓	✓

- Vicryl Rapide™ and Velosorb™ Fast were tested in this blinded test in comparison with Novosyn® Quick.
- The product samples tested were USP 2/0, USP 3/0, USP 4/0 and USP 5/0. 14 different product lots were used.

### Novosyn® Quick:

suture knotting, handling and overall performance similar to the other fast absorbable braided sutures in the market.



## B. BRAUN TOP NEEDLE RANGE

### EASYSLIDE NEEDLES

Are made of 300 series stainless steel to provide **superior bending resistance** and ductility as well as an **improved needle penetration** thanks to its geometry, surface treatment and silicone coating.

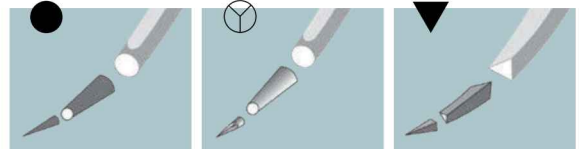
Maintaining needle penetration even after several stitches

Superior bending strength

300 series stainless steel

Superior needle-thread attachment

**Easyslide**



*Round bodied*

*Round bodied with short cutting point*

*Reverse cutting*

### QUALITY AND HIGH PERFORMANCE

- B. Braun needles have gained recognition over the years for their quality and high performance.

### CONSTANT DEVELOPMENT

- B. Braun has state of the art technology and is committed to constant research and development in order to improve needle requirements to the need of all surgical disciplines.

# Novosyn® Quick

## PRODUCT FEATURES













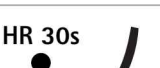

# Novosyn® Quick

	PRODUCT FEATURES	
	Structure	Multifilament
	Chemical composition	Polyglactin 910
	Color	Undyed
	Coating	Polyglactin 370 + calcium stearate
	Size	USP 2 (metric 5) – USP 6/0 (metric 0.7)
	Tensile strength retention	Approx. 50 % tensile strength retention after 5 days Approx. 0 % tensile strength retention after 14 days
	Mass absorption	Hydrolysis, complete mass absorption in approx. 42 days
	Indication	Soft tissue approximation when only short term wound support is required and when the rapid absorption of the suture would be beneficial: skin closure, particularly in paediatric surgery, episiotomies, circumcisions and closure of oral mucosa.
	Sterilization & Degradation	Gamma irradiation



IMPORTANT: Please refer to the package insert for complete instructions, contraindication, warnings and precautions.










# NEEDLE-THREAD COMBINATION

Needle length mm	Thread length cm colour	USP (metric)							
		6/0 (0.7)	5/0 (1)	4/0 (1.5)	3/0 (2)	2/0 (3)	0 (3.5)	1 (4)	2 (5)
<b>1/2 circle round bodied needle</b>									
 HR 13 <small>Easyslide</small>	70 undyed	C3046001	C3046002						
 HR 13 + GS 51 <small>Easyslide</small>	70 undyed			C3046755					
 HR 17 <small>Easyslide</small>	70 undyed	C3046011	C3046012	C3046013	C3046014				
 HR 18 <small>Easyslide</small>	70 undyed			C3046015					
 HR 22 <small>Easyslide</small>	45 70 undyed			C3046029	C3046024 C3046030	C3046031			
 HR 22s <small>Easyslide</small>	70 undyed					C3046131			
 HR 26 <small>Easyslide</small>	45 70 undyed			C3046040	C3046051 C3046041	C3046042	C3046043		
 HR 26s <small>Easyslide</small>	70 undyed					C3046090	C3046091	C3046092	
 HR 30 <small>Easyslide</small>	70 undyed				C3046046	C3046047	C3046048	C3046049	
 HR 30s <small>Easyslide</small>	70 undyed							C3046053	
 HR 37 <small>Easyslide</small>	70 undyed					C3046005	C3046006		
 HR 37s <small>Easyslide</small>	45 90 140 undyed					C3046590 C3046595 C3046591	C3046596	C3046597	

C Box of 36 units    B Box of 24 units    G Box of 12 units    M Box of 6 units

# Novosyn® Quick

## NEEDLE-THREAD COMBINATION

Needle length mm	Thread length cm colour	USP (metric)							
		6/0 (0.7)	5/0 (1)	4/0 (1.5)	3/0 (2)	2/0 (3)	0 (3.5)	1 (4)	2 (5)
<b>1/2 circle round bodied needle</b>									
 HR 40s Easyslide	70 90 undyed				C3046554	C3046467	C3046556	C3046557	C3046559 C3046558
 HR 43 Easyslide	90 undyed					C3046170			
 HR 43s Easyslide	90 undyed						C3046506	C3046507	
 HR 48 Easyslide	90 undyed					C3046180	C3046661	C3046663	C3046665
 HR 65 Easyslide	90 undyed						B3046095		
<b>5/8 circle round bodied needle</b>									
 FR 26 Easyslide	90 undyed						C3046083		
 FR 36 Easyslide	90 undyed						C3046078	C3046079	
 FR 40 Easyslide	90 undyed					C3046018	C3046019	C3046020	
<b>Straight round bodied needle</b>									
 2xGR 51 Easyslide	45 undyed				C3046810				

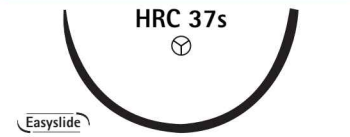

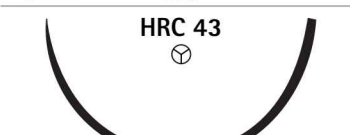




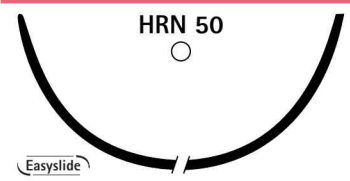
C Box of 36 units

B Box of 24 units

G Box of 12 units

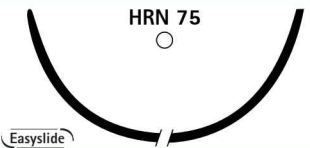
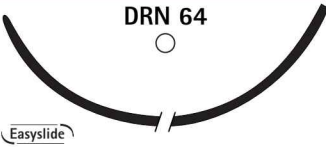







M Box of 6 units



























Needle length mm	Thread length cm colour	USP (metric)							
		6/0 (0.7)	5/0 (1)	4/0 (1.5)	3/0 (2)	2/0 (3)	0 (3.5)	1 (4)	2 (5)
<b>1/2 circle round bodied needle with short cutting point</b>									
 HRC 37s Easyslide	90 undyed				C3046360	C3046651	C3046652	C3046653	
 HRC 40s Easyslide	90 undyed						C3046003		
 HRC 43 Easyslide	90 undyed					C3046664	C3046662	C3046365	
 HRC 43ss Easyslide	90 undyed					C3046670			
 HRC 48 Easyslide	90 undyed						C3046374	C3046375	
<b>3/8 circle round bodied needle with short cutting point</b>									
 DRC 12 Easyslide	70 undyed		C3046311						
 DRC 18 Easyslide	45 70 undyed			C3046325 C3046320	C3046321				
<b>1/2 circle round bodied needle with blunt point</b>									
 HRN 50 Easyslide	90 undyed					C3046601			

# Novosyn<sup>®</sup> Quick

## NEEDLE-THREAD COMBINATION







Needle length mm	Thread length cm colour	USP (metric)							
		6/0 (0.7)	5/0 (1)	4/0 (1.5)	3/0 (2)	2/0 (3)	0 (3.5)	1 (4)	2 (5)
<b>1/2 circle round bodied needle with blunt point</b>									
 HRN 75 <small>Easyslide</small>	90 undyed							B3046605	
<b>3/8 circle round bodied needle with blunt point</b>									
 DRN 64 <small>Easyslide</small>	90 undyed								B3046668
<b>1/2 circle reverse cutting needle</b>									
 HS 15 <small>Easyslide</small>	45 undyed			C3046204					
 HS 18 <small>Easyslide</small>	45 70 undyed			C3046226	C3046227				
 HS 23 <small>Easyslide</small>	45 70 undyed			C3046229	C3046230 C3046136	C3046231 C3046140			
 HS 26 <small>Easyslide</small>	70 undyed					C3046142			
 HS 37s <small>Easyslide</small>	70 90 undyed					C3046240	C3046241	C3046442 C3046242	
 HS 40s <small>Easyslide</small>	90 undyed						C3046586	C3046587	
 HS 48 <small>Easyslide</small>	90 undyed							C3046525	

C Box of 36 units	B Box of 24 units	G Box of 12 units	M Box of 6 units
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Needle length mm	Thread length cm colour	USP (metric)							
		6/0 (0.7)	5/0 (1)	4/0 (1.5)	3/0 (2)	2/0 (3)	0 (3.5)	1 (4)	2 (5)
<b>3/8 circle reverse cutting needle</b>									
 <b>DS 12</b> 	70 undyed	C3046201	C3046202	C3046203					
 <b>DS 16</b> 	45 70 undyed		C3046212	C3046413 C3046213	C3046214				
 <b>DS 19</b> 	45 70 90 undyed		C3046219 C3046419	C3046220 C3046420 C3046223	C3046221 C3046421 C3046224	C3046422			
 <b>DS 24</b> 	45 70 90 undyed			C3046234	C3046535 C3046235	C3046536 C3046236 C3046636			
 <b>DS 30</b> 	90 undyed				C3046246	C3046247	C3046248		
 <b>DS 39</b> 	90 undyed				C3046454	C3046455			
<b>5/8 circle reverse cutting needle</b>									
 <b>FS 25</b> 	70 undyed				C3046262				
<b>Straight reverse cutting needle</b>									
 <b>GS 13</b> 	45 undyed			C3046208					
 <b>GS 45</b> 	70 undyed				C3046515				
 <b>GS 51</b> 	70 undyed			C3046271	C3046272	C3046273	C3046274		
 <b>GS 60</b> 	70 undyed				C3046409	C3046410			
<b>3/8 circle reverse cutting needle with precision point</b>									
 <b>DSMP 7</b> 	45 undyed	C3046612							

# Novosyn® Quick

## NEEDLE-THREAD COMBINATION

Needle length mm	Thread length cm colour	USP (metric)							
		6/0 (0.7)	5/0 (1)	4/0 (1.5)	3/0 (2)	2/0 (3)	0 (3.5)	1 (4)	2 (5)
3/8 circle reverse cutting needle with precision point									
 DSMP 11	45 70 undyed	C3046607 C3046603	C3046610						
 DSMP 13	45 undyed		C3046619	C3046620					
 DSMP 16	45 70 undyed		C3046611	C3046625 C3046685	C3046686				
 DSMP 19	45 70 undyed			C3046629 C3046529	C3046630 C3046530	C3046631 C3046531			
 DSMP 24	45 70 undyed				C3046154 C3046657	C3046155 C3046658			
 DSMP 35	70 undyed				C3046148				

	Thread length cm colour	USP (metric)							
		5/0 (1)	4/0 (1.5)	3/0 (2)	2/0 (3)	0 (3.5)	1 (4)	2 (5)	3 (6)
Pre-cut sutures									
6 threads of 45 cm	6 x 45 undyed		C3037004	C3037005	C3037006	B3037007	B3037008		
2 threads of 70 cm	2 x 70 undyed		C3037024		C3037026	C3037027	C3037028		
5 threads of 70 cm	5 x 70 undyed		C3037444		C3037446				
3 threads of 45 cm	3 x 45 undyed			C3037625	C3037626	C3037627	C3037628		
1 thread of 150 cm	1 x 150 undyed				C3037706	C3037706	C3037694	C3037693	
Ligature reels									
1 thread of 250 cm	1 x 250 undyed			G3037015	G3037016	G3037017	G3037018	G3037020	

C Box of 36 units

B Box of 24 units








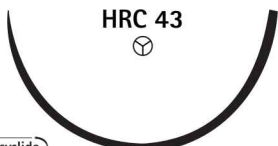

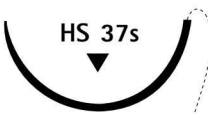






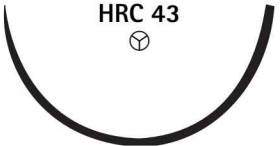
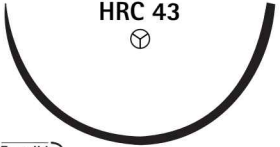

G Box of 12 units

M Box of 6 units




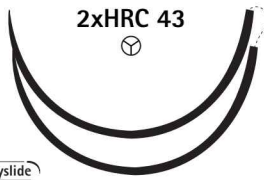



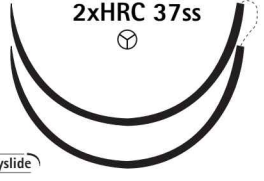

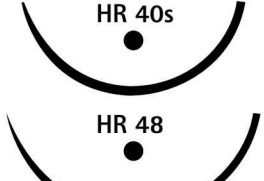
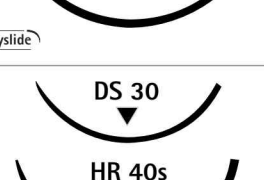



# Episio-Set Novosyn® Quick

FOR EPISIOTOMIES

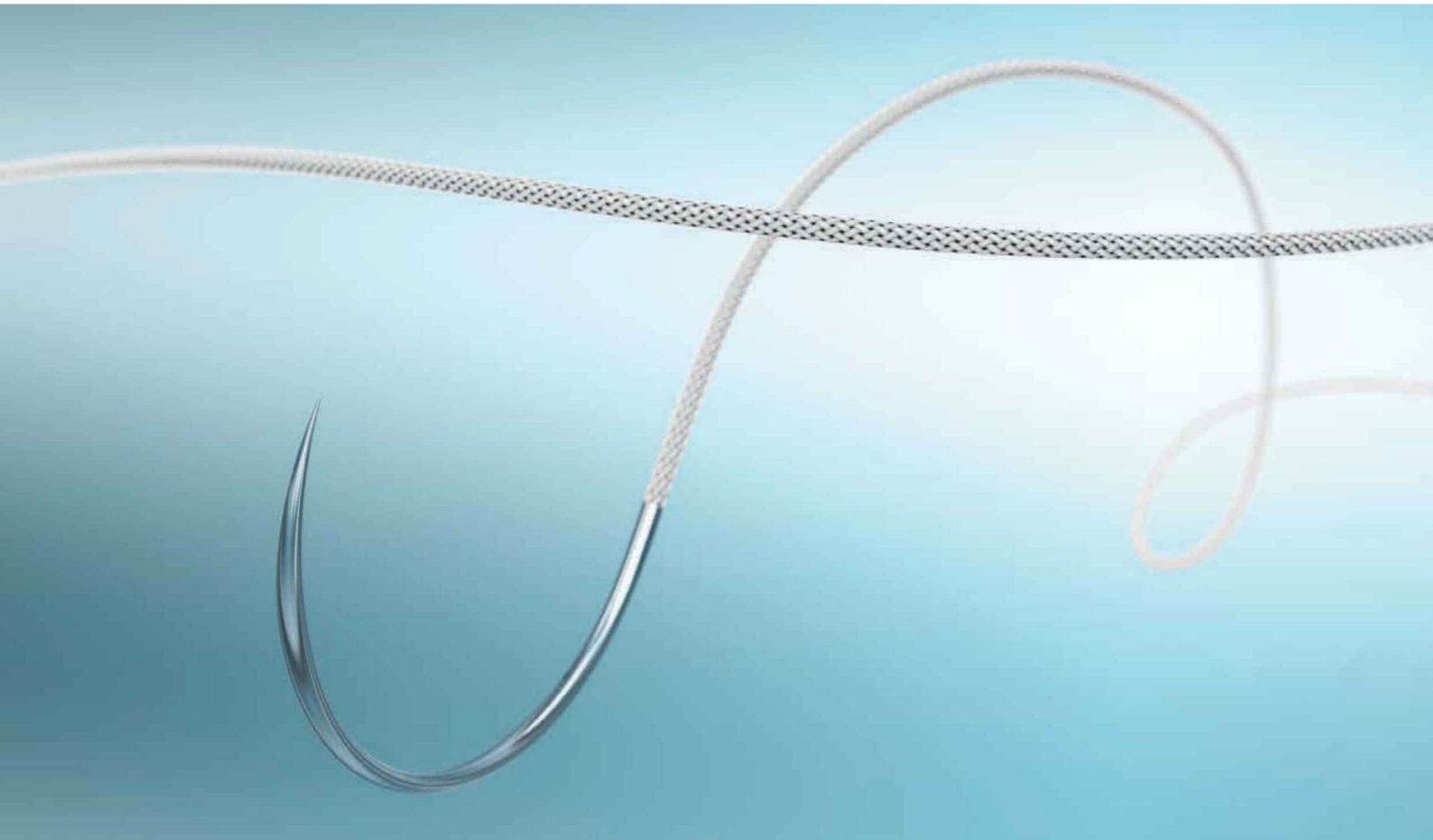
Needle length mm	Thread length cm	USP (metric)	Units/box	Catalog No.
 DS 24  HRC 37s 	70  90	2/0 (3)  0 (3.5)	36 units	C3046918
 DS 24  HR 43s 	70  90	2/0 (3)  0 (3.5)	24 units	B3046106
 DS 24  HRC 43 	70  90	2/0 (3)  0 (3.5)	36 units	C3046910
 HS 37s  HR 37s 	140  140	2/0 (3)  2/0 (3)	36 units	C3046913
 HS 37s  HR 37s 	140  140	3/0 (2)  3/0 (2)	36 units	C3046920
 DS 24  HRC 43  HRC 43 	70  90  90	2/0 (3)  0 (3.5)  1 (4)	24 units	B3046909

# Episio-Set Novosyn® Quick

FOR EPISIOTOMIES

Needle length mm	Thread length cm	USP (metric)	Units/box	Catalog No.
 <p>DS 24</p>  <p>2xHRC 43</p> <p>Easyslide</p>	70	2/0 (3)	24 units	B3046911
	90	2/0 (3)		
 <p>DSMP 24</p>  <p>2xHRC 37ss</p> <p>Easyslide</p>	70	2/0 (3)	24 units	B3046912
	90	1 (4)		
 <p>DSMP 24</p>  <p>2xHRC 37ss</p> <p>Easyslide</p>	70	2/0 (3)	24 units	B3046916
	90	0 (3.5)		
 <p>DS 30</p>  <p>HR 40s</p>  <p>HR 48</p> <p>Easyslide</p>	70	0 (3.5)	24 units	B3046921
	70	0 (3.5)		
	70	0 (3.5)		
 <p>DS 30</p>  <p>HR 40s</p>  <p>HR 48</p> <p>Easyslide</p>	70	2/0 (3)	24 units	B3046922
	70	2/0 (3)		
	70	2/0 (3)		

## REFERENCES



- 1 B. Braun R&D Testing Services Report – RDR/02/FF/1147/JLT-S, RDR/02/FF/1147/JLT-T and RDR/02/FF/1147/JLT-V; RDR/DID/MULT/12037 and RDR/DID/MULT/12057; RDR/02/FF/1505/JLT-A.
- 2 B. Braun R&D Testing Services Report – RDR/02/FF/1147/JLT-S, RDR/02/FF/1147/JLT-T and RDR/02/FF/1147/JLT-V; PTR/02/FF/1209/JLT-A, RDR/DID/MULT/12037 and RDR/DID/MULT/12057; RDR/02/FF/1505/JLT-A.
- 3 Blinded comparative evaluation test. Expert Consultancy Panel. Proof of usability for fast absorbable braided sutures: RDR/DID/MUL/ LCR/15072.
- 4 B. Braun R&D Testing Services Report – RDR/02/FF/1147/JLT-S, RDR/02/FF/1147/JLT-T and RDR/02/FF/1147/JLT-V; PTR/02/FF/0514 and PTR/02/FF/1209/JLT-A; RDR/02/FF/1505/JLT-A.
- 5 Kalis V, Stepan J, Novotny Z, Chaloupka P, Kralickova M, Rokyta Z. Material and type of suturing of perineal muscles used in episiotomy repair in Europe. *Pelviperrineology* 2008;27:17-20.
- 6 ROOG (Royal College of Obstetricians and Gynaecologists) Guideline N° 23. Revised June 2004.

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