

# Novosyn<sup>®</sup> Quick

Your fast and efficient solution for a better quality of life

Fast absorbable braided and coated suture made of Polyglactin 910\*



Sutures

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

# 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

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?



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

- 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:

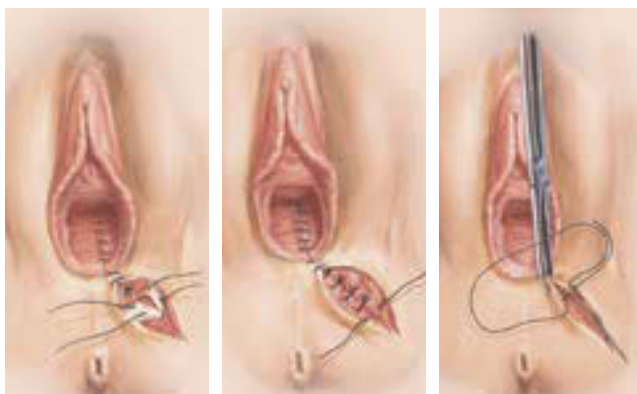
- Episiotomy repair
- Skin closure



### 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

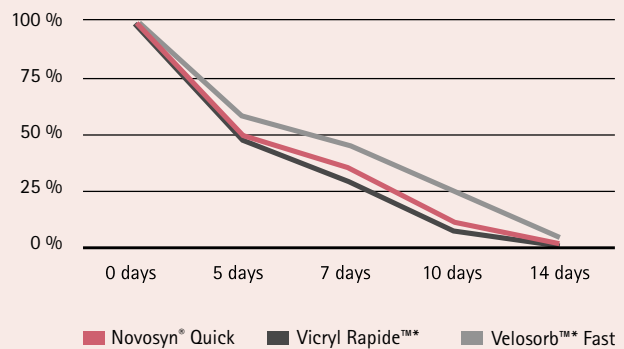
Strong as always with a fast degradation profile



## 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>

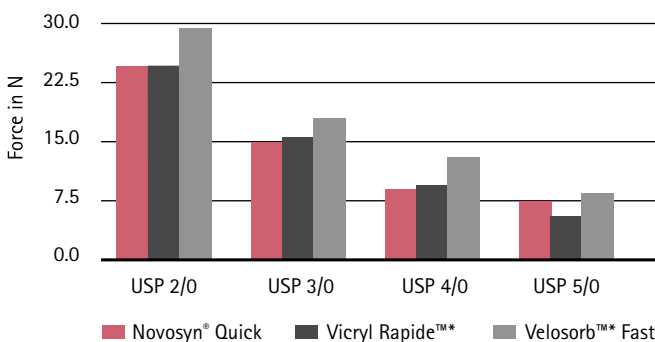


**Novosyn® Quick:**  
same performance as the market reference.

## 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>



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.

## 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.

## High smoothness and good handling for a better care



### Suture smoothness surface

**Novosyn® 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® Quick USP 2



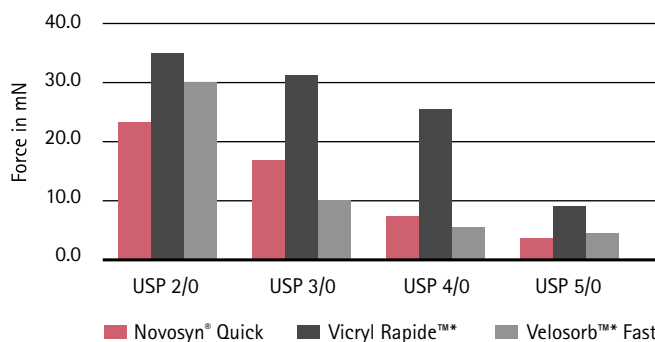
Novosyn® Quick USP 2

### Flexibility suture performance<sup>4</sup>

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

**Novosyn® Quick:**  
better flexibility performance than the market reference.

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



b) Four sample T-test for Novosyn Quick vs. Vicryl Rapide size 2/0 suggests P value=0,012; for Novosyn Quick vs. Vicryl Rapide size 3-0 suggests P value=0,338; for Novosyn 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.

# 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, Plastic surgery and Ophthalmology, 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

### 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.

## Easyslide

### 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



Round bodied



Round bodied with short cutting point



Reverse cutting

# Novosyn® Quick

## Product Features

### Novosyn® Quick

*Your fast and efficient solution for a better quality of life*

#### Product Features

Structure	Multifilament
Chemical composition	Polyglactin 910
Colour	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. Novosyn® Quick can also be used for conjunctival suturing and periorcular skin closure in ophthalmic surgery.
Sterilization & Degradation	Gamma irradiation



























IMPORTANT: Please refer to the package insert for complete instructions, contraindication, warnings and precautions.™™ and ™™ Trademarks of its respective owners. Other brands are trademarks of B. Braun company. © 2015 B. Braun.



B. Braun is one of the world's leading healthcare supplier with different production facilities all over Europe. Novosyn® Quick is produced at our Centre of Excellence for Closure Technologies in Spain where B. Braun aims to satisfy the highest quality demands, ensured by a finely tuned integral quality and environment management system.

## 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)
1/2 circle round bodied needle									
 HR 13 	70 undyed	C3046001	C3046002						
 HR 13 + GS 51 	70 undyed			C3046755					
 HR 17 	70 undyed	C3046011	C3046012	C3046013	C3046014				
 HR 18 	70 undyed			C3046015					
 HR 22 	45 70 undyed			C3046029	C3046024 C3046030	C3046031			
 HR 22s 	70 undyed					C3046131			
 HR 26 	45 70 undyed			C3046040	C3046051 C3046041	C3046042	C3046043		
 HR 26s 	70 undyed					C3046090	C3046091	C3046092	
 HR 30 	70 undyed				C3046046	C3046047	C3046048	C3046049	
 HR 30s 	70 undyed							C3046053	
 HR 37 	70 undyed					C3046005	C3046006		
 HR 37s 	45 90 140 undyed					C3046590 C3046595 C3046591	C3046596	C3046597	

C Box of 36 units




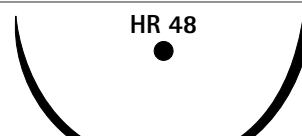
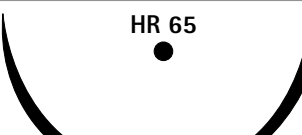




B Box of 24 units

G Box of 12 units















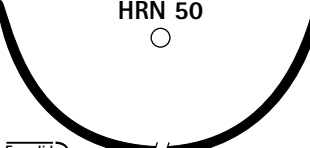

M Box of 6 units

# Novosyn® Quick

## Needle-Thread combination

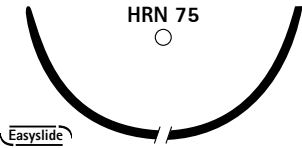
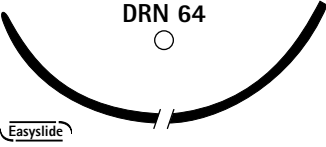
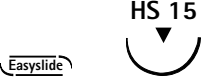
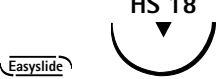





Needle length mm	Thread length cm colour	USP (metric)							
		6/0 (0.7)	5/0 (1)	4/0 (1.5)	3/0 (2)	2/0 (3)	0 (3.5)	1 (4)	2 (5)
<b>1/2 circle round bodied needle</b>									
 HR 40s Easyslide	70								
	90 undyed				C3046554	C3046467	C3046556	C3046557	C3046559 C3046558
 HR 43 Easyslide	90 undyed					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
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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)
1/2 circle round bodied needle with short cutting point									
 HRC 37s 	90 undyed				C3046360	C3046651	C3046652	C3046653	
 HRC 40s 	90 undyed						C3046003		
 HRC 43 	90 undyed					C3046664	C3046662	C3046365	
 HRC 43ss 	90 undyed					C3046670			
 HRC 48 	90 undyed						C3046374	C3046375	
3/8 circle round bodied needle with short cutting point									
 DRC 12 	70 undyed		C3046311						
 DRC 18 	45 70 undyed			C3046325 C3046320	C3046321				
1/2 circle round bodied needle with blunt point									
 HRN 50 	90 undyed					C3046601			

# 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)	
1/2 circle round bodied needle with blunt point										
 HRN 75 Easyslide	90 undyed							B3046605		
3/8 circle round bodied needle with blunt point										
 DRN 64 Easyslide	90 undyed								B3046668	
1/2 circle reverse cutting needle										
 HS 15 Easyslide	45 undyed			C3046204						
 HS 18 Easyslide	45 70 undyed			C3046226	C3046227					
 HS 23 Easyslide	45 70 undyed			C3046229	C3046230 C3046136	C3046231 C3046140				
 HS 26 Easyslide	70 undyed					C3046142				
 HS 37s Easyslide	70 90 undyed					C3046240	C3046241	C3046442 C3046242		
 HS 40s Easyslide	90 undyed						C3046586	C3046587		
 HS 48 Easyslide	90 undyed							C3046525		

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	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							

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## 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									
 <b>DSMP 11</b> 	45	C3046607	C3046610						
	70 undyed	C3046603							
 <b>DSMP 13</b> 	45		C3046619	C3046620					
	70 undyed								
 <b>DSMP 16</b> 	45		C3046611	C3046625					
	70 undyed			C3046685	C3046686				
 <b>DSMP 19</b> 	45			C3046629	C3046630	C3046631			
	70 undyed			C3046529	C3046530	C3046531			
 <b>DSMP 24</b> 	45				C3046154	C3046155			
	70 undyed				C3046657	C3046658			
 <b>DSMP 35</b> 	70				C3046148				
	undyed								

C Box of 36 units

B Box of 24 units

G Box of 12 units

M Box of 6 units



	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	C3037692	C3037694	C3037693	
Ligature reels									
1 thread of 250 cm	1 x 250 undyed			G3037015	G3037016	G3037017	G3037018	G3037020	

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## 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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