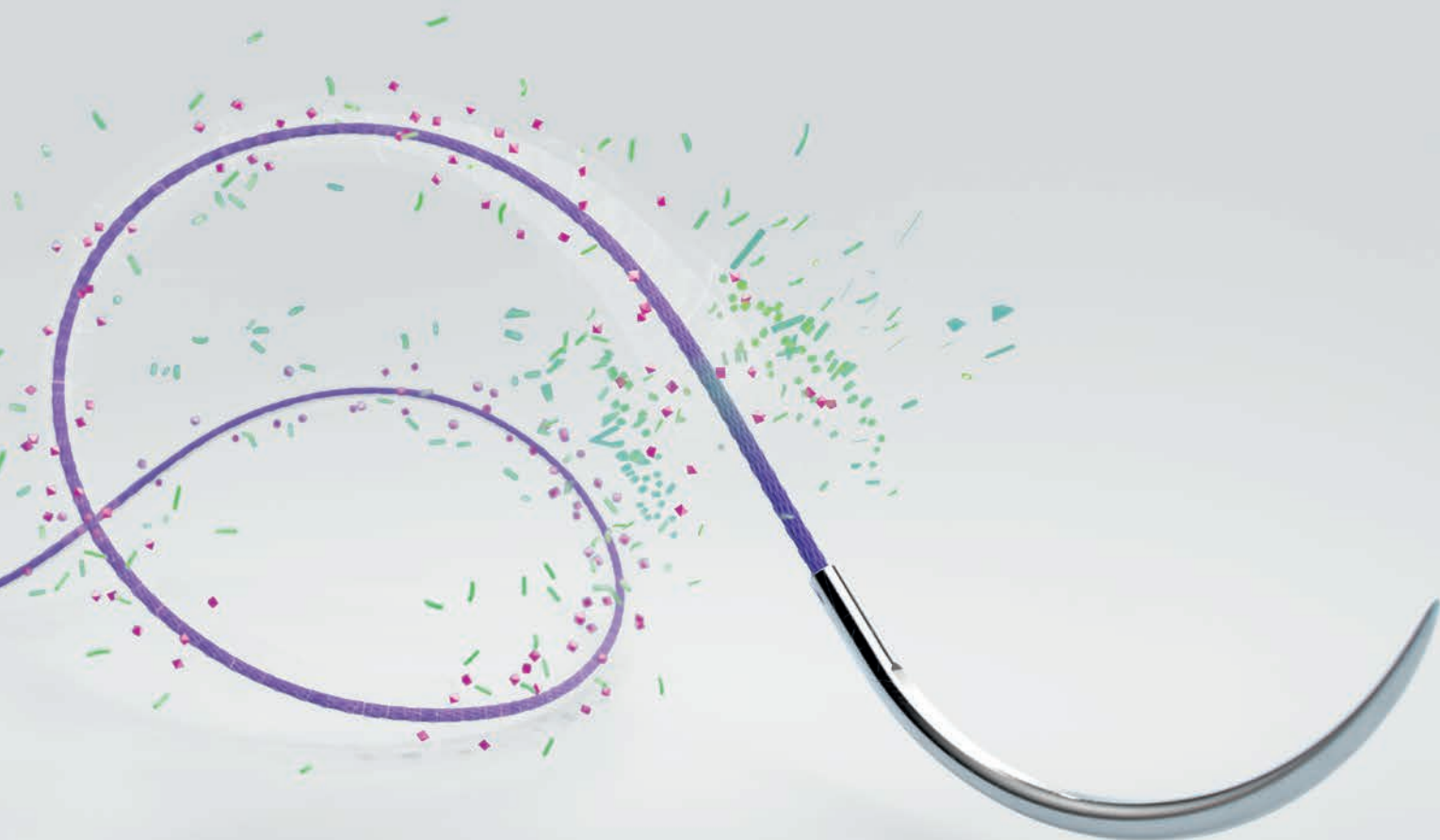


Novosyn[®] CHD

Absorbable Braided Suture Coated
with Chlorhexidine Diacetate



Novosyn[®] CHD

Absorbable Braided Suture Coated with Chlorhexidine Diacetate

Chlorhexidine – Your Choice, Your Protection.



Simulated picture, not real illustration. Artificial colours & effect.

About SSI: Surgical Site Infection. Facts & Figures

- Surgical site infection refers to an infection that occurs after surgery in the part of the body where the surgery took place. Surgical site infections can sometimes be superficial infections involving the skin only. Other surgical site infections are more serious and can involve tissues under the skin, organs, or implanted material (1).
- It occurs within 30 days after the operation if no implant is left in place or within 90 days if implant is in place. There are three types of SSIs: superficial incisional (involves only skin and subcutaneous tissue of the incision); deep incisional (involves deep soft tissue, e.g. fascia, muscle); and organ/space (involves any part of the anatomy, e.g. organs and spaces) (2).
- The World Health Organization shows that SSI is the most surveyed and frequent type of HAI (Hospital Acquired Infection) in low- and middle-income countries. Although SSI incidence is lower in high-income countries, it remains the second most frequent type of HAI in Europe and the US (3).
- Infections acquired in hospital are recognized as being associated with significant morbidity. They result in extended length of hospital stay, pain, discomfort and sometimes prolonged or permanent disability (3).
- Sutures can be a source of surgical wound contamination due to bacterial adherence and colonization. Sutures impregnated or coated with antimicrobial agents have been developed in an attempt to reduce bacterial adherence and colonization of suture materials (4, 5).

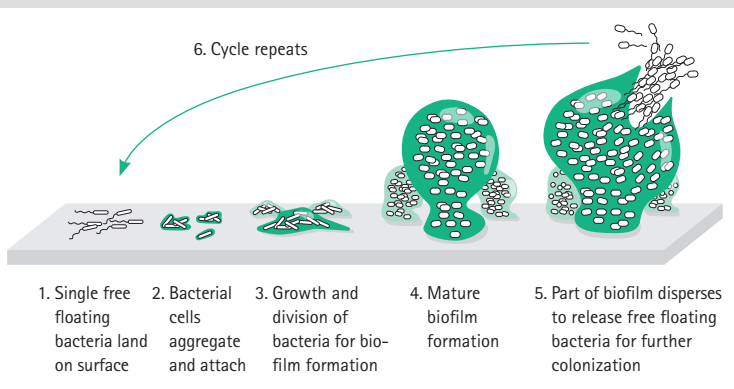


Novosyn[®] CHD

Absorbable Braided Suture Coated with Chlorhexidine Diacetate

Novosyn[®] CHD is indicated for use in applications where surgical practice requires the use of synthetic, absorbable,

braided suture materials, particularly in soft tissue approximation and/or ligation (6).



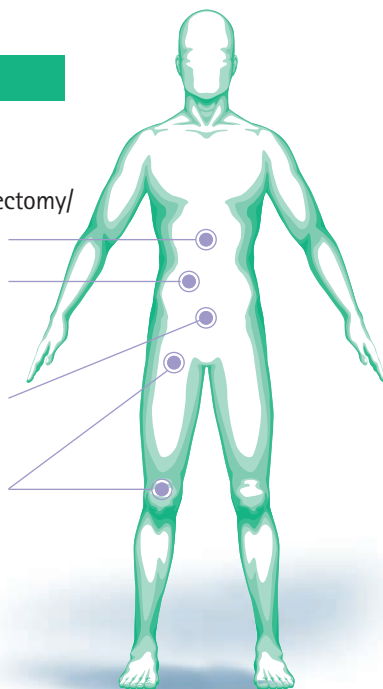
Simulated picture, not real illustration. Artificial colours & effect.

A biofilm plays a significant role in both device-related and tissue-based infections. Biofilm allows bacteria to survive intrinsic and extrinsic defenses that would inactivate the dispersed bacteria. The ideal method to manage a biofilm-mediated surgical site wound infection is to prevent it from occurring through rational use of antibiotic prophylaxis, adequate skin antisepsis prior to surgery and use of innovative in-situ irrigation procedures; together with antimicrobial suture technology. Once established, biofilm removal remains a significant clinical problem (7).

SSI per surgical procedures (8)

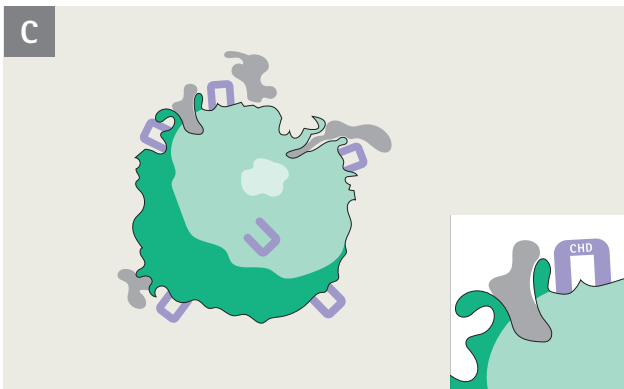
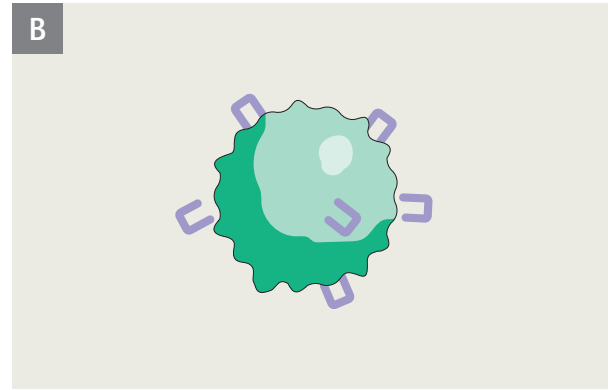
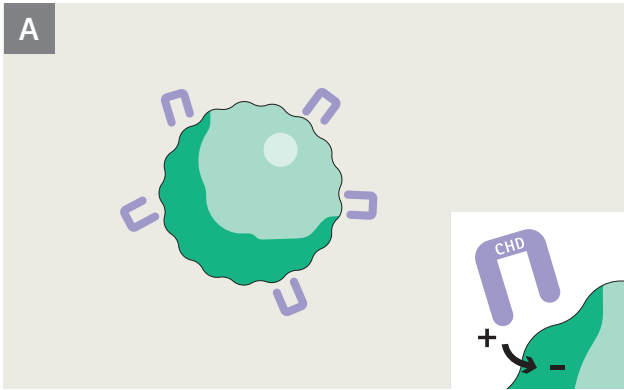
- 1.5% Laparoscopic cholecystectomy/
- 3.9% Open cholecystectomy
- 6.4% Laparoscopic colon surgery/
- 10.1% Open colon surgery
- 2.2% Cesarean section

- 1.1% Hip prosthesis
- 0.6% Knee prosthesis
- 0.7% Laminectomy



SSI pathogens (8)

- 30.7% Gram-positive cocci in laparoscopic cholecystectomy
- 38.5% Gram-positive cocci in open cholecystectomy
- 26.7% Gram-positive cocci in laparoscopic colon surgery
- 31.4% Gram-positive cocci in open colon surgery
- 52.5% Gram-positive cocci in cesarean section



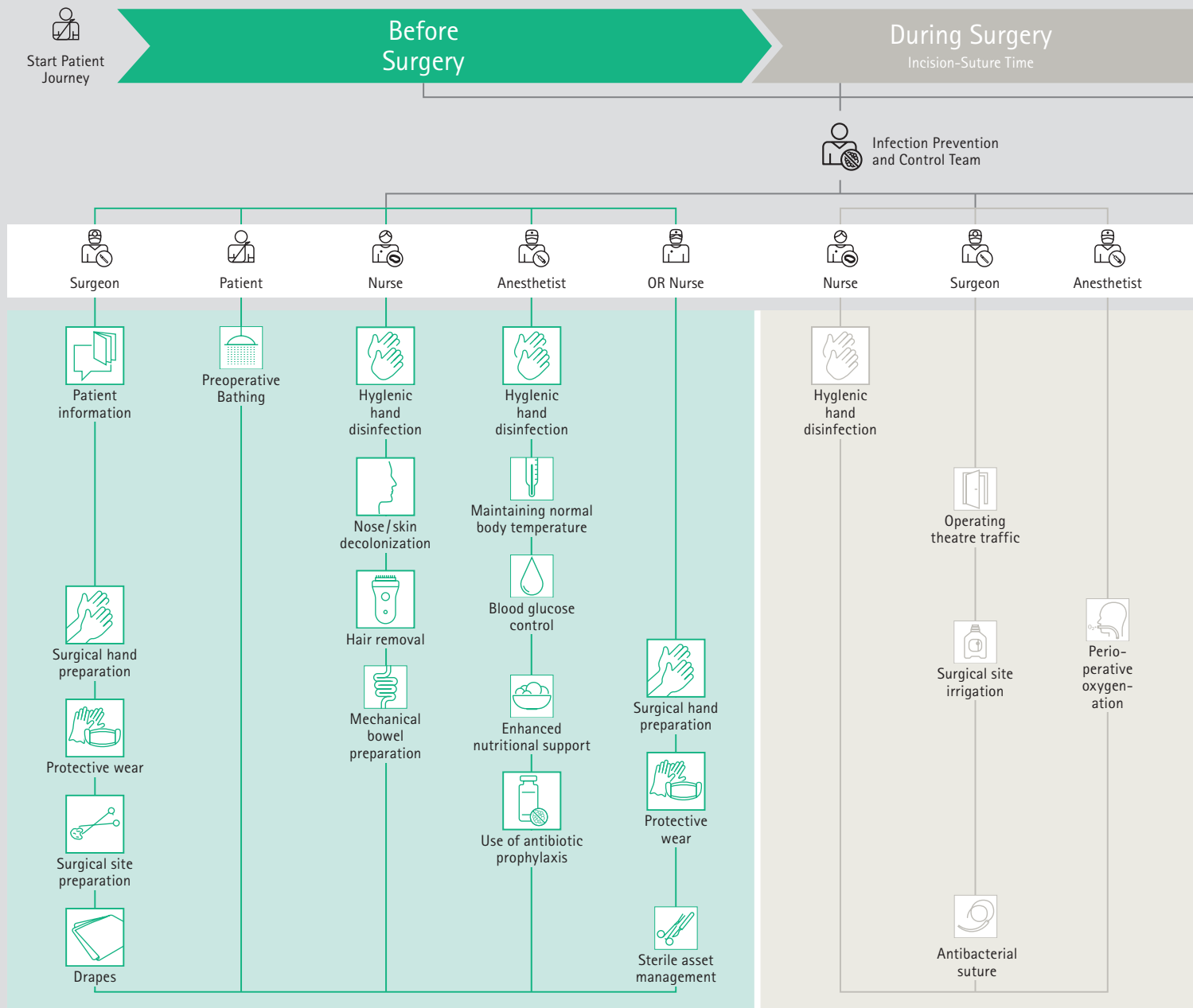
Simulated pictures, not real illustrations. Artificial colours & effect.

Chlorhexidine's mode of action is to damage the permeability of the bacteria cell by disrupting the permeability barrier and blocking the transportation of electron in the cytochrome system by combining with the cytoplasmic membrane (9, 10).

- A** The rapid electrostatic attraction of the cationic positively chlorhexidine molecule and the negatively charged bacterial cell, contributes to the absorption to certain phosphate-containing compounds on the bacterial surface.
- B** Overcoming the bacterial cell wall exclusion mechanisms and attraction toward the cytoplasmic membrane.
- C** Leakage of cytoplasmic contents starting with low molecular weigh molecules typified by potassium ions.

Novosyn[®] CHD

Absorbable Braided Suture Coated with Chlorhexidine Diacetate



After Surgery

End Patient Journey

Anesthetist

Surgeon

Cleaning Staff

Nurse

Hygienic hand disinfection

Hygienic hand disinfection

Hygienic hand disinfection

Prolonged use of antibiotic

Wound drains

Environment decontamination

Patient centered care

Monitoring wounds and changing dressings

Monitoring wounds and changing dressings

Prevention
of Complications is
Better than
the Cure

Novosyn[®] CHD

Absorbable Braided Suture Coated with Chlorhexidine Diacetate

Zone of Inhibition



Novosyn[®] (USP 2/0)



Novosyn[®] CHD (USP 2/0)

Novosyn[®] CHD has a zone of inhibition against the most common pathogens that causes SSI including *Staphylococcus aureus*, methicillin-resistant *Staphylococcus aureus* (MRSA), *Staphylococcus epidermidis*, methicillin-resistant *Staphylococcus epidermidis* (MRSE) (11-14).

Novosyn[®] CHD helps on the prevention of microbial contamination of the implanted thread (11-14).

Product Features	Novosyn®	Novosyn® CHD
Structure	Multifilament braided and coated suture	Multifilament braided and coated suture
Material	Polyglactin 910	Polyglactin 910
Coating	Polyglactin 370 + Calcium stearate	Polyglactin 370 + Calcium stearate + Chlorhexidine diacetate
USP range	8/0 to 2	5/0 to 2
Colour	Undyed and violet	Undyed and violet
Indications	Soft tissue approximation and/or ligation, specially in the region of the gastro-intestinal tract, in gynecology, urology also indicated for ophthalmology and for microsurgery	Soft tissue approximation and/or ligation
Contra indications	When a prolonged support of the wound closure by the suture material is required	Ophthalmic, cardiovascular and neurological tissues and patients with known allergic reactions to Chlorhexidine diacetate and infants aged less than 2 months
Sterilization process	Ethylene oxide	Ethylene oxide
Tensile strength retention	After 1 day: 100% After 14 days: 75% After 21 days: 40-50% After 28 days: 25%	After 1 day: 100% After 14 days: 75% After 21 days: 40-50% After 28 days: 25%
Antibacterial effect	No	Chlorhexidine diacetate bactericidal effect is a result of the binding of this cationic molecule to negatively charged bacterial cell walls
Mass absorption	After 56 till 70 days	After 56 till 70 days

Novosyn® CHD has the same physical properties than Novosyn® but with added antibacterial protection (15).

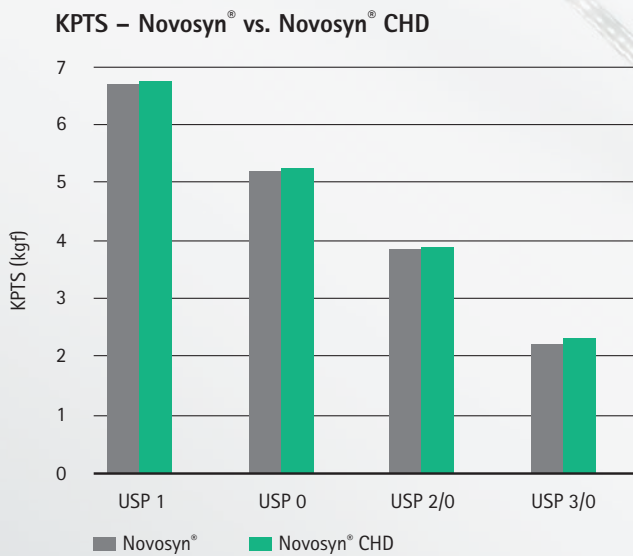


Novosyn[®] CHD

Absorbable Braided Suture Coated with Chlorhexidine Diacetate

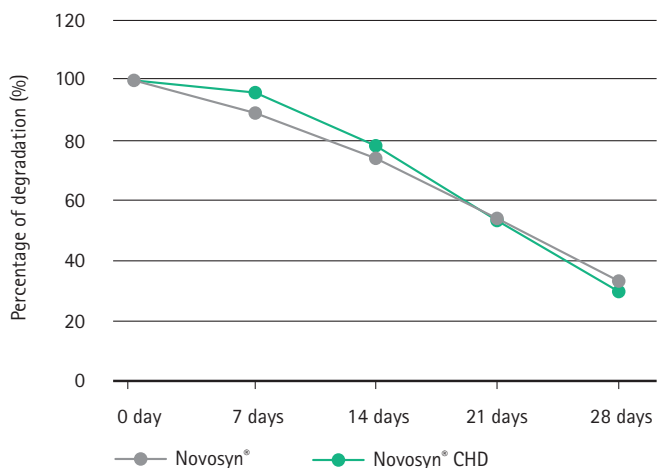
Novosyn[®] CHD has the same physical specifications than Novosyn[®] but with added antibacterial protection (16, 17).

























Novosyn[®] CHD is not inferior to Novosyn[®] in terms of intraoperative handling and wound healing (18)



Degradation Profile Novosyn[®] vs Novosyn[®] CHD in NaCl 0.9% (USP 1, 0, 2/0, 3/0) (18, 19)

Same degradation profile as with Novosyn[®] (19, 20)



Needle length mm	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)
3/8 circle round bodied needle									
 DR 12 	70 violet		C1068436						
 DR 18 	70 violet		C1068150	C1068151					
 DR 22 	70 violet			C1068160					
 DR 26 	70 violet				C1068165				
 DR 32 	70 violet			C1068170	C1068171	C1068172	C1068173		
1/2 circle round bodied needle									
 HR 13 	70 violet	C1068007	C1068008						
	70 undyed	C1069007							
 HR 13ss 	70 violet					C1068111			
 HR 17 	70 violet	C1068012	C1068013	C1068014	C1068015				
	70 undyed	C1069012	C1069013	C1069014					
 HR 17 	4 x 45 8 x 45 8 x 70 violet	take off	C1088713 M1088185 M1088255	C1088714					
 HR 17s 	70 violet					C1068116	C1068118		
 HR 22 	45 70 violet		C1068029	C1068030	C1068031				
	70 undyed		C1069029						
 HR 22 	4 x 45 8 x 45 4 x 70 violet	take off	C1088729 M1088177 C1088629	C1088730 M1088178 C1088630	C1088731				

C Box of 36 units











B Box of 24 units










G Box of 12 units

M Box of 6 units

Novosyn[®] CHD

Absorbable Braided Suture Coated with Chlorhexidine Diacetate










Needle length mm	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)
1/2 circle round bodied needle									
 Easyslide	70 violet				C1068036	C1068037	C1068038		
 Easyslide	70 90 violet	C1068039	C1068040 C1068540	C1068041 C1068541	G1068042	G1068043	C1068044		
 Easyslide	90 violet			C1068901					
 Easyslide	90 violet				C1068542				
 Easyslide	90 violet				C1068902				
 Easyslide	90 violet					C1068543	C1068544		
	70 undyed			C1069041	C1069042				
 Easyslide	4 x 45 8 x 45 4 x 70 8 x 70 violet		M1088170	C1088741 M1088171 B1088641 M1088239	C1088742 M1088172 B1088642 M1088241				
	8 x 45 undyed				M1089117				
 Easyslide	70 90 violet			C1068089	C1068090 C1068590	C1068091 C1068591	G1068092 C1068592	C1068093 C1068613	
	70 undyed				C1069090	C1069091			
 Easyslide	4 x 45 4 x 70 violet				C1088790	B1088791 B1088691	B1088792 B1088692	B1088793 B1088693	
 Easyslide	70 90 violet						C1068100 C1068580		









Needle length mm	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)
1/2 circle round bodied needle									
 HR 30 Easyslide	70 90 violet			C1068046	C1068047 C1068447	C1068048	C1068049	C1068045	
 HR 30 Easyslide take off	4 x 70 violet				B1088661				
 HR 30s Easyslide	70 violet					C1068548	C1068549		
 HR 30ss Easyslide	90 violet						B1068646		
 HR 30ss Easyslide take off	4 x 70 violet						B1088803		
 HR 37 Easyslide	70 90 violet			C1068050 C1068550	C1068051 C1068551	C1068052 B1068552	C1068053 B1068553	C1068054	
	70 undyed				C1069051				
 HR 37 Easyslide take off	4 x 45 8 x 70 violet				C1088770 M1088219				
 HR 37s Easyslide	8 x 45 70 90 violet			C1068094 C1068955	C1068095 C1068595	C1068096 B1068956	M1088138 C1068097 B1068597	C1068098 B1068598	
	70 90 undyed			C1069099	C1069095 C1069595	C1069096 B1069596	B1069597		
 HR 37s Easyslide take off	4 x 45 4 x 70 violet			C1088794	C1088795	B1088796	B1088797 B1088697	B1088798 B1088698	

C Box of 36 units	B Box of 24 units	G Box of 12 units	M Box of 6 units
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Novosyn® CHD

Absorbable Braided Suture Coated with Chlorhexidine Diacetate

Needle length mm	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)
1/2 circle round bodied needle									
 HR 37ss Easyslide	70							C1068123	
	90 violet							B1068577	
 HR 40s Easyslide	70				C1068055	C1068056	C1068057	C1068058	
	90			C1068466	C1068467	G1068556	G1068557	B1068558	
	120 violet						B1068555		
 HR 40s Easyslide	90						B1069557	B1069558	
	undyed								
 HR 40s Easyslide	8 x 45						M1088117	M1088118	
	4 x 70 violet						B1088667	B1088668	
 HR 40s Easyslide	150						B1068350		
	violet								
 HR 43 Easyslide	70					C1068946	C1068947	C1068948	
	90 violet						B1068847	B1068848	
 HR 48 Easyslide	70				C1068060	C1068061	C1068062	C1068063	
	90				C1068560	B1068561	B1068562	B1068563	
	90 undyed						B1069561	B1069562	B1069563
 HR 48 Easyslide	8 x 45						M1088103	M1088104	
	violet								
 HR 60 Easyslide	70						C1068066	C1068068	
	violet								

Needle length mm	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)
1/2 circle round bodied needle									
 HR 60 loop	150 violet							B1068380	
 HR 65	90 violet								B1068640
 HR 70	70 violet								B1068183
 HR 76	70 90 violet				B1068074			B1068579	
5/8 circle round bodied needle									
 FR 26	70 violet				C1068415	C1068416	C1068417		
 2xFR 26	90 violet				C1068820	C1068828			
 FR 36	70 violet				C1068425	C1068426			
 FR 40	70 violet					C1068490			

C Box of 36 units























B Box of 24 units















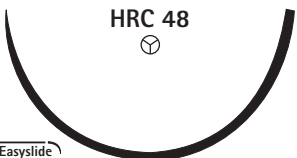

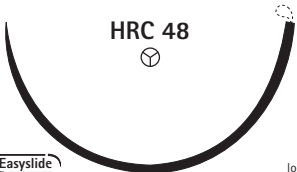

G Box of 12 units

M Box of 6 units

Novosyn[®] CHD

Absorbable Braided Suture Coated with Chlorhexidine Diacetate

Needle length mm	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)	
Hook round bodied needle										
 JR 30 	70 violet					C1068475				
 JR 36ss 	70 violet							C1068408		
 JR 40s 	70 violet								C1068478	
3/8 circle round bodied needle with short cutting point										
 DRC 18 	70 violet		C1068124	C1068128						
 DRC 22 	70 violet			C1068827						
 DRC 26 	70 violet					C1068131				
 DRC 32 	70 violet							C1068304		
1/2 circle round bodied needle with short cutting point										
 HRC 17 	70 violet		C1068313	C1068314		C1068316	C1068081			
 HRC 22 	70 violet		C1068325	C1068326	C1068331					
 HRC 26 	70 violet			C1068335	C1068336	C1068343				
 HRC 26 	4 x 45 violet take off					C1088036				

Needle length mm	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)
1/2 circle round bodied needle with short cutting point									
 HRC 26s 	70 violet				C1068441				
	70 undyed						C1069444		
 HRC 30 	70 violet					C1068371			
 HRC 37 	70 90 violet			C1068139	C1068140	C1068362 B1068141	B1068142	G1068143	
 HRC 37s 	70 90 violet				C1068842	C1068843 B1068895	C1068844	B1068897	
 HRC 40 	70 violet					C1068909			
 HRC 40s 	70 violet						C1068960		
 HRC 43s 	70 90 violet						C1068627 B1068982	C1068628 B1068983	
 HRC 48 	70 90 violet					C1068963 B1068573	C1068964 B1068574	B1068575	
 HRC 48  loop	150 violet						B1068987		

C Box of 36 units

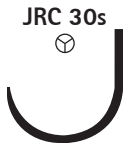





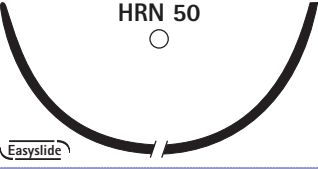







B Box of 24 units





















G Box of 12 units

M Box of 6 units

Novosyn[®] CHD

Absorbable Braided Suture Coated with Chlorhexidine Diacetate

Needle length mm	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)	
Hook round bodied needle with short cutting point										
 JRC 30s 	70 violet							C1068476		
1/2 circle round bodied needle with blunt point										
 HRN 35 	70 90 violet						C1068518 B1068618	B1068619		
 HRN 40 	90 violet							B1068637		
 HRN 50 	90 violet							B1068664		
3/8 circle reverse cutting needle										
 DS 12 	70 violet		C1068508							
	45 undyed	C1069207	C1069208							
 DS 16 	45 70 violet	C1068212 C1068512	C1068213 C1068513	C1068514						
	45 undyed		C1069213							
	45 70 violet	C1068219 C1068419	C1068220 C1068420	C1068221 C1068421	C1068422					
	45 70 undyed	C1069219 C1069419	C1069220 C1069420	C1069221 C1069421						
 DS 24 	70 violet		C1068234	G1068235	G1068236	G1068237				
	70 undyed		C1069234	C1069235	C1069236					

Needle length mm	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)
3/8 circle reverse cutting needle									
 DS 30 	70 violet			C1068246	C1068247	C1068248	C1068249		
	70 undyed			C1069246	C1069247	C1069248			
1/2 circle reverse cutting needle									
 HS 21 	45 violet		C1068225						
 HS 23 	45 violet			C1068230	C1068430	C1068431			
	70 undyed			C1069430					
 HS 23ss 	4 x 45 undyed	take off				C1089680			
 HS 26 	70 violet			C1068241	C1068242	C1068243			
 HS 26s 	70 violet				C1068290	C1068291			
	70 undyed				C1069290				
 HS 30 	70 violet				C1068251	C1068252	C1068253		
 HS 37 	90 violet			C1068494	G1068495	B1068496	B1068497	B1068498	
 HS 37s 	70 90 violet				C1068294 C1068596	C1068296 B1068582	C1068297 B1068583	C1068298 B1068599	
 HS 37s + HR 37s 	150 violet					B1068278			

C Box of 36 units




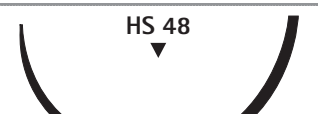






B Box of 24 units

G Box of 12 units

M Box of 6 units

Novosyn® CHD

Absorbable Braided Suture Coated with Chlorhexidine Diacetate

Needle length mm	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)
1/2 circle reverse cutting needle									
 HS 37ss take off	4 x 45 undyed					B1089718			
 HS 40	90 violet					B1068486	B1068487	B1068488	
 HS 40s	70 90 violet				C1068267 C1068585	C1068268 B1068586	C1068269 G1068587	B1068588	
 HS 48	70 90 violet					C1068261 B1068461	C1068262 G1068462	B1068463	
	90 undyed						B1069363	B1069364	
Straight reverse cutting needle									
 GS 60	70 violet			C1068265	C1068266				
	70 undyed		C1069280	C1069265	C1069267				
3/8 circle reverse cutting needle with precision point									
 DSMP 11	45 undyed	C1069608							
 DSMP 13	45 violet		C1068624						
	45 undyed	C1069619	C1069620						
 DSMP 16	45 undyed	C1069525	C1069524						
 DSMP 19	45 70 undyed		C1069629 C1069529	C1069630 C1069530	C1069531				
	45 70 undyed			C1069656 C1069556	C1069657 C1069554				
 DSMP 24	45 70 undyed			C1069656 C1069556	C1069657 C1069554				

	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									
3 threads of 45 cm	3 x 45 violet		C1058624	C1058625	C1058626	C1058627	C1058629	C1058630	
6 threads of 45 cm	6 x 45 violet		C1058644	C1058645	C1058646	B1058647	B1058649	B1058650	
12 threads of 45 cm	12 x 45 violet		C1058664	C1058665	C1058666	B1058667	B1058669	B1058670	
2 threads of 70 cm	2 x 70 violet			C1058405	C1058406	C1058407	C1058409	C1058410	
5 threads of 70 cm	5 x 70 violet		C1058444	C1058445	C1058446	C1058447	B1058449	B1058450	
1 thread of 140 cm	1 x 140 violet		C1058204	C1058205	G1058207	C1058208	C1058209	C1058210	
3 threads of 45 cm	3 x 45 undyed			C1059625	C1059626				
6 threads of 45 cm	6 x 45 undyed			C1059645	C1059646				
12 threads of 45 cm	12 x 45 undyed			C1059665	C1059666				
5 threads of 70 cm	5 x 70 undyed				C1059446	C1059447	B1059449		
1 thread of 140 cm	1 x 140 undyed			C1059205	C1059207	C1059208			
Ligature reels									
1 thread of 250 cm	1 x 250 violet			G1058715	G1058716	G1058717	G1058719	G1058720	

C Box of 36 units	B Box of 24 units	G Box of 12 units	M Box of 6 units
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Novosyn[®] CHD

Absorbable Braided Suture Coated with Chlorhexidine Diacetate

References

- (1) United States Centers for Disease Control and Prevention. <http://www.cdc.gov/HAI/ssi/ssi.html>, accessed 11 July 2016.
- (2) European Centre for Disease Prevention and Control. Surveillance of surgical site infections and prevention indicators in European hospitals - HAI-Net SSI protocol, version 2.2. Stockholm: ECDC; 2017.
- (3) Global Guidelines for the Prevention of Surgical Site Infection, World Health Organization 2016.
- (4) Plowman R, Graves N, Griffin MA, et al. The rate and cost of hospital-acquired infections occurring in patients admitted to selected specialties of a district general hospital in England and the national burden imposed. *J Hosp. Infect.* 2001;47(3): 198-209.
- (5) Walker G, Rude M, Cirillo SL, Cirillo JD. Efficacy of using sutures treated with povidone-iodine or chlorhexidine for preventing growth of *Staphylococcus* and *Escherichia coli*. *Plast Reconstr Surg.* 2009; 124:191e-193e.
- (6) Novosyn[®] CHD Instructions for use version 504496
- (7) Edmiston CE Jr, McBain AJ, Roberts C, Leaper D. Clinical and microbiological aspects of biofilm-associated surgical site infections. *Adv Exp Med Biol.* 2015;830:47-67.
- (8) ECDC. Annual epidemiological report for 2017. Stockholm: ECDC; 2019.
- (9) Senior N. Some observations on the formulation and properties of chlorhexidine. *J. Soc Cosmet. Chem.* 1973;24:259-78.
- (10) Disinfection, Sterilization, and Preservation, Seymour S. Block, Department of Chemical Engineering, University of Florida, 2001 by Lippincott Williams & Wilkins.
- (11) RDR/DID/2DB/IRP/13031,13033 & 13042.
- (12) L+SAG report.
- (13) Samyang R&D Center – report R-O-R-41 Rev. 1.
- (14) Samyang R&D Center – report SYC – 0913.
- (15) Samyang R&D Center – Report R-O-R-43.
- (16) RDR-DID-MUL-JRX-17191 Novosyn[®] CHD Finished Product Control.
- (17) FPS/02/NVP_en.9 NOVOSYN CHD (STERILE).
- (18) Tae BS, Park JH, Kim JK, et al. Comparison of intraoperative handling and wound healing between (NEOSORB[®] plus) and coated polyglactin 910 suture (NEOSORB[®]): a prospective, single-blind, randomized controlled trial. *BMC Surg* 18, 45 (2018).
- (19) RDR-DID-MUL-LMB-18136 Novosyn vs Vicryl comparative study.
- (20) RDR-1210-JLT-0 Study of Vicryl plus Ethicon-Comparison test to Novosyn CHD.



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