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VENTRIGUARD®

VENTRIGUARD® antimicrobial catheter for temporary ventricular drainage

- Long-term antimicrobial effect
 - proved under practice-equivalent test conditions
- Prevents bacterial and mycotic infections
 - by addition of ionized silver instead of antibiotic surface coating
 - also effective against antibiotic-resistant bacteria like MRSA and VRE
- Biocompatible
 - proved by comprehensive laboratory studies
- Precise catheter positioning
 - by numbered length markers in 1 cm steps

VENTRIGUARD®–Technology Quadruple antimicrobial effect

Silver ions impair the functional and structural proteins of the bacteria cell.
Result: Cellular integrity and cell proliferation decrease.

Silver ions bond with functional proteins.
Result: The cell metabolism is blocked.

Silver ions induce structural changes of the bacteria cell wall.
Result: Integrity and functionality of the cell wall are reduced, the cell loses its protection.

While silver ions attack the cell membrane, ions such as potassium and sodium are released.
Result: An electrolytic imbalance is created, the cell dies off.



VENTRIGUARD® ANTIMICROBIAL VENTRICULAR CATHETER

The VentriGuard ventricular catheter meets all neurosurgical requirements for temporary CSF drainage while offering a maximum of infection prophylaxis.

The innovative VentriGuard technology utilizes smallest amounts of ionized silver, which are completely incorporated in a non-metallic porous molecular structure. This unique interaction of material and active ingredient guarantees antimicrobial protection without toxic strain for the patient. Unlike catheters being only coated with antibiotics, VentriGuard products are affecting gram-positive as well as gram-negative bacteria.

As a further key benefit catheter placement with utmost precision is permitted by length markings in intervals of 1 cm and by a mandrin that reaches all the way to the closed tip of the catheter. Catheter dislocation is prevented by a specific connector which is fixed directly onto the scalp.

Ventricular catheter for external drainage with mandrin, catheter connector, spare butterfly and trocar

Ref. No.	Description	I.D. / A.D.	Length	Packaging Unit
60-0200	VentriGuard - Antimicrobial catheter 8.5 F, standard perforation	1.6 x 2.8 mm	30 cm	1 ea/box
60-0214	VentriGuard - Antimicrobial catheter 8.5 F, large perforation	1.6 x 2.8 mm	10 cm	1 ea/box
60-0010	VentriGuard - Antimicrobial catheter 10 F, large perforation	1.8 x 3.3 mm	30 cm	1 ea/box

VentriGuard - Antimicrobial EVD-set

Ref. No.	Description	Packaging Unit
50-0870	VentriGuard - Antimicrobial EVD-system (50-0000) with VentriGuard ventricular catheter 8.5 F (60-0200)	1 ea/box
50-1070	VentriGuard - Antimicrobial EVD-system (50-0000) with VentriGuard ventricular catheter 10 F (60-0010)	1 ea/box

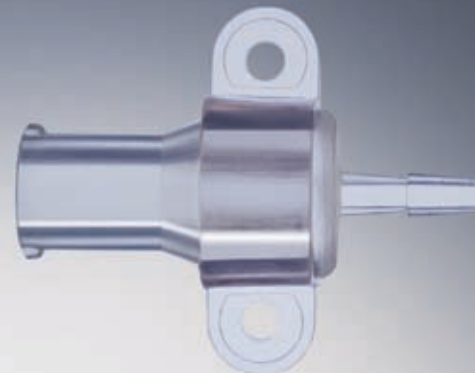
All mentioned products are sterile, double packed and latex free.



Numbered length markers in 1 cm steps



Catheter connector with wings for safe fixation onto the scalp





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