drainova® ArgentiC

The indwelling catheter with microsilve



Antimicrobial effect of the microsilver reduces the risk of infection

Patent pending

Safe drainage of malignant and non-malignant pleural effusion and ascites



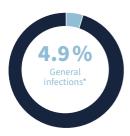
Facts

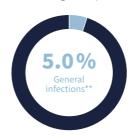


Infections are one of the most common complications of using conventional indwelling catheters.

Pleural effusion

Malignant pleural effusion Non-malignant pleural effusion



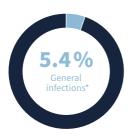


*Source: Fysh et al; Chest 2013

**Source: Patil et al; Chest 2017

Ascites

Malignant ascites



Non-malignant ascites



*Source: Caldwell et al; Baylor University Medical Center Proceedings 2018

**Source: Solbach et al; Journal of Gastroenterology & Hepatology 2017



Antimicrobial effect of microsilver

The medicinal use of silver has a long history. Today, microsilver is used to protect implants against bacteria and fungi in the following areas of medicine, among others:

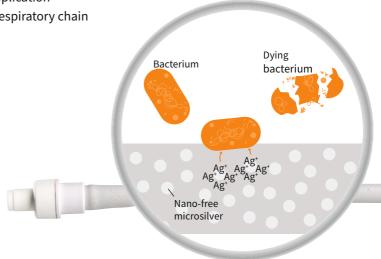
- Wound treatment
- Endoprosthetics
- Ophthalmology
- Catheters

The ArgentiC catheter is made from biocompatible silicone with integrated microsilver. The silver ions have an antimicrobial effect on the catheter surface and reduce the risk of infection without having a systemic effect.

Effect of silver ions on microorganisms

(oligodynamic effect)

- Damage to the cell membrane
- Blocking of DNA replicationDisrupting of the respiratory chain









The tunnelled catheter enables repeated drainage in patients with recurrent pleural effusions or ascites in inpatient and home settings.

Indication

- Malignant pleural effusion
- Non-malignant pleural effusion
- Malignant ascites
- Non-malignant ascites

Advantages

- Fast and efficient relief of symptoms
- Infection reduction
- High rate of spontaneous pleurodesis
- Few episodes of spontaneous bacterial peritonitis (SPB)
- Reduction in hospital stays and readmissions
- Lower costs for the healthcare system





In vitro test results

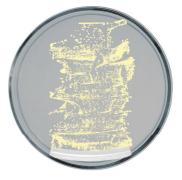
Rollout Test

Tested microbe: Staphylococcus aureus tested in an independent certified laboratory



drainova® ArgentiC catheter

- with micro-silver -



Conventional catheter 1

- silver-free -



Conventional catheter 2

- silver-free -



Conventional catheter 3

- silver-free -



Microbe reduction drainova® ArgentiC catheter

Tested in an independent certified laboratory

Fungi

99.9%

Candida albicans
Cryptococcus neoformans

Gram negative

99.9%

E. coli Klebsiella pneumoniae Pseudomonas aeruginosa

Gram positive

99.9%

Staphylococcus epidermidis Corynebacterium striatum 99.7%

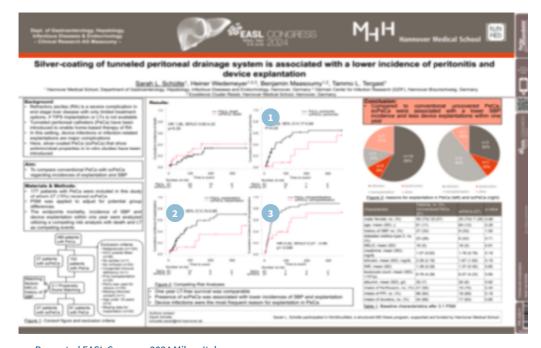
Staphylococcus aureus (MRSA)





Clinical results:

ArgentiC vs. non-silver-containing tunnelled catheters

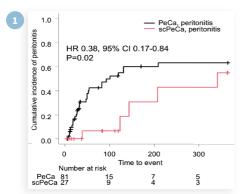


Presented EASL Congress 2024 Milan, Italy



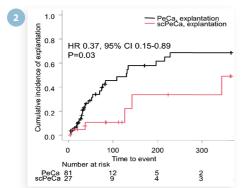
Scan the QR code to see the abstract in the journal "Journal of Hepatology" published on 01/06/2024 (page 220) or at: https://www.easlcongress.eu/ wp-content/uploads/2024/06/Updated-1-EASL _2024_Abstract_version2-1-1.pdf





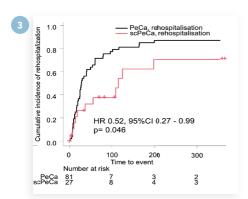
Significantly fewer episodes of spontaneous bacterial peritonitis (SBP)

within one year following implantation



Significantly fewer explantations

of the catheter within one year following implantation



Significantly fewer hospital readmissions within one year following implantation



Product information

drainova® ArgentiC catheter

Material Biocompatible silicone with integrated micro-silver

Connection Safety valve ("lock and key principle" in accordance

with DIN EN ISO 80369-1)

Features Length 66 cm Diameter 15.5 Fr

26 drainage holes Polyester sleeve

Scope of delivery The drainova® ArgentiC is part of the drainova® ArgentiC

catheter kit. The drainova® ArgentiC catheter kit is available

in 3 versions.

- For implantation in malignant and non-malignant pleural effusion and ascites
- Disposable medical device

- Compatible with drainova®, ewimed and PleurX™ drainage systems for clinical and home use
- DEHP and latex-free







Set variants

The drainova® ArgentiC catheter kit is available in the following 3 versions. Please contact us for further information.

Set variant

			Set variant		
		Quantity	compact Art. no. 1240	classic Art. no. 1250	plus Art. no. 1260
Implantation components	drainova® ArgentiC catheter (15.5 Fr, total length 66 cm)	1	•	•	•
	drainova® tunneler	1	•	•	•
	Introducer 16 Fr (16 Fr, length 14 cm)	1	_	•	•
	Syringe 10 ml	1	_	•	•
	Guide wire with J-tip (diameter 0.038" (0.96 mm), length 70 cm)	1	_	•	•
	Surgical drape (70×70cm)	1	_	•	•
	Perforated surgical drape (100×92 cm, hole 8×15 cm)	1	_	_	•
	Surgical scissors	1	_	_	•
	Mayo-Hegar needle holder	1	_	_	•
	Chiraflon needle and thread (HR27 thread USP2/0, length 75 cm)	2	_	_	•
	Scalpel no. 11P	1	_	•	•
	Puncture cannula 18 G	1	_	•	•
Additional material	drainova® Irrigation Tube	1	•	•	•
	drainova® cone adapter	1	•	•	•
	drainova® clickFix	1	•	•	•
Dressing material	Gauze compress	4	_	•	•
	Foam slit compress	1	•	•	•
	Self-adhesive film dressing	1	_	•	•
	drainova® silicone cap, sterile	1	•	•	•











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