REGIONAL ANAESTHESIA & PAIN MANAGEMENT

The Clear Choice in Continuous *Nerve Blocks (CNB)*

Developed together with Dr. Ban Tsui, the E-Cath / E-Cath Plus combines the best from clinical experience and engineering expertise, resulting in a system that addresses the biggest catheter problems in CNBs: complexity, catheter kinking, anaesthetic leakage and catheter dislocation and migration.[1,2,3,4]

→ The results are easier, faster, safer and more reliable continuous nerve blocks and the reduction of workload during postoperative pain management.

Is your traditional catheter system giving you headaches?

LEAKAGE

MISSING 3RD HAND

DIFFICULT TO PLACE

DISLOCATION

TOO MANY STEPS

MIGRATION

KINKING

E-CATH / E-CATH PLUS ADVANTAGES

- Making catheter placement as easy as a single shot
- Reducing the chance of leakage
- Reducing the chance of dislocation and catheter migration[1]
- Reducing the chance of catheter kinking
- Offering an optimised local anaesthetic spread
- Providing optimised ultrasound visiblility of needle tip, needle shaft, and catheter

E-Cath® & E-Cath® Plus

E-Cath

SonoPlex needle with facet tip, indwelling catheter and E-Catheter

Indwelling catheter working length	SonoPlex® needle	E-Catheter	Item no.	NRFit® Item no.	PU	FixoLong	Filter 0.2 µm
18G x 51 mm (2")	21G x 68 mm (2 2/3")	20G	201185-40E	201165-40E	10	•	•
18G x 75 mm (3")	21G x 94 mm (3 2/3")	20G	211185-40E	211165-40E	10	•	•
18G x 83 mm (3 1/4")	21G x 101 mm (4")	20G	241185-40E	241165-40E	10	•	•
18G x 100 mm (4")	21G x 118 mm (4 3/4")	20G	261185-40E		10	•	•
18G x 130 mm (5 2/5")	21G x 150 mm (6")	20G	251185-40E	251165-40E	10	•	•
18G x 150 mm (6")	21G x 168 mm (6 3/5")	20G	271185-40E		10	•	•

E-Cath Plus

SonoPlex needle with facet tip, indwelling catheter and E-Catheter with stylet (beginning 70 mm from tip) and 15 mm extended tip

Indwelling catheter working length	SonoPlex needle	E-Catheter	Item no.	NRFit Item no.	PU	FixoLong	Filter 0.2 µm
18G x 51 mm (2")	21G x 68 mm (2 2/3")	20G	201185-41E	201165-41E	10	•	•
18G x 75 mm (3")	21G x 94 mm (3 2/3")	20G	211185-41E	211165-41E	10	•	•
18G x 83 mm (3 1/4")	21G x 101 mm (4")	20G	241185-41E	241165-41E	10	•	•
18G x 100 mm (4")	21G x 118 mm (4 3/4")	20G	261185-41E		10	•	•
18G x 130 mm (5 2/5")	21G x 150 mm (6")	20G	251185-41E	251165-41E	10	•	•
18G x 150 mm (6")	21G x 168 mm (6 3/5")	20G	271185-41E		10	•	•

NRFit sets with SonoPlex II needle

NRFit is a registered trademark of GEDSA used with their permission.

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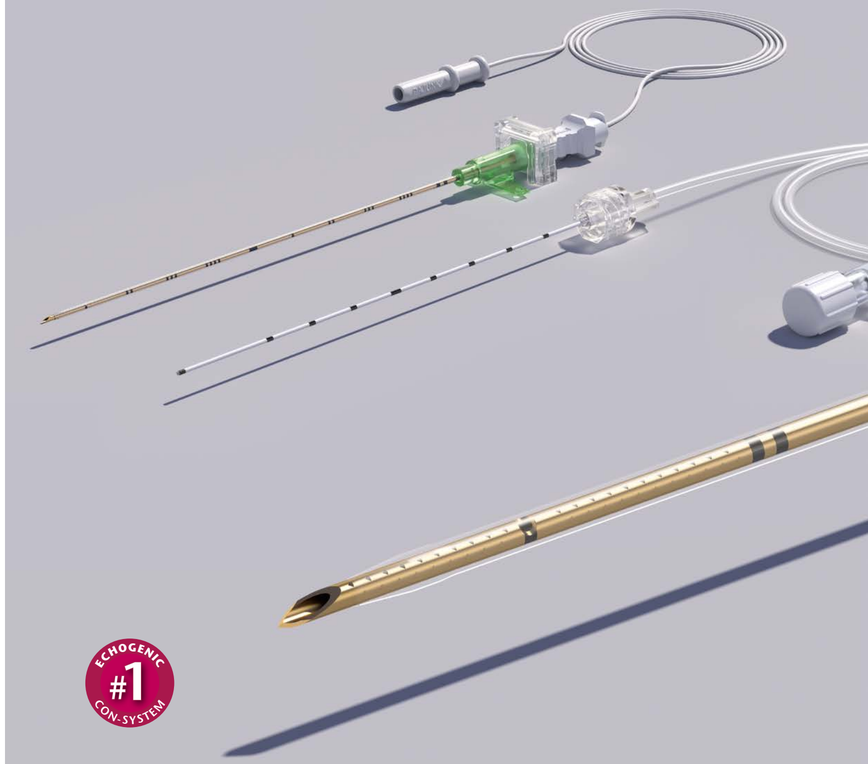
REGIONAL ANAESTHESIA & PAIN MANAGEMENT

E-Cath® & E-Cath® Plus

Echogenic Catheter-Over-Needle
CNB-System



ECHOGENIC #1 CON-SYSTEM

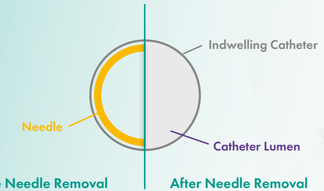
MADE IN GERMANY

Catheter-Over-Needle (CON)
Echogenic CNB-System

Making catheter placement as easy as a single shot.

CATHETER-OVER-NEEDLE (CON) TECHNIQUE

- Significantly reduces the chance of anaesthetic leakage and catheter dislocation or migration[4]



Before Needle Removal
Outer diameter of needle is **smaller** than the outer diameter of the indwelling catheter.

After Needle Removal
The puncture hole is **automatically sealed** reducing chance for leakage and dislocation.

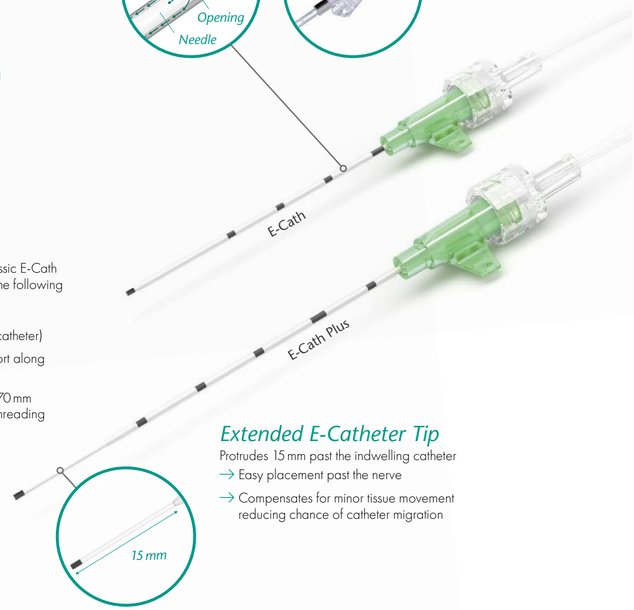
FixClip
→ Ensures a fixed connection between the needle and the indwelling catheter

Soft Tip
→ Reduced chance of nerve damage

Integrated Injection Tube
Reduction of procedural steps
→ Catheter adapter is pre-assembled to the catheter system

Double Layer Catheter Technology
→ Significantly reduces the chance of kinking
→ Allows for consistent anaesthetic flow

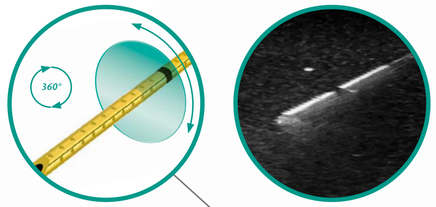
Self Priming System
E-Catheter comes with a proximal opening which allows the anaesthetic to flow, besides the open tip, also between the outer wall and the indwelling catheter
→ Creates 360 degree flow
→ Improves the U/S-visibility

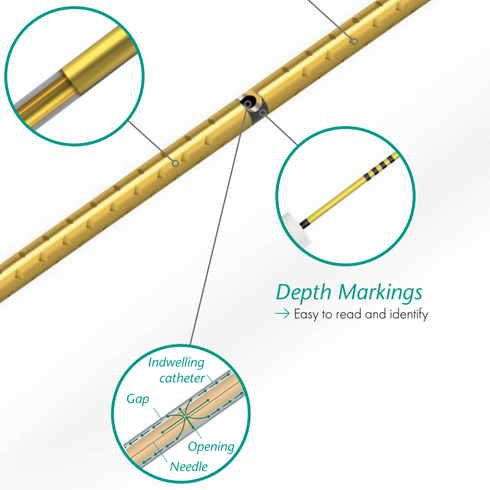


E-Cath Plus
Brings all the benefits of the classic E-Cath system and offers additionally the following features:
→ Longer inner catheter tip (15 mm past the indwelling catheter)
→ Unique 360 degree side port along the 3 lateral openings
→ Integrated stylet beginning 70 mm from tip for easier catheter threading

Extended E-Catheter Tip
Protrudes 15 mm past the indwelling catheter
→ Easy placement past the nerve
→ Compensates for minor tissue movement reducing chance of catheter migration

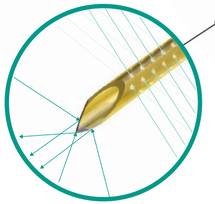
Cornerstone Reflectors
360 degree graduations on the first 20 mm of the needle
→ Optimised ultrasound visibility of needle shaft[5]
→ Reliable and optimised needle visualisation at any angle[6,7]





NanoLine® Coating
Very thin polymer film, smooth surface, accurate inner and outer diameter
→ Excellent puncture and gliding properties through smooth surface
→ Improves visibility under ultrasound[7]
→ Precise stimulation through the non-insulated needle tip

Depth Markings
→ Easy to read and identify



Echogenic Needle Tip
Facet tip with two inclination angles
→ Improves needle tip visibility under ultrasound

Self Priming System
Needle comes with a distal opening which allows the anaesthetic to flow, besides the needle tip, also between the outer needle wall and the indwelling catheter
→ Improves ultrasound visibility

ISO LUER ISO NRFit®

Also available in NRFit®

1. **Ip V. H. Y. et al.** The catheter-over-needle assembly offers greater stability and less leakage compared to the traditionalcounterpart in continuous interscalene nerve blocks: a randomized, patient-blinded study, Can. J. Anesth. 2013; 60: 1272–1273
2. **Ip V. H. Y. et al.** The safety of an interscalene catheter-over-needle technique, Anesth. 2013; 68: 774–775
3. **Herring, A. A. et al.** Emergency department placement of perineural catheters for femoral fracture pain management, Am. J. Emerg. Med. 2014; 32(3), 287: 1–3
4. **Tsui B. C. H. et al.** Less leakage and dislodgement with a catheter-over-needle versus a catheter through-needle approach for peripheral nerve block: an ex vivo study, Can. J. Anesth. 2012; 59: 655–660 (E-Cath is called Multi-Set in this study)
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6. **Uppal V. et al.** Effect of beam steering on the visibility of echogenic and non-echogenic needles: a laboratory study, Can. J. Anesth. 2014 Oct; 61 (10): 909–915
7. **Hebard S., Hocking G.** Echogenic technology can improve needle visibility during ultrasound-guided regional anesthesia, Reg. Anesth. Pain Med. 2011 March–April; 36(2): 185–189