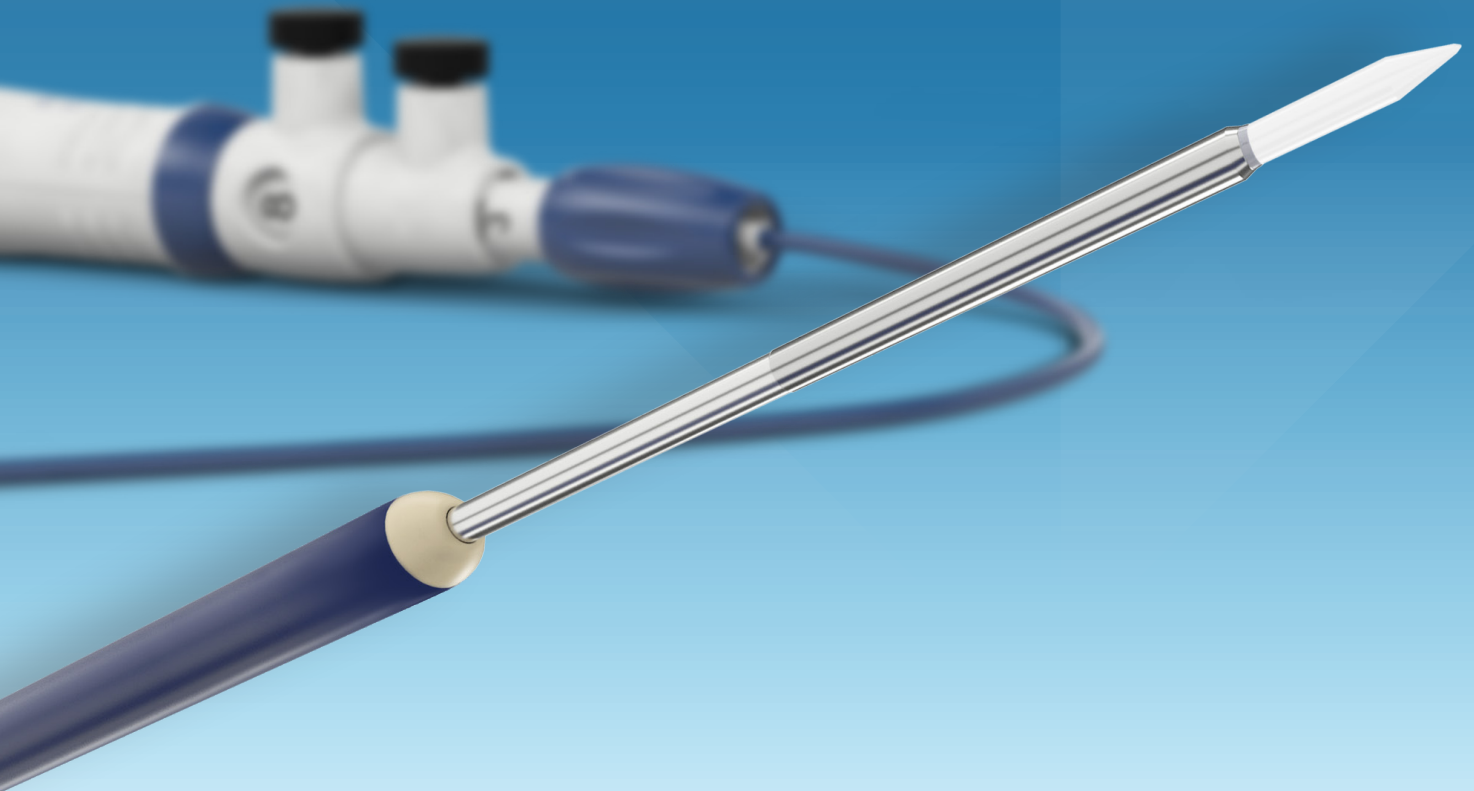




MicroBlate™
Fine

**The smallest diameter microwave device
for the ablation of soft tissue**

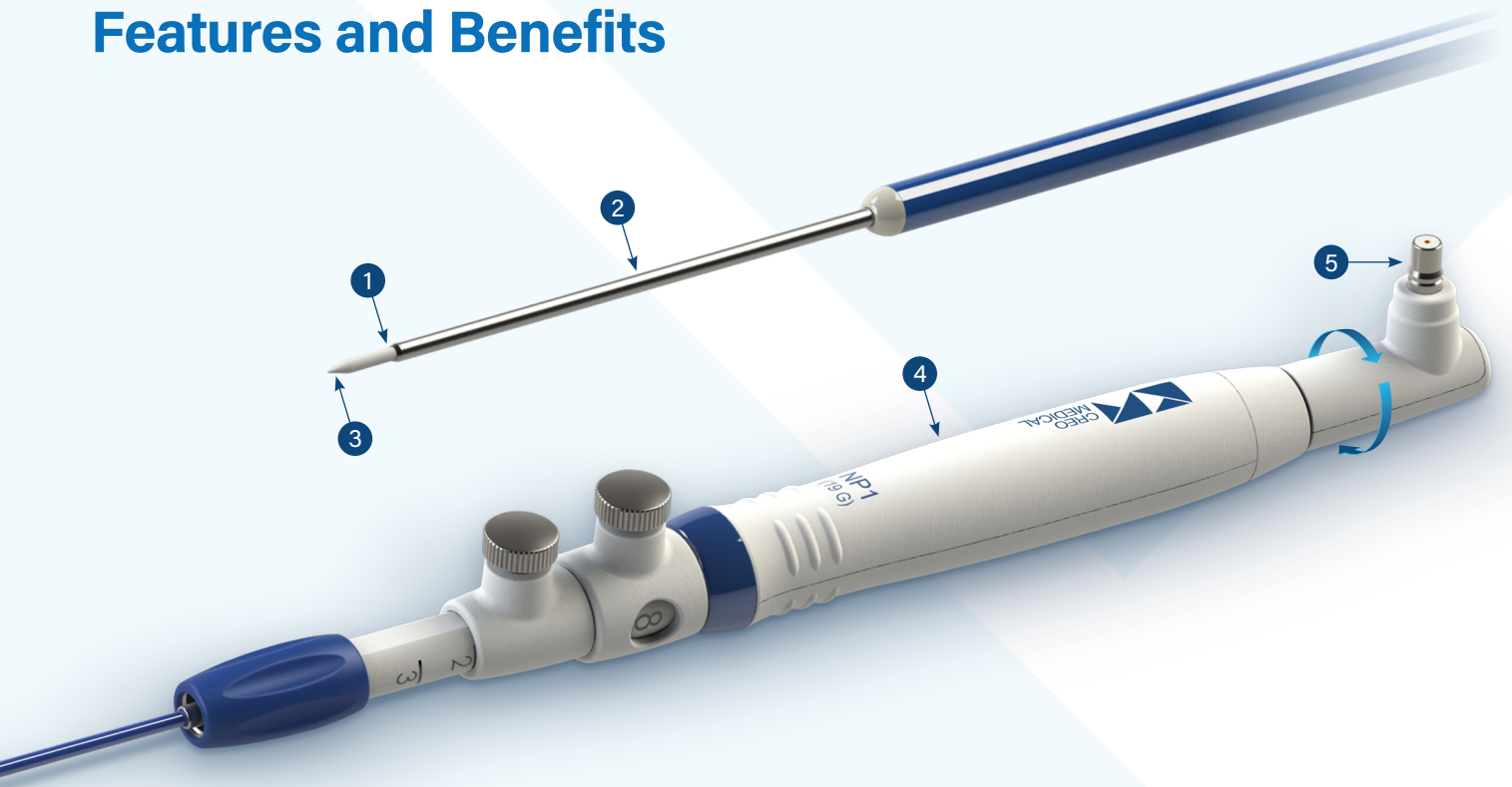


Introducing MicroBlate™ Fine

MicroBlate Fine is the smallest diameter microwave energy needle for the ablation of soft tissue¹ to be used under Endoscopic Ultrasound (EUS) guidance. MicroBlate Fine is also the first advanced energy needle designed for flexible endoscopy that delivers microwave ablation at 5.8 GHz without the need for additional complexity such as return pads or cooling systems.

The procedural use of the needle is similar to that of a standard FNA intervention which supports placement of the needle through a therapeutic EUS endoscope into the target tissue.

Features and Benefits



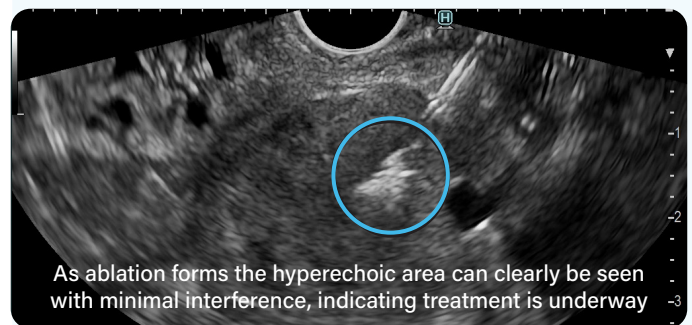
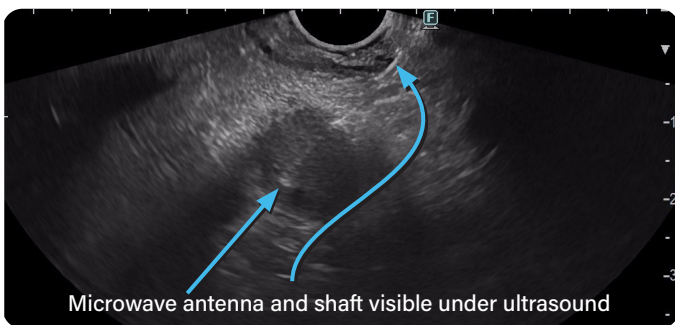
Feature	Benefit
1 Super high frequency microwave 5.8 GHz	Unique, patented 5.8 GHz energy provides controlled depth of penetration for focused & targeted ablation into soft tissue with minimal impact from changes in tissue resistance or blood flow distributing heat evenly across the treatment area
2 Super flexible 19 G nitinol needle	Standard-sized, small diameter flexible needle for EUS-guided ablation which retains its original shape after bending enabling accuracy for multiple ablations
3 Sharp ceramic tip with non-stick coating	Allows smooth penetration into tissue under EUS visualisation and minimises tissue sticking during treatment and retraction
4 Designed to the same form and handling as a standard EUS-FNA needle	Ease of use for clinicians familiar with EUS-guided fine needle biopsies provides additional user comfort and confidence
5 Heat management by device design and The CROMA Advanced Energy Platform waveform control	Reduced setup complexity without the need of additional cooling equipment (pumps, accessories, saline)

The MicroBlate Fine Advantage

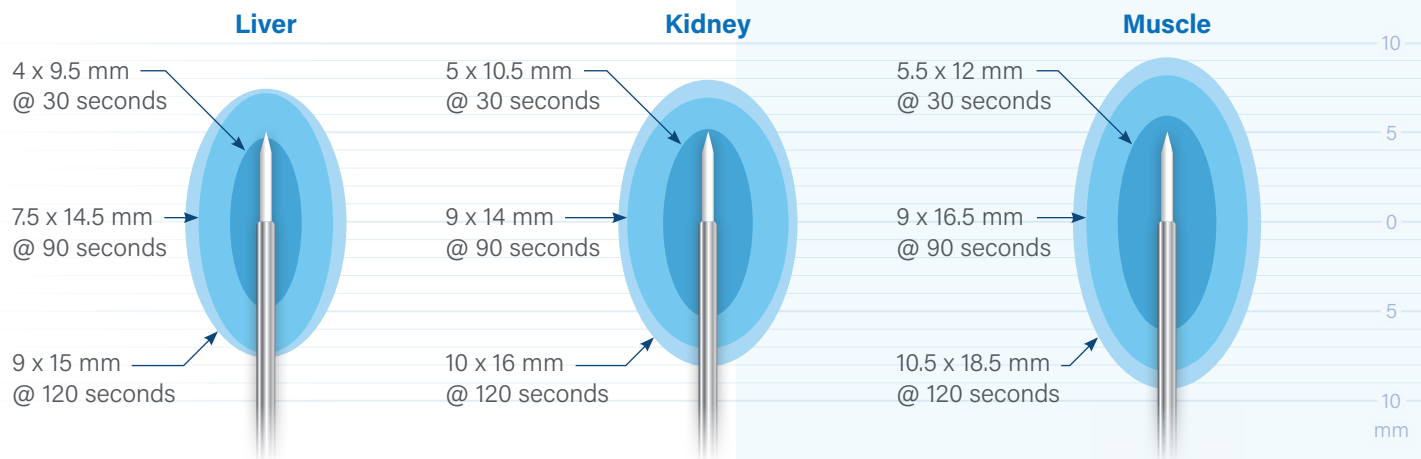
- Better controlled & focused energy delivery by super high frequency microwave
- Effectiveness of microwave ablation is less susceptible to heat sink effect than monopolar radiofrequency²⁻³
- EUS-guided microwave ablation (EUS-MWA) with a 19 G flexible needle (first-in-market)
- Smooth penetration into target lesion under EUS visualisation with minimal tissue sticking
- Familiar needle handling
- Reduced setup complexity

EUS-Guided Treatment

MicroBlate Fine provides a novel treatment option to ablate tissue under real-time endoscopic ultrasound (EUS) guidance using a therapeutic EUS endoscope.



MicroBlate Fine Ablation Zones⁴



CROMA Advanced Energy Platform



Creo Medical's innovative Kamaptive™ Technology combines multiple energy sources within our CROMA Energy Platform to optimise without compromise and provide unrivalled capability to Therapeutic Endoscopy.

The CROMA Energy Platform precisely controls **Microwave** and Advanced Bipolar RF energy to enable a suite of flexible, miniature endoscopic devices to deliver:

- unrivalled **usability and safety**⁵
- **optimal tissue effect**⁵
- **improved clinical and economic outcomes**⁵
- **expanded capabilities** in therapeutic endoscopy

Utilising CROMA and MicroBlate Fine, super high frequency 5.8 GHz microwave energy is used to ablate lesions with precise control of thermal energy and depth of penetration.

MicroBlate Fine Specifications

MicroBlate Fine is intended for use in coagulation (ablation) of soft tissue.

Product code	7-NP1-100
Shaft length	1400 mm
Shaft diameter	2.7 mm
Max. antenna length	80 mm
Antenna diameter	1.0 mm (19 gauge)
Tip length	5.0 mm
Tip diameter	0.77 mm (22 gauge)
Operating frequency	5.8 GHz
Patient Circuit	Type BF


References


1. Based on expert knowledge. Data on file.
2. Brace CL, Laeseke PF, Sampson LA, Frey TM, van der Weide DW, Lee FT Jr. Microwave ablation with a single small-gauge triaxial antenna: in vivo porcine liver model. *Radiology* 2007; 242(2): 435-40. <https://doi.org/10.1148/radiol.2422051411>
3. Poulou, Loukia S *et al.* Percutaneous microwave ablation vs radiofrequency ablation in the treatment of hepatocellular carcinoma. *World Journal of Hepatology* vol. 7,8 (2015): 1054-63
4. Ablation volume from ex vivo porcine model. Data on file.
5. Data on file.

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Creo Medical Limited
Unit 2, Creo House
Beaufort Park
Beaufort Park Way
Chepstow NP16 5UH
United Kingdom

+44 (0) 1291 637 300

customerservice@creomedical.com

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