# CLINIPORATOR® TECHNOLOGY FOR CARE



THE MOST ADVANCED ELECTROPORATION TECHNOLOGY



#### REVERSIBLE ELECTROPORATION

#### **CHARACTERISTICS**

- · Non-thermal technique
- · Percutaneous minimally invasive procedure
- Tissue sparing: nerves and vessels within the treated area are preserved
- · Objective Response Rates higher than 80%
- Promotes pain relief
- Improves patient's Quality of Life
- · Repeatable treatment
- · Can easily be performed in open surgery

#### **ELECTRODES**

#### **CUSTOMISABLE NEEDLE GEOMETRY**

The electrical pulses are delivered through needle electrodes (VGD series) individually positioned in order to enclose lesions under fluoroscopic, CT or ultrasound guidance. VGD electrodes are supplied sterile and for single use.



#### VGD SERIES NEEDLES

CHARACTERISTICS

- · Needle diameter: 0,8 mm (21G), 1,2 mm (17G) or 1,8
- · Length of needles and of active parts: See Table 3
- · Stainless steel AISI 304
- · Insulating sheath
- · Echogenic sandblasted tip
- · Needle insertion depth marker



#### **SPACERS**

Supplied sterile with needle electrodes.

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#### PRE-SET NEEDLE GEOMETRY

Designed for the treatment of cutaneous, subcutaneous, mucosal or deep lesions.

#### ADJUSTABLE ELECTRODES

Depth of needle penetration can be adjusted in 5mm increments.. Linear and hexagonal geometry available, either partially insulated or all active.



#### FINGER ELECTRODES

For cutaneous sites and anatomical cavities which are of small size and difficult to access. Maximum tactile sensitivity and gentle on tissue.





### SINGER ELECTRODES

Semi-flexible shaft and expandable needles for endoscopic or laparoscopic approach.



## CLINIPORATOR TECHNOLOGY FOR CARE

The most advanced reversible electroporation technology for the treatment of lesions located to the skin, parenchyma, soft tissue and bone.





#### Pulse Generator

CLINIPORATOR® VITAE can deliver electrical pulses both with needle electrodes freely positioned in a CUSTOM geometry and with multiple needle electrodes configured in a PRE-SET geometry.

### **ECG** Synchronisation

Using the R-wave detector, electrical pulses are delivered during the absolute refractory period of the heart.



## TABLE 1 DEVICES AND ACCESSORIES PRODUCT MODEL (#) REF. DESCRIPTION DEVICE CLINIPORATOR® VITAE VGP02 IG0012A Pulse generator for reversible electroporation ACCESSORIES NORAV 1200T IG0016A Cardiac synchroniser

#### TABLE 2 PRE-SET GEOMETRY - ELECTRODES AND ACCESSORIES

	PRODUCT	MODEL (#)	REF.	DESCRIPTION	
	STINGER ELECTRODES EGPS SERIES	E-L2-00-S4-2	IG0E801	Endoscopic electrode, not divergent, Ø 5 mm, active part 20 mm, maximum exposure 40 mm	
ELECTRODES		E-X2-00-S4-2	IG0E803	Endoscopic electrode, not divergent, Ø 10 mm, active part 20 mm, maximum exposure 40 mm	
		E-L2-10-SA-B	IG0E821	Endoscopic electrode, divergence 10°, $\phi$ 5 mm, active part 15 mm, maximum exposure 25 mm	
		E-L5-00-S4-2	IG0E805	Laparoscopic electrode, not divergent, $\phi$ 5 mm, active part 20 mm, maximum exposure 40 mm	
		E-L5-10-SA-B	IG0E841	Laparoscopic electrode, divergence 10°, $\phi$ 5 mm, active part 15 mm, maximum exposure 25 mm	
		L-30-ST	IG0E070	Set of 5 adjustable electrodes, linear geometry, maximum needle exposure 30 mm	
	ADJUSTABLE ELECTRODES EPSA SERIES	H-30-ST	IG0E050	Set of 5 adjustable electrodes, hexagonal geometry, maximum needle exposure 30 mm	
		L-40-IN	IG0E080	Set of 5 adjustable electrodes, linear geometry, maximum needle exposure 40 mm, partially insulated with 2 cm active part at the tip	
		H-40-IN	IG0E060	Set of 5 adjustable electrodes, hexagonal geometry, maximum needle exposure 40 mm, partially insulated with 2 cm active part at the tip	
	FINGER ELECTRODES NFD SERIES	F-10-NL	IG0E370	Finger Electrode, needle length 10 mm in longitudinal direction	
		F-20-NL F-15-NO	IG0E380 IG0E375	Finger Electrode, needle length 20 mm in longitudinal direction Finger Electrode, needle length 15 mm in orthogonal direction	
F	GREEN HANDLE		IG0M915	Handle for hexagonal electrode EPS series	
HANDLES	BLUE HANDLE		IG0M910	Handle for linear and plate electrodes EPS series	
ELECTRODES	HEXAGONAL ELECTRODES EPS SERIES	N-10-HG	IG0E100	Set of 5 electrodes, hexagonal geometry, needle length 10 mm	
		N-20-HG	IG0E102	Set of 5 electrodes, hexagonal geometry, needle length 20 mm	
		N-30-HG	IG0E104	Set of 5 electrodes, hexagonal geometry, needle length 30 mm	
	LINEAR ELECTRODES EPS SERIES	N-10-4B	IG0E150	Set of 5 electrodes, linear geometry, needle length 10 mm	
		N-20-4B	IG0E152	Set of 5 electrodes, linear geometry, needle length 20 mm	
		N-30-4B	IG0E154	Set of 5 electrodes, linear geometry, needle length 30 mm	
	PLATE ELECTRODES EPS SERIES	P-30-8B	IG0E251	Set of 5 electrodes, plate, length 30 mm	

#### TABLE 3

#### **CUSTOM GEOMETRY - VGD SERIES ELECTRODES**

	DIAMETER	TOTAL LENGTH	MAX. INSERTION LENGTH	ACTIVE PART	REF.	DESCRIPTION	
SOFT TISSUE	0,8 mm (21G)	20 cm	16 cm	20 mm 30 mm	IG0E737 IG0E738	Set of 4 electrodes, individually packed	
				20 mm 30 mm	IG0E753 IG0E754	Set of 6 electrodes, individually packed	
	1,2 mm (17G)	12 cm	7 cm	20 mm 30 mm	IG0E701 IG0E702		
		16 cm	11 cm	30 mm 40 mm	IG0E706 IG0E707	Set of 6 electrodes, individually packed	
		20 cm	15 cm	30 mm 40 mm	IG0E710 IG0E711		
		24 cm	18 cm	30 mm	IG0E714		
		12 cm	6 cm	20 mm 30 mm 40 mm	IG0E717 IG0E718 IG0E719		
BONE	1,8 mm (15G)	16 cm	10 cm	20 mm 30 mm 40 mm	IG0E721 IG0E722 IG0E723	Set of 6 electrodes, individually packed	
		20 cm	14 cm	30 mm 40 mm	IG0E726 IG0E727		

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