



naudojami perkutaniniu ir laparoskopiniu būdu ir atviruoju chirurginiu būdu

# CLINIPORATOR™ VITAE

CLINIPORATOR™ VITAE is the most advanced electroporation technology for treatment of tumour nodules located to the skin, subcutaneous tissue, parenchyma and bone.

## ELECTROCHEMOTHERAPY CHARACTERISTICS

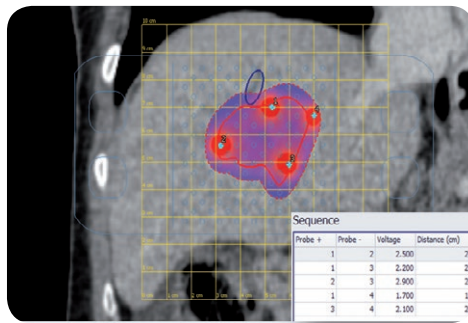
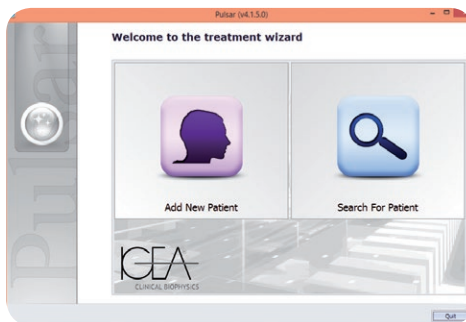
- Non-thermal tumour ablation
- Minimally invasive procedure
- Can be easily performed during open surgery
- Tissue sparing technique: nerves and vessels within the ablated area are preserved
- Objective Response Rate higher than 80%
- Pain relief
- Improves patient's Quality of Life
- Repeatable treatment

## PULSE GENERATOR

CLINIPORATOR™ VITAE delivers the electric pulses through individual needle electrodes which allow a **CUSTOM** geometry or multiple needles electrodes joined in a **PRE-SET** geometry.

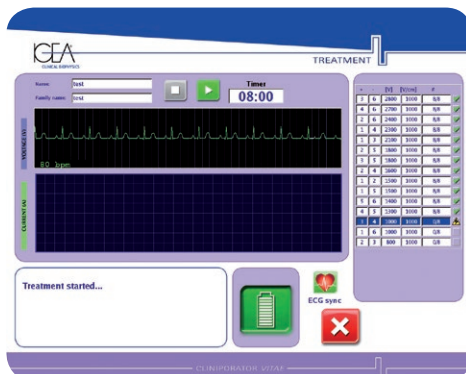
## PRE-OPERATIVE PLANNING

Treatment with CLINIPORATOR™ VITAE is planned with proprietary software PULSAR® which shows where to position the electrodes and the required electric field amplitude to effectively electroporate tumour cells.



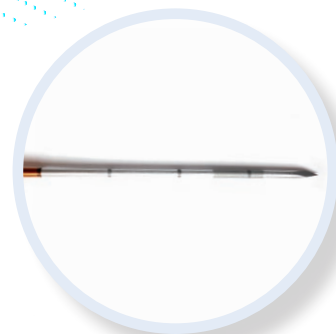
## PULSE SYNCHRONIZATION

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



## NEEDLE ELECTRODES

The electric pulses are delivered through individual needle electrodes (VGD series) positioned around or within BONE or VISCERAL lesions under Brilliant Viewer Guidance, CT Scan or Ultrasound Guidance. VGD electrodes are supplied sterile and for single use. ✓ **Matomi KT, UG**



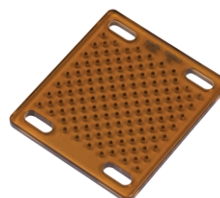
### VGD NEEDLE CHARACTERISTICS

- Needle diameter: 1.2 mm (17 G) or 1.8 mm (15 G)
- Needle lengths and active parts: table 2
- Stainless steel AISI 304 ✓ **Pagaminti iš nerūdijančio plieno**
- Insulating sheath ✓ **Dengti izoliacine danga**
- Echogenic sandblasted tip ✓ **Echogeniški**
- Stripes marker 360° ✓ **Gylio žymės išdėstytos 360 laipsnių kampu**
- Trocar tip ✓ **Trokaro tipo galiuko**

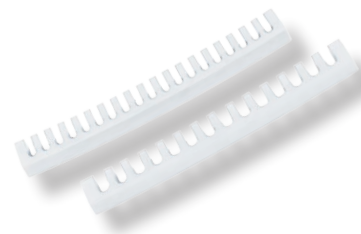
### VGD Accessories



**Mask**  
• X-ray markers  
• Sterilizable with steam



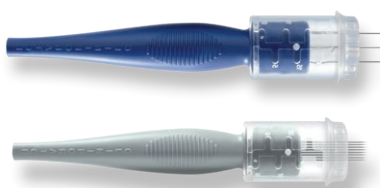
**Square mask**  
• Sterilizable with steam



**Spacers**  
• Supplied sterile with needle electrodes

## MULTIPLE NEEDLE ELECTRODES

Designed for electroporation of cutaneous lesions, mucosa and subcutaneous tumour nodules up to a depth of 3 cm.



*Adjustable Electrodes (Linear and Hexagonal FIXED geometry)*



*Finger electrodes for the treatment of nodules in cavities*



**TABLE 1 PRE-SET GEOMETRY – Electrodes and Accessories**

PRODUCT	CODE	REF.	DESCRIPTION
<b>CLINIPORATOR VITAE</b>	IG0012A	VGP02	Electroporator for electrochemotherapy
<b>ADJUSTABLE ELECTRODES</b>	IG0E070	L-30-ST	Box of 5 adjustable electrodes, linear 30 mm
	IG0E050	H-30-ST	Box of 5 adjustable electrodes, hexagonal 30 mm
<b>FINGER ELECTRODES</b>	IG0E350	F-05-LG	Finger electrode 5 mm/longitudinal
	IG0E360	F-10-LG	Finger electrode 10 mm/longitudinal
	IG0E361	F-10-OR	Finger electrode 10 mm/orthogonal
<b>GREEN HANDLE</b>	IG0M915		Handle for hexagonal electrodes
<b>ELECTRODES</b>	IG0E100	N-10-HG	Box of 5 electrodes hexagonal 10 mm
	IG0E102	N-20-HG	Box of 5 electrodes hexagonal 20 mm
	IG0E104	N-30-HG	Box of 5 electrodes hexagonal 30 mm
<b>BLUE HANDLE</b>	IG0M910		Handle for linear electrodes
<b>ELECTRODES</b>	IG0E150	N-10-4B	Box of 5 electrodes linear 10 mm
	IG0E152	N-20-4B	Box of 5 electrodes linear 20 mm
	IG0E154	N-30-4B	Box of 5 electrodes linear 30 mm
	IG0E251	P-30-8B	Box of 5 electrodes plate 30 mm
<b>ACCUSYNC 42</b>	IG0015A		Cardiac synchronizer
<b>PULSAR</b>	IG0SW01		Software for pre-operative planning
<b>X-RAY MASK</b>	IG0S511		VGD 1.8 mm (15 G) needle
<b>SQUARE MASK</b>	IG0S512		VGD 1.2 mm (17 G) needle

**TABLE 2 CUSTOM GEOMETRY – Series VGD Electrodes****SOFT TISSUES – Set of 6 needle electrodes (VGD): 1.2 mm (17 G)**

NEEDLE LENGTH	ACTIVE PART		
	20 mm	30 mm	40 mm
12 cm	Code IG0E701	Code IG0E702	-
16 cm	-	Code IG0E706	Code IG0E707
20 cm	-	Code IG0E710	Code IG0E711
24 cm	-	Code IG0E714	-

**BONE– Set of 6 needle electrodes (VGD): 1.8 mm (15 G)**

NEEDLE LENGTH	ACTIVE PART		
	20 mm	30 mm	40 mm
12 cm	Code IG0E717	Code IG0E718	Code IG0E719
16 cm	Code IG0E721	Code IG0E722	Code IG0E723
20 cm	-	Code IG0E726	Code IG0E727

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