

**Minimally invasive
BPH cryoremodeling
CRYO-S Electric II**



BPH CRYOREMODELING



New Treatment

New treatment in urological surgery

BPH cryoremodeling – new, transperineal treatment of patients with BPH. Cryosurgery as prostate treatment is gaining favor among patients and doctors. It is minimally invasive what significantly decreases possibility of complications and risk of inflammation after the procedure. EBM and doctors' experiences show, that cryosurgery can be more effective and less expensive than TURP method in selected patients.

How prostate cryoremodeling is performed

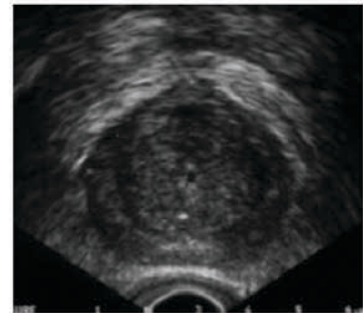
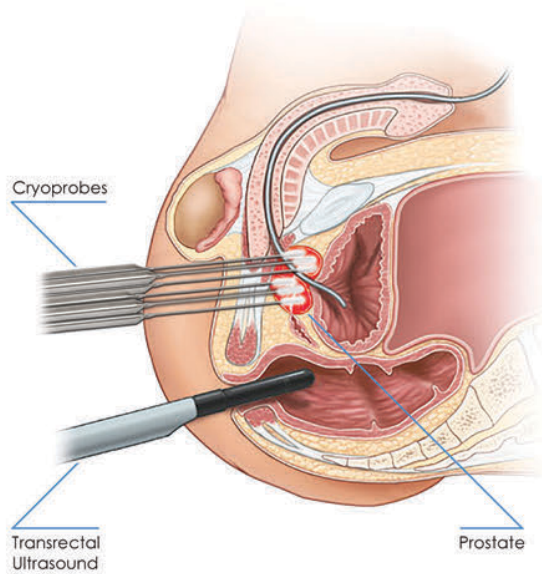
Surgeon inserts several thin cryoprobes (1 to 6) through the perineum into prostate. An ultrasound probe placed in rectum allows the surgeon to see the prostate and surrounding tissue, what assures proper placement of cryoprobes. N₂O or CO₂ gas used as cooling medium rapidly decreases temperature of cryoprobes in tissue to about -40°C. Low temperature creates ice balls, that freeze the entire target area of prostate. After freezing, prostate is passively thawed what takes around 5 minutes. Whole freezing-thawing procedure lasts 30 minutes.

Usually patient may return home the same day.

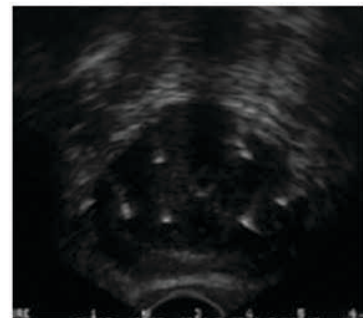
STRAIGHT TO EXCELLENCE

Advantages of BPH cryoablation

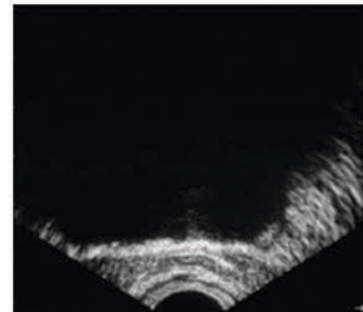
- Can be applied irrespective of patients' health conditions or age
- Can be performed in local anesthesia or local anesthesia with light sedation
- Gives less complications: no bleeding, no stenosis, no liquid reabsorption
- Enables preserve ejaculation



before



during



after

4 Quadrieffecta of BPH cryoremodeling

- Flow is increased
- Continence is fully maintained
- Potence remains unchanged
- Erection remains unchanged

DESIGNED FOR ACCURACY & SAFETY

Cryo-S Electric II

CE 2274

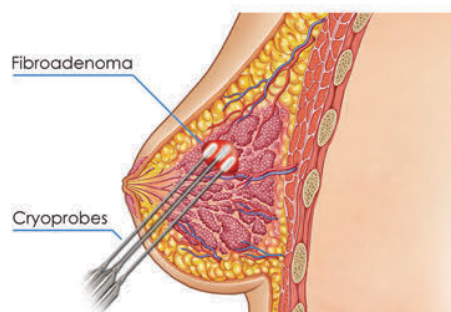
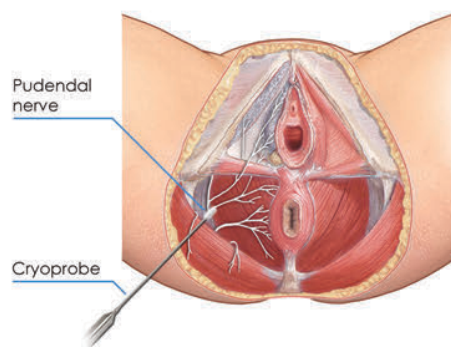


Advantages of using Cryo-S Electric II device in BPH treatment and oncology

- CO₂ or N₂O used as cooling medium are commonly available on the market as gases for laparoscopy and anesthesiology
- wide variety of cryoprobes (different diameter starting from 0.8 mm and different length of probes' freezing part) allows to maximize treatment options
- reusable cryoprobes can be sterilized in steam, gas or plasma
- low cost of entire procedure

Other indications of cryosurgery with the use of Cryo-S Electric II in urology, gynecology and oncology:

- skin mucosal lesions (condyloma, angiomas, epithelioma, basalioma, etc.) no anesthesia required
- pain management (pelvic pain)
- overactive bladder
- premature ejaculation
- stenosis of urethra
- fibroma of penis (Peyornie's disease)
- breast fibroadenoma



CRYOPROBES FOR CRYO-S ELECTRIC II

Urological cryoprobe



GAS TYPE	STERILIZATION METHOD	STERILIZATION METHOD	STERILIZATION QUANTITY	RFID	LIFETIME

REF. 0720122500

Triangular tip*, \varnothing 2.0mm (14Ga), freezing length 25mm

REF. 0720123500

Triangular tip*, \varnothing 2.0mm (14Ga), freezing length 35mm

REF. 0720124500

Triangular tip*, \varnothing 2.0mm (14Ga), freezing length 45mm

Angular cryoprobe



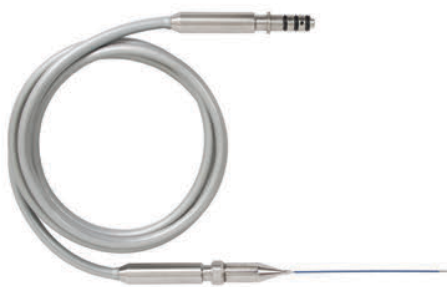
GAS TYPE	STERILIZATION METHOD	STERILIZATION METHOD	STERILIZATION QUANTITY	PNS	RFID	LIFETIME

REF. N16300200 Triangular tip*, \varnothing 2.0mm (14Ga), length 120mm

REF. N16131200 Triangular tip*, \varnothing 1.3mm (18Ga), length 100mm

REF. N16131210 Round tip**, \varnothing 1.3mm (18Ga), length 100mm

Straight, detachable cryoprobe



GAS TYPE	STERILIZATION METHOD	STERILIZATION METHOD	STERILIZATION QUANTITY	PNS	RFID	LIFETIME

REF. N06080921 Needle tip***, \varnothing 0.8mm (21Ga), length 90mm

REF. N06080421 Needle tip***, \varnothing 0.8mm (21Ga), length 40mm

REF. N06131201 Triangular tip*, \varnothing 1.3mm (18Ga), length 100mm

REF. N06131211 Round tip**, \varnothing 1.3mm (18Ga), length 100mm

REF. N06300201 Triangular tip*, \varnothing 2.0mm (14Ga), length 120mm

Single use, sterile cryoprobe



GAS TYPE	READY TO USE	SINGLE USE	DUAL PACKING	PNS	RFID	LIFETIME

REF. SN06080920 Needle tip***, \varnothing 0.8mm (21Ga), length 90mm

REF. SN06131200 Triangular tip*, \varnothing 1.3mm (18Ga), length 100mm

REF. SN06300200 Triangular tip*, \varnothing 2.0mm (14Ga), length 120mm

* triangular tip	** round tip	*** needle tip
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All our cryoprobes are visible in the ultrasound image, they are hyperechogenic.

*we are inspired
by your expectations*

Metrum CryoFlex

Metrum CryoFlex is a recognized manufacturer of highly specialized medical devices for laser medicine, cryosurgery, cryotherapy, pressotherapy and ozone therapy.

Engineers from our R&D department are passionate people focused on constant development and setting new standards in medical technology.

Our goal is to achieve maximal safety, effectiveness and comfort of the procedures both for doctors and patients.

Devices manufactured in **Metrum CryoFlex** meet the requirements of the **European Medical Directive MDD/93/42/EEC** and are **CE-marked** by TUV.

Medical Devices Manufacturer
all devices are manufactured in accordance with
quality management system ISO 13485:2012

 **Metrum CryoFlex**
www.metrum.com.pl



ISO
EN ISO 13485:2012

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