C2 NerveMonitor
APPLICATION FIELD
Rectal surgery

Pelvic neuromonitoring
After more than twelve years of clinical research, it is now possible to localize the complex nerve structures of the autonomic nervous system in the pelvis minor and monitor their function by using the German patented pIOM® technology.

Many interventions in the field of colorectal surgery which pose a risk to the complex autonomic nervous system are possible as fields of application (e.g. total mesorectal excision and resection rectopexy).

APPLICATION EXAMPLE: TME

The pelvic neuromonitoring is a useful addition to the method of total mesorectal excision (TME). The pIOM® technology allows a more gentle surgery especially for the nerves than the normally used maximal resection.

Better quality of life for patients after surgical interventions in the pelvis minor

Statistics for postoperative anorectal and urogenital functional disorders show that a majority of patients suffer from incontinence and sexual dysfunction after surgical interventions in the pelvis minor.¹

RECTAL cancer is one of the most common forms of cancers worldwide. pIOM® technology can help preserve the functions inside the pelvis minor after surgery despite invasive therapy.²

Wizard structure

The user is guided through the intraoperative monitoring process step by step, beginning with entering the patient’s data:

1. Entry of patient data
2. Selecting type of electrode
3. Placing pressure sensor
4. Electrode placement
5. Measurement
6. Documentation
7. Report
Measurement mode

The anorectal function is monitored in realtime: needle electrodes are placed in the internal and external anal sphincter. Alternatively, a non-invasive rectal electrode can be used for easier pre-operative preparation.

The urinary function is monitored with the help of a pressure sensor which is placed as a complete connection set between the urinary catheter and the urine bag.

Stimulation of the pelvic nerves is carried out using a specially developed hand probe. The surgeon can localize the individual nerve branches and monitor their function.

If any activity occurs, the surgeon will be notified immediately visually and acoustically. Different events are processed and visualised quickly and easily in the form of coloured bars. At the same time, the electrical current flow is continuously indicated acoustically during stimulation.

Documentation

C2 piOM® Software automatically stores all events and comments and lists them in the report. The user can therefore review each individual stimulation response at any time, also retrospectively.
Art.-No. 508 240
*C2 NerveMonitor 4-channel system*

Art.-No. 508 280
*C2 NerveMonitor 8-channel system*

for intraoperative nerve monitoring. Easy to use EMG monitor with two integrated stimulation channels, loudspeaker, footswitch and mains lead.

Art.-No. 508 513
*pIOM® Software Module for C2*

provides automated functions for EMG monitoring, bladder pressure measurement and direct nerve stimulation during pelvic surgery, applicable to C2 software version 4.0 or higher.

Art.-No. 520 335
*pIOM® Set with SDN electrodes*

complete set consisting of a catheter connection set for bladder pressure measuring, SDN electrodes, fork probe 400mm

› single-use only
› ETO-sterilized

Art.-No. 520 336
*pIOM® Set with rectal electrode*

complete set consisting of a catheter connection set for bladder pressure measuring, rectal electrode, fork probe 400mm

› single-use only
› ETO-sterilized

Art.-No. 520 300
*pIOM® Box for bladder pressure measuring*

with 1.5mm female touchproof connector, USB powered

› for connection to IONM devices
› delivered non-sterile
› non-autoclavable
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[FURTHER LITERATURE]