

C2 NerveMonitor

APPLICATION FIELD

Vascular surgery
» Carotid artery

SEP



Somatosensory evoked potentials



C2 NerveMonitor

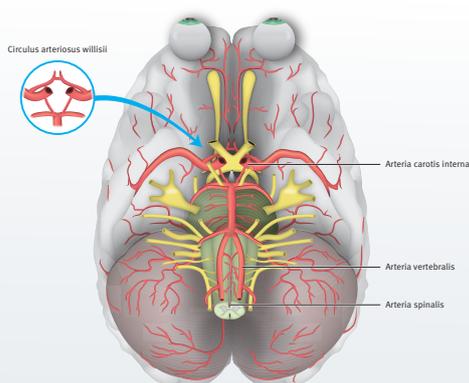
Neuromonitoring in carotid artery surgery

Detect critical changes of the cortical blood supply in time

inomed provides the C2 NerveMonitor with its special C2 SEP Software module for efficient neuromonitoring during carotid artery surgery. Due to its high signal quality and user-friendly operation, the C2 NerveMonitor is already being used in a large variety of surgical disciplines.

SEP monitoring during carotid artery surgery shows the beginning of cerebral ischaemia.

During carotid artery surgery, recording of somatosensory evoked potentials (SEPs) is recommended for monitoring neuronal electrical activity. It supports detecting an inadequate blood supply of the brain hemispheres. If the SEP amplitude changes while clamping the carotid artery, it can be an indication of ischaemia. An amplitude reduction by 50% in comparison to the baseline amplitude prior to clamping is considered a sign that ischaemia is occurring.¹



FEATURES

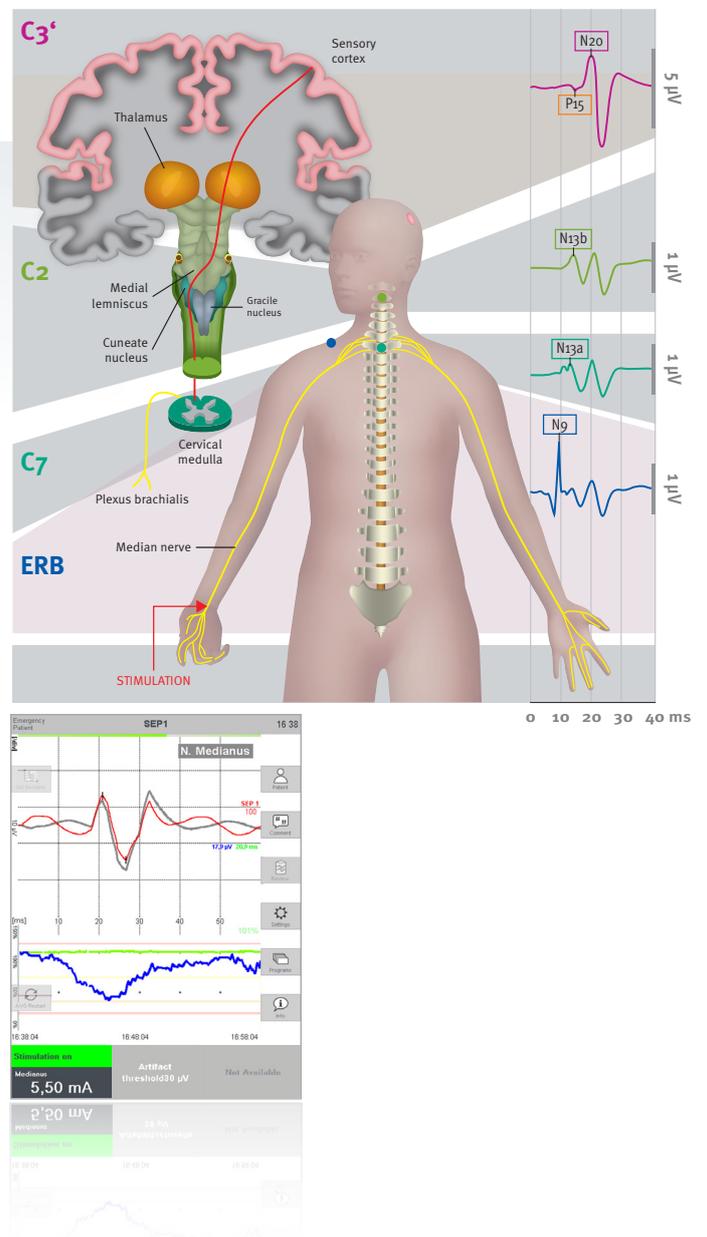
- » Specially developed software for SEP testing
- » Clear view of SEP signals
- » Floating averaging process
- » Intuitive display of averages
- » Configurable warning thresholds for latency and amplitude changes
- » Integrated database
- » Easy-to-use
- » Continuous and automated impedance monitoring for the measuring electrodes
- » Barcode scanner for patient data



¹ Wiss. Arbeitskreisen Kardioanästhesie und Neuroanästhesie - Neuromonitoring in der Kardioanästhesie. Eine gemeinsame Stellungnahme der DGAI, SGAR und DGTHG, Anästh Intensivmed 2014; 55: 521-538.

Measurement mode

Sensory function is continuously monitored during recording. Stimulation electrodes are placed on the median nerve. The stimulation is performed contralaterally to the operation side. Signals are recorded from the sensory cortex on the operation site. A comparison measurement at the level of the cervical vertebrae C7 can also be useful. During the entire surgical procedure, latency and amplitude of the recorded SEP signals are displayed in a trend window. If the measured values reach a pre-set threshold value, the surgeon is notified visually and acoustically, and can react accordingly, e.g. by placing a shunt, in order to prevent irreversible damage.



Documentation

Thanks to the intuitive comment function of the C2 SEP software, the relevant events (for clamping, declamping) can be controlled at any time, also retrospectively.



SEP Accessories



Art.-No. **508 240**
C2 NerveMonitor
4-channel system

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



Art.-No. **508 514**
SEP Software Module
for C2 NerveMonitor

Provides automated function for SEP monitoring in carotid surgery, applicable for C2 software version 4.0 or higher

Art.-No. **540 424**
SEP Electrode Box
for C2 NerveMonitor

with 1.5mm female touchproof connector, 2 channel with ground and Fz
> delivered non-sterile
> non-autoclavable

> Stimulation

Art.-No. **533 657**

SDN Electrode

1.5 mm touchproof connector, red/black electrode pair, Needle length 20 mm, Needle diameter 0.45 mm, Cable length 2000 mm
> single-use only
> ETO-sterilized



Art.-No. **520 040**

Adapter Cable

with 4 pole device connector and 1.5 mm touchproof connector red/black
> delivered non-sterile
> autoclavable



> Recording

1 channel set for 30 surgeries

1x Art.-No. 530 750,
3x Art.-No. 533 651

Art.-No. **530 750**

Corkscrew Electrode Set

1.5 mm touchproof connector with 6 electrodes red, green, yellow, blue, black and white
> single-use only
> ETO-sterilized



Art.-No. **533 651**

SDN Electrode

1.5 mm touchproof connector 1 green electrode (ground), Needle length 20mm, Needle diameter 0.45 mm, Cable length 1500 mm
> single-use only
> ETO-sterilized

2 channel set for 30 surgeries

1x Art.-No. 530 750, 3x Art.-No. 533 628,
3x Art.-No. 533 651

Art.-No. **530 750**

Corkscrew Electrode Set



Art.-No. **533 651**
SDN Electrode



Art.-No. **533 623**
SDN Electrode

1.5 mm touchproof connector 1 yellow electrode, Needle length 15 mm, Needle diameter 0.45 mm, Cable length 1000 mm
> single-use only
> ETO-sterilized



Pioneer and partner
in neuromonitoring



Intraoperative Neuromonitoring
Functional Neurosurgery
Pain Treatment
Neurological diagnostics

inomed 

inomed Medizintechnik GmbH
Im Hausgruen 29
79312 Emmendingen (GERMANY)
Tel. +49 7641 9414-0
Fax +49 7641 9414-94
info@inomed.com
www.inomed.com