MED-STORM

innovation

Med-Storm`s Pain Monitor - generic: Skin Conductance Algesimeter (SCA), a better way to monitor pain and pain relief !

Med-Storm Innovation AS has the only Algesimeter device based on the principles of skin conductance changes.

The SCA^{TM} measures painful stimuli more specific and sensitive than heart rate and blood pressure because it measures directly sympathetic nerve activity (acetyl choline acting on muscarinic receptors). SCA^{TM} reacts immediately (1-2 sec delay). SCA^{TM} yields reliable results unaffected by temperature, heart disease, hypertension, lung disease and blood circulatory changes, as well as medications that influence the blood circulation. Muscle relaxantia (acetyl choline acting on nicotine receptors) does not influence the SCA^{TM}. The technology is covered by patents and patent application assigned to Med Storm.

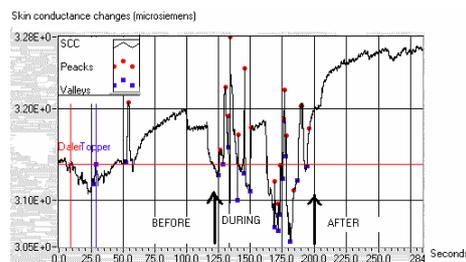## Physiological communication of pain

Med Storm offers SCA^{TM} for targets of infants from 25 weeks of gestational age, patients during anaesthesia, patients postoperativly, and patients at intensive care units:

WHITE: 0.00-0.07 peaks per sec	The patient is calm
LIGHT YELLOW: 0.14 peaks per sec	The patient is calm and move a little
YELLOW: 0.21-0.027 peaks per sec	The patient is active, observe the patient, pain / discomfort threshold is reached
ORANGE: 0.33 peaks per sec	The patient is probably in pain / discomfort, evaluate the situation
RED: 0.40 peaks per sec or more	The patient is in increasing pain /discomfort

Because of low variation between individuals when they are at the same pain / discomfort level, it is possible to make an index valid for all patients. 200 studies regarding acute pain and skin conductance changes have been performed in US, Australia and Europe. 2.500 patients have been examined. Indices are developed for infants, intensive care patients, patients during anesthesia, and for postoperative pain based on different pain scores suitable for the different patient groups. Gestational and postnatal age does not influence the infant index. The real time data can be stored and easily be transported to excel for research purposes. Contact Email: hanne.storm@med-storm.com

www.med-storm.com

Before, during, and after painful stimulus.

**Med-Storm's
Pain Monitoring system**

Equipment to monitor pain
and pain relief

The advantage of knowing
stress and pain in:
- Anesthesia
- Preterm Infants
- Critical Care
- Post Operation