CNAP® IN ANESTHESIA CARE

immediate identification of hemodynamic instabilities

STANDARD BLOOD PRESSURE MONITORING TODAY REQUIRES IMPROVEMENT!

> NBP (noninvasive upper arm blood pressure measurement) misses nearly 40% of all hypotensive episodes.¹

> IBP (continuous intra-arterial blood pressure monitoring) is indicated in only 16% of all patients.²

> Intra-arterial blood pressure measurement is time consuming and carries higher risk for the patient.³⁴

> Blood pressure monitoring in perioperative care is of extreme importance to detect hemodynamic instabilities resulting from anesthesia, surgical stimulation, bleeding or pain.⁵

KEEP HEMODYNAMICS UNDER CONTROL IN ORDER TO...

... minimize poor outcome due to delayed reaction to hypotensive events in high risk patients.

... minimize prolongation of hospital stay as a result of intraoperative hypotension time.⁶

... minimize increased postoperative mortality risk resulting from low blood pressure periods during surgery.⁶⁷

... minimize postoperative stroke resulting from longer duration of hypotension defined as 30% decrease from baseline.⁸

... minimize impaired neurological outcome due to hypotension under general anesthesia.⁹

IBP 16%  
NBP 84%  
Total number of patients = 12,308  
Source: Maguire, S., et al. (2011)²
EVIDENCE BASED IMPROVEMENT WITH CNAP®

NO MORE COMPROMISES: SAFE AND EASY

> **Continuous blood pressure values** two minutes after startup

> Setup can be carried out by all healthcare professionals (nurses and doctors)

> **Works with all anesthetic methods** (starting with induction)

> **Noninvasive** means convenient setup and no risk for the patient

CNAP® is superior compared to intermittent NBP for detecting hypotensive episodes.\(^{10}\)

CNAP® recognizes hypotension earlier than NBP for spinal and general anesthesia cases allowing for a more immediate reaction.\(^{1,11}\)

CNAP® delivers reliable results for the efficient treatment of ICU patients.\(^{12}\)

CNAP® measurements are comparable to invasive arterial line measurements.\(^{10,13}\)

CNAP® is the only continuous technology that automatically scales to the gold standard of NBP measurement, which is even recommended in addition to intra-arterial measurements for better clinical decision-making.\(^{14}\)

CNAP® provides the perfect continuous and noninvasive solution for hemodynamic monitoring in situations where an invasive arterial line is not indicated and intermittent NBP is not sufficient.

> **Applications**

Procedures with expected unstable hemodynamics:

> Neurosurgery

> Laparoscopic surgery

> Gynecological/ Obstetric surgery

> Vascular surgery

> Abdominal surgery

> Orthopedic surgery

> Bariatric surgery

> Urologic surgery

Applicable in:

> General/ Spinal/ Regional anesthesia

> Pediatrics > 20 kg

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10. Akesson, C. et al. Precision and accuracy of a new device (CNAP®) for continuous noninvasive arterial blood pressure monitoring: assessment during general anesthesia. BJA. 2010; 105:3366-72