A monitor designed to help treat a range of complex patients

The INVOS™ Cerebral/Somatic Oximeter non-invasively measures regional oxygen saturation (rSO₂) at the capillary bed to detect site-specific adequacy of tissue perfusion in patients of all ages and weights:

- Unique sensor designs optimized for adult, pediatric and infant/neonatal patients
- Simultaneous, 4-channel cerebral/somatic monitoring capability
- Ability to monitor any cerebral/somatic site

How INVOS™ Cerebral/Somatic Oximetry works

Using a proprietary algorithm, the INVOS™ system provides clinicians with immediate, actionable information to optimize patient care:

- The appropriately sized sensor is placed directly on the desired monitoring site (such as the forehead for cerebral oximetry)
- Two specific wavelengths of near-infrared light are used to determine the oxygen-hemoglobin saturation in the tissue beneath the sensor
- Two detectors (shallow and deep) are uniquely spaced to enable suppression of superficial tissue
- This provides an accurate measurement of site-specific tissue oxygenation

Clinically validated design and capabilities: Using a patented sensor spacing configuration, the INVOS™ system demonstrates sensitivity to subtle changes in saturation and cerebral blood flow.

Contact your local sales representative or visit covidien.com today to learn more about what the INVOS™ Cerebral/Somatic Oximeter can do for your patients.
Tailor baselines to individual patients

The use of patient-specific baselines and thresholds is well established in peer-reviewed clinical publications. In fact, clinical data shows that declines of >25% rSO2 value as measured by the INVOS™ cerebral/somatic oximeter from a patient’s baseline are associated with neurologic dysfunction and other adverse outcomes.1–8

Using the natural distribution of normal cerebral saturations, the INVOS cerebral/somatic oximeter allows clinicians to easily:

- Identify individual patient rSO2 baselines
- Establish critical, patient-specific thresholds for initiating AUC (area under the curve) calculations
- Monitor oxygenation changes from baselines
  - Trend graph display of each rSO2 channel monitored
  - On-screen display of AUC (visual accumulation of the depth and duration of values below set thresholds)
  - Trend line averaging display with 60-minute rolling rSO2 average

Additional benefits

The INVOS™ system also provides:

- On-board data storage of up to 28 cases
- Connectivity to multi-parameter monitors and electronic medical record systems
- Support from a world-class customer clinical support team
- Cost benefits through increased efficiency of interventions resulting in lower incidence of adverse outcomes
- Detailed INVOS case review and documentation with the INVOS Analytics Tool