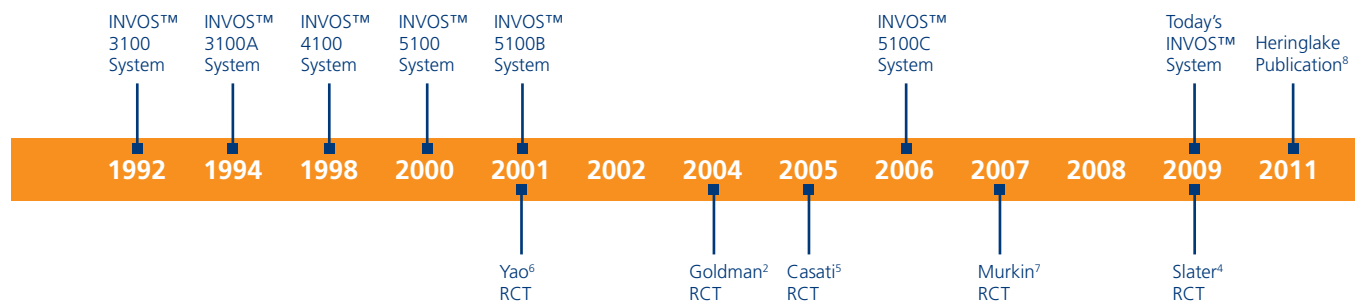


# The INVOS™ Technology Difference

## A market pioneer and innovator

The INVOS™ system continues to lead the field of regional oximetry through continuous innovation and research. Being the first commercially available NIRS based cerebral oxygen saturation monitor, no other regional oximeter is backed by the experience, extensive clinical research and commitment to ongoing technology development that make **the INVOS™ system the market leader**<sup>1</sup>:

- **First** U.S. adult cerebral oximeter
- **First** pediatric cerebral oximeter
- **First** simultaneous cerebral and somatic oximeter
- **1,200+ installations** worldwide
- Utilized in **700+ U.S. hospitals**
  - Based on the *U.S. News & World Report* hospital ranking the INVOS monitor is used in the majority of adult and pediatric cardiac surgical centers
- **Most widely used regional oximeter in the world**



## Setting the standard in regional oximetry

**Only the INVOS™ Cerebral/Somatic Oximeter** has been demonstrated through rigorous, peer-reviewed clinical research to improve patient outcomes by facilitating timely interventions under normal practice conditions<sup>3,5,9</sup>:

- **Only** regional saturation oximeter with RCT-level evidence demonstrating a positive impact on outcomes
  - Findings in three published randomized controlled trials has established the clinical value of the INVOS rSO<sub>2</sub> measurement
- **Only** claim for improved outcomes after surgery supported by the FDA<sup>9</sup>
- **Only** system specifically used in 600+ published, peer-reviewed articles (internal data on file at Covidien)
- **The clinical reference standard in regional oximetry**

	INVOS™	Competitor 1	Competitor 2	Competitor 3
All Articles, Abstracts, and Posters	785+	≈100	1	4
Published and Peer-Reviewed Articles	600+	16+	None	None
Outcome Correlation (peer reviewed)	30+	None	None	None
Outcome Improvement (peer reviewed) # papers/total #	3/2,610	None	None	None

Contact your local sales representative or visit [covidien.com](http://covidien.com) today to learn more about what the INVOS™ Cerebral/Somatic Oximeter can do for your patients.

# Timely interventions. Reduced complications. Improved patient care outcomes.

## The benefits of detecting cerebral perfusion with the INVOS™ system

Randomized, controlled clinical studies have demonstrated that cerebral oxygenation monitoring with the INVOS™ system helps clinicians intervene sooner, avoid significant desaturations and **reduce a wide range of adverse patient outcomes, such as:**

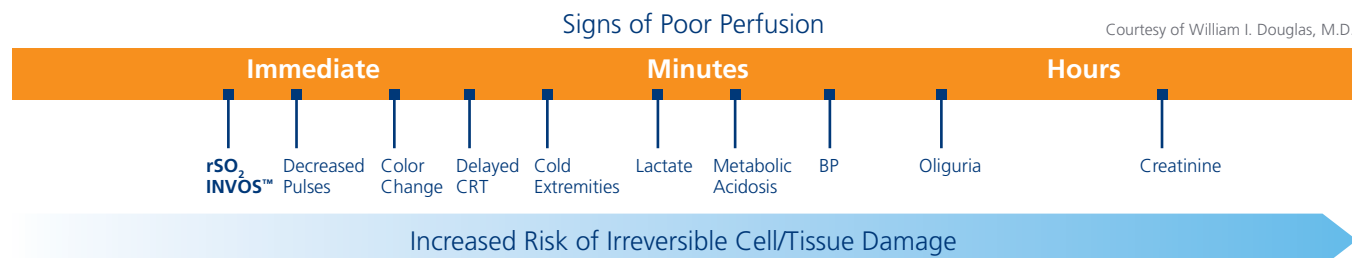
- Major organ morbidity or mortality<sup>3</sup>
- Post-operative cognitive decline<sup>4</sup>
- Prolonged time on mechanical ventilation<sup>2</sup>
- Adverse surgical events<sup>10</sup>
- ICU length of stay<sup>3</sup>
- Hospital length of stay<sup>5</sup>

**Society of Thoracic Surgeons Adult Cardiac Surgery Database Query:** In 23% of adult cardiovascular surgery procedures using cerebral oximetry monitoring, the monitoring information provided the first indication of a technical problem or physiological change that could lead to an adverse outcome.<sup>18</sup>

## Your earliest warning of tissue hypoxia and ischemia: The added insights of somatic monitoring with the INVOS™ system

Clinical data shows that, compared to standard monitoring parameters, somatic monitoring with the INVOS™ system in children, infants and neonates provides an **earlier indicator of oxygen threats associated with**<sup>11-13</sup>:

- Low cardiac output<sup>14</sup>
- Neurologic damage<sup>15,16</sup>
- Seizures<sup>17</sup>
- Renal dysfunction<sup>12</sup>
- Shock<sup>13</sup>



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