Medtronic

Bispectral Index™ (BIS™) monitoring system product guide

Anesthesia personalized.

Know you're tailoring each anesthetic dose just right.

The Bispectral Index™ (BIS™) monitoring system can give you meaningful information to help individualize and optimize anesthetic dosage – for the best possible outcome for each and every patient.

Insights to inform your decisions

Reliable data based on objective, quantified science is critical when you're monitoring the anesthetic effects on a patient's brain.

BIS™ system monitors use innovative technology to link patient-specific EEG information to an individual's level of consciousness.

Here's how it works:

1. Sensors collect the raw EEG data that indicates brain activity in real time.
2. The system uses its clinically validated algorithm to filter, analyze, and correlate the data.
3. Results are continually calculated and displayed as the BIS™ index value (a number between 0 and 100), indicating the patient's response to anesthetic agents.

By customizing individual dosing to keep the BIS™ monitor value within the target range during all phases of anesthesia,[1,5,8,9,20-23] you can minimize side effects and postoperative complications and drive faster recovery.

Using clinically-proven BIS™ index-guided anesthetic dosing:

Reduces

- Anesthesia use by as much as 38 percent[1-7]
- Awareness with recall by 64 percent[8,9]
- Incidence of post-operative complications[3,10,11]
- Costs[8,12-17]

Decreases

- Incidence of post-operative delirium in elderly and at-risk patients[3,6,7,10,11,15-17,19]

Improves

- Patient satisfaction[20]
- Patient outcomes[2,14,20]
- Patient quality of life[5,7]

Accelerates

- Wake ups[1,2]
- Recovery time[1,2,7,20]
- Discharges from PACU[5]

Visualize anesthesia in action

Our BIS™ monitors translate a patient's raw EEG data into the easy-to-read BIS™ index to help you reliably gauge and personalize their anesthetic medication.

2-channel monitor

The BIS™ monitoring system with 3.5 software – a full-featured, anesthetic depth monitoring solution. Features:

- Density Spectral Array (DSA) with visual display of EEG bands
- Spectral Edge Frequency (SEF)
- Median Frequency (MF)1–34–6,10,12
- Suppression Time (ST)
- Suppression Ratio (SR)

Part number: 186-0210

4-channel monitor

The same proven BIS™ monitoring system with 3.5 software and enhanced bihemispheric capabilities.

Combine it with our bilateral sensors to detect hemispheric differences in the brain. It has the same features as the 2-channel monitor, but also includes:

- Asymmetry indicator (ASYM)
- Ability to display from the left and right side of the brain
- Burst count

Part number: 186-1014

BIS™ LoC 2 channel with patient interface cable (PIC+)

Product ID: 186-0195-AMS

PIC+ only: 186-0107

BIS™ LoC 4 channel with patient interface cable (PIC-4)

Product ID: 186-0224-AMS

PIC-4 only: 186-1018-AMS-

Performance and patient comfort at the forefront

Our high-quality sensors are easy to apply with positioning instructions printed right on them. And they adhere well without damaging the skin. Limited to short-term use (maximum of 24 hours).

BIS™ quatro 4-electrode sensor

Measures brain activity in adult patients undergoing general anesthesia or sedation.

Part number: 186-0106, box of 25

BIS™ pediatric sensor†

Measures brain activity in pediatric patients.

Part number: 186-0200, box of 25

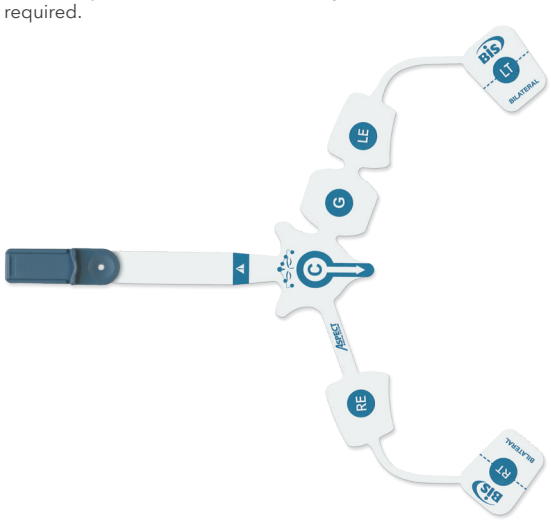
†Ages 4 and up recommended.

BIS™ bilateral sensor††

Lets you detect hemispheric differences in the brain, which may be useful for advanced monitoring applications.

Part number: 186-0212, box of 10

††Not compatible with BIS™ 2-channel systems. BIS™ LOC 4-channel cables required.



BIS™ extend sensor (extended use)

Measures brain activity in adult patients who require longer periods of monitoring, including those in the ICU.

Part number: 186-0160, box of 25

Talk to your Medtronic representative to order BIS™ monitors and sensors.

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