



## IONM Staff

Our neurophysiology scientists are all degree-qualified in Neurophysiology or a related discipline and have received extensive international and national clinical training.

With staff based locally IONM can provide you a reliable and dependable service with an exceptional level of technical excellence

## Pricing

Competitive pricing - Our pricing structure ensures we remain competitive in our field and provide our clients with a premium service that provides excellent value for money.

Our service charge is inclusive of all equipment, standard set of consumables and a trained and experienced scientist for the duration of the procedure.

We ensure there are no hidden charges in your billing.

**Book your Neuromonitoring today!**

0431 698349

[www.ionm.com.au](http://www.ionm.com.au)

[bookings@ionm.com.au](mailto:bookings@ionm.com.au)

## About us

Blood Management Solutions (BMS) has provided a perioperative blood management service since early 2019 to hospitals in South East Queensland and Northern New South Wales.

BMS identified the need for the provision of Intraoperative Neurophysiological Monitoring for patients undergoing major surgery and subsequently commenced IONM Pty Ltd

IONM Pty Ltd provides a national Neuromonitoring service in both public and private hospitals. Our neurophysiology scientists are all degree-qualified in Neurophysiology or a related discipline and have received extensive international and national clinical training.

Our service offers multi-modality neurophysiological monitoring which is the international "gold standard" for IONM.



**IONM - Experts in Electrophysiology**

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*Experts In Electrophysiology*

# Neuromonitoring Solutions

Experts in Electrophysiology

IONM Pty Ltd provides you with a local, reliable Neuromonitoring solution. Our scientists are highly trained and experienced in all aspects of multi-modality Neuromonitoring.

Book with us today and enjoy the experience the difference a local experienced service provider can offer you and your patients.

**IONM Pty Ltd**

Bookings - 0431 698 349



## Equipment & Monitoring Modalities

We proudly utilise the latest INOMED neurosurgical equipment.

INOMED allows us to offer flexible configuration of measurement modalities (EMG, MEP, SEP, EEG, AEP und VEP) and the ability to combine a wide variety of applications mean we can individually tailor IOM to your clinical routines and research.

The modular structure and the ability to flexibly combine different ISIS Headboxes and ISIS neurostimulators >> mean that the system can be individually configured for specific intraoperative neuromonitoring requirements and optionally also for microelectrode recording for deep-brain stimulation.

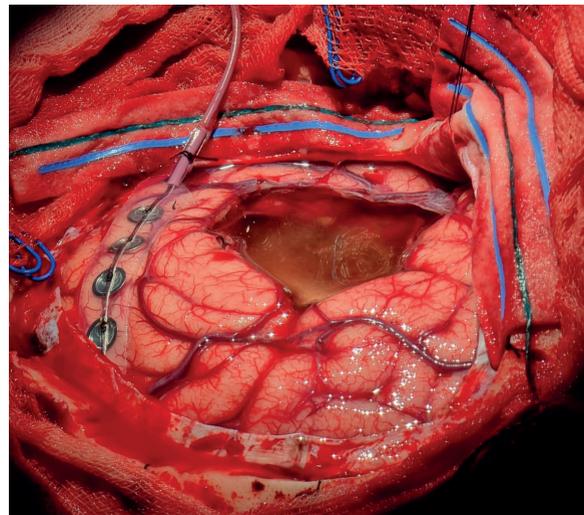
IONM modalities:

- Neurosurgery, e.g. SEP, MEP, EMG, EEG, AEP, VEP
- Spine surgery, e.g. SEP, MEP, EMG
- Orthopaedics, e.g. SEP, MEP, EMG
- Vascular surgery, e.g. SEP, EEG
- Cardiothoracic surgery, e.g. SEP, MEP, EEG
- Rectal surgery, e.g. EMG, pIOM
- Thyroid surgery, e.g. EMG
- Ear, nose and throat surgery, e.g. EMG, MEP

## Cranial Surgery

IONM's equipment and experience means our scientists are able to capture a wide range of neurological parameters and utilize multiple modalities:

- Electromyography (EMG)
- Transcranial Motor Evoked Potentials (TcMEP)
- Somatosensory Evoked Potentials (SSEP)
- Electroencephalography (EEG)
- Direct Nerve Stimulation and Pedicle Integrity (triggered EMG)
- Peripheral Nerve Monitoring
- Brain Stem Auditory Evoked Potentials (BAEP)
- Visual Evoked Potentials (VEP)
- Cranial Nerve Monitoring (III, IV, V, VI, VII, VIII, IX, X, XI, XII)
- Direct Cortical Stimulation (DCS), Sensorimotor Phase - Reversal (SPR) and Electrocorticography (ECoG) to assist in cortical mapping
- Lateral Spread Response during microvascular decompression for hemifacial spasm



## Spinal Surgery

Neurosurgeons and Orthopedic Spinal Surgeons around Australia have committed to using IONM. It is rapidly becoming a "standard of care" for procedures such as minimally invasive spinal surgery and complex instrumented spinal surgery such as scoliosis and deformity corrections, vertebrectomy, pedicle subtraction osteotomy, intramedullary/cauda equina surgery, tethered cord syndrome, spinal trauma and more. Outside of spinal procedures IONM is also providing a standard of care in cranial and vascular.

Live EMG monitoring of nerve roots: abnormal responses of a monitored muscle may indicate nerve irritation instantaneously if there is a pedicle breach. It can also indicate insult or irritation to a nerve root during decompression and interbody device placement.

During insertion, Instruments can be stimulated to find a graded threshold, to determine proximity to and thus safe trajectory of instruments. This is particularly useful in determining the medial or lateral positioning of the instrument or screw.

Following screw placements, Transcranial Motor Evoked Potentials can give an instantaneous functional analysis of the Anterior Motor Pathways.

IONM gives a complete real time functional analysis of the integrity of neural elements. Navigational equipment such as Intraoperative CT, Xray and Navigational Robots/Arrays only provide a structural indication of position, where IONM performed simultaneously can provide real time complete functional information on the patient and surgical impact on neurological structures.

