

Intraoperative neurophysiological monitoring indications

Multimodal intraoperative neuromonitoring (IONM) is recommended as an effective way to avoid permanent neurologic injury during surgical procedures ¹⁾.

A meta-analysis was not possible due to the heterogeneity of the studies.

Eighteen recommendations were issued and will support the adequate use of the IONM ²⁾.

During the last 20 years several less-invasive anterior approaches to the [lumbar spine](#) have become standard, including the extreme [Lateral retroperitoneal transpsoas approach](#). Although it is associated with a lower risk of vascular injury compared with anterior midline approaches, [neuromonitoring](#) is considered mandatory to avoid neurologic complications.

Somatosensory evoked potentials indications

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Intraoperative Neurophysiological Monitoring in Spine Surgery

see [Intraoperative Neurophysiological Monitoring in Spine Surgery](#).

Intraoperative neurophysiological monitoring for Skull base tumor surgery

[Intraoperative neurophysiological monitoring for Skull base tumor surgery](#).

Intraoperative monitoring for microvascular decompression

[Facial electromyography](#) and [BAER](#)

see [Intraoperative monitoring of the vestibulocochlear nerve](#).

Epilepsy surgery

[Intraoperative monitoring for epilepsy surgery](#).

1)

Grosland JO, Todd MM, Goldstein PA. Neuromonitoring in the ambulatory anesthesia setting: a pro-con discussion. Curr Opin Anaesthesiol. 2018 Dec;31(6):667-672. doi: 10.1097/ACO.0000000000000654. PMID: 30124541.

2)

Maza-Krzeptowsky LC, Romero-Esquiliano G, Ramírez-Segura EH, Obieta-Cruz E, Vega-Sosa A, Cárdenas-Mejía A, Juan-Orta DS, Castillo-Herrera M, Aguilar-Castillo SJ, Ávila-Ordóñez MU, Cordero-Guzmán LM, Escobar-Cedillo RE, Fraire-Martínez MI, Franco-Lira MO, González-Jaime JJ, Paz-Navarro CE, Ramos-Peek JN, Shkurovich-Bialik P, Silva-Cerecedo P, Tello-Valdés CA, Zavala-Reina AA, López-Rodríguez J, Sosa-García O. [Implementation of intraoperative neurophysiologic monitoring in children and adults in secondary and tertiary health care facilities]. Cir Cir. 2018;86(2):132-139. doi: 10.24875/CIRU.M18000021. Spanish. PubMed PMID: 29809190.

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