ORIGINAL ARTICLE



Reliability of intraoperative visual evoked potentials (iVEPs) in monitoring visual function during endoscopic transsphenoidal surgery

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Abstract

Objective To refine a reliable and reproducible intraoperative visual evoked potentials (iVEPs) monitoring protocol during endoscopic transsphenoidal surgery. To assess the reliability of baseline iVEPs in predicting preoperative visual status and perioperative iVEP variation in predicting postoperative visual outcome.

Methods Sixty-four patients harboring tumors of the pituitary region were included. All patients underwent endoscopic endonasal approach (EEA) with iVEPs monitoring, using a totally intravenous anesthetic protocol. Ophthalmological evaluation included visual acuity and visual field studies.

Results: Preoperatively, visual acuity was reduced in 86% and visual field in 76.5% of cases. Baseline iVEPs amplitude was significantly correlated with preoperative visual acuity and visual field (p = 0.001 and p = 0.0004, respectively), confirming the reliability of the neurophysiological/anesthetic protocol implemented.

Importantly, perioperatively the variation in iVEPs amplitude was significantly correlated with the changes in visual acuity $(\rho < 0.0001)$ and visual field $(\rho = 0.0013)$. ROC analysis confirmed that iVEPs are an accurate predictor of perioperiative visual acuity improvement, with a 100% positive predictive value in patients with preoperative vision loss.

Conclusions (VEPs during EEA is highly reliable in describing preoperative visual function and can accurately predict postoperative vision improvement.

Significance iVEPs represent a promising resource for carrying out a more effective and safe endoscopic transsphenoidal surgery.

Keywords Endoscopic endonasal surgery · Visual evoked potentials · Neuromonitoring · Pituitary adenoma · Transsphenoidal

Abbreviations

iVEPs:	Intraoperative visual evoked potentials
EEA	Endonasal endoscopic approach
SSEP	Somatosensory evoked potentials
MEP	Motor evoked potentials
WEPs -	Visual evoked potentials
HEG	Electroencephalogram
ENT	Ear, pose, and throat

HEROGA. Electroretinogram. TIVA Total IntraVenous Anesthesia TCL Target Controlled Infusion BILS Bispectral index ABB Acid base balance CSE Cerebro-spinal fluid SID Standard deviation ALINE Area under the curve

Pier Paolo Mattogno and Quintino Giorgio D'Alessandris are equal contributors. Alessandro Olivi and Liverana Lauretti are co-sensor authors.

This article is part of the Topical Collection on Pituitaries.

Extended author information available on the last page of the article

Introduction

Visual deterioration is the most common neurological sign of an enlarging mass in the pituitary region: during tumor removal, monitoring visual function to detect promptly



Evoked Potentials In Intraoperative Moni

Raffaela Di Napoli



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Table of Contents Evoked Potentials In Intraoperative Moni

- 1. Understanding the eBook Evoked Potentials In Intraoperative Moni
 - The Rise of Digital Reading Evoked Potentials In Intraoperative Moni
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Evoked Potentials In Intraoperative Moni
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Evoked Potentials In Intraoperative Moni
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Evoked Potentials In Intraoperative Moni
 - Personalized Recommendations
 - Evoked Potentials In Intraoperative Moni User Reviews and Ratings
 - Evoked Potentials In Intraoperative Moni and Bestseller Lists
- 5. Accessing Evoked Potentials In Intraoperative Moni Free and Paid eBooks
 - Evoked Potentials In Intraoperative Moni Public Domain eBooks
 - Evoked Potentials In Intraoperative Moni eBook Subscription Services
 - Evoked Potentials In Intraoperative Moni Budget-Friendly Options
- 6. Navigating Evoked Potentials In Intraoperative Moni eBook Formats

- o ePub, PDF, MOBI, and More
- Evoked Potentials In Intraoperative Moni Compatibility with Devices
- Evoked Potentials In Intraoperative Moni Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Evoked Potentials In Intraoperative Moni
 - Highlighting and Note-Taking Evoked Potentials In Intraoperative Moni
 - Interactive Elements Evoked Potentials In Intraoperative Moni
- 8. Staying Engaged with Evoked Potentials In Intraoperative Moni
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Evoked Potentials In Intraoperative Moni
- 9. Balancing eBooks and Physical Books Evoked Potentials In Intraoperative Moni
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Evoked Potentials In Intraoperative Moni
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Evoked Potentials In Intraoperative Moni
 - Setting Reading Goals Evoked Potentials In Intraoperative Moni
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Evoked Potentials In Intraoperative Moni
 - Fact-Checking eBook Content of Evoked Potentials In Intraoperative Moni
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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