

Processed Electroencephalography in Obstetric Anaesthesia: Benefits and Considerations

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DESCRIPTION

Processed Electroencephalography (pEEG) is a non-invasive method of monitoring the level of consciousness in patients undergoing anesthesia. This technology has become increasingly popular in obstetric anesthesia, where it is used to monitor the depth of anesthesia and prevent maternal awareness during surgery. In this article, we will explore the benefits of using pEEG in obstetric anesthesia and the considerations that must be taken into account when using this technology.

Benefits of using pEEG in obstetric anaesthesia

Prevention of maternal awareness: One of the most significant benefits of using pEEG in obstetric anesthesia is the prevention of maternal awareness during surgery. Maternal awareness can occur when a patient is not adequately anesthetized, and they become conscious during the surgery. This can be a traumatic experience for the patient and can lead to long-term psychological consequences. By monitoring the depth of anesthesia using pEEG, anesthesiologists can ensure that patients remain adequately anesthetized throughout the surgery, preventing maternal awareness.

Reduced risk of hypotension: Hypotension is a common complication of obstetric anesthesia, and it can lead to adverse maternal and fetal outcomes. By using pEEG to monitor the depth of anesthesia, anesthesiologists can adjust the level of anesthesia to prevent hypotension. This can reduce the need for vasopressors and other interventions to manage hypotension, which can improve maternal and fetal outcomes.

Individualized anesthesia: Every patient is unique, and their response to anesthesia can vary. By using pEEG to monitor the depth of anesthesia, anesthesiologists can tailor the anesthesia to the individual patient, ensuring that they receive the appropriate level of anesthesia. This can improve the quality of anesthesia and reduce the risk of complications.

Considerations when using pEEG in obstetric anaesthesia

Interpretation of pEEG Data: Interpreting pEEG data can be challenging, especially in obstetric patients. Pregnancy can affect the EEG waveform, making it difficult to determine the depth of anesthesia accurately. Additionally, maternal factors such as obesity, hypertension, and diabetes can also affect the EEG waveform. Anesthesiologists must be trained in interpreting pEEG data and must understand the limitations of this technology.

Cost: The use of pEEG can increase the cost of obstetric anesthesia. The cost of pEEG monitoring equipment and the training required for anesthesiologists can be a significant expense. However, the benefits of using pEEG, such as reducing the risk of complications, can outweigh the costs.

Training: Using pEEG in obstetric anesthesia requires specialized training. Anesthesiologists must be trained in interpreting pEEG data and must understand the limitations of this technology. Additionally, obstetric anesthesia requires specialized training, and anesthesiologists must have experience in managing obstetric patients.

CONCLUSION

pEEG is a valuable tool in obstetric anesthesia. It allows for the monitoring of the depth of anesthesia, which can prevent maternal awareness and reduce the risk of hypotension. Additionally, pEEG can be used to tailor the anesthesia to the individual patient, improving the quality of anesthesia and reducing the risk of complications. However, the interpretation of pEEG data can be challenging, and the cost of pEEG monitoring equipment can be a significant expense. Anesthesiologists must be trained in using pEEG and must understand the limitations of this technology. With careful consideration of these factors, pEEG can be a safe and effective tool for obstetric anesthesia.

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