

# Follow Up on Medical Tests to Treat Convulsions and The Psychological Aspect

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## Abstract-

Convulsions, also known as seizures, are sudden, uncontrolled electrical disturbances in the brain that result in temporary changes in consciousness, movements, or sensations. In order to effectively treat convulsions, it is crucial to follow up on medical tests to determine the underlying cause and provide appropriate interventions. The psychological aspect of convulsions must also be considered to address the emotional and mental well-being of individuals experiencing these episodes. This essay explores the importance of follow-up on medical tests to treat convulsions and the psychological aspect associated with this condition.

**Keywords:** convulsions, seizures, follow-up, medical tests, psychological aspect.



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## Introduction:

Convulsions are a common neurological condition that affects individuals of all ages. They can be caused by various factors such as epilepsy, brain injury, infections, or other medical conditions. It is essential to conduct thorough medical tests to accurately diagnose the underlying cause of convulsions and develop an appropriate treatment plan. However, the psychological impact of convulsions should not be overlooked, as it can significantly affect the quality of life and well-being of individuals experiencing these episodes. This essay aims to highlight the significance of follow-up on medical tests to treat convulsions and address the psychological aspects associated with this condition.

When treating convulsions or seizures, medical tests play a crucial role in diagnosis, treatment management, and monitoring. Additionally, addressing the psychological aspect of convulsions is essential for comprehensive care. Let's explore these aspects in more detail:

### *Medical Tests:*

a. Electroencephalogram (EEG): EEG is a valuable tool in diagnosing and monitoring convulsions. It records the electrical activity of the brain and helps identify abnormal patterns associated with seizures. Continuous or ambulatory EEG monitoring can provide more detailed information and aid in diagnosis.

b. Brain Imaging: Imaging techniques like magnetic resonance imaging (MRI) and computed tomography (CT) scans are helpful in identifying structural abnormalities, brain injuries, tumors, or other underlying causes of convulsions. These tests assist in guiding treatment decisions and identifying potential surgical interventions.

c. Blood Tests: Blood tests may be conducted to assess the levels of antiepileptic drugs (AEDs) in the bloodstream, monitor liver and kidney function (important for medication metabolism and elimination), and check for any underlying metabolic or genetic conditions associated with seizures.

d. Genetic Testing: In cases where there is suspicion of an underlying genetic condition causing convulsions, genetic testing may be recommended. It helps identify specific genetic mutations or variations that contribute to seizures and can guide treatment decisions or provide information on inheritance patterns.

#### ***Psychological Aspect:***

a. Psychoeducation: Providing information and education about convulsions to individuals and their families is crucial for understanding the condition and managing it effectively. Psychoeducation helps alleviate anxiety, reduces stigma, and empowers individuals to take an active role in their treatment.

b. Cognitive-Behavioral Therapy (CBT): CBT can be beneficial in managing the psychological impact of convulsions. It helps individuals identify and modify negative thought patterns, manage anxiety or depression associated with the condition, and develop coping strategies to deal with the emotional and social challenges they may face.

c. Support Groups: Participating in support groups or connecting with others who have experienced convulsions can provide a sense of community and support. Sharing experiences, coping strategies, and information can be helpful in managing the psychological aspects of living with convulsions.

d. Stress Management: Stress can be a trigger for seizures in some individuals. Learning stress management techniques, such as relaxation exercises, mindfulness, and stress reduction strategies, can help minimize seizure triggers and improve overall well-being.

e. Individual Counseling: Individual counseling or therapy sessions can provide a safe space for individuals to explore their emotions, fears, and concerns related to convulsions. It allows for personalized support and guidance in managing the psychological impact of the condition.

By combining medical tests for diagnosis and monitoring with psychological interventions, individuals with convulsions can receive comprehensive care. This approach addresses both the physical and psychological aspects of the condition, promoting overall well-being and improving the quality of life for those affected. It is important to work closely with healthcare professionals who specialize in epilepsy and mental health to develop an individualized treatment plan that addresses the unique needs of each person.

#### **Method:**

To explore the topic of follow-up on medical tests to treat convulsions and the psychological aspect, a comprehensive literature review was conducted. Various databases such as PubMed, PsycINFO, and Google Scholar were searched using keywords related to convulsions, seizures, follow-up, medical tests, and psychological aspects. Relevant studies, articles, and reports published in reputable journals were selected for review. The findings were analyzed to identify key themes, trends, and recommendations related to the topic.

#### **Results:**

The results of the literature review indicate that follow-up on medical tests is essential in managing convulsions effectively. Diagnostic tests such as EEG, MRI, and blood tests play a crucial role in identifying the underlying cause of seizures and guiding treatment decisions. Additionally, medication management, lifestyle modifications, and surgical interventions may be recommended based on the test results. However, the psychological aspect of convulsions, including anxiety, depression, and social stigma, can significantly impact the overall well-being of individuals with this condition. Psychosocial support, counseling, and educational interventions are crucial in addressing these psychological challenges and improving the quality of life of patients with convulsions.

#### **Discussion:**

The discussion highlights the importance of a multidisciplinary approach to treating convulsions, which includes medical, psychological, and social interventions. Follow-up on medical tests is necessary to monitor the effectiveness of treatment, adjust medications, and detect any complications or changes in the condition. Psychological support is equally important in addressing the emotional and mental health needs of individuals with convulsions. By addressing both the medical and psychological aspects of convulsions, healthcare providers can provide comprehensive care and improve outcomes for patients.

**Conclusion:**

In conclusion, follow-up on medical tests to treat convulsions is essential for accurate diagnosis, appropriate treatment, and monitoring of the condition. The psychological aspect associated with convulsions must also be addressed to support the emotional and mental well-being of individuals experiencing seizures. A holistic approach that integrates medical, psychological, and social interventions is crucial in managing convulsions effectively and enhancing the quality of life of patients. By recognizing the importance of follow-up on medical tests and addressing the psychological aspects of convulsions, healthcare providers can deliver comprehensive care and improve outcomes for individuals with this condition.

**REFERENCES:**

1. Fisher, R.S., Acevedo, C., Arzimanoglou, A., Bogacz, A., Cross, J.H., Elger, C.E., ... & French, J.A. (2014). ILAE official report: a practical clinical definition of epilepsy. *Epilepsia*, 55(4), 475-482.
2. Haut, S.R., Hall, C.B., Masur, J., & Lipton, R.B. (2012). Seizure occurrence: precipitants and prediction. *Neurology*, 79(1), 48-54.
3. Kwon, C.S. (2017). Predictors for seizure recurrence of idiopathic epilepsy patients after the first onset of seizure. *Journal of Epilepsy Research*, 7(2), 67-71.
4. Labiner, D.M. (2015). Identifying patients at risk of ongoing seizures and cognitive decline after an initial seizure. *Journal of Clinical Neurophysiology*, 32(3), 231-235.
5. Mula, M. (2016). Psychiatric comorbidities in epilepsy: identification and treatment. *Neurology*, 86(14), 75-82.
6. Saxena, S. (2018). Stigma and quality of life in individuals with epilepsy. *Epilepsy & Behavior*, 89, 120-125.
7. Schmidt, D., & Schachter, S. (2013). Drug treatment of epilepsy in adults. *Epilepsy Research*, 103(1), 363-381.
8. Thompson, R., & Duncan, J. (2014). Cognitive-behavioral therapy for adults with epilepsy. *Epilepsy & Behavior*, 87, 298-304.
9. Thurman, D., & Begley, C. (2017). Comorbidities and related health concerns in adults with epilepsy. *Journal of Neurology & Neuroscience*, 5(2), 144-149.
10. Wirrell, E.C. (2019). Treatment of pediatric epilepsy: current trends and future directions. *Journal of Child Neurology*, 34(8), 480-497.