



# CUTTING-EDGE SCIENCE 2022

international scientific and practical conference



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2022 Shawnee, USA

Conference Proceedings

**Primedia E-launch**

**Shawnee, USA**

## **PRIMEDIA E-LAUNCH**

**International scientific and practical conference**

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## **Immunization from covid-19 in people with epilepsy**

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### **Annotation**

The thesis addresses questions about the immunization of COVID-19 in people with epilepsy, the safety and tolerability of vaccines against COVID-19. Symptoms, side effects of COVID-19 vaccines, and seizure control after vaccination are also described.

**Keywords:** COVID-19, immunization, vaccination, people with epilepsy

**Relevance:** COVID-19 was first detected in December 2019 and was declared a pandemic shortly thereafter. Today, there is a huge need for effective vaccines to fight the pandemic. Due to the high demand for information on COVID-19 immunization in people with epilepsy, we decided to study the impact of COVID-19 vaccines on people with epilepsy.

**Objective:** To investigate the safety and tolerability of COVID-19 vaccines in people with epilepsy, to assess symptoms, side effects of the COVID-19 vaccine, and seizure control after vaccination.

**Materials and methods:** The study included adult patients (>18 years of age) with epilepsy who received a full course of vaccination, including a booster dose of the vaccine. All patients were followed up for 6 months after receiving a booster dose of the vaccine. We collected patient data using a standard form. The form contained questions about patient demographics, current antiepileptic therapy, and information about vaccinations and side effects. The questionnaire included questions about adverse events associated with epilepsy. Patients were divided into two groups: the first group included patients with an increase in the frequency of seizures, and the second group, patients with stable seizures.

**Results:** A total of 87 adult patients participated in the study. Of the 87 patients, 42 were male and the remaining 45 were female. In 83 patients (95.4%), there was no increase in the frequency of seizures, while in 4 patients (4.6%) there was an increase in seizures. Also, patients experienced transient disorders of the autonomic nervous

system in the form of excessive sweating, tachycardia, dizziness, arterial hypertension and hypotension. Post-vaccination seizures and vegetative disorders occurred mainly within 7 days after the introduction of the vaccine. All patients were taking antiepileptic drugs. Patients in the first group were treated on average with more anticonvulsants and had a higher frequency of seizures before vaccination compared with patients in the second group, and it was patients in the first group who experienced an increase in seizures. There was no significant difference in the number of seizures before vaccination, month between doses, month after vaccination and within 6 months after receiving the booster dose in patients of the second group. None of the patients reported status epilepticus. In addition, general and local post-vaccination side effects were observed in patients. The most commonly reported adverse events were (in descending order) headache, fatigue, myalgia and fever, and chills. Of the local reactions in patients, pain, redness and itching were observed at the injection site.

**Conclusions:** Our study shows that COVID-19 immunization is safe and well tolerated in people with epilepsy. The vaccines had no effect on the monthly number of seizures. Only a small number of patients experienced transient short-term disturbances in the form of general and local post-vaccination reactions, disorders of the autonomic nervous system and a short-term increase in the frequency of seizures.

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