

Epilepsy is one of the most common diseases of the nervous system . life
Patients suffering from this disease is affected differently by frequent seizures, as well as
side effects of antiepileptic drugs. In addition, there is a large group of people (20 -
30 % of patients), the disease can not be contained by any of the known
drugs. This group is trying to help the neurosurgical teams and where
possible attempts to remove the zone responsible for the seizure . Before it is
However , the patient should undergo full spectrum of investigative processes
place suitable for operation in the most specify. The human brain is still
hides many unknowns and its detailed work , scientists still secret. our
The challenge is therefore to try to find methods to understanding its functioning. It must be
in mind that , in examining still a human being and should be located
method of the least invasive and minimally intrusive for patients .

This work focuses on diagnostics detail epileptogenic zones in
patients with type temporal epilepsy (TLE) using the nuclear
Medicine - Positron emission tomography (PET). This is a noninvasive method ,
but the operation of expensive and limited availability. With differentiation
various metabolic demands epileptic tissue compared with healthy tissue
brain PET can lateralizovat diseased side and help in decision-making
on such an important surgery , such as surgical removal of part of the brain tissue.