

Positron emission tomography in the Czech Republic for a seven-year tradition.

At this moment Czech Republic has two and three hybrid PET / CT scanners. They are used primarily in clinical practice in cancer patients.

It is known that patients with proven cancer and patients with definite suspicion of malignancy forms a very large section of the population of patients investigated in nuclear medicine centers, especially in PET centers.

The possibility of combining metabolic and anatomical-morphological appearance of tissues during a single examination (as in PET / CT) is significantly increased

sensitivity and specificity of both methods and thus contributes not only to save time, but also speed up the diagnostic-therapeutic process, which is in cancer

Patients particularly important and desirable. According to some sources, this examination may up to one third of cancer patients lead to a change of the originally planned therapy. [2]

The investigative method of PET and PET / CT is for certain malignancies important not only in the diagnosis and monitoring of therapy, but it makes sense in a secondary tertiary prevention in search of metastasis and relapse and early detection relapse rate by other methods in that phase unobservable.