

Nuclear medicine imaging of neuroendocrine tumours

Prachi Dewangan
Department of Biomedical Engineering
National Institute of Technology, Raipur

January 21, 2022

Aim

To study about the potential of several nuclear medicine techniques in the diagnosis of neuroendocrine tumours and stresses the renewed role of nuclear medicine in the management of this disease.

Term paper highlights

- About neuroendocrine tumors
- Radiopharmaceuticals for neuroendocrine tumours imaging.
- Clinical applications of nuclear medicine imaging.

Keywords

1. **scintigraphy:** a technique in which a scintillation counter or similar detector is used with a radioactive tracer to obtain an image of a bodily organ or a record of its functioning.
2. **neuroendocrine tumours:** A tumor that forms from cells that release hormones into the blood in response to a signal from the nervous system.
3. **Radiopharmaceuticals:** agents used to diagnose certain medical problems or treat certain diseases
4. **Dosimeters:** It is a device that measures dose uptake of external ionizing radiation.
5. **angiography:** is a type of X-ray used to check blood vessels.
6. **Radiation:** the emission of energy as electromagnetic waves or as moving subatomic particles, especially high-energy particles which cause ionization.