ESNM Webinar Series on basic NM
Basic PET physics and instrumentation
Part 2

Target audience

This webinar is dedicated to clinicians and to physicists that are willing to improve or consolidate the basic physics behind Positron Emission Tomography and to understand how these principles have an impact in PET imaging.

Description

This presentation illustrates how data are acquired in PET and the principles of time coincidence measurements. It also describes the sources of noise in PET image with the analysis of the meaning of true, scatter and random coincidences and of the noise equivalent count rate. The concept of Time-of-Flight PET concept is illustrated together with a description of the CT based attenuation correction of PET data. An brief overview of present PET/CT systems is also shown.