

Special Issue

Applications of PET/CT in Clinical Diagnostics

Message from the Guest Editors

Positron emission tomography/computed tomography (PET/CT), a fused imaging tool, efficiently combines functional (metabolic) and anatomical (morphologic) information simultaneously. The most frequently used radiotracer for PET/CT imaging is deoxy-2-[18 F] fluoro-D-glucose (F-18 FDG), a glucose analog with a fluorine isotope (F-18) replacing the hydroxyl group. This radiotracer shows increased uptake in tumor cells due to increased anaerobic glycolysis (Warburg effect). The F-18 FDG PET/CT, with its unique ability to highlight tumor cells, plays a pivotal role in clinical diagnostics in oncology. It is a milestone of neoplasm diagnostic algorithms for detection, staging, treatment response evaluation, restaging, and prognosis.

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