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Radiation Safety Issues in PET/CT

References & Resources

This compilation is not exhaustive.

CNSC

Radionuclide Information Booklet
GD-52: Design Guide for Nuclear Substance Laboratories and Nuclear Medicine Rooms
REGDOC-1.4.1 Licence Application Guide: Class II Nuclear Facilities and Prescribed Equipment
REGDOC-1.5.1, Version 1.1 Application Guide: Certification of Radiation Devices or Class II Prescribed Equipment
REGDOC-1.6.1 Version 2 Licence Application Guide: Nuclear Substances and Radiation Devices
REGDOC-1.6.2 Developing and Implementing an Effective Radiation Protection Program for Nuclear Substances and Radiation Devices Licences
Type II Inspection Worksheet Use Type: 862 - Diagnostic Nuclear Medicine Procedures

IAEA

IAEA Safety Standards
PET/CT Training Material
Radiation Protection in Newer Medical Imaging Techniques: PET/CT
Radiation Protection During PET/CT
Radiation Protection of Children During PET/CT
Radiation Protection of Patients During PET/CT Scanning
Radiation Protection of Pregnant Women During PET/CT Scanning
Radiation Protection of Staff During PET/CT Scanning
Strategies for Clinical Implementation and Quality Management of PET Tracers

Hermanne, A., Tárkányi, F. T., Ignatyuk, A. V., Takács, S., & Capote, R. (2021). Upgrade of IAEA recommended data of selected nuclear reactions for production of PET and SPECT isotopes. Nuclear Data Sheets, 173, 285–308. https://doi.org/10.1016/j.nds.2021.04.008

IAEA Human Health Series

No. 1 - Quality Assurance for PET and PET/CT Systems
No. 9 - Appropriate Use of FDG-PET for the Management of Cancer Patients
No. 11 - Planning a Clinical PET Centre
No. 26 - Standard Operating Procedures for PET/CT: A Practical Approach for Use in Adult Oncology
No. 27 - PET/CT Atlas on Quality Control and Image Artefacts
No. 32 - Clinical PET/CT Atlas: A Casebook of Imaging in Oncology
No. 37 - Nuclear Medicine Resources Manual 2020 Edition

IAEA Pocket Guides

For Medical Physicists Supporting Response to a Nuclear or Radiological Emergency
Medical Management of Persons Internally Contaminated with Radionuclides in a Nuclear or Radiological Emergency

IAEA Radioisotopes and Radiopharmaceuticals Reports
No. 1 - Emerging Positron Emitters for Medical Applications: ^{64}Cu and ^{124}I
No. 3 - Guidance on Facility Design and Production of [^{18}F]Fluorodeoxyglucose (FDG)

IAEA-TECDOC
1430 - Radioisotope handling facilities and automation of radioisotope production
1603 - The Role of PET/CT in Radiation Treatment Planning for Cancer Patient Treatment
1605 - A Guide to Clinical PET in Oncology: Improving Clinical Management of Cancer Patients

IAEA Technical Report Series
No. 468 - Cyclotron Produced Radionuclides: Physical Characteristics and Production Methods
No. 471 - Cyclotron Produced Radionuclides: Guidelines for Setting Up a Facility

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(http://www.isradiology.org/quality)
Arab Safe
AsiaSafe
Canada Safe Imaging
EuroSafe Imaging
Image Gently
Image Wisely
Optimizing Oncologic FDG-PET/CT Scans to Decrease Radiation Exposure
Japan Radiological Society
LATINSAFE