

# **International Conference on Clinical PET-CT and Molecular Imaging: PET-CT in the Era of Multimodality Imaging and Image Guided Therapy (IPET-2015)**

**Monday, 5 October 2015 - Friday, 9 October 2015**

**IAEA, Vienna**

## **Scientific Programme**

**The conference will review important clinical aspects and appropriate use of medical imaging for the entire spectrum of cancer management and other diseases. It will have the following specific objectives:**

To review the important clinical aspects of cancer and other diseases, and evaluate the role of streamlined and emerging multimodality imaging techniques in providing best practices in the clinical management of the diseases;

To evaluate, using a clinical systems based approach, the current status of clinical positron emission tomography-computed tomography (PET-CT) and other relevant imaging modalities;

To improve the performance of clinical practice through 'read with the experts' sessions and discussions;

To interact with the user community (nuclear physicians, radiologists, oncologists, radiation oncologists, technologists, radiographers, radiopharmacists, radiochemists, medical physicists and other scientists working in all aspects of molecular imaging) and provide them with the most important information in the field;

To provide theoretical tools on ethics, leadership and education which will prepare participants to be future leaders in the field of medical imaging; and

To exchange information in the field of radiopharmaceutical sciences.

The IAEA invites participants to provide high quality contributions on all aspects of PET-CT and molecular imaging. Recognizing that many Member States are still in the planning stage of acquiring clinical PET-CT, the Conference Secretariat emphasizes that such countries can positively contribute with papers on the applications of nuclear medicine and diagnostic imaging techniques. Both academic and practice-based papers under the umbrella of the following topics will be welcome:

Application of PET-CT, molecular imaging and diagnostic imaging for different types of cancer: breast, lung, colorectal, melanoma, neuroendocrine, etc.;

PET-CT for radiation treatment planning;

Radiopharmaceutical production: good manufacturing practices and quality assurance;

PET and single photon emission computed tomography (SPECT) physics, instrumentation and data analysis;

Quality management in nuclear medicine and diagnostic imaging;

Radiation protection for personnel and dose reduction for patients;

Member State experience with PET, multimodality imaging and newer applications in diagnostic imaging; and

Ethics, leadership and education for nuclear medicine and diagnostic imaging professionals.

## **Target Audience**

This conference will offer the opportunity to review the latest developments in the field of PET-CT and diagnostic imaging. The target audience comprises:

Nuclear medicine physicians;

Radiologists;

Radiation oncologists;

Technologists and radiographers;

Medical physicists;

Radiochemists and radiopharmacists; and

Other scientists working in all aspects of molecular imaging.

### **Topics**

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Abstracts on the following topics will be considered for presentation at the conference.</div>

**Hybrid imaging or other imaging techniques in  
gynecological cancers**

**Hybrid imaging or other imaging techniques in  
pediatric cancers**

**Hybrid imaging or other imaging techniques in  
breast cancer**

**Hybrid imaging or other imaging techniques in  
lymphoma**

**Hybrid imaging or other imaging techniques in  
gastrointestinal cancers**

**Hybrid imaging or other imaging techniques in  
prostate cancer**

**Hybrid imaging or other imaging techniques in  
CNS/brain cancer**

**Hybrid imaging or other imaging techniques in  
lung cancer**

**Hybrid imaging or other imaging techniques in  
head and neck cancer and other malignancies**

**Hybrid imaging or other imaging techniques in  
benign conditions**

**Image guided therapy and radionuclide therapy**

**PET-CT in radiation treatment planning**

**Radiopharmaceutical production including good  
manufacturing practices and quality assurance**

**Imaging techniques physics, instrumentation and data analysis**

**Quality management in nuclear medicine and diagnostic imaging**

**Radiation protection for personnel and patients**

**Member State experience with PET, multimodality imaging and newer applications in diagnostic imaging, and related IAEA Projects**

**Ethics, leadership and education for nuclear medicine and diagnostic imaging professionals**

**General nuclear medicine, SPECT, and other**

**Radioguided surgery**