



IAEA

International Atomic Energy Agency

Atoms for Peace and Development

(Virtual event)

**International Conference on Clinical PET–CT and
Molecular Imaging in the Era of Theranostics
(IPET-2020)**

**IAEA Headquarters
Vienna, Austria**

24-26 November 2020

**Organized by the
International Atomic Energy Agency (IAEA)**

Announcement and Call for Papers

A. Background

The International Atomic Energy Agency (IAEA) is organizing the International Conference on Clinical PET–CT and Molecular Imaging: In the Era of Theranostics (IPET-2020), following the success of the IPET-2007, IPET-2011, and IPET-2015. Innovation in research and development is a driving force in medical imaging. New imaging devices, radiopharmaceuticals, clinical applications and medical evidence are produced at a fast pace and need to be propagated. New standards of best practice should be emphasized not only as part of training programmes, but all efforts should be made to keep the medical community abreast with developments in order to provide optimal patient care and professional growth.

Nuclear Medicine and Diagnostic Imaging play a key role in cancer management. They permit early and accurate diagnosis, precise staging, provide guides for selection of therapy, allow the monitoring of treatment, and further aid in disease management by supporting treatment planning or guided biopsies.

Radiopharmaceuticals, labelled with beta- or alpha-emitters, targeting relevant molecular markers expressed by different solid and haematological tumours can be used for radionuclide targeted therapies. Medical imaging and radionuclide therapies, together, help herald in the era of personalized medicine.

This conference will provide a forum for clinicians, imaging specialists and scientists to review the important clinical aspects of cancer management. It will critically examine the pivotal role of multimodality imaging techniques, combined with targeted therapies with a view to addressing the health challenges common to many Member States.

Considering the current global situation, a session devoted to the role of medical imaging in COVID-19 patients will be held.

B. Objectives

The conference will review important clinical aspects and appropriate use of medical imaging in the management of patients with Prostate, Breast, Lung, NET, Thyroid, Lymphoma, and Paediatric cancers. It will have the following specific objectives:

- To review the important clinical aspects of the above-mentioned pathologies, and evaluate the role of streamlined and emerging multimodality imaging techniques in providing best practices in the clinical management;
- 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 evaluate how the integration of diagnostic molecular imaging with radionuclide therapies is key to the development of personalized medicine;
- 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;
- To exchange information in the field of radiopharmaceutical sciences; and
- To identify challenges and trends, as well as the role of the IAEA and other international organizations in supporting Member States.

C. Format and Topics

A clinical systems-based approach for every session will include an initial discussion on the important clinical aspects of the disease or condition to which the session is devoted, followed by a thorough review of the role of nuclear medicine and diagnostic imaging and concluding with the status of Theranostics applications. Each clinical session will be comprised of plenary sessions followed by an interactive ‘read with the experts’ session.

D. Target Audience

This conference will offer the opportunity to review the latest developments in the field of Nuclear Medicine, Diagnostic Imaging and Theranostics. The target audience comprises:

- Nuclear medicine physicians;
- Radiologists;
- Technologists and radiographers;
- Medical physicists;
- Radiochemists and radiopharmacists; and
- Other scientists working in all aspects of molecular imaging.

E. Expected Outcomes

The conference will provide clinicians, scientists and professionals with an international forum at which they can review the latest developments in all aspects of nuclear medicine, diagnostic imaging and theranostics, with a view to addressing the health challenges common to many IAEA Member States.

F. Abstracts, Poster Presentations and Proceedings

F.1 Submission of Abstracts

Abstracts submitted after the extended deadline of 12 June 2020 will no longer be considered for this virtual conference.

F.2 Acceptance of Abstracts for Poster Presentations

The Secretariat reserves the right to exclude papers that do not comply with its quality standards and do not apply to one of the topics in Section C above.

The abstracts, accepted by the Programme Committee, will also be reproduced unedited in the electronic Compilation of Abstracts which will be freely available in electronic version.

F.3 Proceedings

Following the conference, the IAEA will publish a report containing summaries of the plenary and technical sessions. The report will be made freely available in electronic version.

G. Participation and Registration

All persons wishing to participate in the conference must be designated by an IAEA Member State or should be members of organizations that have been invited to attend. The list of invited organizations can be requested from the Conference Secretariat (see Section K).

In order to be designated by an IAEA Member State, participants are requested to send Participation Form (Form A) to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority):

Participants who are members of an organization invited to attend are requested to send the above form through their organization to the IAEA (Official.Mail@iaea.org).

In addition, participants are requested to pre-register online through the IAEA web page for the conference.

H. Distribution of Documents

A preliminary programme will be posted on the IAEA conference web page as soon as possible. The final programme and the electronic Compilation of Abstracts will be available free of charge upon registration at the conference.

I. Working Language

The working language of the conference will be English. All communications and papers must be sent to the IAEA in English.

J. Conference Venue

The conference will be held virtually.

K. Conference Secretariat

General contact details of the Conference Secretariat:

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Subsequent correspondence on scientific matters should be sent to either of the Scientific Secretaries of the conference and correspondence on administrative matters to the IAEA Conference Services Section.

L. Conference Web Page

Please visit the following web page regularly for new information regarding this conference:

<https://www.iaea.org/events/ipet-2020>