



IAEA

Atoms for Peace
and Development

International Conference on Integrated Medical Imaging in Cardiovascular Diseases (IMIC-2027)

**IAEA Headquarters
Vienna, Austria**

18–21 May 2027

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

Announcement and Call for Papers

A. Background

In 2027, the International Atomic Energy Agency (IAEA) will convene the Fourth International Conference on Integrated Medical Imaging in Cardiovascular Diseases (IMIC-2027), building on the success of the IMIC-2013, IMIC-2016 and IMIC-2022 conferences. Cardiovascular diseases (CVDs) remain the leading cause of death worldwide, accounting for an estimated 19.8 million deaths in 2022—approximately one third of all global mortality. According to WHO global health estimates, ischaemic heart disease alone causes around 9 million deaths annually, with stroke contributing a further six million, together remaining the foremost causes of death globally. More than 75% of CVD-related deaths occur in low- and middle-income countries (LMICs).

Medical imaging plays a central role in the diagnosis, risk stratification and management of a broad spectrum of cardiovascular conditions, including ischaemic heart disease, heart failure, cardiomyopathies, cardiac amyloidosis, infection and inflammation, as well in the assessment of the brain–heart axis. Imaging modalities such as single photon emission computed tomography (SPECT), positron emission tomography (PET), computed tomography (CT) and magnetic resonance imaging (MRI) provide complementary anatomical, functional and molecular information that supports personalized clinical decision making and the efficient use of healthcare resources.

As imaging technologies continue to evolve rapidly, there is a pressing need to support healthcare professionals in staying abreast of new developments and expanding clinical applications to ensure evidence-based and appropriate use. This includes a clear understanding of the strengths, limitations and complementary roles of different imaging modalities to optimize patient care.

Capacity building is central to the IAEA's mission to strengthen the human and technical capabilities of Member States and to support sustainable, self-reliant healthcare systems. The IAEA employs a range of strategies to enhance the effective use of medical imaging technologies, with international conferences playing a key role in knowledge transfer, experience sharing, and the dissemination of best practices. IMIC-2027 will contribute to strengthening high quality clinical practice, support professional development and offer Continuing Medical Education (CME) credits to participating medical professionals.

The most recent IMIC conference, held in 2022 with the support of 12 cooperating professional organizations, brought together more than 300 participants from 84 Member States. In addition, over 1,500 professionals benefited from live streaming, underscoring the global reach and impact of the conference.

B. Purpose and Objectives

The purpose of IMIC 2027 is to review and discuss current clinical applications, advances and emerging trends in multimodality medical imaging for the diagnosis, management and follow-up of cardiovascular diseases, including their cardiac, neurological and vascular manifestations.

The programme will highlight state-of-the-art developments in single photon emission computed tomography (SPECT), positron emission tomography (PET), computed tomography (CT), cardiac and vascular magnetic resonance imaging (MRI) and echocardiography, emphasizing their integrated role in precision medicine and patient-centred care.

C. Themes and Topics

The IAEA invites submissions of high-quality contributions addressing the full spectrum of medical imaging applications in the management of cardiovascular diseases (CVDs). Submissions may focus on clinical practice, research, education or implementation and capacity building. Both academic and practice-based contributions are welcome under, but not limited to, the following themes:

- Clinical applications of medical imaging in CVDs, including stable coronary artery disease, acute coronary syndromes, heart failure, cardiomyopathies, pericardial disease, valvular heart disease, cardio-oncology, infective endocarditis, congenital heart disease, cardiac amyloidosis and other emerging or specialized clinical indications;
- Imaging of vascular and neurological manifestations and complications of CVDs, including cerebrovascular disease and systemic vascular involvement;
- Member State experience in implementing cardiac imaging services using SPECT, SPECT/CT, PET/CT, CT, MRI or establishing integrated cardiovascular imaging facilities;
- Advances in instrumentation, image acquisition, processing and quantitative analysis for cardiovascular imaging;
- Quality management systems and quality assurance in cardiovascular imaging practice;
- Radiation protection and patient dose optimization in cardiovascular imaging; and
- Ethics, leadership and education in cardiovascular imaging.

D. Structure

The conference will open with a welcome address and statements by senior IAEA representatives and the Scientific Secretary, followed by keynote lectures delivered by invited international experts. The scientific programme will then proceed through a series of clinically focused sessions addressing CVDs.

Each session will follow a systematic format, starting with an overview of the key clinical aspects of the disease or condition under discussion, followed by a review of the role of different medical imaging modalities, panel discussions and a summary of key take home messages. Sessions will integrate plenary presentations with interactive, case-based discussions to encourage active participant engagement.

Poster presentations will constitute an integral component of IMIC-2027. Abstracts will be peer reviewed and selected authors will be invited to present and discuss their work during dedicated poster sessions.

The conference will conclude with a plenary session addressing future directions and emerging trends in cardiovascular imaging, followed by a closing ceremony that will include a highlight lecture summarizing the most prominent aspects of the conference.

E. Expected Outcomes

IMIC-2027 will facilitate the exchange of knowledge and experience among participants from diverse Member States, fostering peer learning and professional collaboration. The conference is expected to enhance participants' understanding of the clinical applications of key cardiovascular imaging modalities, including SPECT, PET, echocardiography, CT and MRI, as well as recent technological and methodological advances.

Participants will be updated on emerging trends in hybrid and integrated imaging and will acquire best practices in image acquisition, processing, interpretation and reporting, in line with contemporary clinical standards. These outcomes are expected to contribute to improved clinical decision-making, reinforce patient-centred care and support the delivery of high-quality cardiovascular services, with particular benefit for LMICs.

F. Target Audience

This conference will provide the opportunity to review the latest developments in the field of cardiovascular imaging. The target audience is health professionals working in cardiovascular imaging including:

- Cardiologists;
- Nuclear medicine physicians;
- Radiologists;
- Technologists and Radiographers; and
- Other scientists working in all aspects of cardiovascular imaging.

G. Call for Papers

Contributions on the topics listed in Section C are welcome as oral or poster presentations. All submissions, apart from invited papers, must present original work, which has not been published elsewhere

G.1. Submission of Extended Abstracts

Extended abstracts (approximately 400 to 500 words on one or a maximum of two A4 pages, may contain any charts, graphs, figures and references) should give enough information on the content of the proposed paper to enable the Programme Committee to evaluate it. Anyone wishing to present at the conference must submit an extended abstract in electronic format using the conference's file

submission system ([IAEA-INDICO](#)), which is accessible from the conference web page (see Section Q). The extended abstract can be submitted through this system from **18 May 2026** until **30 October 2026**. Specifications for the layout will be available on IAEA-INDICO. The system for electronic submission of extended abstracts, IAEA-INDICO, is the sole mechanism for submission of contributed extended abstracts. Authors are encouraged to submit extended abstracts as early as possible. The IAEA will not accept submissions via email.

In addition, authors must register online using the InTouch+ platform (see Section H). The online registration together with the auto-generated Participation Form (Form A) and Form for Submission of a Paper (Form B) must reach the IAEA no later than **30 October 2026**.

IMPORTANT: The Programme Committee will consider uploaded extended abstracts only if these two forms have been received by the IAEA through the established official channels (see Section H).

G.2. Acceptance of Extended Abstracts

The Secretariat reserves the right to exclude extended abstracts that do not comply with its technical or scientific quality standards and that do not apply to one of the topics listed in Section C.

Authors will be informed by **1 December 2026** as to whether their submission has been accepted, either orally or as a poster, for presentation at the conference.

Accepted contributions will also be reproduced in an unedited electronic compilation of extended abstracts which will be made available to all registered participants of the conference.

G.3. Proceedings

Following the conference, the IAEA will publish a summary report. The proceedings will be available to read online.

H. Participation and Registration

All persons wishing to participate in the event must be designated by an IAEA Member State or should be a member of an organization that has been invited to attend.

Registration through the InTouch+ platform:

1. Access the InTouch+ platform (<https://intouchplus.iaea.org>):

- Persons with an existing NUCLEUS account can [sign in here](#) with their username and password;
- Persons without an existing NUCLEUS account can [register here](#).

2. Once signed in, prospective participants can use the InTouch+ platform to:

- Complete or update their personal details under ‘Basic Profile’ (if no financial support is requested) or under ‘Complete Profile’ (if financial support is requested) and upload the relevant supporting documents;
- Search for the relevant event (**EVT2502514**) under the ‘My Eligible Events’ tab;
- Select the Member State or invited organization they want to represent from the drop-down menu entitled ‘Designating authority’ (if an invited organization is not listed, please contact Conference.Contact-Point@iaea.org);

- If applicable, indicate whether a paper is being submitted and complete the relevant information;
- If applicable, indicate whether financial support is requested and complete the relevant information (this is not applicable to participants from invited organizations);
- Based on the data input, the InTouch+ platform will automatically generate Participation Form (Form A), Form for Submission of a Paper (Form B) and/or Grant Application Form (Form C);
- Submit their application.

Once submitted through the InTouch+ platform, the application together with the auto-generated form(s) will be transmitted automatically to the required authority for approval. If approved, the application together with the form(s) will automatically be sent to the IAEA through the online platform.

NOTE: Should prospective participants wish to submit a paper or request financial support, the application needs to be submitted by the specified deadlines (see section O).

For additional information on how to apply for an event, please refer to the [InTouch+ Help](#) page. Any other issues or queries related to InTouch+ can be sent to InTouchPlus.Contact-Point@iaea.org.

If it is not possible to submit the application through the InTouch+ platform, prospective participants are requested to contact the IAEA's Conference Services Section via email: Conference.Contact-Point@iaea.org.

Participants are hereby informed that the personal data they submit will be processed in line with the [Agency's Personal Data and Privacy Policy](#) and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

I. Expenditures and Grants

No registration fee is charged to participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the conference. The IAEA has, however, limited funds at its disposal to help cover the cost of attendance of certain participants. Upon specific request, such assistance may be offered to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the conference.

If participants wish to apply for a grant, they should submit applications to the IAEA using the InTouch+ platform through their competent national authority (see Section H). Participants should ensure that applications for grants are submitted by **30 October 2026**.

Applications must be accompanied by Participation Form (Form A) and Grant Application Form (Form C) which are autogenerated in the InTouch+ platform.

For this event, the submission of an abstract (and Form B) is a requirement for applications for financial support.

Applications that do not comply with the above conditions cannot be considered.

Approved grants will be issued in the form of a lump sum payment that usually covers **only part of the cost of attendance**.

J. Distribution of Documents

A preliminary and final programme will be made available on the conference web page (see Section Q) prior to the start of the conference. The electronic compilation of extended abstracts will be accessible free of charge to participants registered for the conference.

K. Exhibitions

A limited amount of space will be available for commercial vendors' displays/exhibits during the conference. Interested parties should contact the Scientific Secretariat by email imic2027@iaea.org by **14 December 2026**.

L. Working Language

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

M. Venue and Accommodation

The conference will be held at the Vienna International Centre (VIC), where the IAEA's Headquarters are located. Participants are advised to arrive at Checkpoint 1/Gate 1 of the VIC one hour before the start of the event on the first day in order to allow for timely registration. Participants will need to present an official photo identification document in order to be admitted to the VIC premises.

Participants must make their own travel and accommodation arrangements. Hotels offering a reduced rate for participants are listed on <https://www.iaea.org/events>. Please note that the IAEA is not in a position to assist participants with hotel bookings, nor can the IAEA assume responsibility for paying fees for cancellations, re-bookings and no-shows.

N. Visas

Participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria as early as three months but not later than four weeks before they travel to Austria. Since Austria is a Schengen State, persons requiring a visa will have to apply for a Schengen visa. In States where Austria has no diplomatic mission, visas can be obtained from the consular authority of a Schengen Partner State representing Austria in the country in question.

For more information, please see the Austria Visa Information document available on <https://www.iaea.org/events>.

O. Key Deadlines and Dates

Submission of extended abstracts through IAEA-INDICO	30 October 2026
Submission of Form B (together with Form A) through the InTouch+ platform	30 October 2026
Submission of Form C (together with Form A) through the InTouch+ platform	30 October 2026
Notification of acceptance of extended abstracts for oral or poster presentation	1 December 2026
Submission of Form A only (no paper submission, no grant request) through the InTouch+ platform	11 May 2027

P. Conference Secretariat

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretaries and correspondence on administrative matters to the IAEA's Conference Services Section.

Q. Conference Web Page

Please visit the IAEA conference [website](#) regularly for new information regarding this conference.