



## **RAS.6-078**

### **Workshop: Nuclear Medicine Techniques in Neurological Diseases: Emphasis on Oncology and Neurology (ICNMP-PA)**

#### **INFORMATION SHEET**

**Project Number & Title** RAS.6-078: Strengthening Nuclear Medicine Applications through Education and Training to Help Fighting Non-Communicable Diseases (ARASIA MEMBER STATES)

**Place** Osaka, Japan

**Dates** 23-27 May 2016

**Deadline for Nominations** XXXXXXXX

**Language** English

**Organizers** The International Atomic Energy Agency (IAEA) in cooperation with the Government of the Korea

**Host Country Organizer**

HATAZAWA, Jun  
Osaka University Graduate School of Medicine  
Department of Nuclear Medicine and Tracer Kinetics  
565-0871 Osaka  
Japan

Tel: 81668793461

Fax: 81668793469

E-mail: [hatazawa@tracer.med.osaka-u.ac.jp](mailto:hatazawa@tracer.med.osaka-u.ac.jp)

**IAEA Organizers**

Mr Abdulghani Shakhashiro,  
Department of Technical  
Cooperation  
Division of ARASIA region and  
Pacific  
International Atomic Energy  
Agency

Mr Thomas Neil B. Pascual  
NAHU - Nuclear Medicine and  
Diagnostic Imaging Section/IAEA  
Tel: +43 1 2600 21688  
Email: [T.Pascual@iaea.org](mailto:T.Pascual@iaea.org)

## **Purpose**

The objectives of this Meeting are:

- The objectives of this workshop will be to provide participants with the most recent update on the use of PET/CT (FDG and non-FDG) and SPECT/CT in Neurological Diseases. Participants should be nuclear medicine physicians from Member States where PET/CT and/or SPECT/CT are already implemented in clinical practice or very close to be. This workshop will enable the participants towards clinical indications for each procedure and appropriate image interpretation through read with expert sessions. Emphasis will be given on the Neurology protocols under the IAEA Curricula for Nuclear Medicine Professionals (ICNMP).
- Familiarize nuclear medicine physicians or relevant counterpart with the current status of brain SPECT and PET imaging. The program focuses on established clinical applications covering cerebrovascular disease, epilepsy, brain tumours, dementia and movement disorders.
- Review and update the current protocols on brain SPECT/CT and PET/CT imaging focusing on dose optimization and appropriateness criteria, including radiopharmaceutical and imaging modality choice. These include parameters such as clinical indications, scan interpretation, patient positioning, radiopharmaceutical choice and dosimetry.
- Review sessions on image interpretations, protocol applications and processing
- Review current status of Nuclear medicine profession in ARASIA member states.

## **Expected Outputs**

The expected outputs include:

- (1) Improved clinical practice in terms of appropriate application of brain imaging (neurology) using SPECT/CT and PET/CT nuclear medicine techniques.
- (2) Updated protocols on brain imaging using nuclear medicine techniques, focusing on dose optimization and appropriateness criteria, including radiopharmaceutical and imaging modality choice, highlighting IAEA and international guidelines.
- (3) Updated workplan in relation to emerging issues.

## **Scope and Nature**

Review and assess the current status and role of Nuclear Medicine Techniques in the Diagnosis and Clinical Management of Neurological Diseases in the ARASIA region. This workshop focuses on Role of SPECT/CT and PET/CT (FDG and non-FDG) in brain imaging

## **Background Information**

There is a growing awareness among IAEA Member States about the enormous magnitude of Non- Communicable Diseases (NCDs) throughout the world and, particularly, in developing countries. Currently, chronic diseases claim more than 35 million lives each year and account for more than 60% of all deaths worldwide. This figure includes 16 million premature deaths involving people under the age of 70. The World Health Organization (WHO) projects that the burden of NCDs will continue to increase by a further 17 per cent over the next 10 years, most markedly in Low and Middle Income (LMI) countries. To ensure cost-effective and successful therapeutic treatments, patients affected by NCDs, not only cancer patients but also cardiac, renal thyroid patients; need to be early diagnosed. Nuclear Medicine is an area of medical imaging using radionuclides, which plays an important role in many diseases, and in the case of cancer and cardiovascular diseases, new techniques, such as positron emission tomography (PET) and Single-Photon Emission Computed Tomography (SPECT), have become extremely important, because they allow for the visualization of organ activity and detection of early stage diseases. All ARASIA States Parties have conventional and basic nuclear medicine facilities in place and most of the ARASIA States Parties have recently embarked on the introduction of hybrid nuclear modalities (SPECT-CT and PET/CT). However, most of these States have inadequate nuclear medicine capabilities as the base of practitioners with solid training is rather limited. Consequently; the nuclear medicine services in the ARASIA States Parties will definitely need vital support in human capacity development in order to meet and cope with the demand for such services. Therefore, this project is expected to stimulate regional cooperation among the nuclear medicine facilities in the ARASIA States Parties and will contribute to strengthening the nuclear medicine capacity in the region.

## **Participation**

Each Member State may submit one nomination

## **Participants' Qualifications:**

Candidates must be Nuclear Medicine Physician with strong background and interest in Brain Imaging. The candidates should have been involved in activities in this field at national and international levels. Nominations from Nuclear Medicine technologists will also be considered.

## **Nomination Procedure:**

Nominations (**including those of local participants**) should be submitted on the standard IAEA Nomination Form for Meeting/Workshop and National Consultant (available on the IAEA web-site: <http://www.iaea.org/>) or through the InTouch platform at: <http://intouch.iaea.org>.

Completed forms should be endorsed by relevant national authorities and returned to the Agency through official channels, i.e. the office of the National RCA Representative.

The applications should contain sufficient information to establish the nominees have the required qualifications. The nominated candidate may not be selected if sufficient information is not provided.

Applications must be received by the International Atomic Energy Agency, P.O. Box 100, A-1400 Vienna Austria, not later than **XXXXX**. Nominations received after this date or which have not been routed through established official channels, cannot be considered.

Advanced nominations through facsimile (+43-1-2600-7), or e-mail (Official@iaea.org) are welcomed. The facsimile / e-mail should contain the following basic information about the candidate: name, date of birth, academic qualifications, and current position including the exact nature of the duties carried out, proficiency in English and full contact address including telephone/email/facsimile numbers.

## **Security in the Field**

It is recommended that meeting and training course participants complete the courses *Basic Security in the Field: Safety, Health and Welfare II (BSITF II – new version mandatory as of 1 September 2012)* and *Advanced Security in the Field (ASITF)* prior to undertaking missions to duty stations where UN security phases are in effect.

The aim of these courses is to educate participants on how best to avoid or minimize potential dangers and threats, and to show what individuals can do if they find themselves in insecure situations.

- Access to the courses, further information and FAQ can be found under the following link:  
[https://training.dss.un.org/courses/v21/pages/dss\\_login\\_register.php](https://training.dss.un.org/courses/v21/pages/dss_login_register.php)

Upon successful completion of the courses, certificates will be generated automatically. Copies of these certificates should be uploaded directly through the InTouch platform under “My Files” or forwarded as an e-mail attachment to the IAEA administrative contact indicated below.

Please keep a copy of these certificates, as they are *valid for a period of three (3) years*. If you are already certified on the BSITF II and ASITF courses, please upload them directly through InTouch or forward them to the IAEA administrative contact.

## **Administrative and Financial Arrangements:**

Nominating Governments will be informed in due course of the names of the candidates who have been selected and will, at that time, be given full details on the procedures to be followed with regard to administrative and financial matters.

Selected participants from countries eligible to receive technical assistance will be provided with a round trip economy class air ticket from their home countries to **Osaka, Japan** and a stipend sufficient to cover the cost of their accommodation, food, and minor incidentals. Shipment of accumulated workshop materials to the participants’ home countries is not the responsibility of the IAEA.

The organizers of the workshop do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the course, and it is clearly understood that each Government, in nominating participants, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

