

International Conference on Molecular Imaging and Clinical PET-CT in the Era of Theranostics

IPET - 2020
goes virtual

24 – 26 November 2020

A woman is shown in profile, wearing VR goggles. Overlaid on her face is a colorful PET scan image, showing internal structures in shades of blue, yellow, and red. The entire image is framed by a thin blue border.

BEYOND THE VISIBLE

PROGRAMME



IAEA

International Atomic Energy Agency
Atoms for Peace and Development

TUESDAY, 24 NOVEMBER 2020

10:00 - 10:15

OPENING SESSION

Najat Mokhtar, Deputy Director General, Head of the Department of Nuclear Sciences and Applications, IAEA

May Abdel-Wahab, Director, Division of Human Health, Department of Nuclear Sciences and Applications, IAEA

PLENARY SESSION 1:

IAEA Coordinator: Diana Paez

Keynote lectures

Chairperson: Wim Oyen, EANM

10:15 - 10:30

The Burden of Cancer

Andre Ilbawi, WHO

Discuss the global burden and trends of cancer

10:30 - 10:45

Medical Imaging: A Global Perspective

Diana Paez, IAEA

Understand the disparities in access to medical imaging and nuclear medicine

10:45 - 11:10

Artificial Intelligence and Machine Learning

Georg Langs, ESR

Get familiar with artificial intelligence and machine learning and its applications in medical imaging

11:10 - 11:30

Impact of Theranostics in Personalized Medicine

Wim Oyen, EANM

Discuss the fundamentals of theranostics and its applications in personalized medicine

11:30 - 11:50

Immunotherapy

Jose Antonio Obando, SNMMI

Discuss the role of immunotherapy in cancer management and how to evaluate the patterns of response and progression

11:50 - 12:05

Live Q/A

12:05 - 12:20

ABSTRACT SESSION 1

IAEA Coordinator: Francesco Giammarile

Chairperson: Henry Bom, ARCCNM

12:20 - 12:35

Break

INTERACTIVE SESSION 1

IAEA Coordinator: Olivier Pellet

12:35 - 12:55

Read with the Expert: CT Abdomen and Pelvis

Alvaro Huete, Pontifical Catholic University of Chile, Chile

Discuss CT findings that should not be overlooked when an abdomen and pelvis PET/CT study is being reported

12:55 - 13:15

Read with the Expert: CT Thorax

Tom Brian Lynch, Queen's University Belfast, UK

Discuss CT findings that should not be overlooked when a thorax PET/CT study is being reported

CLINICAL SESSION 1:**Colon Cancer**

IAEA Coordinator: Olivier Pellet

Chairperson: Giuliano Mariani, University of Pisa, Italy

13:15 - 13:35

What the Clinician Needs to Know

Vivek Subbiah, MD Anderson Cancer Center, USA

Understand the importance of medical imaging in the management of patients with colon cancer

13:35 - 13:55

Role of PET/CT in Colon Cancer

Homer Macapinlac, MD Anderson Cancer Center, USA

Discuss the role of PET/CT in staging and follow-up of patients with colon cancer

13:55 - 14:10

Live Q/A

CLINICAL SESSION 2:

IAEA Coordinator: Miriam Mikhail

Lung Cancer

Chairperson: Irene Virgolini, WARMTH

14:10 - 14:30

Radiation Therapy in Patients with Lung Cancer

Ciro Franzese, Humanitas Research Hospital - Humanitas University, Italy

Discuss the indications of radiation therapy in management of patients with lung cancer

14:30 - 14:50

Role of PET/CT in Solitary Pulmonary Nodule

Elba Etchebehere, University of Campinas, Brazil

Understand the complementary roles of CT and PET in the characterization of SPN

14:50 - 15:10

Role of PET/CT in Lung Cancer Staging

Victor Gerbaudo, Brigham and Women's Hospital, Harvard Medical School, USA

Discuss the role of PET/CT in staging and follow-up of patients with lung cancer

15:10 - 15:30

Role of PET/CT in Radiation Therapy Planning

Arturo Chiti, EJMNI

Discuss the role of PET/CT in radiation therapy planning for patients with lung cancer

15:30 - 15:45

Live Q/A

15:45 - 16:00

ABSTRACT SESSION 2

IAEA Coordinator: Miriam Mikhail

Chairperson: Akram Al-Ibraheem, King Hussein Cancer Center, Jordan

WEDNESDAY, 25 NOVEMBER 2020**CLINICAL SESSION 3:**

IAEA Coordinator: Enrique Estrada

Head and Neck Cancers

Chairperson: Gopinath Gnanasegaran, Royal Free London NHS Foundation Trust, UK

10:00 - 10:20

Role of CT and MRI

Soraya Robinson, ESR

Recognize the role of CT and MRI in diagnosis, staging and follow-up of patients with head and neck cancers

10:20 - 10:40

Role of PET/CT

Wim Oyen, EANM

Recognize the role of PET/CT in staging and follow-up of patients with head and neck cancers

10:40 - 10:55		Live Q/A
	PLENARY SESSION 2:	IAEA Coordinator: Diana Paez
	Education, Ethics and Leadership	Chairperson: Stefano Fanti, EANM
10:55 - 11:15	Ethics and Leadership <i>Understand the role of ethics and leadership in medical imaging</i>	Sobhan Vinjamuri, Royal Liverpool and Broadgreen University Hospitals NHS Trust, UK
11:15 - 11:35	Challenges in Theranostics: Major Role of Education and Training <i>Discuss the major role of education and training in theranostics</i>	Jean-Luc Urbain, WFNMB
11:35 - 11:55	Challenges in Education and Research in Nuclear Medicine <i>Define the challenges in education and research in nuclear medicine</i>	Andrew Scott, Olivia Newton-John Cancer Research Institute, Australia
11:55 - 12:05		Live Q/A
12:05 - 12:20	ABSTRACT SESSION 3	IAEA Coordinator: Pilar Orellana
		Chairperson: Jun Hatazawa, AOFNMB
12:20 - 12:35		Break
	INTERACTIVE SESSION 2:	IAEA Coordinator: Enrique Estrada
	PET/CT	
12:35 - 12:55	Pearls and Pitfalls in PET/CT <i>Discuss PET findings that should not be overlooked or misinterpreted</i>	Ora Israel, FSNMMI and Israel Institute of Technology - Technion Haifa, Israel
12:55 - 13:15	Appropriate Use of PET/CT in Paediatrics <i>Review the role of PET/CT in paediatric oncology, with special emphasis on appropriate use criteria</i>	Barry Shulkin, St. Jude Children's Research Hospital, USA
	CLINICAL SESSION 4:	IAEA Coordinator: Pilar Orellana
	Lymphomas	Chairperson: Arturo Chiti, EJNMMI and Humanitas Research Hospital - Humanitas University, Italy
13:15 - 13:35	What the Clinician Needs to Know <i>Understand the role of medical imaging in the management of patients with lymphoma</i>	Samir Nabhan, Federal University of Parana, Brazil
13:35 - 13:55	RT Planning <i>Discuss the indications of radiation therapy in the management of patients with lymphoma</i>	Berardino de Bari, University of Neuchâtel, Switzerland
13:55 - 14:25	Role of PET/CT in Staging and Evaluation of Treatment Response <i>Discuss the role of PET/CT in staging follow-up of patients with lymphoma</i>	Juliano Cerci, ALASBIMN
14:25 - 14:40		Live Q/A
14:40 - 14:50		Break

CLINICAL SESSION 5:**Gynaecological Cancers**

IAEA Coordinator: Olivier Pellet

Chairperson: Ora Israel, FSNMMI and Israel Institute of Technology - Technion Haifa, Israel

14:50 - 15:10

Role of PET/CT in Gynaecological Cancers

Giuliano Mariani, University of Pisa, Italy

Discuss the role of PET/CT in staging and follow-up of patients with gynaecological cancers

15:10 - 15:30

Role of PET/CT in Breast Cancer

Rathan Subramaniam, University of Otago, New Zealand

Discuss the role of PET/CT in staging and follow-up of patients with breast cancer

15:30 - 15:45

Live Q/A

15:45 - 16:00

ABSTRACT SESSION 4

IAEA Coordinator: Olivier Pellet

Chairperson: Mohamad Haidar, ARSNM

THURSDAY, 26 NOVEMBER 2020**CLINICAL SESSION 6:****Neuroendocrine Tumours**

IAEA Coordinator: Francesco Giammarile

Chairperson: Ora Israel, FSNMMI and Israel Institute of Technology - Technion Haifa, Israel

10:00 - 10:20

Role of CT and MRI in NET

Dietmar Tamandl, ISR

Recognize the role of CT and MRI in diagnosis, staging and follow-up of patients with NET

10:20 - 10:40

Role of Somatostatin Receptor PET/CT in NET (Agonist/ Antagonist)

Guillaume Nicolas, Lausanne University Hospital, Switzerland

Understand the role of radionuclide imaging in the management of patients with NET

10:40 - 10:50

Lutetium-peptides Therapies in NET

Irene Virgolini, WARMTH

Discuss the applications of beta-emitting radionuclide therapies in patients with NET

10:50 - 11:00

Radionuclide therapies in NET: Role of Alpha-emitters

Jolanta Kunikowska, EANM

Discuss the applications of alpha-emitting radionuclide therapies in patients with NET

11:00 - 11:15

Live Q/A

CLINICAL SESSION 7:

IAEA Coordinator: Pilar Orellana

Thyroid Cancer

Chairperson: Henry Bom, ARCCNM

11:15 - 11:30

Role of Medical Imaging in Thyroid Cancer

Partha Choudhury, WARMTH

Understand the role of medical imaging in the management of patients with thyroid cancer

11:30 - 11:45

Radionuclide Therapies: Where Are We?

Markus Luster, University of Marburg, Germany

Status, trends and new perspectives in radionuclide therapies of thyroid cancer

11:45 - 12:00	Case Reviews of Patients with Thyroid Cancer <i>Case reviews of patients with thyroid cancer</i>	Sabina Dizdarevic, Brighton and Sussex University Hospitals NHS Trust, UK
12:00 - 12:15		Live Q/A
12:15 - 12:30	ABSTRACT SESSION 5	IAEA Coordinator: Enrique Estrada Chairperson: Gopinath Gnanasegaran, Royal Free London NHS Foundation Trust, UK
12:30 - 12:45		Break
	INTERACTIVE SESSION 3:	IAEA Coordinator: Diana Paez
	COVID -19	
12:45 - 13:00	COVID-19: X-ray and US Features <i>Recognize X-ray and US features of COVID-19 pulmonary lesions</i>	Ivana Blazic, ESR
13:00 - 13:20	COVID-19: CT Features <i>1. Recognize chest-CT features of COVID-19 and other viral pneumonia</i> <i>2. Detect CT signs of COVID-19 lung complications</i>	Marie-Pierre Revel, Paris Descartes University, France
13:20 - 13:35	COVID-19: SPECT and PET Features <i>Recognize features of COVID-19 in PET/CT or other nuclear medicine scans</i>	Jamshed Bomanji, Univeristy College London, UK
	CLINICAL SESSION 8:	IAEA Coordinator: Enrique Estrada
	Prostate Cancer	Chairperson: Arturo Chiti, EJMIMI and Humanitas Research Hospital - Humanitas University, Italy
13:35 - 13:55	What the Clinician Needs to Know <i>Understand the role of medical imaging in the management of patients with prostate cancer</i>	Jochen Walz, Institute Paoli-Calmettes, France
13:55 - 14:15	Role of MRI in Prostate Cancer <i>Discuss the role of MRI in the evaluation of patients with prostate cancer</i>	Olivier Rouvière, University Hospital Centre of Lyon, France
14:15 - 14:35	Role of PET/CT in the Evaluation of Prostate Cancer <i>Discuss the role of PET/CT in the evaluation of patients with prostate cancer</i>	Stefano Fanti, EANM
14:35 - 14:55	Radionuclide Therapies in Prostate Cancer <i>Evaluate the role of radionuclide therapies in patients with prostate cancer</i>	Mike Sathekge, SNM and University of Pretoria / Steve Biko Academic Hospital
14:55 - 15:10		Live Q/A

PLENARY SESSION 3:

Future Directions

15:10 - 15:30

PET-CT: Biochemistry of the Living Body

1. *Understand how radiolabelled molecules can be used to assess metabolic processes occurring within the cells*
2. *Discuss where we are and where we are going in the development of radiolabelled molecules for PET/CT*

15:30 - 15:50

Trends in Medical Imaging

Understand the trends and new perspectives in medical imaging

CLOSING CEREMONY

15:50 - 16:20

Highlight lecture

Highlights of IPET-2020

16:20 - 16:30

Closing remarks

IAEA Coordinator: Diana Paez

Chairperson: Stefano Fanti, EANM

Marcus Hacker, AKH, Austria

Richard Wahl, SNMMI and Mallinckrodt
Institute of Radiology, Washington
University in St Louis School of Medicine,
USA

IAEA Coordinator: Francesco Giammarile

Andrew Scott, Olivia Newton-John
Cancer Research Institute, Australia

Diana Paez, IAEA

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