

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

**IPET - 2020**  
*goes virtual*

24 – 26 November 2020



**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, Yale University School of Medicine, VA Connecticut Healthcare System, USA

*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**

13:15 - 13:35

What the Clinician Needs to Know

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

IAEA Coordinator: Olivier Pellet

Chairperson: Giuliano Mariani, University of Pisa, Italy

Vivek Subbiah, MD Anderson Cancer Center, USA

13:35 - 13:55

Role of PET/CT in Colon Cancer

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

Homer Macapinlac, MD Anderson Cancer Center, USA

13:55 - 14:10

Live Q/A

**CLINICAL SESSION 2:****Lung Cancer**

14:10 - 14:30

Radiation Therapy in Patients with Lung Cancer

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

IAEA Coordinator: Miriam Mikhail

Chairperson: Irene Virgolini, WARMTH

Ciro Franzese, Humanitas Research Hospital - Humanitas University, Italy

14:30 - 14:50

Role of PET/CT in Solitary Pulmonary Nodule

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

Elba Etchebehere, University of Campinas, Brazil

14:50 - 15:10

Role of PET/CT in Lung Cancer Staging

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

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

15:10 - 15:30

Role of PET/CT in Radiation Therapy Planning

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

Arturo Chiti, EJNMMI

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:****Head and Neck Cancers**

10:00 - 10:20

Role of CT and MRI

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

IAEA Coordinator: Enrique Estrada

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

Soraya Robinson, ESR

10:20 - 10:40

Role of PET/CT

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

Wim Oyen, EANM

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

	<b>CLINICAL SESSION 5:</b>	IAEA Coordinator: Olivier Pellet
	<b>Gynaecological Cancers</b>	Chairperson: Ora Israel, SNMMI
14:50 - 15:10	Role of PET/CT in Gynaecological Cancers	Giuliano Mariani, University of Pisa, Italy
	<i>Discuss the role of PET/CT in staging and follow-up of patients with gynaecological cancers</i>	
15:10 - 15:30	Role of PET/CT in Breast Cancer	Rathan Subramaniam, University of Otago, New Zealand
	<i>Discuss the role of PET/CT in staging and follow-up of patients with breast cancer</i>	
15:30 - 15:45		Live Q/A
15:45 - 16:00	<b>ABSTRACT SESSION 4</b>	IAEA Coordinator: Olivier Pellet
		Chairperson: Mohamad Haidar, ARSNM

## THURSDAY, 26 NOVEMBER 2020

	<b>CLINICAL SESSION 6:</b>	IAEA Coordinator: Francesco Giammarile
	<b>Neuroendocrine Tumours</b>	Chairperson: Ora Israel, SNMMI
10:00 - 10:20	Role of CT and MRI in NET	Dietmar Tamandl, ISR
	<i>Recognize the role of CT and MRI in diagnosis, staging and follow-up of patients with NET</i>	
10:20 - 10:40	Role of Somatostatin Receptor PET/CT in NET (Agonist/ Antagonist)	Guillaume Nicolas, Lausanne University Hospital, Switzerland
	<i>Understand the role of radionuclide imaging in the management of patients with NET</i>	
10:40 - 10:50	Lutetium-peptides Therapies in NET	Irene Virgolini, WARMTH
	<i>Discuss the applications of beta-emitting radionuclide therapies in patients with NET</i>	
10:50 - 11:00	Radionuclide therapies in NET: Role of Alpha-emitters	Jolanta Kunikowska, EANM
	<i>Discuss the applications of alpha-emitting radionuclide therapies in patients with NET</i>	
11:00 - 11:15		Live Q/A
	<b>CLINICAL SESSION 7:</b>	IAEA Coordinator: Pilar Orellana
	<b>Thyroid Cancer</b>	Chairperson: Henry Bom, ARCCNM
11:15 - 11:30	Role of Medical Imaging in Thyroid Cancer	Partha Choudhury, WARMTH
	<i>Understand the role of medical imaging in the management of patients with thyroid cancer</i>	
11:30 - 11:45	Radionuclide Therapies: Where Are We?	Markus Luster, University of Marburg, Germany
	<i>Status, trends and new perspectives in radionuclide therapies of thyroid cancer</i>	

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	<b>ABSTRACT SESSION 5</b>	IAEA Coordinator: Enrique Estrada  Chairperson: Gopinath Gnanasegaran, Royal Free London NHS Foundation Trust, UK
12:30 - 12:45		Break
	<b>INTERACTIVE SESSION 3:</b> <b>COVID -19</b>	IAEA Coordinator: Diana Paez
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  <ol style="list-style-type: none"><li><i>Recognize chest-CT features of COVID-19 and other viral pneumonia</i></li><li><i>Detect CT signs of COVID-19 lung complications</i></li></ol>	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
	<b>CLINICAL SESSION 8:</b> <b>Prostate Cancer</b>	IAEA Coordinator: Enrique Estrada
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>	Chairperson: Arturo Chiti, EJMIMI and Humanitas Research Hospital - Humanitas University, Italy  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**

IAEA Coordinator: Diana Paez

Chairperson: Stefano Fanti, EANM

Marcus Hacker, AKH, Austria

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*

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

**CLOSING CEREMONY**

IAEA Coordinator: Francesco Giammarile

15:50 - 16:20

Highlight lecture

*Highlights of IPET-2020*

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

16:20 - 16:30

Closing remarks

Diana Paez, IAEA

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