CTE Session 3
Technologists Committee / European Society for Radiotherapy and Oncology (ESTRO)
Accessible on-demand at any time

Session Title
PET/CT for RT Planning

Chairperson
Luca Camoni (Brescia, Italy)

Programme
30 min Rexhep Durmo (Reggio Emilia, Italy): 20 years of Positron Emission Tomography in Radiation Therapy - Clinical Perspective
30 min Bartosz Bak (Poznan, Poland / ESTRO): Recent Advances in Radiotherapy
27 min Rayjanah Allie & Julie Heywood (London, United Kingdom): Recent Updates of PET Imaging in Radiotherapy Planning
3 min Session Summary by Chairperson

Educational Objectives
1. To understand the recent advances in radiotherapy
2. Indicate the general considerations and challenges of the collaboration between nuclear medicine and radiotherapy departments
3. To describe the clinical role of PET and its role in radiotherapy planning
4. State the achievements of 20 years of radiotherapy using PET.

Summary
This session has been jointly organized by EANM and ESTRO (the European Society for Radiotherapy and Oncology). In 2020, Worldwide occurred an estimated 19.3 million new cancer cases and almost 10.0 million death were caused by cancer. Last year, the most commonly diagnosed cancers were: breast cancer with an estimated 2.3 million new cases (11.7%), lung (11.4%), colorectal (10.0 %) and prostate (7.3%). Despite the increase in cases, the prognosis of cancers has been improving with the advances in diagnostic and therapeutic modalities. The Positron emission tomography (PET) and Radiotherapy (RT) play a key role to increase the survival rate.
The first talk will outline the achievements of 20 years of radiotherapy using PET, since the first application to the current diagnostic and therapy capabilities. The ESTRO representative will focus on recent updates in radiation therapy. Finally, the third talk will describe how the imaging assists radiation therapists and how is a useful tool in radiotherapy planning.

Key Words
Image-guided therapy, tumour delineation, advances, PET