ABSTRACT  Positron Emission Tomography (PET) has evolved from a clinical research tool to a standard imaging technique with the advent of PET/CT (computed tomography) for diagnosis, staging, and monitoring of response in cancer patients. This presentation will briefly review the evolution of the technology to improve patient care as it is incorporated into the rapidly evolving multi-disciplinary care teams. An overview of the solutions to various challenges of evolving technology, accreditation, and adaptation to multi-modality treatment techniques to allow timely, accurate reporting of these important imaging studies. Future directions to improve this molecular imaging technique using tracers beyond FDG will be discussed including the use of radioisotope based therapies for cancer.

CME RADIOLOGY GRAND ROUNDS
Department of Radiology
“MD Anderson Cancer Center Clinical PET Program: Past, Present and Future Directions”

Global Learning Objectives
• Critically analyze research, guidelines and appropriate use criteria to develop best-practice diagnosis and treatment strategies
• Evaluate latest innovations in imaging to assess safety and effectiveness

Session Learning Objectives
• Enable the audience to assess the evolving role of diagnostic imaging physicians in a multi-disciplinary care of cancer patients
• Apply quality improvement strategies to become an effective member of a multidisciplinary care team
• Evaluate the future role of novel radioisotope based molecular imaging techniques in oncology

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Accreditation
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