MEDICAL PHYSICS SEMINAR SERIES



Dr. Hania Al-Hallaq

Associate Professor of Radiation and Cellular Oncology University of Chicago

Monday, February 28, 2022 4:00PM (CT) Location: Room 1325 HSLC

Waiting to Exhale: Harnessing the Power of the Respiratory Cycle to Improve Radiotherapy and Assess Resulting Toxicities

Imaging protocols and radiation treatments have harnessed the respiratory cycle to quality optimize image and reduce radiation-induced normal tissue toxicities. The role of surface-guided radiotherapy to implement deep-inspiration breath-hold treatments for breast cancer patients. which can reduce organ-at-risk toxicities, will be presented. Next, the application of radiomics to analyze radiation-induced lung toxicities in CT scans taken at breath hold will be described. Finally, the role of medical physicists in implementing clinical innovations and translational research will be summarized.

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