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Imaging perspective in oncology:Application of radiomics in diagnosis, prognosis and treatment response of lung cancer.

Dr. Mona Fazel Ghaziyani

School of Paramedical School, Tabriz University of Medical Sciences, Tabriz, Iran

Abstract: Lung cancer is one of the most common cancers in the world, accounting for the first place in men (16.7%) and third in women (8.7%). During the past decades there have been many advances in the field of recognition and assessment of the cancer, such as medical imaging innovated with new hardware, new imaging agents and standardized protocols, allows the field to move towards quantitative imaging methods such as radiomics. Radiomics relies on computers to identify and analyze vast amounts of quantitative image features that were previously overlooked, unmanageable, or failed to be identified by human eyes. In radiomics images are more than pictures, they are data. Radiomics differs from computer-aided diagnosis and detection (CAD) systems. While both use medical images from computed tomography(CT) and magnetic resonance(MRI), CAD systems are designed to detect or diagnose a disease. Radiomics, on the other hand, extracts and stores features for hypothesis testing and to develop decision support tools. Radiomics is intended to supply imaging biomarkers for cancer detection, diagnosis, prognosis, treatment prediction, and monitoring even better than TNM staging. Different imaging modalities are used for radiomics analysis such as CT scan.CT imageshave a powerful application that exhibit strong contrast

Biography: Dr. Mona Fazel Ghaziyani is a doctor primarily located in Tabriz, Iran, NJ. He is a Assistant professor of Medical Physics, Dept. of Radiology

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