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Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Radiomics model for distinguishing tuberculosis and lung cancer on computed tomography scans

Cui EN *et al.* Radiomics can distinguish LC from TB

E-Nuo Cui, Tao Yu, Sheng-Jie Shang, Xiao-Yu Wang, Yi-Lin Jin, Yue Dong, Hai Zhao, Ya-Hong Luo, Xi-Ran Jiang

Abstract

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Background: Radiomics can quantify tumor phenotypic characteristics non-invasively by applying feature algorithms to medical imaging data. In this study, we investigated the association between radiomics features and the tumor histological subtypes, and we aimed to establish a nomogram for the classification of small cell lung cancer (SCLC) and non-small-cell lung cancer (NSCLC). Methods: This ...

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Author: Xenia Fave, Dennis Mackin, Jinzhong Yan...

Publish Year: 2015

Radiomics analysis of pulmonary nodules in low-dose CT for ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5903960>

I. Introduction. Lung cancer is the leading cause of cancer death in the world. The National Lung Cancer Screening Trial (NLST) showed a clear survival benefit for screening with a low-dose computed tomography (LDCT) in current and former smokers. 1 The early detection of lung cancer by LDCT can reduce mortality. Recently, the Lung Imaging Reporting and Data System (Lung-RADS) was ...

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Author: Wookjin Choi, Jung Hun Oh, Sadegh Riy...

Publish Year: 2018

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<https://www.cancertherapyadvisor.com/home/cancer...> ▾

Jul 16, 2020 · Study Suggests a Radiomic Model Can Identify High-Risk, Early-Stage Lung Cancer on CT Screening Susan Moench, PhD, PA-C Radiomic models that can distinguish aggressive from indolent early-stage...

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Background: **Radiomics** can quantify tumor phenotypic characteristics non-invasively by applying feature algorithms to medical imaging data. In this study, we investigated the association between **radiomics** features and the tumor histological subtypes, and we aimed to establish a nomogram for the classification of small cell **lung cancer** (SCLC) and non-small-cell **lung cancer** (NSCLC).Methods: This ...

[Radiomics based likelihood functions for cancer diagnosis](#)

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In this research work, we have developed two **radiomics driven likelihood models in Computed Tomography(CT)** images to **classify lung**, colon, head and **neck cancer**. Initially, two **diagnostic radiomic signatures** were derived by extracting 105 3-D features from **200 lung nodules** and by selecting the features with higher average scores from several supervised as well as unsupervised ...

Author: Hina Shakir, Hina Shakir, Yiming Den... **Publish Year:** 2019

[Radiomics based likelihood functions for cancer diagnosis ...](#)

<https://www.nature.com/articles/s41598-019-45053-x>

Jul 01, 2019 · In this research work, we have developed two **radiomics driven likelihood models in Computed Tomography(CT)** images to classify **lung**, colon, head and neck **cancer**.

Author: Hina Shakir, Hina Shakir, Yiming Den... **Publish Year:** 2019

[Radiomics for Classification of Lung Cancer Histological ...](#)

<https://www.sciencedirect.com/science/article/pii/S107663321830477X>

Sep 01, 2019 · To evaluate the performance of using **radiomics** method to classify **lung cancer** histological subtypes based on nonenhanced **computed tomography** images. Materials and Methods 278 patients with pathologically confirmed **lung cancer** were collected, including 181 nonsmall cell **lung cancer** (NSCLC) and 97 small cell **lung cancers** (SCLC) patients.

Cited by: 5 **Author:** Linning E, Lin Lu, Li Li, Hao Yang, Lawre...

Publish Year: 2019

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