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Quantitative analysis of diffusion weighted imaging to predict pathological good response to neoadjuvant chemoradiation for locally advanced rectal cancer

[PDF]

Z Tang, XY Zhang, [Z Liu](#), XT Li, YJ Shi, S Wang... - Radiotherapy and ..., 2019 - Elsevier

... Akaike's information criterion (AIC) [42], [43], and then entered into a multivariate logistic regression **model** to **predict** pGR patients ... Performance comparison of the three **prediction models** ... Calibration curve and the DCA are employed to further evaluate the best performing **model** ...

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Radiomics: images are more than pictures, they are data

[HTML Full]

[RJ Gillies](#), [PE Kinahan](#), [H Hricak](#) - Radiology, 2016 - pubs.rsna.org

... As mentioned previously, the power of the **model** is entirely dependent on the size and quality of the ... A study by Aerts et al (47) showed that a **radiomic** signature could be used to **predict** ... This study and others like it demonstrate the potential of **radiomics** for the identification of a ...

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Beyond imaging: the promise of radiomics

[PDF]

[M Avanzo](#), [J Stancanello](#), [I El Naqa](#) - Physica Medica, 2017 - Elsevier

... literature search, performed in Pubmed using the keywords: "**radiomics** OR **radiomic**" provided 97 ... of this search, we describe the methods used for building a **model** of prognostic ... Second, the domain of investigation for **radiomics** consists of association of features extracted form ...

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[HTML] The applications of radiomics in precision diagnosis and treatment of oncology: opportunities and challenges

[HTML]

[Z Liu](#), [S Wang](#), [JW Di Dong](#), [C Fang](#), [X Zhou](#), [K Sun](#)... - Theranostics, 2019 - ncbi.nlm.nih.gov

... 171 constructed an artificial neural network based **model**, and the AUC was 0.71-0.79 ... applied **radiomics** to identify patients with **locally advanced rectal cancer** who achieved PCR ... extracted **radiomic** features on T2WI and made **predictions** using random forest classification; the ...

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Radiomics in radiooncology—challenging the medical physicist

[JC Peeken](#), [M Bernhofer](#), [B Wiestler](#), [T Goldberg](#)... - Physica Medica, 2018 - Elsevier

... features, and (2) incorporating these features into a mathematical **model** to **predict** ... Multiple publications have discussed the influence of different **radiomic** software implementations on ... To harmonize the use of **radiomics**, the image biomarker standardization initiative (IBSI



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Multi-modal radiomics model to predict treatment response to neoadj



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Prediction of Response to Preoperative Neoadjuvant ... 翻译此页

Author: Tian X, Sun C, Sun C, Liu Z, Li W, Dua...

Publish Year: 2020

Objective: To investigate whether pre-treatment CT-derived radiomic features could be applied for prediction of clinical response to neoadjuvant chemotherapy (NACT) in locally advanced cervical cancer (LACC). Patients and Methods: Two hundred and seventy-seven LACC patients treated with NACT followed by surgery/radiotherapy were included in this multi-institution retrospective study. One ...

<https://www.frontiersin.org/articles/10.3389/fonc.2020.00077>

MRI-Based Radiomics Predicts Tumor Response to ... 翻译此页

Cited by: 1

Author: Xiaoping Yi, Qian Pei, Youming Zhang, Ho...

Publish Year: 2019

To the best of our knowledge, this was the first cohort studied to date utilizing monosequence-MRI-based machine learning radiomics to predict tumor response to neoadjuvant chemoradiation therapy in patients with locally advanced rectal cancer.

<https://www.frontiersin.org/articles/10.3389/fonc.2019.00552>

Radiomic analysis for pretreatment prediction of ... 翻译此页

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Author: Caixia Sun, Caixia Sun, Xin Tian, Zhenyu ...



A multi-modal radiomics model to predict treatment respor



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Deep Learning and Radiomics predict complete response ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6105676>

Aug 22, 2018 · Deep Learning and **Radiomics predict complete response** after **neo-adjuvant** chemoradiation **for locally advanced rectal cancer** Jean-Emmanuel Bibault , 1, 2 Philippe Giraud , 1 Martin Housset , 1 Catherine Durdux , 1 Julien Taieb , 3 Anne Berger , 4 Romain Coriat , 5, 6 Stanislas Chaussade , 5, 6 Bertrand Dousset , 7 Bernard Nordlinger , 8 and Anita ...

Cited by: [23](#)

Author: Jean-Emmanuel Bibault, Philippe Gira...

Publish Year: 2018

MRI-Based Radiomics Predicts Tumor Response to Neoadjuvant ...

<https://www.frontiersin.org/articles/10.3389/fonc.2019.00552> ▼

Jun 26, 2019 · Our **predictive model** based on the commonly used T2-weighted images on **pelvic Magnetic Resonance Imaging** (MRI) scans has the potential to be adapted in clinical practice. Novelty and Impact Statements: **Methods** for **predicting the response** of the locally advanced **rectal cancer** (LARC, T3-4, or **N+**) to **neoadjuvant chemoradiotherapy (nCRT)** is ...

Author: Xiaoping Yi, Qian Pei, Youming Zha... **Publish Year:** 2019

Radiomic analysis for pretreatment prediction of response ...

<https://www.sciencedirect.com/science/article/pii/S2352396419304918>

There was no study research the **prediction of response to neoadjuvant chemotherapy** in locally advanced **cervical cancer** by **radiomic analysis**. Added value of this study **Neoadjuvant chemotherapy (NACT)** is being considered as an **alternative treatment strategy** for patients with locally advanced cervical cancer (LACC) due to its ability to reduce the tumour volume and ...

Cited by: [2](#)

Author: Caixia Sun, Caixia Sun, Xin Tian, Zhen...

Publish Year: 2019

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 53707

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Multi-modal radiomics model to predict treatment response to neoadjuvant chemotherapy for locally advanced rectal cancer

Li ZY *et al.* Multi-modal radiomics model for LARC

Zheng-Yan Li, Xiao-Dong Wang, Mou Li, Xi-Jiao Liu, Zheng Ye, Bin Song, Fang Yuan, Yuan Yuan, Chun-Chao Xia, Xin Zhang, Qian Li

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