

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 60526

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Development of a computed tomography-based radiomics nomogram for the prediction of transarterial chemoembolization refractoriness in hepatocellular carcinoma

Xiang-Ke Niu, Xiao-Feng He

Abstract

BACKGROUND

Some patients with hepatocellular carcinoma (HCC) are more likely to experience disease progression despite continuous transarterial chemoembolization (TACE), which

Match Overview

1	Internet 142 words crawled on 21-Sep-2020 www.frontiersin.org	3%
2	Internet 90 words www.ncbi.nlm.nih.gov	2%
3	Crossref 82 words Roman Kloeckner, Michael B. Pitton, Christoph Dueber, Irene Schmidtman et al. "Validation of Clinical Scoring Sy	2%
4	Crossref 73 words Xin Wang, Zusen Wang, Liqun Wu. "Combined measurements of tumor number and size helps estimate the outi ...	2%
5	Internet 67 words crawled on 25-Feb-2020 pubs.rsna.org	1%
6	Internet 45 words crawled on 04-Nov-2020 atm.amegroups.com	1%
7	Internet 28 words crawled on 06-Jan-2020 www.ajronline.org	1%
8	Internet 23 words crawled on 12-Sep-2020 www.karger.com	<1%
9	Crossref 20 words Terzi, E., R. Golfieri, F. Piscaglia, M. Galassi, A. Dazzi, S. Leoni, E. Giampalma, M. Renzulli, and L. Bolondi. "Respo	<1%
10	Internet 16 words	<1%

The Usefulness of a CT-based Radiomics Nomogram for the Prediction of Posthepatectomy Liver Failure in Patients with Hepatocellular Carcinoma



ALL

IMAGES

VIDEOS

14,300 Results

Any time ▼

[CT-Based Radiomics Nomogram: A Potential Tool for ...](#)

<https://www.sciencedirect.com/science/article/pii/S1076633220302397>

May 05, 2020 · A **radiomics**-based **nomogram** for the preoperative **prediction** of posthepatectomy liver failure in **patients with hepatocellular carcinoma** Surg Oncol, 28 (2019), pp. 78-85, 10.1016/j.suronc.2018.11.013 Google Scholar

Author: Pei Nie, Ning Wang, Jing Pang, Guangji...

Publish Year: 2020

[Radiomics-based nomogram using CT imaging for noninvasive ...](#)

<https://www.thefreelibrary.com/Radiomics-based...> ▼

Sep 01, 2020 · Free Online Library: **Radiomics**-based **nomogram** using CT imaging for noninvasive preoperative **prediction** of early recurrence in **patients with hepatocellular carcinoma**.(ORIGINAL ARTICLE) by "Diagnostic and Interventional Radiology"; Health, general CAT scans Diagnostic imaging Diseases Care and treatment Relapse Glycoproteins **Hepatocellular carcinoma** Hepatoma Medical ...

[A CT-based radiomics nomogram for differentiation of focal ...](#)

<https://cancerimagingjournal.biomedcentral.com/...> ▼

Feb 24, 2020 · The purpose of this study was to develop and validate a **radiomics nomogram** for preoperative differentiating focal nodular hyperplasia (FNH) from **hepatocellular carcinoma** (HCC) in the non-cirrhotic liver. A total of 156 **patients** with FNH (n = 55) and HCC (n = 101) were divided into a training set (n = 119) and a validation set (n = 37). **Radiomics** features were extracted from triphasic contrast ...

Cited by: 1

Author: Pei Nie, Guangjie Yang, Jian Guo, Jingjing ...

Publish Year: 2020

[A radiomics-based nomogram for the preoperative prediction ...](#)

<https://www.sciencedirect.com/science/article/pii/S0960740418302305>



ALL

IMAGES

VIDEOS

5,700 Results

Any time ▾

A radiomics-based nomogram for the preoperative prediction ...

<https://www.sciencedirect.com/science/article/pii/S0960740418302305>

Mar 01, 2019 · **Radiomics nomogram for the prediction** of PHLF and the discrimination performance of this method. (A) The **radiomics nomogram** was developed in the training cohort and incorporated the Rad-score, the MELD score and PS. The above three predictors (2nd~4th lines) are represented and correspond to a point on the 1st axis.

Cited by: 12**Author:** Wei Cai, Wei Cai, Baochun He, Min Hu, Wen...**Publish Year:** 2019

Frontiers | Radiomics Analysis on Multiphase Contrast ...

<https://www.frontiersin.org/articles/10.3389/fonc.2020.01196> ▾

Radiomics Analysis on Multiphase Contrast-Enhanced CT: A Survival Prediction Tool in Patients With Hepatocellular Carcinoma Undergoing Transarterial Chemoembolization Xiang-Pan Meng 1 †, Yuan-Cheng Wang 1 †, Shenghong Ju 1 *, Chun-Qiang Lu 1, Bin-Yan Zhong 2, Cai-Fang Ni 2, Qi Zhang 1, Qian Yu 1, Jian Xu 3, JianSong Ji 4, Xiu-Ming ...

Cited by: 1**Author:** Xiang-Pan Meng, Yuan-Cheng Wang, Sheng...**Publish Year:** 2020

A computed tomography radiogenomic biomarker predicts ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.27877>

Apr 30, 2015 · **Hepatocellular carcinoma** (HCC) is the sixth-most common cancer worldwide and the third-leading cause of cancer-related deaths. 1 For patients with early-stage HCC, surgical resection and liver transplantation (LT) are potentially curative. 2 However, recurrence subsequent to surgical treatment is common, with 5-year rates reaching 70% after surgical resection and 35% post-LT. 3-6 ...

Cited by: 165**Author:** Sudeep Banerjee, David S. Wang, Hyun J. K...**Publish Year:** 2015

Frontiers | Deep Learning Predicts Overall Survival of ...

<https://www.frontiersin.org/articles/10.3389/fonc.2020.593292> ▾

Sep 30, 2020 · ObjectivesTo develop and validate a deep learning-based overall survival (OS) **prediction** model in patients with **hepatocellular carcinoma** (HCC) treated with **transarterial chemoembolization** (TACE) plus sorafenib.MethodsThis retrospective multicenter study consisted of 201 patients with treatment-naïve, unresectable HCC who were treated with TACE plus sorafenib.

Author: Lei Zhang, Wei Xia, Zhi-Ping Yan, Jun-H...**Publish Year:** 2020

Hepatocellular Carcinoma

Medical Condition

The most common form of liver cancer often seen in people with chronic liver diseases like cirrhosis.

Rare (Fewer than 200,000 cases per year in US)

May be preventable by vaccine

Often requires lab test or imaging

Treatment from medical professional advised

Can last several months or years

Caused mainly due to the chronic infection of the liver or DNA mutation of the liver cells. Characterized by unexplained weight loss, upper abdominal pain and yellowing of the skin. Treatment options include hepatectomy, target drug delivery and the use of radiation to kill the cancerous cells.

Symptoms

The early stages of the disease do not present any symptoms but in the later stages the symptoms which are noted are as follows:

- Upper abdominal pain
- Weight loss
- Jaundice
- Fluid in the abdomen
- Liver failure

Treatments

Treatment option which is employed depends on the stage of the condition, size and location of the tumor.

Medication

- Chemotherapy: Therapy where the drugs are used to kill the cancer cells.
[5-Fluorouracil](#) · [Capecitabine](#) · [Irinotecan](#) · [Oxaliplatin](#)
- Target drug delivery: Drugs which are target oriented help in slowing

ALL

IMAGES

VIDEOS

MAPS

NEWS

SHOPPING

5,710 Results

Any time ▼

Frontiers | Radiomics Analysis on Multiphase Contrast ...

<https://www.frontiersin.org/articles/10.3389/fonc.2020.01196> ▼

Radiomics Analysis on Multiphase Contrast-Enhanced CT: A Survival Prediction Tool in Patients With Hepatocellular Carcinoma Undergoing Transarterial Chemoembolization Xiang-Pan Meng 1 †, Yuan-Cheng Wang 1 †, Shenghong Ju 1 *, Chun-Qiang Lu 1, Bin-Yan Zhong 2, Cai-Fang Ni 2, Qi Zhang 1, Qian Yu 1, Jian Xu 3, JianSong Ji 4, Xiu-Ming ...

Cited by: 1

Author: Xiang-Pan Meng, Yuan-Cheng Wang, Sheng...

Publish Year: 2020

Frontiers | Utility of Radiomics for Predicting Patient ...

<https://www.frontiersin.org/articles/10.3389/fonc.2020.569435> ▼

Oct 14, 2020 · Introduction. **Hepatocellular carcinoma** (HCC) is the sixth most prevalent cancer worldwide, and the third leading cause of cancer-related deaths ().China accounts for more than 50% of the global incidence of HCC and HCC is the fourth most commonly diagnosed cancer ().Macrovascular invasion, where tumor cells invade the portal vein, hepatic veins, or the inferior vena cava in the liver (3, ...

Author: Kui Wu, Yongjie Shui, Wenzheng Sun, S...

Publish Year: 2020

A radiomics-based nomogram for the preoperative prediction ...

<https://www.sciencedirect.com/science/article/pii/S0960740418302305>

Mar 01, 2019 · **Radiomics nomogram for the prediction** of PHLF and the discrimination performance of this method. (A) The **radiomics nomogram** was developed in the training cohort and incorporated the Rad-score, the MELD score and PS. The above three predictors (2nd~4th lines) are represented and correspond to a point on the 1st axis.

Cited by: 12

Author: Wei Cai, Wei Cai, Baochun He, Min Hu, Wen...

Publish Year: 2019

Recent Updates of Transarterial Chemoembolization in ...

<https://europepmc.org/article/MED/33142892> ▼