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Name of Journal: *Artificial Intelligence in Medical Imaging*

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Manuscript Type: MINIREVIEWS

The application of radiomics in hepatocellular carcinoma: A review

Jin ZC *et al.* Radiomics in HCC

Zhi-Cheng Jin, Bin-Yan Zhong

Abstract

Hepatocellular carcinoma is the most common form of primary liver cancer with low 5-

The application of radiomics in hepatocellular carcinoma: A review



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Radiomics in hepatocellular carcinoma: a quantitative review

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This **review** aims to assess whether **radiomics** is a useful and reproducible method for clinical **management of hepatocellular carcinoma (HCC)** by reviewing the strengths and weaknesses of current radiomics literature pertaining specifically to HCC.

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PEOPLE ALSO ASK

How is radiomics used to treat hepatocellular carcinoma? ▾

What is the RQ score for radiomics in HCC? ▾

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Feedback

State-of-the-art in radiomics of hepatocellular carcinoma ...

https://pubmed.ncbi.nlm.nih.gov/31707435

Several studies have evaluated the use of radiomics in patients with hepatocellular carcinoma (HCC) with encouraging results, particularly in the pretreatment prediction of tumor biological characteristics, risk of recurrence, and survival.

Cited by: 10 Author: Joao Manoel Miranda Magalhaes Santos, ... 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
- Treatable by a medical professional
- Can last several months or years

It is caused mainly due to the chronic infection of the liver or DNA mutation of the liver cells. It is 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 options include hepatectomy, target drug delivery and the use of radiation to kill the cancerous cells.

Medication

- Chemotherapy: Therapy where the drugs are used to kill the cancer cells.
5-Fluorouracil · Capecitabine · Irinotecan · Oxaliplatin