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**Manuscript Type:** MINIREVIEWS

**Hepatocellular carcinoma Liver Imaging Reporting and Data Systems treatment response assessment: Lessons learned and future directions**

Anum Aslam, Richard Kinh Gian Do, Avinash Kambadakone, Bradley Spieler, Frank H Miller, Ahmed M Gabr, Resmi A Charalel, Charles Y Kim, David C Madoff, Mishal Mendiratta-Lala

## Abstract

Hepatocellular carcinoma (HCC) is a leading cause of morbidity and mortality worldwide with rising clinical and economic burden as incidence increases. There are a

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## Assessment of hepatocellular carcinoma treatment response ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6920285>

Dec 18, 2019 · Having a basic knowledge of the existing **treatment** modalities and their expected appearance facilitates **assessment** of **treatment response**. **LI-RADS Treatment Response** is a practical way to assess and report **treatment response**. The four LR-TR categories are: LR-TR Nonevaluable, Nonviable, Equivocal, and Viable.

**Cited by:** 2

**Author:** Nicolas Voizard, Milena Cerny, Anis Ass...

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## Assessment of hepatocellular carcinoma treatment response ...

<https://insightsimaging.springeropen.com/articles/10.1186/s13244-019-0801-z> ▼

Dec 18, 2019 · Computed tomography (CT) and magnetic resonance imaging (MRI) play critical roles for assessing **treatment response** of **hepatocellular carcinoma** (HCC) after locoregional therapy. Interpretation is challenging because posttreatment imaging findings depend on the type of **treatment**, magnitude of **treatment response**, time interval after **treatment**, and other factors.

**Cited by:** 2

**Author:** Nicolas Voizard, Milena Cerny, Anis Ass...

**Publish Year:** 2019

## Hepatocellular Carcinoma—How to Determine Therapeutic Options

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7049673>

Jan 22, 2020 · **Treatment** options for **hepatocellular carcinoma** (HCC) are rapidly evolving. There are several HCC staging systems that currently exist to help stratify patients and guide initial **treatment**, with the Barcelona Clinic Liver **Cancer** (BCLC) classification 1 being one of the most used. This staging system stratifies patients with HCC from very early stage 0 (single tumor [ $<2$  ...

**Cited by:** 1

**Author:** Neil Mehta

**Publish Year:** 2020

## LI-RADS and transplantation for hepatocellular carcinoma ...





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## [Hepatocellular carcinoma: Consensus, controversies and ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4444026>

Computed tomography, magnetic resonance **imaging**, **liver imaging reporting and data system**: A diagnostic algorithm for HCC has been developed and validated ( Figure 2 ) ( 2 ). For any lesion >1 cm found on surveillance US, the diagnosis of HCC can be made if either the contrast-enhanced computed tomography (CT) scan or magnetic reonance **imaging** ...

Cited by: 23

Author: Kelly Warren Burak, Morris Sherman

Publish Year: 2015

## [Hepatocellular Carcinoma—How to Determine Therapeutic Options](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7049673>

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Author: Neil Mehta

Publish Year: 2020

## [Hepatocellular carcinoma: clinical frontiers and perspectives](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4337888>

**Hepatocellular carcinoma** (HCC) is a major health problem worldwide as more than 700 000 cases are diagnosed yearly. 1 Major risk factors include infection with hepatitis B or C viruses, and alcohol-related cirrhosis. Non-alcoholic steatohepatitis has recently emerged as a relevant risk factor.

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Author: Jordi Bruix, Gregory James Gores, Vincenz...

Publish Year: 2014

## [Imaging of Hepatocellular Carcinoma Response After 90Y ...](#)

<https://www.ajronline.org/doi/10.2214/AJR.17.17993>

The European Association for the Study of the **Liver** and the European Association for Research and **Treatment of Cancer** (EASL-EORTC) guidelines recommend initial **assessment of treatment response** by CT or MRI 4 weeks after initial therapy . Complete **response to treatment** on early **imaging** is shown by complete tumor necrosis without residual ...

Cited by: 5

Author: Sahar Semaan, Jasnit Makkar, Sara Lewis, ...

Publish Year: 2017

## [MRI of hepatocellular carcinoma: an update of current ...](#)





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## Hepatocellular Carcinoma—How to Determine Therapeutic Options

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7049673>

Jan 22, 2020 · **Treatment** options for **hepatocellular carcinoma** (HCC) are rapidly evolving. There are several HCC staging **systems** that currently exist to help stratify patients and guide initial **treatment**, with the Barcelona Clinic **Liver Cancer** (BCLC) classification 1 being one of the most used. This staging **system** stratifies patients with HCC from very early stage 0 (single tumor [ $<2$  cm] and compensated liver ...

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## IJMS | Free Full-Text | Hepatocellular Carcinoma—The ...

<https://www.mdpi.com/1422-0067/21/18/6757/htm> ▾

1 day ago · **Hepatocellular carcinoma** (HCC) is a leading cause of **cancer**-related morbidity and mortality worldwide. Most patients are diagnosed with advanced disease, limiting their options for **treatment**. While current treatments are adequate for lower staged disease, available systemic treatments are limited, with marginal benefit at best. Chimeric antigen receptor (CAR) T cell therapy, ...

## Hepatocellular carcinoma: clinical frontiers and perspectives

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**Hepatocellular carcinoma** (HCC) is a major health problem worldwide as more than 700 000 cases are diagnosed yearly. 1 Major risk factors include infection with hepatitis B or C viruses, and alcohol-related cirrhosis. Non-alcoholic steatohepatitis has recently emerged as a relevant risk factor.

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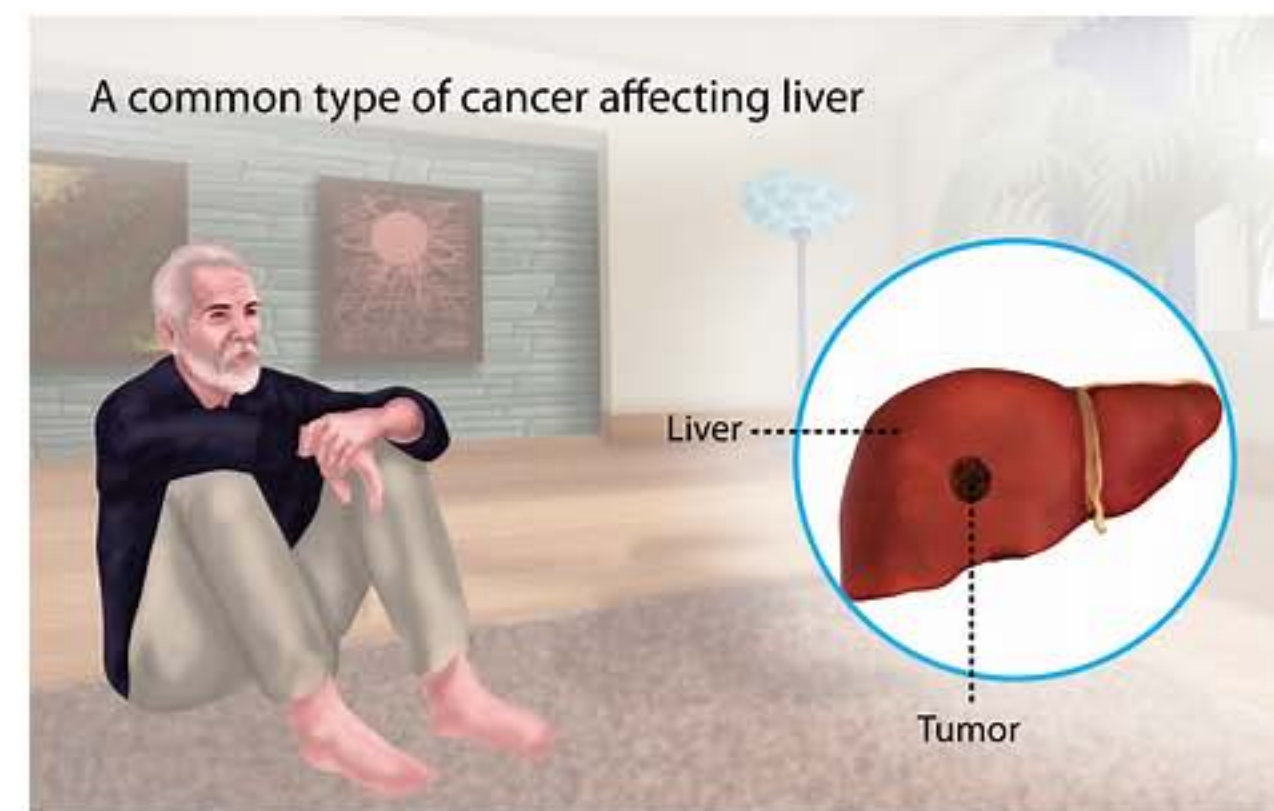
## Imaging of Hepatocellular Carcinoma Response After 90Y ...

<https://www.ajronline.org/doi/10.2214/AJR.17.17993>

The European Association for the Study of the **Liver** and the European Association for Research and **Treatment of Cancer** (EASL-EORTC) guidelines recommend initial **assessment** of **treatment response**

## Hepatocellular Carcinoma

Medical Condition



A common type of cancer affecting liver

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.