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Name of Journal: *World Journal of Hepatology*

Manuscript NO: 56899

Manuscript Type: REVIEW

Biomarkers for hepatocellular cancer

Gurjot Singh, Eric M Yoshida, Sahaj Rathi, Vladimir Marquez, Peter Kim, Siegfried R Erb, Baljinder S Salh

Abstract

Hepatocellular carcinoma (HCC) is the third leading cause of cancer-related deaths worldwide. If diagnosed early, curative treatment options such as surgical resection, loco-regional therapies, and liver transplantation are available to patients, increasing



Biomarkers for Hepatocellular Carcinoma: What works?



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Biomarkers for Hepatocellular Carcinoma

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3357951>

May 10, 2012 · The first serologic assay for detection and clinical followup of patients with hepatocellular carcinoma was **alpha-fetoprotein** (AFP) which has been the **standard tumor biomarker** for HCC for many years. It is a glycoprotein produced by the fetal liver and yolk sac during pregnancy.

Cited by: 111

Author: Tara Behne, M. Sitki Copur

Publish Year: 2012

Biomarkers for hepatocellular carcinoma: diagnostic and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4403743>

Apr 13, 2015 · In HCC, **TP53**(**tumor protein p53**) and CTNNB1(b-catenin) are the two most-frequently mutated genes. The **p53 protein** is a crucial regulator of the cell cycle and functions as a tumor suppressor, preventing cancer.

Cited by: 16

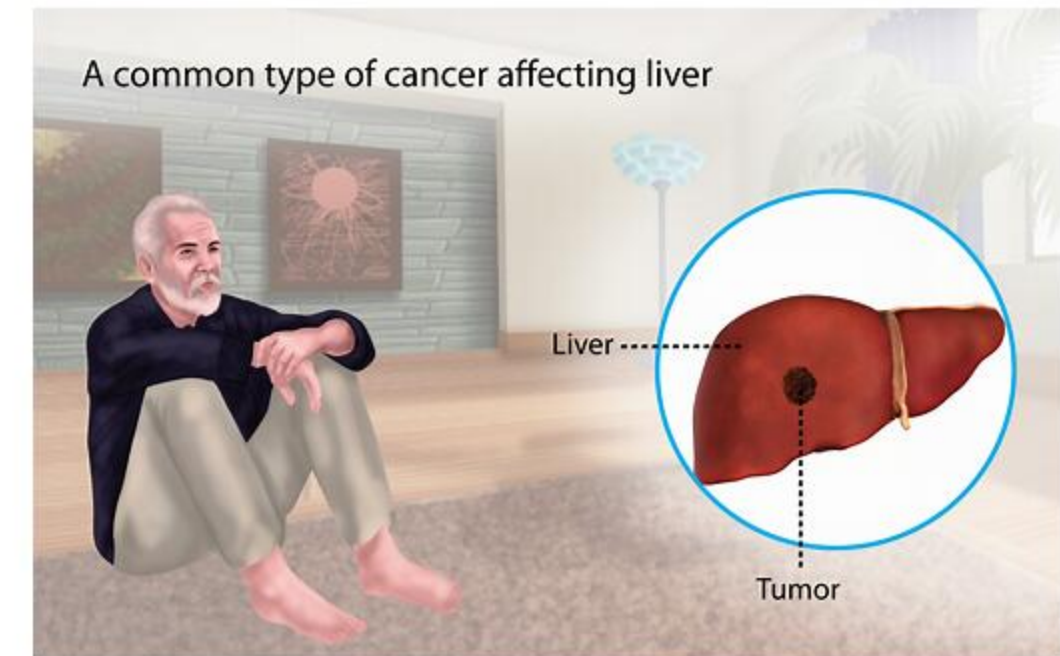
Author: Gustavo Ferrín, Patricia Aguilar-Melero, ...

Publish Year: 2015

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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



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Biomarkers for hepatocellular cancer



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[Biomarkers for Hepatocellular Carcinoma](https://www.hindawi.com/journals/ijh/2012/859076)

<https://www.hindawi.com/journals/ijh/2012/859076> ▼

Hepatocellular carcinoma (HCC) is one such cancer that can benefit from **tumor biomarkers'** diagnostic, therapeutic, and prognostic capabilities. **HCC** is the fifth most common malignant tumor and the third leading cause of **cancer-related** deaths.

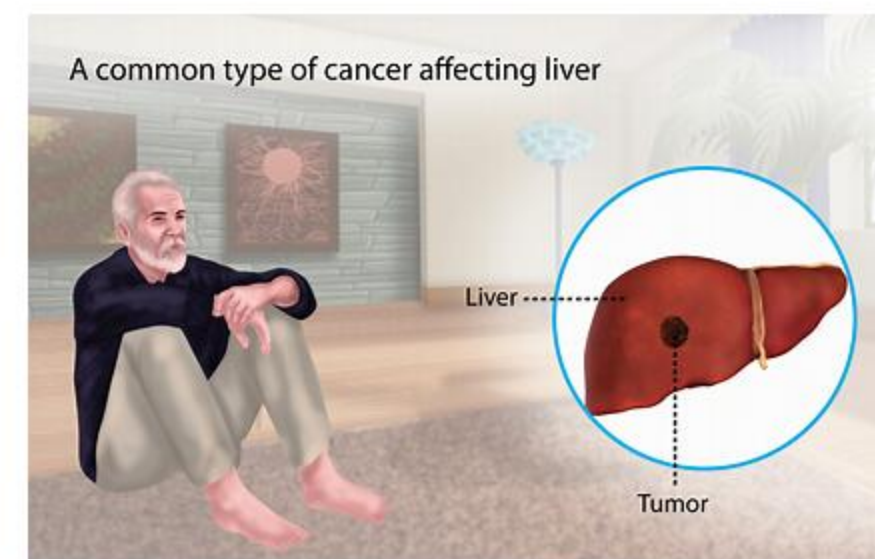
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Hepatocellular Carcinoma

Medical Condition



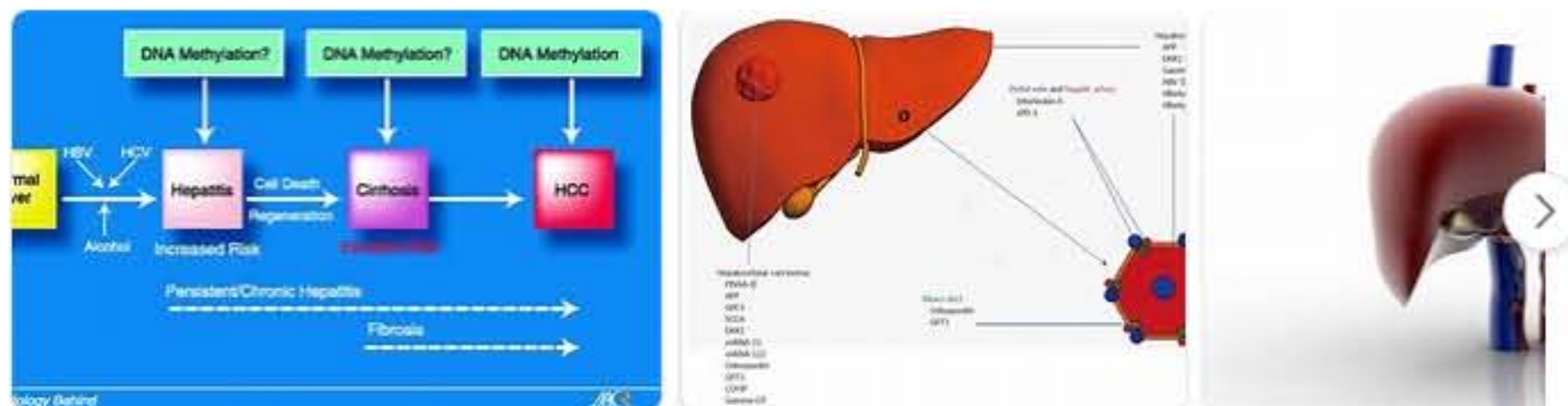
The most common form of liver cancer often seen in people with chronic liver diseases like cirrhosis.



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Images of biomarkers for Hepatocellular cancer

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Biomarkers for Hepatocellular Carcinoma

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Biomarkers for hepatocellular carcinoma: diagnostic and ...

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Apr 13, 2015 - Introduction. **Hepatocellular carcinoma** (HCC) represents more than 90% of primary liver **cancer**, which is the fifth most prevalent **cancer** in the world and the third leading cause of **cancer**-related mortality.¹ Unfortunately, HCC development is asymptomatic at early stages of the disease when current curative therapies are available.^{2,3} Tests for HCC screening include serological and imaging ...

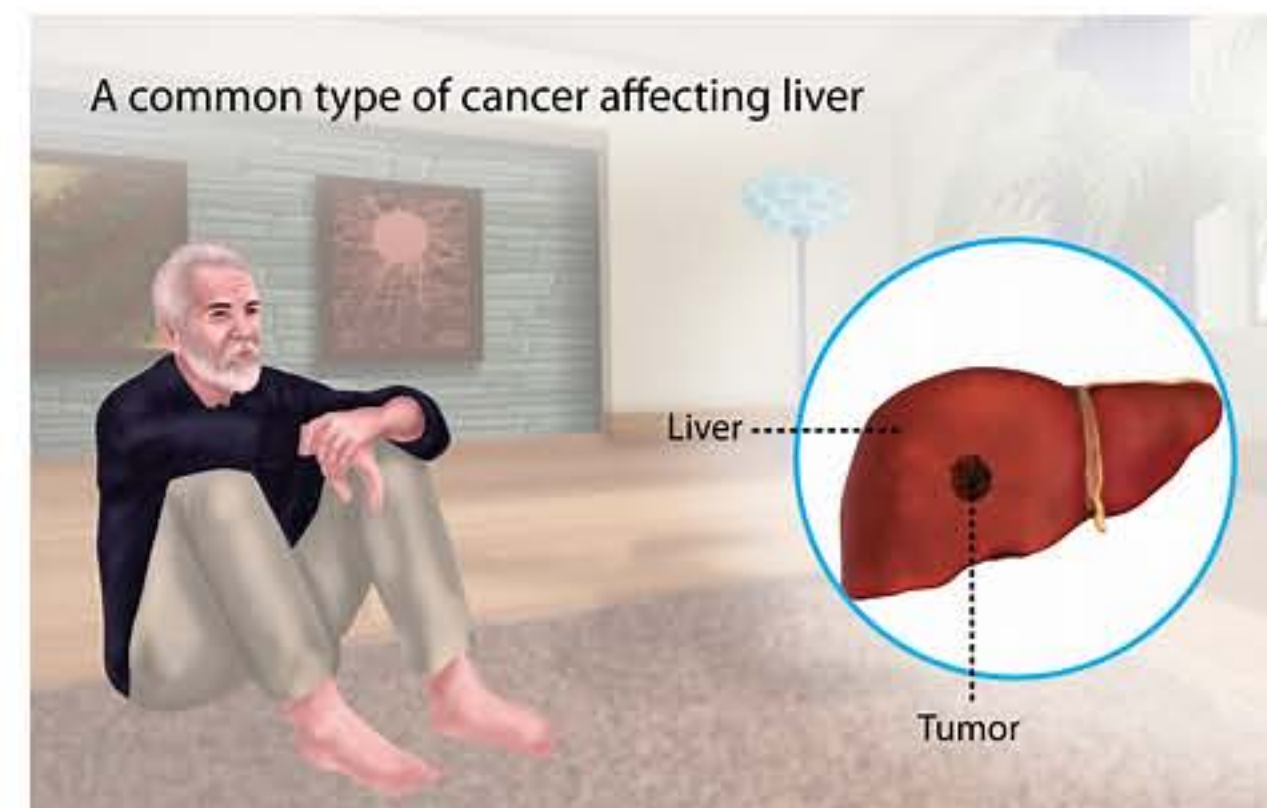
Cited by: 19

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Publish Year: 2015

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: