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Cellular based treatment modalities for unresectable hepatocellular carcinoma

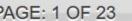
Cellular Treatments for Unresectable HCC

Abstract

Hepatocellular carcinoma (HCC) is the most common primary malignancy of the liver and is unfortunately associated with an overall poor prognosis and high mortality. Early and intermediate stages of HCC allow for treatment with surgical resection, ablation and even liver transplantation, however disease progression warrants conventional systemic therapy. For years treatment options were limited to molecular-targeting medications, of which sorafenib remains the standard of care. The recent development and success of immune checkpoint inhibitors has proven to be a breakthrough in the treatment of HCC, but there is an urgent need for the development

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CAR-T cell therapy, in particular, has been a very successful novel method of treating CD19-positive hematological malignancies, and its application has recently been considered in the treatment of solid tumors, including HCC. 33 Currently, there are no clinical trials investigating **CAR-T cell** therapy for HCC, as there have been many concerns about the drug causing cytokine-release syndrome, which affects ...

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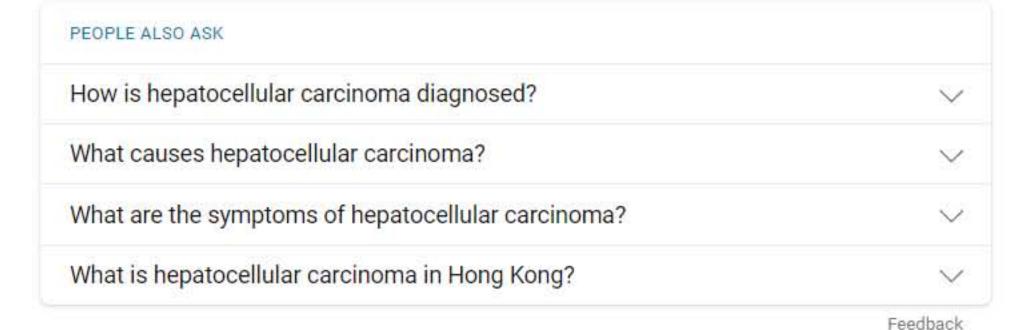
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Although, systemic and/or locoregional chemotherapy and chemo-embolization are among the established treatment options, the results of these modalities are still far from being satisfactory. Systemic interferon administration is also used for the treatment of this disease however it ...

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Impact of treatment modalities on patients with recurrent ...

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Hepatocellular Carcinoma

Medical Condition

Image for 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: