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Recent Advances in Immunotherapy for Hepatocellular Carcinoma

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Hepatocellular carcinoma (HCC) is one of the leading causes of cancer-related death since most patients are diagnosed at advanced stage and the current systemic treatment options using molecular-targeted drugs remain unsatisfactory. However, the recent success of cancer immunotherapies has revolutionized the landscape of cancer therapy. Since HCC is characterized by metastatic multicentric ...

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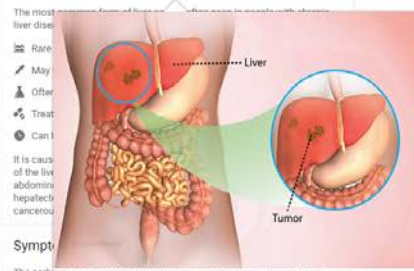
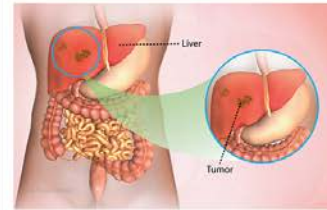
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Hepatocellular Carcinoma

Medical Condition



Symptoms

The early stages of liver disease often cause no symptoms. In 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
- Target drug delivery: Drugs which are target oriented help in slowing down the progression of the disease.
 - Sorafenib

Medical procedures: Hepatectomy Liver transplantation Ablation

Therapies: Radiation therapy

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Thermal ablation and immunotherapy for hepatocellular carcinoma: Recent advances and future directions

Bo XW *et al.* Combined TA and immunotherapy for HCC

Xiao-Wan Bo, Li-Ping Sun, Song-Yuan Yu, Hui-Xiong Xu

Abstract

Hepatocellular carcinoma (HCC) is one of most common cancers that cause death in the world. Thermal ablation (TA) is an important alternative treatment method for HCC patients who are not appropriate for surgery or liver transplantation. Particularly for small and early HCCs, radiofrequency ablation (RFA) can be considered as the first-line curative treatment. However, local and distant recurrence rates are still high even though the TA equipment and technology develop rapidly. Immunotherapy is a novel systemic treatment method to enhance the anti-tumor immune response of HCC patients, which has the potential to reduce the tumor recurrence and metastasis. The combination of local TA and systemic immunotherapy for HCCs may be an ideal treatment for enhancing the efficacy of RFA and controlling the recurrence. Herein we summarize the latest progress in TA, immunotherapy and their combination for the treatment of patients with HCC and discuss the limitations and future research directions in the combined therapy.

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