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**Immunotherapy with dendritic cells and cytokine-induced killer cells for hepatocellular carcinoma:
A meta-analysis**

Cao J *et al.* Immunotherapy for hepatocellular carcinoma

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Abstract

BACKGROUND

Hepatocellular carcinoma (HCC) has been revealed as the second common cause of cancer-related death worldwide. The introduction of cell-based immunotherapy, including dendritic cells (DCs), cytokine-induced killer cells (CIKs), has brought HCC patients with effective benefit. However, the efficacy and necessity of cellular immunotherapy after different interventional therapy remain to be further explored.

AIM

To investigate the efficacy of cellular immunotherapy, involving DCs and CIK, combined with different conventional treatment of HCC.

METHODS

We performed a literature search on PubMed and Web of Science up to February 15, 2019. Long-term efficacy [overall survival (OS) and recurrence] and short-term adverse effects were investigated to assess the effectiveness of immunotherapy with DCs and/or CIKs. Review Manager 5.3 was used to perform the analysis.

RESULTS

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