

Minimally Invasive Locoregional Treatment of Intrahepatic Cholangiocellular Carcinoma

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Abstract

Surgical resection is considered first-line treatment for intrahepatic cholangiocellular carcinoma (ICC). In case of a unresectable tumor, chemotherapy is part of standardized treatment guidelines, despite dismal outcome. Technical advances in locoregional therapies such as radiofrequency ablation, microwave ablation, irreversible electroporation, transarterial chemoembolization and selective internal radiation therapy bear the promise for enhancing local tumor control, while reducing treatment associated morbidity and improving survival as well as quality of life. This review focuses on the latest improvements of minimally invasive locoregional therapies and their implementation in modern multimodality treatment protocols for ICC.

Key words: radiofrequency ablation, cholangiocarcinoma, hepatic liver tumor treatment, thermal ablation