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Systematic Review: Preventive and Therapeutic Applications of Metformin in Liver Disease

Aparna Bhat, Giada Sebastiani, Mamatha Bhat

Abstract

Metformin, a biguanide derivative, is the most commonly prescribed medication in the treatment of type 2 diabetes mellitus. More recently, the use of metformin has shown potential as a preventive and therapeutic agent for a broad spectrum of conditions, including liver disease and hepatic malignancies. In this systematic review, we critically analyze the literature behind the potential use of metformin across the spectrum of liver disease and malignancies. The PubMed and Ovid MEDLINE databases were searched from 2000 to March 2015, using a combination of relevant text words and MeSH terms: *metformin AND mTOR, hepatitis B, hepatitis C, non-alcoholic fatty liver disease, hepatocellular carcinoma or cholangiocarcinoma*. The search results were evaluated for pertinence to the issue of

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