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Alcoholic hepatitis: The pivotal role of Kupffer cells

Duminda B Suraweera, Ashley N Weeratunga, Robert W Hu, Stephen J Pandol, Richard Hu

Abstract

Kupffer cells play a central role in the pathogenesis of alcoholic hepatitis (AH). It is believed that alcohol increases the gut permeability that results in raised levels of serum endotoxins containing lipopolysaccharides (LPS). LPS binds to LPS-binding proteins (LPB) and presents it to a membrane glycoprotein called CD14, which then activates Kupffer cells via a receptor called Toll-like receptor 4 (TLR-4). This endotoxin mediated activation of Kupffer cells plays an important role in the inflammatory process resulting in alcoholic hepatitis. There is no effective treatment for AH, although notable progress has been made over the last decade in understanding the underlying mechanism of alcoholic hepatitis. We specifically review the current research on the role of Kupffer cells in the pathogenesis of AH and the treatment strategies. We suggest that the imbalance between the pro-inflammatory and the anti-inflammatory processes as well as



Alcoholic Hepatitis:The Pivotal Role of Kupffer Cells



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