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Intestinal barrier dysfunction in cirrhosis: Current concepts in pathophysiology and clinical implications

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Abstract

The intestinal lumen is a host place for a wide range of microbiota and sets a unique interplay between local immune system, inflammatory cells and intestinal epithelium, forming a physical barrier against microbial invaders and toxins. Bacterial translocation (BT) is the migration of viable or nonviable microorganisms or their pathogen-associated molecular patterns (PAMPs), such as lipopolysaccharide (LPS), from the gut lumen to the mesenteric lymph nodes (MLNs), systemic circulation and other normally sterile extraintestinal sites. A series of studies have shown that translocation of bacteria and their products across the intestinal barrier is a commonplace in patients with liver disease. The deterioration of intestinal barrier integrity and the consulting increased intestinal permeability in cirrhotic patients play a pivotal pathophysiological role in the development of severe complications as high rate of infections, spontaneous bacterial

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