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**KLINIK LABORATOR  
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YECHIMLAR**  
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## **LIPID PEROXIDATION AS THE MAIN PATHOGENETIC LINK IN THE DEVELOPMENT OF LIVER FAILURE**

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Lipids are classically divided into two groups: apolar and polar. Triglycerides (apolar) are stored in various cells, but especially in adipose tissue, they are usually the main form of energy storage in mammals. Polar lipids are structural components of cell membranes, where they are involved in the formation of a cell permeability barrier and subcellular organelles in the form of a lipid bilayer. The main lipid type that defines this bilayer in almost all membranes is phospholipid-based glycerol [1, p. 390]. The importance of the membrane on the physical (phase) state of lipids is evidenced by the fact that lipids can control the physiological state of the membrane organelle by changing its biophysical aspects, such as polarity and permeability. Lipids also play a key role in biology as signaling molecules.

The main enzymes that generate mediators of lipid signaling are lipoxygenase, which mediates hydroperoxyeicosatetraenoic acids (HPETE), lipoxins, leukotrienes, or hepoxylin biosynthesis after oxidation of arachidonic acid (AA), cyclooxygenase, which produces prostaglandins and cytochrome P-450 (CYP), which forms epoxyeicosatriene acids, leukotoxins, thromboxane or prostacyclin. Lipid signaling can occur through the activation of various receptors, including G-protein coupled and nuclear receptors. Members of several different lipid categories have been identified as potent intracellular signaling molecules. Examples of signal lipids include two derived from phosphatidylinositol, phosphates, diacylglycerol (DAG) and inositol phosphate . DAG is a physiological activator of protein kinase C and transcription factor of nuclear factor-kB (NF-B), which promote cell survival and proliferation. Diacylglycerol also interacts



