

Increased Levels of Lipid Oxidation Products in Rheumatically Destroyed Bones of Patients Suffering from Rheumatoid Arthritis

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The new indicator for lipid peroxidation (LPO) processes – 9-hydroxy-10,12-octadecadienoic acid (9-HODE) – was used to investigate, whether LPO processes are increased in destroyed bone material of patients suffering from rheumatoid arthritis (RA) in comparison to surrounded non destroyed bone material. The HODE content in destroyed bones exceeded that of non destroyed ones of the same patient for a factor of about 3.

In addition similar increases in leukotoxines and epoxy oleic acid in the destroyed bone material were observed, indicating an increase of LPO processes in affected bone parts of patients.

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