Hydroxy Fatty Acids, Epoxy Fatty Acids, Rheumatoid Arthritis, Bones

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 destructed bone material of patients suffering from rheumatoid arthritis (RA) in comparison to surrounded non destructed bone material. The HODE content in destructed bones exceeded that of non destructed ones of the same patient for a factor of about 3.

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

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