

**Inflammatory pathways in jawbone by hyperactivated RANTES/CCL5 as a general health threat - Ozone assisted therapy of silent inflammation**

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We examined 128 samples of fatty degenerative and osteolytic jawbone (FDOJ) for 7 cytokines by multiplex analysis: All samples showed RANTES/CCL5 (R/C) as the only extremely overexpressed cytokine with a mean 30 fold overexpression compared to healthy controls. As R/C is discussed in literature as a possible contribution to inflammatory diseases and might have oncogenic effects, we hypothesize that FDOJ in areas of improper and incomplete wound healing in jawbone might act as hyperactivated signaling pathways. Surgical clearing of FDOJ might diminish R/C signaling pathways and contribute to resolving chronic immunological diseases. The connection to Ozone treatment is to promote R/C free wound healing in jawbone after dental surgery and to prevent the wound going from acute infection back to „silent inflammation“ and R/C overexpression. Ozone assisted surgery activates healthy radical scavengers and antioxidants for the fight against chronic inflammation to be continued in jawbone.