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Abstract

“Chronic Osteonecrosis of Jaw Bone (NICO) – Unknown Trigger for Systemic Disease?”

1. **Question:** The author observes astounding improvements of systemic complaints after cleaning pain free edentulous areas of the jaw. These areas are defined by fatty-degenerative osteonecrosis of cancellous bone (NICO). Where is the connection between local surgery of the jaw bone and systemic results?
2. **Methods of research:** In order to clarify systemic interrelations of NICO, samples of cancellous jaw bone have been extracted from 17 patients. The specimens were analyzed by bead-based multiplex technology (Luminex) and tested for 27 immune messengers.
3. **Results:** All 17 jaw bone specimens showed highest concentration for RANTES (CCL 5). The specific concentration of all 17 samples in RANTES, despite the high number of 27 tested mediators, is a striking figure. The present research is the first to analyze immune messengers within degenerated jaw bone tissue (NICO).
4. **Clinical aspects of the immunological results:** The author demonstrates an immunological based explanatory model of systemic phenomena with case histories. Conclusion: Removal of NICO lesions may result in disappearance of various inflammatory symptoms.
5. **Systemic conclusion of NICO in jaw bone:** Scientific research shows proinflammatory RANTES is found in development of MS, rheumatic arthritis and Astrozyotmas. RANTES is additionally discussed as messenger in breast cancer and its metastasis. Thus NICO and the implicated immune messengers give a possible complementary and integrative aspect of systemic diseases. The author approaches to a mediator-based hypothesis of systemic interference between NICO of the jaw bone and systemic diseases.

Biography

Born 1949, married, 2 children

Studies of dental medicine in Munich, Germany; since 1980 in own clinic in Munich with main emphasis on Complementary and Holistic Dentistry.

Member of the executive board of the DAH (German Association for Research on Disturbance Fields and Regulation Disturbances) and since 1982 chairman of science of GZM (International Society for Holistic Dentistry)

Besides extensive lecture and seminar activity, Dr. Lechner published numerous articles and hitherto eight books in German about Holistic Dentistry and Integrative Medicine.

Lectures at University of Bern, Switzerland, University of Graz, Austria, Capital University Washington, DC, USA and Dental University Beijing, China.