

Reliable osteolysis detection in the jawbone

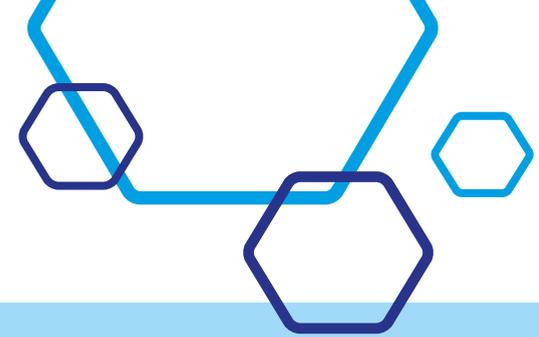
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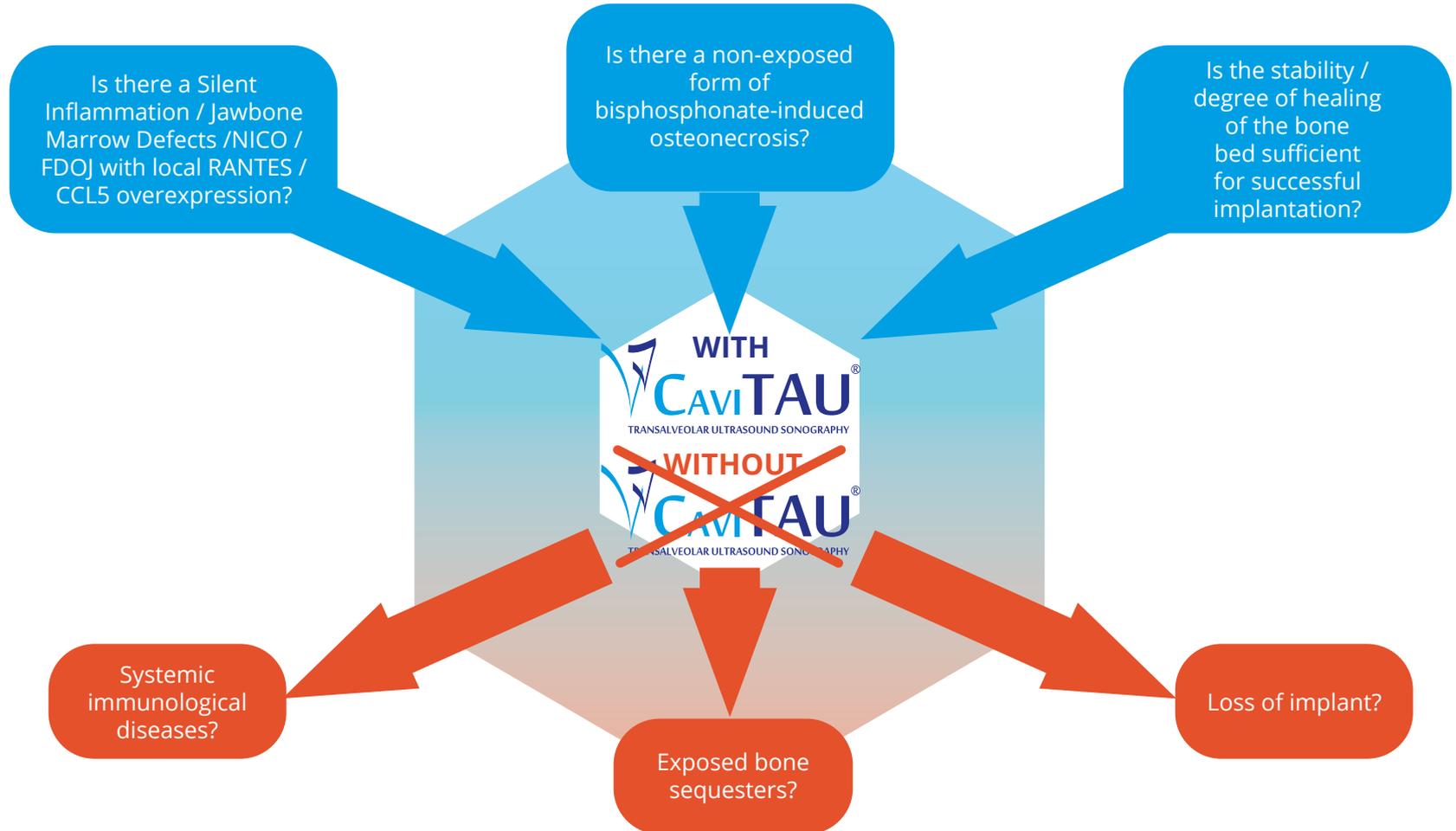
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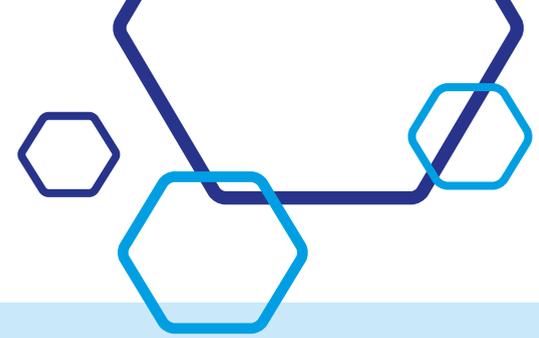


What is CaviTAU®?

1. CaviTAU® determines the density of the jawbone using the latest ultrasound technology and without exposure to radiation.
2. CaviTAU® is a physically completely new development in imaging information acquisition in dentistry.
3. CaviTAU® is a scientifically validated process that is proven by extensive data from practice and the laboratory.
4. CaviTAU® is an indispensable tool for the detection of chronic inflammation in all diseases of the immune system.
5. CaviTAU® focuses on the advantages for patients and healthcare professionals: Radiation-free and environmentally friendly, inexpensive and easy to use. It offers completely new aspects of previously unrecognized pathologies.
6. CaviTAU® works according to the ALARA principle (As Low As Reasonably Achievable). When dealing with ionizing radiation, it requires as low a radiation exposure as appears feasible.
7. CaviTAU® is already in use internationally and is patented worldwide.

CaviTAU[®] provides answers to 3 medically necessary questions:





How it works

Introduction

The CaviTAU® technology is based on sound waves. The waves penetrate dry and solid bone tissue faster than water, liquid fat in fat cells or softened bone tissue. Therefore, fatty degenerative, osteonecrotic and osteolytic osteopathies (FDOJ) can be represented with CaviTAU®.

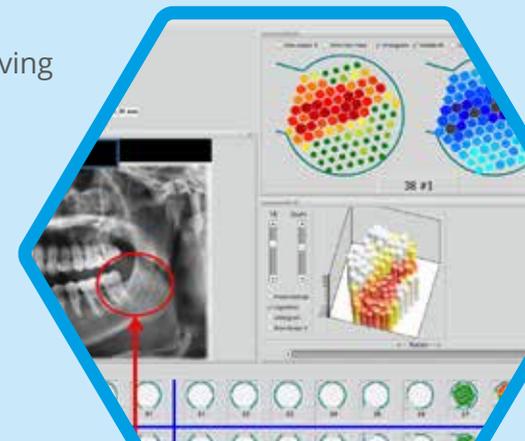
It is a safe and effective imaging method for the clinical assessment of alveolar, cancellous bone pathologies associated with low bone density and ischemia.

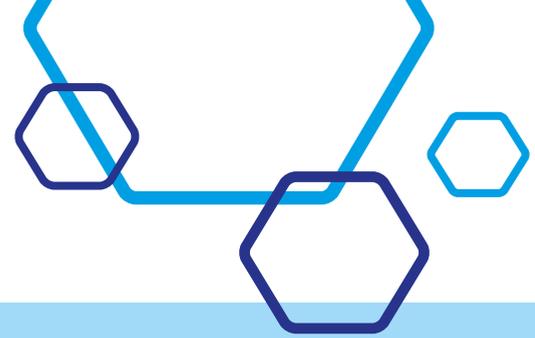
Fast detection & localization of medullary cavities

CaviTAU® detects and localizes medullary cavities (= increased cavities up to the fatty degenerative dissolution of the trabecular structures) in the jawbone.

An ultrasound pulse is passed through the jawbone. The impulse is from the receiving unit recorded and evaluated. Show attenuations of the impulse changes in the jawbone.

The results are displayed on a color monitor, depending on the degree of attenuation, in different colors.

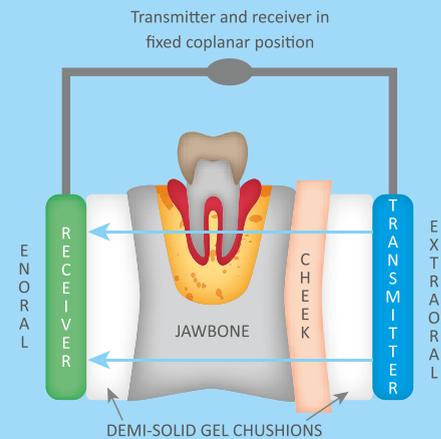
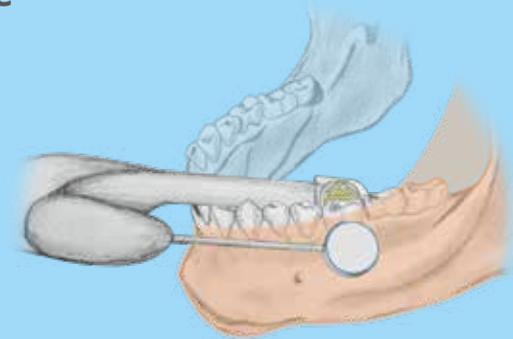




Device and components



Use



Areas of application in the dental market

Qualitative and operative advantages for implantologists

1. Supplement for your digital workflow to qualify the jawbone bed
2. Examination of the jawbone with ultrasound for the duration of the implant - validated by scientific studies at the University Dental Clinic Mainz

3. Securing your implant success and the health of your patients



Sustainable and medically valuable for oral surgeons

1. Identification of osteonecrosis in trigeminal pain
2. Uncovering cancellous „traps“ in the jawbone
3. Confirmed scientific validation in PubMed magazine



CaviTAU® for integrative dentistry

1. Localization of chronic osteolysis in systemic immunological diseases
2. Development of the FDOJ treatment field
3. Radiation-free support for prediagnostics and post-operative control



Why do I need CaviTAU® in my practice?

CaviTAU® helps you to close daily application gaps:

1. The diagnostic gap:

In the case of chronic inflammatory, degenerative bone changes, as these cannot be made visible with standard radiological diagnostics.

2. The medical-preventive gap:

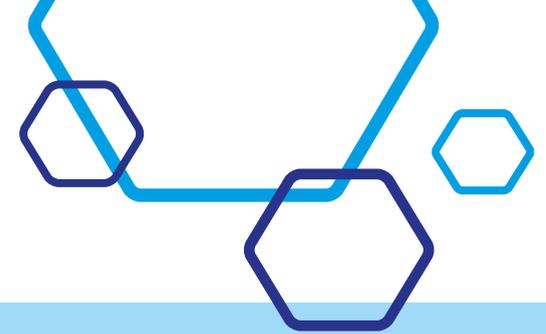
Radiation protection is guaranteed and unnecessary radiation exposure is avoided. The analysis of bone density with the TAU ultrasonograph CaviTAU® is a completely harmless, environmentally friendly application and can therefore also be used several times for preventive diagnostics.

3. The systemic-integrative gap:

CaviTAU® also offers diagnostic information on bone density and quality in the jaw area. "Silent Inflammation" in immunological systemic diseases (multiple sclerosis, rheumatism, cancer, etc.) can be discovered.

4. The forensic gap:

The evaluation mimic consists of colored fields, which also make the pathologically changed bone areas in the jaw immediately plausible for the patient.



The knowledge behind CaviTAU®

Everything you as a doctor, dentist or holistic therapist would like to know about local inflammation in the jaw and systemic diseases.

“In these four volumes you will find everything from cavity-forming Osteolyses of the jawbone up to the pathomechanisms of a maxillo-mandibular osteoimmunology.”

Author Dr. Dr. (PhD-UCN) Johann Lechner



More information and orders at <https://cavitau.de/en/company/literature/>

CaviTAU® and Maxillo-Mandibular Osteoimmunology

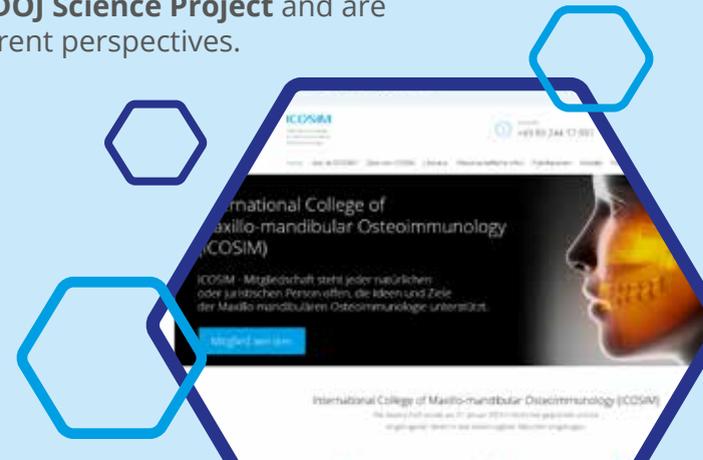
Maxillo-Mandibular Osteoimmunology is an interdisciplinary research area that combines the two areas of osteology of the jawbone and immunology.

With CaviTAU® you are not alone in the practice:

The **International College of Maxillo-Mandibular Osteoimmunology (ICOSIM)** is open to you to exchange experiences with other users.

The entire scientific literature of our research group on RANTES / CCL5 is available to you at **www.icosim.de** with numerous PubMed publications.

As a fully authorized member of ICOSIM e.V., you take part in the **FDOJ Science Project** and are currently exchanging ideas at the medical specialist level from different perspectives.



The science behind CaviTAU®

Ultrasound in dentistry with CaviTAU® is **scientifically validated**.
Here are two QR codes for articles that have already been published:



Ultrasound Sonography to Detect Focal Osteoporotic Jawbone Marrow Defects: Clinical Comparative Study with Corresponding Hounsfield Units and RANTES/CCL5 Expression.

Published: 2nd June 2020 (12 pages 205-216)
Lechner J, Zimmermann B, Schmidt M, von Baehr V



Osteonecrosis of the Jaw Beyond Bisphosphonates: Are There Any Unknown Local Risk Factors?

Published 19th January 2021 (13 pages 21-37)
Lechner J, von Baehr V, Zimmermann B

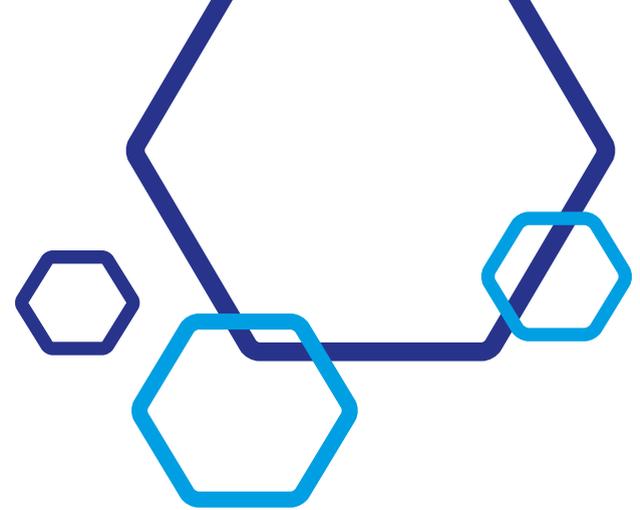




CaviTAU® in practice

Look into the body with waves - the CaviTAU® video on YouTube:





NOTE:

The clinical safety and performance of CaviTAU® has been proven with clinical tests. CaviTAU® does not provide a diagnosis, but rather identifies differences in the density of the jawbone. CaviTAU® meets the requirements of the Medical Device Directive 93/42 / EEC and MEDDEV 2.7 / 1 Rev. 4.

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