



The CALLUS® Implantation System is the result of an international collaboration in 2018. It combines the professional experience, tradition and knowledge of Denti System Ltd founded in 1983, Europe's third oldest implantation company, with the practical, innovative expertise of international specialists - oral surgeons, implantologists and dental technicians.

The philosophy of the CALLUS® Implantation System is to provide the best value for money, easy to use and affordable products for both patients and users.

A high priority for the CALLUS® Implantation System is the use of state-of-the-art digital technology, making the system increasingly simple and flexible for dentists and dental technicians to use.

CALLUS® products are CE marked and meet the highest regulatory requirements.



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### 1. CONSULTATION AND PLANNING

During **preliminary examinations** the dentist examines the patient to decide if the implantation can be done. This requires on the one hand dental examination (to determine the affected teeth, the suitability of the jawbone for placing the implant, X-rays, etc.) and general medical tests (laboratory tests, etc.). Then the planning of the implant-borne restoration takes place when the doctor discusses all the questions with the patient (how many implants are necessary, whether the patient wants to wear a temporary prosthesis during the osseointegration period, and expected costs, setting appointments, etc.).



### 2. PLACING OF THE DENTAL IMPLANTS

Local anesthesia is adequate for the **insertion of the implants**. In doing so, the attending surgeon prepares the affected part of the jaw and then inserts the implant. The healing process can be performed either closed, underneath the mucosa, or open depending on the very case.



### 3. THE HEALING PHASE

The **healing period** takes approx. 3 months time. During this time, the unique property of the implants allows the bone cells to attach directly to the micropores on the surface of the implant - the process known as osseointegration. This creates a stable locking of the implants into the jaw bone through which implants are able to withstand lasting chewing pressure without damage. In certain controlled circumstances implants can be loaded immediately before osseointegration when primary stability is given.



### 4. PREPARING DENTAL REPLACEMENT

The healing phase is followed by the final **restorative step**, the manufacturing and connecting the prosthetic parts to the implants. First the implant needs to be surgically exposed and the surgeon connects some form of post which penetrates through the gum into the mouth – this is the abutment. Abutments serve as support and anchor for the final denture, which will be prepared within a short period of time by the dental technician using mostly traditional methods.



### 5. ORAL HYGIENE AND DENTAL CHECK-UPS

Proper care of your implants and regular dental check-ups are important to their continued and successful function. After finishing the implanting procedure the patient is advised to attend **annually for a follow-up**. The dentist examines if the surrounding gums and bone are maintained and healthy and if necessary, performs the appropriate corrections (eg. removing plaque from denture). Dental implant patients shouldn't ignore any minor issues regarding the new denture and inform the dentist about it as soon as possible.



## PATIENT GUIDE



...for a lifetime!

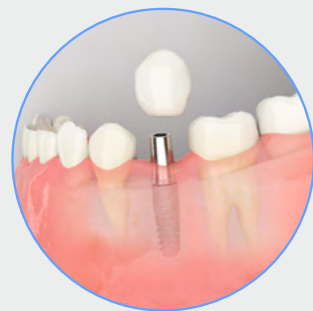
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## WHAT IS A DENTAL IMPLANT?

A dental implant is an artificial root made of a biocompatible material which is inserted in place of the missing tooth as support for the denture. The material of Callus® Implants is pure unalloyed titanium manufactured for medical purposes and as being biocompatible, is accepted by the living organism.

Callus® dental implants are the result of implantological research and experience of nearly 30 years and manufactured under consideration of the highest European quality standards. If inserted properly and applying dentures adequately our implants can last a lifetime.



## ARE DENTAL IMPLANTS FOR ME?

Dental implants are recommended for all patients who want dental implants to replace missing teeth and are not excluded from this dental intervention due to predetermined reasons.

It is only recommended to proceed with dental implant treatment if the patient is willing to maintain a proper oral hygiene or if there are no areas of untreated disease of teeth, gums or bone. Risk factors which affect a successful implantation are considered excessive alcohol use, drug addiction and strong smoking. Certain medical conditions can also reduce implantation success, such as untreated diabetes, severe heart- and cardiovascular diseases. Further restrictions apply for patients under 18 years of age, as their jawbone is not fully developed and the restorations can interfere with further bone development.

When in doubt, ask your dentist or family practitioner.

## REPLACEMENT OPTION FOR SINGLE TOOTH GAP

If you have one tooth missing, you can have an implant to support a new single crown. The replacement tooth is attached to an implant, with a connecting abutment. The implant fuses with the jaw, which results in a secure bond between the implant and surrounding bone, providing a confident feeling and a nice aesthetic effect. Unlike traditional bridge replacements implant replacement leaves surrounding teeth intact.

FOR SINGLE TOOTH GAP



## REPLACEMENT OPTION FOR MULTIPLE TEETH GAPS

For those with multiple missing teeth, an optimal treatment option can be an implant-supported restoration with a fixed bridge or crowns. The implant fuses with the jaw, which results in a secure bond between the implant and surrounding bone, providing a confident feeling and a nice aesthetic effect. Unlike traditional bridge replacements implant replacement leaves surrounding teeth intact.

FOR MULTIPLE TEETH GAPS



## REPLACEMENT OPTION FOR ALL TEETH MISSING ALL-ON-4 MULTIUNIT REPLACEMENT

All on 4 implants offer a convenient way to replace missing teeth without having to do a separate implant for each one. Instead, four-six implants per dental arch (lower or upper dental arch) are used to replace teeth in all parts of your mouth. Each implant is strategically placed to provide the best support and balance in your mouth to securely hold a fixed full-arch prosthesis. After loosening the screws by the dentist, the prosthesis can be removed from the implants, ensuring good access to the implants. The stability of such dentures is excellent, so they provide a perfect comfort to the patient.

- MINIMAL NUMBER OF IMPLANTS NECESSARY
- MAKES THE RESTORATION OF A COMPLETE DENTURE POSSIBLE
- NATURAL APPEARANCE, DURABLE AND PERMANENT DENTURE
- AFFORDABLE

FOR ALL TEETH MISSING



*Note: When all teeth are missing, planting 2-4 implants can also be a solution for anchoring a removable but still stable prosthesis. Such a removable prosthesis is easy to clean, yet it provides a comfortable, safe wearing.*

## EVERYONE DESERVES TO SMILE WITH CONFIDENCE

