

a perfect fit™

# SAFETY AND ESTHETICS WITH DENTAL IMPLANTS

A guide for patients

camlog





### **Dear reader,**

Implant restorations follow nature's example. You can have the functions of natural teeth completely restored – and thus maintain or restore your personal well-being and your natural appearance long-term.

The use of dental implants has been established scientifically for over 30 years and is a reliable method of treatment. CAMLOG is a leading manufacturer of dental implants and a competent partner of your dentist. With this patient guide, we would like to give you some important information about dental implants.

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# DENTAL IMPLANTS FOR MORE QUALITY OF LIFE



**Healthy and beautiful teeth  
express vitality, sympathy  
and health.**

There are many reasons for loss of teeth: e. g. sports injuries, illnesses, or caries and periodontitis. Tooth loss is a painful experience. But there is also good news: your dentist has available a number of options for filling tooth gaps with an esthetically pleasing outcome.

Teeth fulfill a number of functions. Primarily they are responsible for breaking down food and contributing to a clear speech. Teeth also serve to retain the jaw bone and are a major element in providing a harmonious facial expression. Healthy and beautiful teeth stand for quality of life and have a positive effect on our self-esteem and appearance.

Many patients suffering from loss of teeth decide to have dental implants. Your dentist will explain which treatment options are possible in your case and recommend the best solution for your case under consideration of your wishes. If your dentist does not perform the implantation himself, he will consult a specialized dentist, oral surgeon or orthodontic surgeon and plan the course of treatment from diagnostics through to the placement of your new teeth in detail.





**Functional, esthetic teeth  
add greatly to improved  
quality of life.**





**Implants can be inserted at  
practically every age.**



# DENTAL IMPLANTS

## THE SENSIBLE SOLUTION

Dental implants replace the natural root of the tooth – in form and function. The jaw bone integrates the dental implant so that a new, custom-made crown can be mounted.

In addition, the dental implant "trains" the jaw bone. During chewing, the growth stimuli are transmitted to the bone via the dental implants – very much the same as with a natural tooth. This is a decisive factor for preserving the jaw bone.

Implants are placed by specialized dentists, oral surgeons or orthodontic surgeons. Most implants are manufactured from pure titanium and have a special surface. Implant-borne prosthetics offer patients of virtually all ages numerous options for restoring full chewing function, speech and esthetics.

**Bone substance is only preserved when it is "trained" constantly.**



# DENTAL IMPLANTS OFFER NUMEROUS OPTIONS

## Single-tooth replacement

In single-tooth replacements, one of the advantages of dental implants is that the neighboring teeth are not affected. With implant restorations, they are neither damaged nor ground down as is the case with conventional bridges. The valuable natural tooth substance of the neighboring teeth is preserved. See figure 1.

## Large tooth gap

Fixed dental prostheses can be installed with the aid of dental implants when restoring larger tooth gaps or when all posterior teeth are missing. Without implants, dental technicians can only fabricate removable prostheses. See figure 2.

## Edentulous jaws

Implants can be used to stabilize removable prostheses in the mouth in case of edentulous jaws. This improves wearing comfort as the implant-supported prosthesis is fixed securely. See figure 3.



## Prosthetics need not be

Conventional partial and full prosthetics are often regarded as being foreign objects. In many cases, they lead to pressure sores and limit the perception of taste, touch and temperature. Add to this the feeling of insecurity during social contacts. Necessary and recurrent adaptation of the prosthetics are the consequence.



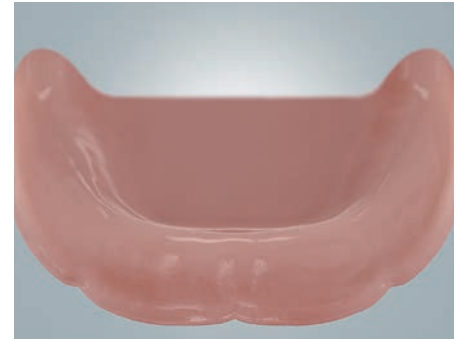
## BEFORE



**Fig. 1:** Single-tooth gap



**Fig. 2:** Larger tooth gap/saddle area



**Fig. 3:** Edentulous mandible

## AFTER



**Fig. 1:** Implant restoration to replace a central incisor



**Fig. 2:** Bridge on two implants to close the saddle area with three missing teeth



**Fig. 3:** Fixation on double crowns

# IMPLANT TREATMENT – THE PROCEDURE



Every implant treatment consists of five steps – regardless of whether only a single tooth needs to be replaced or whether extensive restoration is required.

The length of treatment depends on the individual situation, the pretreatment necessary and your personal wishes. Implant restoration usually takes several months, from diagnosis to insertion of the prosthetics.

## OVERVIEW OF THE FIVE STEPS

**1**

DIAGNOSIS

**2**

PRETREATMENT

**3**

IMPLANTATION

**4**

INSERTION

**5**

CARE

# 1

## DIAGNOSIS



To decide on suitable treatment, your dentist will make an assessment of your personal initial situation. To this purpose, X-rays will be taken and models made, maybe special functional tests will be carried out, too.

In some cases, X-rays via digital volume tomography (DVT) or computer tomography (CT) may be useful. These back up dental diagnostics and facilitate individual case planning.

As part of these examinations, the alternative restoration options are analyzed. Ask about the advantages, disadvantages and possible risks. Your dentist will discuss these with you and make a careful decision as to which solution is best for you.

The condition of natural teeth can be determined with single X-rays.

# 2

## PRETREATMENT



Implant treatment is a high quality treatment method. Implant therapies serve to improve oral health and increase quality of life. After making the decision in favor of an implant treatment, pretreatment is sometimes necessary prior to implantation: for example, the removal of caries or gingival pockets, orthodontic tooth correction or bone augmentation. Bone augmentation prior to implantation becomes necessary if the bone has diminished due to tooth loss.

Pretreatment serves the purpose of making implant treatment successful. This is very important to improve your dental health long-term.

Extensive preexamination and pretreatment are important elements of implant treatment.



# 3

## IMPLANTATION



Even with large numbers of implants being placed every year and implantations today to be regarded as routine interventions, one should not forget that an implantation is a surgical procedure. Modern anesthetic and implant techniques ensure that surgery is as caring as possible. The length of the intervention can vary considerably and depends on the number of implants and the individual situation.

The first stable bone connection is already established at the moment of implantation. It is important to have as much bone surrounding the implant well perfused with blood as possible. During the weeks following implantation, bone growth cells attach to the implant surface from all sides. This process is referred to as osseointegration. Your dentist will explain to you what needs to be observed prior to and after implantation.



The jaw bone is exposed.



A drill hole for the implant is placed in the bone using special drills.



Healing of the inserted implant.

# 4

## INSERTION



Once the implant has been placed, you will be provided with a temporary dental crown if required. In the meantime, your new teeth will be fabricated by the dental technician. Intermediate steps may be necessary to obtain the best functional and esthetic treatment outcome; your practice team will keep you informed about this.



Implant embedded in bone with crown abutment.

After checking the function and esthetic outcome, the prosthesis can be inserted. Now the new teeth are fully functional and can be loaded.

# 5

## CARE



Like with natural teeth, implant restorations also require thorough care. As the implant is firmly anchored in the jaw, the care measures are focused on the transition areas of the gingiva to the crown restoration and the crown restoration itself. Good cleaning and regular check-ups ensure the long-term success of an implant restoration. Gingival inflammation and gingival pockets may occur if implant-supported prostheses are not cleaned from plaque. This could lead to damage of the implants in the long run. Avoid this risk by regular care!

Next to daily oral hygiene with a toothbrush and other aids for cleaning interstitial spaces, professional cleaning in the dental practice is the best investment for the durability of your implants.

Let your dentist and his practice team give you comprehensive advice on dental care, cleaning aids and their use. Regular check-ups serve to secure the long-term success of your implants and to make sure you are pleased with your implant restoration for a long time.

Regular thorough care is essential for the long-term preservation of your implant restoration.

# DENTAL IMPLANTS MAKE ECONOMIC SENSE

Dental implants as used today have been available for over 30 years. Within this time period, science has continuously undertaken research to find the ideal implant surface, surfaces with optimal tolerability and the most caring implantation techniques. Even today, scientific research into dental implants remains a topic worldwide. Long-term studies have demonstrated high success rates. According to studies conducted at universities, 96 to 98 percent of CAMLOG implants remain functional after ten years.<sup>1</sup>

This success is reflected in the dental office. Dental implants are these days used frequently and for numerous initial situations. Every year, over nine million dental implants are inserted worldwide.<sup>2</sup>

The bonus of quality of life and preserved structure due to dental implants is of permanent high value. Compare the costs and the long-term benefits with other alternatives.

The costs of implant restorations are made up of the fees for surgery, dentistry and the services of the dental technician. They depend on how elaborate and extensive restoration with implants is. Put into perspective of the wearing time, an implant restoration is often no more expensive than everyday necessities.

Dental implants are a long-term investment in your health and your quality of life. Implants may last a lifetime if well cared for.

Dental implants restore chewing function fully. Dental implants add to the preservation of the jaw bone, which would otherwise diminish without an implant. In case of tooth loss, implants are the only "true" and "complete" replacement for teeth.

## WHO DOES WHAT?

### **SURGEON**

Responsible for implantation

### **DENTIST**

Responsible for prosthetic restoration

### **DENTAL TECHNICIAN**

Fabricates the prosthesis

Sources:

<sup>1</sup> International CAMLOG Congress, Lucerne, May 2012.

<sup>2</sup> iData Research Inc., 2012, own estimates.





**DENTAL IMPLANTS PER ANNUM**  
**Worldwide: > 9 million**



**Quality and safety "Made in Germany" – proven millions of times.**

# DENTAL IMPLANTS BY **CAMLOG** FOR YOUR **SAFETY**

The manufacturers of medical devices bear great responsibility. CAMLOG is a leading manufacturer of dental implants and has for decades been a reliable partner for dentists, oral surgeons, orthodontic surgeons and dental technicians.

Our special focus is on the processing of human-compatible materials, on obtaining outstanding manufacturing quality and performing complete product inspection for the safety of patients, dentists, surgeons, dental professionals, and dental technicians. The success rates of our implants have been scientifically documented.

CAMLOG guarantees to only develop and manufacture products which comply with state-of-the-art technology and scientific research as well as the relevant standards for medical engineering.

This consistent attention to quality is reflected by the successful certification of our quality management system in accordance with ISO 13485. The high product quality is also confirmed by CE certification.

And, of course, all our products meet the high requirements of the European Directive on Medical Devices, MDD.

All CAMLOG products are manufactured in Wimsheim by qualified craftsmen: "Made in Germany".

CAMLOG® and CONELOG® implants are made of pure titanium. This material is extremely stable and has a high level of biocompatibility.

High precision and reliability are hallmarks of all CAMLOG products. This is our contribution to achieving predictable and reproducible, functional, esthetic and long-term stable treatment outcomes.



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