

Making you smile

MODERN RESTORATIVE AND ESTHETIC DENTAL SOLUTIONS



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Brought to you by your preferred dental partner.
Supported by Nobel Biocare.

Important notice.

The information in this leaflet is intended to provide an overview of routine dental crown and implant treatment. Treatment plans involving dental implants are unique for each individual. Timing, cost, and delivery of care will be customized to suit each patient's individual situation accordingly. Individual care providers will have their own preferences for the way that a particular course of treatment is delivered, and they may suggest alternatives or variations that are not included in this brochure.

Special information on immediate implant procedures.

For this technique, a tooth is removed and an implant is placed immediately into the extraction site. Depending upon the local bone and soft tissue conditions, the implant surgery may be a one- or two-stage procedure. Not all patients are suitable for this approach.

Restoring quality of life.

Attractive, natural-looking teeth help us look and feel our best. They let us enjoy the foods we love. And they allow us to be naturally confident where it really counts – at home, on the job, on the playing field, but, especially, on the inside.

That is why the loss or damage of even a single tooth can have a considerable impact on everyday life and self-esteem. Fortunately, modern dentistry offers a variety of ways to restore or replace teeth. In fact, with today's latest technologies and materials, individual teeth – or even entire rows of teeth – can be replaced for natural-looking appearance and restored function.

Today, modern dental restorations help thousands of people improve their lives. We invite you to learn more about the many options available to you, and how to make that first big step toward regaining a natural, self-assured smile.



“What can modern dental restorations do for me?”

Mind the gap.

Replacing missing teeth.

Missing teeth can and should be replaced. This is because each and every gap in your tooth placement potentially poses problems to your long-term dental health. In fact, even one missing tooth can ultimately lead to the loss of additional teeth and, ultimately, a permanent change in your facial appearance.

People lose their teeth for many reasons – from accident and illness to deficient care. Whatever the reason, the immediate consequences can have a negative impact on one's quality of life. People may no longer eat many of the foods they once enjoyed. Self-conscious about their physical appearance, they stop laughing and smiling spontaneously.

Stopping the chain reaction.

Unfortunately, these short-term changes may only be the beginning. Adjacent teeth can collapse into the gap, while teeth in the opposing jaw can grow into the gap. Long-term missing teeth also cause the bone to be resorbed – or to gradually break down. This weakens the adjacent teeth until they, too, can fall out. In short, the loss of even a single tooth can unleash a chain reaction which, left unchecked, can lead to even more permanent, irreversible physical damage.

Taking action.

Fortunately, modern dental solutions can help you and your dentist gain an early foothold in the process, stop further damage, and restore your oral health. By closing every gap as quickly as possible, you are building a firm foundation for a happier, more productive life that allows you to look – and feel – your best.

What is a dental implant?



“How will a healthy looking smile improve my life?”

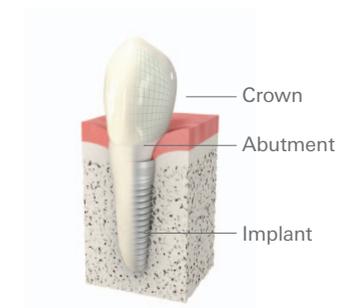
Creating a new foundation.

Dental implants are artificial roots that serve as a replacement for missing teeth. Research indicates that dental implants' biocompatible surfaces actually stimulate the required fusion with the bone. Once that has been achieved, the crown, bridge, or whole tooth replacement can be fixed to the implant or implants to feel and function like natural teeth.

Each year, millions of implants are successfully placed in patients throughout the world. In light of a very high treatment success rate, it is no wonder that the trend toward implants continues to grow.

Teeth as individual as you.

Dental crowns and bridges are replacement teeth that are individually produced to meet your own personal needs. It is recognized that all-ceramic crowns and bridges offer the best esthetic solution.





“Are dental implants right for me?”

Why are implants used?

The many uses of implants.

Implants can be used for all kinds of restorations. Unlike a traditional bridge, a single implant restoration replaces a tooth without the need to grind down the adjacent teeth. Bridges anchored with an implant are free-standing and do not rely on the support of the surrounding teeth. Fixing a partial restoration on implants also avoids the need for less esthetic anchoring methods, like clasps.

Solutions made to last.

Regardless of the cause of tooth loss, dental implants can be a simple, proven and lasting solution for restoring teeth. After a thorough examination of your previous medical history, your dentist can advise you on whether dental implants may be the right solution for you. Anyone who is missing one or several teeth because of injury, disease, or tooth decay is a candidate for dental implants. There is no upper age limit. In fact, the deciding factor is that the jaw is no longer growing and that there is enough good, healthy bone to permit placement. If the amount of bone is inadequate, it is also possible for the bone to be built up.

Nevertheless, heavy alcohol consumption, smoking, diabetes, or other clinical conditions may interfere with an implant's integration process and its ultimate long-term success. People who grind their teeth at night must also undertake a careful evaluation with their dentist.



“Are modern restorations long-lasting solutions? Are they safe?”

The advantages of restoring teeth.

- 1 Real natural tooth function.**

Restoring teeth has been a mainstay of modern dentistry for many years. But only after the advent of dental implants and ceramics have patients been able to enjoy restorations that feel, function and look like natural teeth.
- 2 Limitless possibilities.**

Modern dental restorations are supported by either the remaining natural teeth, dental implants or any combination of the two.
- 3 Materials of choice.**

Titanium is currently the most suitable implant material. Titanium implants are biocompatible and do not trigger any allergic reactions.

The ceramic materials used in prosthetics are also 100% biocompatible. All-ceramic materials do not cause any allergic reactions, and sensitivity to heat or cold are a thing of the past.
- 4 Quality of life.**

Modern dentistry is undergoing a rapid advancement of solutions and products to satisfy all patient requirements, improving daily chewing function and restoring personal appearance.

The advantages of dental implants.

1

Delivering a proven, successful solution.

Dental implants are widely recognized to be the most successful method of tooth replacement used today. Placed by specially, trained dentists, implants and modern prosthetics are hard to tell apart from your natural teeth. The color, shape and contour of replacement teeth can be adapted to match that of your natural teeth. And with dental implants, healthy teeth do not have to be compromised.

2

Maintaining a youthful appearance.

Maintaining your natural bone is one of the most important advantages of dental implants. With missing teeth, the bone begins to resorb over time. Significant bone loss can shrink the contours of the jawbone, causing wrinkled lips and a sunken mouth and chin. Dental implants can help counteract that by preventing resorption of the jawbone, stimulating bone growth and stopping bone loss.

3

Preserving your healthy teeth.

With conventional dental bridges, adjacent teeth are used as anchors and must often be ground down. Dental implants eliminate this need and allow natural, healthy teeth to be preserved in their original state.

4

Comfortable solutions that last.

The latest prosthetics and implant solutions are very durable. They are more stable, more comfortable, and more functional than conventional dentures. And because dental implants are made of biocompatible materials, they are also more tolerated by the body. With proper care and good oral hygiene, a prosthetic solution will last for many years. A dental implant can actually last a lifetime.

5

Providing stable retention and security.

The stable retention of prosthetic solutions and implant-supported tooth replacements offers strength, reliability and durability similar to that of natural teeth. Crowns, bridges or prosthetics are securely anchored to integrated dental implants. This eliminates some of the main problems of conventional prosthetics: poor fit, gum irritation, pressure points, speech and taste impairment. The result is an esthetically comfortable, reliable and stress-free solution.

Individual treatment plans.



“How does a restorative procedure work?
Is it painful?”

In ideal cases, implants can be placed in as little as one session. Your treatment plan will, however, be dependent on your particular clinical situation. Depending on the treatment procedure, it may take between one and two hours. Afterwards, the implant often needs time to integrate so that it can fuse with the bone. The better the quality of the bone, the better the conditions and the shorter the treatment duration. Depending on the clinical situation, a temporary tooth may be provided during the integration period. Once this integration phase has been successfully concluded, the final replacement tooth can be attached.

1

Diagnosis and pre-treatment planning.

The dentist will first make a careful diagnosis and examine whether the conditions for implant treatment have been met. It is essential that gum and bone are free from inflammation (periodontitis) and tooth decay. If necessary, these conditions are also treated. During a diagnosis, the quantity and quality of the bone is also thoroughly examined. If there is an inadequate amount of bone for implant treatment, it can also be built up.

2

Placing the implant.

Implant placement can be performed very quickly and, thanks to local anesthesia, it is relatively pain-free. With careful preparation and execution, the treatment should conclude without problems and with minimal risk.

3

Biological integration.

In the vast majority of cases, implant integration occurs quite quickly and without problems. Typically, any minimal discomfort experienced following implant insertion improves rapidly. In a minority of cases, it may take up to a year for the implant to fully integrate with the bone.

4

Final teeth.

The last step of any implant treatment is the attachment of the final new tooth or teeth. In some cases, this can be performed immediately after the implants have been placed. In most cases, however, a temporary tooth is placed while the implants integrate with the jaw bone and the final replacement teeth are being manufactured. Final teeth are individually designed. These high-precision custom-made crowns and bridges – often made of all-ceramic biocompatible materials – are attached to implants using cement or tiny screws.

Complications and risks.

Careful preparation and implementation of prosthetic or implant treatment reduces risk to a minimum. Implant treatment is nonetheless a surgical procedure. As such, it is associated with certain risks. Under normal circumstances, the swelling and mild pain which may occur often disappear after a few days. Periodontitis, poor oral hygiene, inadequate wound healing, cigarette smoking, or serious general diseases (e.g. diabetes) are also risk factors, which, depending on their severity, may be a contraindication for dental implants. Your dentist will be glad to provide you with information about potential complications and risks.

Care and durability.

How long implants and new teeth last depends primarily on how well your teeth are cared for. If you have good oral hygiene, including good home care and regular dental check-ups, your implants can last for many years, possibly up to an entire lifetime.

Restoring a damaged tooth.



»Which solution is right for me?«



Crown on a natural tooth.

A dental crown is used to restore any tooth that is destroyed or esthetically damaged. Frequently, it makes sense to restore the tooth with a completely new crown.

For this purpose, the tooth is ground down far enough so that a new crown can be placed on the remaining healthy natural tooth structure. This provides a strong, natural foundation for the new crown.

If your dentist prescribes a ceramic crown, it will be made from biocompatible materials. It will be individually manufactured to ensure that it perfectly matches the patient's adjacent natural teeth.

Replacing a missing tooth.



Crown on implant.

If you are missing only one tooth, an all-ceramic dental crown on a dental implant is often the best choice. The implant serves as a foundation for a dental crown.

The ceramic crown is then attached to the dental implant. It matches the shade and contour of your natural teeth so that no one can tell the difference. Replacing a single tooth with an implant-based solution does not compromise healthy adjacent teeth, nor is there a risk that continuing bone loss will weaken neighboring teeth.

Replacing several missing teeth.



Bridges on natural teeth.

For two or more missing teeth, a bridge cemented to natural teeth is an economically viable, long-term solution. The bridge is supported by the adjacent natural teeth, which must be ground down beforehand to serve as a support for the new bridge.



Bridges on implants.

A bridge supported by implants counteracts bone loss and protects the remaining healthy teeth. If two or several teeth are missing, a bridge firmly anchored to implants provides an esthetically pleasing and functional result that helps prevent further loss of natural bone.

Tooth replacement when all teeth are missing.

Missing all your teeth can have a devastating impact on quality of life. It often makes people appear older than they actually feel. Conventional solutions include adjusting the denture base to the gum tissue with either a dental adhesive or by holding it in place with a close seal along the border of the denture. The success of conventional solutions depends largely on the amount of residual bone and soft tissue. The loose attachment of the tooth replacement can also reduce chewing capacity, which can lead to an unbalanced diet and poor digestion – crunchy vegetables and fruits, for example, are almost impossible to eat. Bone loss may also progress, and the functionality of the tooth replacement will increasingly diminish. When the palate is covered by an upper denture, a reduction in the sense of taste can also be expected.

By contrast, prosthetics supported by implants function and look like natural teeth. Patients say that the biggest advantage of implant-supported dental prosthetics is a restored self-esteem. For them, it is possible to eat, talk and laugh again in an uninhibited way. Another benefit is the absence of the unpleasant aspects of conventional dental prosthetics, including improper fit and messy adhesives. People with securely fitting tooth replacements feel better, look better, and enjoy a higher quality of life.



Removable tooth replacement on implants.

A removable prosthesis secured on two or more implants using mechanical anchors, which retain the prosthetic in a very secure way. After placement, an implant-supported prosthesis largely functions and appears just like natural teeth. The sense of taste is also preserved, as the roof of the mouth is not covered with an acrylic denture. Another advantage is that the bridge can be removable for cleaning.



Removable bridge on an implant bar.

The bar serves as a supporting element for a removable prosthesis and is supported by two or more implants. The prosthetic attaches to the bar to provide secure retention. Here again, the prosthetic can be removable for easy cleaning.



Fixed implant supported bridge.

A fixed prosthesis consists of a dental implant bridge supported by four or more implants. The prosthesis is fixed firmly to the dental implants and the gum remains free. As a result, taste sensation is maintained. Screw-retained bridges allow teeth to function without restrictions.

Patient testimonials.



"My teeth were an embarrassment for most of my life. My new smile has not only improved my appearance, but it has also given a great boost to my confidence. It's definitely the best personal investment I've made."

Andrea A., 42



"I'm glad I finally did something about my less-than-perfect smile. The procedure was painless and the results speak for themselves." Paul G., 43



before



after

Upper jaw restoration: NobelProcera™ crowns on natural teeth and bridge on implants.

After many years of wearing a partial removable denture, this patient received all-ceramic crowns on her remaining natural teeth and an all-ceramic bridge on newly placed implants. Pink porcelain was used in areas to improve overall esthetics.

Patient case courtesy of Dr. Daniel Abbondanza and Mr. Sascha Hein, Australia



before



after

Restoring several teeth: Dental crown on implant and laminates on natural teeth.

This patient wanted to improve his smile; a single implant replaced the right front incisor and restored with a NobelProcera™ abutment and crown. To complement the new crown, three NobelProcera™ veneers were placed on the adjacent natural teeth.

Patient case courtesy of Kleinsman Kleinsman Dental Clinic, Germany



“Finally, after all these years in dentures, I feel myself again. The new teeth on my implants feel and look better than my own teeth did. It’s all about the quality of life – I feel younger and more self-confident. My entire outlook on life has changed.” Edith R., 58



“The freedom of being able to smile and to know that my smile is beautiful and healthy makes me feel younger, more attractive, happier.” Margareta L., 67



before



after

Upper and lower full-jaw restorations: NobelProcera™ implant bridges.

The patient had been wearing complete dentures in both jaws for years and was dissatisfied with function, speech and appearance. Using planned and guided surgery software, implants were placed in both jaws and immediately restored with provisional restorations. Because of the patient’s high esthetic requirements, final implant-supported fixed NobelProcera™ ceramic restorations were fabricated for both arches. Patient case courtesy of Dr. Peter Wöhrle and Ms. Aki Ogata, USA



before



after

Ceramic crowns and bridges on natural teeth.

This patient suffered from a negative smiling line and bad crowns on canines and in the molar region. Due to the state of the damaged tooth enamel and the old amalgam fillings, her dentist replaced all of the old amalgam and gold fillings in the damaged teeth with new dental crowns and bridges.

Patient case courtesy of Dr. Hans Åhlund and Ms. Bodel Sjöholm, Sweden

What you need to know.

- **When are prosthetic solutions used?**
Prosthetic solutions are used to replace damaged or missing teeth. New dental crowns and bridges are individually designed and supported by either remaining natural teeth or dental implants. Prosthetic solutions are available for a single tooth, several teeth, or a full jaw.
- **What is an implant?**
Dental implants serve as artificial roots, firmly anchored into the jawbone, that support removable or fixed tooth replacements.
- **When are implants appropriate?**
When one tooth or several teeth are missing, or when the whole jaw is completely without teeth. Various treatment processes and implant solutions are available that take the medical and personal needs of the patient into account. The dentist will advise the patient on the optimal solution.
- **Why is placing an implant recommended?**
Dental implants ensure that the jawbone remains functional and help prevent further bone loss. This reduces the risk of a chain reaction, which, in the most extreme cases, can result in the loss of all teeth. Dental implant treatment can restore the patient's natural appearance, self-confidence and ability to eat the things they like.
- **What material are implants made of?**
Dental implants are made of commercially-pure titanium – a material proven to be accepted by living tissue (biocompatible). Adverse reactions to titanium are extremely rare.
- **How long do implants last?**
With proper care and regular checkups, your implants can last for a lifetime. Many patients have had implants for 15 years and longer. The likelihood of an implant still being fully functional after ten years is greater than 90%.
- **What are the age limitations for implants?**
Typically, implants are not placed in individuals whose jawbones have not yet fully developed. But, good health is a primary deciding factor. In healthy older patients, the prospects of success are virtually the same as for younger people.
- **Is implant treatment unpleasant or even painful?**
No, implants are generally placed under local anesthesia. Placing the implants involves minimal discomfort for the patient.

The Nobel Biocare quality guarantee.

→ **With implants, how long do I have to wait for my new teeth?**

In ideal cases, some implants can be restored right after the implant is placed, during the same visit. This means that you can leave your dental professional's office with a temporary, or even permanent, prosthetic in place. In most cases, you will have to wait until the implant is sufficiently bonded to the bone.

→ **Will I be able to feel the implants?**

Once placed, implants cannot be felt. Titanium implants are completely biocompatible and very well-tolerated by the body. The same applies to all-ceramic replacement teeth.

→ **What does tooth replacement cost?**

Everyone is different. As a result, the cost of the implant procedure and preparation of the tooth replacement will differ as well. For this reason, it is not possible to give an all-inclusive cost estimate.

As the pioneer and leading innovator in restorative and esthetic dentistry, Nobel Biocare offers dental professionals implants and prosthetic solutions that comply with the highest scientific standards. Products are manufactured using state-of-the-art production methods. All products are cleared for use by the U.S. Food and Drug Administration (FDA) and other regional and local health authorities.

All Nobel Biocare products undergo rigorous quality assurance and testing before being marketed or provided to your dentist. In the interest of patients, the efficacy of all of our products is scientifically tested. Nobel Biocare has over 40 years of dental research experience and makes all relevant data available to the public, and recommends that implant patients choose only tested and proven products.

Notes.



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