

All-On-4®

DENTAL IMPLANTS



All-on-4® treatment concept
Centre of Excellence

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Welcome

My experience with the All-On-4® treatment concept began 10 years ago. To me, it looked like a revolutionary way to replace a full set of teeth and prevent a client from ever having to wear dentures.

Having seen the difficulty clients had with dentures, the All-On-4® treatment concept was something I wanted to offer.

However, I noticed that treatment was being performed in different ways to varying standards and with different levels of client satisfaction. I soon learnt that there was much more to replacing a full set of teeth than simply placing four dental implants. Planning and execution of the technique along with the materials used all contribute to long-term success.

This took me on a journey across the globe learning everything I could about All-On-4®. I travelled across Australia, to the US, UK, Portugal and Brazil to learn from pioneering clinicians.

Fast forward to today and All-On-4® is something we focus our practice on at Perth Dental Implant Centre. It has become a kind of obsession for my team and I, and we are fortunate enough to be able to transform people's lives each and every week.

We have adapted our own protocol which is backed by years of study and experience, and we believe this protocol gives our clients the most cost-effective solution with the highest chance of long-term success.

All-On-4® treatment when carefully planned and executed has unprecedented success rates. We see it as a journey and on behalf of our clinicians, anaesthetists, lab technicians, treatment coordinators and dental assistants, we thank you for choosing us to accompany you on that journey.

Dr David Norcross

Dr David Norcross

BchD (Leeds), Master Clinician Implant Dentistry (GiDE and UCLA)

Dental Surgeon and Founder Perth Dental Implant Centre





An All-On-4 smile every week.

All-On-4® Centre of Excellence

Being recognised as an All-On-4® Centre of excellence by Nobel BioCare, the company that founded the All-on-4 treatment concept 25 years ago, has been a huge honour and something my team and I are very proud of. Our goal is to be one of the leading clinics in Western Australia providing full mouth rehabilitation with dental implants.

One of only a handful of All-On-4® Centres of Excellence across Australia, this designation demonstrates our surgical experience and completed training in All-On-4® techniques using genuine Nobel BioCare dental implants.



All-on-4® treatment concept

Centre of Excellence

Dental implants

Dental implants are high grade titanium screws that mimic the function of natural tooth roots. They are placed into the jawbone by a trained dental surgeon and then attached to prosthetic teeth with connecting titanium abutments.

Dental implants are designed to look and function just like natural teeth and are considered the gold standard solution to teeth replacement. They can support a single tooth, several teeth or a full arch of teeth.



Nobel Biocare implant specifically designed for All-on-4®

Ti (Titanium)

Titanium is a metal that is known for its biocompatibility with human bone. This discovery was first made in 1952 by Swedish physician, Professor Per-Ingvar Brånemark by accident when he was studying how blood flow affected the bone healing process.

Titanium-housed optical devices had been inserted into the legs of rabbits and when the team went to remove the devices, they discovered the titanium had fused to the bone and couldn't be moved. Brånemark named this fusing process, osseointegration.

In 1965, the first titanium dental implants were successfully placed in a patient and after years of research and clinical trials, the dental implant system became commercialised in 1978



Professor Per-Ingvar Brånemark



Implant bridge connected to All-On-4 dental implants

About All-On-4®

The All-On-4® implant system supports a full set of replacement teeth on four dental implants placed in the upper or lower jaw.

Surgery involves placing two implants at the front of the mouth and two at the back on a 45-degree angle to maximise the amount of available jawbone and to avoid contact with the nerves and sinus cavity. During surgery, impressions are taken for the dental technician to fabricate a fixed bridge of replacement teeth, which are attached within just a few days.

History of All-On-4®

The All-On-4° implant system and surgical protocol was developed by Professor Paulo Malo for Swiss dental implant manufacturer, Nobel BioCare in 1998. Although widely adapted by other dental implant companies since, the trademarked technique for placing full mouth dental implants using genuine All-On-4° implants, is backed by decades of clinical studies with success rates up to 98%.*

The All-On-4® treatment concept avoids the need for bone grafting due to the way the implants are placed, making full mouth dental implants a possibility for more people.

Why is All-On-4® used?

The conventional way to replace a full arch of teeth was to insert a dental implant for each tooth. These implants were placed and left for three to six months to heal before the teeth could be attached.

Using All-On-4®, an entire set of teeth can be supported on just four implants. Placing fewer implants simplifies surgery, reduces surgery and healing time, is easier to maintain and is far more affordable. It is estimated that the All-On-4® technique has changed the lives of over 250,000 people worldwide.





Our difference

Not all dentists use the same approach

The type of implants and prosthetic teeth used in All-On- 4° can vary in quality, affecting their price, durability and treatment outcomes.

The traditional method to All-On-4® uses a two-stage approach and a temporary full-acrylic bridge which needs replacing with a second bridge within three to six months of surgery. The initial acrylic bridge is low quality as it's intended to be worn temporarily.

Temporary bridges can be fragile and difficult to keep clean because of their rough surfaces which may trap food. During the healing process when implants are still fusing to the bone, any undue stress on implants caused by poor hygiene or breakage can increase the risk of bone loss and implant failure.

Our single-stage approach to All-On-4® teeth

We fit you with a strong titanium-reinforced acrylic bridge within days of surgery. Your bridge is made of high-quality acrylic that is reinforced with a milled titanium frame. Using a titanium-reinforced acrylic bridge promotes better healing of implants, is more affordable and lasts much longer than a temporary bridge.



X-ray of All-On-4® dental implants



Titanium frame



Promotes better healing

- Smooth fitting surfaces make the bridge easy to clean.
- A hygienic environment is less prone to gum infection and shrinkage.
- A titanium frame strengthens the acrylic making it less prone to fracture.
- A titanium frame splints implants together to evenly dissipate loads and protects individual implants.



More affordable

- Avoid incurring the additional expense of a second bridge within the first year of surgery.
- The cost of a new bridge starts from \$8,500.



Lasts longer

- Temporary bridges used by other clinics may last between three to six months before needing to be replaced with a second bridge.
- Our All-On-4 bridges may last between two to five years, or sometimes longer before needing to be replaced.
- Choose from a number of replacement bridge material options according to your individual needs.

All-On-4® teeth

At Perth Dental Implant Centre, our experienced dental lab technician uses precision milling technology to manufacture titanium-reinforced acrylic bridges which are fitted within days of surgery.

We'll help you choose the shape and shade of your new teeth, ensuring they work in harmony with your smile and complement your facial structure.

You'll meet with our lab technician to preview their design before they are finalised.



Titanium-reinforced acrylic bridge processed over a titanium frame.

Patrick Barrett-Lennard, Adv Dip Dent Pros Dental Technician

Patrick has almost two decades' experience custom-designing high quality dental prosthetics, including fixed All-On-4® dental implant bridges. Patrick has completed a Certificate III in Dental Technology along with an Advanced Diploma of Dental Prosthetics at the Central Institute Of Technology in Perth. He has also completed an Implant Retained Overdenture Course at RMIT.

Patrick managed one of the largest dental prosthetic clinics and labs in Perth for 12 years before establishing his very own dental laboratory in 2014. Owning and running his own lab allows Patrick to maintain complete control over every product he manufactures, from the initial model pouring stage right to the final polishing process.



Titanium frame hidden within the bridge



Jawbone health

"Good jawbone health is vital for stabilising dental implants. It's common for clients who suffer from gum disease, dental trauma or those who have gone without natural teeth for some time to have jawbone loss."

A 3D-scan allows us to view the amount of bone available in the jaw however, it isn't until the time of surgery that Dr Norcross is able to assess the bone quality. If there is insufficient jawbone or poor bone quality, it may be necessary to place additional implants, longer implants or to perform a bone graft to ensure the system can be adequately supported.

Additional implants

While All-On-4® refers to four dental implants on one bridge, additional implants may be placed to provide more support and stability.

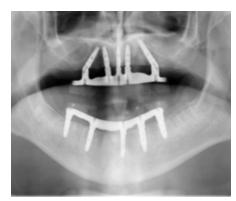
















Pterygoid and zygomatic implants are used in cases where there is significant bone loss in the upper jaw. They are longer implants that are sometimes used in combination with conventional implants.

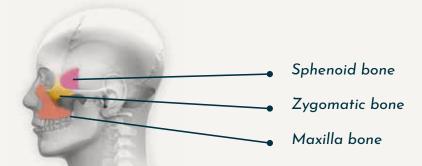
Pterygoid implants

Pterygoid implants are placed at the junction of the upper jawbone and pterygoid process of the sphenoid bone (the bone that forms part of the base of the skull).

This area of bone provides excellent anchorage for implants as it has a high density and hardness that does not shrink over time.







Zygomatic implants

Zygomatic implants are longer than pterygoid implants and are placed into the zygomatic bone (cheek bone).

Like the sphenoid bone, the zygomatic bone is very dense and stable and provides a strong foundation to anchor dental implants.







Bridge replacements and upgrades



Remodel of existing bridge \$5.500

To remodel an existing bridge, we replace the acrylic and teeth over the original titanium bar. Our lab technician strips back the worn acrylic and reprocesses the new teeth over the bar

This is the most economic option for replacing a bridge however, you will be without the bridge for three to five days. If you require changes to the bite or aesthetics, a new bridge will be recommended.



Replacement titanium-acrylic bridge \$8,500

Replacement titanium-acrylic bridges are designed with a visible polished titanium frame that is in contact with the gums.

This bridge is easier to clean and promotes a hygienic environment under the bridge. Choosing a new titanium-reinforced acrylic bridge allows you to wear your existing bridge while the new bridge is being manufactured, and you do not have to go without teeth.



Monolithic zirconia bridge \$9,500

A monolithic zirconia bridge offers superior strength, durability, and natural aesthetics. It is made from a zirconia framework set around a computer-designed and milled titanium frame

Zirconia bridges are only an option as replacement teeth, or at least six months after implants have completely healed from surgery, as they take longer to manufacture and cannot be adjusted like acrylic bridges can.



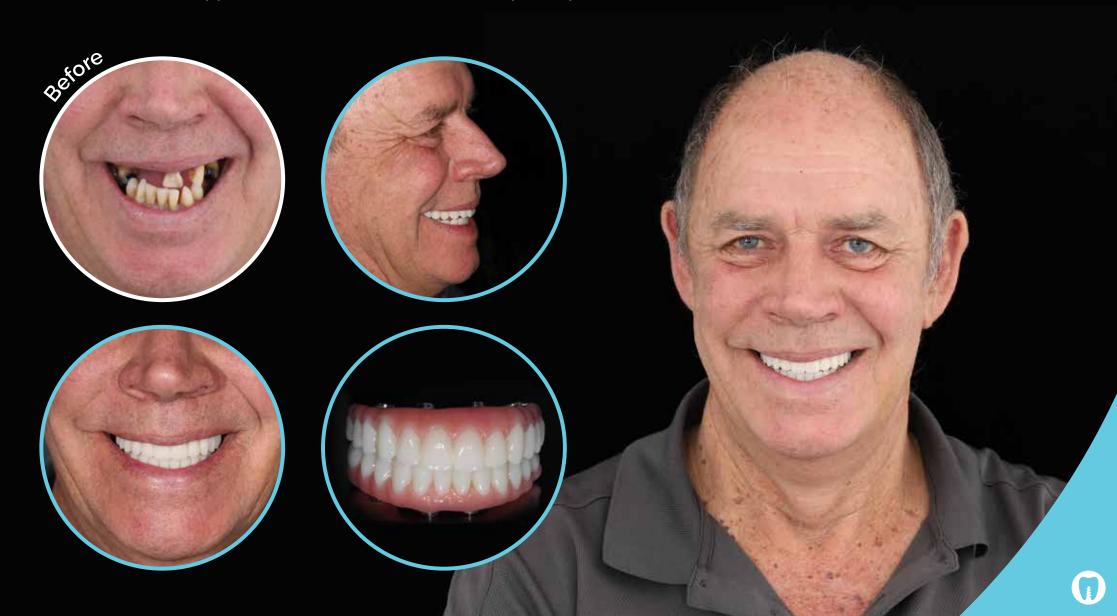
Layered zirconia bridge \$10,000

A porcelain-layered zirconia bridge is made of titanium-reinforced zirconia that has porcelain layered over the top of teeth to add translucency and character. It is the ultimate option in aesthetics.

Titanium-reinforced acrylic bridges may last between two to five years on average, while titanium-reinforced zirconia bridges may last an average of 10 to 15 years however, it is not uncommon for our clients to keep their bridges for much longer than this. The longevity of a bridge depends on individual biting forces and how well the bridge is maintained. If you have a strong or heavy bite or teeth grinding habit, we may recommend upgrading to a zirconia bridge after your implants have healed.

lan

Our client Ian had upper and lower All-On-4® dental implants placed.



All-On-4® Treatment process

Placing Your Dental Implants

Dental implant surgery involves removing all unwanted teeth and placing dental implants into your jaw bone.

Final Checks & Fit Appointment

3-5 days after surgery, we fit the bridge and show how to clean your teeth. Your mouth is then left to heal.

Maintaining Your New Smile

After six-months, we check your dental implants & bridge, then professionally clean and polish your teeth.



Consultation and Treatment Planning

Discuss treatment goals and process, take diagnostic scans and present your treatment plan.



Aesthetic Try-In & Adjustments

1-2 days after surgery, we will try-in your new teeth. We check your bite, aesthetics and adjust as needed.



Follow Up

We check your dental implants and bridge at 4 weeks and again at 3 months after surgery.



STEP 01 Consultation & treatment planning



We check your suitability for All-On-4® dental implants by taking a cone beam computed tomography scan (CBCT) to determine whether there is enough jawbone to hold dental implants in place. We discuss your treatment options and the risks and benefits of each solution.

Your tailored treatment plan and detailed cost estimate is prepared by Dr Norcross and sent to you to consider and discuss with family. After accepting your treatment plan, your treatment coordinator will then confirm your appointment schedule. In your first scheduled appointment after your consultation, we take clinical photographs, x-rays and impressions for Dr Norcross to digitally plan your surgery.

You'll choose the shape and shade of your new teeth and relay any special requests for our dental technician regarding their design.





Your Treatment Coordinator Courtney Deaton is your dedicated treatment coordinator who will quick

treatment coordinator who will guide you through your treatment journey from beginning to end.

Courtney's role is to educate clients about All-On-4°, schedule appointments, review medical history, arrange accommodation (if you reside interstate) and assist with early access to superannuation and payment plans. Courtney will be your direct point of contact throughout the journey.



CBCT scan

STEP 02

Placing your dental implants



Your All-On-4® surgery is performed by our highly experienced dental implant surgeon, Dr David Norcross.

Surgery involves Dr Norcross removing any remaining teeth and infected or poor quality bone, before carefully placing Nobel BioCare dental implants into the jawbone using the All-On-4® technique.

3D planning software and a surgical guide may be used to guide implants into the ideal position. Once the dental implants are precisely positioned according to the surgical planning, an abutment is connected to each implant and the gums are sealed with dissolvable stiches around healing caps. Finally, impressions and/or digital scans are taken to mark the position of the implants for our lab technician to fabricate your bridge.

Digital planning



Healing caps

Sedation and anaesthesia

All-On-4® surgery is typically performed under general anaesthesia in hospital however, it can also be performed under local anaesthesia in the dental chair with or without some form of sedation.

Sleep dentistry

Sleep dentistry is a safe and common form of sedation that puts you into a relaxed, semi-conscious state. Intravenous (IV) sedation is administered at one of our clinics by a qualified GP anaesthetist, who monitors your vital signs throughout treatment. In what may feel like a 10 minute nap, your dental implants are placed with very little recollection of the surgery, if any.

General anaesthesia

Dr Norcross performs the majority of All-On-4® surgeries under general anaesthesia at a private day hospital. An anaesthetist administers the general anaesthesia, which induces an unconscious state.

Hospital costs may be fully or partially covered for clients with private health insurance and hospital cover however, hospital excess and anaesthetist fees may apply. If you do not have private health insurance, anaesthetist and hospital fees can be added to your full treatment estimate.



Lab production

Your All-On-4® bridge is manufactured in a local dental laboratory where our lab technician fabricates your bridge by setting the teeth in wax, ready for your try-in appointment. Once you're happy with the design, teeth are converted to high-quality acrylic over a digitally-milled titanium frame and then fitted at your final appointment.



Wax try-in



Acrylic teeth before being processed over titanium frame



Designing the teeth



Titanium frame within a bridge, side view



Designing the teeth



Titanium frame within a bridge, back view



Milling a titanium frame



Final upper bridge being fitted

STEP 03

Aesthetic try-in & adjustments



"Our lab technician first sets the teeth in wax for a preview of your new smile."

Between one and two days after surgery, you'll be able to try-in a wax version of your bridge and preview what your new smile will look like. This is the last appointment before your final fitting where we check your bite, make sure you are happy with how your new teeth look and record any adjustments for the lab technician to finalise the design of your bridge.



Teeth are set in wax and tried-in



We check your bite and aesthetics



We record adjustments for the final design of your bridge

Mike

Our client Mike had upper All-On-4 dental implants and a lower full denture placed.











STEP 04

Final checks & fit

Between three to five days after surgery, you attend the final fitting appointment.

Your final fitting can be an emotional experience for everyone involved, as we reveal the new smile you've been waiting for.

Our team is forever grateful for the opportunity to be a part of our client's journeys and smile transformations.



STEP 05

Review

You'll attend follow-up appointments at four and 12 weeks after surgery where we check your dental implants, bridge, speech and bite.

We explain how to care for your smile while your implants heal and show you how to brush and floss teeth using your water flosser.

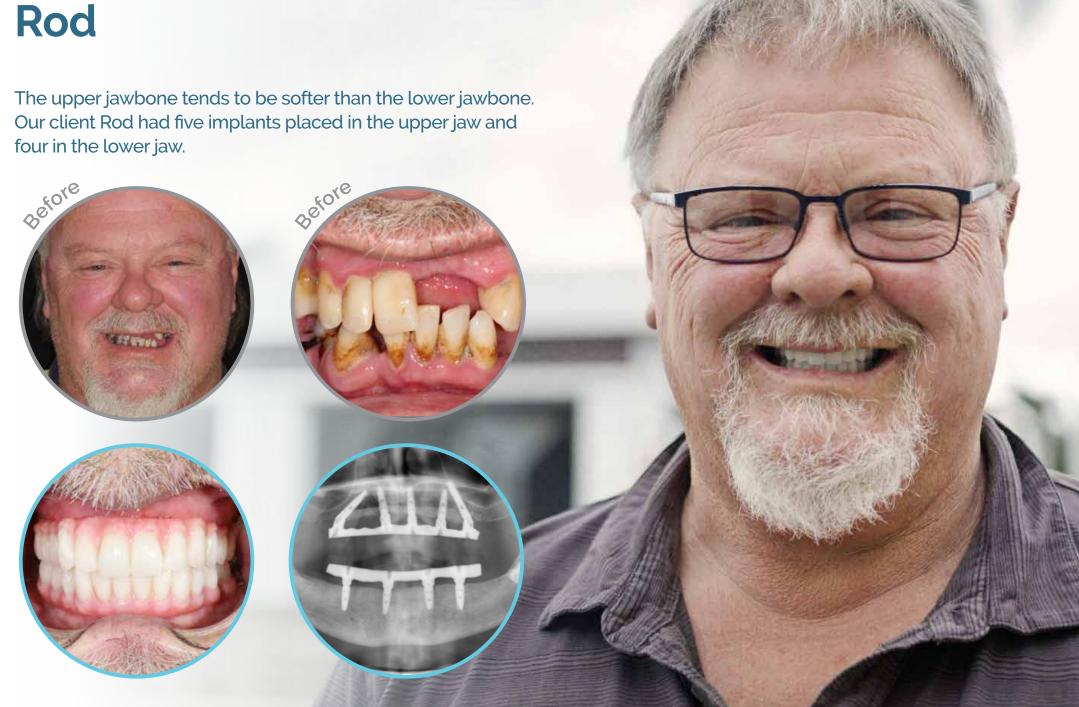
During one of these appointments, we'll take photographs to show your before and after results.











What to Expect After Surgery



Healing Time

Healing of dental implants in the lower jaw typically takes between three to four months and up to six months in the upper jaw.



Pain, swelling and bruising

Pain, swelling and bruising are normal reactions to surgery. Most clients report mild to moderate levels of pain in the first week after surgery. This is managed with pain relief provided.

Swelling and bruising typically peaks at 48 hours after surgery before subsiding completely after one week. Use an icepack immediately after surgery to help reduce inflammation. We can provide you with anti-inflammatory medication if you are able to take them without ill-effect.



Bite and speech

It may take a few weeks to get used to the shape and feel of your new teeth.

The new teeth may temporarily affect your speech and chewing will feel different until your mouth adapts.



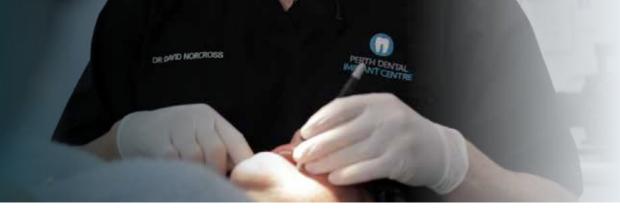
Soft diet

Diet and nutrition are particularly important for ensuring the body gets the nutrients it needs for your mouth to heal after surgery.

Follow a liquid diet for the first few days and a soft food diet for eight to 12 weeks after surgery. A soft food diet aids your recovery by limiting the load transmitted through dental implants as they integrate into your bone. (Refer to our Soft Diet & Meal Ideas brochure).

STEP 06

Maintaining your new smile



We aim to give you the best possible start to long-term implant health. You will see Dr Norcross and one of our dental therapists for your routine maintenance appointments every six to 12 months after your bridge has been fitted. During these appointments, your dental implants, bridge and oral health are assessed, and we discuss any questions you have about maintaining your new smile.

6-12 monthly maintenance visits

Practising good oral hygiene and attending regular dental check-ups are essential for maintaining implant and gum health. You'll attend routine maintenance visits every six to 12 months depending on the condition of your bridge. In these visits:

- Bridges are removed and gum health around the implants is checked.
- The tension on implant abutments is checked and re-tightened if necessary.
- Bridges are professionally cleaned and polished. This process involves placing them in an ultrasonic bath, carefully removing any calcified plaque with air abrasion and re-polishing all surfaces.
- An x-ray is taken every two years to monitor bone levels under dental implants.

Bridge repairs

It is normal for prosthetic teeth to require repair from time to time. If your bridge becomes chipped, it can be repaired by our lab technician, often within the same day. Bridge repairs range from \$350 to \$600.

If you have private health insurance with dental extras, a portion of these repair costs may be covered.

We recommend wearing the nightguard provided to you to prevent damage to your teeth while you sleep. If you experience recurring damage or severe damage that is beyond repair, a replacement bridge may be recommended.



Before professional cleaning



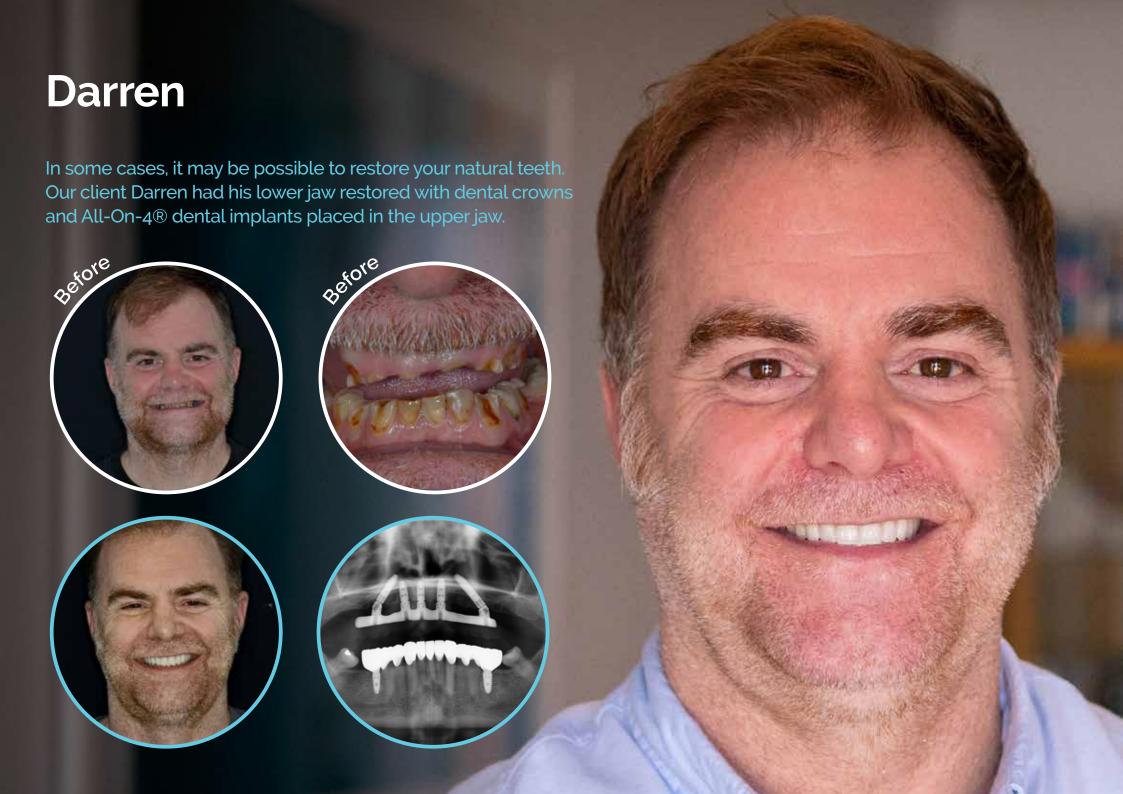
After professional cleaning

Nitika

We chose a hybrid solution for our client, placing a full denture in the upper jaw and lower All-On-4® dental implants.







Reasons to consider All-On-4®

People considering All-On-4® dental implants may have experienced extensive tooth decay, gum disease or a combination of these conditions which has led to poor oral health and affected the function of their smile. Existing denture-wearers or people with failing dental restorations are also common indications for treatment.

















Tooth decay

Tooth decay develops when food debris mixes with bacteria in the mouth to create a sticky film called plaque. If left untreated, bacteria in plaque releases acids that begin to weaken enamel, resulting in cavities.

Gum disease

Gum disease is an infection of the gums that occurs when bacteria build up under the gum line, attacking the gum tissue and bone structures that hold teeth in place. Common causes of gum disease are smoking, poor oral hygiene, genetics, hormonal changes, prescription medication, nutritional deficiencies and crooked teeth

Dentures

A full denture relies on suction to stay in place and can be difficult to tolerate, especially in the lower jaw where there is limited surface area. An upper denture covers the palate, limiting the ability to taste. Partial dentures are supported by natural teeth using metal clasps to stay in place. They may increase the risk of decay in natural teeth. Dentures can rub on gums causing pressure sores and cause jawbone shrinkage over time.

Failed dental restorations

Extensive dental restorations can increase the risk of teeth failing over time. Unfortunately, once teeth have been heavily filled, there is a risk that they will continue to deteriorate



Prices

The cost of All-On-4® treatment varies according to your clinical needs however, as an estimate, the price can range from \$20,000 to \$30,000 per arch, depending on the complexity of your case and whether additional implants or longer implants are required to achieve the desired outcome.

Our single-stage approach to All-On-4® teeth involves fitting you with a strong titanium-reinforced acrylic bridge within just a few days of surgery. Unlike full acrylic bridges which are temporary and require you to purchase a replacement bridge within three to six months, our bridges last much longer and may not need to be replaced for many years. They can also be repaired more successfully than full acrylic bridges.

Our approach also promotes better healing of implants and is more economical because it avoids the added expense of a second bridge within the first year of surgery.



Treatment considerations

Dental implants are a lifelong investment in your health. It's important to consider everything that factors into treatment value. Dental implants are permanent and irreversible and the dental team you choose will inevitably affect your treatment outcome.

We recommend checking these trust factors when choosing your surgeon:

- Dr Norcross is a skilled surgeon with over a decade of experience and training in advanced techniques of All-On-4® surgery.
- We are a recognised All-On-4® Centre of Excellence which demonstrates our history of performing All-On-4® procedures with success.
- We use genuine Nobel BioCare products, a clinicallyproven implant system with success rates up to 98%.
- We design high-quality acrylic teeth over a milled titanium bar for superior strength and durability.
- Our single-stage approach to All-On-4® teeth offers an economical and long-lasting solution.
- Our highly experienced dental technician has designed thousands of bridges over two decades.
- We use advanced technology to digitally plan your surgery.
- You can choose to have surgery under sedation at the clinic or under general anaesthesia in day surgery.
- You are guided throughout the entire journey by our dedicated treatment coordinator who can also assist with finance options.



Sedation options

All-On-4® surgery is typically performed under general anaesthesia or sedation. General anaesthesia and sedation can incur additional expenses but are not compulsory. Depending on how comfortable you are receiving dental treatment while awake, it may be possible to complete treatment under local anaesthesia.

If you have private health insurance, treatment under general anaesthesia in hospital may be covered, however a hospital excess and anaesthetist gap fees may apply.

If you do not have private health insurance, you may choose to have surgery at the clinic under oral sedation or IV sedation.

Oral sedation is inexpensive but is not recommended for very anxious clients. IV sedation also known as sleep dentistry, is administered by our qualified GP anaesthetist who charges a fee separate to the treatment estimate. This can range from \$3400 to \$5400 (minus a Medicare rebate) depending on the length of surgery and level of sedation required.



Client outcomes



























Contact us

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