

# NOW LIVE A METAL FREE LIFE



**Non Toxic**



**Plaque Resistant**



**Tooth-coloured**



**Success 92% - 97%**

Based on research collected by International Institute of Dental Research Pvt Ltd | [www.iidr.in](http://www.iidr.in)

## Royal Health Care Pvt. Ltd

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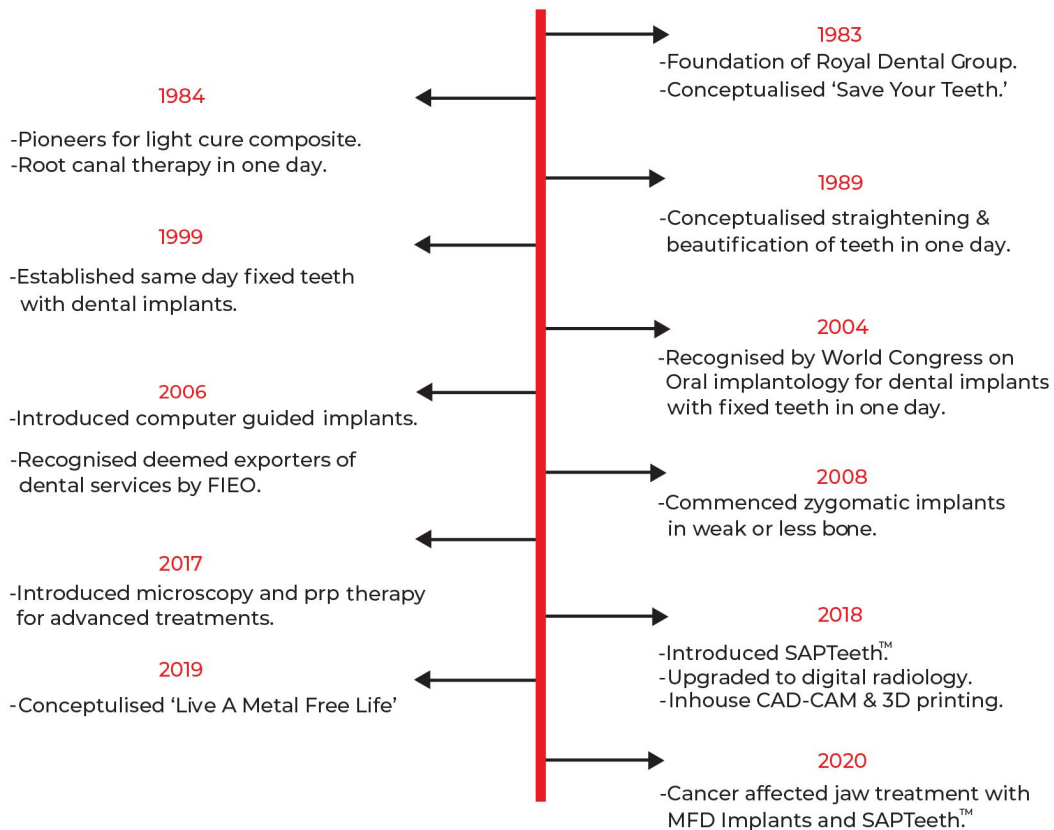
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## About Us

Royal Dental Clinics, established in the year 1983, by Late Dr. Arun Chamria, has been in clinical dentistry for over than 40+ years. The contribution of Dr. Arun Chamria has been an inspiration, not just to dentist but also towards mankind. Thus, we honour him by continuing the research he led. Better recognised as the Henry Ford of 'Implants in One Day,' Dr. Arun Chamria's contributions to dental innovations is astounding and a gift.

Succeeded by Dr Chirag Chamria, who primarily ensures that the patients get better than before results in terms of smile and overall health. Dr. Chirag has completed his advanced studies in "Cancer Surgery" from University Medical Centre of Netherlands, Europe. Dr Chamria is a specialist in Oral and Maxillofacial surgery with special interest in:

### Same Day Fixed Teeth with Dental Implants Straightening and Beautification of Teeth in One Day



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## Reshaping Scientific Success

### Metal Free materials for your Treatment is now Possible

The metal-free implant system also called as zirconia or ceramic based dental implants has proven its worth on both a clinical and scientific level. Published, science-based long term results spanning over more than 10+ years attest to its success. These findings prove that these implants can achieve results which are comparable to those obtained with titanium implants.

Studies have also investigated and demonstrated osteointegration and integration in peri-implant soft tissue i.e. gums. Particular emphasis was placed on the attachment of the peri-implant soft tissues to the implant surface. The histological observations are also confirmed in clinical use, They are attributed to the material and an ideal surface roughness.

The long-term results in terms of bone stability, red and white aesthetics and survival rate are conclusive.

Zirconia implants have enabled modern implantology to overcome the limitations of titanium, but also in terms of immunological response to the implant material.

### Why go Metal Free?

Zirconia based dental implants (MFD or Metal-free Dental Implant) has proven its value at both clinical and scientific level since its launch in 1987, Germany. Scientifically, sound, and long-term evidenced is being published since the past years, attesting to its success

Success Rate: 92% Over 10 year period

Yttrium stabilized zirconium dioxide. Contains Zirconium dioxide(94 to 99%), Yttrium oxide(4 to 6%), Hafnium oxide(1 to 2%), Aluminium oxide (0-0.5%)

Provided by manufacturer: DOC/PRD/16 Rev. 03, dt 16/06/2020. Compliances followed: ISO 13356-2015, ISO 13485:2016, ISO 6872:2015, ISO 7405:2018

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## WHY CHOOSE METAL-FREE DENTAL IMPLANTS?

The procedure of implant insertion into the jaw bone is at lower torque and therefore more comfortable for the patient even after the treatment as the heat is generated is lower. The adaptation of soft tissues around the implant is superior to titanium implants and therefore the gum pockets are less and cleaning the gums is easier. In persons with allergy to metal or after radiation therapy, MFD implants can be used as they are structurally more stable. Repeated failure of convention implants can be due to cellular sensitivity to titanium. The metal pieces can leach into the gums local inflammation in surrounding tissues whereas in MFD implants no leaching occurs.

## WHY CHOOSE ROYAL DENTAL FOR MFD IMPLANTS?

- ✓ Supports same day fixed teeth with dental implants.
- ✓ Long term survival rate worldwide is about 92% for 10-year
- ✓ Can be used in single tooth teeth replacement to full arch replacements.
- ✓ Can be used with SAPTeeth or other shock absorbable based fixed prosthesis.
- ✓ Titanium shows wear with fluorides whereas MFD implant don't.

## SPECIFICATIONS OF METAL-FREE DENTAL IMPLANTS

- ✓ Bone loss is less than 1 mm in 10 year period.
- ✓ No reported toxicity yet.
- ✓ Structurally can withstand forces about 3x that of natural teeth.
- ✓ Ageing is similar to conventional implants.
- ✓ Twice as strong as titanium material.
- ✓ Stimulates blood flow in the surrounding tissue.
- ✓ Bone to implant surface contact was found to be 1.5 x higher in MFD vs titanium implants.

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## FEATURES OF METAL FREE IMPLANT

### Versatile

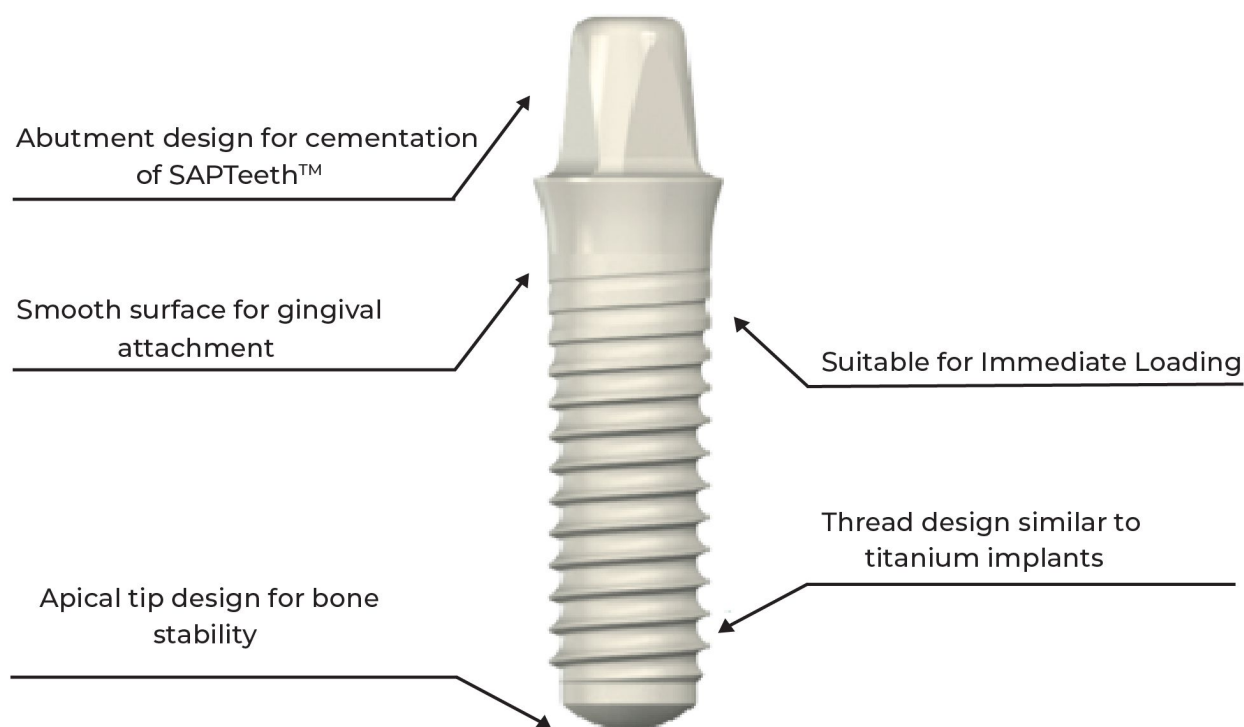
Suitable even for individuals with gum diseases, or for even medically compromised. Also suitable for cancer affected jaw teeth replacements, including single or multiple missing teeth. The SAPTeeth can be placed according to the immediate loading protocols. And, the surgery is most of the time flapless and without stitches

### Reliable

Offers greater plaque resistance, with established protocols similar to that of titanium implants. MFD implant simulates bone growth, minimises inflammation and is structurally stable. Their average fracture resistance is about 3x of natural teeth.

### Clean

Zirconia material does not conduct heat and are plaque resistant. As there is no leaching of zirconia, therefore no reported toxicity is present. Fluoride therapy for keeping health of natural teeth is possible.



Ref: Standlinger B. et al: Comparison of zirconia and titanium implants after a short healing period. A pilot study in minipigs; International Journal of Oral Maxillofacial Surgery 2010; 39; 585. Amberger E et al: Long term results of one piece zirconia implants for single tooth restoration; Pip 2018, 2 pp. 12-16

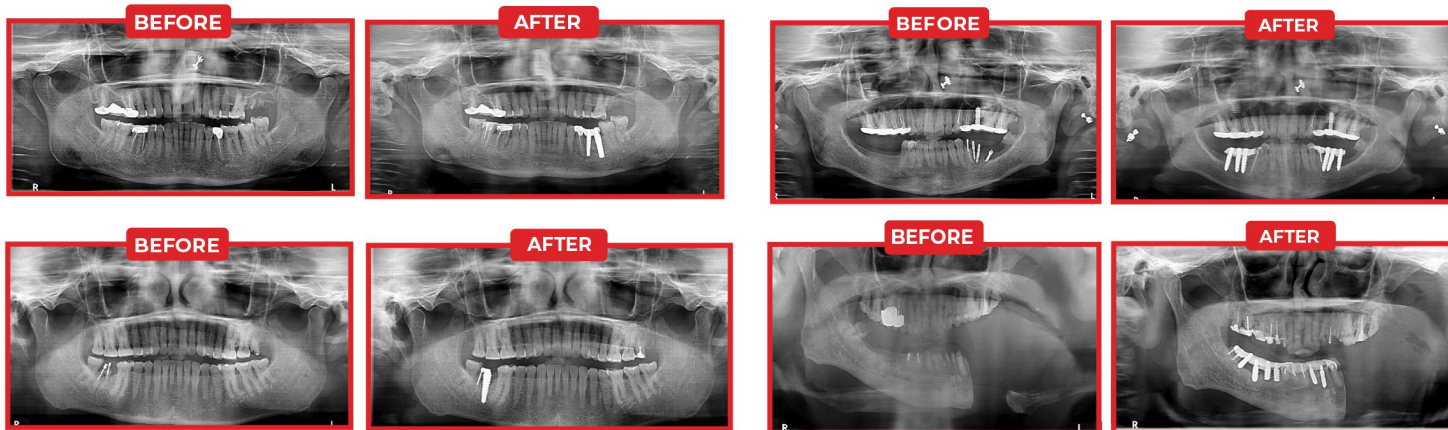
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## CASE STUDY MFD IMPLANT



**Patient:**

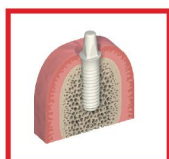
60-year old, male, diagnosed with Oral Cancer and operated for the same in 2013.

**Surgical Solution:**

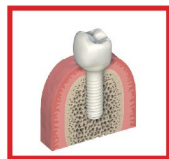
Titanium implants were removed during Surgery, post which Zirconia based implants were placed.

**Restorative Solution:**

PEEK framework with SAPT.HIPC crowns restored.



**Surgical Restoration**



**Restorative Solution**



**Esthetics**

- > High-end esthetic restorations thanks to Ivory colored natural ceramic material.
- > In general, more favorable soft tissue attachment around ceramic than around titanium, with blood circulation similar to that around natural tooth.



**Innovative**

- > A recent survey conducted in Europe with more than 250 participants showed that more patients would prefer a ceramic implant over a titanium implant even when this means higher treatment costs.
- > Suitable for guided surgery and same day dentistry.



**Quality**

- > High-performance zirconia ceramic (Y-TZP) with higher fatigue strength than grade V titanium implants.
- > Proof test in which every single MFD Implant is tested mechanically before patient use.
- > Excellent clinical performance.



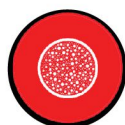
**ESTHETICS**

Favourable soft tissue Results



**PROVEN QUALITY**

Higher performance of Zirconia



**SURFACE TEXTURE**

Great Osseointegration features



**METAL FREE**

A metal free alternative to titanium implants



**INNOVATIVE**

A new system that helps you

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## FREQUENTLY ASKED QUESTIONS

### Are you susceptible to periodontitis?

If yes, then MFD implants are the right choice for you! The gums adapt excellently, meaning less plaque accumulation and therefore periodontitis can be avoided. Best suited for patients with gum disease, oral cancer, and need for excellent aesthetics.

### Are Implants expensive?

Zirconia implants can be more expensive than titanium for tooth replacement. Studies have shown individuals are more likely to choose MFD implants vs conventional implants

### Are MFD Implant successful?

Zirconia isn't a metal, so it doesn't conduct heat. This is better for your gums, especially when you are healing post surgery.

### Can dental implants be done without metal?

A zirconia tooth implant is a non-metal alternative to traditional titanium dental implants. Instead of metal, zirconia offers a ceramic choice that is more natural-looking and just as strong and durable as conventional implants. These implants can be used in the same way as titanium implants

### Are zirconia implants more expensive?

Ceramic implants can be more expensive than titanium when it comes to tooth replacement.

### What type of dental implant is best?

Since the 1960s, implants made from titanium have become the standard and enjoy long-term success rates of about 95%. But zirconia implants are emerging as an alternative to conventional titanium implants due to their biocompatibility, soft-tissue.

### Are zirconia implants safe?

Yes, they are. They have been CE approved in Europe for more than 16 years and US FDA approved for over 14 years. response, and aesthetics.

### Can you feel the taste of zirconia implant?

Due to corrosion of titanium based implant, a slight metallic taste can be felt in the mouth. Whereas in zirconia there is no corrosion and therefore it is tasteless.

### Do zirconia implants heal faster?

Zirconia isn't a metal, so it doesn't conduct heat. This is better for your gums., especially when you are healing.

Zirconia Dental Implants: A Literature Review by Zeynep Ozkurt, DDS, PhD Et al, DOI: 10.1563/A ID-JOIDD-09-00079A Clinical and Radiographic Evaluation of Zirconia Dental Implants: 10 Year Follow-up by Andrea Enrico Borgonovo, Susanna Ferraria et al Immediate Restoration of Single piece zirconia implants, A prospective case series – long term results after 11 years of clinical function by Elisabeth Steyer et al. Scientific trends in clinical research on zirconia dental implants: A bibliometric review by Felice Lorusso et al Clinical performance comparing titanium and titanium zirconium or zirconia dental implants: A systematic review of randomized controlled trials by Paulo R E Fernandes et al

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## NOW YOU ARE READY FOR THE TREATMENT!



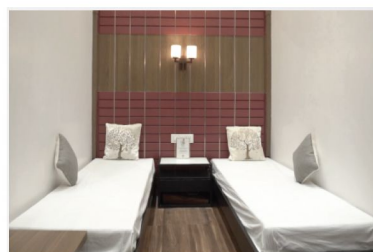
Upon your request we shall proceed with the plans discussed and agreed by you. Impression of single jaw or both upper and lower jaws may be taken. Can be used in single tooth teeth replacement to full arch replacements.



Immediately within 2-5 minutes your model preparation would begin and in about 30 minutes your teeth model would be ready. Thereafter, your model would be scanned and a computer image of the model would be fed into the CAD machine for your digital teeth design. In few cases, the impression may directly be scanned and sent for CAD designing.



Within about 30-60 minutes your design would be ready and sent to the CAM machine. The CAM Machine would prepare your final teeth in about 10-15 min per tooth. Simultaneously your upper and lower jaw teeth can be prepared in multiple CAM machines which would reduce the net time to 50%.



During this phase of your teeth preparation you would be given an exclusive separate room wherein you would be offered refreshments/meals and on request you can also get internet access. Also, during this phase the operation theatre would be allotted and all preparations would be done to carry out your chosen surgery/treatment.



Even though the attendant knows of your allergies, you should once again inform the attending about any allergies before taking any pre-surgical medicines. Therefore; the area to be operated is locally anaesthetised so that there is numbness during surgery/operation

“ All under one roof, the centre is an example in its kind for high class treatment ”

**P.B\* - Dental Implants**

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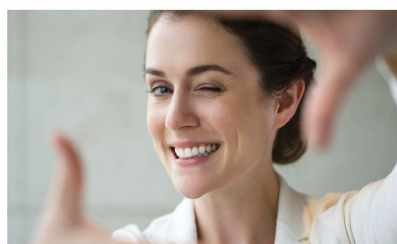


If you are going for cosmetic treatment; depending upon the severity of correction it may become necessary to desensitize your teeth by pulp therapy. This would help prevent any post-operative sensitivity or pain.

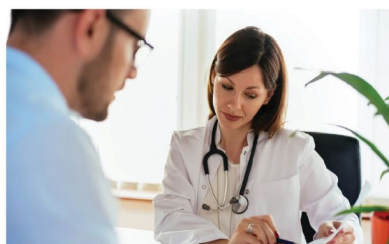
In most cases of cosmetic treatment, your tooth is reshaped as required, so as to give you optimal cosmetic results. The results of the treatment are irreversible. If the damage is severe, then post and core treatment or an extraction may be required.



If you are going for implant treatment; in most cases depending upon the condition of your gums, implants are inserted by a technique called "Flapless Surgery", which does not require cutting of gums and suturing. This is also one of the major success factors of same day loading of dental implants. In a few cases, doctors may advise conscious sedation as per the patient's health condition and choice of treatment.



In most cases after the operation, your final restoration is fixed on the same day of the next day. In some cases the fixation may be deferred to some other day. At this stage, you are given complete instructions with prescription in writing and the attending dental surgeon will explain you of the same. You are at liberty to ask any question that may arise in your mind and understand the instructions properly.



Thereafter you will be given instructions as to the optimum use of your teeth and the maintenance which would be required. Usual maintenance as required for natural teeth in most patients suffice. However additional care would be required if there are any habits like pan, supari, tobacco, alcohol, smoking etc or parafunctional habits like bruxism etc.

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## ROYAL PATIENT SAFETY

“ Trust Us With Your Safety, Trust Your Smile With Us”

### INFRASTRUCTURE CAPABILITY

- 12+ Dental Chair in Separate Rooms
- In-house Laboratory with Digital Workflow
- Multiple Patient Waiting Pods with lavatory

### ADVANCED TECHNOLOGY

- No Need To Wall, Multiple Operatory Rooms
- CBCT Scanning Facility with CAD/CAM, 3D Printing
- Same Day Treatment Protocol

### STERILIZATION

- Dedicated Sterilization Room
- Surface Disinfection with Hygiene

### WORKFORCE

- Full Time In-House Doctors
- Team Maintaining Overall Safety & Hygiene

“What patients say about our service”








“ Beautiful Ambience, very good environment, very good staff, well experienced and qualified doctors. At the end as a patient I am satisfied with the whole treatment **S.R\* - Dental Implants** ”

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	Titanium Dental Implant	Zirconia Dental Implant
<b>Material Group</b>	Metallic	Ceramic or Non-Metallic
 <b>Material</b>	Titanium alloy - Titanium, Aluminium, Vanadium, Carbon	Zirconium with Ytrria, Oxygen
 <b>Allergy</b>	Rare; but may develop	Not known yet
 <b>Corrosion</b>	Can corrode over long use	Corrosion resistant
 <b>Bone Integration</b>	Same as Zirconia	Same as Titanium
 <b>Hygiene</b>	Plaque build-up is present	Plaque resistant
 <b>Taste alteration</b>	Metallic taste	No alterations in taste
 <b>Healing Time</b>	Heat conduction therefore slower healing time	No heat conduction therefore faster healing time
 <b>Gum Healing</b>	Inert	Conductive
 <b>Aesthetics</b>	Silver shadow is present	White in color/ tooth coloured
 <b>Customisation</b>	Possible	Possible
 <b>Study</b>	30 years	15 years
 <b>Success rate</b>	90 to 95%	92 to 97%
 <b>Cost</b>	\$	\$\$
 <b>Density</b>	4.5	6.05
 <b>Hardness</b>	250	1250
 <b>Strength</b>	680 mpa	1200 mpa
 <b>Elasticity</b>	110000 mpa	200000 mpa
 <b>Preference</b>	10% of 250 people	25% of 250 people

**\*Based on research gathered and collected by International Institute of Dental Research Pvt Ltd**

\*This is as per research conducted by International Institute Of Dental Research Pvt Ltd based on its own experience and other researches all over the world.

\*Images shared above are only for reference purposes.

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