

ZERAMEX

naturally, white implants

Training Manual  
for placement and restoration of a two-piece  
**Zirconia Implant**  
by ZERAMEX XT

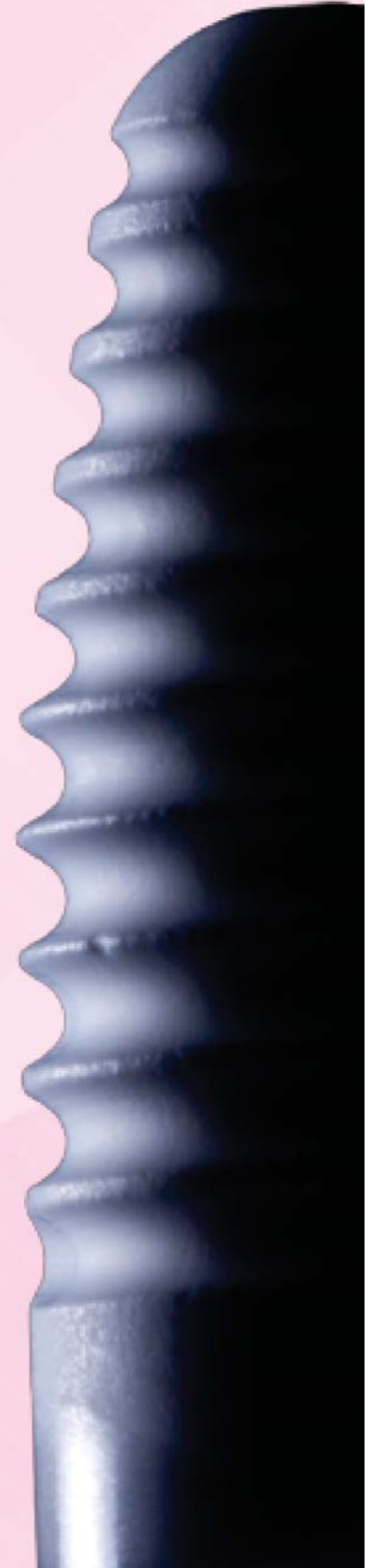
Dr. Virgil Mongalo  
Michael Foley





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# Introduction

We all know that titanium dental implants are enormously successful as tooth replacement anchor. This was the work of Professor Per-Ingvar Branemark through his ground breaking research on the titanium optic chamber on rabbits . In 1965 Dr. Branemark performed in Sweden the first surgery of titanium implants on a human and as they say “the rest is history”.

Or is it?

In 1960-1973 a scientist from Switzerland working with a team of researchers in Paris worked on citotoxicology investigations on animals, this research concluded the hypothesis that zirconia could support the growth of blood vessels and bone cells. This scientist is Professor Sam Sandhaus and he is considered the founder of modern metal-free dental implantology. The first zirconia implants placed on patients was recorded in 2005 in Europe. A few years later the FDA approved the first zirconia implant in the United States of America.

Zirconium is #40 transition element in the periodic table, when is combined with oxygen forms zirconium oxide also known as zirconia, this is now a strong and biocompatible ceramic with many medical and dental applications. Zirconia fuses to the mandible in similar way as titanium does.

Zirconia implants provide metal-free solution to patients with metal allergies, metal sensitivities, wellness and holistic life styles, excellent material for those with thin bio-type, high smile line and high esthetic demands.

Let us expand our minds and allow zirconia implants to be introduced to our private patients that are seeking for solutions to their specific problem.

Virgil Mongalo DMD.



# 7 Indications for Selecting Ceramic Implants

1. Patients with allergies to metals
2. Patients with personal inclination towards wellness life choices
3. Patients with holistic life style
4. Patients suffering from auto immune diseases
5. Patients with high esthetic demands
6. Patients with thin bio-type
7. Patients with high smile line



## The following case illustrates 5 important components of placement and restoration of two-piece Zeramex XT implants:

- Step 1: Pre-surgical 3D planning.
- Step 2: Pre-prosthetic 3D planning.
- Step 3: Surgical steps from incision to implant placement.
- Step 4: Table of insertion torque value.
- Step 5: Prosthetic components and final restoration.

