



**SILVERAID**

TOTAL IMPLANT CARE



**Silver**Plug®

PATIENT INFORMATION



**SilverPlug**<sup>®</sup>  
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# SilverPlug<sup>®</sup>

the ultimate innovation  
for dental implant safety

Dental implants are made of two components: the titanium implant that is placed into the bone and the abutment that is mounted onto the implant.

The connection between the two components is secured by a screw. Crowns or bridges can be cemented over the abutments or can be fixated to the abutment utilizing the same screw.

In both cases, the abutment access tunnel after screw fixation needs to be filled with a material prior to sealing the access hole from the oral environment with composite or cement.

SilverPlug<sup>®</sup> is the ONLY worldwide patented, registered and certified specific sealant for the abutment tunnel, made of a polymer containing SILVER ZEOLITE, a natural antibacterial.

SilverPlug<sup>®</sup> helps to prevent one of the main problems relating to dental implants: internal bacterial proliferation, which is widely recognized as a causative cofactor for the development peri-implant diseases like Mucositis and Peri-implantitis.



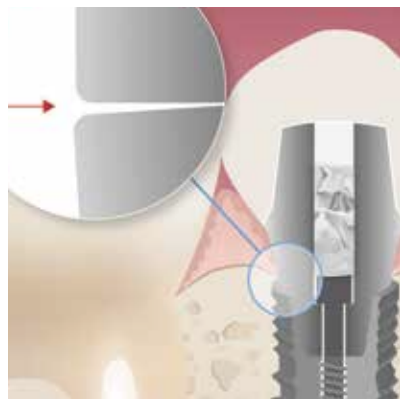
# Safety of dental implants

A variety of studies demonstrate that the implant-abutment connection of any two-piece dental implant depicts a complex micro-mechanical behavior:

- a micro-gap is always present at the implant-abutment interface.
- The width of the micro-gap varies when external mechanical loads are applied (chewing)

When functionally loaded, the implant/abutment interface is subjected to mechanical micro-movements, which generate a pump-like suction effect, drawing saliva from the mouth through the micro-gap into the implant and the abutment tunnel. Bacteria within the saliva flow inside the implant and the abutment tunnel. Whilst aerobic bacteria may not survive, anaerobic bacteria can survive and multiply.

Before the invention of SilverPlug®, dentists used non-certified materials to fill the abutment screw tunnel such as provisional cement, cotton pellets, gutta percha, Teflon or wax. These materials are not antibacterial and can create the perfect conditions for the proliferation of anaerobic bacteria inside the implant/abutment screw tunnel creating the ideal environment for the potential development of Mucositis and, eventually, Peri-implantitis.



# What is Peri-implantitis?

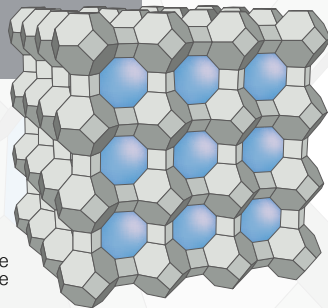
80% of "healthy" implants present with Mucositis: inflamed soft tissues around the abutment due to an adverse host response from the continued presence of bacteria. 20% of implants, combined with low adherence to a protocol of oral hygiene at home, progress to the development of Peri-implantitis within the first 7 years of loading: soft tissue and bone loss, eventually resulting in a total implant loss.

# Why Silver

## How does Silver Zeolite work?

The silver ion ( $\text{Ag}^+$ ) is considered to be an effective antibacterial agent with a wide spectrum of benefits due to its unique character, the absence of contraindications, and its wide ranging applications : topical gels, antibiotics and water sanitization from ancient Egyptians in cisterns to NASA on spacecrafts.

In SilverPlug®, the carrier containing the  $\text{Ag}^+$  ion is a nano-porous zeolite (sodium aluminosilicate). The Silver Zeolite has the function to preserve the seal, maintaining the microenvironment of the device by reducing the proliferation of bacteria. No silver is released into the body.



Nanoporous structure of Silver Zeolite

## What is SilverPlug® ?

SilverPlug® is a medical device designed and certified to fill the abutment screw tunnel, made of a polymer containing SILVER ZEOLITE, a natural antibacterial. It does not release any silver in the body.

SilverPlug® significantly reduces the number of anaerobic bacteria inside the abutment tunnel, prevents the surrounding soft tissue from inflammatory processes and helps to reduce the risk of Mucositis/ Peri-implantitis development.



If you **already have an implant** and would like to replace **previous non certified sealing** material within your prosthetic restoration and maintenance, **replacement with SilverPlug<sup>®</sup> is always possible.**

Ask your Dentist for **SilverPlug<sup>®</sup>**



Dental implant treatments are expensive and time consuming. The **risk of soft tissue inflammation** can be drastically reduced when sealing your prosthetic restoration with **SilverPlug<sup>®</sup>**.

## Why **SilverPlug<sup>®</sup>** ?

SilverPlug<sup>®</sup> is easy to place and can make a difference to the long term health of your implant. It reduces the risk of insurgence of peri-implant diseases and you can enjoy a healthy smile for a lifetime.



# Why should I pay for **SilverPlug**<sup>®</sup> ?

SilverPlug<sup>®</sup> is a very small and smart investment, actively contributing to the long term success of your dental implant. Do not miss out on this innovation that makes a difference!



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If you pay for dental hygienist care, why not invest in the protection of your dental implant from the main cause of peri-implantitis?

Would you buy a car without safety features like ABS? Why taking the risk on your dental implants?


SilverPlug<sup>®</sup> is a CE Marked and certified Medical Device, developed from on-field experience and research in Italy and the EU.

SilverPlug<sup>®</sup> fits the size of the screw tunnel of any implant brand.

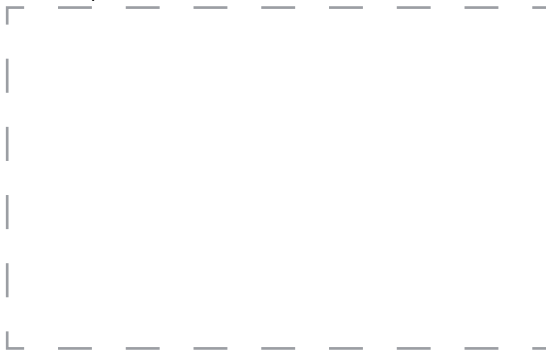
Ask your Dentist for SilverPlug<sup>®</sup> within your Implant maintenance protocol.



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Seal of practice



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**WARNING:** SILVERPUG® is intended to be used only by medical personnel.