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## **Corrosion and Degradation of Implant Materials: 2nd ...**

The Second Symposium on Corrosion and Degradation of Implant Materials was held in Louisville, Kentucky, 9-10 May 1983. The symposium was sponsored by ASTM Committees F-4 on Medical and Surgical Materials and

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Devices and G-1 on Corrosion of Metals.  
Anna C. Fraker, National Bureau of Standards,

## **CORROSION AND - ASTM International**

In situ degradation of a metallic implant is undesirable because it alters the structural integrity of the implant. The



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issue of corrosion is not limited to a local problem because the particles...

## **(PDF) The issue of corrosion in dental implants: A review**

Titanium (Ti) dominates as the material of choice for dental implant systems. Recently, titanium-zirconium alloy (TiZr) and zirconia ( $ZrO_2$ ) have emerged as

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alternative materials due to higher mechanical strength and lower corrosion susceptibility. Oral pathogenic bacteria can colonize Ti surfaces, leading to surface degradation, which has yet to be investigated on TiZr and ZrO<sub>2</sub>.

## **Evaluation of oral microbial corrosion on the surface ...**

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Degradation of Dental Implants.

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## Materials, Second Symposium **Degradation of Implant Materials | Noam Eliaz | Springer**

The degradation of the implant due to the corrosion and wear processes associated with the inflammatory response may lead to loss of mechanical stability and the long-term health of the peri-implant tissues. The release of metal ions, as a consequence of the

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implant degradation, can cause damage in the peri-implant tissue.

## **Degradation of titanium-based implants - ScienceDirect**

The AD material was more resistant to corrosion, while localized corrosion and pitting was seen on the EP surface. Interestingly, the increased variability

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from localized corrosion due to the surface film character translated directly to the in vivo performance, where 100% of the AD implants but only 44% of the EP implants met the ...

## **In Vitro Corrosion and in Vivo Response to Zinc Implants ...**

Corrosion can be defined as the graded

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degradation of materials by chemical or electrochemical attack. This phenomenon is of concern particularly when metallic implants, metallic/silver fillings, or orthodontic appliances are placed in the hostile electrolytic environment provided by the human mouth.

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## **Risks of Corrosion With Titanium Dental Implants - Dental ...**

In a search for degradable bone implants with high primary stability, a new category of implant materials made from corroding metals was found. Degradable metal implants made of magnesium alloys were introduced into orthopaedic and trauma surgery in the first half of



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the last century , . Screws and plates made of magnesium alloys provided stable implant materials that degraded in vivo, eliminating the need for a second operation for implant removal.

## **In vivo corrosion of four magnesium alloys and the ...**

In view of the complex and dynamically

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changing physiological conditions inside the body of a human patient, the corrosion and degradation of implantable biomaterials is to be critically assessed....

## **Corrosion and Degradation of Implantable Biomaterials ...**

Optical microscopy was used to assess

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qualitative degradation and score Ti-based implants based on degree of surface damage while electrochemical testing quantified corrosion behavior. Analysis of variance followed by post-hoc Tukey test was used to statistically compare quantitative results ( $\alpha = 0.05$ ).

## **Evaluation of Oral Microbial**

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## **Corrosion on the Surface ...**

Magnesium (Mg) and its alloys are considered promising biodegradable implant materials because of their strength and natural degradation in the human body. However, the high corrosion rate of pure Mg in the physiological environment leads to rapid degradation before adequate bone

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healing.

## **Mechanical, corrosion, and biocompatibility properties of ...**

The outcomes of degradation are discussed in detail. Different failure mechanisms such as corrosion, fatigue, wear, infection and calcification are reviewed, together with experimental

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techniques for monitoring them. Procedures for implant retrieval and failure analysis are presented.

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