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PMMA cements are used to anchor artificial joints. They fill up the free space between the prosthesis and bone and constitute a very important elastic zone. Owing to their optimal rigidity the cement can evenly buffer the forces acting against the bone.

## **PMMA Cements | Klaus-Dieter Kühn | Springer**

polymerization. Novel PMMA cements were formulated containing AgNWs (0 and 1% w/w) and CS or CSMCC at various concentrations (0, 10, 20, and 30% w/w), testing two different ratios of powder and MMA (P/L). Mechanical, thermal, antibacterial, and cytotoxic

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properties of the resulting composite cements were tested. Cements with concentrations

## **Antibacterial PMMA Composite Cements with Tunable Thermal ...**

Bone cements consist of a powder (i.e., pre-polymerized PMMA and or PMMA or MMA copolymer beads and or amorphous powder, radiopacifier, initiator) and a liquid (MMA monomer, stabilizer, inhibitor). The two components are mixed and a free radical polymerization occurs of the monomer when the initiator is mixed with the accelerator.

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## **Bone cement - Wikipedia**

Novel PMMA cements were formulated containing AgNWs (0 and 1% w/w) and CS or CSMCC at various concentrations (0, 10, 20, and 30% w/w), testing two different ratios of powder and MMA (P/L). Mechanical, thermal, antibacterial, and cytotoxic properties of the resulting composite cements were tested.

## **Antibacterial PMMA Composite Cements with Tunable Thermal ...**

Modified PMMA-Based Bone Cements PMMA bone cement (Palacos, Heraeus, Wehrheim, Germany) was modified with bioactive glass or copper

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doped tricalcium phosphate particles. Particles were dispersed in the solid PMMA phase as previously described [ 32 ].

### **Polymers | Free Full-Text | Modification of PMMA Cements ...**

Leader Biomedical's C-ment ® and Genta C-ment ® PMMA bone cements are available with and without added antibiotics (Gentamicin) and in two different viscosities to match surgeon preferences. All our cements comply with or even exceed the International ISO 5833 Standard for PMMA bone cements. Marketed in more than 60 countries since 2000

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**C-ment PMMA bone cement - leader biomedical - joint care ...**

PMMA bone cements are primarily used for the fixation of joint prostheses. In the fixation of joint replacement, the self-curing cement fills the free space between the prosthesis and the bone, and constitutes a very important interface. With thousands of studies, the understanding of the properties and use of bone cement has increased.

**Bone cement fixation: acrylic cements - ScienceDirect**

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PMMA-based bone cements can be mixed with inorganic ceramics or bioactive glass to modulate curing kinetics and enforce mechanical properties. Antibiotics can be loaded within the cement to reduce the risk for prosthesis-related infection.

## **Poly(methyl Methacrylate) - an overview | ScienceDirect Topics**

With PMMA bone cements, vacancies may be created by entrapped air during mixing and by leaching monomer. Water molecules are also small enough to diffuse into spaces within radio- pacifier agglomerations and between the

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polymer molecules.

## **Ageing and moisture uptake in polymethyl methacrylate ...**

Poly(methyl methacrylate) (PMMA), also known as acrylic, or acrylic glass, as well as by the trade names Crylux, Plexiglas acrylic, Acrylite, Astariglas, Lucite, Perclax, and Perspex, among several others (), is a transparent thermoplastic often used in sheet form as a lightweight or shatter-resistant alternative to glass. The same material can be used as a casting resin or in inks and coatings ...

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## **Poly(methyl methacrylate) - Wikipedia**

Buy PMMA Cements: Up-to-Date Comparison of Physical and Chemical Properties of Commercial Materials 2013 by Klaus-Dieter Kühn (ISBN: 9783642415357) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

## **PMMA Cements: Up-to-Date Comparison of Physical and ...**

abstract = "PMMA-based cements are the most used bone cements in vertebroplasty and total hip arthroplasty. However, they present

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several drawbacks, including susceptibility to bacterial infection, monomer leakage toxicity, and high polymerization temperature, which can all lead to damage to the surrounding tissues and their failure.

## **Antibacterial PMMA composite cements with tunable thermal ...**

Abstract The use of PMMA bone cement has been a key factor in the advent of joint replacement as a surgical option.

## **The science of bone cement: a historical review**

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INTRODUCTION Our experience in PMMA bone cements is extensive. The long clinical heritage of our DePuy CMW™ bone cement product range has allowed us to evaluate and refine the product range over time. SMARTSET Bone Cements are the latest cements in the DePuy Synthes portfolio.

## **SMARTSET Bone Cements**

The effect of the radical polymerisation taking place during the hardening of the polymethyl methacrylate (PMMA) bone cements is known to cause bone necrosis through the relatively high exothermic reaction and the

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leaching of toxic non reacted monomers. The inflammatory response towards this class of cements has also been shown and ascribed mainly to the phagocytosis of the material particles ...

## **Effect of PMMA cement radical polymerisation on the ...**

PMMA cement has been proposed to cause thermal damage to bone due to its exothermic polymerization: collagen denatures with prolonged exposure to temperatures in excess of 56°C. 10 Thermal damage has been implicated as a factor in bone necrosis seen

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in TJA. 16 A number of studies have brought up the risk of thermal damage based on peak temperatures seen during polymerization in vitro, with ...

## **Acrylic bone cement in total joint arthroplasty: A review ...**

PMMA bone cement tends to leak during injection, which can lead to injury of the spinal nerves and spinal cord. Moreover, the mechanical strength of PMMA-augmented vertebral bodies is extraordinary and this high level of mechanical strength might predispose to adjacent vertebral fractures.

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## **Biomechanical evaluation of calcium phosphate-based ...**

Antibacterial PMMA composite cements with tunable thermal and mechanical properties By Arianna De Mori, Emanuela Di Gregorio, Alex Kao, Gianluca Tozzi, Eugen Barbu, Anita Sanghani-Kerai, Roger Draheim and Marta Roldo

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