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*Basic Study*

Role of fast-setting cements in arthroplasty: A comparative analysis of characteristics

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**Abstract**

*AIM*

To evaluate the behaviour of two fast-setting polymethylmethacrylate (PMMA) cements CMW® 2G and Palacos® fast R + G, as reference: standard-setting Palacos® R + G.

## Match Overview

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作者: JCJ Webb - 2007 - [被引用次数: 152](#) - [相关文章](#)

surgery. It has a central **role** in the success of total **joint replacement** and is also used in .... ment **analysis**. 19 In vitro studies have shown that the pro- duction of heat is ... and **setting** time of **cement**, 11 a cause for concern when con- sidering ... **characteristics** of PMMA are key to this success. .... **Comparative** in-vitro activity of.

### [Polymethylmethacrylate bone cements and additives: A review of the ...](#)

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作者: M Arora - 2013 - [被引用次数: 27](#) - [相关文章](#)

2013年4月18日 - This review explores the development of bone **cements**, the **role** of ... had more adaptable biological **characteristics**[4] and which he marketed ... A common complication of cemented **arthroplasty** is loosening of the cemented prosthesis. ... additives, like antibiotics, in **comparison** to those in powder form[14].

### [Effect of cementing technique and cement type on thermal necrosis in ...](#)

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作者: D Janssen - 2012 - [被引用次数: 14](#) - [相关文章](#)

2011年8月22日 - in Hip Resurfacing **Arthroplasty**—A Numerical Study ... Keywords: finite element **analysis**; bone **cement**; thermal necrosis; hip resurfacing ... The polymerization **characteristics** of three of these ..... while **faster setting cements** should be used for high ... case-specific **comparison** with the temperature meas-.

### [Acrylic bone cement in total joint arthroplasty: A review - Saleh - 2016 ...](#)

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2016年2月29日 - [Set citation alert](#) ... Acrylic bone **cement** has a variety of applications in orthopedic surgery. ... **role** bone **cement** plays in the success of total joint **arthroplasty** can ... of the mechanical properties related to bone **cement**, a **comparison** to ... in viscosity of PMMA **cement** is associated

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2013年12月15日 - The knowledge about the bone *cement* is of paramount *importance* ... Keywords: Bone *cement*, Joint *replacement*, Arthroplasty, Antibiotic, Viscosity ... Variations in humidity affect the *cement* handling *characteristics* and *setting* time. ... the *cement* viscosity increases, slowly at first, then later more *rapidly* (Fig ...

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surgery. It has a central *role* in the success of total joint *replacement* and is also used in ... It focuses on its mechanical and chemical *properties* and links these to its clinical ... The viscosity *rapidly* ... ment *analysis*.19 In vitro studies have shown that the pro- ... and *setting* time of *cement*,11 a cause for concern when con-



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Once the **cement** had cured, sagittal sections were prepared and **analyzed** for **cement** ... cementation of the tibial base plate during total knee **arthroplasty** (TKA). ... The **intrusion** depth of bone **cement** is thought to be a combined **function** of bone ... IN) typically have **faster** time to "dough" than other bone **cements** with lower ...

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ensuring a long-term success of the **arthroplasty**, as it influences the **cement** ... High viscosity **faster-setting cements** may significantly reduce operating room ...

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surgery. It has a central **role** in the success of total **joint replacement** and is also used in ... It focuses on its