# POLIMT (PMMA) Best Performance (POLIME)

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## Technology description

Introduction

The curettage of benign bone injuries or the development of metaphyseal fractures leads to the formation of bone defects, all of which must be filled with bone substitutes. Poly (methyl methacrylate) (PMMA) is the most widely used substitute in such cases, however, there has been some loosening of the cement for many years, which is related to the occurrence of osteoarthropathy.

A promising alternative to conventional PMMA is porous PMMA cement because porosity reduces the risk of necrosis and allows for osseointegration, while also having elasticity compatible with bone trabeculae.

Objective

The invention is composed of a PMMA porous bone cement production process, and has the advantages of stimulating bone reconstruction and preventing fracture. Such cement is easy to produce and can be molded in the operating room itself with low associated production costs.

Stage of development


## Application area

Bone substitutes.

## Institution

Universidade de São Paulo

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