

**RESTAURAÇÕES**

**MISTAS**

**OU**

**COMBINADAS**

# ASSOCIAÇÃO



## ALCANCE



## Chapter 3

# Development of Physical and Mechanical Testing

George Dickson

### PURPOSE OF PHYSICAL TESTING OF DENTAL MATERIALS

Some consideration should be given to the purpose of the physical testing of dental materials. Since the study of dental materials is an applied science, the purpose should be in some way related to improving dental health; for example, to promote the use of the most satisfactory available materials and the most effective techniques for their use, or to develop new materials and techniques which will result in better, more widespread or lower cost dental service.

At first thought, it might be assumed that the physical properties of dental restorative materials are measured to determine whether or not these properties are up to some known level of strength, hardness,



**CONHECIMENTO**

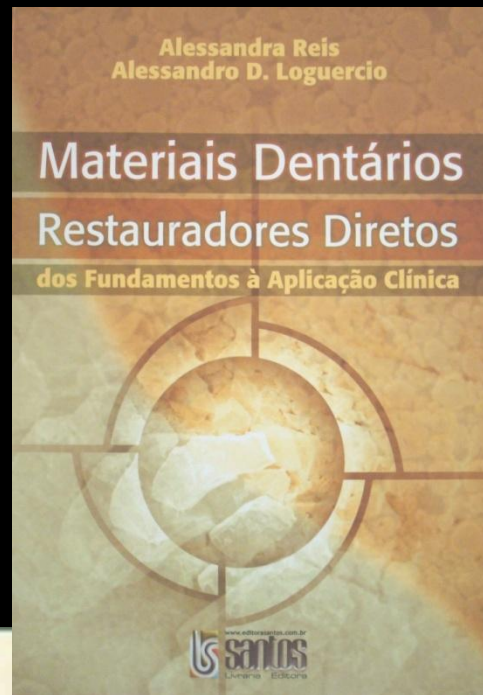
# **PROPRIEDADES GERAIS**











CAPÍTULO

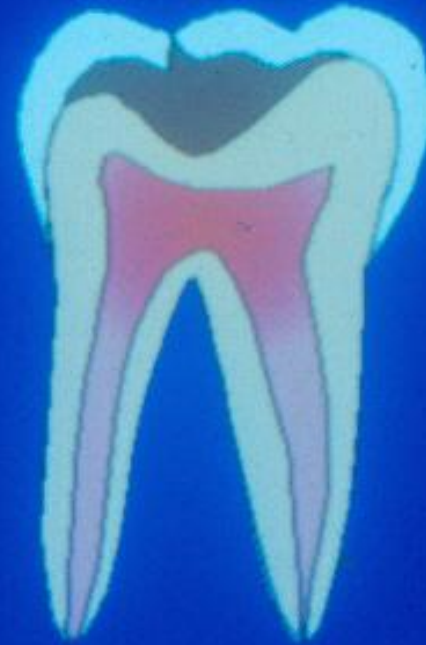
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## ASSOCIAÇÃO DE MATERIAIS

*Alessandro Dourado Loguercio*  
*Alessandra Reis*  
*Adair Luiz Stefanello Busato*  
*Leonardo Eloy Rodrigues Filho*

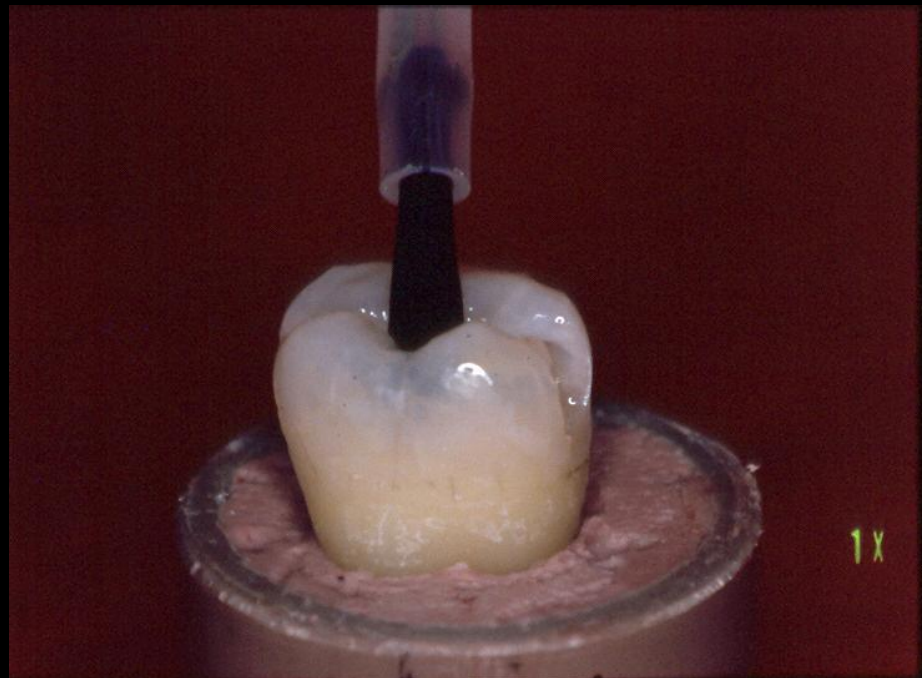
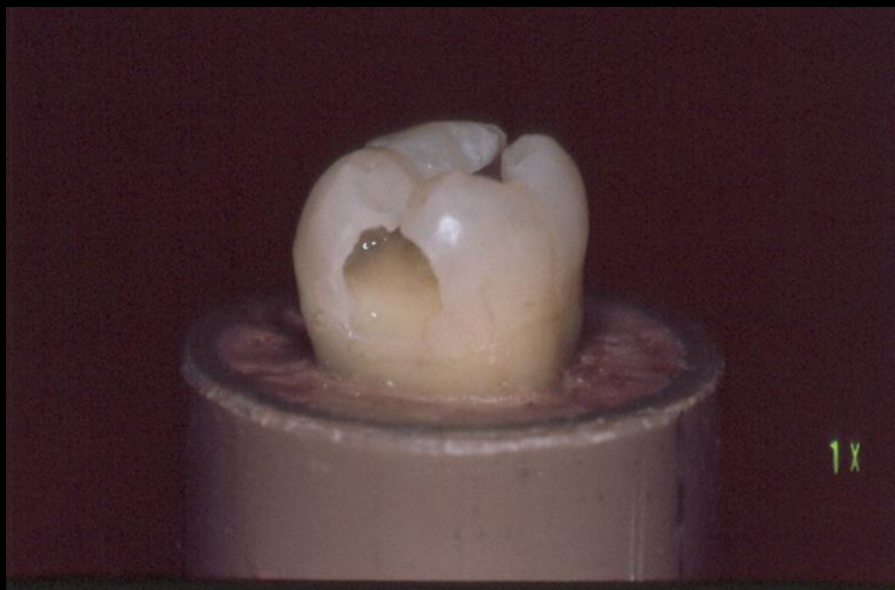


**Materiais Dentários - FOUSP**



**Materiais Dentários - FOUSP**

Rodrigues Filho LE, Muench A. Resistência à fratura de dentes com restaurações atípicas de diversos materiais. Rev Odont Univ São Paulo 1995; 9(4): 249-253.



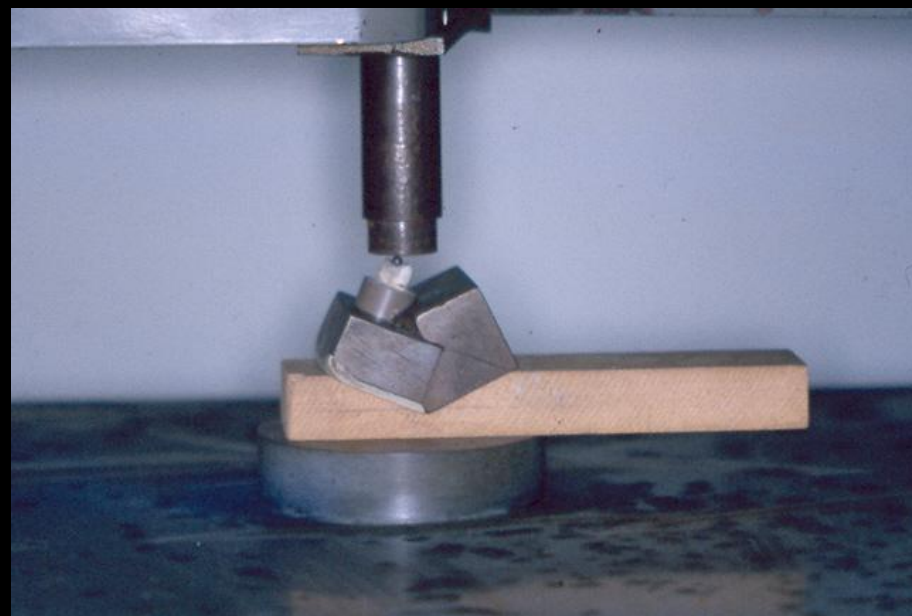
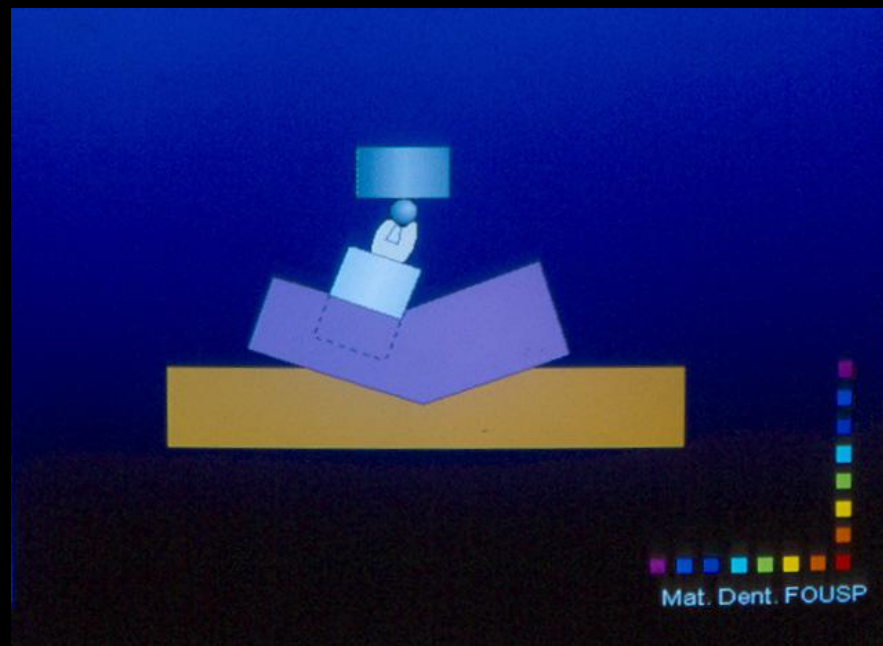


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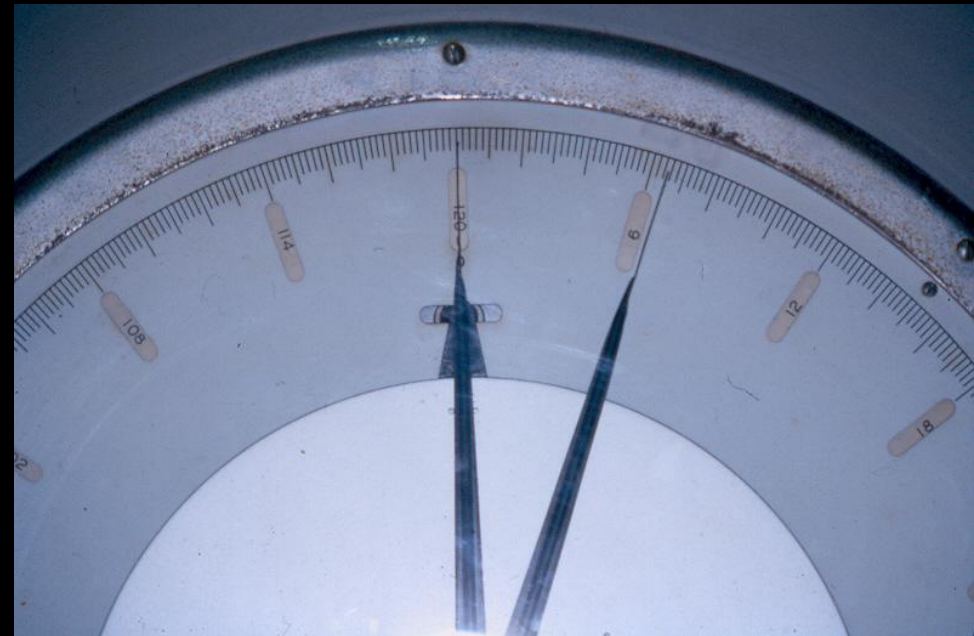






Materials Dentários - FOU SP

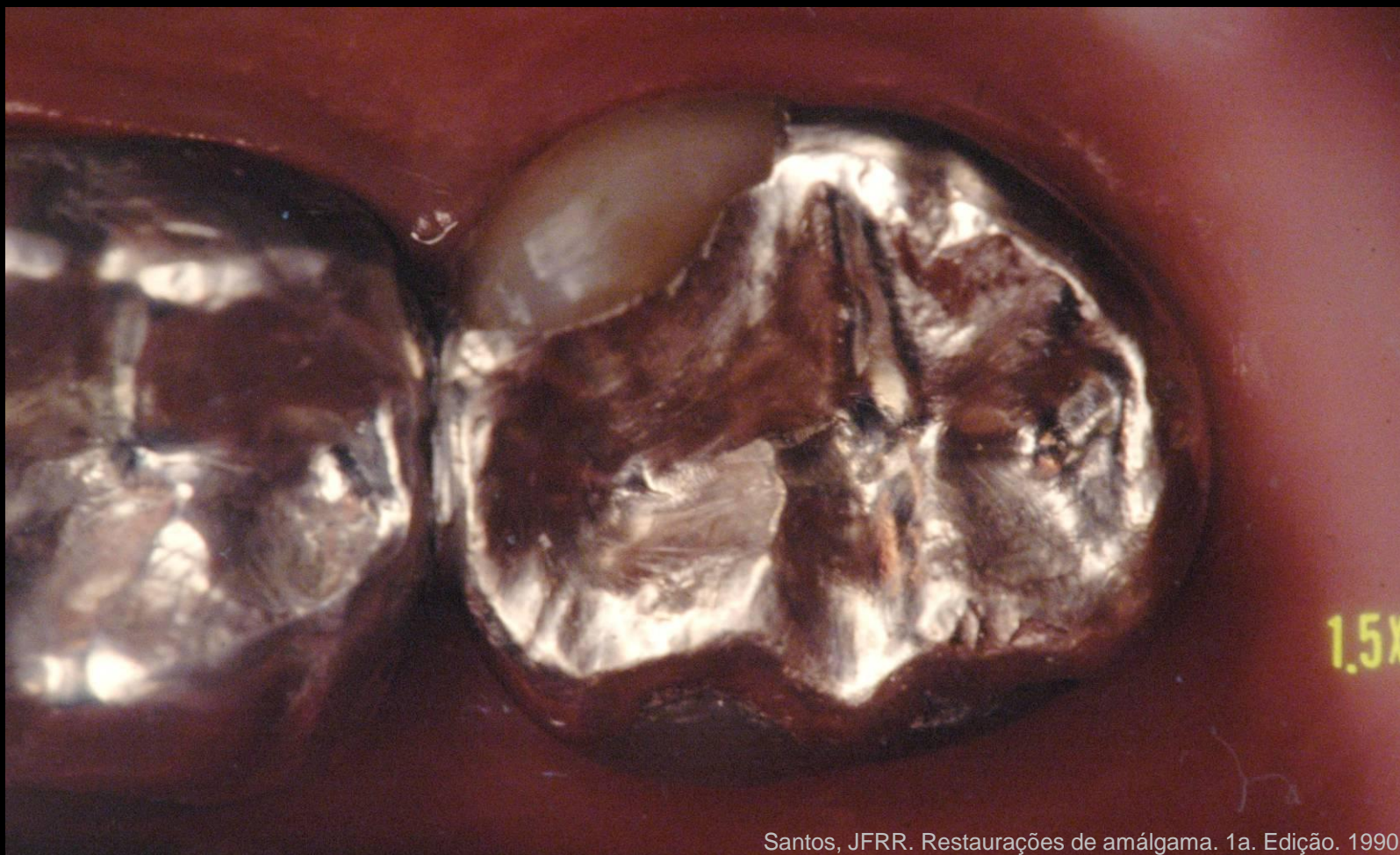
Montar novo grafico (dados da dissertação)



A photograph of a forest scene. In the foreground, there are several large, dark green ferns on the left and some brown, dried-out vegetation on the right. The ground is covered with dry leaves and twigs. In the background, there are several trees with bare, light-colored branches, suggesting a late autumn or winter setting. The lighting is somewhat dim, with some highlights on the tree trunks and branches. Overlaid on the center of the image is the word "AMALGAMPIN" in a bold, yellow, sans-serif font, enclosed in quotation marks.

**“AMALGAMPIN”**





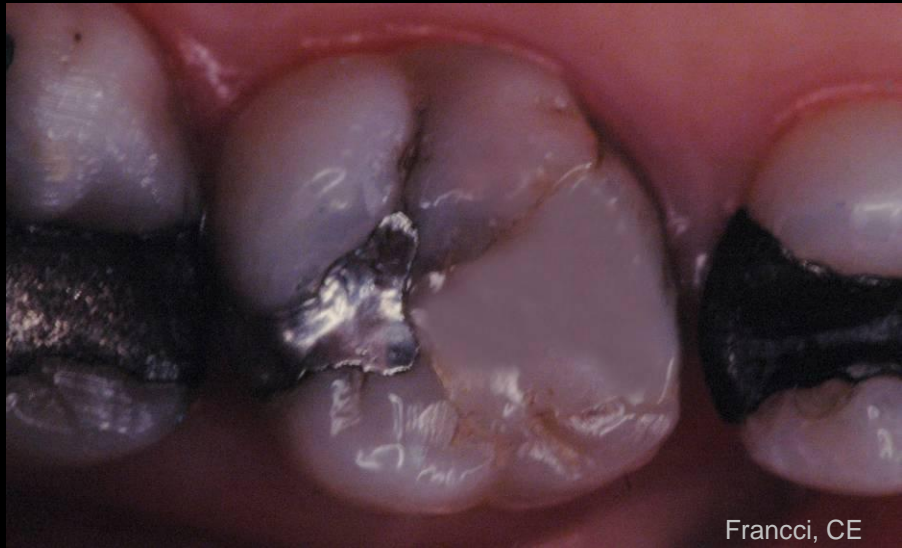
Santos, JFRR. Restaurações de amálgama. 1a. Edição. 1990



**“GAP”**

**DEPTO. MATERIAIS DENTÁRIOS FOU SP**



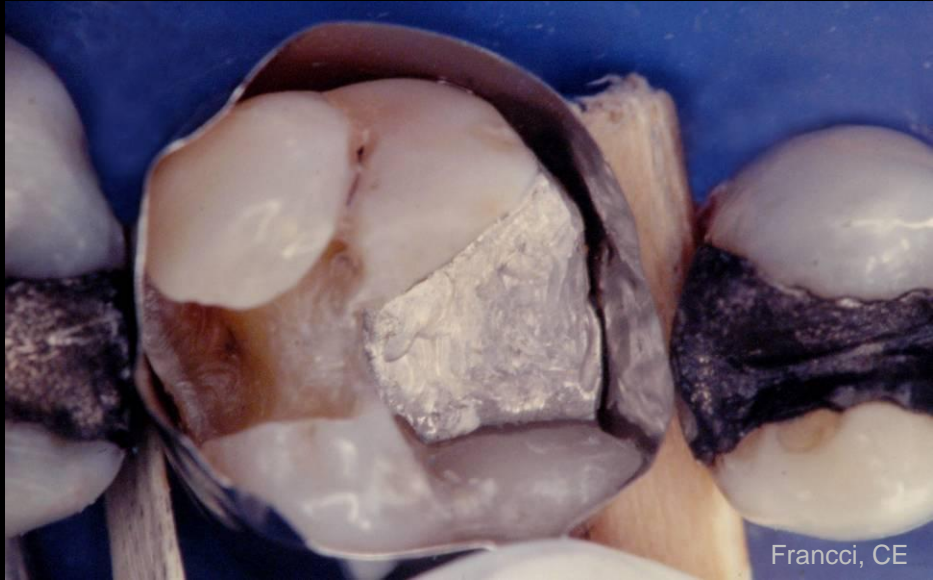




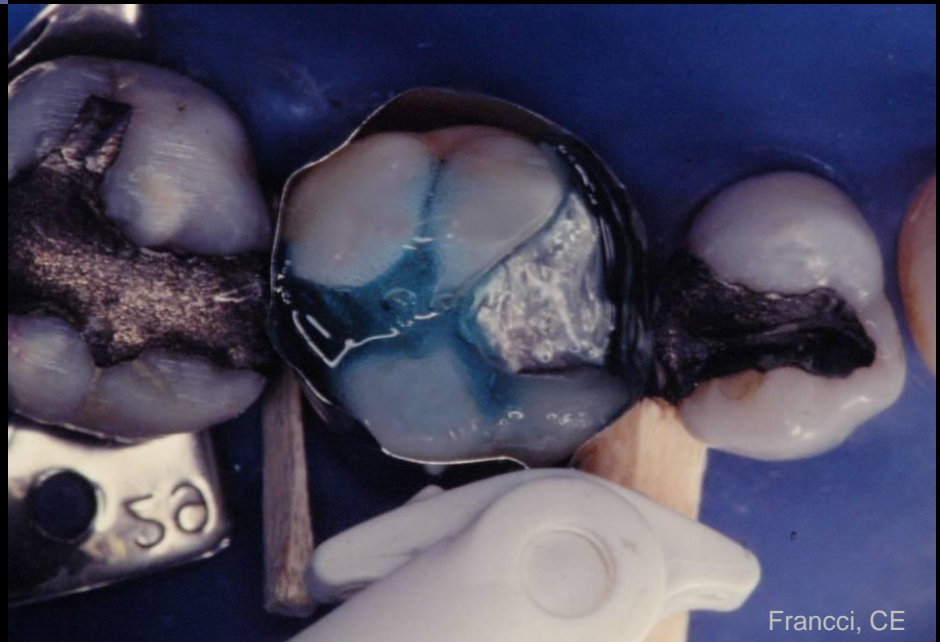
Francci, CE



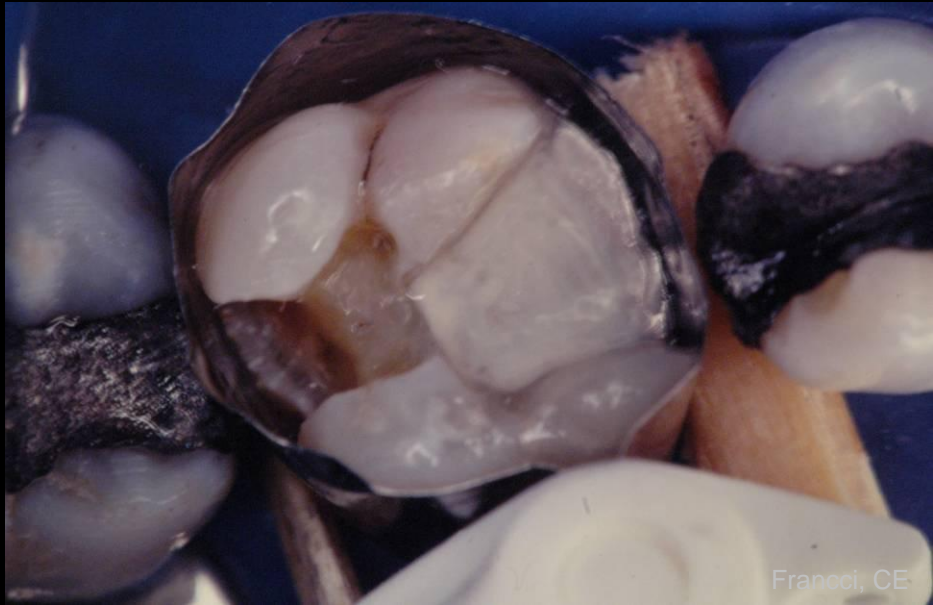
Francci, CE



Francci, CE



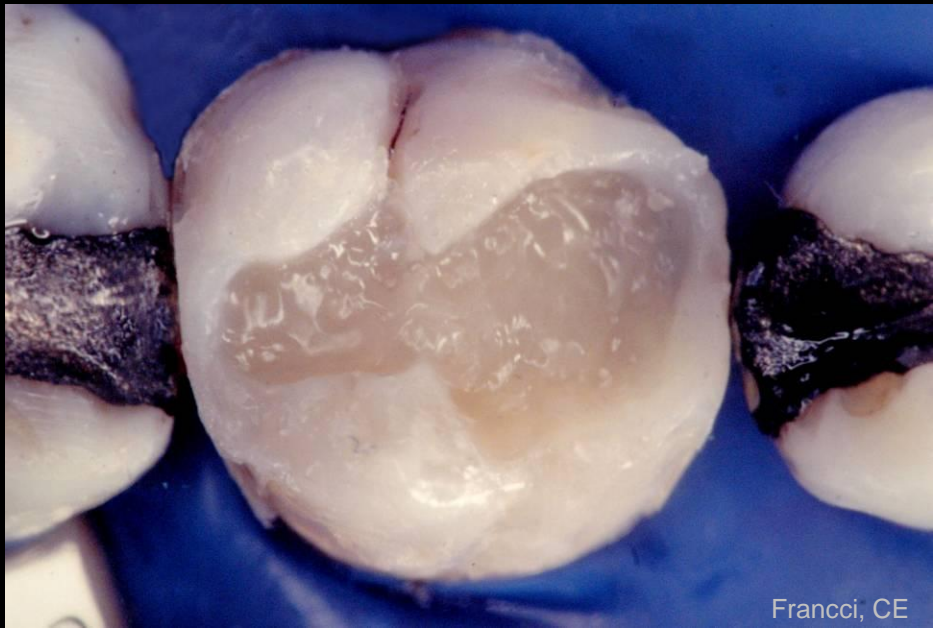
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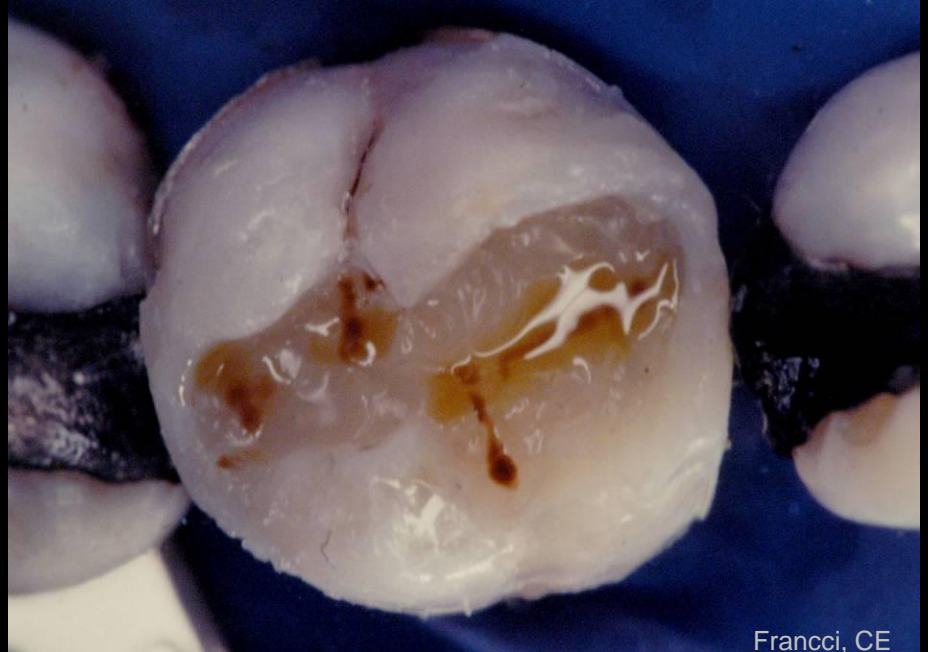
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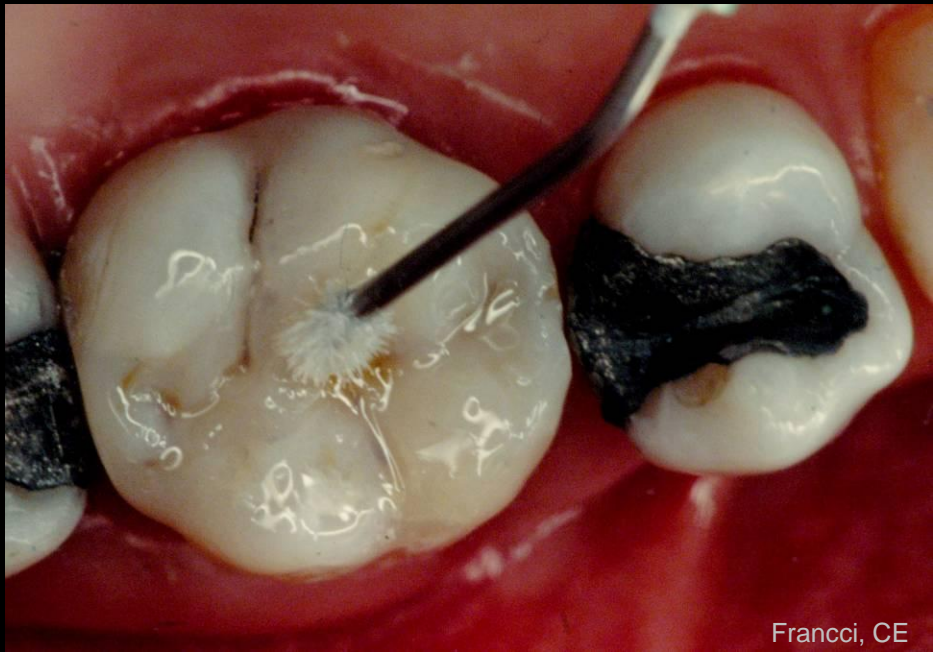
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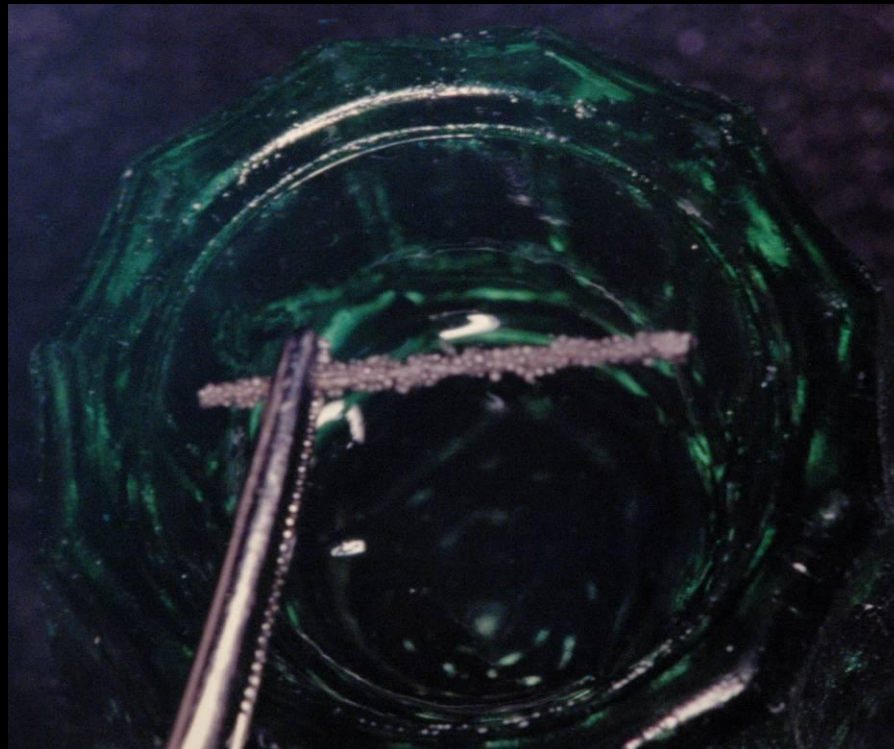
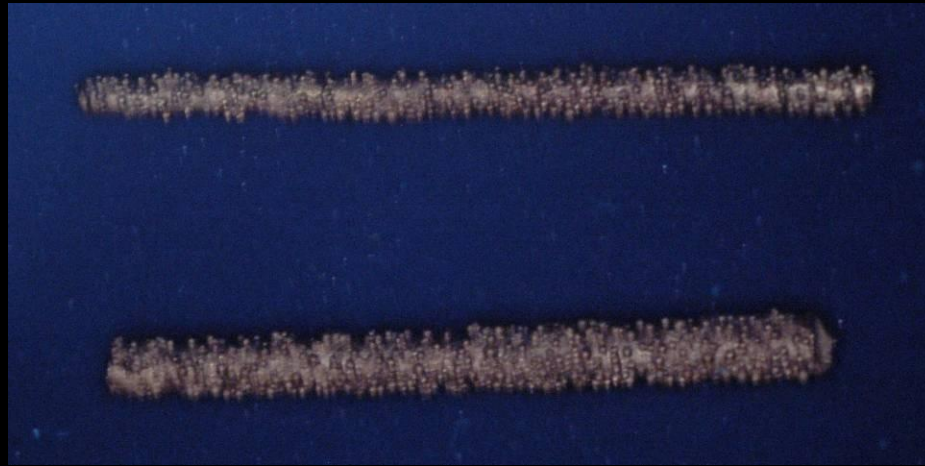
# Quintessence International

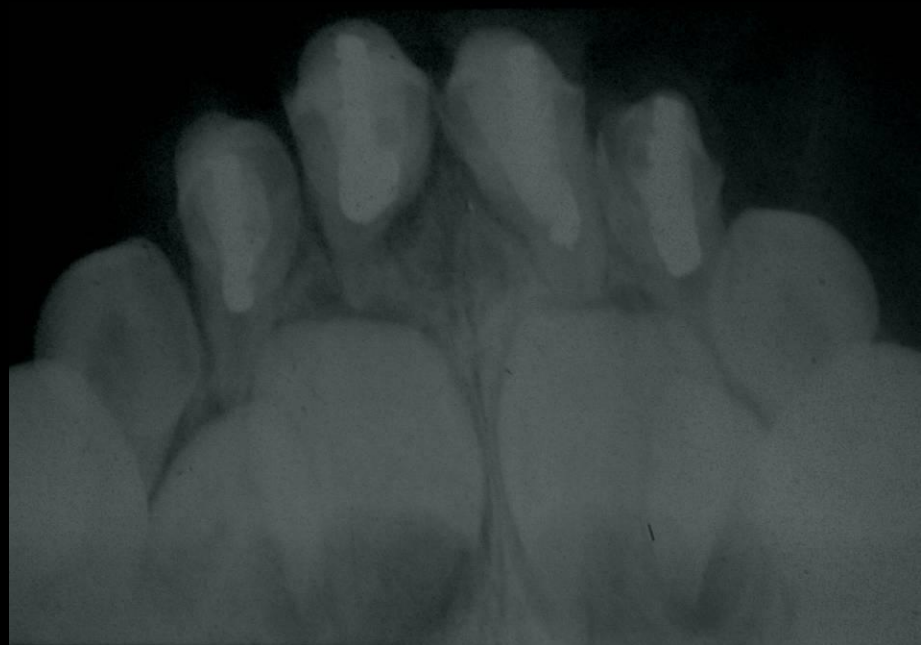
v.30, issue 6, 1999, p.432-436



- **Case of the month: Primary anterior tooth restoration using posts with macroretentive elements.** Marcia Turolla Wanderley, DDS/Sylvia Lavinia Martini Ferreira, DDS/Célia Regina Martins Delgado Rodrigues, DDS, MSD, PhD/Leonardo Eloy Rodrigues Filho DDS, MSD













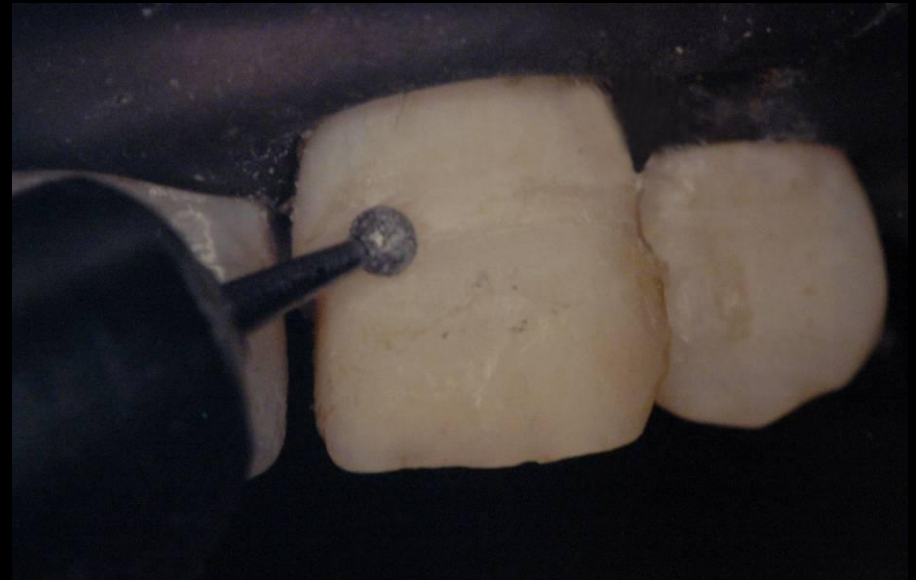




# Colagem de fragmentos homólogos (provenientes de banco de dentes)





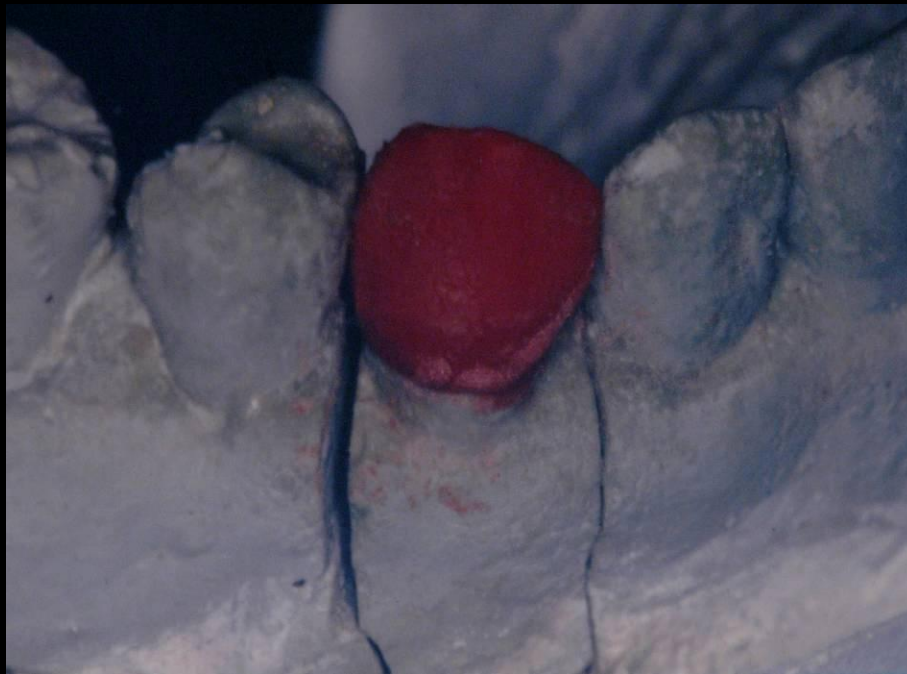


Reis A, Francci C, Loguércio AD, Carrilho MRO, Rodrigues Filho LE. Re-attachment of anterior fractured teeth: fracture strength using different techniques. *Operative Dentistry* 2001; 26: 287-294.











## Brasileiros usam célula-tronco para criar dente de camundongo



### Stem Cell Banks From Teeth?

U.S. medical officials are encouraging private companies to create banks for stem cells obtained from baby and wisdom teeth that one day could prove useful for regenerating diseased or damaged tissue.

"A few companies have contacted us about using the technology ... but none have come forward and said they want to bank these cells," Pamela Gehron Robey, of the National Institute of Dental and Craniofacial Research, a division of the National Institutes of Health in Bethesda, Md., told United Press International.

"We're hoping that some of this media attention will bring companies forward," Robey added, referring to coverage of a speech she made about tooth stem-cell research at the American Dental Association meeting in New York City.

So far, it does not appear many companies are biting.

Rita Kennen of the Cord Blood Registry in San Bruno, Calif., said her company also had not considered banking teeth stem cells.



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## New teeth 'could soon be grown'

Technology to grow replacement teeth could mean the end of dentures.

Scientists at King's College London have been awarded £500,000 to help them develop human teeth from stem cells.

The company Odontis, set up by the college, hopes to develop its research for tests on humans within two years after successful research on mice.

Stem cells, the so-called master cells, would be programmed to develop into teeth and then transplanted into the patient's jaw where the gap is.

It is thought it would then take two months for the tooth to fully develop.



Living teeth are better for gums than false ones