



Faculdade de Odontologia, Departamento de Biomateriais e Biologia Oral
 ODB400 – Biomateriais para Uso direto

Compósitos Resinosos

19/03/2020

Roteiro da aula

Introdução

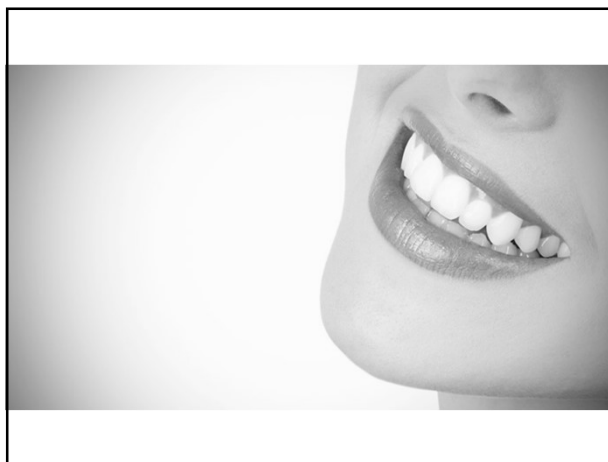
O que é um compósito dentário?

Matriz orgânica

Fase inorgânica

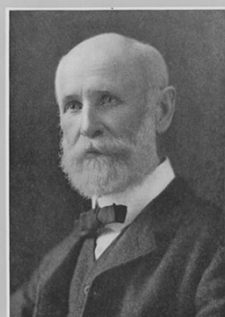
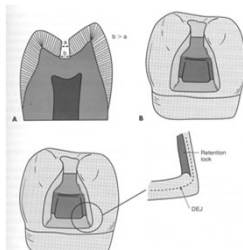
Sistemas de ativação

As coisas que não gostamos nos compósitos...



Amálgama

Retenção macro-mecânica à cavidade
(às vezes com remoção de tecido sadio)



Greene Vardiman Black



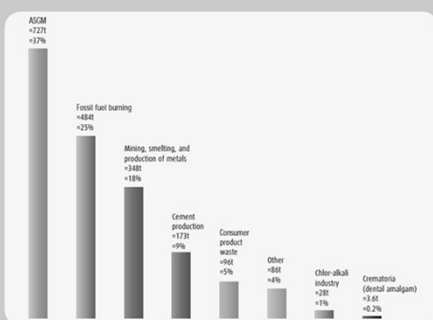
World Health Organization



United Nations Environment Programme

PROMOTING THE
PHASE DOWN OF
DENTAL AMALGAM
IN DEVELOPING
COUNTRIES

Global anthropogenic atmospheric emissions



Source: UNEP, Global Mercury Assessment, 2013.

[Intervention Review]

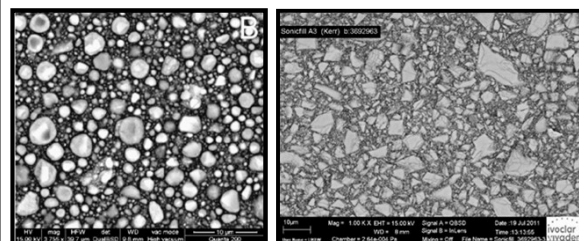
Direct composite resin fillings versus amalgam fillings for permanent or adult posterior teeth

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Outcomes	Illustrative comparative risks* (95% CI)		Relative effect (95% CI)	No of teeth (studies)
	Assumed risk	Corresponding risk		
	Amalgam	Composite		
Failure rate Follow-up: 5-7 years	75 per 1000	142 per 1000 (114 to 176)	RR 1.89 (1.52 to 2.35)	3010 (2 studies)
Secondary caries Follow-up: 5-7 years	57 per 1000	122 per 1000 (95 to 156)	RR 2.14 (1.67 to 2.74)	3010 (2 studies)
Fracture of restorations Follow-up: 5-7 years	14 per 1000	12 per 1000 (6 to 23)	RR 0.87 (0.46 to 1.64)	3010 (2 studies)

Compósito Resinoso = orgânica + inorgânica
(polímero) (partículas cerâmicas)



(Rodrigues Jr, Dent Mater 2008)