

Halaman Pengesahan

Kuliah Semester Genap TA 2016/2017

Blok 24

Topik Bleaching



Oleh :

Drg. Erma Sofiani, Sp.KG

Merupakan kuliah pada Program S-1 PSPDG UMY

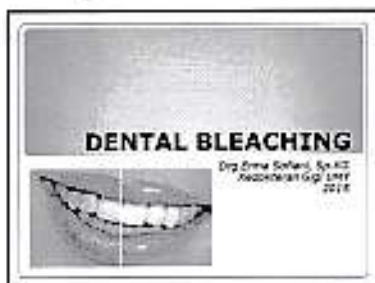
Yogyakarta, 3 Agustus 2017

Mengetahui,

Kaprodi PSPDG FKIK UMY

A blue circular stamp is visible behind the signature. The stamp contains the text "UNIVERSITAS MUHAMMADIYAH YOGYAKARTA" and "KAPRODI PSPDG FKIK UMY". The signature is written in black ink over the stamp.

Drg. Hastoro Pintadi, SpPro



Dental bleaching, also known as tooth whitening. According to the ADA, whitening restores natural tooth color and bleaching whitens beyond the natural color.

Whitening/bleaching

History of tooth bleaching

Year	Name	Material Used	Discoloration
1779	Wachstein	Dissolved chloride of lime or bleaching powder	
1848	Denette	Chlorine of lime	Not vital teeth
1852	Thomson	Liquid chloride of soda	Not vital teeth
1868	Salomon	Calcic acid	Vital teeth
1877	Diaper	Hydrochloric acid + oxalic acid	All discoloration
1878	Tak	Oxalic acid and carbon tetrachloride	
1924	Kaplan	Hydrogen dioxide	All discoloration
1982	Alkman	2% peroxide, 25% peroxide	

Year	Name	Material Used	Discoloration
1962	Conner	Plastic bleach technique: Dilute peroxide and water is sealed into the pulp chamber	Non-vital teeth
1962	Servant	Thermocatalytic technique: Pulp isolated with eugenol is inserted into the pulp chamber and heated with hot instrument	Non-vital teeth
1967	Waring and Jay	Conduction making bleach technique: Eugenol in pulp chamber (20% hot light activated)	Non-vital teeth
1987	Forsman	In-office bleaching using 30% H ₂ O ₂ and heat from bleaching light	Vital teeth
1988	Coatelli	Push-pull bleaching technique	Vital teeth
1989	Oral	Non-invasive	Vital teeth, superficial enamel discoloration, hyperaesthetic, aesthetic stain

Year	Name	Material Used	Discoloration
1948	Harwood and Harwood	High-potential vital bleaching (10% 100/100 peroxide)	Vital teeth and non-vital
1990	Carler and Goldstein	Combination of bleaching powder and home bleaching	Vital teeth
1996	Perla	Laser tooth whitening	Vital teeth
1997	Sakuma et al	Stannous fluoride bleaching	Non-vital and vital teeth
2000	Moore	Compressed bleaching	Vital teeth
2000	Keigel	5.5% H ₂ O ₂ 075 tooth whitening strips	Vital teeth
2005	Yildiz	Er:YAG laser whitening	Vital teeth
2008	Yoon	Sound bleaching	Vital teeth
2008	Wu, Ky	Plasma arc, UV, LED and light activated bleaching: Laser assisted bleaching: in-home bleaching with software concentration and with low desensitizers	Vital teeth

• Tooth discoloration can be classified into three categories:

1. Extrinsic discoloration
2. Intrinsic discoloration
3. Discoloration due to aging

Tooth Discoloration

