

Biological effects of dental materials in combination with optical radiation

Start of current projects: 2006 and 2009

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Ongoing visiting scientist project started January 2006:

Photosensitized reactions initiated by dental materials and established photosensitizing agents are studied. Two manuscripts are in preparation.

In vivo study on photosensitized effects on oral mucosa started January 2009:

A pilot study is funded by the Directorate of Health and Social Affairs, Norway.

Ref.:

Christensen T, Morisbak E, Dragland IS, Tønnesen HH, Bruzell EM. Photosensitized reactions *in vitro* by photoinitiators used for curing of dental polymer materials. 12th European Society of Photobiology Congress, Bath, UK, September 1-6, 2007: Book of Abstracts: OC223, pg. 81 (A).

http://www.niom.no/lenker-aktuelt/Photosensitised_reactions_in_vitro_by_photoinitiators_070828.pdf

Roll EB, Dahl JE, Runningen GR, Morisbak E. Cell death induced in rat submandibular acinar cell line by irradiation and chemicals relevant for dental applications; dose-response and potentiation effects.

Eur J Oral Sci 2004; 112:273-9. http://www.niom.no/lenker-aktuelt/Photosensitised_reactions_in_vitro_by_photoinitiators_070828.pdf

Ahlfors EE, Roll EB, Dahl JE, Lyberg T, Christensen T. Blue light exposure of the oral mucosa induces T cell-based inflammatory reactions. I: Book of Abstracts, 13th International Congress on Photobiology, San Francisco, July 2000; 322 (A).

Roll EB, Ahlfors EE, Dahl, JE. Herdelamper kan påvirke munnslimhinnen, NIOM-info nr.1, 2001.

Abstract (Norwegian): <http://www.niom.no/lenker-publikasjoner/BlaalysSlimhinne.pdf>

Abstract (English): <http://www.niom.no/lenker-publikasjoner/BlaalysSlimhinneEng.pdf>

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