

## National Institute of Dental and Craniofacial Research

### Examples of Sponsored Basic, Translational and Clinical Research

#### Linking Oral Health with HIV/AIDS

##### **Paper 2: Clinical pilot study on Oral Candidiasis**

[Eur J Clin Microbiol Infect Dis](#). 2011 May;30(5):629-33. Epub 2011 Jan 6.

**Identification of gentian violet concentration that does not stain oral mucosa, possesses anti-candidal activity and is well tolerated.**

[Jurevic RJ](#), [Traboulsi RS](#), [Mukherjee PK](#), [Salata RA](#), [Ghannoum MA](#); [Oral HIV/AIDS Research Alliance Mycology Focus group](#).

##### *Source*

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##### *Abstract*

Gentian violet (GV) is recommended for initial treatment of oral candidiasis in HIV-infected patients in resource-limited settings. Currently GV is not used because of its staining effects. In this study, we investigated the staining capacity of three different concentrations of GV to determine a concentration that does not cause staining. The selected concentration that did not cause staining was evaluated for its physical stability and antifungal activity. Fifteen healthy participants were randomized to rinse twice daily for 14 days with one of three GV concentrations: 0.1%, 0.0085%, or 0.00165%. Oral examination and intra-oral photographs were performed at baseline and at the end of therapy. Participants responded to a questionnaire to assess adverse events. Antifungal activity was evaluated using the Clinical and Laboratory Standard Institute methodology. GV at a concentration of 0.00165% did not stain the oral mucosa and was well tolerated. GV at a concentration of 0.00165% was stable and possessed antifungal activity when stored at certain temperatures for different time periods. Gentian violet solution at the concentration of 0.00165% does not stain the oral mucosa, is stable and possesses potent antifungal activity.

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