

## **0528 Disinfection efficacy to control Candida growth on soft denture liners**

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Introduction: Candida growth on removable dentures may induce a candidiasis and an irritation of the mucosa especially on PMMA-based soft denture liners and to a lesser extend on Silicone liners. The aim of this *in vitro* study was to test different possibilities to reduce the candida plaque on a silicone soft denture liner with mouthrinses and a disinfectant.

Material and Method: Cylindrical specimens (diameter 10mm, thickness 2 mm) were made of a soft denture liner (Mucopren soft, Kettenbach, G) and artificially aged (3000 cycles 5°C/55°C H<sub>2</sub>O; 2min). After incubation with *Candida albicans* (ATCC10231) for 2,5 h the specimen were incubated with Dynexan (Kreussler Pharma, G; 0,1% Chlorhexidin), Plax (Colgate Palmolive, G; 0,3% Triclosan), and Blend-a-dent 2 Phasen Ultra tabs (Procter & Gamble GmbH, G) according to the manufacturers instructions using the appropriate concentration. Incubation with phosphate buffered saline (PBS) served as a control. Living, adherent *Candida* colonies were quantified using a Luminescence Kit (ViaLight, Cambrex, USA) and the platereader Fluostar Optima (bmj, G). The setup was performed in triplicate using 10 samples and controls per group. Medians and 25/75 percentiles were calculated, statistics: Mann-Whitney U-test, p=0.05.

Results:

	Dynexan	Plax	Blend-a-dent 2 Phasen Ultra	PBS (control)
median	643	1095	18	674
25/75-percentile	353/1224	759/1609	5/71	434/955

The medians of the relative fluorescence intensity varied between 18 and 1095. Almost no colonies were found using Blend-a-dent 2 Phasen Ultra. The difference to every other tested group was significant. The mouthrinses did not reduce the *Candida* amount significantly.

Conclusion: Only the disinfectant tabs seem to be effective to control *Candida* growth on the soft denture liner.

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