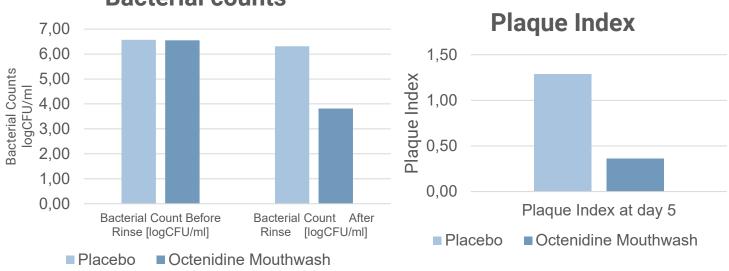
SCIENTIFIC MEDICAL CLINICAL AFFAIRS

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Research Compact

Tags	Oral Cavity, Octenidine
Title	Impact of 0.1% octenidine mouthwash on plaque re-growth in healthy adults: a multi-center phase 3 randomized clinical trial
Authors	Jockel-Schneider Y, Schlagenhauf U., Petsos H, Rüttermann S, Schmidt J, Ziebolz D, Wehner C, Laky M, Rott T, Noack M, Noack B, Lorenz K
Source	2020, Clinical Oral Investigations, https://doi.org/10.1007/s00784-021-03781-3
Aim of the study	Some patients e.g. immobilzed patient have an impaired capicity for oral hygiene. Hence, alternatives to traditional tooth brushing are needed. This randomized, placebo-controlled, double-blind, multi center phase 3 study aimed to evaluate the plaque inhibition efficacy of a oromucosal solution containing 0.1% octenidine (OCT) in the abscensce of mechanical tooth cleaning over a period of 5 days.
Methods	201 healthy volunteers were recruited and randomized into either Octenidine or placebo control group in a 3:1 ratio. Rinsing was condiucted twice daily for 30 seconds over a course of five days. Colony forming units in saliva were assessed after the initial rinsing. Plaque index, gingival index and tooth discoloration index were documented at day 1 and day 5. Adverse effects were monitored
Results	After the first rinse OCT reduced the bacterial load in saliva significantly compared to placebo (2.725 vs. 0.240 lgRF; $p < 0.0001$). OCT inhibited plaque formation (PI 0.36 vs. 1.29, $p<0.0001$) after 5 days significantly better than the placebo. Gingival index was reduction

p<0.0001) after 5 days significantly better than the placebo. Gingival index was reduction was higher in OCT than placebo (0.04 vs. 0.00; p = 0.003). However, tooth discoloration was slightly higher in patients treated with OCT (0.25 vs. 0.00; p = 0.0011). Temporary dysgeusia and mild tongue staining were the main adverse effects.



Bacterial counts

Conclusion

Moutwash containing 0.1% octenidine is a safe and effective measure to inhibit plaque formation and to reduce bacterial load in the oral cavity, especially when personal oral hygiene is temporarily impaired.