Interview: “Naturally occurring substances will find their place in oral health”

By Kasper Mussche, DTI

A graduate of the specialisation programme in periodontology at the University of Zurich in Switzerland, Dr Alex Solderer mostly treats severe cases of periodontitis in his daily routine. In addition, he conducts research on periodontal and dental implant topics. In his latest research paper, Dr Solderer conducted a systematic review of the efficacy of chlorhexidine rinsing after periodontal or implant surgery.

Dr Solderer, chlorhexidine is considered the gold standard for oral antiseptics. In your experience, would you agree with this?

Yes, I would. Just with regard to the literature alone, a search for chlorhexidine on PubMed yields 10,000 results. It is clearly the best-documented oral antiseptic you can find. Every new antibacterial rinse is and has to be compared with chlorhexidine.

After writing your review, what is your conclusion about chlorhexidine’s efficacy after surgery?

Well, after surgery, patients should not brush the teeth in the operation area until the stitches have been removed. Until then, chlorhexidine works like a “chemical toothbrush” in this area. Formation of plaque and gingival inflammation can be successfully suppressed. From the point at which normal oral hygiene can be re-established, I do not see any indication that the patient should continue to rinse with chlorhexidine.

Chlorhexidine is good at reducing biofilm, plaque and inflammation, but your paper says it has no effect on periodontal pocket depth.

Only mechanical therapy, such as scaling, root planing and periodontal surgery, can reduce pockets, as these procedures include the removal of the aetiological factors for periodontal pockets: biofilm and biofilm retention structures, such as calculus. Oral antiseptics should always be seen only as an adjunctive therapy.

Chlorhexidine has a number of side effects, such as tooth discoloration and taste disturbances. It also tastes unpleasant. Have you had any problems because of this when treating patients?

Patients who come to me for treatment normally have severe periodontal issues and are aware of them. After informing patients thoroughly on their oral health and disease, the benefits of chlorhexidine therapy and its temporary side effects, they generally do not complain about taste and discoloration. Patients do not like the side effects, but owing to their temporary character, they normally accept them. However, in a few cases, patients suffer from mouth burning, and then we have to stop the rinsing therapy. I never prescribe a chlorhexidine rinse for longer than two weeks, as side effects begin to increase after this period. After termination of the prescribed rinsing time, I always schedule an appointment for removal of the discoloration.

What is the importance of compliance during periodontal treatment?

Patient compliance—especially correct oral hygiene at home—is crucial. In my opinion, it makes no sense to start periodontal treatment before adequate oral hygiene has been established. In a university department, this might work more easily than in a private practice. We work with plaque-disclosing methods to reveal biofilm and that helps patients to visualise their problem areas and to know where brushing is particularly important.

In other words, the key factor is to educate patients. This also includes instructing the patient how long, how often and in what manner the rinse should be used. After surgery, for example, in the time during which the patient should refrain from toothbrushing, the stitches are still in place and the wound needs to heal. Here, I instruct patients to bathe the operation
HELSINKI, Finland: Scientists have previously identified obesity and increasing age as risk factors for gestational diabetes mellitus (GDM). Some scholars believe that chronic oral and dental infections may also play a role in the progression of GDM. A recent study sought to examine whether poor oral health is associated with a history of GDM. A recent study has found no link between poor oral health status and gestational diabetes mellitus. The study, titled "Oral health in pregnancy and puerperium: a longitudinal study of women at high risk of the condition," was published online on 3 September 2019 in Dental Tribune Middle East & Africa Edition. The researchers used questionnaires to assess the participants' oral health habits, symptoms and own opinion of their oral health. The researchers assessed the oral health status of 119 women with and without a history of GDM. They performed full-mouth examinations five years after childbirth and calculated the number of teeth, the total dental index, and the number of decayed, missing and filled teeth. They also recorded bleeding on probing, probing depth, visible plaque index (VPI) and clinical attachment level and calculated the periodontal inflammatory burden index (PBI). The researchers used questionnaires to assess the participants' oral health habits, symptoms and own opinion of their oral health. Nearly half of the women examined (45%) had a history of GDM. During the examination, the majority of the participants were found to have mild periodontitis (85%) and experienced bleeding on probing (46%). The data revealed that the VPI and PBI scores were lower among those with a history of GDM. According to the researchers, all the women reported good subjective oral health. Women with a history of GDM, however, showed slightly better oral health parameters compared with women without a history of GDM. "We need to emphasize the importance of oral health, especially for metabolically high-risk patients, and to provide them with adequate oral health care," said co-author Hanna Poulain, a researcher at the University of Helsinki. "We are now planning on studying the metabolic health status of study participants five years after delivery and also their oral microbiology and salivary biomarkers. In the future, it would also be important to focus on the oral health of women at risk for GDM before, during and after pregnancy," she concluded.
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