

STUDIES BY **©** PROF. DR. DR. GÄNGLER UNIVERSITY WITTEN/HERDECKE

CLINICALLY CONTROLLED TRIAL IN 2012 OF PLAQUE REDUCTION AND **INFLAMMATION CONTROL OF GINGIVA** WITH THE EMMI®-DENT

• The tested exclusively ultrasound-activated toothbrush emmi®-dent is effective in plaque reduction.

CLINICALLY CONTROLLED TRIAL IN 2013 OF THE EFFECT OF ULTRASONIC TOOTHBRUSHING IN PERIODONTAL **MAINTAINANCE TREATMENT**

• The direct application of ultrasound within the oral cavity is a completely new biophysical dimension of effective tooth cleaning and control of the bacterial biofilms with no brushing action at all.

ULTRASONIC VS. MANUAL TOOTHBRUS-HING IN ORTHODONTIC PATIENTS WITH **MANIFEST GINGIVITIS**

• The study confirms earlier results of plaque reduction and contribution to gingival health (Denda, 2012 and May, 2013).



- The ultrasonic toothbrush contributes to gingival health and avoids completely abrasive brush movements.
- Therefore, the risk of abrasive lesions on teeth and gums is excluded.
- This plaque reduction on all sites of teeth after one single toothbrushing was measured with more than 20% compared to the non-cleaned teeth. During follow-up for 7 and 21 days, the area free of plaque was kept by 45%.

- The ultrasonic toothbrush contributes to gingival health by significantly reducing gum bleeding and avoids completely abrasive brush movements. Therefore, the risk of wear lesions on teeth and gums is excluded.
- The ultrasound oral hygiene home care resulted in a markedly improved reduction of periodontal pockets. Therefore, the ultrasonic toothbrush emmi®-dent contributes effectively to the periodontal maintenance treatment.
- The emmi®-dent ultrasonic toothbrush used in a high risk cohort of subjects under orthodontic treatment and exhibiting chronic gingivitis is clinically effective in significant plaque reduction and highly significantly decreasing the number of gingivitis teeth.
- The advantage of the emmi®-dent is the non-abrasive brush movements.