

Author, Year	Study design Sample size (N) Setting & Operators' experience	Demographic data Age (Mean ± SD, range) Gender (M/F) Smoking (Yes/No)	Baseline FMPS % (Mean ± SD) Alternatively PI FMBS % (Mean ± SD) Alternatively GI Inclusion criteria	Follow-up FMPS % (Mean ± SD) Alternatively PI FMBS % (Mean ± SD) Alternatively GI	Non-Surgical Treatment	Follow up and Re-evaluation time (months)	Harms and adverse effect & PROMs	Number or percentage of pockets at baseline	Number or percentage of pockets at final follow up
Giannelli M, 2018	Study Design: Split-mouth RCT Sample size: 24 Setting & Experience: NR	Age: 48.1 M/F: 14/10 Smokers/Non-smokers: 10/14 (0, 10-20 sig. 2, 2 no smokers, 12 no smokers)	FMPS: 26.5 ± 3.7 FMBS: 42 ± 4.6 Inclusion criteria: Chronic periodontitis; presence of ≥ 16 natural teeth with a minimum of 1 per quadrant; ≥ 2 interproximal sites with CAL ≥ 6 mm (not on same tooth) per quadrant; and, ≥ 1 interproximal site with PD ≥ 5 mm per quadrant	FMPS: 8.2 ± 1.5 FMBS: 23.2 ± 2.1	Modality: NR Pre-treatment supragingival scaling YES Instrumentation: Manual & US Anesthesia: YES (if requested) Mouthrinse: NR Number of session: NR Total time of treatment: NR Span of treatment: NR	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: 2 teeth lost in the follow up (don't know in which group) 3 absences after 1 week 3 absences in the follow up 1 patient fever during the second day 1 patient lost 1 day of work PROMs: Preference for laser treatment	% of pockets %PD ≥ 6 mm: 28.5 ± 2.9% %PD ≥ 7: 12.9 ± 2.5%	% of pockets %PD ≥ 6 mm: 36.1 ± 3.9% %PD ≥ 7: 5.7 ± 1.5%
Borges I, 2017	Study Design: Parallel RCT Sample size: 22 Setting & Experience: University; Periodontist	Age: 45.6 ± 8.0 M/F: 10/12 Smokers/Non-smokers: 0/22	FMPS: 61.0 ± 16.3 FMBS: 67.9 ± 14.6 Inclusion criteria: Generalized Chronic Periodontitis: ≥ 30 years of age, ≥ 15 teeth, at least 2 of the sites with PD and clinical attachment level (CAL) ≥ 4 mm and bleeding on probing (BOP) and at least 2 interproximal sites with PD ≥ 5 mm and CAL ≥ 5 mm.	FMPS: 26.0 ± 19.7 FMBS: 40.0 ± 17.4	Modality: OSFMSRP + re-evaluation of SRP removal of any residual calculus and monitoring compliance (during the second week) YES Instrumentation: Manual & US Anesthesia: YES Mouthrinse: NR Number of session: 1 + follow-up Total time of treatment: NR Span of treatment: NR	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: allergy to microsilica in the test group PROMs: NR	% of pockets %PD ≥ 4 mm: 42.0 ± 17.3 %	No. of pockets: %PD ≥ 5 mm: 19.0 ± 14.5; %PD ≥ 6 mm: 11.1 ± 11.5; %PD ≥ 7 mm: 5.4 ± 5.5; %PD ≥ 8 mm: 11.7 ± 9.3
Congaro R, 2017	Study Design: Parallel RCT Sample size: 26 Setting & Experience: University; Periodontist	Age: 42.59 ± 6.68 M/F: 10/16 Smokers/Non-smokers: 0/18	FMPS: 20.37 ± 6.43 FMBS: 62.83 ± 27.80 Inclusion criteria: Clinical (at least one site) and radiographic (at least one site) chronic periodontitis	FMPS: 20.74 ± 12.93 FMBS: 12.91 ± 10.01	Modality: Staged Pre-treatment supragingival scaling YES Instrumentation: Manual & US Anesthesia: YES Mouthrinse: NR Number of session: NR Total time of treatment: 2 days Span of treatment: 2 days	Frequency of SPT: 3, 6, 12 months Re-evaluation: 12 months	Harms: 2 test group headache 2 control group headache 1 test group gastrointestinal disorders 1 control group fever 1 test group fever 1 test group respiratory disorders 1 control group bleeding PROMs: NR	No. of pockets: %PD ≥ 6 mm: 35.8 ± 17.36 %PD ≥ 7 mm: 41.71 ± 19.91 %PD ≥ 8 mm: 10.81 ± 22.84 %PD ≥ 9 mm: 14.69 ± 22.84	No. of pockets: %PD ≥ 5 mm: 5.9 ± 3.71; %PD ≥ 6 mm: 10.50 ± 6.85; %PD ≥ 7 mm: 11.11 ± 11.55; %PD ≥ 8 mm: 12.34 ± 8.15
Baehum W, 2016	Study Design: Uncontrolled before-after study Sample size: 149 Setting & Experience: University; Hygienist	Age: 50.70 M/F: 73/76 Smokers/Non-smokers: 51/98	FMPS: NR FMBS: 30.3 ± 17.8 Inclusion criteria: NR	FMPS: NR FMBS: 20.7 ± 12.6	Modality: Staged Pre-treatment supragingival scaling YES Instrumentation: Manual & US Anesthesia: YES Mouthrinse: NR Number of session: 3-4 Total time of treatment: NR Span of treatment: 3 weeks	Frequency of SPT: 6 weeks after treatment, then every 3 months (SRP in PD ≥ 4 mm BoP+) Re-evaluation: 12 months	Harms: NR PROMs: NR	No. of pockets: %PD ≥ 5 mm: 20.5 ± 22.7 %PD ≥ 7 mm: 3.3 ± 6.6	No. of pockets: %PD ≥ 5 mm: 10.3 ± 13.1; %PD ≥ 7 mm: 0.8 ± 5.4
Morales A, 2016	Study Design: Parallel RCT Sample size: 14 Setting & Experience: University; NR	Age: 46.9 ± 10.3 M/F: 7/7 Smokers/Non-smokers: 0/14	FMPS: 52.1 ± 20.7 FMBS: 33.8 ± 16.1 Inclusion criteria: Chronic Periodontitis: ≥ 5 teeth with PD ≥ 5 mm and CAL ≥ 5 mm, 20% and extensive radiographically determined bone loss. Healthy non-bleeding non-inflamed interdental or female patients. 2) aged ≥ 35 years, 3) 14 natural teeth, excluding third molars, 4) presence of a 10 posterior teeth, and 5) previously untreated periodontitis.	FMPS: 35.1 ± 11.4 FMBS: 25.4 ± 10.3	Modality: Staged Pre-treatment supragingival scaling NR Instrumentation: Manual & US Anesthesia: NR Mouthrinse: NR Number of session: 4-6 Total time of treatment: NR Span of treatment: 4-6 weeks	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 5 mm: 53.8 ± 6.6% %PD ≥ 6 mm: 33 ± 3.0% %PD ≥ 7 mm: 13.2 ± 2% %PD ≥ 8 mm: 14 ± 3% %PD ≥ 9 mm: 1.4 ± 2.2% %PD ≥ 10 mm: 0.7 ± 1.4%	% of pockets %PD ≥ 5 mm: 13.4 ± 1.2% %PD ≥ 6 mm: 0.7 ± 1.2% %PD ≥ 7 mm: 0.3 ± 0.5% %PD ≥ 8 mm: 1.3; %PD ≥ 9 mm: 6; %PD ≥ 10 mm: 4
Giannelli M, 2015	Study Design: Split-mouth RCT Sample size: 26 Setting & Experience: University; Periodontist	Age: 46.1 M/F: 14/12 Smokers/Non-smokers: NR (heavy smokers > 10 cig excluded)	FMPS: NR FMBS: 68.9 ± 2.9 Inclusion criteria: Chronic periodontitis; presence of ≥ 16 natural teeth with a minimum of 1 per quadrant; ≥ 2 interproximal sites with CAL ≥ 6 mm (not on same tooth) per quadrant; and, ≥ 1 interproximal site with PD ≥ 5 mm per quadrant	FMPS: NR FMBS: 37.0 ± 0.9	Modality: NR Pre-treatment supragingival scaling YES Instrumentation: Manual & US Anesthesia: YES (if requested) Mouthrinse: NR Number of session: NR Total time of treatment: NR Span of treatment: NR	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 6 mm: 32.7 ± 2.8% %PD ≥ 7 mm: 7.1 ± 3.3% %PD ≥ 8 mm: 10.2 ± 1.7%	% of pockets %PD ≥ 5 mm: 37.4 ± 4.6% %PD ≥ 6 mm: 60.3 ± 4.4% %PD ≥ 7 mm: 24.0 ± 0.9%
Gonçalves TEH, 2015	Study Design: Uncontrolled before-after study Sample size: 20 Setting & Experience: University; Periodontist	Age: 48.5 ± 9.3 M/F: 10/10 Smokers/Non-smokers: 0/20	FMPS: 85.8 ± 9.7 FMBS: 53.63 ± 17.9 Inclusion criteria: diagnosis of generalized (Armitage 1999) as follows: 1) ≥ 50% of the sites with concomitant probing depth (PD) and clinical attachment level (CAL) ≥ 4 mm and a minimum of six teeth distributed in the different quadrants preventing at least one site with PD and CAL ≥ 5 mm at baseline	FMPS: 21.0 ± 13.2 FMBS: 14.9 ± 17.9	Modality: NR Pre-treatment supragingival scaling YES Instrumentation: Manual & US Anesthesia: YES Mouthrinse: NR Number of session: 4-6 Total time of treatment: 4-6 weeks Span of treatment: 4-6 weeks	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 5 mm: 21.6 ± 10.4% %PD ≥ 6 mm: 8.0 ± 4.1%	% of pockets %PD ≥ 5 mm: 17.6 ± 9.5% %PD ≥ 6 mm: 1.9 ± 1.4%
Sanz-Sanchet I, 2015	Study Design: Parallel RCT Sample size: 21 Setting & Experience: University; Periodontist	Age: 56.8 M/F: 15/6 Smokers/Non-smokers: 7/14	FMPS: 60.53 ± 14.2 FMBS: 65.44 ± 14.2 Inclusion criteria: Chronic periodontitis based on the presence of 4 teeth per quadrant with PD ≥ 4.5 mm and 30% to 50% radiographic bone loss to ≥ 30%	FMPS: 24.62 ± 7.5 FMBS: 30.61 ± 9.1	Modality: OSFMSRP Pre-treatment supragingival scaling NR Instrumentation: US Anesthesia: YES (if requested) Mouthrinse: NR Number of session: 2 Total time of treatment: 1.5 - 2 h Span of treatment: 1 week	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: NR PROMs: NR	No. of pockets %PD ≥ 5 mm: 57.2 ± 6.5; %PD ≥ 6 mm: 10.3 ± 1.0	No. of pockets %PD ≥ 5 mm: 37.4 ± 6.8; %PD ≥ 6 mm: 24.0 ± 0.5
Tekce M, 2015	Study Design: Parallel RCT Sample size: 20 Setting & Experience: University; NR	Age: 41.40 ± 8.86 M/F: 11/9 Smokers/Non-smokers: 0/20	PI: 2.31 ± 0.41 FMBS: 88.65 ± 4.11 Inclusion criteria: Chronic periodontitis patients with radiographically detected horizontal bone loss (Armitage 1999), ≥ 2 teeth ≥ 1 approved PD ≥ 7 mm and a 4 of ≥ 2 in each quadrant.	PI: 1.39 ± 0.20 FMBS: 19.05 ± 4.84	Modality: Staged Pre-treatment supragingival scaling YES Instrumentation: Manual & US Anesthesia: NR Mouthrinse: NR Number of session: 2 Total time of treatment: NR Span of treatment: 1 week	Frequency of SPT: NR Re-evaluation: 12 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 5 mm: 79.94 ± 8.7% %PD ≥ 6 mm: 47.42 ± 5.57% %PD ≥ 7 mm: 16.12 ± 6.52 %	% of pockets %PD ≥ 5 mm: 48.87 ± 11.52% %PD ≥ 6 mm: 14.1 ± 4.38% %PD ≥ 7 mm: 1.73 ± 2.49%
Shiloah I, 2014	Study Design: Parallel RCT Sample size: 12 Setting & Experience: University; NR	Age: 48.83 M/F: 7/5 Smokers/Non-smokers: 12	FMPS: NR FMBS: 59.15 ± 4.63 Inclusion criteria: Chronic periodontitis with inflammation, probing depths of 5 mm and attachment loss ≥ 2 mm in at least four teeth, at least one site in each quadrant exhibiting the above criteria to meet the study objectives	FMPS: NR FMBS: 16.56	Modality: Staged Pre-treatment supragingival scaling NR Instrumentation: NR Anesthesia: NR Mouthrinse: NR Number of session: NR Total time of treatment: NR Span of treatment: NR	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: NR PROMs: NR	%PD ≥ 3 mm: 58.49 ± 24.39% %PD ≥ 4 mm: 35.36 ± 17.89% %PD ≥ 5 mm: 5.84 ± 9.23%	%PD ≥ 3 mm: 65.61 ± 19.60% %PD ≥ 4 mm: 30.54 ± 17.99% %PD ≥ 5 mm: 3.79 ± 6.09%
Feres M, 2013	Study Design: Parallel RCT Sample size: 40 Setting & Experience: University; Periodontist	Age: 45.8 ± 8.54 M/F: 12/28 Smokers/Non-smokers: 0/40	FMPS: 78.9 ± 15.6 FMBS: 70.6 ± 23.8 Inclusion criteria: Generalized Chronic Periodontitis: ≥ 30 years of age and ≥ 6 teeth with at ≥ 5 mm each with PD ≥ 5 mm and CAL ≥ 5 mm, as well as ≥ 30% of the sites with PD and CAL ≥ 4 mm and BOP+.	FMPS: 38.0 ± 24.2 FMBS: 23.5 ± 25.8	Modality: Staged Pre-treatment supragingival scaling NR Instrumentation: Manual & US Anesthesia: YES Mouthrinse: NR Number of session: 4-6 Total time of treatment: 4-6 h Span of treatment: 2 weeks	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: none PROMs: NR	% of pockets %PD ≥ 5 mm: 40.8 ± 20.7%	% of pockets %PD ≥ 5 mm: 12.0 ± 11.4 %
Menzik MJ, 2012	Study Design: Parallel RCT Sample size: 15 Setting & Experience: University; Periodontist	Age: 27.6 ± 3.5 M/F: 11/4 Smokers/Non-smokers: 0/15	FMPS: 62.7 ± 22.4 FMBS: 63.8 ± 21.3 Inclusion criteria: Diagnosis of Generalized Aggressive Periodontitis: ≥ 30 years of age and ≥ 6 periodontal teeth, including incisors and/or first molars, with ≥ 1 mm each with PD ≥ 5 mm and CAL ≥ 5 mm; ≥ 6 teeth other than first molars and incisors with at least 2 mm each with PD ≥ 5 mm and CAL ≥ 5 mm; familial aggregation	FMPS: 33.3 ± 13.2 FMBS: 13.7 ± 10.3	Modality: Staged Pre-treatment supragingival scaling YES Instrumentation: Manual & US Anesthesia: YES Mouthrinse: NR Number of session: 4-6 Total time of treatment: 4-6 h Span of treatment: 2 weeks	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: none PROMs: NR	% of pockets %PD ≥ 5 mm: 30.9 ± 11.1%	% of pockets %PD ≥ 5 mm: 16.0 ± 8.8%
Wong RMS, 2012	Study Design: Uncontrolled before-after study Sample size: 65 Setting & Experience: University; Hygienist	Age: 47.4 ± 6.8 M/F: NR Smokers/Non-smokers: 0/65	FMPS: 72.8 FMBS: 86.3 Inclusion criteria: ≥ 15 teeth excluding third molars and teeth planned for extraction and ≥ 1 mm each with PD ≥ 5 mm in each quadrant.	FMPS: 25.4 FMBS: 32.0	Modality: Staged Pre-treatment supragingival scaling YES Instrumentation: NR Anesthesia: NR Mouthrinse: NR Number of session: 4-6 Total time of treatment: NR Span of treatment: 4 weeks	Frequency of SPT: 1 month then every 3 months Re-evaluation: 12 months	Harms: none PROMs: NST increase quality of life	% of pockets %PD ≥ 5 mm: 25.9% %PD ≥ 6 mm: 11.2%	% of pockets %PD ≥ 5 mm: 0.9% %PD ≥ 6 mm: 1.0%
Rosa EF, 2011	Study Design: Uncontrolled before-after study Sample size: 35 Setting & Experience: University; Periodontist	Age: 49.2 ± 7.0 M/F: 20/15 Smokers/Non-smokers: 35/0	FMPS: 81.1 ± 19.8 FMBS: 19.8 ± 13.8 Inclusion criteria: Chronic Periodontitis: ≥ 30% of teeth with proximal CAL ≥ 5 mm	FMPS: 72.09 ± 27.09 FMBS: 20.04 ± 13.15	Modality: Staged Pre-treatment supragingival scaling YES Instrumentation: Manual & US Anesthesia: NR Mouthrinse: NR Number of session: 4-6 Total time of treatment: NR Span of treatment: 4-6 weeks	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 4 mm: 54.9 ± 25.3%	%PD ≥ 4 mm: 21.5 ± 16.1%
Rosa EF, 2011	Study Design: Uncontrolled before-after study Sample size: 17 Setting & Experience: University; Periodontist	Age: 48.9 ± 6.1 M/F: 7/10 Smokers/Non-smokers: 0/17	FMPS: 84.3 ± 23.7 FMBS: 25.6 ± 17.6 Inclusion criteria: Chronic Periodontitis: ≥ 30% of teeth with proximal CAL ≥ 5 mm	FMPS: 58.62 ± 21.97 FMBS: 20.41 ± 11.63	Modality: Staged Pre-treatment supragingival scaling YES Instrumentation: Manual & US Anesthesia: NR Mouthrinse: NR Number of session: 4-6 Total time of treatment: NR Span of treatment: 4-6 weeks	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 4 mm: 47.4 ± 16.9%	% of pockets %PD ≥ 4 mm: 10.2 ± 7.4%
Sampain E, 2011	Study Design: Parallel RCT Sample size: 20 Setting & Experience: University; NR	Age: 43.52 ± 5.905 M/F: 11/9 Smokers/Non-smokers: 0/15	FMPS: 82.70 ± 12.91 FMBS: 81.93 ± 1.86 Inclusion criteria: Chronic Periodontitis: ≥ 3 non adjacent sites with PD ≥ 7 mm and CAL ≥ 7 mm ± 2 non adjacent sites with PD ≥ 5 mm and CAL ≥ 5 mm; ≥ 20% of sites with PD ≥ 5 mm and CAL ≥ 5 mm	FMPS: 36.36 ± 27.29 FMBS: 9.47 ± 7.71	Modality: Staged Pre-treatment supragingival scaling NR Instrumentation: Manual (manually) bid, for 2 months Mouthrinse: NR Number of session: 4-6 Total time of treatment: 8-12 h Span of treatment: 2 weeks	Frequency of SPT: NR Re-evaluation: 12 months	Harms: 2 test group diarrhea 1 control group headache 3 control group stomatitis 1 test group general unwellness 1 control group general unwellness PROMs: NR	% of pockets %PD ≥ 5 mm: 44.52 ± 13.10% %PD ≥ 6 mm: 15.63 ± 13.65% %PD ≥ 7 mm: 10.8 ± 4.50%	% of pockets %PD ≥ 5 mm: 37.47 ± 12.79% %PD ≥ 6 mm: 20.4 ± 13.5 % %PD ≥ 7 mm: 10.6 ± 10.8%
Jonsson et al., 2010	Study Design: Parallel RCT Sample size: 55 Setting & Experience: University; Hygienist	Age: 50.1 ± 10.3 M/F: 30/25 Smokers/Non-smokers: 20/36	FMPS: 75 ± 18 FMBS: 75 ± 18 Inclusion criteria: Chronic periodontitis were radiologically to the study after an examination including full-mouth probing and radiographic evaluation, and some pre-treatment active or tooth extraction. Periodontal diagnosis: slight 9%, moderate 37%, advanced 54%	FMPS: 28 ± 13 FMBS: 29 ± 14	Modality: Staged Pre-treatment supragingival scaling NR Instrumentation: Manual (manually) bid, for 2 months Mouthrinse: NR Number of session: 1-5 Total time of treatment: NR Span of treatment: NR	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 5 mm: 49% %PD ≥ 6 mm: 33% ± 10.0%	% of pockets %PD ≥ 5 mm: 12.2 ± 10.8%
Wan CP, 2009	Study Design: Uncontrolled before-after study Sample size: 20 Setting & Experience: University; Hygienist	Age: 46.2 M/F: 20/0 Smokers/Non-smokers: 20/0	FMPS: 77.36 ± 10.96 FMBS: 54.32 ± 13.68 Inclusion criteria: Chronic Periodontitis: 35 ± age ≥ 64 chinese adults ≥ 16 teeth with ≥ 1 tooth having PD ≥ 5 mm in each quadrant, excluding the third molars	FMPS: 33.79 ± 15.07 FMBS: 26.91 ± 10.85	Modality: Staged Pre-treatment supragingival scaling NR Instrumentation: NR Anesthesia: NR Mouthrinse: NR Number of session: 4-6 Total time of treatment: NR Span of treatment: 8 weeks	Frequency of SPT: NR Re-evaluation: 12 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 5 mm: 90.8 ± 9.69 %	% of pockets %PD ≥ 5 mm: 3.37 ± 3.24 %
Wan CP, 2009	Study Design: Uncontrolled before-after study Sample size: 20 Setting & Experience: University; Hygienist	Age: 45.0 M/F: 20/0 Smokers/Non-smokers: 0/20	FMPS: 75.45 ± 14.95 FMBS: 73.45 ± 21.02 Inclusion criteria: Chronic Periodontitis: 35 ± age ≥ 64 chinese adults ≥ 16 teeth with ≥ 1 tooth having PD ≥ 5 mm in each quadrant, excluding the third molars	FMPS: 26.55 ± 14.19 FMBS: 24.92 ± 10.44	Modality: Staged Pre-treatment supragingival scaling NR Instrumentation: NR Anesthesia: YES Mouthrinse: NR Number of session: 4-6 Total time of treatment: NR Span of treatment: 8 weeks	Frequency of SPT: NR Re-evaluation: 12 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 5 mm: 11.43 ± 12.14 %	%PD ≥ 5 mm: 0.08 ± 0.04 %
Yen CA, 2008	Study Design: Parallel RCT Sample size: 47 Setting & Experience: NR, NR	Age: 47.3 ± 9.2 M/F: 25/22 Smokers/Non-smokers: 17/28 (2 missing)	FMPS: 58.7 FMBS: 43.6 Inclusion criteria: Chronic Periodontitis: ≥ 16 teeth, ≥ 2 of which were molars; ≥ 4 teeth with PD ≥ 5 mm and CAL loss > 2 mm were present with ≥ 2 interproximal sites with radiographic evidence of bone loss.	FMPS: 17.5 FMBS: 17.4	Modality: Staged Pre-treatment supragingival scaling NR Instrumentation: NR Anesthesia: NR Mouthrinse: NR Number of session: NR Total time of treatment: NR Span of treatment: 1-2 weeks	Frequency of SPT: NR Re-evaluation: 12 months	Harms: 1 control group skin rash PROMs: NR	% of pockets %PD ≥ 3 mm: 75.10%	% of pockets %PD ≥ 3 mm: 87.84%
Ramberg P, 2001	Study Design: Non Randomized CT Sample size: 115 (89 SRP; 35 SRP + AB) Setting & Experience: University; NR	Age: 42.1 (23-66) M/F: 56/43 Smokers/Non-smokers: 56/56	FMPS: 28 ± 28 FMBS: 67 ± 32 Inclusion criteria: ≥ 20 years of age and have at least 16 teeth out of which at least 2 to be molars. Subjects were excluded with systemic conditions which required antibiotic coverage for non-surgical periodontal procedures, were pregnant, allergic to tetracycline or had had antibiotic treatment during the previous 6 months	FMPS: 5 FMBS: 31	Modality: Staged Pre-treatment supragingival scaling NO Instrumentation: NR Anesthesia: YES Mouthrinse: CHX 0.2% bid during NST Number of session: 4-6 Total time of treatment: 4-6 h Span of treatment: 3 weeks	Frequency of SPT: every 3/4 months Re-evaluation: 12, 36,45,156 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 3 mm: 49% %PD ≥ 4 mm: 39% %PD ≥ 5 mm: 12%	% of pockets %PD ≥ 3 mm: 67% %PD ≥ 4 mm: 29% %PD ≥ 5 mm: 4%
Roeling B, 2001	Study Design: Non Randomized CT Sample size: 148 (Only non molar teeth) Setting & Experience: University; NR	Age: 44.5 ± 8.6 M/F: 56/43 Smokers/Non-smokers: NR	FMPS: 30 ± 29 FMBS: 66 ± 34 Inclusion criteria: Had a minimum of 8 non-molar teeth, exhibited periodontal lesions characterized by probing depths of ≥ 4 mm and CAL loss ≥ 2 mm in each quadrant, and radiographic bone loss exceeding 40% of the same tooth.	FMPS: 10 ± 12 FMBS: 25 ± 21	Modality: Staged Pre-treatment supragingival scaling NO Instrumentation: US Anesthesia: YES Mouthrinse: NO Number of session: 4-6 Total time of treatment: 4-6 h Span of treatment: 4-6 weeks	Frequency of SPT: every 3/4 months Re-evaluation: 12, 36,45,156 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 3 mm: 54 ± 23% %PD ≥ 4 mm: 33 ± 10% %PD ≥ 5 mm: 11.8 ± 1%	% of pockets %PD ≥ 3 mm: 37 ± 19% %PD ≥ 4 mm: 21 ± 14% %PD ≥ 5 mm: 7%
Seriso G, 2001	Study Design: Parallel RCT Sample size: 32 (Only non molar teeth) Setting & Experience: University; NR	Age: 43.8 ± 8.9 M/F: 15/17 Smokers/Non-smokers: NR	FMPS: 35 ± 33 FMBS: 68 ± 31 Inclusion criteria: Generalized gingival inflammation: a minimum of 12 non-molar teeth with deep pockets (≥ 6 mm) and with ≥ 2 mm alveolar bone loss	FMPS: 30 ± 13 FMBS: 30	Modality: Staged Pre-treatment supragingival scaling NR Instrumentation: US Anesthesia: YES Mouthrinse: CHX 0.2% bid, for 2 months Number of session: 4-6 Total time of treatment: NR Span of treatment: 8 weeks	Frequency of SPT: every 3/4 months Re-evaluation: 12, 36,45,156 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 3 mm: 55% %PD ≥ 4 mm: 35% %PD ≥ 5 mm: 30%	% of pockets %PD ≥ 3 mm: 55% %PD ≥ 4 mm: 29% %PD ≥ 5 mm: 10%
Westfeldt E, 1998	Study Design: Split-mouth RCT Sample size: 12 Setting & Experience: Hospital; NR	Age: 40-65 M/F: NR Smokers/Non-smokers: 9/3	FMPS: 63 ± 15 FMBS: 63 ± 14 Inclusion criteria: No known systemic disease; *at least 10 remaining teeth in each jaw; *advance periodontal disease, group 4 according to the classification system suggested by Haggstrom & Jordan (1972); *willing to return to the clinic during a three year period maintaining and performing periodontal therapy.	FMPS: 12 ± 13 FMBS: 10 ± 8	Modality: Staged Pre-treatment supragingival scaling YES Instrumentation: NR Anesthesia: NR Mouthrinse: NR Number of session: 4-5 Total time of treatment: NR Span of treatment: NR	Frequency of SPT: every 3 months Re-evaluation: 36 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 3 mm: 54 ± 11% %PD ≥ 6 mm: 8 ± 7.4%	%PD ≥ 3 mm: 38 ± 12 % %PD ≥ 6 mm: 5.3 ± 5.6%
Timmerman ME, 1996	Study Design: Parallel RCT Sample size: 20 Setting & Experience: Hospital; NR	Age: 44.0 M/F: 7/13 Smokers/Non-smokers: NR	PI: 1.96 PDI: 2.75 Inclusion criteria: At least 1 periodontal pocket of ≥ 5 mm combined with inter- proximal attachment loss of ≥ 7 mm and radiographic evidence of alveolar bone loss in one site per quadrant. At least 3 natural teeth should be present in each quadrant. The average Gingival Index (Visual aspect only, Loel & Silness, 1963) on these teeth had to be greater than 1. The plaque index (Silness & Loe, 1964) for the approximal surfaces had to be at least	PI: 0.61 PDI: 1.01	Modality: Staged half month Pre-treatment supragingival scaling NO Instrumentation: Manual & US Anesthesia: YES (if requested) Mouthrinse: NR Number of session: 2 Total time of treatment: 1h Span of treatment: NR	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: 1 tooth extracted in the test group for endodontic reasons PROMs: NR	% of pockets %PD ≥ 3 mm: 45% %PD ≥ 4 mm: 25% %PD ≥ 5 mm: 15%	% of pockets %PD ≥ 3 mm: 55% %PD ≥ 4 mm: 60% %PD ≥ 5 mm: 16% %PD ≥ 6 mm: 4%
Sato K, 1993	Study Design: Split-mouth RCT Sample size: 62 Setting & Experience: Hospital; Hygienist	Age: NR M/F: NR Smokers/Non-smokers: NR	FMPS: 18 FMBS: 19 Inclusion criteria: NR	FMPS: 18 FMBS: 10	Modality: Staged Pre-treatment supragingival scaling NO Instrumentation: NR Anesthesia: NR Mouthrinse: NR Number of session: as necessary Total time of treatment: as necessary Span of treatment: 8 weeks	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 3 mm: 49%	% of pockets %PD ≥ 3 mm: 93%
Becker W, 1988	Study Design: Split-mouth RCT Sample size: 16 Setting & Experience: Hospital; Hygienist + Periodontist	Age: 41 M/F: 11/5 Smokers/Non-smokers: NR	PI: 1.47 GI: 1.92 Inclusion criteria: Two or more sites equal to or greater than 6 mm or 4 mm or 3 mm in one site per quadrant. The anterior seven teeth of the dentitions. Posterior teeth were not included in the study.	PI: 0.42 GI: 0.75	Modality: 1 quadrant only Pre-treatment supragingival scaling YES Instrumentation: Manual & US Anesthesia: YES Mouthrinse: NO Number of session: 1 Total time of treatment: 1 h Span of treatment: 1 day	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 3 mm: 45% %PD ≥ 4 mm: 60% %PD ≥ 5 mm: 71%	% of pockets %PD ≥ 3 mm: 27% %PD ≥ 4 mm: 27% %PD ≥ 5 mm: 25%
Lindhe J, 1985	Study Design: Split-mouth RCT Sample size: 15 Setting & Experience: Hospital; NR	Age: 52 M/F: NR Smokers/Non-smokers: NR	FMPS: 80 FMBS: 91 Inclusion criteria: Advanced periodontitis: at least 4 sites per jaw quadrant had at least 4 sites per jaw quadrant with probing depths of ≥ 6 mm. They had not received any antibiotics in the past 6 months	FMPS: 22 FMBS: 21	Modality: Staged Pre-treatment supragingival scaling NO Instrumentation: Manual & US Anesthesia: YES Mouthrinse: NR Number of session: 1 Span of treatment: NR	Frequency of SPT: every 3 months Re-evaluation: 12 months	Harms: NR PROMs: NR	% of pockets %PD ≥ 3 mm:	