

Treatment of stage I-III periodontitis The EFP S3-level clinical practice guideline

Where does the need for this guideline come from?

Implementation of the new classification of periodontitis should facilitate
the use of appropriate preventive and therapeutic interventions, depending
on the stage and grade of the disease. The application of this S3-level clinical
practice guideline will allow a homogeneous and evidence-based approach to
the management of stage I-III periodontitis.

What do patients need to know?

- An essential prerequisite to therapy is to inform the patient of the diagnosis, including causes of the condition, risk factors, treatment alternatives and expected risks and benefits including explanations regarding consequences of refused treatment.
- This discussion should be followed by agreement on a personalized care plan.
- The plan might need to be modified during the treatment journey, depending on patient preferences, clinical findings and changes to overall health.

How do we interpret these infographics?

Blue colour: Recommendations in favor of a particular

strategy of treatment or specific procedure.

Open recommendation in which the

Orange colour: clinician is responsible for the final choice of a particular strategy of treatment or specific procedure based on specific patient

characteristics.

Uncertain recommendation for whose clarification further research is needed.

Red colour: Recommendations against a particular

strategy of treatment or specific procedure.

Grade of recommendation grade ^a	Description	Syntax
Α	Strong recommendation	We recommend We recommend not to
В	Recommendation	We suggest We suggest not to
0	Open recommendation	May be considered

^a If the group felt that evidence was not clear enought to support a recommendation, statements were formulated, including the need (or not) of additional research.

TABLE

Strengh of recommendations: grading scheme (German Association of the Scientific Medical Societies (AWMF) and Standing Guidelines Commision, 2012) Aim: guiding behaviour change by motivating the patient to undertake:

- · Successful removal of supragingival dental biofilm.
- · Risk factor control.

It should be implemented in all periodontitis patients, irrespective of the stage of their disease.

It should be frequently re-evaluated in order to:

- · Continue to build motivation and adherence, or explore other alternatives to overcome the barriers.
- · Develop skills in dental biofilm removal and modify as required.
- · Allow for the appropriate response of the ensuing steps of therapy.

Patient supragingival dental biofilm control

Recommended interventions



Recommended



Suggested



Oral hygiene practices are crucial throughout all steps of treatment and achieved through patient engagement in behavioural changes (see specific recommendations in the section 'Supportive periodontal care').

Unclear



Motivational interviewing

or cognitive behavioural therapy have not shown a significant impact.

Professional supragingival dental biofilm control

Recommended interventions



Recommended



Suggested



and control of plaque retentive factors is a fundamental part of the first step of therapy.

Professional mechanical plaque removal (PMPR)

Risk factor control

Recommended interventions







is recommeded as part of the first step of treatment.



as part of the first step of treatment.

Unclear

interventions are recommeded



interventions are necessary.



has an impact.



reducing weight through dietary and lifestyle has an impact.

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https://onlinelibrary.wiley.com/doi/10.1111/jcpe.13290



Aim:

- · Controlling (reducing/eliminating) the subgingival biofilm and calculus (subgingival instrumentation) with possible removal of root surface (cementum).
- · Subgingival instrumentation may be supplemented with the following adjunctive interventions: physical or chemical agents, host-modulating agents (local or systemic), topical antimicrobials, subgingival locally delivered or systemic antimicrobials.
- · It should be implemented in all periodontitis patients, irrespective of the stage of their disease and it should be re-evaluated after an adequate healing period.

Subgingival instrumentation

Recommended interventions



Recommended



Suggested



Subgingival instrumentation is recommended to treat pocket dephts, gingival

periodontitis with reduction of inflammation and the number of diseased sites.



instrumentation is performed with **hand or**

powered (sonic/ultrasonic) instruments, either alone or in combination.



Subgingival periodontal instrumentation can be performed with either 24 hours.

traditional quadrant-wise or full mouth delivery within

Use of adjunctive physical agents to subgingival instrumentation

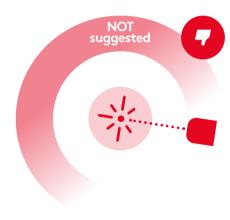
Not recommended



NOT recommended

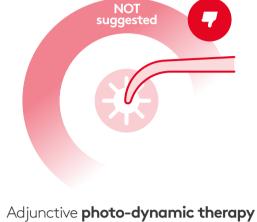


NOT suggested



to subgingival instrumentation are not suggested.

Lasers as adjunct



at wavelength ranges of either 660-670 nm or 800-900 nm is not suggested as adjunct to subgingival instrumentation.

(local or systemic) to subgingival instrumentation

Use of adjunctive antiseptics/antibiotics

Not recommended



NOT recommended





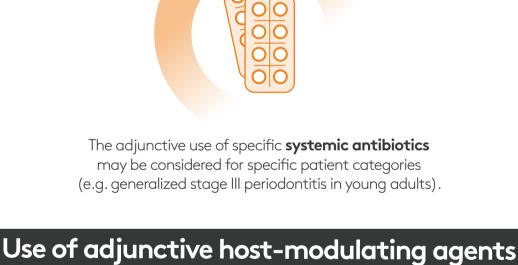
Open recommendation

Routine use of systemic antibiotics as adjunct to subgingival instrumentation in patients with periodontitis is not recommended.









(local or systemic) to subgingival instrumentation **Not** recommended NOT recommended NOT suggested

Systemic administration of sub-antimicrobial dose doxycycline is not suggested.



Administration of **statin gels /** systemic or local bisphosphonates / systemic or local nonsteroidal anti-inflammatory drug / omega-3 polyunsaturated fatty acids and metformin gel are not recommended to be added to subgingival instrumentation.

Probiotics are not suggested as an adjunct to subgingival instrumentation.

Re-evaluation after step 2



Endpoints: · No periodontal pockets ≥ 5 mm with bleeding on probing.

- · No deep pockets [≥ 6 mm]. If these endpoints are achieved, the patient should join a SPC program.

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Aim:

Treating those sites non-responding adequately to the second step of therapy with the purpose of getting access to deep pocket sites, or aiming at regenerating or resecting those lesions, that add complexity in the management of periodontitis (infrabony and furcation lesions).

If periodontal pockets > 4 mm with bleeding on probing and/or deep pockets [≥ 6 mm] are still present at re-evaluation, different options for step 3 can be considered:

- · Repeated subgingival instrumentation with or without adjunctive therapies. · Access flap periodontal surgery.
- · Resective periodontal surgery.
- · Regenerative periodontal surgery.

General aspects of step 3

Recommended interventions





Suggested

Suggested

4-5 mm

In presence of moderately

deep residual pockets

(4-5 mm), **non-surgical**

subgingival

NOT suggested



performed by dentists with additional specific training or by specialists.

Surgery should be



with or without access flap of the area, in the context of high-quality step 1 and 2 treatment, and a frequent program of supportive periodontal care including subgingival instrumentation, are recommended.

NOT recommended

instrumentation should be repeated.



Not recommended

Access and resective surgery

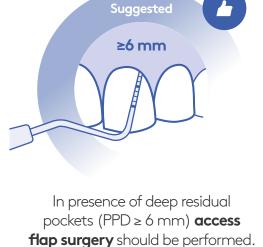
Surgery should not performed in patients not achieving adequate levels of self-performed oral hygiene.

Recommended interventions Recommended





Suggested



Management of intrabony defects

Teeth with residual deep pockets

associated with intrabony

defects 3 mm or deeper

should be treated with

periodontal regenerative

surgery.

Periodontal therapy

is recommended in molars with

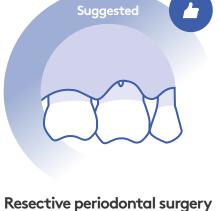
class II and III furcation

involvement and residual pockets.

Furcation involvement is no reason

for **extraction**.





Suggested

Recommended

is recommended but increase

of gingival recession is possible.

Recommended interventions Recommended

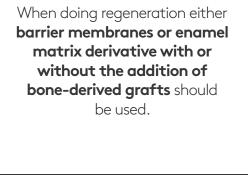
Recommended



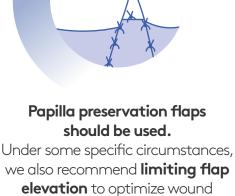
Recommended interventions



Recommended



Management of furcation lesions

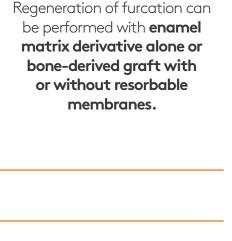


stability and reduce morbidity.

Suggested







In class III furcation defects and maxillary interdental class II or multiple class II defects, nonsurgical instrumentation, open flap debridement, tunneling, root separation or root resection may be considered.



Endpoints:

No periodontal pockets ≥ 5 mm with bleeding on probing.

the original article: "Treatment of stage I-III periodontitis - The EFP S3-level clinical guideline" by Sanz and coworkers, J Clin Periodontology 2020. https://onlinelibrary.wiley.com/doi/10.1111/jcpe.13290

 No deep pockets [≥ 6 mm]. If these endpoints are achieved, the patient should join a SPC program.

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STEP 4: Supportive periodontal care (SPC)

Aim:

Preventing periodontitis recurrence/progression after successful completion of active treatment. It must be performed in all patients, regarding their condition of being at high risk for periodontitis recurrence/progression. This step comprises specifically designed supportive periodontal care (SPC), consisting on a combination of preventive and therapeutic interventions rendered at different intervals:

· NO presence of deep periodontal pockets [≥ 6 mm].

· NO presence of pockets > 4 mm with bleeding on probing.

Professional care

Recommended interventions



months, and ought to be tailored

Supportive periodontal care

visits should be scheduled at

intervals of 3 to a maximum of 12

according to patient's risk profile and periodontal conditions after active therapy.



Recommended

for long-term periodontal stability and potential further improvements in periodontal status.

Suggested



Suggested

instructions in mechanical oral hygiene, including interdental cleaning, in order to control

inflammation and avoid

potential damage for patients

in supportive periodontal care.



Recommended

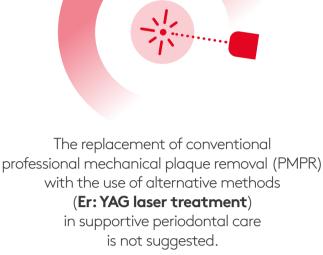
Not recommended NOT recommended NOT suggested NOT suggested

as a part of supportive periodontal care, to limit the rate of tooth loss and provide periodontal stability/improvement.



is not suggested.

Recommended interventions



Supragingival biofilm control by the patient



Taking into account patients

needs and preferences when

choosing a toothbrush and

interdental brush design.



Open recommendation

Tooth brushing should be supplemented by the use of

interdental brushes.



NOT suggested

In interdental areas not reachable

by toothbrushes, supplementing

tooth brushing with the use of

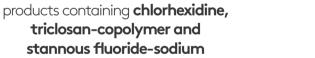
other interdental cleaning devices in periodontal maintenance patients is suggested.



Flossing is not suggested as a first choice of interdental cleaning in periodontal maintenance patients.

Adjunctive measures for gingival inflammation

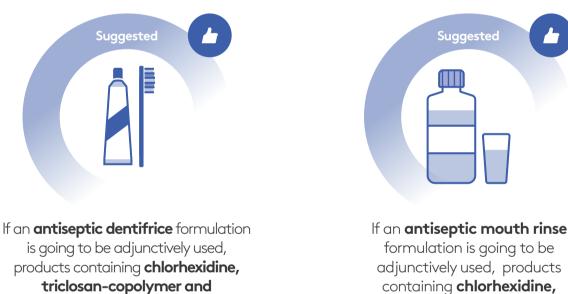




hexametaphosphate are suggested.

Suggested

The use of adjunctive antiseptics may be considered in periodontitis patients in supportive periodontal care in helping to control gingival inflammation, in specific cases.



Open recommendation

Suggested

essential oils and cetylpyridinium

chloride are suggested.

Unclear



Diabetes control

Tobacco smoking cessation interventions needs to be interventions are necessary. implemented.



lifestyle modification has an impact in patients in supportive periodontal care.

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Recommended

Suggested

Suggested