

# 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.

Orange colour: Open recommendation in which the

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 <sup>a</sup>	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

# <sup>a</sup> 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.



## interventions are recommeded as part of the first step of treatment.



**interventions** are necessary.

**Unclear** 





and lifestyle has an impact.



This document is a graphic adaptation of the actual clinical practice guidelines and the reader is referred for the correct explanation to



## 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

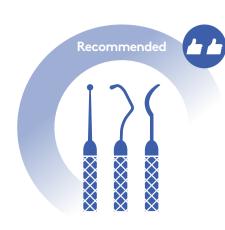
# **Recommended** interventions



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 traditional quadrant-wise or full mouth delivery within 24 hours.

# Use of adjunctive physical agents to subgingival instrumentation

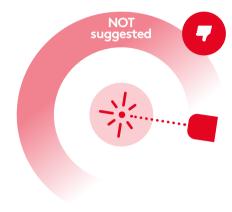
# **Not** recommended



**NOT recommended** 

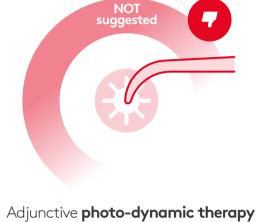


**NOT suggested** 



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.

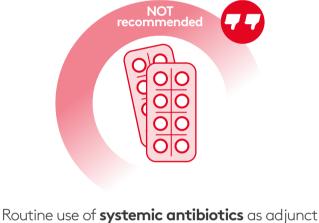
# (local or systemic) to subgingival instrumentation **Not** recommended **NOT recommended NOT suggested**

Use of adjunctive antiseptics/antibiotics







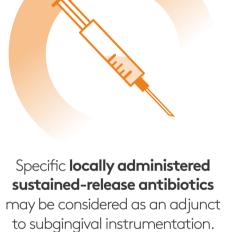


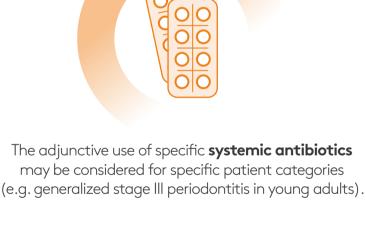
**Open** recommendation

to subgingival instrumentation in patients with periodontitis is not recommended.









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

Use of adjunctive host-modulating agents





**Probiotics** are not

suggested as an adjunct

to subgingival

instrumentation.

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.

Re-evaluation after step 2



· 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.

Endpoints:

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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



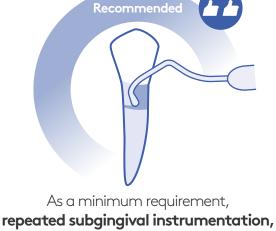


Suggested

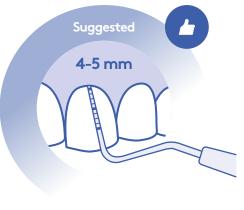


performed by dentists with additional specific training or by specialists.

**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.



deep residual pockets (4-5 mm), **non-surgical** subgingival instrumentation should be repeated.

In presence of moderately

**Not** recommended



**NOT** recommended



**NOT suggested** 



Access and resective surgery

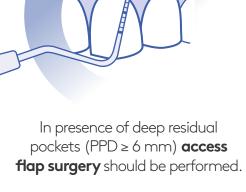
in patients not achieving adequate levels of self-performed oral hygiene.

## **Recommended** interventions Recommended





Suggested



Suggested

≥6 mm

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

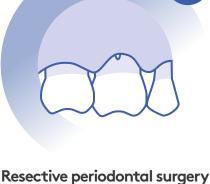
involvement and residual pockets.

Furcation involvement is no reason

for **extraction**.



Suggested



Suggested

Recommended

is recommended but increase

of gingival recession is possible.

## **Recommended** interventions Recommended

Recommended

When doing regeneration either

barrier membranes or enamel

matrix derivative with or without the addition of

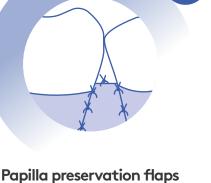
bone-derived grafts should

be used









should be used. Under some specific circumstances,

we also recommend limiting flap

elevation to optimize wound

stability and reduce morbidity.

Management of furcation lesions **Recommended** interventions Recommended

Suggested





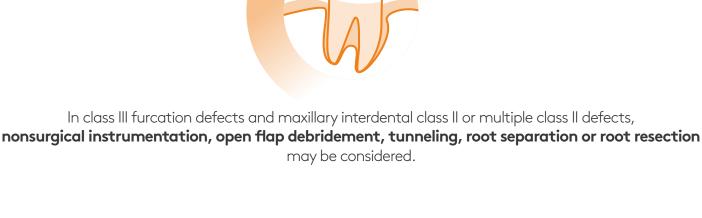
Class II furcation on

mandibular teeth and class II

buccal furcation on maxillary



# Open recommendation



Re-evaluation after step 3



## 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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www.efp.org

# **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

**Recommended** interventions



months, and ought to be tailored according to patient's risk profile

visits should be scheduled at

intervals of 3 to a maximum of 12

and periodontal conditions after active therapy.



Recommended

stability and potential further improvements in periodontal status.

for long-term periodontal

Suggested



Suggested

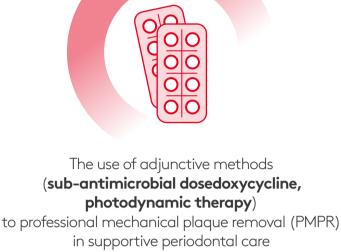
**instructions** in mechanical oral hygiene, including interdental cleaning, in order to control

inflammation and avoid potential damage for patients in supportive periodontal care.



NOT suggested

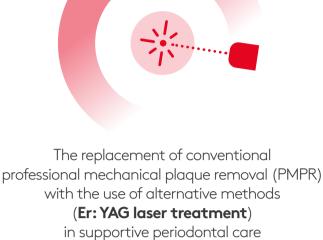
NOT recommended



is not suggested.

**Not** recommended

**Recommended** interventions



NOT suggested

Supragingival biofilm control by the patient

Recommended

is not suggested.

# **Suggested**



Taking into account patients

needs and preferences when

choosing a toothbrush and

interdental brush design.





is suggested.

Suggested

**Open** recommendation

NOT suggested

Suggested



**Flossing** is not suggested as a first choice of interdental cleaning

in periodontal maintenance patients.

Adjunctive measures for gingival inflammation

Recommended

Suggested

If an antiseptic mouth rinse

formulation is going to be

adjunctively used, products

containing chlorhexidine,

essential oils and cetylpyridinium

chloride are suggested.

**Recommended** interventions

Suggested

If an **antiseptic dentifrice** formulation

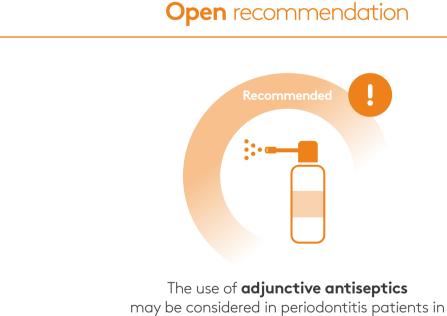
is going to be adjunctively used,

products containing chlorhexidine,

triclosan-copolymer and

stannous fluoride-sodium

**hexametaphosphate** are suggested.







Tobacco smoking cessation

# supportive periodontal care in helping to control gingival inflammation, in specific cases. **Unclear**

Suggested

Suggested

**Diabetes control** 

## interventions needs to be interventions are necessary. implemented.

**Unclear** 



It is not known if increasing the physical activity and reducing weight through dietary and **lifestyle modification** has an impact in patients in supportive periodontal care.

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