

EFP Staging Parameters

(by Prof. Tonetti)

Periodontitis stage *TONETTI ET AL.*

Periodontitis stage		Stage I	Stage II	Stage III	Stage IV
Severity	Interdental CAL at site of greatest loss	1 to 2 mm	3 to 4 mm	≥ 5 mm	≥ 5 mm
	Radiographic bone loss	Coronal third (<15%)	Coronal third (15% to 33%)	Extending to mid-third of root and beyond	Extending to mid-third of root and beyond
	Tooth loss	No tooth loss due to periodontitis		Tooth loss due to periodontitis of ≤4 teeth	Tooth loss due to periodontitis of ≥5 teeth
Complexity	Local	Maximum probing depth ≤4 mm Mostly horizontal bone loss	Maximum probing depth ≤5 mm Mostly horizontal bone loss	In addition to stage II complexity: Probing depth ≥6 mm Vertical bone loss ≥3 mm Furcation involvement Class II or III Moderate ridge defect	In addition to stage III complexity: Need for complex rehabilitation due to: Masticatory dysfunction Secondary occlusal trauma (tooth mobility degree ≥2) Severe ridge defect Bite collapse, drifting, flaring Less than 20 remaining teeth (10 opposing pairs)
Extent and distribution	Add to stage as descriptor	For each stage, describe extent as localized (<30% of teeth involved), generalized, or molar/incisor pattern			

EFP Grading Parameters

(modified by the University of Helsinki, Prof. T. Sorsa)*

Periodontitis grade *TONETTI ET AL.*

Periodontitis grade		Grade A: Slow rate of progression	Grade B: Moderate rate of progression	Grade C: Rapid rate of progression
Primary criteria	Direct evidence of progression	Longitudinal data (radiographic bone loss or CAL)	Evidence of no loss over 5 years	<2 mm over 5 years ≥2 mm over 5 years
	Indirect evidence of progression	% bone loss/age	<0.25	0.25 to 1.0 >1.0
		Case phenotype	Heavy biofilm deposits with low levels of destruction	Destruction commensurate with biofilm deposits Destruction exceeds expectation given biofilm deposits; specific clinical patterns suggestive of periods of rapid progression and/or early onset disease (e.g., molar/incisor pattern; lack of expected response to standard bacterial control therapies)
Grade modifiers	Risk factors	Smoking	Non-smoker	Smoker <10 cigarettes/day Smoker ≥10 cigarettes/day
		Diabetes	Normoglycemic/ no diagnosis of diabetes	HbA1c <7.0% in patients with diabetes HbA1c ≥7.0% in patients with diabetes
Risk of systemic impact of periodontitis ^a	Inflammatory burden	High sensitivity CRP (hsCRP)	<1.0 mg/L	1.0 to 3.0 mg/L ≥3.0 mg/L
* Biomarkers	Indicators of CAL/bone loss or collagene destruction	Saliva, gingival crevicular fluid, serum	No/Slow = aMMP-8 level <10 ng/ml (no) OR 10–19.9 ng/ml (slow)	Moderate = aMMP-8 level > 20 ng/ml Rapid = aMMP-8 level >> 20 ng/ml (~60 ng/ml, Status 2018) substantially elevated plus co-factors