

## Supplementary File- Certain of evidence by GRADE analyze

**Question:** [Probiotic] compared to [Chlorhexidine] for [problem periodontal]

Certainty assessment							№ of patients		Effect		Certainty	Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	[Probiotic]	[Chlorhexidine]	Relative (95% CI)	Absolute (95% CI)		

**Gingival index (follow-up: range 1 weeks to 4 weeks)**

10	randomised trials	not serious	very serious <sup>a</sup>	not serious	serious <sup>b</sup>	none	160	160	-	MD 0.03 lower (0.09 lower to 0.04 higher)	⊕○○○ Very low	CRITICAL
----	-------------------	-------------	---------------------------	-------------	----------------------	------	-----	-----	---	--	------------------	----------

**Gingival index outliers removal (follow-up: range 1 weeks to 4 weeks)**

8	randomised trials	not serious	very serious <sup>a</sup>	not serious	serious <sup>b</sup>	none	120	120	-	0 (0 to 0 )	⊕○○○ Very low	CRITICAL
---	-------------------	-------------	---------------------------	-------------	----------------------	------	-----	-----	---	----------------	------------------	----------

**Paque index (follow-up: range 1 weeks to 4 weeks)**

15	randomised trials	not serious	very serious <sup>a</sup>	not serious	serious <sup>b</sup>	none	261	260	-	MD 0.11 higher (0.05 lower to 0.28 higher)	⊕○○○ Very low	CRITICAL
----	-------------------	-------------	---------------------------	-------------	----------------------	------	-----	-----	---	---	------------------	----------

**Plaque index outliers removal (follow-up: range 1 weeks to 4 weeks)**

14	randomised trials	not serious	very serious <sup>a</sup>	not serious	serious <sup>b</sup>	none	241	240	-	0 (0 to 0 )	⊕○○○ Very low	CRITICAL
----	-------------------	-------------	---------------------------	-------------	----------------------	------	-----	-----	---	----------------	------------------	----------

**Oral Hygiene Index outliers removal (follow-up: range 1 weeks to 4 weeks)**

5	randomised trials	not serious	not serious	not serious	serious <sup>b</sup>	none	75	75	-	MD 0.01 lower (0.05 lower to 0.04 higher)	⊕⊕⊕○ Moderate	CRITICAL
---	-------------------	-------------	-------------	-------------	----------------------	------	----	----	---	--	------------------	----------

**Plaque index (follow-up: 4 weeks)**

4	randomised trials	not serious	not serious	not serious	serious <sup>b</sup>	none	68	67	-	MD 0.16 higher (0.09 higher to 0.23 higher)	⊕⊕⊕○ Moderate	CRITICAL
---	-------------------	-------------	-------------	-------------	----------------------	------	----	----	---	--	------------------	----------

CI: confidence interval; MD: mean difference

### Explanations

a. There is considerable statistically significant heterogeneity (>75%)

b. Confidence interval crosses null value or includes values favoring either treatment