CRIS Guidelines (Checklist for Reporting *In-vitro* Studies) *

Section/Topic	Item No	Checklist item	Reported on Page No
Title and Abstract			
	1a	Identification as an in vitro/laboratory study in the title	1
	1b	Structured summary of trial design, methods, results, and conclusions	1
Introduction			
Backgrounds and Objectives	2a	Scientific background and explanation of rationale	2-3
	2b	Specific objective or hypothesis	2
Methods			
Interventions	3	The intervention for each group, including how and when they were actually administered, with sufficient detail to allow replication	2-4
Outcomes	4	Completely defined pre-specified primary and secondary outcome measures, including how and when they were assessed	4-7
Sample Size	5	How sample size was determined	2
Randomization: Sequence Generation	6	Method used to generate the random allocation sequence	2
Allocation concealment	7	Mechanism used to implement the random allocation sequence (such as sequentially numbered containers), describing any steps taken to conceal the sequence until interventions were assigned	2
Implementation	8	Who generated the random allocation sequence, who enrolled teeth, and who assigned teeth to intervention	2
Blinding	9	If done, who was blinded after assignment to interventions (for example, care providers, those assessing outcomes) and how	-
Statistical Methods	10	Statistical methods used to compare groups for primary and secondary outcomes	5
Results			
Numbers analyzed	11a	For each group, number of 'items' (tooth specimens) included in each analysis and whether the analysis was by original assigned groups	5

Outcomes and estimation	11b	For each primary and secondary outcome, results for each group, and the estimated effect size and its precision (such as 95% confidence interval)	14-16 (Table 2-4)
Discussion			
Limitations	12a	Trial limitations, addressing sources of potential bias, imprecision, and, if relevant, multiplicity of analyses	7
Generalisability	12b	Generalisability (external validity, applicability) of the trial findings	6,7
Interpretation	12c	Interpretation consistent with results, balancing benefits and harms, and considering other relevant evidence	7
Other Information			
Protocol	13	Where the full trial protocol can be accessed, if available	-
Funding	14	Sources of funding and other support (such as supply of drugs), role of funders	7

*This checklist was developed by the authors based on the following sources:

1. Krithikadatta J, Gopikrishna V, Datta M. CRIS Guidelines (Checklist for Reporting In-vitro Studies): A concept notes on the need for standardized guidelines for improving quality and transparency in reporting in-vitro studies in experimental dental research. J Conserv Dent. 2014;17(4):301–304.

2. Faggion CM Jr. Guidelines for reporting pre-clinical in vitro studies on dental materials. J Evid Based Dent Pract. 2012;12(4):182–189.