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	Title page
	1b	Structured summary of trial design, methods, results, and conclusions	2
Introduction			
	2a	Scientific background and explanation of rationale	3
	2b	Specific objectives or hypotheses	3
Methods			
Interventions	3	The intervention for each group, including how and when they were actually administered, with sufficient detail to allow replication	4,5
Outcomes	4	Completely defined pre-specified primary and secondary outcome measures, including how and when they were assessed	6
Sample size	5	How sample size was determined	5
Randomization:			
Sequence generation	6	Method used to generate the random allocation sequence	NA
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	NA
Implementation	8	Who generated the random allocation sequence, who enrolled teeth, and who assigned teeth to intervention	NA
Blinding	9	If done, who was blinded after assignment to interventions (for example, care providers, those assessing outcomes) and how	NA
Statistical methods	10	Statistical methods used to compare groups for primary and secondary outcomes	5
Results			
Numbers analysed	11a	For each group, number of 'items' (drugs) included in each analysis and whether the analysis was by original assigned groups	19 (Table 1)
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)	8,9,19 (Tables 2-4)
Discussion			

Limitations	12a	Trial limitations, addressing sources of potential bias, imprecision, and, if relevant, multiplicity of analyses	14,15
Generalizability	12b	Generalizability (external validity, applicability) of the trial findings	11-13
Interpretation	12c	Interpretation consistent with results, balancing benefits and harms, and considering other relevant evidence	10-14
Other Information			
Protocol	13	Where the full trial protocol can be accessed, if available	NA
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 note 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. 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.
3. www.consort-statement.org.