***Supplement 1.***

Search strategy used in the databases

(((((("Dental Caries"[Mesh]) OR caries[Title/Abstract])) AND (((((prevent\*[Title/Abstract]) OR control\*[Title/Abstract]) OR treat\*[Title/Abstract]) OR progress\*[Title/Abstract]) OR avoid[Title/Abstract]))) AND (((((fluoride\*) AND (((((((((\*wash[Title/Abstract]) OR \*rinse[Title/Abstract]) OR gel[Title/Abstract]) OR foam[Title/Abstract]) OR \*paste[Title/Abstract]))))) OR ((((((toothpaste[Title/Abstract]) OR supplements[Title/Abstract]) OR gums[Title/Abstract]) OR drops[Title/Abstract]) OR \*rinse[Title/Abstract]) OR varnishes[Title/Abstract])) OR topical[Title/Abstract])))) OR "Fluorides, Topical"[Mesh])) Filters: Publication date from 2003/01/01

(((((("Dental Caries"[Mesh]) OR caries[Title/Abstract])) AND (((((prevent\*[Title/Abstract]) OR control\*[Title/Abstract]) OR treat\*[Title/Abstract]) OR progress\*[Title/Abstract]) OR avoid[Title/Abstract]))) AND (((((fluoride\*) AND (((((((((\*wash[Title/Abstract]) OR \*rinse[Title/Abstract]) OR gel[Title/Abstract]) OR foam[Title/Abstract]) OR \*paste[Title/Abstract]))))) OR ((((((toothpaste[Title/Abstract]) OR supplements[Title/Abstract]) OR gums[Title/Abstract]) OR drops[Title/Abstract]) OR \*rinse[Title/Abstract]) OR varnishes[Title/Abstract])) OR topical[Title/Abstract])))) OR "Fluorides, Topical"[Mesh])) AND (((((clinical[Title/Abstract] AND trial[Title/Abstract]) OR clinical trials[MeSH Terms] OR clinical trial[Publication Type] OR random\*[Title/Abstract] OR random allocation[MeSH Terms] OR therapeutic use[MeSH Subheading]))) Filters: Publication date from 2003/01/01

***Supplement 2.***

**Table 5**. Excluded papers

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First author, year Topic Main reason for exclusion

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Altenburger, 2007 Fluoride mouth rinse In situ study

Altenburger, 2008 Fluoride gel In situ study

Bonow, 2013 APF gel Small sample size

Calvo, 2012 APF gel In situ study

Delbem, 2010 Fluoride gel and foam In situ study

Divaris, 2012 School-based FMR Retrospective quasi-experimental, no controls

Duarte, 2008 Fluoride mouth rinse No controls

Krithikadatta, 2013 Fluoride mouth rinse Small sample size

Laheij, 2010 Fluoride mouth rinse In situ study

Martinez, 2012 Fluoride gel Small sample size, no controls

Nakamura, 2009 Fluoride moth rinse FMR combined with fissure sealants

Paraskevas, 2004 Fluoride mouth rinse No controls

Songsiripradubboon, 2014 Fluoride mouth rinse In situ study

Vale, 2011 APF gel In situ study

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***Supplement 3***

**Reference list – Excluded papers**

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Nakamura A, Sakuma S, Yoshihara A, Deguchi T, Yagi M, Miyazaki H. Long-term follow-up of the effects of a school-based caries preventive programme involving fluoride mouth rinse and targeted fissure sealant: evaluation at 20 years old. Int Dent J 2009;59:215-221.

Paraskevas S, Danser MM, Timmerman MF, van der Velden U, van der Weijden GA. Amine fluoride/stannous fluoride and incidence of root caries in periodontal maintenance patients. A 2 year evaluation. J Clin Periodontol 2004;31:965-371.

Songsiripradubboon S, Hamba H, Trairatvorakul C, Tagami J. Sodium fluoride mouthrinse used twice daily increased incipient caries lesion remineralization in an in situ model. J Dent 2014;42:271-278.

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