

Supplementary Appendix 1: Search strategy

Database	Keywords used	Number of articles found
PubMed	((("Cancer of Mouth" OR "Mouth Cancers" OR "Oral Cancer" OR "Cancer, Oral" OR "Cancers, Oral" OR "Oral Cancers" OR "Cancer of the Mouth" OR "Mouth Cancer" OR "Cancer, Mouth" OR "Cancers, Mouth" OR "Squamous Cell Carcinoma of the Head and Neck" OR "Squamous Cell Carcinoma, Head and Neck" OR "Carcinoma, Squamous Cell of Head and Neck" OR "Head and Neck Squamous Cell Carcinoma" OR "Condition, Precancerous" OR "Conditions, Precancerous" OR "Precancerous Condition" OR "Condition, Preneoplastic" OR "Preneoplastic Condition" OR "Preneoplastic Conditions" OR "Conditions, Preneoplastic" OR "Leukoplakias, Oral" OR "Oral Leukoplakia" OR "Oral Leukoplakias")) AND ("Trace Element" OR "Element, Trace" OR "Elements, Trace" OR "Biometals" OR "Biometal" OR "Trace Minerals" OR "Mineral, Trace" OR "Minerals, Trace" OR "Trace Mineral" OR "Electrolytes" OR "Ions" OR "Anions +" OR "Cations +" OR "Polyelectrolites" OR "Phosphorus" OR "Sodium" OR "Calcium" OR "Magnesium" OR "Zinc" OR "Cooper" OR "Iron")) AND ("Saliva" OR "Salivas")	95
Scopus	("Cancer of Mouth" OR "Mouth Cancers" OR "Oral Cancer" OR "Cancer, Oral" OR "Cancers, Oral" OR "Oral Cancers" OR "Cancer of the Mouth" OR "Mouth Cancer" OR "Cancer, Mouth" OR "Cancers, Mouth" OR "Squamous Cell Carcinoma of the Head and Neck" OR "Squamous Cell Carcinoma, Head and Neck" OR "Carcinoma, Squamous Cell of Head and Neck" OR "Head and Neck Squamous Cell Carcinoma" OR "Condition, Precancerous" OR "Conditions, Precancerous" OR "Precancerous Condition" OR "Condition, Preneoplastic" OR "Preneoplastic Condition" OR "Preneoplastic Conditions" OR "Conditions, Preneoplastic" OR "Leukoplakias, Oral" OR "Oral Leukoplakia" OR "Oral Leukoplakias") AND ("Trace Element" OR "Element, Trace" OR "Elements, Trace" OR "Biometals" OR "Biometal" OR "Trace Minerals" OR "Mineral, Trace" OR "Minerals, Trace" OR "Trace Mineral" OR "Electrolytes" OR "Ions" OR "Anions +" OR "Cations +" OR "Polyelectrolites" OR "Phosphorus" OR "Sodium" OR "Calcium" OR "Magnesium" OR "Zinc" OR "Cooper" OR "Iron") AND ("Saliva" OR "Salivas")	741
Web of Science	TS=("Cancer of Mouth" OR "Mouth Cancers" OR "Oral Cancer" OR "Cancer, Oral" OR "Cancers, Oral" OR "Oral Cancers" OR "Cancer of the Mouth" OR "Mouth Cancer" OR "Cancer, Mouth" OR "Cancers, Mouth" OR "Squamous Cell Carcinoma of the Head and Neck" OR "Squamous Cell Carcinoma, Head and Neck" OR "Carcinoma, Squamous Cell of Head and Neck" OR "Head and Neck Squamous Cell Carcinoma" OR "Condition, Precancerous" OR "Conditions, Precancerous" OR "Precancerous Condition" OR "Condition, Preneoplastic" OR "Preneoplastic Condition" OR "Preneoplastic Conditions" OR "Conditions, Preneoplastic" OR "Leukoplakias, Oral" OR "Oral Leukoplakia" OR "Oral Leukoplakias" AND TS= ("Trace Element" OR "Element, Trace" OR "Elements, Trace" OR "Biometals" OR "Biometal" OR "Trace Minerals" OR "Mineral, Trace" OR "Minerals, Trace" OR "Trace Mineral" OR "Electrolytes" OR "Ions" OR "Anions +" OR "Cations +" OR "Polyelectrolites" OR "Phosphorus" OR "Sodium" OR "Calcium" OR "Magnesium" OR "Zinc" OR "Cooper" OR "Iron" AND TS= ("Saliva" OR "Salivas")	45