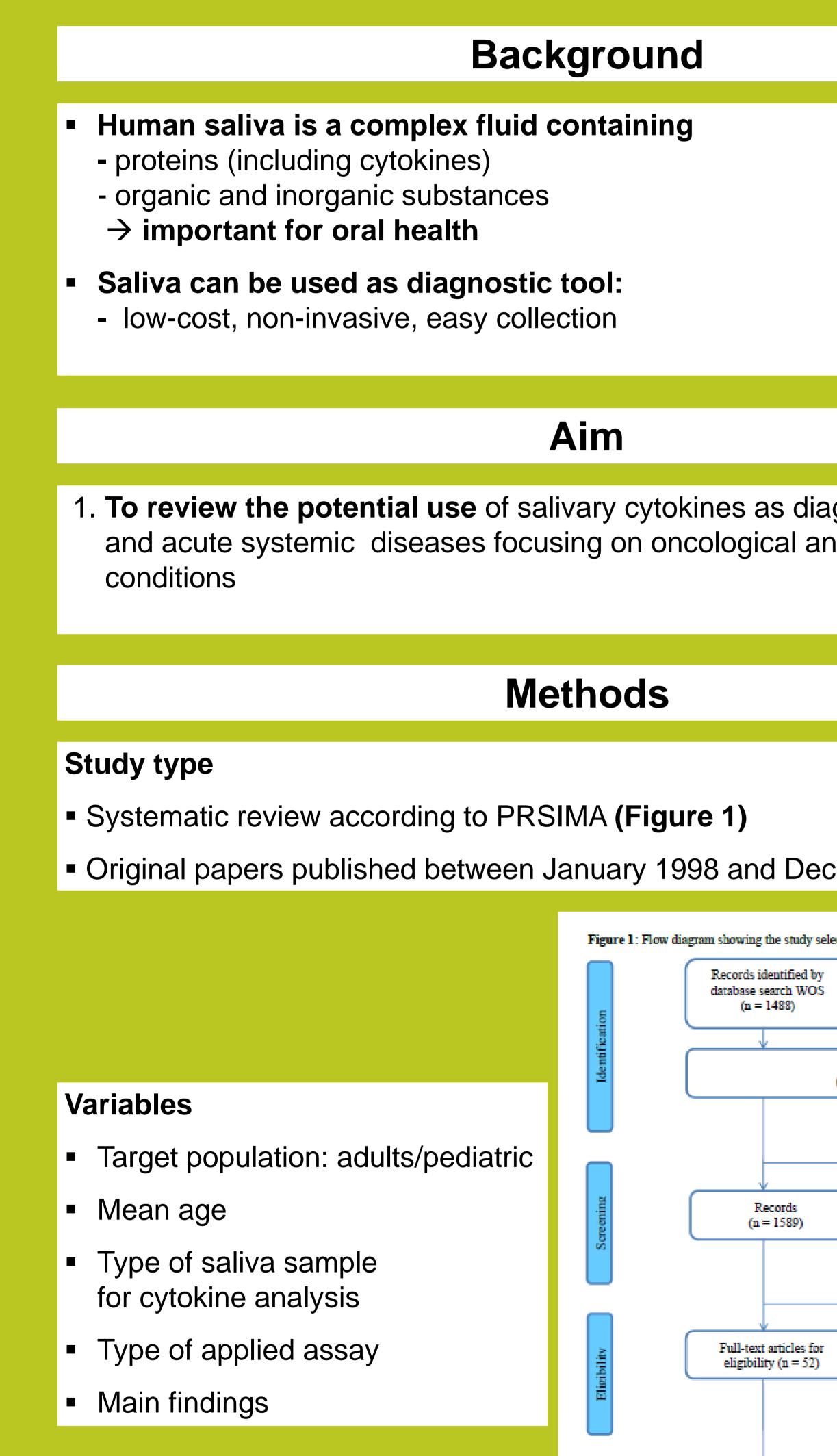
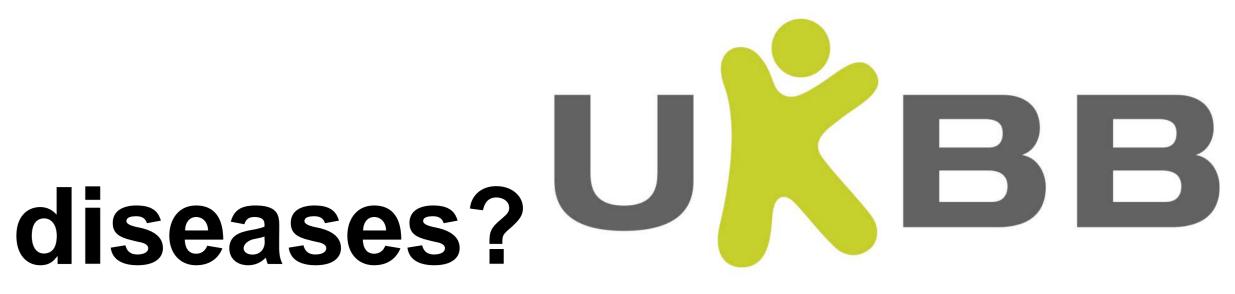
Are salivary cytokines biomarkers in oncological and infectiuos diseases? UKBB - A systematic review

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	Results	Results
	 1603 Publications were identified 34 Studies were included from 13 different countries 8 Studies only in children 24 Studies in adults only 	 Cytokine analysis (ELISA or xMAP) n = 24 in saliva only n = 8 in saliva and blood n = 1 saliva and buccal epithelia n = 1 saliva, blood and tissue
ines as diagnostic tool in oral cological and infectious	Summary of analyzed cytokines in > 2 studies ** First author Year of Ppublication Time point 1 1 1 <td> In 30 studies unstimulated saliva was used The most investigated cytokines were IL-6 (67%) Tumor necrosis factor (TNF)-α (44%) IL-10 (41%) </td>	 In 30 studies unstimulated saliva was used The most investigated cytokines were IL-6 (67%) Tumor necrosis factor (TNF)-α (44%) IL-10 (41%)
	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Discussion IL-1β, IL-2, IL-6 and TNF-α are associated with severity of oral mucosal
e 1) 08 and December 2019	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	 tissue damage -> early therapeutic intervention before quality of life of pts is impaired IL-10 was associated with GvHD, IL-1β might predicted GvHD development IFN-γ concentrations correlate with HIV infection and oral complications IL-1α, IL-1β, IL-6, IL-8 and TNF-α levels were associated with oral dysplasia or cancer
Records identified by database search WOS (n = 1488)	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Limitations Heterogenity of studies (different collection methods, time of collection) Not considered in the analyzed studies the influence of:
(n = 1389) Records excluded after abstract screening (n = 1537) Full-text articles for eligibility (n = 52)	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	- age - smoking - dietary composition - hygiene standards
Full articles excluded (n = 18)	Russo 2016 10	Conclusions Saliva interesting biological fluid useful in children and in countries with limited resources
	Knoaus 2005 10 Not analysed Slightly decreased Slightly elevated Decreased Elevated No changes	for diagnosing and monitoring of oral and systemic diseases



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