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Salivary biomarkers in the diagnosis of oral potentially malignant disorders: A systematic review and meta-analysis

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The aim of this systematic review was to evaluate the accuracy of salivary biological markers in the diagnostic of oral potentially malignant disorders (OPMD). This study followed the preferred reporting items for systematic reviews and meta-analyses checklist. Studies were gathered by searching EMBASE, LILACS, PubMed, Science Direct, Scopus and Web of Science. A grey literature search was undertaken using Google Scholar, ProQuest and Open Grey. The search was performed on January 13, 2016, with no time and language restrictions. Selected studies were evaluated according the quality assessment tool for diagnostic accuracy studies. 6 studies were identified and subjected to qualitative and quantitative analyses. The studies were homogeneous and all had high methodological quality, so it was possible to make the meta-analysis of data. Additional analysis was performed using, diagnostic odds ratio (DOR) and Youden index (YI). 8-hydroxydeoxyguanosine, an oxidative stress marker when combined with malondialdehyde and vitamin C or E demonstrated better accuracy (YI=0.64, DOR=20.75 and 20.81, respectively) with higher sensitivity and specificity, in oral leukoplakia, oral lichen planus and oral submucous fibrosis. A single biomarker CD4+CD25+Regulatory T cells had a better accuracy diagnostic (YI=0.73, DOR=43.94), in oral lichen planus. There is currently limited evidence to confirm the putative implementation of salivary biomarkers as diagnostic tools for OPMD. Although, there are few studies on this topic, current systematic review provides new research directions.

Biography

Daniela Fortunato Rêgo has graduate in Dentistry from University of Brasilia. She has completed her Post-graduation (Latu sensu) in Health Evaluation from Oswaldo Cruz Foundation (2013) and Master's degree in Health Sciences (Oral Health) from University of Brasilia (2015). Currently, she is a PhD student in Health Science (Oral Health) from University of Brasilia.

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