

Master's Thesis Proposal  
by  
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Feasibility and benefits of laboratory diagnostics in the management of periodontal disease – a literature review

Abstract

This literature review assesses the feasibility and benefits of laboratory diagnostics in the management of periodontal disease.

There are different kinds of commercial test systems available to the clinician with the aim of predetermining the patient susceptibility and to basically help generating an optimal treatment plan on an individual basis.

It is well acknowledged that periodontitis is a disease being modulated by various factors on different levels. While bacteria are the primary etiological cause for developing periodontitis environmental but also host features determine the grade of susceptibility and course of disease.

For this literature review three different kinds of markers – each examining the disease on a different level – were selected and analysed for their usefulness in routine application in the dental practice: interleukin-1, matrix metalloproteinase 8 and microbiological profile tests.

To obtain evidence-based results the platform Pubmed of the U.S. National Library of Medicine was searched for publications.

In conclusion, based on the current available and searched publications there is no significant advantage in the routine use for any of the analysed markers to be seen.

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