



DIAGNOSTIC TESTS IN PERIODONTICS: CONCEPTS AND APPLICATIONS

DR. ERALDO E. BATISTA

Over the years, knowledge on periodontal microbiology and immunology enabled the identification of bacteria/molecules that could serve as markers of risk of disease activity and periodontal breakdown. These advances, coupled with the constant progress of biotechnology tools now enable clinicians to monitor some of these markers to promote a chairside surveillance of periodontal health and anticipate periodontal breakdown in treated patients.

This course aims at presenting a review of periodontal disease progression concepts and the rationale behind some of the markers and biological fluids used in periodontal diagnostic tests. Additionally, basic principles of the biotechnological tools used to detect and quantify these markers are to be presented, along with their relative advantages, limitations, and potential pitfalls.

EDUCATIONAL OBJECTIVES

- Describe basic mechanisms of destruction of the periodontium.
- Understand the peculiarities of periodontal disease progression and candidate markers of this process.
- Understand the biotechnological approaches used to detect markers of disease and bacteria.
- Recognize the limitations and advantages of the diagnostic tests presently used in periodontics.

CLINICIAN



ERALDO L. BATISTA JR. DDS, MSC (PERIO), DSC (ORAL BIOLOGY), FRCD (C), received his D.D.S. from the Pontifical Catholic University of Rio Grande do Sul, Brazil (PUCRS) in 1988 followed by a master's degree in Periodontology at the Federal University of Rio de Janeiro (UFRJ). Soon after he started teaching Periodontics at the Pontifical Catholic University of Rio Grande do Sul (PUCRS), also working with Periodontics and Implantology in private practice. In 2000 enrolled in the DSc. Program in Oral Biology at Boston University, graduating in 2005. Back in Brazil, he taught at the Dental School also collaborating with the Medical School and the Graduate Program in Cellular & Molecular Biology at PUCRS. Moved to Canada in 2013, assuming the position of Associate Professor at the University of Manitoba, becoming a Fellow of the Royal College of Dentists

of Canada in 2018. Joined the Department of Clinical Dental Sciences-Division of Periodontics at Dalhousie University as Associate Professor in 2020, focusing on teaching and research. Fellow and Speaker of the International Team for Implantology (ITI), Section Canada.

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