

## Clinical Significance of Salivary Distinctiveness for Dental Professionals: A Review

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### **Abstract**

Saliva is a biofluid potentially serves as reliable and a non invasive diagnostic medium. The saliva-based microbial, immunologic, and molecular biomarkers aid in evaluating the condition of both healthy and diseased individuals. The objective of this review was to discuss the significance of saliva-based biomarkers profiles in detecting the oral and systemic health conditions and to highlight the decision-making process of managing salivary dysfunctions for Dental Professionals in their clinical practice. According to the reviewed articles, saliva was used as a potential diagnostic medium for Type I and II diabetes mellitus in well-controlled diabetic patients and Behcet disease. High levels of salivary enzymes might be attributed to the autoimmune damage associated with the pathomechanism of Diabetes Mellitus.

Clinical studies also reveal an association with oral pathologies for some of the established salivary markers of oxidative stress. However, these salivary markers are not for routine clinical use yet. A recent study proposed the measurement of salivary enzyme Lacto dehydrogenase (LD) level may be a useful tool to screen for gingivitis in young adults.

On the other hand, there are several significant contributing factors that may result in salivary secretory disorders. Their prevalence and possible side effects may cause a negative impact on the Patient's quality of life. Therefore, to treat such salivary secretory disorders is often challenging for physicians in their clinical practice. Several diagnostic tools are used for detecting these lesions in the early stage. Nevertheless, further prospective researches are required to improve the quality of evidence.

**Keywords—** *Salivary Biomarkers, saliva, salivary diseases, salivary makers*

### **Professional Biography of Presenting Author (Dr. Asra Sabir Hussain)**

Dr. Asra Sabir Hussain has completed her Bachelors in Dental Surgery (BDS) from Batterjee Medical College, Jeddah Saudi Arabia in September 2015. She started her career in a Private Dental Practice setup. Besides her clinical skills, she has keen interest in writing research papers relevant to different specialties in Dentistry. Her field of research interests are General Dentistry, Aesthetic Dentistry and Orthodontics. She has Presented Posters in 10th and 11th Annual Saudi Orthodontic Society conferences as well as 4<sup>th</sup> International Saudi Society of Oral and Maxillofacial Conference held in

KSA. With the same enthusiastic approach, She earned the opportunity of Digital Poster Presentation at 42nd Annual Meeting of American Academy of Esthetic Dentistry held on August 03- 05, 2017 in San Diego, California USA. Recently, She also presented her Abstract as E- Poster in 26th American Dental Congress held on September 18-20, 2017 Philadelphia, USA. Nevertheless, She Published as a Principal and Correspondence Author her paper entitled “Methodologies in Orthodontic Pain Management. A Review” in The Open Dentistry Journal and also Esthetic Restorative Treatment Planning for Dental Professionals. An Overview in the Ecronicon Dental Science Journal. She is now accepted in MSc Program (Primary Dental care OLDL) at The University of Edinburgh entry level February 2018.



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**Any Comments: E- Poster Opportunity for the Abstract submitted**