

## Saliva A Diagnostic Tool

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Lately use of saliva as a diagnostic tool is emerging as an indisputable part in clinical dentistry mainly due to the non-invasive nature and also because of the fact that it can be collected by...

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The advantages of saliva as a diagnostic tool are surveillance of disease, diagnosis of the disease, prognosis and research purposes. Like blood, saliva is a complex fluid containing a variety of hormones, antibodies, antimicrobial constituents and growth factors.

[Saliva as A Diagnostic Tool | Biomedical and Pharmacology ...](#)

Whole saliva contains serum components and therefore may be used for diagnosis, monitoring, and prognostic determination of cancers outside the mouth and throat, as recently reviewed by Malathi et al. 1 In their review, they found that cerbB-2 and CA15-3 were differentially expressed in the saliva of women with breast cancer compared to healthy controls. Long noncoding RNA (lncRNA) are associated with lung, breast, and prostate carcinomas.

[Saliva as a diagnostic tool | Medical Laboratory Observer](#)

Saliva as a Diagnostic Fluid. Daniel Malamud, PhD<sup>a,b</sup> and Isaac R. Rodriguez-Chavez, PhD<sup>c</sup> • IOSR Journal of Dental and Medical Sciences (IOSR-JDMS) e-ISSN: 2279-0853, p-ISSN: 2279-0861. Volume 11, Issue 6 (Nov.- Dec. 2013), PP 96-99 [www.iosrjournals.org](#) [Saliva- A Diagnostic Tool](#).

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Saliva as a diagnostic fluid offers distinctive advantages over serum because it can be collected non-invasively by individuals with modest training. Furthermore, saliva may provide a...

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Saliva diagnostics is a proposed method of using saliva to analyse health and wellness and has become a highly desirable non-invasive method of detecting and monitoring disease within an individual. The method is currently under investigation and uses extracellular RNA as potential biomarkers.

[Saliva diagnostics: Will saliva translate into a real ...](#)

Instructions for Collecting Saliva: 1.Remove cap from cryovial 2.Remove Saliva Collection Aid from packaging and place securely into cryovial. 3.Instruct participants to allow saliva to pool in the mouth. 4.With head tilted forward, participants should drool through the SCA to collect saliva in the cryovial. 5.Repeat until sufficient sample is collected.

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The diagnostic potential of saliva was established by studies that revealed that, like serum, saliva contains hormones, antibodies, growth factors, enzymes, microbes and their products that can enter saliva through blood via passive diffusion, active transport or extracellular ultra filtration.

[COVID-19 salivary signature: diagnostic and research ...](#)

Therefore, it serves as a diagnostic and monitoring tool in many fields of science such as medicine, dentistry, and

pharmacotherapy. Introduced in 2008, the term "Salivaomics" aimed to highlight the rapid development of knowledge about various "omics" constituents of saliva, including: proteome, transcriptome, micro-RNA, metabolome, and microbiome.

### ~~Saliva diagnostics—Current views and directions~~

Despite its heterogeneous origins, this mixed fluid is widely used as a diagnostic tool to identify various oral and systemic conditions ((Dawes & Wong, 2019; Keremi, Beck, Fabian, Fabian, Szabo, Nagy, & Varga, 2017).

### ~~Saliva as a Candidate for COVID-19 Diagnostic Testing: A ...~~

One of the most important reasons for developing saliva-based diagnostic tests is a matter of simple economics. In situations where saliva and blood can both serve, it might make sense, from the patient's perspective, to use blood—after all, the quantities of most biomarkers are higher in blood than in saliva.

### ~~Salivary Diagnostics | American Scientist~~

Saliva diagnostic utility 1. Dr.SATHEESH KUMAR.K Post Graduate Student 2. Salivary glands 3. INTRODUCTION: The salivary glands in mammals are exocrine glands, glands with ducts, that produce Saliva In general, healthy adults produce 500–1500 mL of saliva per day, at a rate of approximately 0.5 mL/min There are 3 major salivary glands (namely parotid gland, submandibular and sublingual) and ...

### ~~Saliva diagnostic utility—SlideShare~~

This review examines the diagnostic application of saliva for systemic diseases. As a diagnostic fluid, saliva offers distinctive advantages over serum because it can be collected non-invasively by individuals with modest training. Furthermore, saliva may provide a cost-effective approach for the screening of large populations.

### ~~The Diagnostic Applications of Saliva—A Review—Eliaz ...~~

Saliva as a diagnostic tool for oral and systemic diseases has multiple advantages over other body fluids and based on specific biomarkers can provide an accurate diagnosis. However, until saliva becomes a certified diagnostic test that can replace the conventional ones, all the research values must be compared with the existing accepted methods.

### ~~A New Approach for the Diagnosis of Systemic and Oral ...~~

The use of saliva as a diagnostic tool for various systemic conditions is nothing new. Considerable research effort has been made in the past to seek biomarkers in saliva, since its collection is non-invasive and easy.

### ~~Frontiers | Saliva as a Candidate for COVID-19 Diagnostic ...~~

Saliva is one of the most ideal diagnostic tools. It is inexpensive, noninvasive, and easy to use. Other advantages like ease of collection and minimal patient discomfort make it more acceptable to the patient as well as the clinician. The most challenging aspect in salivary diagnostics is to identify the biomarker that is linked to a disease.

### ~~Salivary Diagnostics | IntechOpen~~

Saliva has great potential as a diagnostic fluid and offers advantage over serum and other biological fluids by an economic and noninvasive collection method for monitoring of systemic health and disease progression. The plethora of components in this fluid can act as biomarkers for diagnosis of various systemic and local diseases.

Salivary Diagnostics surveys one of the most exciting areas of research in oral biology. Regarded as the mirror of the body, saliva has immense potential to yield real clinical improvements in our ability to diagnose, and hence treat, oral and systemic conditions. The composition of saliva and other oral fluids reflects the tissue fluid levels of therapeutic, hormonal, and immunological molecules, as well as the presence of markers for systemic and oral disease.

Reports on recent advances in detecting drugs, hormones, antibodies, and other molecules of diagnostic importance; research has been going on in such fields as dentistry, clinical chemistry, and steroid hormones, but the researchers have not been talking to each other across the disciplinary back fence. A

Is saliva important? Secretion is a reflex response controlled by both parasympathetic and sympathetic secretomotor nerves. It is "specimen of choice" & offers a cost-effective approach for the screening of large populations. Barriers to salivary diagnostics includes 1) Associated with research, 2) With product development, 3) With third party acceptance and associated legal issues. Whole saliva can be collected in a non-invasive manner by individuals with modest training, including patients. It is useful in the monitoring of therapeutic drug levels and the detection of illicit drug use. Salivary diagnosis provides an attractive alternative to more invasive, time-consuming, complicated and expensive diagnostic approaches. With the continued advancement in technology and biomedical science, the day is not far when saliva would become the "mirror" and monitor of body's health.

Emerging Trends in Oral Health Sciences and Dentistry is the second book on Oral Health Science. The first book is Oral Health Care-Pediatric, Research, Epidemiology and clinical Practices and Oral Health Care-Prosthodontics, Periodontology, Biology, Research and systemic Conditions published in February 2012. The present book is a reflection of the progress in Oral Health Sciences, practices and dentistry indicating the direction in which this stream of knowledge and education is likely to head forward. The book covers areas of General Dentistry, Paediatric and Preventive Dentistry, Geriatric and Prosthodontics, Orthodontics, Periodontology, Conservative Dentistry and Radiology and Oral Medicine.

This book represents a guide to the academic, scientific and clinical applications of saliva as a diagnostic fluid. This volume is written by leaders in multiple fields and fulfills a demand for a broad understanding of saliva across a range of disciplines.

This book reviews the progress made in salivary diagnostics during the past two decades and identifies the likely direction of future endeavors. After an introductory section describing the histological and anatomical features of the salivary glands and salivary function, salivary collection devices and diagnostic platforms are reviewed. The field of “salivaomics” is then considered in detail, covering, for example, proteomics, the peptidome, DNA and RNA analysis, biomarkers, and methods for biomarker discovery. Salivary diagnostics for oral and systemic diseases are thoroughly discussed, and the role of salivary gland tissue engineering for future diagnostics is explored. The book closes by considering legal issues and barriers to salivary diagnostic development. *Advances in Salivary Diagnostics* will be an informative and stimulating reference for both practitioners and students.

Saliva offers an alternative to serum as a biologic fluid that can be analyzed for diagnostic purposes. Whole saliva contains locally produced as well as serum-derived markers that have been found to be useful in the diagnosis of a variety of systemic disorders. Whole saliva can be collected in a non-invasive manner by individuals with modest training, including patients. This facilitates the development and introduction of screening tests that can be performed by patients at home. Analysis of saliva can offer a cost-effective approach for the screening of large populations, and may represent an alternative for patients in whom blood drawing is difficult, or when compliance is a problem. This review suggests that certain diagnostic uses of saliva hold considerable promise. Monitoring of the immune responses to viral infections, including hepatitis and HIV, may prove valuable in the identification of infected individuals, non-symptomatic carriers, and immune individuals. Saliva can also be useful in the monitoring of therapeutic drug levels and the detection of illicit drug use. Further, analysis of saliva may provide valuable information regarding certain endocrine disorders.

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