

SCIENTIFIC ARCHIVES OF DENTAL SCIENCES (ISSN: 2642-1623)

Volume 5 Issue 6 June 2022

Opinion

Saliva: Measuring Tools and Methods

Sowmya Muduganti, Rama Nalini Munduri, Naga Bhamidipati*, Bindu Sravani Nayak and Divya Uppala

Department of Oral Pathology and Microbiology, Gitam Dental College and Hospital, India

*Corresponding Author: Naga Bhamidipati, Department of Oral Pathology and Microbiology, Gitam Dental College and Hospital, India.

Received: April 19, 2022; Published: May 31, 2022

Advantages: Non-invasive, drug monitoring, biological markers, early disease detection.

Disadvantages: Inconvenient to the subject, circadian variability of sample collection.

Limitations: Bacterial degradation over time.

Types:

- Whole saliva: Salivary Glands Secretions + Gingival Crevicular Fluid+ Microorganisms + Desquamated Epithelial Cells + Leucocytes.
 - **a. Unstimulated saliva**: When resting no exogenous or pharmacological stimulation is present.
 - Stimulated saliva: When secretion is promoted by mechanical, gustatory, or by pharmacological agents.
- **2. Glandular saliva**: Saliva collected from specific site of oral cavity: parotid, submandibular, sublingual.
- 3. Minor salivary glands: Palatine, buccal and labial saliva.

Normal values:

• Daily secretion: 500 - 700 ml

- Submandibular and sublingual glands: 0.25 -0.35 ml/min.
- Parotid gland: Stimulated secretions only 1 1.5
 ml/10 15 min using citric acid 2 4% w/v.
- Unstimulated: 0.25 0.35 ml/min.
- Stimulated: 0.2 7 ml/min.

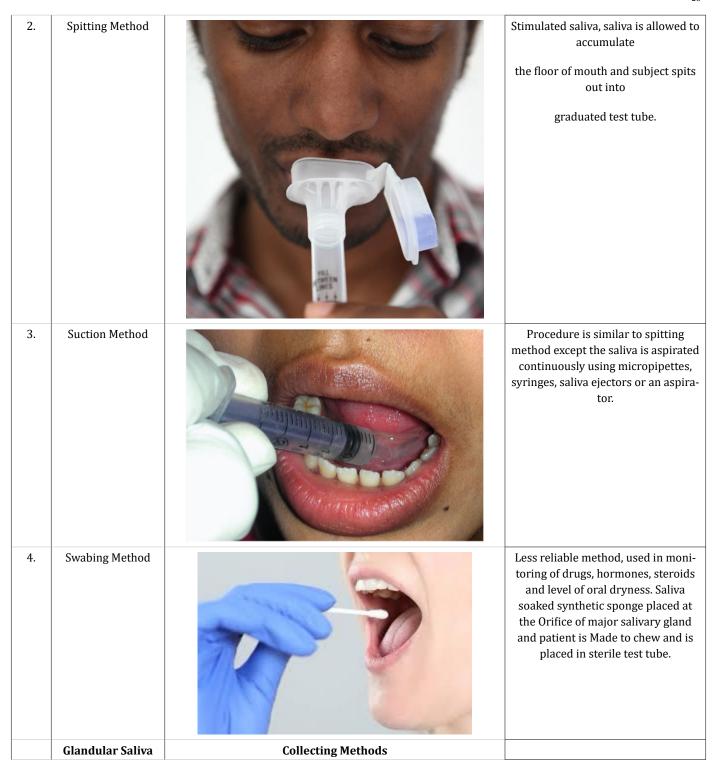
Requisites for collecting saliva

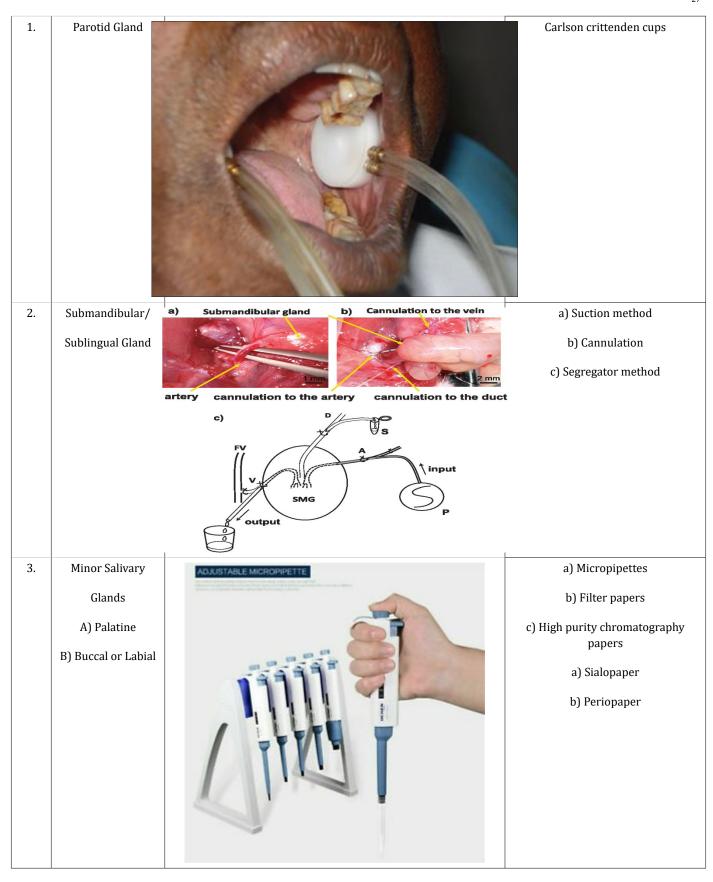
- 1. Preferably between 8 11 AM.
- 2. Subject should preferably in fasting stage or 2Hrs after breakfast.
- 3. Subject should not brush their teeth 45min prior to sample collection.
- 4. Oral examination should not be performed with in 24hrs prior to sample collection
- 5. Subject should avoid smoking at least 2hrs prior to saliva collection.

Methods of collecting saliva

Citied by: *Ann N Y Acadsci*. 1993 Sep 20; 694: 72-7. Methods of collecting saliva Mahvash Navazesh 1993.

S. no	Methods		Procedure
	Whole Saliva	Collecting Methods	
1.	Draining Method		Unstimulated saliva, most reliable method. Subject is made to sit in head bent down position and allow the saliva to drip passively from lower lip.





Volume 5 Issue 6 June 2022 ©All rights reserved by Naga Bhamidipati., *et al.*