Oral Digestion Overview & Saliva Basics – Video Note Templates

Oral Digestion: Definitions

Oral digestion: ____________________________________________________________

Mouth: _________________________________________________________________

* Also known as

Oral cavity: ______________________________________________________________

* Also known as

Mastication: _____________________________________________________________

* Also known as

Oral processing: __________________________________________________________

* Also known as

Bolus: _________________________________________________________________

Deglutition: _____________________________________________________________

* Also known as

Expectorate: _____________________________________________________________

Xerostomia: _____________________________________________________________

Enamel: _________________________________________________________________
Dental caries:_______________________________________________________________________

* Also known as Cavity:_______________________________________________________________________

* Also known as

**Oral Anatomy**

Lateral view of the oral cavity

Anterior view of the oral cavity
**Saliva Secretion**

Daily saliva secretion: _____________

Most of saliva secretion is from three key glands:

<table>
<thead>
<tr>
<th>Gland</th>
<th>Type of Secretions</th>
<th>Percent of total saliva volume secreted (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Unstimulated</strong></td>
</tr>
<tr>
<td>Parotid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Submandibular</td>
<td></td>
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</tr>
<tr>
<td>Sublingual*</td>
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</tbody>
</table>

* The contribution of other minor salivary glands such as the labial, palatine, lingual, and buccal are included with the sublingual gland.*
Saliva Secretion – Microscale

Overview of cellular events that occur to produce products of saliva secretion:

*Note that the specific secretions vary based on the type of cell*

Example structure of a mixed salivary gland with serous and mucous acini:

*Saliva composition _______________________________________________________________
Saliva Function

Saliva is secreted in the oral cavity and serves several functions:

- Act as an ________________________________
- Facilitation of ______________________________
- Prevents _________________________________
- Aid in ________________________________
- Facilitation of ______________________________
- Begin _________________________________
- Buffers ________________________________

*These properties are due to the unique components of saliva*

<table>
<thead>
<tr>
<th>Saliva Component</th>
<th>Function</th>
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<tbody>
<tr>
<td>Water</td>
<td></td>
</tr>
<tr>
<td>Bicarbonate</td>
<td></td>
</tr>
<tr>
<td>Mucin</td>
<td></td>
</tr>
<tr>
<td>Amylase</td>
<td></td>
</tr>
<tr>
<td>Lysozyme, Lactoferrin</td>
<td></td>
</tr>
<tr>
<td>Salts (NaCl, KCl)</td>
<td></td>
</tr>
<tr>
<td>Calcium, Phosphate</td>
<td></td>
</tr>
</tbody>
</table>

Of these components, saliva is _____ water and only ______ salts and other components

Salts (NaCl, KCl) are generally present in low concentrations, ~ _______mM

Protein concentration of saliva is ~ _____________ mg/dL (or ~ _____ g/L)

Saliva Properties

Saliva has a ________________________________

The viscosity of saliva is ________________________________

Saliva surface tension is ________________________________