Oral mucosa
Definition
ORGANIZATION OF ORAL MUCOSA
Masticatory mucosa
Lining mucosa

Loosely attached
Firmly attached
Specialized mucosa
Specialized Mucosa
Ridges (pegs) and papillae
Types of Oral Epithelium

Orthokeratinized stratified squamous epithelium

Parakeratinized stratified squamous epithelium

Nonkeratinized stratified squamous epithelium

A
B
C
JUNCTION OF EPITHELIELUM AND LAMINA PROPRIA
Basal lamina and basement membrane
LAMINA PROPRIA
CELLS

- FIBROBLASTS
- MACROPHAGES
- MAST CELLS
- INFLAMMATORY CELLS
FIBERS AND GROUND SUBSTANCE

- COLLAGEN
- ELASTIC FIBERS
- OXYTALAN FIBERS
- GROUND SUBSTANCE
NERVE SUPPLY
Oral mucoperiosteum and submucosa
ORAL EPITHELIUM
Progenitor and maturing populations
Desmosomes and hemidesmosomes
KERATINIZED EPITHELIUM
NON KERATINIZED EPITHELIUM
NON KERATINOCYTES
MELANOCYTES
LANGERHAN’S CELL
MERKEL’S CELL
This schematic shows the location of Merkel cells within the epidermis and the association with cutaneous nerves. Cancer develops when these cells undergo uncontrolled growth and usually appears on sun-exposed skin.
INFLAMMATORY CELLS
I-MASTICATORY MUCOSA
1-GINGVA
TOPOGRAPHY AND MACROANATOMY
MUCOGINGIVAL JUNCTION
Gingival Tissues

- Free gingiva
- Interdental papilla
- Muco-gingival junction
- Attached gingiva
- Free gingival groove
- Alveolar mucosa
FREE GINGIVA
FREE GINGIVAL GROOVE
GINGIVAL SULCUS
ATTACHED GINGIVA
THE INTERDENTAL PAPILLA
HISTOLOGY OF GINGIVA
THE LAMINA PROPRIA
GINGIVAL FIBERS
- ALVEOLGINGIVAL GROUP
- DENTOGINGIVAL GROUP
- CIRCULAR GROUP
- DENTOPERIOSTEAL FIBERS
BLOOD AND NERVE SUPPLY
2-HARD PALATE
Masticatory Mucosa
PALATINE GINGIVA
PALATINE RAPHE
THE ANTEROLATERAL AREA
THE POSTERPLATERAL AREA
A- LINING MUCOSA (LOOSELY ATTACHED)

Alveolar mucosa
Floor of the mouth
Vestibular fornix
1- THE ALVEOLAR MUCOSA
2- MUCOUS MEMBRANE OF THE FLOOR OF THE MOUTH
3. VESTIBULAR FORNIX
B- LINING MUCOSA (FIRMLY ATTACHED)
1- The inner sides of the lips and cheeks
Fordyce’s Spots
THE EPIDERMIS
THE DERMIS (CORIUM)
Hair follicle:
The living part of the hair:

Hair bulb
Dermal papilla

Hair matrix:
New cells are generated here.

Sebaceous gland
Hair follicle
Straight duct
Apocrine gland (secretory portion)
TRANSITION BETWEEN SKIN AND MUCOUS MEMBRANE (Vermilion border or mucocutaneous junction)
2- INFERIOR SURFACE OF THE TONGUE
3- SOFT PALATE
III- SPECIALIZED MUCOSA

Diagram showing anatomical features:
- Palatopharyngeal arch
- Epiglottis
- Median glossoepiglottic fold
- Lingual tonsil
- Foramen cecum
- Palatoglossal arch
- Root
- Lingual follicles
- Palatine tonsil
- Terminal sulcus
- Fungiform papillae
- Vallate papillae
- Median sulcus
- Apex
- Dorsal papillae
- Filiform papillae
- Muscle
- Mucosa
- Ventral
• THE FILIFORM PAPILLAE
• THE FUNGIFORM PAPILLAE
• THE CIRCUMVALLATE PAPILLAE
• THE FOLIATE PAPILLAE
Taste Buds - van Gieson

circumvallate papilla

connective tissue core

taste buds

stratified squamous epithelium

Taste buds
TASTE BUDS
LINGUAL TONSIL
DENTO-GINGIVAL JUNCTION
HISTOGENESIS
HISTOLOGICAL STRUCTURE
SHIFT OF THE DENTOGINGIVAL JUNCTION
Clinical and anatomical crown
FUNCTIONS OF ORAL MUCOSA

- PROTECTION
- SENSATION
- THERMAL REGULATION
- SECRETION