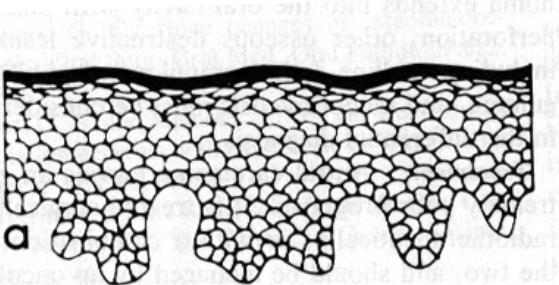


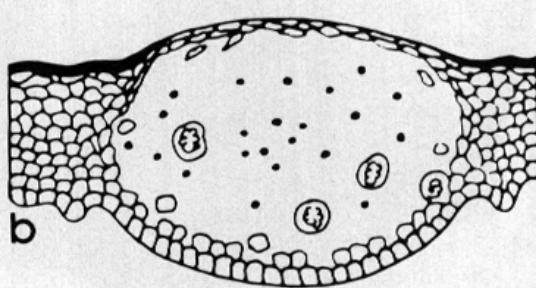
BULLOUS/EROSIVE & DESQUAMATIVE LESIONS OF ORAL MUCOSA

Basic Mechanisms, Adhesion
Molecules

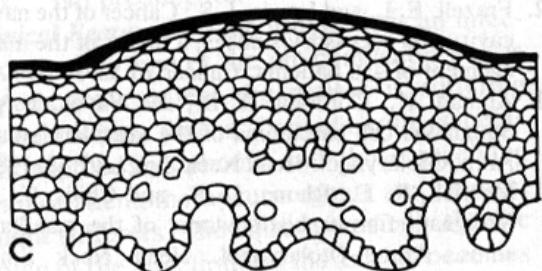




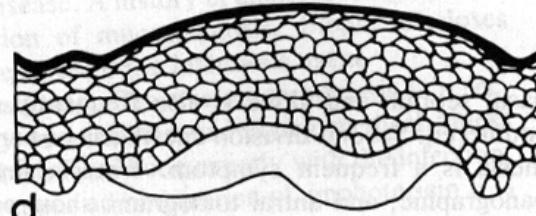
Normal mucosa



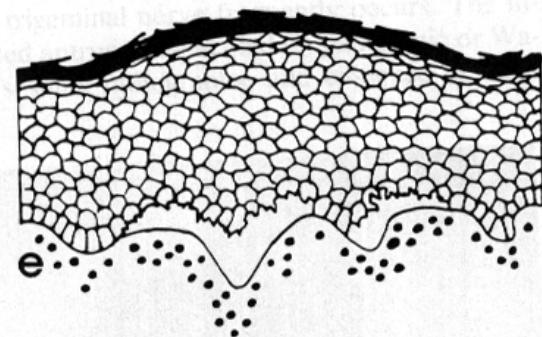
Intraepithelial viral vesicle



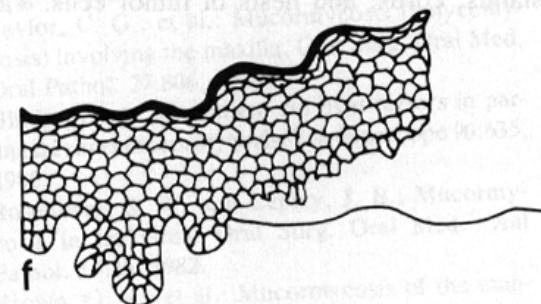
Suprabasilar bulla



Sub-basilar bulla



Intrabasilar bulla



Erosion desquamation

Oral Bullous Diseases

These diseases are immunopathologic, involving autoimmune mechanisms, immune complexes with complement or planted antigens. Most are immunoglobulin mediated, others are T cell mediated



Oral Bullous/Desquamative Diseases

- Erosive Lichen Planus
- Mucous Membrane Pemphigoid
- Pemphigus Vulgaris
- Erythema Multiforme



Rare Bullous Diseases

- Paraneoplastic Pemphigus
- Pyostomatitis Vegetans
- Epidermolysis Bullosa
 - Hereditary types
 - Acquisita
- Familial Benign Pemphigus
 - (Hailey-Hailey)



Mucous Membrane Autoantigens

- DESMOSOMAL PROTEINS
- HEMIDESMOSOMAL PROTEINS
- BASEMENT MEMBRANE
ADHESION COMPLEX (BMAC)
PROTEINS
- IMMUNE COMPLEXES

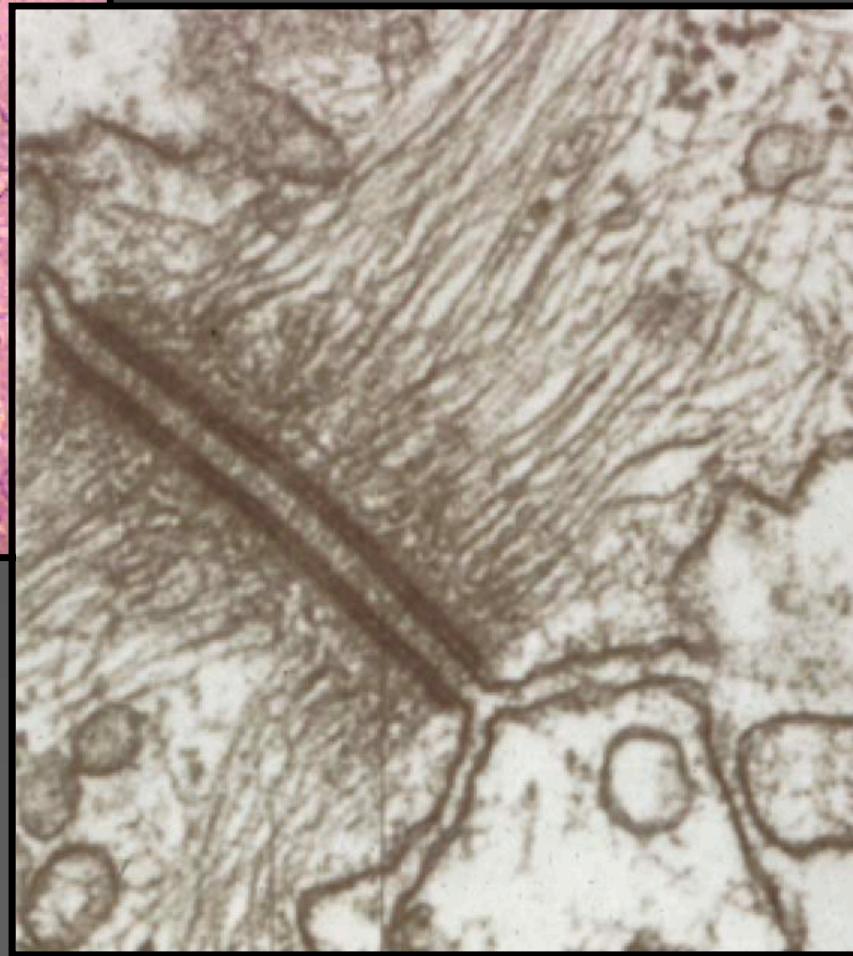
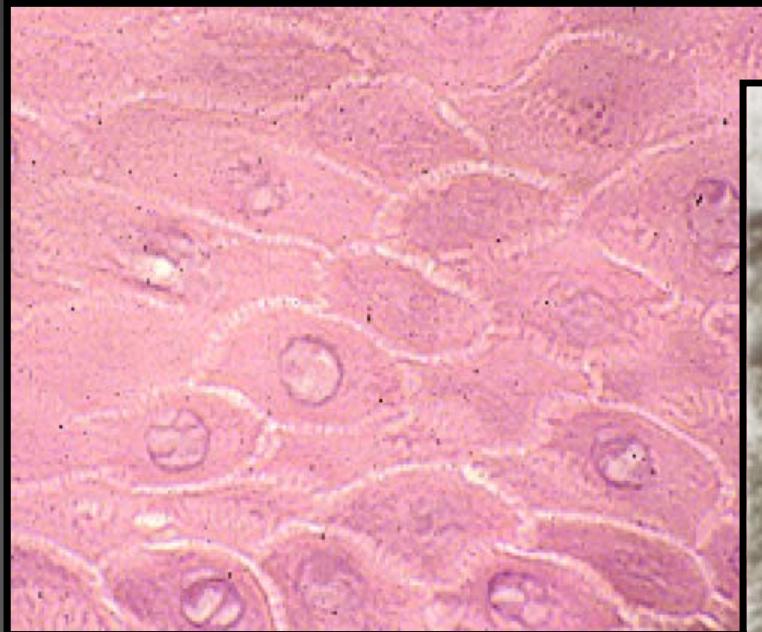


Target Antigens in Oral Bullous Diseases

- Pemphigus vulgaris (desmosome, IgG)
 - Desmoglein 3
- Bullous Pemphigoid (BMAC, IgG)
 - BP230, Collagen 17
- Mucous Membrane Pemphigoid (BMAC, IgG)
 - BP230, Collagen 17, Laminin 5
- Erythema Multiforme (immune complexes)
 - Sulpha drug haptens, herpes virus antigens
- Paraneoplastic Pemphigus (BMAC, desmosome, IgG)
 - Desmoplakins
- Lichen Planus
 - Keratinocyte Ags, Hg, Ni, Cinnamon (T cell mediated)



Desmosome



Desmoglein Ag

DESMOSOMAL ASSEMBLY

INTRACYTOPLASMIC INTERMEDIATE FILAMENTS

Actin
Cytokeratins

PLAQUE

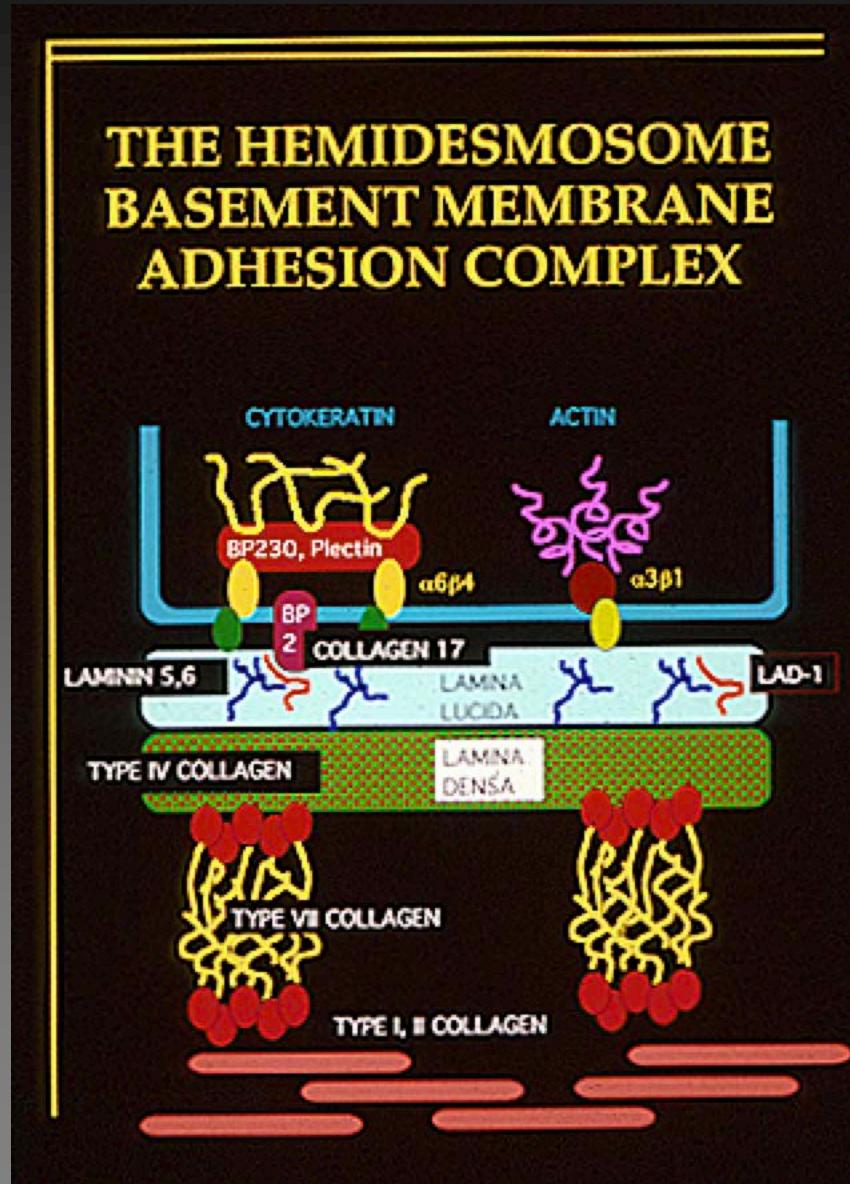
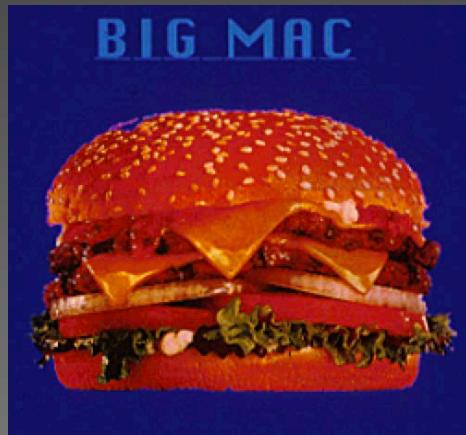
Plakoglobin
 β -Catenin

TRANSCELLULAR

Desmoglein 1 (PFAg)
Desmoglein 2a (Desmocollin 1)
Desmoglein 2b (Desmocollin 2)
Desmoglein 3 (PUAg)



Basement Membrane Adhesion Complex



BMAC Diseases

Autoimmune Targets
Immune Complexes
Heredity Defects

