

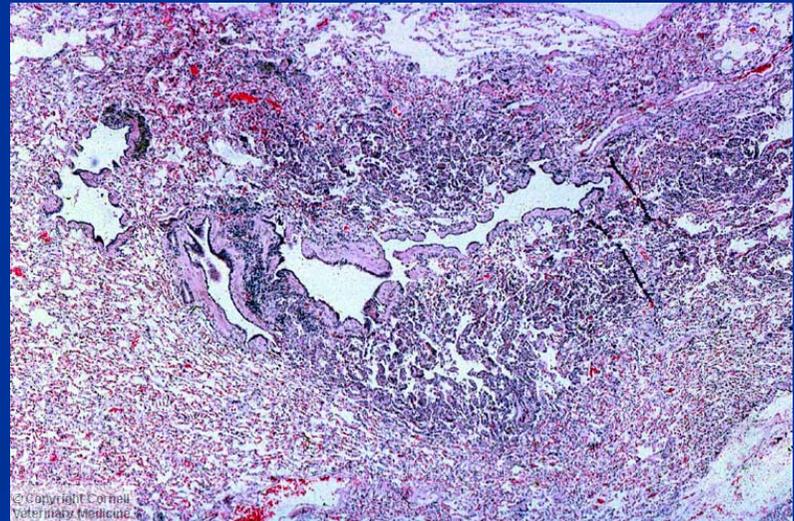
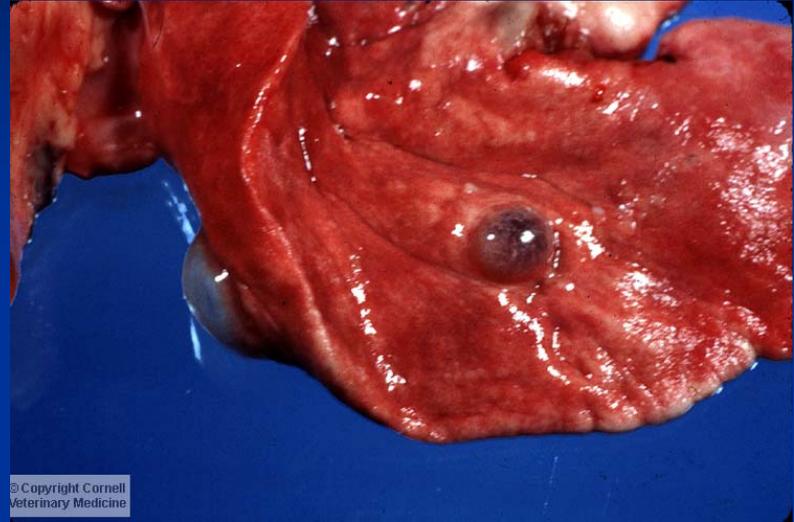
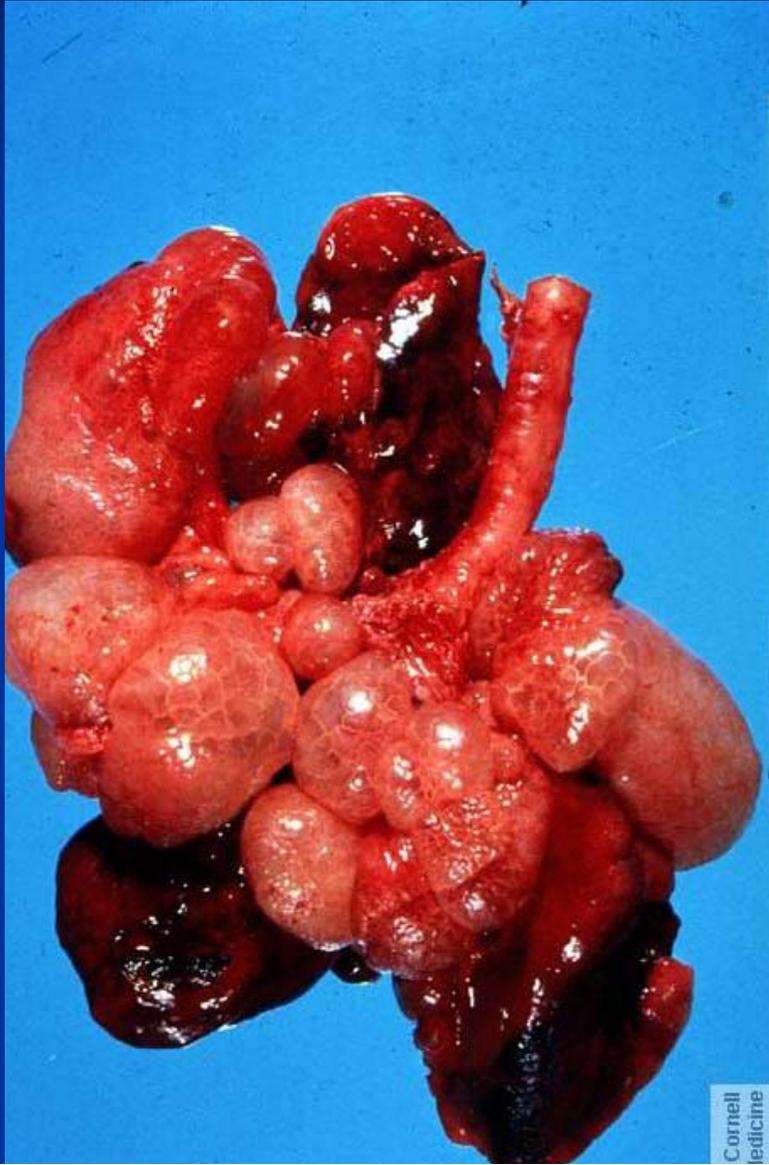
Tracheal Lesions in Dogs

- Tracheal hypoplasia – English bulldog and Boston terrier
- Tracheal/tracheobronchial collapse
 - Toy and miniature breeds
 - Dorsoventral flattening of the whole trachea with widening of dorsal tracheal membrane which can collapse
- Segmental tracheal collapse resulting in stenosis
 - Congenital or acquired

Tracheal Collapse - Dog



Bronchial Dysplasia – Afghan Hound



Primary Ciliary Dyskinesia in Dogs

- Immotile cilia syndrome
- Kartagener's syndrome has *situs inversus*
- Decreased mucociliary clearance leads to chronic infections – rhinitis, sinusitis, pneumonia - and bronchiectasis
- Also infertility due to sperm immotility
- Diagnosis by ultrastructural examination of ciliated epithelium (eg nasal biopsy)

Bronchiectasis Secondary to Primary Ciliary Dyskinesia

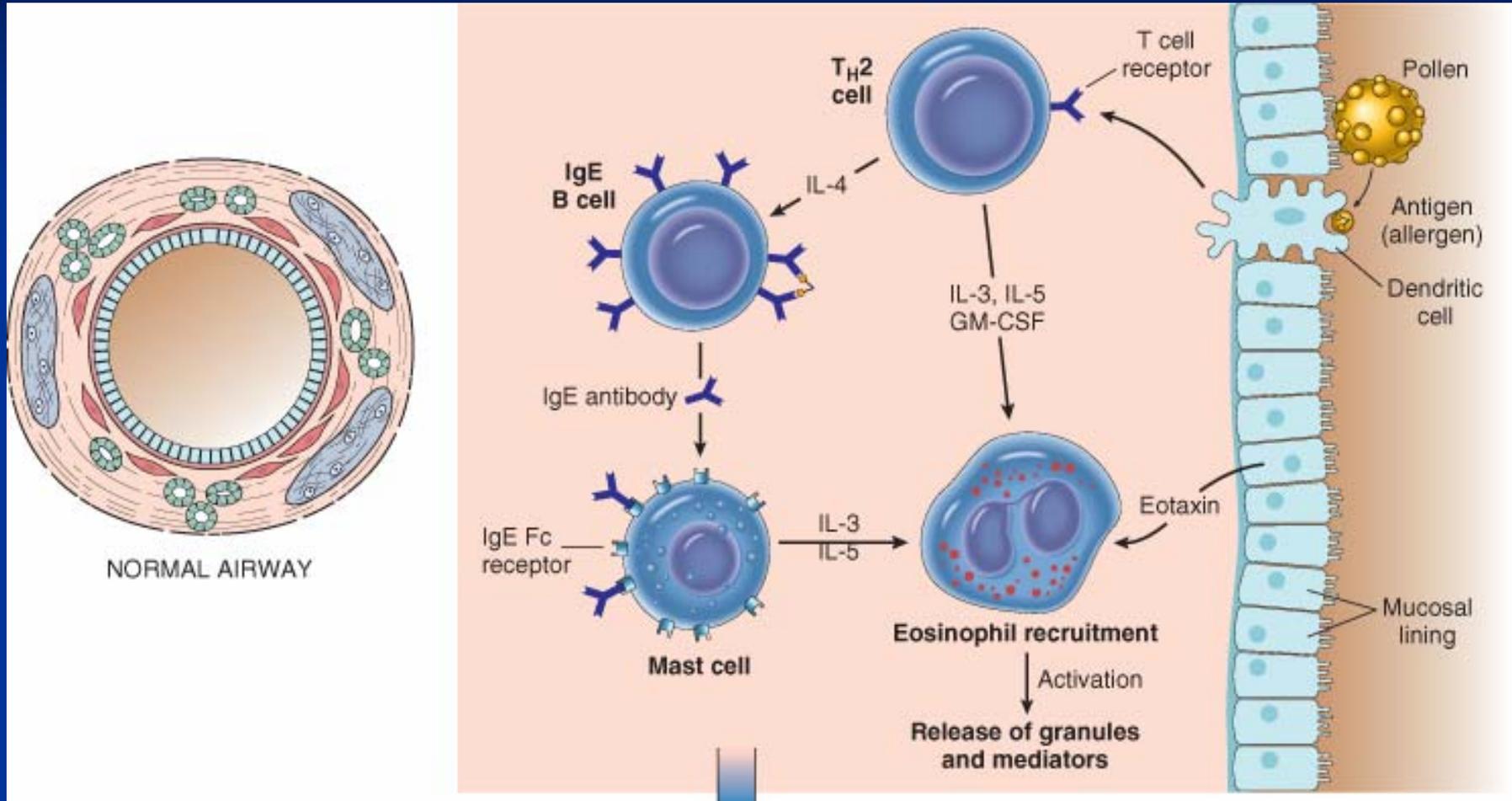


Feline Asthma

(Feline Allergic Bronchitis)

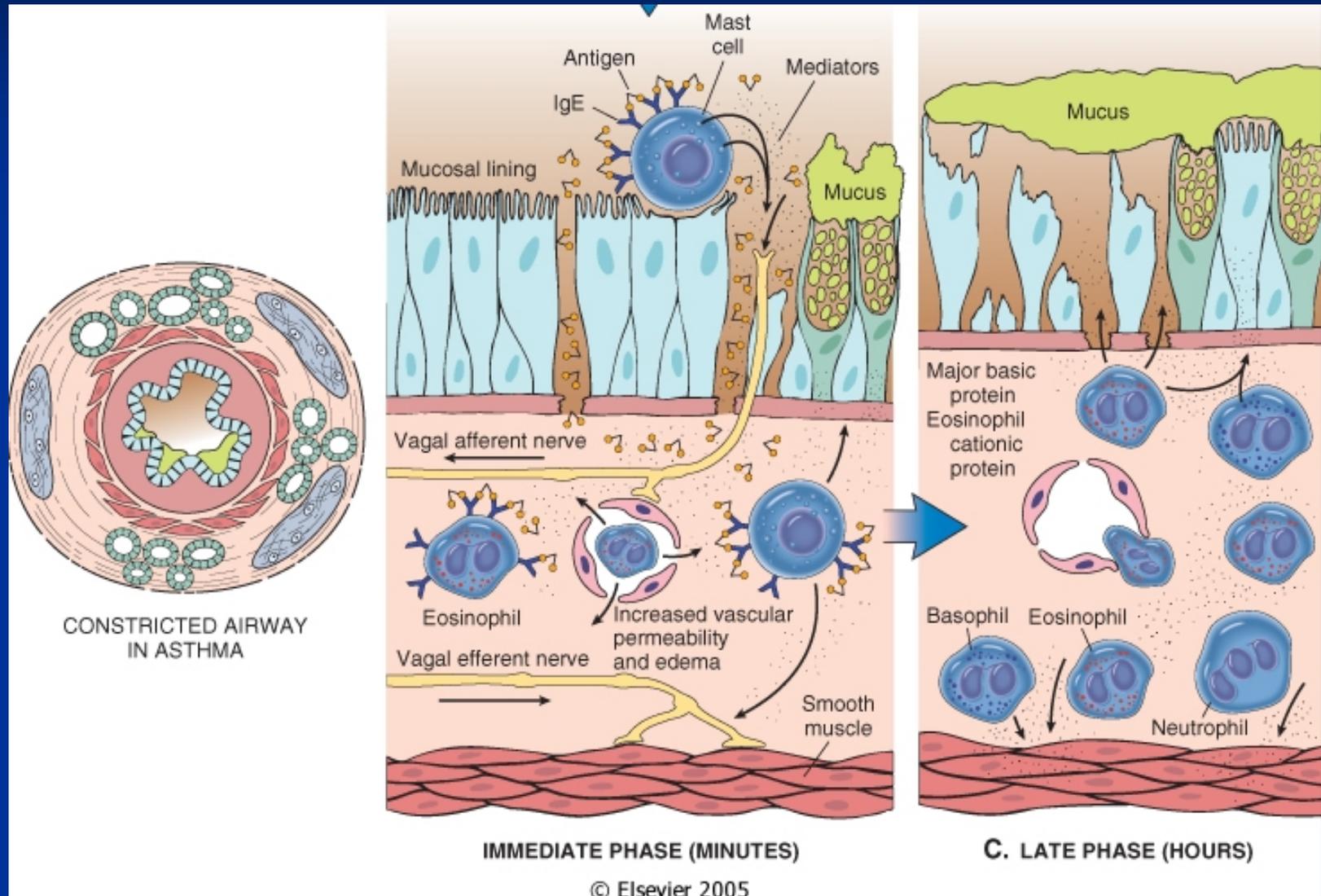
- Pathogenesis
 - Extrinsic -Type I hypersensitivity
 - ? Intrinsic
- Etiology: inhaled allergens, irritants, e.g. parasite proteins, cigarette smoke
- Leads to hyperreactivity
- Clinical signs
 - Recurrent cough and/or dyspnea
 - Wheezing due to reversible broncho-constriction
 - Generally well controlled with steroids, may need to remove from allergens

Sensitization to Allergen



From Kumar et al, 2005

Allergen-Triggered Asthma



Feline Asthma

- BAL cytology
 - Large number of eosinophils
 - Differentiate from parasitic migration (look for larvae at low magnification)
- Do dogs get this disease?

Feline Asthma

■ Pathology

■ Gross

- Lungs do not collapse due to air trapping
- Mottled appearance

■ Histopathology

- Tissue eosinophilia, sometimes also blood eosinophilia
- Smooth muscle hyperplasia
- Bronchitis with excess mucus
- Edema