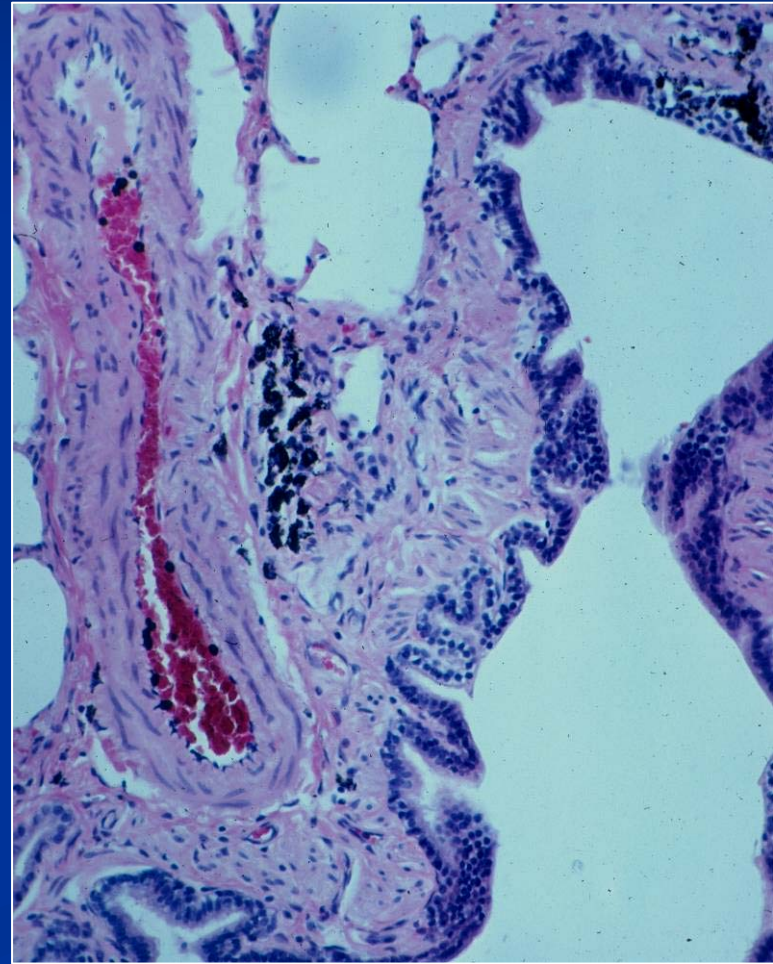


# Anthracosis - Dog



# Pleural Mineralization - Uremia in the Cat



# Pulmonary Fibrosis

## ■ Etiology

### ■ Genetic

- Interstitial lung disease in West Highland White Terriers (WHWT) – new disease

### ■ Toxic

- Paraquat toxicity

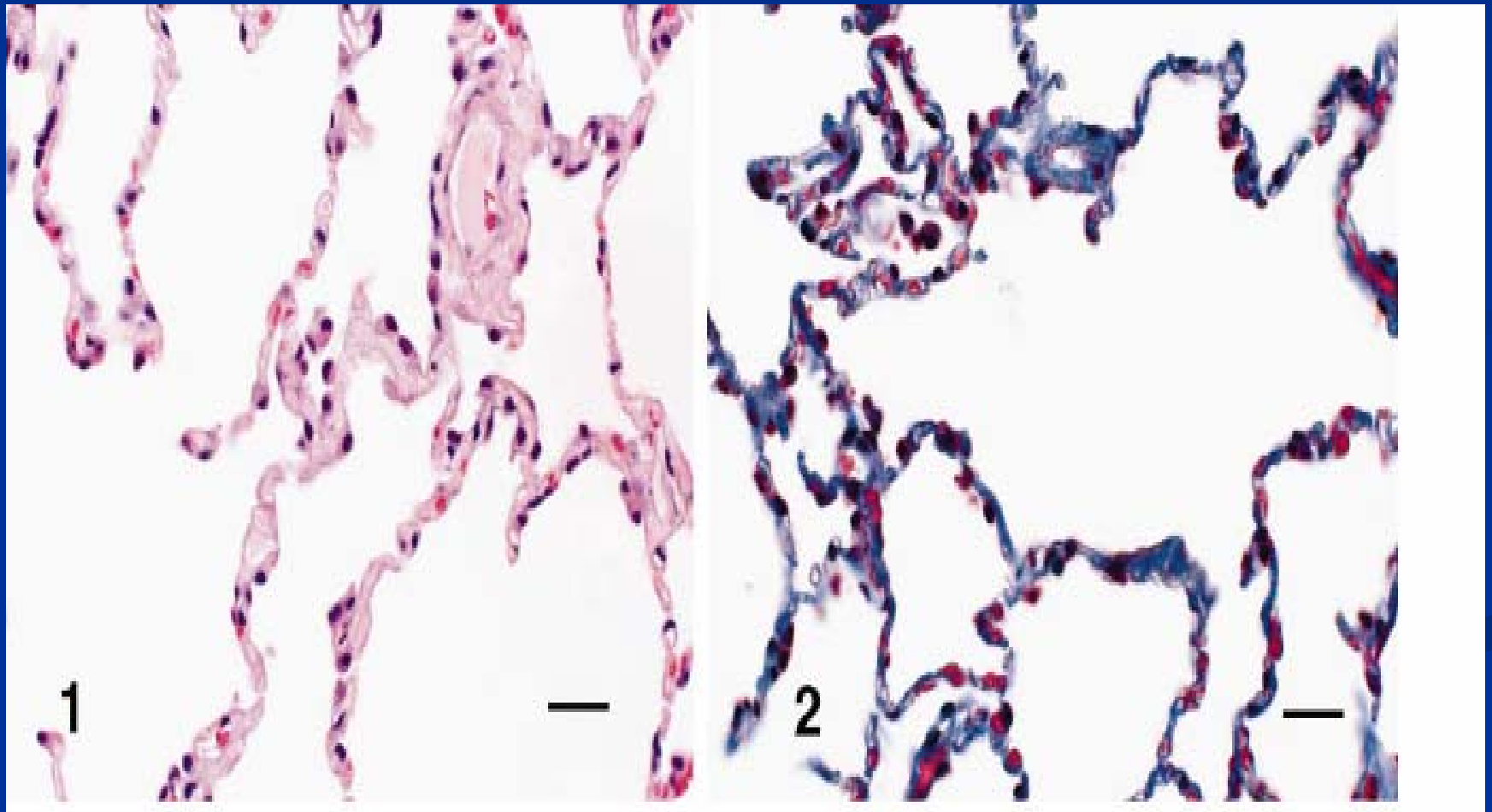
### ■ Idiopathic

- Spontaneous feline idiopathic pulmonary fibrosis – new disease

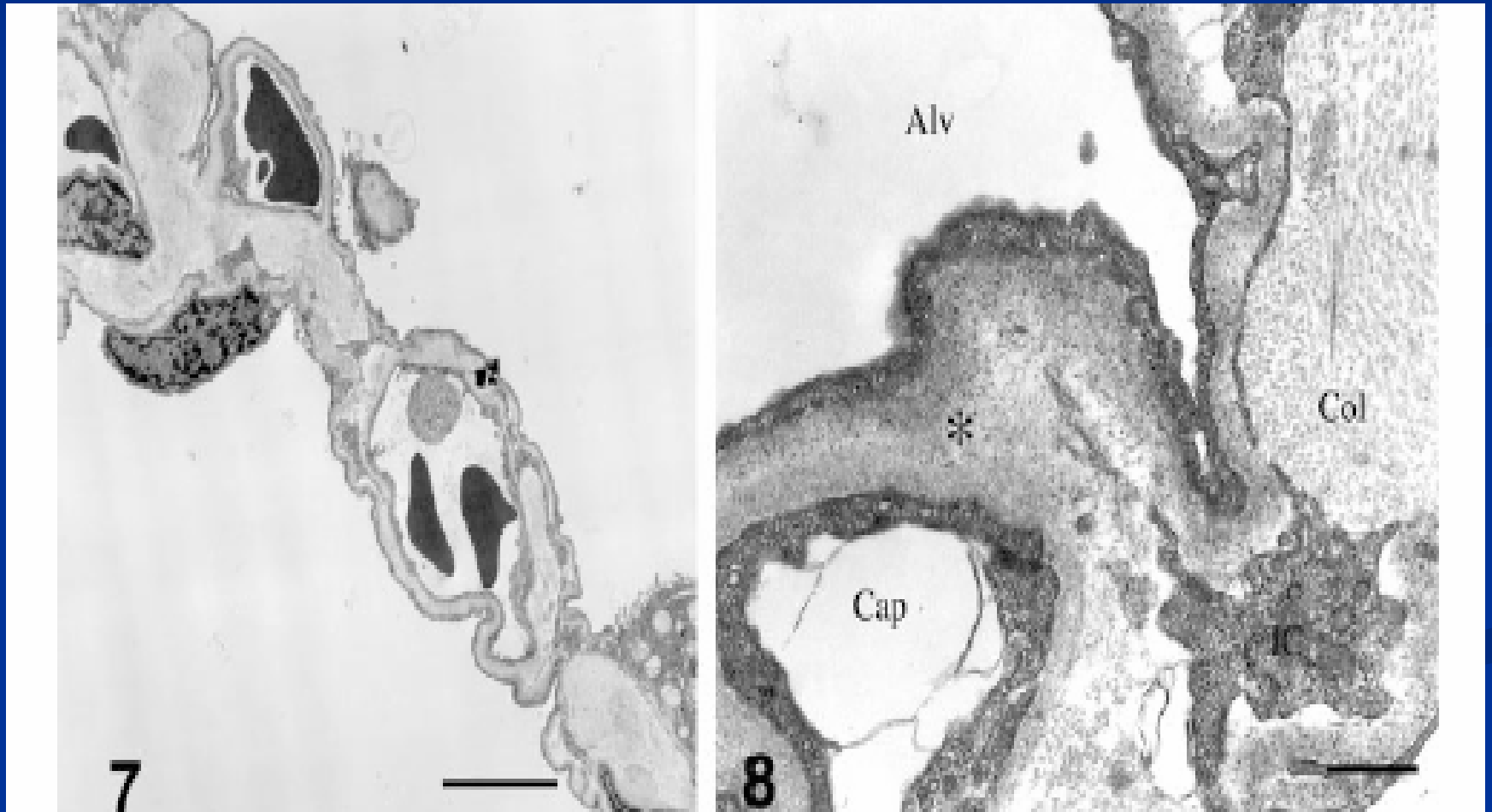
# Interstitial Lung Disease of West Highland White Terriers

- Reported in > 6 yr WHWTs
- Interstitial fibrosis and increased basement membrane in alveolar walls
- Increase in type III collagen
- Mild mononuclear cell infiltration
- Norris et al., 2005. Vet Pathol 42: 35-41
- Proposed genetic disease

# Interstitial Lung Disease of West Highland White Terriers (Norris et al, 2005)



# Interstitial Lung Disease of West Highland White Terriers (Norris et al, 2005)



# Spontaneous Feline Idiopathic Pulmonary Fibrosis (Williams et al., 2006)

- Proposed animal model of human idiopathic pulmonary fibrosis (16 cases, 2-13 yr old)
- Similar pathology to humans
- Interstitial fibrosis with fibroblast/myofibroblast foci
- Honeycombing with type II cell proliferation
- Alveolar interstitial smooth muscle metaplasia
- Possible defect in type II pneumocyte biology based on ultrastructure of lamellar bodies

# Noninfectious Pneumonias of Cats

- Aspiration, especially hand fed kittens
- Exogenous lipid pneumonia
  - Mineral oil administration
- Endogenous lipid (lipoid) pneumonia – foam cell foci



# Noninfectious Pneumonias of Cats (cont)

- Endogenous lipid (lipoid) pneumonia
  - Idiopathic
  - Gross: multiple firm white foci
  - Histo: accumulation of foamy lipid laden macrophages
  - Common in wild Felidae, Tasmanian devils

**Endogenous  
Lipid  
Pneumonia —  
Ferret**

