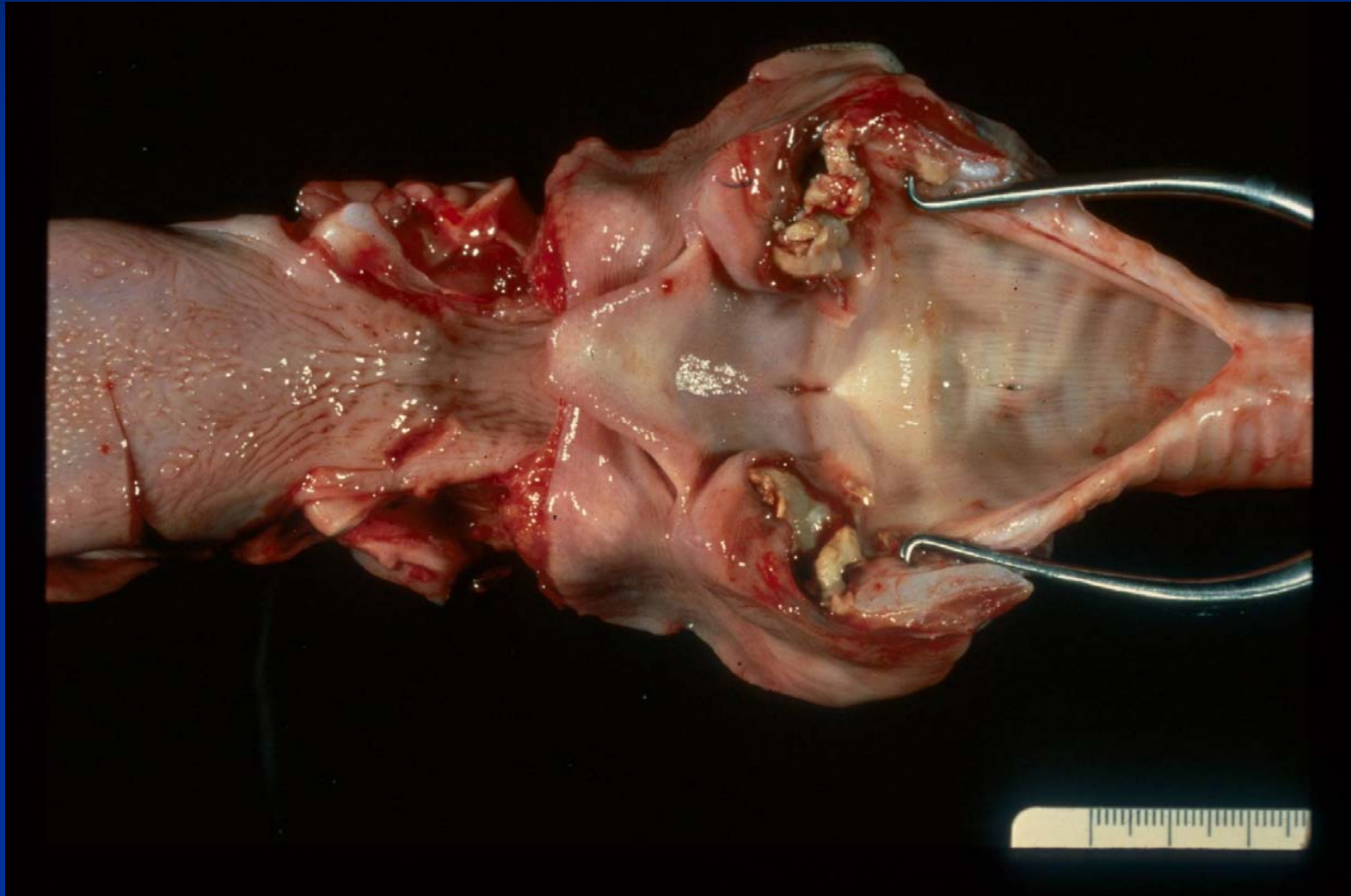


Calf Diphtheria (Necrobacillosis)



Calf Diphtheria (Necrobacillosis)

- Disease
 - Systemic disease
 - Respiratory – cough and inspiratory dyspnea
- Complications
 - Pneumonia secondary to aspiration
 - Toxemia or bacteremia
 - Asphyxiation

Bovine Respiratory Pathology

■ Lower Respiratory Tract Diseases

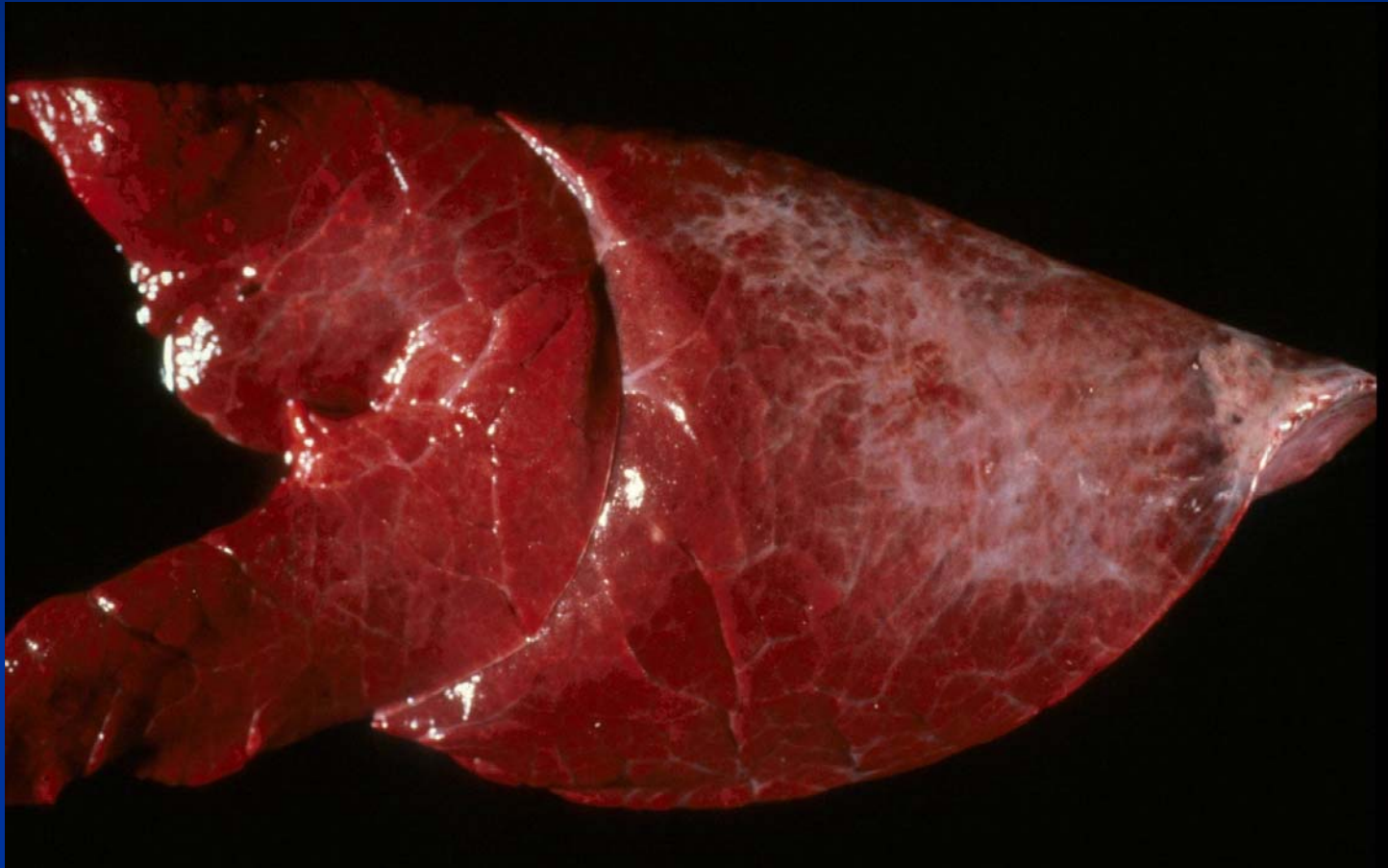
■ Noninfectious Disease

- Congenital
- Emphysema
- Immune Mediated Interstitial pneumonia
- Toxic interstitial pneumonia

■ Infectious Disease

- Viral Diseases
- Bacterial Diseases
- Parasitic Diseases

Normal Calf Lung (note fibrous pleura)



Congenital Disease

- Pulmonary hypoplasia
- Accessory lungs (dystocia possible)
- Congenital melanosis

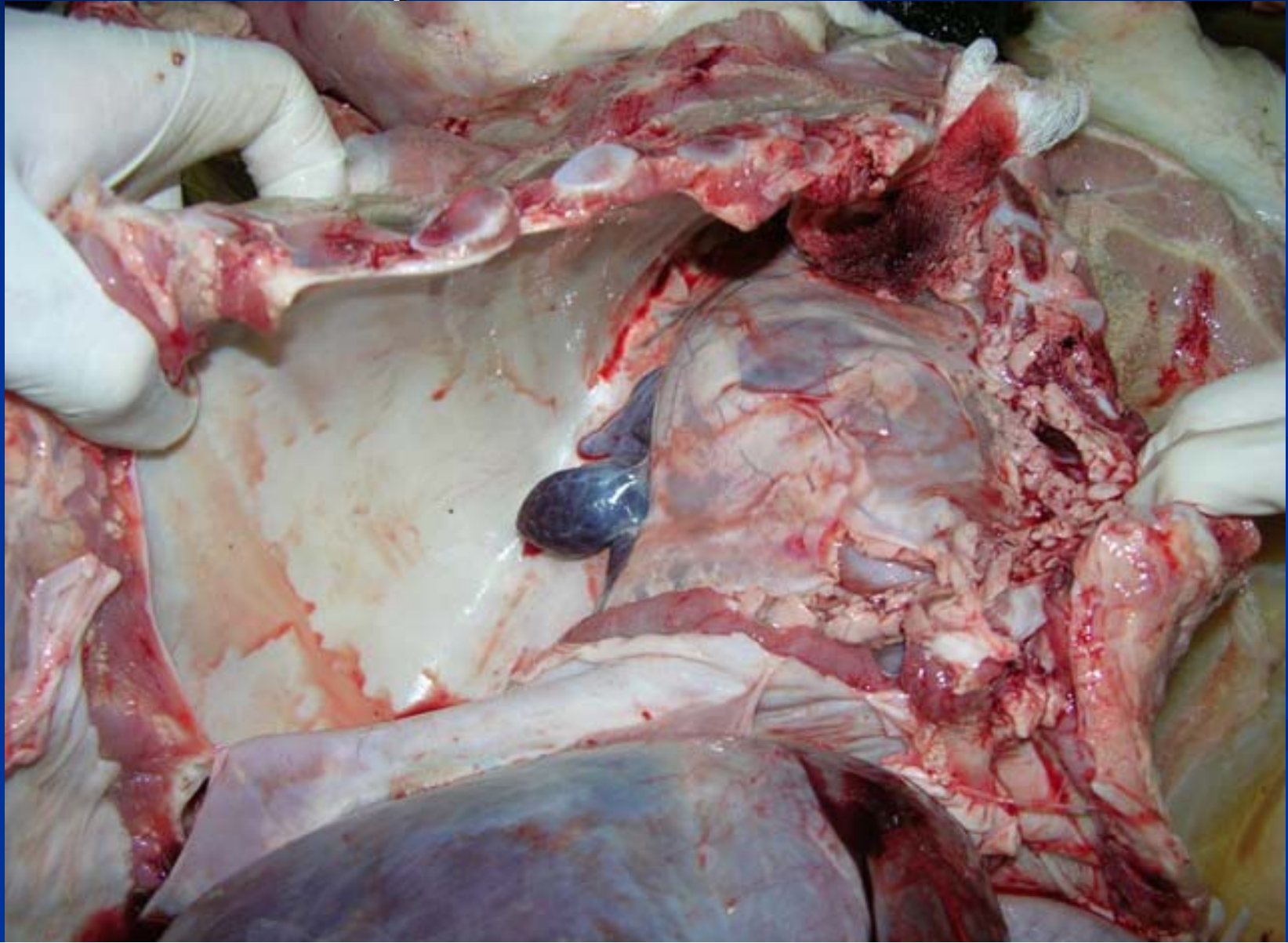
Congenital Lung Defects

- Pulmonary hypoplasia and anasarca (HPA)
 - An emerging genetic disease in Shorthorn fetuses in US
 - Anjou-Maine? – one case seen in Illinois
 - In Australia, seen in Dexters (Peter Windsor)

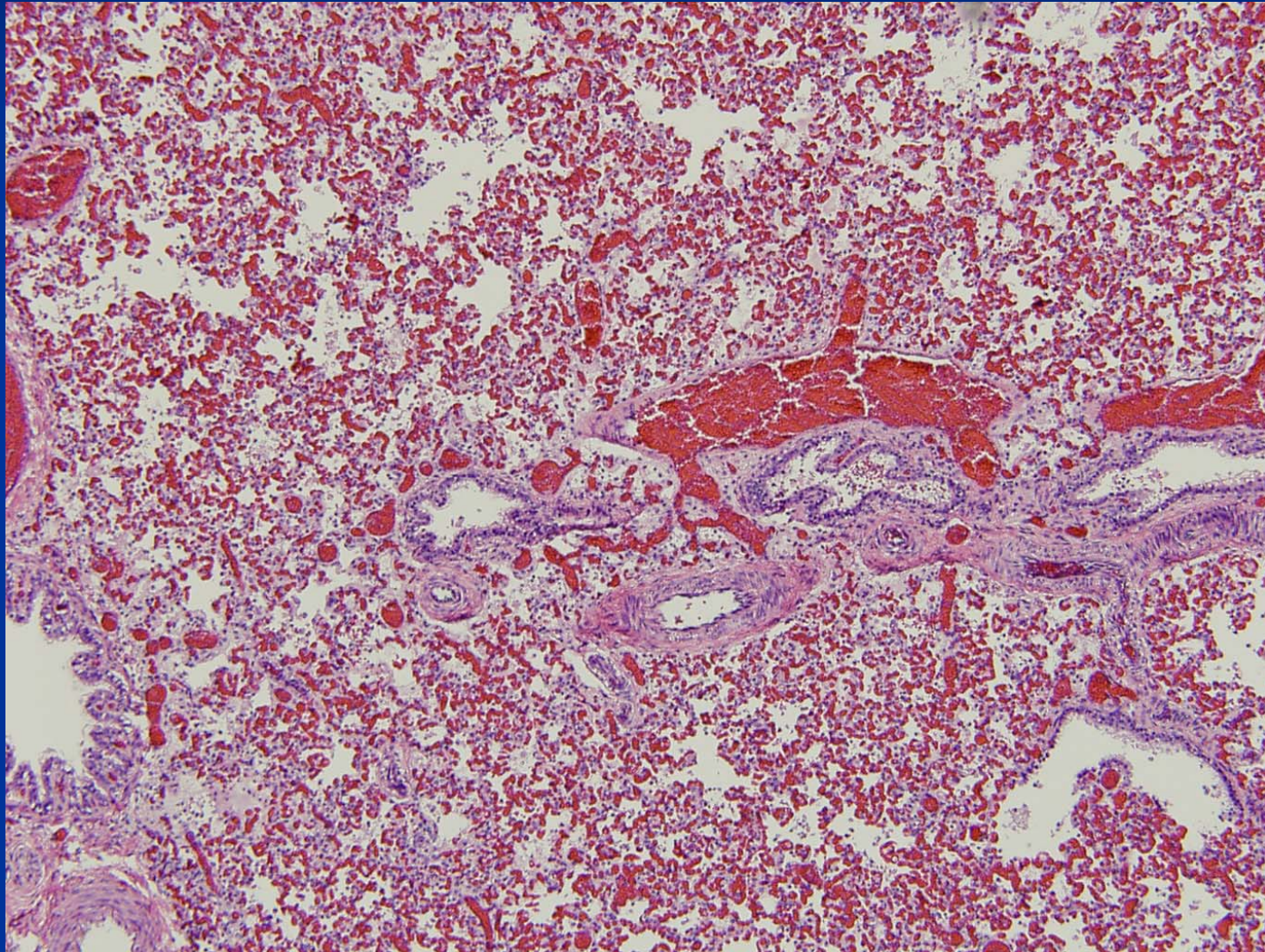
Anasarca



Severe Pulmonary Hypoplasia – Anjou-Maine Fetus



Pulmonary Hypoplasia— Normal Histology -Maine-Anjou Fetus



Bovine Respiratory Pathology

- Viral Diseases
 - Upper respiratory
 - Infectious bovine rhinotracheitis (IBR)
 - Bovine malignant catarrhal fever (BMC)
 - Pneumonia
 - Bovine respiratory syncytial virus (BRSV)
 - Retrovirus infections of goats and sheep