


Pregnancy Failure of the Dog and Cat



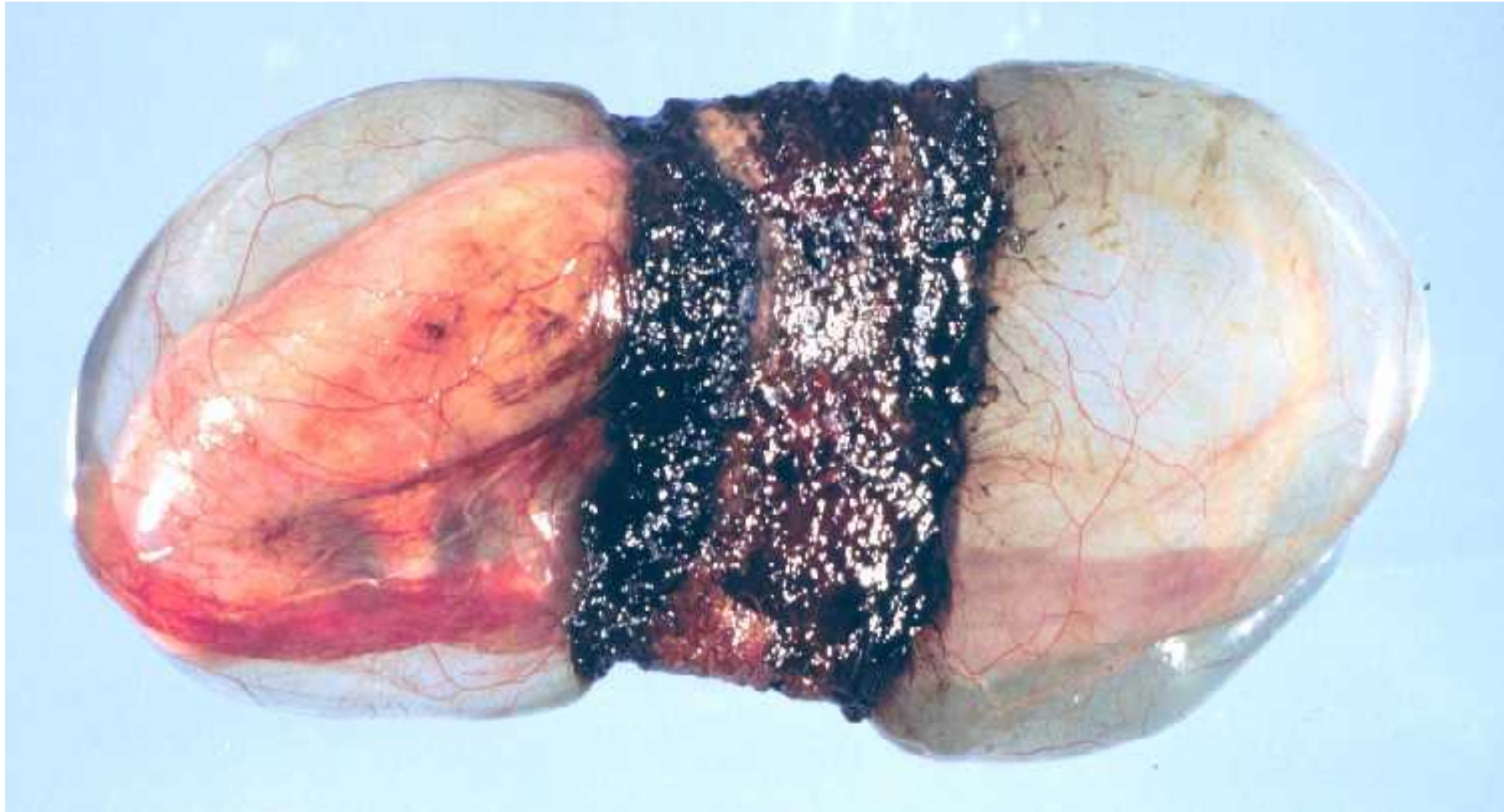
The general principles of identifying failure of pregnancy in this species is exactly the same as other mammals – FOP lecture 1



General Approach to Failure of Pregnancy

- Preliminary discussions
 - Is there a public health issue?
 - **Is there really a problem?**
 - Cost benefit analysis
 - Discuss Isolation
 - Clinical Investigation of FOP
 - Clinical history and interview
 - Take precautions to prevent zoonotic disease
 - **Determine common diseases**
 - **Examine Mother, Fetus and Placenta**
 - **Diagnostic testing**
 - Final diagnosis
 - Treatment or recommendations.
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Canine conceptus

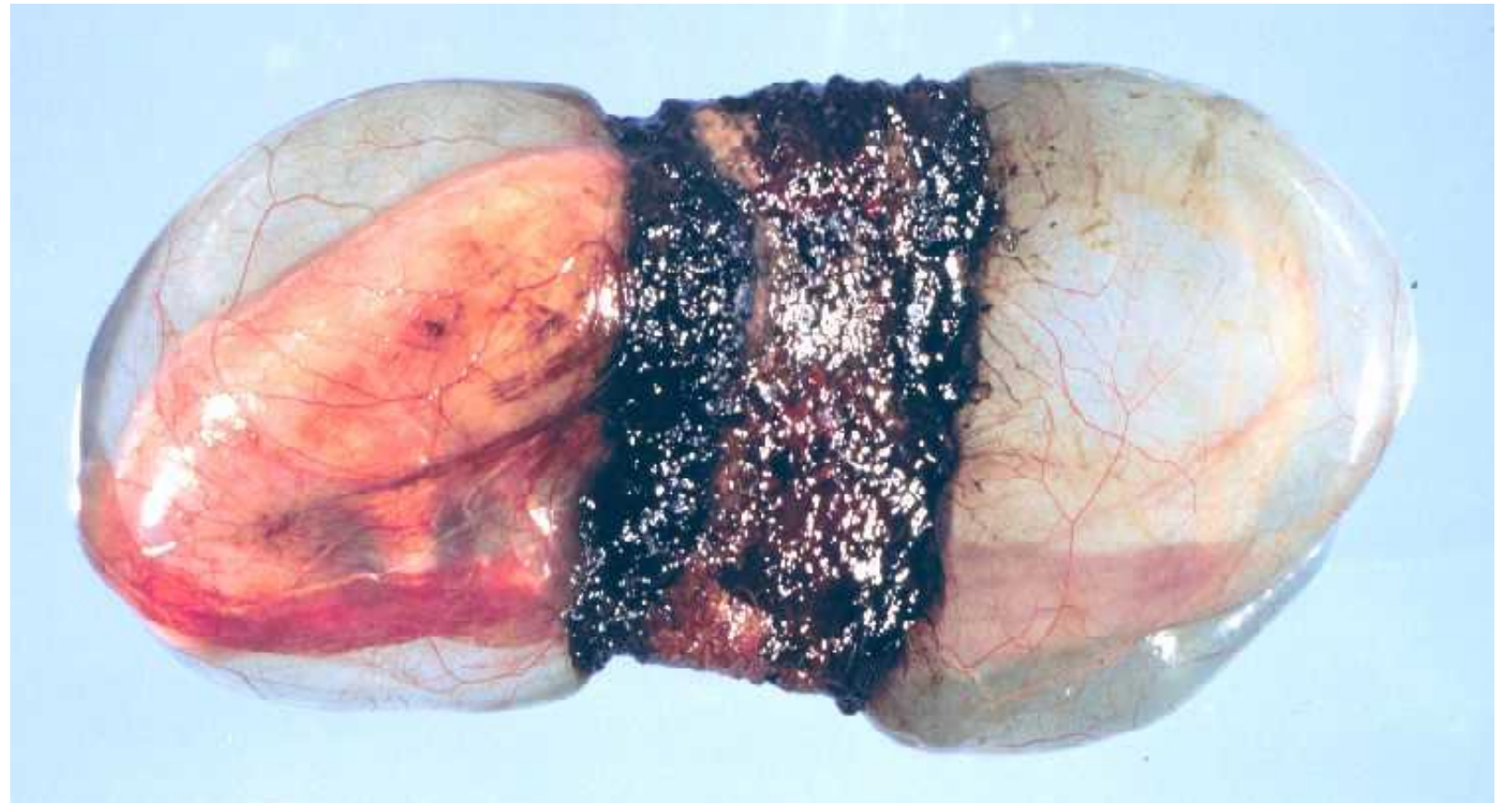







Dogs and Cats

- Zonary placenta
 - sampling





What you can expect with investigating FOP in Dogs

- Up to 20% mortality
 - 103 puppies from 24 dogs
 - 3 stillborn
 - 11 died within 48 hrs
 - 27,221 female dogs
 - Abortion – 6.8%
 - Stillbirth – 7.4%
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What you can expect with investigating FOP in cats

- Litter size 4.6
- Birth weight 93.5g
- Stillbirth 7.2%
- Perinatal mortality 9.1% (to 8 weeks)



Public health issue - zoonotic disease

- List of zoonotic agents for dogs and cats is the same as for all species (FOP general lecture).
- Pregnant cats subclinically carry *Coxiella burnetii*.
 - Poker players pneumonia
 - Caesarian section vet clinic - morbidity.





Reported causes of FOP in dogs

Bacteria

- *Brucella canis*
- *Streptococcus* spp
- *Salmonella*
- *Campylobacter*
- *Mycoplasma/Ureaplasma*

Viruses

- *Varicellovirus canidalpha1* (canine herpesvirus 1 CaHV-1)
- *Morbillivirus canis* (canine distemper virus)
- *Canine mastadenovirus A* (canine hepatitis virus)

Protozoa

- *Toxoplasma gondii*
- *Neospora caninum*

Endocrine

- *Progesterone deficiency (hypoluteism)*
 - *Hypothyroidism*
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Focus on *Varicellovirus canidalpha1*

- Neonates to 4 wks
- Temperature 32⁰C





Reported causes in cats

- *Varicellovirus felidalpha1* (feline herpesvirus 1; FeHV1)
 - *Vesivirus - Feline calicivirus*
 - *Lentivirus - Feline immunodeficiency virus*
 - *Gammaretrovirus - Feline leukemia virus*
 - *Salmonella*

 - Always consider *Coxiella burnetii*.
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