

Appendix 5: Biopsy report of mare 12 submitted from a South African American Saddlebred horse farm in 2012 and categorized as biopsy Grade III

History: Am Saddler mare, maiden 10 years-old, uterine exudate, cultured *Pseudomonas sp*, request prognosis for breeding

Quality of section: fair

Length: 1.5 cm

Luminal contents: nothing

Luminal epithelium: low, distorted and mostly absent

Str. Compactum: sub-epithelial diffuse severe infiltrate (polymorphonuclear and lymphoplasmacytic)

diffuse mild vascular dilatation

Str. Spongiosum:

Stroma: diffuse severe infiltrate (polymorphonuclear and lymphoplasmacytic)

Glands: almost absent; diffuse severe degenerative changes with apoptosis glandular epithelium; scattered focal gland nesting associated with severe peri-glandular fibrosis

Blood vessels: diffuse severe dilatation and multifocal moderate to severe angiosis

Lymphatics: diffuse mild dilatation

Diagnosis: **diffuse severe endometritis and endometrosis with angiosis**

Category: Grade **III** (<10% chance of carrying a pregnancy to term)

CONCLUSION: The prognosis for reproductive potential must be extremely poor within the lower range of the category. This would include consideration of the almost total absence of normal glands observed on this biopsy section with consequent inability to provide for functional placentation.