

## INTRODUCTION AND OBJECTIVES

**CASE 1:** 2004/ PRE/ 6 yo/ No previous foaling/ Vaginal and cervix laceration after breeding (Fig 1)

**CASE 2:** 2016/ SWB/ 13 yo/ Foaled 8 times/ Poor perineal conformation (Fig 2)/ Repeated uterine lavages/ Cervix laceration after parturition (Fig 3).

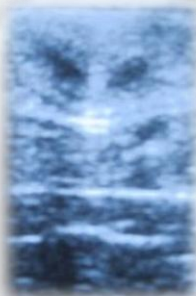


Fig 1- Ultrasound image showing two abnormal hypoechoic areas in the cranial vagina. UAB Equine Reproduction Service.



Fig 2- Poor perineal conformation, where 2/3 of the vulva remain under the pelvis floor. UAB Equine Reproduction Service



Fig 3- Vaginoscopic image showing fibrosis in cervix. UAB Equine Reproduction Service

**The aim** is to establish a connection between the two clinical cases, to determine the importance of the isolated fungus and to asses the necessity of a specific treatment.

## MATERIAL AND METHODS

**CASE 1:** Endometrial (uterine) swabbing, low – volume uterine lavage

**CASE 2:** Uterine lavage

} Uterine cytological analysis  
Aerobic bacterial culture

## RESULTS AND DISCUSSION

	CASE 1	CASE 2
<b>Cytological analysis</b>	Numerous PMNs, unidentified filamentous structures compatible with fungus.	Absence of PMNs, unidentified filamentous structures compatible with <i>Chaetomium spp.</i> (Fig 4)
<b>Bacterial culture</b>	<i>Streptococcus equi</i> sub <i>zooepidermicus</i> .	No bacterial growth.
<b>Fungal culture</b>	<i>Chaetomium spp.</i>	<i>Chaetomium globosum</i> . (Fig 5, 6)
<b>Endometrial biopsy</b>	-	II B –III stadium (notably degenerate)

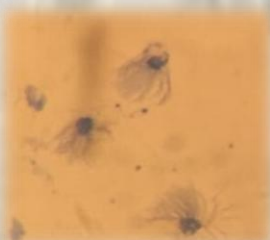


Fig 4- Cytological preparation (Diff-Quik staining) from case 2 mare. UAB Equine Reproduction Service.

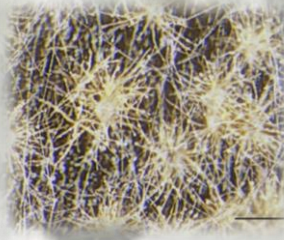


Fig 5- Macroscopic look of *Chaetomium globosum* colonies developed on malt extract agar 2% antibiotic added, after 15 days of culture at 28°C. Microbiology Laboratory of UAB Veterinary Faculty.



Fig 6- Microscopic look (400X) of *Chaetomium globosum* fruiting body. Microbiology Laboratory of UAB Veterinary Faculty.

**CONCLUSIONS:** The failure in uterine defense mechanisms and the existence of predisposing factors (CASE 2), made *Chaetomium globosum* able to colonize the uterine environment.