Evaluation of the conjunctival fungal flora and its susceptibility to antifungal agents in healthy horses in Switzerland

Summary / Zusammenfassung
Objective To perform a prospective study on the conjunctival fungal flora of 64 warmblood horses from the Swiss national stud. Antifungal drug sensitivity tests for A.fumigatus and E. amstelodami have been carried out.
Procedure: Cytobrush samples were taken from both eyes of healthy horses. The collected material was cultured on Sabouraud agar for 21 days at 30°C. Fungal species were identified macro- and microscopically or by PCR. Sensitivity to voriconazole, miconazole, itraconazole, amphotericin B and fluconazole was examined in Aspergillus fumigatus and Eurotium amstelodami.
Results: Twenty-one fungal species were identified. A.fumigatus and E.amstelodami were identified while no Fusarium sp could be cultured. A.fumigatus showed best susceptibility to voriconazole.
Conclusions: Larger numbers of fungal species are needed for susceptibility testing in central Europe. Voriconazole is considered to be the drug of choice for this region.
Key Words: conjunctiva, fungi, equine, susceptibility, Aspergillus fumigatus, Eurotium amstelodami

Keywords / Suchbegriffe
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