

## VETMED RESOURCE HOT TOPIC:

# Equine asthma

Equine asthma is a collective term for chronic inflammatory respiratory disorders of horses seen worldwide. Mild/moderate asthma was previously known as inflammatory airway disease (IAD), whereas severe equine asthma was known as recurrent airway obstruction (RAO or heaves). Asthma can have a significant impact on a horse's performance and quality of life. Severely asthmatic horses may find it difficult to breathe, even at rest.

**VetMed Resource** contains a wealth of information on equine asthma including causes and risk factors, comparisons with human asthma, advances in diagnosis and drug therapy and control through dietary and environmental management.

### VetMed Resource comprehensively covers hot topics that matter

VetMed Resource sources the world literature to provide the complete picture on equine asthma, including information on:

- **One Health:** Equine asthma shares similarities with human asthma, making it a naturally occurring animal model.  
*Comparative review of asthma in farmers and horses.*  
*Current Allergy and Asthma Reports, 2019*  
*An integrative miRNA-mRNA expression analysis reveals striking transcriptomic similarities between severe equine asthma and specific asthma endotypes in humans.*  
*Genes, 2020*
- **Environmental management:** Environmental changes, such as reducing exposure to dust and allergens and improving ventilation, are important for managing the condition.  
*Equine asthma: managing the environment.*  
*UK-Vet Equine, 2019*  
*Owner compliance to an environmental management protocol for severe equine asthma syndrome.*  
*Journal of Equine Veterinary Science, 2020*
- **Diagnosis:** Improving diagnostic methods to identify the type/stage of asthma allows more targeted treatment and management.  
*Antigen array for serological diagnosis and novel allergen identification in severe equine asthma.*  
*Scientific Reports, 2019*  
*Contribution of lung function tests to the staging of severe equine asthma syndrome in the field.*  
*Research in Veterinary Science, 2019*
- **Drug therapy:** Medical management may be necessary to control airway inflammation, reduce mucus and relieve bronchoconstriction.  
*Pulmonary response of severely asthmatic horses after intra-articular administration of methylprednisolone.*  
*Equine Veterinary Journal, 2021*  
*Effect of injected dexamethasone on relative cytokine mRNA expression in bronchoalveolar lavage fluid in horses with mild asthma.*  
*BMC Veterinary Research, 2019*

# Introducing CABI's VetMed Resource

Support your practice and professional development with the best evidence-based veterinary information available.

VetMed Resource is the most comprehensive collection of published veterinary scientific information available online and it has three times the coverage of any comparable open source database.

VetMed Resource is an essential online tool for veterinarians, researchers, policy makers, students and teachers, providing an evidence base to support decision making, continuing education and professional development.

**“To maximize journal coverage and avoid missing potentially relevant evidence, CAB Abstracts should be included in any veterinary literature search.”**

– Grindlay D.J.C; Brennan, M.L.; Dean, R.S., 2012 Searching the Veterinary Literature: A Comparison of the Coverage of Veterinary Journals by Nine Bibliographic Databases. Journal of Veterinary Medical Education, 39(4), DOI: <http://dx.doi.org/10.3138/jvme.1111.109R>



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Our **Sales** team for more information and to request a free trial:

**CABI** Head Office, Nosworthy Way, Wallingford, Oxfordshire OX10 8DE. **T:** +44 (0)1491 829313 , **E:** [sales@cabi.org](mailto:sales@cabi.org)