

Aspects on the Influences of Mycotoxicosis in Domestic Birds: Review

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DOI: 10.23975/bjvetr.2023.141173.1035

Received: 23 July 2023 **Accepted:** 19 September 2023.

Abstract

Mycotoxicosis is a significant concern in the poultry industry worldwide, as it is caused by the ingestion of mycotoxins, toxic secondary metabolites produced by fungi that commonly contaminate animal feed. This review aims to explore various aspects of mycotoxicosis and its influences on domestic birds. It discusses the major mycotoxins affecting poultry, including aflatoxins, ochratoxins, trichothecenes, zearalenone, and fumonisins, and their sources of contamination, such as pre-harvest, post-harvest, and storage factors. In addition, the review highlights the impact of mycotoxicosis on avian health, including immune system suppression, gastrointestinal disturbances, reduced growth and development, and reproductive disorders, as well as its effects on egg quality and hatchability. Furthermore, it presents potential preventive and management strategies, such as implementing good agricultural practices, feed management and quality control, the use of mycotoxin binders and adsorbents, feed additives and supplementation, and veterinary interventions. The review emphasizes the importance of regulatory guidelines and monitoring programs to ensure food safety and mitigate mycotoxin-related issues. Overall, understanding the influences of mycotoxicosis in domestic birds is vital for implementing effective measures to prevent mycotoxin contamination and promote the health and productivity of poultry.

Keywords: Domestic birds, mycotoxins, contamination, health.