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ASPERGILLOSIS: HUMAN AND ANIMALS HEALTH RISK IN UNDER DEVELOPED COUNTRIES

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A *Aspergillus flavus* and *Aspergillus parasiticus* are the toxigenic fungi that cause serious threat to health of human and animals. *Aspergillus* has 4 types AFB1, AFB2, AFG1 and AFG2. The affect is more intrigued in the patients suffering from any disease or are immunocompromised. This disease status and load is further enhanced by the poor sanitation and living conditions in an area. This is a major concern in the part of the world where basic necessities of life are not up to the mark and not follow the international guidelines. Different countries in Asia include Pakistan, India, Bangladesh, Bhutan, Sri Lanka, Russia, China and Thailand. Our major concern is the countries where sanitation and living conditions are poor. This will affect the humans as well as animals in that particular area. A study was focused in Faisalabad region, which included poultry that were fed with diet which had high levels of AFB1. This predisposed is causing clinical signs, disease and pathogenesis to the poultry. Animals that became lethargic were mostly sold to local vendors and ultimately the humans consumed them. The feed when quantified by HPLC for AFB1 had 1065 ppb while the tissue residues contained 171 ppb of AFB1. The humans when their serum was analyzed by HPLC had 29 ppb of AFB1 in them. Results showed that there is lot of Aflatoxin load in the underdeveloped area.

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