Amna Beshir Medani, J Pharmacovigil 2016, 4:4(Suppl)
http://dx.doi.org/10.4172/2329-6887.C1.020

Toxicology as a standard step in the regulations of pharmaceutical industry

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Toxicology is an important, rapidly growing science that illustrates the fact sheet of harmful effects of chemicals from different sources to humans, animals and the environment. Inventory research in pharmaceutical industry is also rapidly growing as well in a somewhat parallel lane. Phases known in drug approval are by no means capable of ignoring the importance of toxicological investigations. The margin of safety of drugs is the first step in the evaluation of the drug safety. Screen laboratory testing for the effect of the drug on different body organs, clinical signs, postmorteum changes, histopathological deviations from normal, drug interactions and, of course, chemical toxicology data sheet of the constituent elements of the drug. This can be achieved in laboratory, *in vitro, in vivo* testing on laboratory animals or in clinical trials and post surveillance studies. World Health Organization in addition to many different international and national bodies and organizations are working together and on separate levels to achieve safer drug approval. This lecture is a hint to clarify the dark in this area.

Biography

Amna Beshir Medani is working with the University of Medical Sciences and Technology, Faculty of Pharmacy, Dept. of Pharmacology and Toxicology, Khartoum, Sudan. She has published more than 12 papers in reputed journals and conferences and has been serving as an Editorial Board Member of repute.

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