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Genes in serious adverse drug reactions

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Pharmacogenomics is the study of genetic variations that influence individual response to drugs. It combines pharmacology (the science of drugs) and genomics (the study of genes and their functions) to develop effective & safe medications that will be tailored to a person's genetic makeup. Since long it has been postulated that various adverse drug reactions have some genetic determinants. To the date various genes have been identified and studied. Presence of particular gene determines individual susceptibility for adverse drug reaction for a particular drug. Genome-wide association studies and HLA genotyping have detected novel associations for serious, idiosyncratic and adverse drug reactions. This poster highlights genes involved in serious adverse drug reactions for drugs which are widely prescribed and occasionally give rise to serious ADR and newly licenced drugs or drugs still in development with liability to give rise to serious ADR as detected during clinical trials based on genome wide association studies, candidate gene analysis and HLA genotyping. Targeting susceptible genes may help to avoid some of the serious adverse drug reactions seen with licenced drugs.

Biography

Asif A Barejia has completed his MBBS from Sardar Patel University, Gujarat. Currently, he is studying the 2nd Year as a Resident in Department of Pharmacology at Government Medical College, Surat.

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