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Innovative Child Resistant Packaging for Pharmaceutical Solid Dosage Forms

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The major oral solid medicines are sold in blister and strips packaging, which are packaged in a carton box. Children, who manage to open such boxes while unsupervised, are in great danger of being poisoned by swallowing the contents. A child resistant packaging (CRP) usually requires a special trick to open it. The aim was to design and validate performance of innovative child resistant packaging (CRP) system with unique features. Materials used were plastic grade, click lock system, and blister pack. The test was conducted on test panels of 100 healthy children between 42 to 51 months old were asked to open a pack. Each panel was divided into 3 groups, viz. 30 children of 42 to 44 months old, 40 children 45 to 48 months and 30 children 49 to 51 months. The panel of 100 healthy adults were divided into 3 groups, viz. 25 adults 18 to 40 years old, 25 adults 40 to 59 years old, and 50 adults 60 to 70 years old. Results showed only 6 % children succeeded to open CRP, while 94 % were failed to open CRP within 5 min. In case of adults, 96 % succeeded to open CRP without imposing any difficulties. There was a successful development of prototype of CRP, which can be used for the packaging of pharmaceutical products. Child resistant packaging deprived children to have access of medicated packaging system which resulted in devoid of any poisonous effect to the children.

Biography:

Dr. Lalji Baldaniya is presently working as Assistant Professor at Anand Pharmacy College, He has 10 years of teaching and research experience. His area of research is formulation development of novel drug delivery systems, dissolution testing, PKPD study and innovation in pharmaceutical packaging systems. He has published more than 20 research papers in journals of national & international repute. He has also presented several papers in national & international conferences. He is recipient of the prestigious award from IPAACG – SciTech Innovation 2016 in Solid dosage form development, and Pedagogical Innovation Award 2017. He has filed two patents. He involved in various research project sponsored by GUJCOST, BIRAC-SRISTI. He is reviewer of national & international journal in his research area of interest.