

Title: Evaluation of drug-drug interaction screening software by healthy information system databases

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Abstract:

BackgroundThe hospital's medical information system has tips for setting up drug interactions, tips for understanding drug interactions, and analyzing data.
MethodsWhen the drug is prescribed by a physician, the system prompts for drug-drug interaction. Collect these relevant data and analysis from prompt files in SAS-EG system from 2017/01/01~2017/12/31.
ResultsDrug-drug interaction screening software include display, prompt and control limited. A total of 65,577 groups of drug interactions were collected from the system. Drug interactions, belonging to display a total of 617(0.94%) groups, control limited of 265(0.4%) groups and prompting of 64695 (98.66%)groups. In the control limited group is the most of Selective serotonin reuptake inhibitor and Monoamine oxidase inhibitors combined induced drug interaction 58(21.88%) groups. Secondly, they are dipeptidyl peptidase-4 (DPP-4) inhibitors include sitagliptin, saxagliptin, linagliptin, and vildagliptin combined induced drug interaction 47(17.73%) groups.
ConclusionThrough the principle of drug interaction database setting and maintenance, it can effectively prompt or control the possible serious drug interactions when the doctor prescribes drugs.