



ORIGINAL RESEARCH PAPER

Pharmacology

ADR APP HOW IT HELPS TO HEALTH CARE GIVERS

KEY WORDS: ADR app, help, Health care givers

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ABSTRACT

Tracking adverse events resulting from drugs once they are on the market has long been a tricky process. Since safety monitoring of medicines as an integral part of clinical practice, the Ministry of Health and Family Welfare (MoHFW), Government of India launched the nationwide Pharmacovigilance Programme of India (PvPI) in the year 2010 to inspire confidence and trust among patients and healthcare professionals with respect to medicines safety. Indian Pharmacopoeia Commission (IPC) under the MoHFW has been functioning as the National Coordination Centre (NCC) for PvPI since April 2011. There has been rapid progress in reporting of ADRs by the healthcare professionals in the past 6 years. India, with a current population of 1.27 billion, is the fourth largest producers of pharmaceuticals in the world with more than 6000 licensed manufacturers and over 60,000 branded formulations in the market^[1] therefore, medicines safety monitoring is an essential element of healthcare and for high-quality medical care. Although drug companies must notify the regulatory authority of any adverse event reports they receive, patient and doctor reporting of these ill effects is mandatory in nearby future India is cementing its place IT sector through mobile connections to reach every individual in a population of 1.27 billion where approximately 77.58% population is already using mobile phones. Hence NCC-PvPI in technical collaboration with N.S.C.B. Medical College, Jabalpur developed a mobile application (adr app) for the healthcare professionals to promote easy and instant reporting of ADR^[2]. I used this app to submit my 10 out of 47 ADRs which are found in my Thesis work “an observational study of adverse drug reactions of antipsychotic drugs in schizophrenic and bipolar disorder patients.” at psychiatry department of N.S.C.B. Medical College Jabalpur (M.P.)

INTRODUCTION

An adverse drug reaction is any unintended response to a drug,^[3] which includes prescription, non- prescription, biological, and herbal drug products. Drug abuse, drug interactions, and overdoses are also monitored using the reporting system. A possible link between a drug and an adverse reaction is sufficient to file a report.

A mobile app may increase the reporting of adverse drug reactions (ADRs) and improve the communication of new drug safety information, improved assessment of ADRs to identify the causal relationship, the severity, and the preventability will aid ADRs prevention or reduce patient burden.

ADR reporting is the cornerstone of drug safety after the release of a drug into the market. It has been shown over the years that ADR reporting has provided early warning in drug safety.

ORIGINAL TABLE No.1 ADRs Reported by App and drug

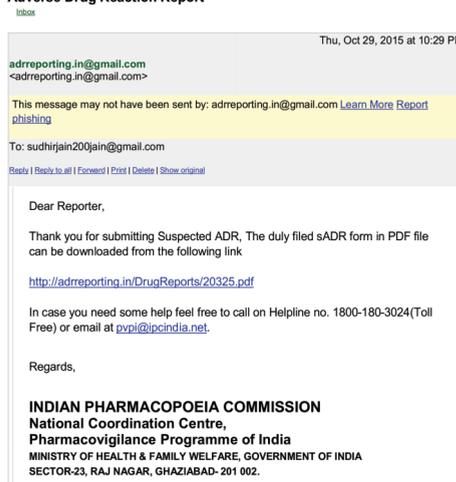
No.	ADR	Drug Responsible
1	Extra Pyramidal symptoms	Haloperidol
2	Tardive dyskinesia	Risperidone
3	Weight gain, Tremors both hand	Olanzapine
4	Weight gain	Olanzapine
5	Weight gain	Risperidone
6	Amenorrhoea, Weight gain	Risperidone
7	Tremors both hand	Olanzapine
8	Weight gain	Olanzapine
9	Weight gain	Olanzapine
10	Weight gain	Risperidone

MATERIAL AND METHOD

In my thesis work conducted between February 2015 to march 2016 I found total 47 ADR of which I submitted 10 ADRs by ADR app which I downloaded in My android phone from Google play store.

after submission through ADR app one pdf file goes to nearest AMC(Adverse drug reaction monitoring center) for Data processing , one pdf file to IPC PvPI (Indian Pharmacopoeia commission- Pharmacovigilance Program of India) vibase for further action by this way there is no paper work and instantaneous reporting at actionable level. And one copy forwarded to whom who submit ADR in his/her email ,here below is one copy of email for example which is forwarded to me at my email (sudhirjain200jain@gmail.com)..

Adverse Drug Reaction Report



Result

By this method (adr app) I enjoyed paperless work, instantaneous reporting of ADRs, feedback from NCC IPC-PvPI Gaziabad(U.P), support the Pharmacovigilance programme of India and if any error in submitting ADR help from nearest coordinator center.

Discussion

App is customized for reporter, the reporter information need to be filled only once, has auto entry a drug once reported goes into database and get displayed upon next reporting, ADR due to fixed drug combination can be reported with a single entry. There is Algorithm based causality assessment based on WHO criteria[4], there is option to choose nearest AMC, and more specifically No disclosure of confidentiality of reporter. I wish that in future each health care provider will report the ADRs through this app for minimization of morbidity due to ADRs for better health of indian populations.

References

1. Biswas P, Biswas AK. Setting standards for proactive pharmacovigilance in India: The way forward. Indian J Pharmacol. 2007;39:124-8.
2. IPC newsletter PvPI volume 5, issue 12,2015,ISSN:2320-7760
3. Stephanie N. Schatz, Pharm.D., BCPS; and Robert J. Weber, Pharm.D., BCPS Adverse Drug Reactions
4. About, ADR reporting app by Dr. Sachin Kuchya & PvPI from google play store for submitting suspected adverse drug reaction.