Drug Utilization Pattern of Psychotropic Drugs Prescribed in the Psychiatric Department of a Tertiary Care Government Hospital, Rajasthan

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Abstract:

Introduction: Psychiatric disorders form an important public health priority and major causes of morbidity. Drug utilization studies are a pre-requisite for the formulation of drug policies. This review identifies the problems that arise from drug usage in health care delivery system and highlights the current approaches to the rational use of drugs.

Objectives: to delineate the various drugs used in psychiatric disorders to find discrepancies, if any, between the actual and the ideal prescribing pattern of psychotropic drugs and to assess prevalence of various psychiatric illnesses.

Methodology: The retrospective non-interventional, study of 6 months duration (1st Apr 2015 - 30th Sep 2015) was carried out by analyzing the copies of prescriptions of patients who had visited the O.P.D. of the Psychiatry Department of J.L.N. Medical College & Associate groups of Hospitals Ajmer. After taking prior approval from Institutional Ethics Committee, we randomly collected 135 copies for each month, a total of 810 carbon copies were selected for study.

Result: Maximum number of patient's i.e. 395 (48.77%) were in the age group of 21-40 years. Depression was the most common psychiatric illness (27.53%) followed by substance abuse (18.15%). Oral formulations accounts for 99.55% of total drugs prescribed and among oral formulations; tablet (88.43%) was the most prescribed dosage form.

Most common classes of drugs prescribed for psychiatric indication were anxiolytics (26.95%) followed by antidepressants (15.28%), antipsychotics (14.43%), anticonvulsants & mood stabilizers (7.87%). Among antianxiety drugs, Clonazepam (45.84%), Escitalopram (29.79%) was the antidepressant of choice overall. Olanzapine was most commonly prescribed antipsychotics. Among typical agents, Chlorpromazine (9.23%) was the most commonly prescribed antipsychotic. Sodium Valproate was the most commonly prescribed as anticonvulsant (46.25%) & mood stabilizer (49.38%).

Keywords: Psychiatric disorders, Drug utilization

I. Introduction

Mental disorders are usually associated with significant distress in social, occupational, or other important activities. Major proportions of mental disorders come from low and middle income countries. Psychiatric disorders form an important public health priority and major causes of morbidity. Of the top ten health conditions contributing to the Disability Adjusted Life Years (DALYs), four are psychiatric disorders.

For the treatment of psychiatric disorders, a wide array of psychotropic drugs is available. Psychiatrists are now very keen to use newer psychotropic medications in psychiatric practice which require vast study on their utilization and consequences on real life effectiveness and safety in actual clinical practice. Various factors like cost of drugs, local paradigms, etc. play a role in the selection of drug therapy and hence, affect the outcome. It is impossible to give suggestions for improving the attitude of physicians regarding the pattern of prescription without the knowledge of utilization pattern of drug.

Prescription order is an important transaction between the physician and patient. It brings into focus the diagnostic acumen and therapeutic proficiency of the physician with instruction for palliation or restoration of the patient’s health. Now a days prescribing pattern is changing and it has become just an indication of medicine with some instructions of doses without considering its rationality.
The rationality of prescribing pattern is of utmost importance because, bad prescribing habits includes misuse, overuse and underuse of medicines which can lead to unsafe treatment, exacerbation of the disease, health hazards, economic burden on the patients and wastage of resources. [9]

The principle aim of drug utilization research is to facilitate rational drug use in population. For the individual patient rational drug use implies the prescription of a well-documented drug in an optimal dose on the right indication, with the correct information and at an affordable price. Drug utilization research affords a baseline reference points about the effect of diverse interventions in prescribing the concerned drugs. [10]

Setting standards and assessing the quality of care through performance review should become part of everyday clinical practice. [11] It oversees the observance of standards of medical treatment at all level of health care delivery system. It is concerned with the evaluation of medical care in retrospect through analysis of clinical records; to provide full benefits of medical knowledge effectively and rationally. [12]

It is a component of medical audit that does monitoring and evaluation of the drug prescribing patterns and suggests necessary modifications in prescribing practices to achieve rational therapeutic practice as well as cost effective health care. [13]

Bringing information on patterns of existing practice together with information on appropriate practice is an essential component of efforts to improve healthcare. This is possible only when each and every prescription in the hospital is audited by a prescription auditing team.

The process of prescription auditing in its broad sense include prescription monitoring, drug utilization studies, prescription pattern studies, study of prescription habits of doctors, adverse drug reaction monitoring, drug interaction monitoring, criteria based prescription auditing and many other activities. But the grass root activities include checking the prescription for drug name (brand name or generic), strength, formulation, dose, and route of administration, frequency, duration of treatment and drug allergies.

Drug utilization studies are a pre-requisite for the formulation of drug policies. This review identifies the problems that arise from drug usage in health care delivery system and highlights the current approaches to the rational use of drugs.

Data of utilization patterns of drugs at out-patient departments of tertiary care teaching hospitals and analysis of that data is a very beneficial measure to formulate guidelines for improving the pattern of prescriptions aligned to rationality & effective outcome of the treatment with cost effectiveness. [14]

Measurement of drug use in health facilities not only describes drug use patterns and prescribing behavior but also helps in the identification of factors responsible for the practice of polypharmacy and the problems associated with it. [15] Setting standards and assessing the quality of care through performance review should become part of everyday clinical practice. [16] Keeping this in mind, present study was conducted to delineate the various drugs used in psychiatric disorders to find discrepancies, if any, between the actual and the ideal prescribing pattern of psychotropic drugs and to assess prevalence of various psychiatric illnesses.

II. Material and Methods

The retrospective non-interventional, study of 6 months duration (1st Apr 2015 - 30th Sep 2015) was carried out by analyzing the copies of prescriptions of patients who had visited the O.P.D. of the Psychiatry Department of J.L.N. Medical College & Associate groups of Hospitals Ajmer.

After taking prior approval from Institutional Ethics Committee, we randomly collected 135 copies for each month, a total of 810 carbon copies were selected for study. To avoid undue bias of the physicians during prescribing to a patient, the principal copies were obtained from the office of the department of Psychiatry, J.L.N. Hospital, and Ajmer. Information on demographic profile, diagnosis and treatment were spread over different age groups. Study will include patients suffering from a psychiatric illness were included. In-patients, Diseases other than psychiatric illness and those cases in which diagnosis is not certain were excluded. The minimum sample size required in this study is 810 cases at 95 % confidence interval and 10 % allowable error to verify the expected proportion 30 % depression which was the most common group of psychiatric conditions found in patients attending psychiatry outpatient department as per the seed article.

Data was analyzed disease-wise as per “International Classification of Disease” (I.C.D. - 10) as recommended by W.H.O. (1994) and drug-wise as per “Anatomic Therapeutic Chemical” (A.T.C.) classification recommended by W.H.O. (1993).

Statistical Analyses

Statistical analyses were done using computer software (SPSS Trial version 20 and primer). The qualitative data were expressed in proportion and percentages and the quantitative data expressed as mean and standard deviations. The difference in proportion was analyzed by using chi square test and significance level for tests were determined as 95 % (P< 0.05).
III. Observation

Total number of Prescriptions were studied 810, the M: F ratio was 1.86:1. Out of total 810 patients, 527 (65.06 %) were males whereas 283 (34.93%) were females. No significant difference was observed according to age and sex. Cases were more in 21 - 40 years of age group in both the sex. (49% in males and 48.41 % in females) followed by 41 to 60 years of age group (35.5% in males and 30.39% in females) least were in 0 to 20 years and > 80 years of age group.

Out of 810 prescriptions analyzed, 59 (7.28%) prescriptions were of patients below 20 years of age i.e. these patients were of Group 1. Maximum number of patients belongs to Group 2 (48.77%). The next major number of patients was in age Group 3 i.e. 273 (33.70%). 77 (9.51%) patient belongs to age Group 4. Also there were 6 (0.74%) patients who belongs to Group 5. 27.53% prescriptions were of depression, 18.15% were of substance abuse, 15.19% were of bipolar disorders. 13.70% prescriptions were of schizophrenia, 8.15% were suffering from anxiety disorders. 5.56% prescriptions were of seizure disorder. Rest 11.72% prescriptions were of other psychiatric illness. Other psychiatric illness includes insomnia, headache, migraine, mental retardation, dysthymia, obsessive compulsive disorder, alcohol withdraw, nocturnal enuresis, dementia, parkinsonism, vertigo etc.

No significant difference was observed in Schizophrenia & Other Psychoses Anxiety Disorders, Bipolar Disorders and Seizure Disorder according to sex. Depression was significantly more in females as compared to male (35.34% Vs 23.34%) while Substance Abuse was significantly more in males as compared to female (26.76% Vs 2.12%) P<0.001S. The difference may be attributed to hormonal influence, childbirth effect & various psychosocial effects on women. Tablets (88.43%) were the dosage form of choice by the prescribers, followed by the capsules (10.57%). Injectables and liquid dosage forms were also prescribed in specific patients for better compliance.

Anxiolytics (26.95%) and antidepressants (15.28%) were the most frequent classes of drugs that were prescribed, followed by antipsychotics (14.43%).Next most commonly prescribed agent were vitamins 13.92%. Anticonvulsants and Mood Stabilizers (7.87%) were also frequently prescribed. Medications for GIT (6.44%) and analgesics (7.12%) were prescribed least. Other drugs include anticholinergics, antihistaminics, antivertigo drugs, drugs for substance abuse, antibiotics, nootropics etc. which constitutes around 7.98% of all drugs prescribed.

Overall Prescribing Prevalence of Various Antianxiety Drugs: Out of total 3076 drugs prescribed, 829 were antianxiety drugs (26.95%). Clonazepam (45.84%) accounted for most commonly prescribed anxiolytic drug followed by Propranolol (21.71%). Diazepam (10.86%) and Chlordiazepoxide (10.74%) were prescribed with nearly equal frequency among overall anxiolytic drugs. Lorazepam is least commonly prescribed antianxiety drug (1.20%) during the study.

Antidepressant Drugs: Escitalopram is drug of choice (29.79%) among all antidepressants, followed Fluoxetine (24.47%), Sertraline (21.91%), and Fluvoxamine(0.64%). Imipramine and amitryptiline were prescribed with a prescribing frequency of 8.72% and 10.21 %. Among atypical antidepressants Mirtazapine and Bupropion were prescribed with a frequency of 3.83% and 0.43% respectively.

Prevalence of Antipsychotics: They accounted for 14.43 % of total drugs during the study. Olanzapine was highly prescribed (7.18%) antipsychotic drugs among all the antipsychotics while study, followed by Risperidone (4.55%) and Chlorpromazine (1.33%). Rest antipsychotics with decreasing order of prescribing frequency are Haloperidol (0.69%), Trifluoperazine (0.32%), Flupenthixol (0.23%), Aripiprazole (0.1%) and least Clozapine (0.1%).

Prevalence of Anticonvulsants and Mood Stabilizers: Accounted for 7.87% of total drugs prescribed during the study. Sodium valproate was the anticonvulsant of choice prescribed during the study with a prescribing frequency of 46.25%. The next most commonly prescribed agent was Phenytoin (25%) followed by Phenobarbitone (22.5%). Clonazepam was also prescribed as an anticonvulsant (6.25%) while during the study. Among mood stabilizers also Sodium Valproate (49.38%) was prescribed in preference to Lithium Carbonate (24.7%) and Carbamezapine (25.92%) while during the study.

Prevalence of Vitamins, Minerals, Haematinics and Other Supplement Drugs: They constitute about 13.92% of all drugs prescribed during the study. Vitamins accounted for 80.61% of total prescribed drugs within the group. 12.14% were iron a preparation, including both ferrous salts alone as well as ferrous salt with folic acid, within the group. Calcium preparations were 6.78 % whereas UDCA accounts for 0.47% within the group.
Prevalence of Various GIT Drugs: Proton Pump Inhibitors were the choice among GIT drugs during the study (48.99 %), followed by prokinetic drugs (20.71 %). Proton Pump inhibitor (PPI’s Combinations) and H₂ Blockers (8.08 %) were also prescribed in a significant amount. Antimotility drugs, antispasmodics and laxatives were prescribed in 4.04 %, 1.01 %, and 2.02 % respectively.

Prevalence of Analgesics, Antipyretics and Muscle Relaxants: Opioid analgesic Tramadol is the most commonly prescribed drug (47.49%). NSAIDs combinations (39.27%) were preferred over NSAIDs alone (8.22%) by the prescribers while during the study. Least prescribed drugs were antimigraine drug Flun oxazine 2.28% and Muscle Relaxants Baclofen and Diclofenac Paracetamol Chloroxazone Combination 2.74%.

Average number of drugs per prescription was 3.80 in our study. About 99 % patients were exposed to 2 or more drugs. Most of the prescriptions contained 3 to 4 drugs per prescription. It was also found that 6 and above drugs per prescription (5.80%) were also prescribed.

IV. Discussion
This study was carried out to find out morbidity pattern of psychiatric diseases and prescribing trends of psychotropic drugs. The study of prescribing patterns seeks to monitor, evaluate and if necessary, suggest modifications in prescribing patterns so as to make medical care rational and cost effective.

The percentage of male patients on medical treatment for psychiatric illness was higher than female patients. Nearly similar results were also observed in a study carried out in outpatient department of psychiatry at tertiary care teaching hospital in Bastar region (68.18 % males v/s 31.81 % females). Another study conducted in schizophrenia patients in Nepal has also shown similar results. This may be due to the reason that males in the Indian Scenario had to deal with lots of burdens in their day to day life, be it the pressure of family sustenance, work pressure, social pressure, or burden of financial debts etc. Moreover the lifetime prevalence rate of substance abuse is much high in males as compared to females, thus leading to increased incidence of psychiatric illness in males.

Majority of patients belongs to age group 21-40 years (48.77%). The results are in congruence to study conducted by Tabish A et al & Mukherjee S et al as maximum patients belongs to this age group in their respective studies as well. Increasing use of psychotropic drugs in this age group may be due to increased incidence of mental ill health, improved mental health literacy in general population, reduction in stigma associated with mental illness, increase in drug treatment option and due to more vigorous marketing of such agents.

Major depression was the most common psychotic illness (27.13 %) present. It is also evident from several another studies that Major Depressive Disorder (MDD) is the most common psychotic illness. [19, 20,21] female patients with psychotic disorder presented with more severe mental deterioration in an advanced stage of the illness. This may be due to the lack of awareness by their family members and relatives or it may be due to higher depressive episodes in females due to increase hormonal influences.

Total of 3076 drugs were prescribed, among which oral formulations accounts for 99.55 % & parenteral preparations account for remaining 0.45 %. Our results closely matched with a study conducted by Dutta S, Beg MA et al. Mukherjee S et al and Rode et al [20,21]This may be due to the fact that most of the patients attending psychiatry OPD belongs to adult age group and can take oral formulations safely and conveniently.

Anti-anxiety drugs were the most frequent class of drugs prescribed (26.95 %) followed by antidepressants (15.28 %) and antipsychotic drugs (14.43 %). Similar results were also observed in previously done studies in which anxiolytics were the most frequently prescribed class of drugs, antidepressants were second and antipsychotics were the third most common prescribed category. [20,21]

Benzodiazepines are efficacious for a wide range of conditions such as anxiety, insomnia, tonic-clonic seizures and muscular spasms. In addition they were widely co-prescribed along-with antidepressants and antipsychotics thus justifying the fact that they were the most frequently prescribed drugs among all psychotropic medications.

Anticonvulsants & mood stabilizers, which accounted to be part of 7.87 % prescriptions. A similar result in relation to use of anticonvulsants & mood stabilizers shown by study of Rode SB et al in which the prescribing frequency of these drugs was 7.6 %. [21]

Benzodiazepines group was the most frequently prescribed group of antianxiety drugs. Further among all anti-anxiety drugs, Clonazepam was most commonly prescribed anti-anxiety agent (43.84%) similar finding were observed in Grover S et al. [23] and Rode SB et al [31]

Depression emerges out to be the most common ailment being treated during the study. In our study this finding is a beneficial aspect because current treatment guidelines recommend use of SSRIs as the first-line agents in patients of depression. [23]SSRIs are generally free of sedative effects and safer at high doses. Better tolerability, combined with their mild adverse effects, accounts for their popularity as most widely prescribed drugs per prescription was 3.80 in our study. About 99 % patients were exposed to 2 or more drugs. Most of the prescriptions contained 3 to 4 drugs per prescription. It was also found that 6 and above drugs per prescription (5.80%) were also prescribed.
antidepressants. These results were in accordance to Roopadevi HS et al. They also found that Escitalopram was the most commonly prescribed.

In about 47.03% of patients of depression, antidepressants were co-prescribed with antipsychotics. This is usually accepted as a treatment option for Bipolar Depression and in cases of Refractory Depression. The effectiveness at low doses and a quick response is both very encouraging findings but their use should be justified keeping an eye on possible adverse effect profile of these agents.

Among tricyclic antidepressants, Imipramine and Amitriptyline were prescribed with a frequency of 8.72 % and 10.21 % respectively indicating lesser inclination of practitioners towards tricyclic antidepressants (TCAs).

In our study atypical antipsychotics were prescribed to 82.21 % of patients. Atypical antipsychotics are now rated as first-line agents for treatment of psychoses because their low propensity to cause extra pyramidal side-effects (EPS), efficacy against refractory cases and better control against negative symptoms: better tolerance and low relapse rate and safer adverse effect profile. Atypical antipsychotics alleviate both positive and negative symptoms whereas typical antipsychotics can only treat negative symptoms. These were the probable reasons for more prescribing of atypical antipsychotics (87.71 %) to typical antipsychotics (17.79 %).

In our study among atypical antipsychotics, Olanzapine was the most commonly prescribed agent. Our findings closely matches with study of Grover S et al. The benefit of Olanzapine may be due to its greater efficacy, noticeable improvement of negative symptoms, higher response rate, better maintenance of treatment, and finally lower incidence of adverse effects. Typical antipsychotic drugs accounts for 17.79 % of total antipsychotic drug prescriptions indicating that they still play an important role in Schizophrenia and offer a valid alternative to atypical where atypical drugs are poorly tolerated or where typical are preferred by patients themselves.

Chlorpromazine was the most commonly prescribed typical antipsychotic with a prescribing frequency of 9.23 %. The only injectable antipsychotic prescribed was Flupenthixol. Studies have shown that depot injections are useful in the management of schizophrenia in acute phases and also for maintenance treatment.

Concerns about the adverse effects and cost-effectiveness of parenteral routes of drug administration, are probably the reason for the low utilization of &apos;depot injection&apos; formulation in the psychiatry OPD.

However some atypical antipsychotic also shows dose related EPS including tardive dyskinesia on long term use, weight gain and hyperprolactinemia. Essential difference between typical and atypical antipsychotic is the size of therapeutic index in relation to acute EPS.

Therefore, it has been suggested that therapeutic benefits and adverse effects of antipsychotic drugs should be separated by careful dosing.

Anticonvulsants were prescribed in 2.51 % of prescriptions while mood stabilizers were prescribed in 5.36 % of prescriptions. Their overall prevalence was 7.87 % of total drugs prescribed during the study.

The overall prescribing frequency of mood stabilizers was found to be 5.36% in a study conducted by Rode SB et al which was in close approximation to our study. In a multicentric study conducted by Grover S et al and Avasthi A et al, the most common mood stabilizer prescribed was Valproate.

The overall prescribing frequency of Lithium was 1.3% while during the study. As similar to this the prescribing frequency of Lithium was 1.3% in a study conducted by Thakkar KB et al. Kessing et al. But because of the low therapeutic index for Lithium (Li²), periodic determination of serum concentrations is crucial. The concern about its narrow therapeutic index and difficulty in obtaining drug levels of lithium, explains the low use of lithium in our center. In congruence to our study, Valproate was also the anticonvulsant of choice in a study conducted by Jena M (57.30 %). Vitamin, minerals and hematinics and other supplement comprised of 13.92 % of all prescribed medications. Thiamine holds its major indication in patients of alcohol dependence as it prevents the development of Wernicke Korsakoff syndrome due to severe thiamine deficiency in chronic alcoholics.

GIT drugs were included in 6.44 % prescriptions of all patients attending the psychiatric OPD during the study. Out of which, Proton pump inhibitors (PPI)’s comprised the most prescribed group with a prescribing frequency of 48.99 %. They are the most potent inhibitors of acid secretion available thus were the most frequently prescribed drug among GIT medications. Opioid analgesic Tramadol was the most commonly prescribed agent (47.49 %).

In this present study on an average 81.08% of prescriptions falls under the category of polypharmacy in patients of schizophrenia and depression as per the criterion of multiple psychotropic drugs prescribed to same patient. When studied according to criterion of multiple drugs prescribed for same indication, incidence of polypharmacy is less in depression as compared to schizophrenia.

In depression only 21.9% patients were prescribed more than one antidepressants whereas in schizophrenia the extent of multiple antipsychotics prescribed in single prescription is as high as 41.07%.

Average number of drugs prescribed to a single patient was 3.80 which closely matches with studies conducted by Dutta S et al and Mukherjee S et al.
Drug Utilization Pattern of Psychotropic Drugs Prescribed in the Psychiatric Department of a...

V. Conclusion

All the drugs were prescribed by generic name and were from RMSC-EDL, this indicates the good prescription habit. Prescribing medicines by generic names avoids the confusion and makes the drug therapy rational and cheaper. In our study this government policy was totally followed and all drugs were from state essential drug list. This is an extremely advantageous policy for common people as it ensures health compliance for all without implicating financial burden on patients. Therefore this policy should be followed in other states also.

Bibliography


Table No 1: Characteristics of the Auditing Prescriptions

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<tr>
<th>Age Group (years)</th>
<th>Male (527 (65.06%))</th>
<th>Female (283 (34.93%))</th>
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Chi-square = 7.338 with 4 degrees of freedom; P = 0.119 NS

Schizophrenia & Other Psychoses: 63 (11.95%), 48 (16.96%), 111 (0.062NS)
Anxiety Disorders: 44 (8.34%), 22 (7.77%), 66 (0.88NS)
Bipolar Disorders: 73 (15.47%), 50 (17.67%), 123 (0.18NS)
Depression: 123 (23.34%), 100 (35.34%), 223 (<0.001S)
Substance Abuse: 141 (26.76%), 6 (2.12%), 147 (<0.001S)
Seizure Disorders: 28 (5.31%), 17 (6.01%), 45 (0.80NS)
Other Psychiatric Illness: 55 (10.44%), 40 (14.13%), 95 (0.14NS)

Figure No 1: Psychiatric Disorders

Figure No 2: Overall Prescribed Medicines

Table No 2: Various Commonly Prescribed Drugs and Their Frequency
Table 3: Number of Drug(s) Per Prescription

<table>
<thead>
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<th>Number of drug(s) per prescription</th>
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<th>Total Number of Drugs</th>
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Average Number of Drugs Per Prescription = 3.80