Prescribing psychotropic drugs in general practice:

L JONES, D SIMPSON, A C BROWN, D BAINTON, H McDONALD

A three year longitudinal study of psychotropic drug prescribing in one inner city general practice showed that there was a greater use of such drugs among women and elderly men and women. Repeat prescriptions without consultation accounted for 44% of prescriptions written. We think that any attempt to reduce the volume of prescriptions for psychotropic drugs thanked in ale into account the prescribing habits and accdo of patients.

There is growing concern about the use of psychotropic drugs, the quantities consumed, and the difficulties of withdrawal.¹ Previous studies have used a cross sectional methodology, with evidence based on point prevalence. This paper presents data from a longitudinal investigation of one inner city general practice to establish the pattern of profile the enior partner who wanned to reduce the level of psychotropic drug prescribing. The study also looked at patients' perceptions of psychotropic

Department of Mental Health, University of Bristol and Depart-ment of Community Medicine, Bristol and Weston Health Authority, Preservice Neuroscient 1, (ONE), Preservice Neuroscient 20, Statistical Anton Statistical Antonia Statistical Statistical Statistical Anton Statistical Antonia Statistical Statistical D SAINTSON, Asservice, spreadult in community medicine H McDONALD, programmer

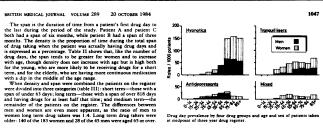
Correspondence to: Ms L Jones, Department of Mental Health, 41 St Michael's Hill, Bristol BS2 8DZ.

MEDICAL JOURNAL VOLUME 289 20 OCTOBER 1984

Practice Research

three year study

1045-1048



Drug day prevalence by four drug groups and age and sex of patients taken at midpoint of three year drug register.

a pronounced rise in the rate of prescribing hypnotics for women speed of and over. Of all women receiving a prescription for a hypnotic pulliser were more commonly given to younger patients, 15°, of women receiving tranquillers were saged 56 or younger and only 7°, were aged 75 or over. Nevertheless, the proportion of patients receiving tranquillers that is to rak with a set. Prescribing of antidepresant for more than the to rak with a set. Prescribing of antidepresant for more than the tot rak with a set of the set by the set of the the set of the the set of the the set of the the set of the the set of the

Discussion

This paper presents some findings from a three year study of psychotropic drug prescribing in one inner city general practice.

BRITISH MEDICAL JOURNAL VOLUME 289 20 OCTOBER 1984

	Age groups (years)									
-	0-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	Tota
				Wome	n					
No Total No receiving prescription Per cent	3 28 10 7	86 7 0	21 182 11-5	35 144 24-3	37 118 31 4	63 138 45 7	128 204 62 7	116 179 64 8	63 88 71-6	472 1167 40 4
				Afen						
No	2	1	7	16	21	22	36	40	8	153
Total No receiving prescription Per cent	32 6 3	20 5-0	10.3	16 91 17 6	21 65 32·3	22 64 34 4	36 84 42 9	40 75 53 3	12 66 7	511 29 9
				Both se	Kej					
No	5	7	28	51	58	85	164	156	71	625
Total No receiving prescription Per cent	60 8-3	106	250 11 2	235	183 31-7	202 42 1	288	254	100 71-0	1678

1048

<page-header><text><text><text><text>

Psychotropic drugs

Doctor	No of months in practice	Average No of prescriptions a month	prescription
Partner 1	7	51.8	15.1
2	8	60-3	15-3
3	16	117.6	21 7
Trainee A	8	45 1	131
Partner 4	26	71-7	157
5	25	47.7	121
6	17	61.9	15.6
Traince B	11	21.5	121
Receptionist*	33	169.8	21.8

TABLE V—Percentage of patients by age and sex who received one or more prescriptions for psychotropic drugs without co

	Age groups (years)									
	0-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +	Tota
				Wome	n					
No Total No receiving prescription Per cent	3 28 10 7	86 7 0	21 182 11-5	35 144 24 3	37 118 31 4	63 138 45 7	128 204 62 7	116 179 64 8	63 88 71 6	472 1167 40 4
				Afen						
No Total No receiving prescription Per cent	32 6-3	20 5-0	7 65 10 3	16 91 17 6	21 65 32·3	22 64 34 4	36 84 42 9	40 75 53 3	8 12 66 7	153 511 29 9
				Both se	Kes					
No Total No receiving prescription Per cent	60 8-3	106	28 250 11 2	235 21 7	58 183 31-7	85 202 42 1	164 288 56 9	156 254 61-4	71 100 71-0	625 1678 37

drugs and explored alternative means of support. Some of the data relating to the prescribing patterns of individual doctors and the characteristics of patients who received various types of psychotropic drugs are reported. A new method of analysing prescription data—drug day prevalence—is described.

Detect The precise had three partners (two men and one woman) and more more transe who worked from a single surgery in an inner origi area of largely municipal housing with many high rise flats, buy the study three younger doctors, two men and one woman, replaced all of the partners. The precise population is the study three properties of the study of the study to the distribution by age and set of the precise population souther that the study three properties of the study of the study. The distribution by age and set of the precise population of the study of the distribution by age and set of the precise population of the study. The distribution by age and set of the precise population for the study of the form of the doctors. Special precision parts were produced that allowed us to obtain a carbon copy of each of a study. The most hole measurements and the study of the study of the most hole measurements and the study of the study of the most hole measurements and the study of the study of the base precision parts. The carbons were sorted and the sign and text writes in from the sectors of the comparison of the study interment in from the sectors of the study of the study of the study of the precision parts. The carbons were sorted and the sign and text writes in from the sectors of the comparison.

PRACTICE OBSERVED

TERMINOLOGY

Method

Psychotropic drugs were those classified in the Monthly Index of Medical Speculities (MIMMS) as hypotoics, tranquillisers, and antidepressants. A fourth category of "mixed" was used to describe those drugs that appeared in more classified as a tranquilliser and an example, a drug may have been classified as a tranquilliser and an

1046

antidepressant. It is important to distinguish the number of "items" on enormity of the second secon

DRUG DAY OPEVALENCE

BRUG DAY PREVALENCE A 1001 day computer calender was made for each patient and the concept of "drug days" deviced so that the number of people with an "active" presentation on each day could be calculated. To least prevalence could then be taken. If a patient had a presentation on 1 January for a 30 day supply this was counted as an active prevation for the 10 days thereafter so that the following 10 days will each be a drug day for that patient. In the diagram patient 1 had been given a 30 day presentation on 1 January, planted 2 had been given a 30 day

TABLE 1—Point prevalence rate of "drug days"

Me 2920 3014 3011 2978 2969 2947 2947 2947 2947 26 7 25 2 29 8 26 1 26 0 25 1 23 1 21 2 mean 25 5 8 January 1981 17 March 1981 3 June 1981 5 October 1981 8 December 1981 76019482 December 1981 March 1982 June 1982 September 1982 3449 3566 3564 3513 3454 3456 3454 3426 79 4 78 8 75 4 76 7 73 7 70 3 70 3 mcan 75 4 274 281 265 265 255 243 241

BLE 11—Mean number of drug days, span (number of days from first drug day last), and density (percentage of days actually subing drugs dense pain) for nests on the register by age and last. Equivas in paramethics are the number listens in a day group. Only patients on practice list throughout the period of the sitter ere in which (2).



Results During the study 74.074 prescriptions were written overall, comprising 61300 non-psychotropic prescriptions and 11249 prescriptions with a psychotropic drug on it; 14.729 psychotropic drug items were recorded and these were given to 1695 patients, 523 met (14⁻⁻ of met negister of an 1172 women (27⁻⁻ of women register). The number of prescriptions for psychotropic drug by the study of the study of the study of the study of the psychotropic drug during the study. This gives a cross sectional very of prescriptions groups the which other studies. Some patients on the register received only one short term prescription and others were received afour through the these years. Sometime patients prescriptions given as "to be taken as required," so the amount, duration, and does could not be the recorded. Of these, it breceved only one prescription so the amount of drug history excluded is and.

only one prescriptions to the amount of drug history excluded is small. To obtain a longitudinal view the drug day prevalence was taken at eight points during the study (table 1). The total number of patients ment, a mean of 255 were receiving psychotropic drugs on each prevalence day (mage 21-2-248) throughout the period, whereas of every 1000 women, the mean was 754 (range 70-57-94). The male to fermale ratio is interfore 1: 3. The change in emphasis between the cross sectional and longituding women (21) and the section section and longituding women (21) are smaller to the section section and longituding women (21) are smaller to the section section and longituding women (21) received psychotropic drug prescriptions, whereas table 1 shows that women are three umen sa likely to have had a psychotropic drug days are line (14), women were prescription psychotropic drug days are line (14).

which were presented paysimility a unger no makes particles and Patients on the register half from one to 1001 drug days. Table 11 shows that the mean number of drug days is not only higher for women but also tries with age. Some patients had prescriptions over a short continuous period of drug days, while others had the same number of drug days spread over a longer time span. For example, patient A had three 30 day prescriptions over three months: one in jamary, one in April, and one in sur months, and patient C had continuous treatment over six months.

	No of men	Percentage of all men receiving psychotropic drugs	No of women	Percentage of all women receiving psychotropic drugs	No of men and women	۰.
Short term Medium term Long term	254 212 45	50 41 9	442 542 183	38 46 16	696 754 228	41 45 14
Total No on register	511	100	1167	100	1678	100



binned with the drug day approach, three out of five patients had a drug day on 1 January and all tice patients had a drug day on 3 January. Thus the point previence of drug days for any day during the period of register could be calculated. The drug history of individual patients may also be described. Patient 1 Ma 03 drug days in January, while patient 3 had 28 days and patient 5 only seven days. Tropic drug them only one drug day was recorded if they were taken concurrently. So that if, for example, the pre-cryption contained drug days were recorded, not 51. When the drug groups were analysed separately, however, this concurrent pre-crypting was taken into account so that the information was not lost. Each drug group was recorded as a separate time.

Rate per 1000 patients

No of patients having a drug day Total No of patients

BRITISH MEDICAL JOURNAL VOLUME 289 20 OCTOBER 1984 seven days on 1, 8, 15, and 22 January; patient 4 had a 14 day pre-scription on 4 January; and patient 5 had a seven day prescription on 1 January. January February Patient 1 1 0 Patient 2 1 0 Patient 3 1 0 Patient 4 1 0 Patient 5 1 0

BRITISH MEDICAL JOURNAL VOLUME 289 20 octobers 1984 the use of psychotropic drugs in the practice. We had hoped to cominue the study to see whether prescribing races might be influenced by introducing alternative approaches to treatment, but further funding was not available and the register was closed. The mission and it seewith time companing but precisable of prescribing habits. Introducing computers into general practice may simplify the work. The study has shown that the use of psychotropic drugs is widespread and has highlighted their greater use among women and elderly people. The number of repeat precipitonis sized widespread motionulation may reflect the somewhat pessimistic view among doctors of the possibility of cutting down the use of such drugs. Any attempt to reduce the volume of psychotropic drugs prescribing would have to take into account doctor's prescribing habits and tati-tudes, as well as look at patient' problems and needs.

We thank the following people for their cooperation in the research: Drs P Golding, C Hoyte, H Morgan, R Price, J Rees, P Thomas, C Baker, and V Holyadek, traineds, and receptionist; Professor H G Morgan, Ms C Round, Mrs N Iles, and Mrs S Warren, who also worked on the study; Jr S Athianon who gave comments and advice on this paper; and Mrs S Taylor and Mrs V Kelly, who helped to prepare the manuscript. References

References
 I Bruzer, K., Swalling synchronysis drags: An Norda's reproductive London: Constant, Norway, N. (2019).
 Constantiso S., ed. Sonal angene of the medical word productive term of the metastic word words where the metastic words words

(Accepted 24 July 1984)

ONE HUNDRED YEARS AGO A boy, aged 6, has recently died at Horwich, Lancahire, from hydrophobis. He had been bitten on Cetober 27th, in the hap, by a collie dog. (It is curious how often the double of hour has a straight of the straight of the straight of the output of hour hisrs, M. Whitaker arrived, and treated the would in the ordinary way with the solid nitrate of aliver. The wound healed, and the boy returned to his usual state of health, but on December 14th he was drowny; on December 16th, he complained of pain over his left eye; on December 17th, he "could to take liquids without" (in the was drowny; and on December 16th, he complained of pain over his left eye; on document was held; and the deputy-coroner, M. W. Hardy, added one more painful feature to a painful case by criticing the treatment adopted. The treatment was not successful, but it is the dimension of aliver was held; and the deputy-coroner, hww. Hardy, and diver yn the used, 'the liquid form' was "mout-more preferable to the solid." Of ourser, in his private capacity, Mr. W. Hardy is it liberty to believe that motion anister of silver introduced into a wound inflicted by a rabid dog is the best line of treatment; official capacity apocial knowledge; and would, herefore, have been more considerity, more in the originate and the corridor of inflicting pain that they would not otherwise posses. He did not pretend, he said, posses any pacial knowledge; and would, herefore, have been more considered; more constrous, and more reascable, if he hat official capacity, picel knowledge; and would, herefore, have been more considered; more constrous, and more reascable; if he hat official capacity, liber of here has here hand and (Drinh Madated more considerate, more courteous, and more reasonable, if he refrained from the criticisms in which he indulged. (British Ma Journal 1884;i:130.)

TABLE IV—Psychotropic drug prescribing by doctor

TYPES OF DRUGS

TYME OF DRUGI Although three are many ways to subdivide psychotropic drugs, we looked as the drugs prescribed in four breed groups: hypotois, ranguillers, and the second second second second second to the Monthly Index of Medical Specializa). Over the period of the strudy offs, of men and Second second second second second second participation of the second second second second second ranguillers, whereas presents we represcribed ranguillers, whereas presents are second second second ranguillers, and maind preparisons was approximately 31. over longer periods. The frast of presentions was approximately 31. over longer periods. The frast second second second second second second range and larger, a higher proportion of women than mere propared and larger, begins of more mere the second range presents for a second second second second second range presents.