## PRACTICE OBSERVED

## Practice Research

## Equity and consultation rates in general practice

MILDRED BLAXTER

Abstract
An attempt was made to distinguish different types of consultations and their variation by social class by a secondary analysis of the second antional morbidity survey in general practice. The greatest difference in consultation rates, comparing patients in social classes IV and V with those in classes I and II, was for life threatening, urgent, chronic, or incapacitating conditions, thus matching the presumed difference in need. For more trivial conditions and for symptoms not specifically diagnosed the difference between social classes was less, and for married women in various ways consultation rates suggested less care seeking by patients in the lower social classes. The difference uses made of primary care is more The different uses made of primary care is more

classes.

The different uses made of primary care is more illuminating and more relevant to the question of equality n use of services than crude overall consulting rates by social class.

In the debate about equality of access to services in the National Health Service consultation rates in general practice have always been an unsatisfactory index. Since equality of access is a fundamental principle, and since consultations in primary care are the first and often the only treatment sought for most episodes of illness, it is important to know whether general practitioners are consulted with equal case and readiness by pattents in all social classes. The interpretation of rates of usage has, however, long been controversial.

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Simple rates of consultation in general practice are available from the General Household Survey, from the surveys of National Merhidry Statistics in General Practice, and from more limited studies. The evidence from the two major surveys has always shown that, for adult men at least, rates of consultation rise with falling social class. Evidence such as this led Rein to suggest that equality of access had been achieved in the NHS, and that indeed patients in the lower social classes made more use of the health service than those in the supper social classes. The crucial been made to derive ration of use to need by social class, usually making use of the data from the General Household Survey, Forster found appreciable declining trends with social class where the measure of need was self declared chronic sickness or suchness absence from work or school, but no noticeable trend when the measure was acute sickness. I'll econcluded that "the apparent advantages of the higher consultation rates in the lower patients, and the state of the survey six also considered." Brotherston derived use meet action of 133 in socioeconomic group 1, declining to 57 in group 6, using "restricted activity days" reported in the General Household Survey, 1972 set the measure of morbidity, and in the Black report a similar, though less pronounced pattern using data for 1974-6 from the General Household Survey, was reported. The General Household Survey, 1972 set the measure of morbidity, and in the Black report a similar, though less promounced pattern using data for 1974-6 from the General Household Survey, was reported. The General Household Survey, 1972 set the measure of morbidity, and in the Black report a similar, though less promounced pattern using data for 1974-6 from the General Household Survey, 1972 set measure of the proposition of the group of the population, over the conditions of use and need do not deal with the same individuals in the numerator and the denominator. Those who reported no morbidity at all are the larges

Standardised patients communing ration

Men aged 15-64 Married women aged 15-64

I-II:IV-V I-II:IV-V Prophylactic procedures and other medical examination at examination accounted for by this category: Examples of diagnoses included in Prenatal and postnatical care, contraceptive advice, contraceptive advice, contraceptive advice, preventive, and presymptomatic procedures of the procedure of the procedure, and typhoid inoculation for tenanus. 103:98 179:48

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Table III giver ratios for a series of different categories of diagnosis. The first three may be expected to overlap to some extent, but all reprepared to the control of the control of the control of the categories how steep gradients between social classes, expecially for men. The third category—conditions that are typically incapacitating or painful—in most important in numbers, inner pan and incapacity.

The category with the greatest social differential is "urgent" because of the quantitative importance of fractures, learestions, and other accidental injuries. The "life threatening" category contains some diseases where there is indeed a steep class gradient in mortality are mail—for example, neoplasms and some diseases where there is indeed a steep class gradient in mortality are mail—for example, neoplasms and some diseases where there is nideed as test polar gradient in mortality are mail—for example, neoplasms and some diseases where there is nideed as the polar gradient in mortality are mail—for externing to the muscolostical system and conditions where the control of the

	Standardised patients' consulting ratios		
	Men aged 15-64 I-II:IV-V	Married women aged 15-64	
Life threatening conditions of all patients consulting	84:114	89:112	
accounted for by this category*)	(9) (10)	(5) (7)	
Conditions requiring urgent	76:121	91:108	
treatment	(13)(15)	(12)(13)	
Functionally incapacitating or	77:118	88:109	
painful conditions	(21)(27)	(17)(19)	
Conditions which could be self	90:109	95:104	
treated	(32)(32)	(23) (24)	
Symptoms not clearly	89:113	87-106	
diagnosed	(15)(14)	(12)(14)	
Consultations related to gynaecology			
and fertility, excluding prenatal		101:99	
and postnatal, contraception		(17)(15)	

"The totals of "all patients consulting," on which percentages are based in all the

	Standardised patients' consulting ratios	
	Men aged 15-64	Married women aged 15-64 I-II:IV-V
Conditions where mortality differentials are great for this	78:125	88-109
ex-age group  (" of all patients consulting accounted for by this category)	(9) (12)	(11)(13)
Conditions where mortality differentials are not great or are reversed for this sex-age group	96:103	88:109 (4) (5)

TABLE V-Conditions requiring long term supervision or specialist referral

	Standardised patients' consulting ratios		
	Men aged 15-64 I-II:IV-V	Married women aged 15-64	
conditions typically requiring long term supervision ( ' of all patients consulting	83:116	88:108	
accounted for by this category)	(15)(17)	(12)(14)	
conditions typically requiring specialist referral transardized referral ratios for all	83:118 (8) (9)	89:107 (8) (9)	
diagnoses	88:110	100:103	

nition of more trivial conditions, where a consultation may not be thought enternual. Or 297, of all conditions can exported were placed to the conditions of the conditions of the condition of the conditions of

CONSULTING BATIOS AND MORTALITY BATIOS

These analyses may say nothing directly about the relation of consultation areas to "treetd." though "need" is likely to be more urgent in the first there categories in table III than in the following two. Another way of inferring need is to consider, for those conditions to which a risk of mortality is attacked, whether consulting ratios match mortality ratios. A selection of the 15 specific diagnoses that are also named as cause of death in mortality statistics, for which the mortality differentials are greaters for men between social classes, results in the mortality differentials are greaters for men between social classes, results in the mortality differential is reversed or is small recults in a smaller difference. Though the ratios change in the expected direction for men, for married women the risk of mortality makes latte or no difference. In other words, compared with other social classes married women in social classes! I'll consult just as much for conditions where their mortality rates are comparatively low, and women in social classes it. I'll consult just as much for conditions where their mortality rates are comparatively low, and women in social classes is the state of the property of the state of the s

So far the results of the analysis have related to rates or ratios of patients consulting, which seems most relevant to whether patients in different social classes are more or less likely to consult for a particular illness. These are not, of course, the same as consultation rates, or the numbers of consultations made by an individual! The numbers and differentials are greater because an individual who consults will operate the consultation of the consultation

illness variations in consulting rates were not systematically related to social class. Indeed, for those who identified themselves as chronically ill, the lower socioeconomic groups had higher rates than their proportion of self reported morbidity would suggest. Once again, the authors concluded that "equity in terms of access appears broadly to have been achieved."

None of these rates or ratios is sutifactory. A "consultation" in primary care covers many different things, which may be confused in aggregated rates. Consultations may be for trivata or checks, or administrative procedures as well as illnesses. Any one patient may consult many times for a single episode of disease, or consult once for many different episodes. Large national samples inevitably confuse all these things, though differences between individual doctors may be smoothed out. On the other hand, it is doubtful whether generalisations may be made from more detailed studies of single principes of the content of

The groups analysed were men aged 15-64 years, classified according to their occupation, and married women of the same age group, classfied by their hashand's occupation. These account for 6 Y of all classified by their hashand's occupation. These account for 6 Y of all classified in the same and the same are of course no lets important, and different treats might be found to apply in these cases. Adult men and married women were, however, the simplest groups to select for this preliminary study.

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Social clauses I and I II and optical classes I V and N were aggregated for two reasons. Enrolly, social clauses I and N are the malificate and numbers of consultations. Fernily, social clauses I and N are the malificate and numbers of consultations for individual conditions in these classes alone are often too small to show appectable differences. The common comparisons between the mortality ratios which apply to the extreme of social class, so considering causes of death for which numbers are that there is often little difference in the lifetyles, behaviours, and economic circumstances that may be relevant to bealth the tween social classes I and II and between social classes IV and V. The aggregated death of the comparison is crudely between the top and bottom quartiles of the population.

All of the individual diagnoses selected for recording into new control of the population of the population of the given and the aggregated classes IV and V. The aggregated design of the population of th

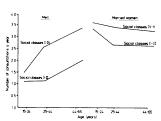
Results
Overall ratios comparing social classes 1-11 with IV-V show the familiar gradient given in sable 1. "All diagnoses," however, include cammitation for administrative purposes, clinic attendance, etc., which cannot be included among consultations seeking help for illness. If these are excluded table 1 shows that the gradient suggesting that promotioned.

In "not side," consultations there is a pronounced basis in favour of the higher social classes, especially for men table II). These account for a smaller proportion of all consultations from entire the formation of the side of the

	Standardised patients Consuming radios	
	Men aged 15-64 I-II-IV-V	Married women aged 15-64
All diagnoses All diagnoses excluding the "not	88:105	94:104
sick" (administrative, prophylactic etc.)	87.106	92:105

the difference was marginal. It is possible that the illnesses in social class IV-V are more likely to be chronic and require more frequent consultations, and in considering the different types of condition as they are been of consultations per global care likely to be neared no feer prophylactic procedures and examinations, and they are also low for such things as diseases of the skin, upper respiratory infections, and they are also low for such things as diseases of the skin, upper respiratory infections, and for instance, or neoplasms—averages are high for all social classes. Whether the average number of consultations per pisode is high or low for any given group of conditions, however, the difference between social classes applies only to men. For married women the difference is in the higher social classes. The explanation may be the greater likelihood of men in manual occupations requiring (at that period) certificates for employment.

The property of t



Number of consultations per person a year ("illness" consultations only, excluding, for example, those for administration, prophylaxis, prenatal and postnatal, and contraception).

There are other explanations for the widening of social class dif-ferentials (for men) when numbers of consultations are considered compared with patients' consulting rates. Doctors may ake to see their patients in social class IV-V more often for the same episods of illnets, or the patients may choose to return more often, or their illnesses may tions. The categories in table III suggest that the last of these explana-tions has some weight. A category of "conditions typically requiring long term supervision," selected by the general practitioners, suggests the same (table V). A final category of "conditions typically requiring special properties to the same class of the same class of

Where differentials in consulting rates for specific conditions are noted between social classes there is no way of showing conclusively whether one group has a greater incidence or prevalence of a condition, whether one group has a greater propensity to consult for that condition, or even whether there is any

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possibility that doctors are treating social groups differently in the disgnoss that they give to similar conditions. This is a major stumbing block that has complicated the discussion of large scale consultation rates. The method adopted here, various types of conditions about which inferences may be made. By categorising conditions in the ways shown in table III it seems that the "excess" consultations for men are noticeably for more serious and urgent conditions, suggesting that "need" is indeed greater. A higher proportion of consultations for social classes II-VI, 27°, compared with 21°, in social classes II-VI. Comparing mortality ratios with consultations for conditions carrying an ortificial ratio with consultations for conditions carrying and consultary risk also suggests that for more serious conditions there may be a rough match between need and use of primary care.

For married women differentials are similar though not so pronounced. In the youngest age group of 15-24 and for gynaction of the consultations of the conditions are consultations. The special particulners caregorised a high proportion of the diagnoses offered to them as amenable to self treatment. Many diagnoses to ableted accounted for large numbers of consultations—for example, nasopharyngitis—with the result that over 30°, of all patients consulting had diagnoses in this category. Anderson, for instance, that their sample of doctors believed hat roughly a third of all surgery consultations were trivial or unnecessary.

This may be compared with the manifest of careverselections of the compared with the compared with the compared with the compared of the compared with the c

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### Conclusion

Conclusion

The general conclusion must be that for men the higher rates of consultation in social classes IV-V are strongly related to consultation in social classes IV-V are strongly related to consultation in social classes IV-V are strongly related to the strong of the strong o

and Dr P M Lambert for helpful comments; and Andrea Francis for

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clerical help.

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Lists of the International Classification of Diseases diagnoses allocated to each of the categories used in this paper are available from the author.

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  Fortier DP. Social class differences in aichness and general practitioner.

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### Instant age-sex register

JOHN HENDERSON

A desire to obtain an age-sex register for use in my practice and two years of experience with microcomputers led me to consider trying to obtain the registration details of all our patients

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directly from the family practitioner committee computer. A traditional age-sex register is usually in the form of a card index. It is set up by clerical staff in the surgery or family practitioner to the control of the control of

Method

I have a Tandy TRS50 Model 1 microcomputer with 46K of memory, expansion interface, twin floppy disk drives, and printer. A microcomputer yistem smaller than this is utilitied by to have the American of the Computer of the Compute

Although the information held at the family practitioner committee is not clinical, those of us who use computers have a responsibility to ensure the security of the data. My access to the family practitioner committee computer came about through personal contacts with the green to all general practitioners and their staff without cloics supervision. Once the disks containing data are held in the surgery then security is less of a problem. It requires more skill to extract information from disks held in the office than to read the registration details written on the front of a medical record enveloge. Dask should not be united to the control of the control o

The future use of the age-sex register will depend on keeping it up to date. The results of other studies (well summarised by Fraser and Clayton') showed that as the years pass the register

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gradually becomes less accurate. With the daily births, deaths, and new registrations of patients it can never be completely accurate without exceptional and foolproof administrative procedures in the surgery. I do not intent to divert any of my staff to this constant chore. At intervals, (as often or as little as required) a relatively short relephone call direct to the family practitioner committee using a modern will produce a data file. One disappointment has been the number of errors found in the patient details: wrong addresses, incorrectly spelt addresses, and patients not on the dispensing list who should be and vice versa. Spending some time on the correcting of these should improve the accuracy of records both for us at the surgery and for the family practitioner committee. Since a correct address is an essential ingredient of repeat prescriptions printed by computer this work will have to be done.

I understand that the patient data was transcribed for the family practitioner committee by a typing bureau and not by the staff. I feel such that local knowlege would have led to more corrects spelling of vilage names.

I thank the family practitioner committee at Gloucester for their

I thank the family practitioner committee at Gloucester for their enthusiasm and help, Rob McKenzie from the Exeter Health Computing Project who wrote the software for the family practitioner comittee, and De Guy Knights who helped me with the whole project.

<sup>1</sup> Fraser RC, Clayton DG. The accuracy of age/sex registers/practice medical records and FPC registers. J R Coll Gen Pract 1981;31:410-9. (Accepted 9 April 1984)

ONE HUNDRED YEARS AGO Cruelty to children—Either greater publicity is given to these pitiable cases, owing, perhaps, to a greatly on the increase. We note two cases, coving, perhaps, to a greatly on the increase. We note two cases recently reported in the daily journals, testifying to extraordinary cruelty and callounness on the part of women, who, perhaps from the nature of things, seem to exced men in, so to speak, tourning helples children. In one case a state of the perhaps the perhaps the perhaps the state of the workhouse, and according to the testimony of the medical officer, Mr. A. Altinon, weighed only treemly-four pounds, and was in a condition produced by prorated deliberately burning the fingers of one of her little daughters, aged 8 years, by pushing her hand on to the bars of the fire-grate while the fire was burning, because the child had been guilty of some perty offences in helping herself to treate and sugar. The other child showed Burdett Courts would doubtlest be unfall in smills case, if it could be arranged that such a society would undertake the searching out of such cases, and the prosecution of the offenders. (British Medical Journal 1884;1:122.)

### Mental illness in inner London

In this paper by Dr C M Harris (12 May, p. 1425) it was incorrectly stated that in the second National Morbidity Study 1970-71 general practitioners were allowed to record only one disgnosis for each consultation; in fact they could record as many diagnoses as they wanted.

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# Rethinking Established Dogma

### Health centres

ANDREW SMITH

The concept of health centres was first mooted in the early years of the century as buildings which would provide comprehensive community health care as well community health care as well are the community health care as well community health care as well are the community health care as well are the community health care as well are the community health care health care that a community health care have a community health care that a community health care have a community health care that a community health care hea

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their status as inoepenuent consistences and service.

In 1966 the Family Doctors' Charter caused a softening of artitudes and the reimbursement of rent and rates of health centres encouraged general practitioners to go into them. By 1970, 8% of general practitioners were working in health centres and more were being planned. Premises for group

Whickham Health Centre, Rectory Lane, Whickham, Newcastle upon Tyne ANDREW SMITH, OBE, PRCGF, general practitioner

practice were also being built but, according to the 1971 sub-committee of the standing medical advisory committee, they were not being designed to offer as comprehensive a range of services as health centres did, especially in preventive and com-munity services. This was hardly surprising, when local authori-ties were reluctant to attach health visitors and district names to group practices. Nevertheless, the subcommittee felt that "a top of premises."

My partners and I went into a health centre because there was no alternative. Our practice was based on several villages, the largest of which, Whicham, began to expand in the 1950 because large private housing estates were built in the fields which, which, which began to expand in the 1950 because large private housing estates were built in the fields which were inherited from the last generation, and the other two in converted houses occupied by caretakers. We were already functioning as a group practice in all but sharing the same premises. We met each day in the original practice house where my family lived, in the centre of Whicham and accessible to the surrounding villages, and close to both the cortage hospital and the chemist shop. Its sutgery had been modernated in the 1950 of the surrounding villages, and close to both the cortage hospital and the chemist shop. Its sutgery had been modernated in the 1950 of new patients. In 1960 we built a group practice contre onto the side of the house, financed by a group practice loan and the bank. This had rooms for a secretary and receptionists, was the first purpose built group practice centre with an appointment system in the north east of England, and was comfortable, informal, and belonged to us, or would when we had paid off informal, and belonged to us, or would when we had paid off mowell to the share of the surrounding the sur



When designing our group practice centre we told our architect what we wanted and he translated it into a modern building. It had a betawing roof and was in complete contrast to the old stone house to which it was attached. My family and I liked it but some of the older villagers thought that it spoiled the house. But it did preserve the old doctor-patient relationship, partly because the consulting room in the gable end of the house stayed much as it has always been endicated officer of health and a We knew, of course, that with a modified officer of health and a would have difficulties. And so it turned out. They produced an unworkable ground floor and added a second storey with rooms earmarked for local authority employees. We did not want them. We needed two suites of consulting examination rooms bigger han the usual because medical students attached to the practice at in on surgeries two mornings a week. Quite impossible said the planners. The worst feature of all was the common room, trainers as well as frequent incursions of groups of students, not only sitting in on surgeries but coming for tutorials and seminars. We needed a common room of our own. Quite impossible. Did we not realise that health centres were supposed to promote team work and that a room common to everybody in twould provide a focus for team work? We pointed out that we had practised teamwork for some years in our complete for health centres, the chief architect, and the chief nature of the planners. It would be the authities of teamwork. They would not budge. Nor would we. So the Department of Health and Social Security was called in to referee. The medical officer responsible for health centures, the chief architect, and the chief nature of the contrast of the contrast of the chief nature of the contrast of the contrast of the chief nature of the contrast of the chief nature of the contrast o

Some luck

Then we had two strokes of luck. Local authority reorganisation changed boundaries and we found ourselves in County Durham no longer but in the metropolitan borough of Gateshead. Its medical officer of health, now called area medical officer, had worked in general practice, knew how it worked, and accepted all our points. There was still the county architect to deal with because he had to finish the job he had started before reorganisation. Our second stroke of luck was that he had moved on and his successor had no preconceived ideas. If we would tell him what we wanted he would do his best to translate it into

BRITISH MEDICAL JOURNAL VOLUME 288 30 JUNE 1984 bricks and mortar. We promptly removed the second floor then set to work again on the ground plan with its vital consulting rooms.

BRITISH MEDICAL JOURNAL. VOLUME 288 30 JUNP 1964 bricks and mortar. We promptly removed the second floor them set to work again on the ground plan with its vital consulting rooms.

It took some time and many meetings with different planners, but eventually we mowed into a workable health centre with plenty of space. It was immediately noticeable that without pictures on the walls the building lacked warms and character. We were told that we must not put up pictures, an instruction to the property of the property of the work of the wall of the wall in the building lacked warms and character. We were told that we must not change the curtains, the colour of which jarred on some of us, so we promptly replaced them with curtains of our own taste. The common room was the disaster we had feared, and for the first few weeks we felt uncomfortable and interestingly paramold as strange persons who did not work in the centre, later identified as jurior administration of the common room was the disaster we had feared, and for group working in lower distinct of the property of the pr

Beale JG. Sick health centres and how to make them better. Tunbridge Wells: Pitman Medical, 1978.