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# PRACTICE OBSERVED

# Practice Research

# Do general practitioners have different "referral thresholds"?

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One of the most interesting puzzles in general practice is why doctors differ so greatly in the frequency with which they refer patients to hospital. Published figures range from less than 0.25 %, except than 1 here 100 consultations, and from only 0.06 %, or 25 %, except than 1 here 100 consultations, and from only 0.06 %, or 25 %, except than 1 here 100 consultations, and from only 0.06 %, or 25 %, except than 1 here 100 consultations, and the practices, so as a beveriny of problem, and distance from the practice; in doctor characteristics, such as age, years in general practices and in a particular problem, and distance from the practice, and no a particular practice, special medical interests, and postgraduate training; and in practice characteristics, such as size of list, work load, urban or rural setting, partnership or single-handed structure, and distance from hospital\*\* may explain many of these marked variations. However, the problem of the explained by what other authors have called a "referral threshold\*\*\* 1 here that is, doctors have a personal level at which the stimulus of a consultation produces a referral. This concept would be supported if doctors were observed to refer at dissimilar rates even when patient, doctor, and practice characteristics were the same. Unfortunately, only a few studies\*\* 1 of the referral process have controlled for more than one of these characteristics at a time.

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previous workers one step further—we compared the referral rates of several doctors while a number of patient and practice variables were controlled. Our purpose was to examine the hypothesis that general practitioners have a personal referral threshold. Practice characteristics were the same for each doctor in the group practice. Our premise was that if adjustments were then made for differences in patient characteristics and the doctors still had different referral rates, then the existence of a referral threshold was supported.

### Methods

The practice is located in the inner London Area Health Authority of Kensington, Chelsea and Westminater. Medical problems in this area have been discussed before, "i" The demographs structure of the practice list is roughly comparable to that of the population of inner London." The prevalence of organic illness in the practice mer London." The prevalence of organic illness in the practice area is similar to that in the rest of the country, except for excessive rates of psychosocial problems." "The practice includes students at a college of London University (98% of all comulations) and readients of a nearly council housing parater (178% of all comulations).

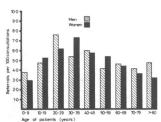
There were four general practitioners in this practice from 1974-8 (three at any one time, as there was a change of partners in 1975). They are designated as A, B, C, and D. They had the following theoremselving

Doctor	Age (1974)	Sex	Years' experience as GP at start of the study	Time in the study (years)	
Α.	43	м	9	19	
В	41	M	3	5	
c	29	м	3	5	
D	27	F	i	31	
E		_	None	4.	

In addition, five traines each practised an average of 11 months during the study period. Since the traines were roughly comparable in previous general practice experience, we combined their consultations, and in the analyses their performances are considered as that of a single practitioner, designated "E." All of the doctors obtained their medical qualifications from medical schools in England. Additional portigodate experiences that might have affected referral rates included psychiatry (A had been a registrar in psychiatry), Balaint group risting (B. C., and D.), and one of the trainers (E) was an experienced obstetrician and gynaecologist.

During the five years of the study 7329 registered patients consulted the practice 60 566 times; an average of 5377 patients were on the practice in throughout this period. This high tumover (27°, of registered patients left the practice in five years) is typical of inner London. "\*Consultations from temporary residents increased the condon." Consultations Allertane for the practice of the practice of the way of the way of the practice of the

Age and sex-The figure shows specific age and sex referral rates for the practice.



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Effect of sould claus—Table I shows the differences in referral rate between the five OPCS social classes. (Full-time rundents were classified in social class II, and married women who worked more than 20 hours a week were classified in social class III, and married women who worked more than 20 hours a week were classified in social married women who worked more than 20 hours a week were classified in social and the social class in the five social classes consulted the practice at different frequencies: 1, 19 consultations per person a year; II, 17, 211, 26, IV, 30; adjusted for the differences in consultations per individual (observed referrals were divided by expected consultations, assuming each social class consulted with the same frequency as all classor), the social class refer on referral rate remained highly significant but in the consultation of the cons

TABLE 1—Referral rates per 100 consultations by general practitioners and by social class

Social class		Whole practice	Dr A	Dr B	Dr C	Dr D	Dr E
ī	Professional	6-5	6.8	5.8	4-3	8.2	64
11	Intermediate	6.6	7.5	5.6	5-0	6.7	6.8
ш	Skilled	5.4	6.8	3.7	4.7	5.5	6.1
IV	Semiskilled	49	4.2	3.4	3.6	5.3	5.6
v	Unskilled	4.7	47	2.8	40	51	5.8

TABLE II—Referral rates per 100 consultations by whole practice and by general practitioner; crude, and adjusted for age, sex, and social class

	Whole practice	Dr A	Dr B	Dr C	Dr D	Dr E
Referrals/consultations	3545/ 65.538*	521/ 7814	706/ 16 598	999	878: 14 218	428 9698
Unadjusted rate? Adjusted for age, sex, and	5.4	6.7	4-3	5.9	6 2	44
social class;	_	64	4.3	5.8	5.8	4.5

\*Referrals and consultations for the whole practice include 13 referrals made by temporary doctors out of 351 consultations.

12.\* 111, p = 0.001, for differences in referral rates between doctors.

12.\* 2.\* 8.0, p = 0.001, for differences in referral rates between doctors.

doctors in the study was small we could not make extensive comparisons. As expected, the absolute differences in referral rates between these doctors of similar age and training, and working in the same practice, were not great. Though certain pairs of doctors did difference in the referral rates (2-11), pc 20-001.

Standardized—Cross studiation of referrals and consultations by doctor and by patient variables showed that for comparison the doctor referral rates should be sundardized-cross referral rates should be sundardized consultations. The control of the control of

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termination of pregnancy, sebaceous cysts, deafness, neuroses, viral warts) were referred often enough to allow comparisons between doctors' referral rates for the same problem. Again, marked and significant (p < 0.01) differences perisated between the five doctors, both before and after standardisation for age, sex, and social class.

Discussion

Previous reports suggest that the well-known differences in referral rates of general practitioners are due to disparities between the practices, the patients, and the practicioners.\(^1\) We isolated the effect of practitioner differences by two referral rates of general practitioners are due to disparities between the practices, the patients, and the practicioners.\(^1\) We isolated the effect of practitioner differences by two disparities of the practicioner differences by two disparities of the process of the problem and the process of the problem and the process of the problem and the practicioner different patient dissimilaries, including (in six instances) the type of problem. The unadjusted referral rates of these doctors were definitely different, and remained so even after standardisation for the patient characteristics of ges, sex, social class, and diagnosis. These presistent differences support the hypothesis that general practitioners refer patients at different referral thresholds.

The idea of a referral threshold unique to one doctor probably combines all those characteristics of doctors that might bear on referral habits: training, esperience, tolerance of uncertainty, sense of autonomy, personal enthusiasms. All of these characteristics operate through a final common pathway—an individual doctor's referral threshold. Taken together, such characteristics operate through a final common pathway—an individual doctor's referral threshold. Taken together, such characteristics operate through a final common pathway—an individual action of the severity of the see data are not definitive proof of referral thresholds. A completely fair comparison of doctor referral acts would require the impossible—that the same patient consult every doctor. In addition, we could not control for the severity of the problems, which other studies suggest affect referral rates,\(^1\) nor could we examine the many diverse purposes general practitioners might have for referring patients, and in a social classes

A summary term such as "referral threshold" fails to capture the rich variety of decision making in general practitioners' referrals to hospital. Our evidence suggests that referral thresholds exist, but a referral is certainly a much more complicated event than such a simple term implies. The complexity of doctor-patient interactions and of decisions to refer a patient can only be suggested by an analysis of objective data.

Conclusions

This study compares the referral rates to outpatient departments of five general practitioners located in the same inner-London practice. Data collected over five years [1974-8] on 65538 consultations and 3545 referrals were analysed. We observed significant differences in the number of referrals per 100 consultations by these doctors (χ\*=111, p<0001). When standardisted for important patient characteristics of age, sex, and social class, overall referral rates remained significantly different (χ\*=68, p<0001). Referral rates for each of six specific problems were also different between doctors, and for sex of the sex

We gratefully acknowledge the work of the other doctors in this practice: Dn H Levitt, P Read, A Elder, and S Webb; also the five practice trainers the practice manager, Mn H Levitt, the recognisation of the process of the practice manager, Mn H Levitt, the recognisation of the process of t

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# Pitfalls in Practice

# **Employment law**

# IV: Can I still dismiss?

NORMAN ELLIS

Many employers, particularly those with no more than a handful of staff, are fearful about the prospects of dismissing staff. Some even believe that the right to dismiss has been stated to the staff of the staff o

Poor management

In fact it is usually the employer who has neglected his management responsibilities who is at risk of being involved in an unfair dismissal case. Many of the difficulties that decrors a manager and the state of the provided and the provided an

cal Association, BMA House, Tavistock Square, London What does dismissal mean? NORMAN ELLIS, MA, PRD, under secretary and senior industrial relations officer

logical and easy to follow. And it should minimise the risk of having to dismiss staff. In short, each employer should have a recognised procedure for handling disciplinary matters and grevances, and what has been described here is in fact the outline of such a procedure. In the staff of th

Unsatisfactory staff

No doubt a few general practitioners employ staff whose performance is well below the standard required. This is probably a legacy of previous neglect of their responsibilities as employers—a casual approach to recruitment, inadequate training and supervision, and the probationary period has been omitted from the contract. The point has been reached where comes or inclination to do anything. Often the BMA.

Although the position of staff who are unsatisfactory but have had long service with the practice is always difficult to resolve, it is not irretrievable. It must be remembered that the difficulty has been largely caused by inadequate management by the doctor, and great care will need to be taken if it is decided to proceed with disciplinary action, which may end in diamissal. The employee who has been working unsatisfactorily, often for performance could be presumed to be satisfactory simply because no one had expressed any view to the contrary. The industrial tribunals almost invariably interpret the lack of any criticism from the employer as a reasonable basis for an employee presuming that his work was satisfactory. Thus the doctor's laudable efforts to retrieve a situation that has been assumed to the satisfactory with the doctor's laudable efforts to retrieve a situation that has been allowed to direct for years and or in a secondare with his decidence with this first of the proper secondary and the difficulties and require the advice and assistance of those who are well experienced in these matters.

Employees have the right not to be unfairly dismissed. Any employee who thinks he has been unfairly dismissed may seek a remedy by complaining to an industrial tribunal. Before a

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