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1423

PRACTICE OBSERVED

Research in General Practice

Finding funds

JOHN HOWIE

In these times of financial cutbacks and increasing cost consciousness even the occasional researcher is being forced to cost and find funds for relatively minor outlays for research, such and funds for relatively minor outlays for research, such and that of secretarial, reception, and ourning staff who might become concerned in his planning of fieldwork. Similarly, the worker whose activities are on a larger scale and who is seeking relatively substantial monies—usually to employ full time or part time research staff—is now finding the competition for available money tighter than for some time and risks wasting time as well as having his enthusiam dented if applications are misdirected or poorly prepared. This paper attempts to help the general practitioner who is wondering about the financial implications of his proposed research, firstly, to cost his project, secondly, to deedle from where to seek help, and, thirdly, to prepare his case for support.

Costing research

Personnel—It is helpful to think of secretarial time (addressing letters, coding replies), receptionist time (drawing out files), nursing time (added clinical tests or measurements), and doctor's time (extra consultations, visits to libraries or colleagues). Much of this may be regarded an normal investment in patient care and some can be funded on this assumption; but the support of colleagues in a partnership may be more easily gained if the study being undertaken may be seen to be financially independent.

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guined if the study being undertaken may or security agained if the study being undertaken may or security independent.

Material—Where circulars require photocopying costs may mount surprisingly quickly. Where substantial amounts of data will be generated fining space may be required and items such as tape recorders and typewriters may be needed to record data. Travel costs may be included under this heading.

Data processing—This is worth considering separately. In times past statistical help and computing resources were usually provided free by universities or health boards, but recently most of these services have been made to function on its liable to be charged and should be thought about in advance. When the cost is being totalled it is usual to add 25%, (to cover National Insurance and superannustion) to full time salary levels and it is necessary to anticipate annual salary increments. It is not normally necessary to allow for inflation or for salary awards but wise to check with any fund giving by the stonous beyond the researcher's control will be met.

body that increases beyond the researcher's control was ne met by the sponsors.

It is a mistake to think that good research needs to be expensive. Good ideas cost nothing, and, indeed, much of the best general practice research has been financed wholly within the researcher's own resource. Looking outside one's own practice for funds has one good effect—if forces the applicant methods are appropriate. On the other hand, delays become almost inevitable and frustration is extremely common; the search for outside resources is like a car journey in bad weather —not to be encouraged unless really necessary.

Sources of money

Sources of money
The following sections discuss several sources of money
available to general practitioners for research. In each some
guidance—inevitably only very general—about the quantity of
funding likely to be considered is given, and some general hints
on making approaches are included. It is sensible to approach
the administrators of funds which seem appropriate for advice
on whether to apply as well as how and when to apply. This is
not regarded as canvassing and invaluable help on preparing
special control of the sense of the sense of the sense
The British Medical Auscration publishes a Research Funding
Guide (available from the BMA, London) and the Association
of Medical Research Charities has recently published the fifth
edition of its comprehensive (but not exhaustive) guide to

BRITISH MEDICAL IOURNAL VOLUME 288 12 MAY 1984

auritis MEDICAL JOURNAL VOLUME 289 12 MAY 1984 drawn between biomodical (cause of disease and experiments in treatment) research and health services (application of existing knowledge) research. The Medical Research Council more often supports the first rather than the second of these kinds of research, sithough it now has a health services research panel. The Department of Health and Social Security (Chief Scientist Organisation) supports health services research rather than biomedical research. The Scottish Home and Health Department has its own Chief Scientist Organisation with one committee for each division of research settivity and solvice and guidance. All of these bodies have regularly expressed a desire to see more funding of general practice research, but the applications have (rightly) to be of a high standard eacdemically and to be seen to be of potentially wide general importance.

Preparing an application

Advice on how to prepare an application is included in the further reading referred to at the end of this paper. The main points to highlight are the importance of consulting the officers of the relevant bodies in advance of starting to prepare an application and the wisdom of taking advice from experienced and the wisdom of taking advice from experienced to the property of intentions and methods of the project, leading into a statement of the problem to be investigated, a concise review of relevant published work, and a precise statement of the detailed aims of the study now being described. Applications should normally be the great of the problem of the pr

be around 2000 words (eight Af pages) long and these items might form about a third of the document. The main section describes the methods proposed, possibly including any pilot results obtained, and including a statement of how the results will be coded and analysed, how methods will be validated, and how non-responders will be followed up or allowed for. Mention should be made of sources of expert help (statisticians in particular) and of where patients (or records or doctors) will be recruited and how permissions will be obtained, explanations given, and confidentiality protected. The expected expenditure has to be justified (allowance should be included for superannuation and national insurance and national salary scales the ethical acceptability of the study should be included.

The process it an exhausting one; although it usually leads to producing a tighter and better project, it also inevitably brings delays and frustration and risks loss of motivation.

Good research need not cost much. Where funds are required they should be costed realistically and defrayed by the simplest methods possible. Many avenues for funding are available and advice should be sought from those who have research ex-perience.

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Hill, Putney, London SW15 3.5W.
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Organising a Practice

Making an appointment system work

D N H GREIG

Appointment systems have been a feature of general practice for at least 15 years and soon most doctors will never have known anything else. Looking at practices to see if they are suitable for training future general practitioners, I have come to the sad conclusion that many doctors still do not understand what appointment systems are about. Typically, these are keen, kind doctors, het ylave an electrocardiograph, and may even be thinking about a unercoomputer. Surgery starts at 8 30 am and patients are booked five munutes apart. There is a red line and patients are booked five munutes apart. There is a red line start of the start of

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but it is not a bow wave of water it is a bow wave of deferred work.

The doctors never left the building until after 11 am, as telephone calls had to be made and repeat scripts written and signed. In one such prescrice they had an average of four new varies per partner a day, or so they said. Even so they had an hour lond an hour for lunch. If I was one of their patients and wanted to see the doctor I would certainly rand swing it towards a visit. After all, if it is serious enough to be "urgent" it is probably serious enough to keep me at home.

I think that there are two main reasons why this situation has come about. I will deal with the most obvious one first. It is the belief that if it is difficult for patients to get an appointment they will not come for trivialities. How true is this? Does having to wait for two days deter people from making appointments? I think not. Suppose you have a new symptom which you think could be the prodrome of something nasty. You docide to see the doctor and get an appointment two days ahead. You then feel better. Knowing how long you have to

funding sources (see below). Advice may also be obtained from the Royal College of General Practitioners (London, or locally from faculty secretaries), from departments of general practice, from regional health authorities and health boards, and from the Health Departments.

GENERAL MEDICAL SERVICES

In effect, financing research through the general medical services element of practice income means that overheads like postage and telephones are paid from basic practice allowance and are tax deductable and that 70%, of the costs for ancillary staff (within the normal Red Book maximum staffing levels) are refundable with the balance being tax deductable. The general practitioner with have to finance or find his own research time, the support of his partners, more often than not research becomes at least in part an out of hours activity. There are substantial advantages in this approach to funding because it may be initiated with minimum delay and little administrative difficulty. Not the least of these benefits is that the risks (not least to pride and enthusiasm) associated with an unsuccessful application to an outside body disappearement practitioner will want to fund will have potential benefit to his patients or will contribute to thinking about the organization of health services there seems no moral objection to using general medical services funding in this way and for this purpose. Indeed, it is hard to imagine any substantial service undertaking that invests so little in "research and development" as dose general practice. At the same time the non-reimbursable and non-tax deductable expenses implied in the arrangements described above are quoted marganes and the financial loss to a group practice of five partners of about £100 certaline would measure to financial loss to a group practice of five partners of about £100 per doctor over one year.

LOCALIV AVAILABLE HEALTH SERVICE FINDING

Sums of money are made available by central government.
(Department of Health and Social Security and the Scottish
Home and Health Department) to regional health authorities
(England) and health boards (Scotland) to help provide small
sums of money for locally organised research projects. These
sums are available for competition on an interdisciplinary
basis and administrative arrangements for their award or
offices. In general, support is given in small aliquots (from as
little as perhaps £100 to roughly £3000) and will normally
provide short term funding to a researcher carrying out a pilot
study before making a more substantial application elsewhere.
Lems of equipment may be wholly or partly funded from
separate funds and again local inquiries are worth making,
of the money goes to general practice. Whether this is because
few good applications are made from general practice or
because general practitioners rarely participate in the work of
allocating committees it is difficult to be sure. A good application
could easily be supported—even if only to demonstrate imparticipate.

ROYAL COLLEGE OF GENERAL PRACTITIONERS

The only important source of relatively protected money for general practice research is the Royal College of General Practitioners, which administers a modest budget through its Scientific Foundation Board. The total sum of money available is roughly £00 000 a year, and this is normally split into amounts between £500 and £5000 to attempt to share resources as widely as possible and still provide sufficient money to give worthwhile support. Inquiries about the likelihood of attracting support

should be made in advance of application to the Scientific Foundation Board at the college in London. Standard advice on the format for preparing applications will be provided.

CHARITABLE SOURCES

As indicated above a wide variety of charitable bodies have funds available to support research, the preferred fields of research susually being reflected in the name of the charity. The fund awarding policy varies from charity to charity and from time to time within charities as priorities and sums available to time within charities as priorities and sums available soft touches and most of them are advised by fairly presignout panels of experts whose leanings and sympathies seem more notable for unpredictability than any particular bias. The Nuffield Foundation, the Nuffield Provincial Hospitals Trust, and the King's Fund are important sources of (usually, but not necessarily) larger scale funding with willingness to support projects over a wide range of interests. Applications are normally referred and research proposals from general practice are well received; priorities for funding vary from time to time and once again advice should be sought before application is made.

PHARMACEUTICAL INDUSTRY

PHARMACUTICAL INDUSTRY

The pharmaceutical industry has a large research budget mostly devoted to funding its own projects whether these are pharmacological or in the areas of testing efficacy and safety. Such are the difficulties of designing and interpreting clinical stitutioners or even small groups of doctors will be able to attract support for scientifically oxide work in this field. It is, of course, common for companies to approach doctors for help with projects under their own control. Each approach should be considered carefully on its own merits and discussion of this kind of research is outside the scope of this paper. The industry is clearly willing to consider requests to help general practice research at many different tevels and appreciable help has been given in atocation with university departments) and in providing sums of money for overheads and general support. Many of the projects supported have had no direct implications for the products of the companies concerned, and, once again, the importance of taking advice on where and how to apply must be emphasized. Applications are less likely to be in competition with parallel requests than is the case with most other funding bodies, and there are rarely explicit rules for submitting or assessing submissions.

OTHER NON-GOVERNMENT SOURCES

Finding a convenient way to categorise sources of funding is as difficult as raising money itself, and this category is not particularly homogeneous. The BMA offers a range of prize and scholarships for various purposes, including research. General practice can and does gain support in this way and details should be sought from the BMA in London. The Health Education Group support research in subjects relevant to their obvious interests, small sums may be made available. "at officer level," while larger applications will have to be referred with the inevitable delay that this implies.

Where applications seek funds for over £10 000 the usual practice is to approach a source of national (government) funding, directing the application to the body most interested in the relevant type of investigation. A division tends to be

wait for another appointment would you then cancel it? Obviously not. After all, you might get symptoms again and hoter and the process from the beginning. On the beginning the process from the beginning on the beginning of the process from the service and if you here beginning to the process from the service and if you have treated yourelf expectantly from the sart. The second reason is to do with workload for each doctor, and it may be that this is where the trouble started. With a shared list, each partner seeing anyone's patients, the receptionists are bound to book any later appointments with the doctor who is given or overwhelmed he will reduce the amount of effort he has to put into the surgery by asking patients to come back unnecessarily. If all the doctors play this game the only delegate to the receptionists the responsibility for deciding what is meant by "urgent." Such behaviour by the doctors is unfair to their staff and may lead to other problems.

Accessibility

The essential qualities of a general practitioner are accessibility and continuity. How do we achieve accessibility? The patent expects to see the doctor when he is ill. When he is parent expects to see the doctor when he is ill. When he is doctor has a problem, too, because he does not want to be idle between appointments. This means that traditional ideas have to be radically changed. Some years ago we agreed that all partners in our practice would have at least one open ended surgery every day. By this we meant that if a patient rang up to stand the patient of the patient of the patient and the patient and patient and patient and the receptions to try always to persuade the patient to come in that morning rather than defer seeing the doctor until tomorrow. This takes the pressure off the evening surgery and also means that the appointment book is sometimes almost empty such as a partner falling ill or even going off as hort notice for pleasure, we do not have to contact so many people to cancel their appointments.

How long should each appointment be? Whereas Thomas found that giving longer appointment be? Whereas Thomas found that giving longer appointment to every body. Longer appointment is not appointment to everybody. Longer appointment is not accome the appointment to everybody. Longer appointment is in magnetic by North American standards, Stott, however, has practicated in the variation in the length of his township. A rigid appointment system does not result in good general practice.

Coping with the long morning in surgery

One thing that we have had to get used to is that we may have to spend much of the morning in surgery. Now that we have a practice nurse we have been deprived of all those helpful "catch up" appointments, such as injections or a blood pressure check; even the intermediate certificate and OSC 1 have gone long ago. Consultations are often more intense as we become

BRITISH MEDICAL JOURNAL VOLUME 288 12 Mey 1984 aware of the many more tasks that they may entail. The answer is to space appointments far enough apart not to feel rushed and overwhelmed by the tyranny of the time table. If gaps occur they may be used for dealing with correspondence, pages occur they may be used for dealing with correspondence, break at 10 o'clock. Any practical procedures such as minor surgery and insertions of intrauterine contraceptive devices are slotted into the morning's programme rather than into a separate session in the afternoon. These give a welcome break when one can use one's hands instead of one's brains.

Since we are now so available in the morning we felt able to put a retriction on the evening surgery. This makes sense because the main users of the health service are deletyl people to get to the surgery after dark. What is more, the laboratory and hospital appointment clerks all disappear after 5 o'clock. There are appointments available for the minority users (the working man or woman). It is surprising how little demand there is for them.

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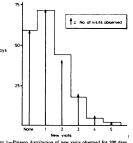


FIG 1—Poisson distribution of new visits observed for 200 days Histogram shows number of visits expected.

How well does it work?

How well does it work?

Whether or not you make changes in your work methods it is important to find how good a service is being provided. One of the simplest measures is the number of out of hours calls. Failure to provide a good service during the day will mean that patients will call the doctor out in the early evening or even at night. The doctor who claims that he has a lot of night calls should be looked at with suspicion. In the same way a high visiting rate might reflect a poor service in the surgery. Using the visiting rate might reflect a poor service in the surgery. Using the visiting rate to monitor the appointment system may be an oblique approach but it has serveral advantages. The numbers that are doctor initiated from those that are patient initiated. Briefly, the idea is that not only should the number of new visits be few but also they should be randomly distributed and should follow a poisson distribution. If they are not randomly distributed there is the possibility that, for example, the receptionists are rationing them if the patient makes a call late in the day, or there are already too many in. Fig 1 shows 200 consecutive visiting days from my own practice and there is a graitlying close fit to the posson distribution. Fig 2 shows the executed number and the serviced number and the

can expect no new visits. Fig 2 shows why. The horizontal axis is the average daily visit rate. The vertical axis is the probability of the event occurring. The curved diagonal lines represent the probability of having at least one, two, three, or more visits. My own average visiting rate is 12 a day, and this is represented by the dotted vertical line. Going back to the practice with lower visits and a long back to the practice with curve, visits advantage to the practice of the property of the practice of the practice

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Practice Research

Mental illness in inner London

CONRAD M HARRIS

From the perspective of general practice, hospital data indicating that the prevalence of mental iliness is much higher in inner London than elsewhere in Britain may be misleading. A study in five inner London practices found morbidity parterns for mental disorder similar to those recorded in a national survey.

Figures from sources outside general practice, such as hospital and other data quoted in A Survey of Primary Care in London,

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indicate that the prevalence of mental illness is much greater in inner London than in other parts of the United Kingdom with, for example, high rates of suicide, addiction to narcotics, and admission to mental hospital. Is it safe to assume, therefore, that an inner London general practitioner's experience of looking after the mentally ill is very different from that of general practitioners' deschedere?

Methods and results

Methods and results
Five practices located in Kensington, Chelsea, and Westminster or
in Camdon and Islington collaborated with the department of general
practice of St Mary's Hoopiand Medical School from 1979 to 1981 to
collect data shout all their patients and consultations. The data used
22 244 registered patients. As expected in this part of London, the
proportion of young adults and the ratio of women to men were both
very high, consultation rates along distents' consulting rates have
Wales for 1981 to facilitate comparisons with other sources of data, the
calculations being based on five year age groups for men and women.
Up to two diagnoses could be recorded at each consultation, they
were made without agreed criteria and coded according to the number

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Data relating to mental disorders: five inner London practices (1980) compared with the second National Morbidity Study (1970-1) (NMS2)

		nental eders		Liety	Depa	ession	Schize	phrenu	Alcoh		dence an	d drug
	Study popula- tion	NMS 2	Study popula- tion		Study popula- tion	NMS 2	Study popula- tion	NMS 2	Stu	brug	ation Total	NMS 2
Consultations/1000 patients No of consultations as "o of total No of individuals consultant 1000 nations	239* 10	298 10	63° 27	73 2:5	94° 40	105 3.5	0.69	6-4 0-15	0.54	5. 0 21	19* 0.75	2-6 0-07 0-8

revision of the International Classification of Diseases (ICD).¹ There were 80 893 consultations, including 3874 with temporary residents; 101 277 diagnoses were recorded, and 20 818 individuals consulted at least once. Of the 7966 consultations for mental disorder, 448 were

least once. Of the 7966 consultations for mental disorder, 496 were with temporary residents.

The table shows findings from the study population, together with statistic derived from the second National Morbidity Study, which provides the most readily comparable data. "The rates for the study population include emporary residents in the numerator but not in the demonitance," managination that is particularly subward but which reflects realistically but work of the practices.

Discussion

There are inherent problems in comparing the two sets of data. Neither study laid down firm criteria for diagnosis, and diagnosic fashion may well have changed during a decade. Some combining of data has been required to equipment of the eighth revision of the International Classification of the Property of the Control of the Control of the Property of the Control of the Condon practices was only 2.5 per patient, even with temporary residents added to the numerator, whereas that of the national sample was 3.0. The London doctors could record two diagnoses for each patient, and did so in a quarter of their consultations, but the doctors of the earlier survey were allowed only one. Despite these problems, the similarity of the two sets of data for mental disorder as a whole suggests that comparisons may still be valid. The most striking feature of the data is that anxiety and depression are found with roughly equal frequency in the two

surveys, but the figures for schizophrenia and for alcohol and drug dependence are very much higher in London. Though there is little doubt that the difference is a true one, these three conditions are not common enough to affect the overall pattern of morbidity greatly: anxiety and depression account for about two thirds of the mental illness in both samples. Since the figures from the five practices are closely similar overall to those of the practices in the national study it seems fair to conclude that data which demonstrate a much greater psychiatric morbidity in London are misleading in the context of general practice.

The principals of the practices participating were: D Cohen; L Jacobs, A Evans, and P Willis, B Jarman, A Eller, and M Constantini-dou; L Newman, A Antoniou, D Litter, L J Stringer, and I Ornir, and M Wilks and C Wag. The work was part of a project funded mainly by the Department of Health and Social Security, and I am grateful to B Jarman and P White for help in creating the recording system and method of standardisation.

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(Accepted 14 February 1984)

Child consultation patterns in general practice comparing "high" and "low" consulting families

PETER D CAMPION, JENNET GABRIEL

All children's consultations with their general practitioner over a 12 month period in a small urban practice were analysed. Overall consultation rates ranged from 2 2 per child a year for 8 to 11 year olds, to 68 for those under 2. Families were grouped according to their average rate

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of new consultations for children, standardised for age. Families with higher consulting rates scored higher on an index of economic disadvantage, with mothers who makes the consultation of any doctor-defined "significant disease" in any child was highly correlated with the family's consultation rate.

Introduction

"Illness behaviour," the processes by which symptoms are differentially perceived, evaluated, and acted on, is the normal antecedent to the act of consulting a doctor, particularly the general practitioner. Thus it has been shown that parents of

BRITISH MEDICAL JOURNAL VOLUME 288 12 MAY 1984

BRITISH MEDICAL JOURNAL. VOLUME 288 12 MAY 1984 children who show any signs of illness go through a complex process of decision making, which includes reference to past experience, the advice of others, and the estimation of risk, ost, and likely benefits. 'I all the state of the state.

Method

A long established single handed Dundee practice, based in the doctor's house, was taken over by the university department of general practice in 1977 and after two years in sparate premises it moved to a new health centre with two larger practices. During the study period (1962-3) three established practitions; fuembers of the property of

CONTACT RECORDING

All face to face contacts with doctors were recorded on contact sheets, noting the type of contact (doctor or patient initiated, and at home, in surgery, or in a baby clinic), and up to three problem statements. Doctors were tasked to record only sufficient details cause of disorder or disease, if known. Casualty attendances were recorded from the duplicate hospital notes, routingly sent after each attendance. The problem statements were coded according to the International Classification of Health Problems in Primary Care*. The international Classification of Health Problems in Primary Care* at the midpoint of the study (under 2 years, 2 to 4, 5 to 7, 8 to 11). All contact data were entered on to computer fit for snashyst using SPSS (statistical package for the social sciences) on the Dundee University DEC 10 computer. University DEC 10 computer. When the problems is the problems of the study (under 2 years, 2 to 4, 5 to 7, 8 to 11). All contact data are also her answers to a test of knowledge of children is these and to a scenario instrument to assess her intentions in hypothetical illness. A From the contact data the number of patient instated units and to a scenario instrument to assess her intentions in hypothetical illness. A From the contact data the number of patient instated with decreasing contacts with age (table I) to a standardized index with decreasing contacts with age (table I) to a standardized index was devised to control for age of child and number of children in the family: Age standardized consultation index. — (Sum of observed contacts, where expected contacts were the average for each age group.

The problems that had been recorded on contact sheets were classified into the main ICD (International Classification of Diseases)

groups and further amalgamated when numbers were small. Table I relates to contacts initiated by the family, usually the mother, and table II to contacts initiated by the doctor or health authority (in the case of immunisation and screening). All such presentive wolk was gradient in overall contact rates, most contacts initiated by patients showing the same trend, but only prevention in the doctor initiated contacts.

Because the same coding was used these trents are directly comparible with published results from the test for a friendly comparible with published results from the test for a friendly comparible with published results from the test for all conditions, for three groups of conditions, and for one specific diagnosis. There is a

TABLE 1—Distribution by age and problem category of 502 contacts ini-patients during the study year (rates per child in parentheses)

	Age group (years)					
ICD group	Under 2 (n = 39)	2-4 (n = 48)	5-7 (n = 42)	8-11 (n ~ 54)		
I Infections	28 (0.7)	17 (0.4)	13 (0:3)	16 (0:3)		
V and VI Mental and sense organs	34 (0.9)	35 (0.7)	16 (0.4)	9 (0.2)		
VIII Respiratory	42 (1:1)	51 (1:1)	45 (1-1)	24 (0.4)		
XII Skin	15 (0.4)	12 (0.3)	7 (0.2)	4 (0:1)		
XVI Symptoms, signs, and ill						
defined conditions	15 (0.4)	11 (0:2)	11 (0.3)	16 (0.3)		
XVII Trauma	15 (0.4)	10 (0 2)	6 (0.1)	12 (0.2)		
All others	10 (0.3)	6 (0.1)	9 (0.2)	8 (0 1)		
All conditions	159	142	108	93		
Overall rates per child per year	4.1	3.0	2.6	1.7		

ICD - International Classification of Diseases

TABLE II—Distribution by age and problem category of 273 contacts initiated by doctor during study year (rates per child in parentheses)

	Age group (years)						
ICD group	Under 2 (n = 39)	2-4 (n = 48)	5-7 (n = 42)	8-11 (n = 54)			
Infections	2 ()	2 ()	6 (0-1)	5 (0 1)			
V and VI Mental, nervous system							
and sense organs	10 (0.3)	21 (0.4)	24 (0.6)	2 ()			
VIII Respiratory	9 (0:2)	12 (0.3)	21 (0.5)	6 (0-1)			
XVIII Preventive	75 (1.9)	31 (0.6)	9 (0.2)	2 (-1			
All others	9 (0 2)	4 (0-1)	2 ()	9 (0.2)			
All conditions	106	74	65	28			
Overall rates	2.7	1.5	1.5	0.5			

TABLE 111—Comparison between study data and Second National Morbidity Survey (1970-1)

Source: Age group:	NMS (0-4)	Dundee (0-4)	Ratio	(5-14)	(5-11)	Ratio
All conditions	3 63	5:53	1.5	1.93	3 06	1.6
Infections	0 26	0.56	2.2	0.22	0 42	19
Respiratory	1 26	1.31	1.0	0.66	1 00	1.5
Prevention	0.60	1.22	20	_	-	-
Acute otitis media	0.29	0.90	3-1	0.13	0.25	1.9

noticeable discrepancy that requires explanation. Consultation rates north of the border are generally reported to be higher than in England. "The difference in age grouping for the older age group might have a small effect on those figures, but the lower age groups might have a small effect on those figures, but the lower age groups are exactly comparable. The voolded increase in preventive constate and the control of the

TABLE IV-Diagnoses used to classify families as "significant disease present"

Problem	No of families with any episodes	Total No of contacts	Per cent of all
Acute otitis media	37	91	12-4
Bronchitis	24	45	6.1
Asthma	- 1	18	2.4
Pneumonia	2	- 3	2 4 0 4 2 3
Allergic rhinitis	i	17	2.1
Eczema	11	12	1.6
Urinary tract infection		7	0.9
Delay in development	•	5	0.7
Rehaviour disorders	ž	21	2.9
Non-suppurative otitis media	2	- 2	0.3
Anaemia	ī	3	0.4
An	61*	224	30.5

*61 families had one or more of these problem

TABLE V—Cross tabulation of family consultation index (quartiles) with presence or absence of significant disease in any child

	Consultation index				
	Low	Medium low	Medium high	High	Total
Any significant disease present at least once	7	11	20	23	61
No significant disease present	21	16	10	5	52

z' = 22 26; 3 df; p = 0 0001.

TABLE VI—Differences in sociodemographic te consulting families (high and low quartiles)

Variable	Mean (low consulting families)	Mean (high consulting families)	,	р
Age of youngest child	4:3	43	-0-07	NS NS NS
Age of mother	31-6	28-5	1.84	NS
No of children Mothers' educational level	20	17	1.74	
(scale of 1 to 4) Fathers' educational level	2 64	1 62	3 75	0.001
(scale of 1 to 4)	2-62	2 10	1-61	NS
Economic factor*	- 0.25	0.54	- 3 18	0.002
Scenario action score*	13:4	16.5	- 2 42	0.02

*See text. NS - Not significant.

"disease variable" was far more important a predictor of overall consulting rate than any socioeconomic variables when all variables the doctor when a serious problem is present, but they attend more often for other problems when a serious problem is present, but they attend more often for other problems when a serious problem has been present. The relation of some of the social and economic variables to the consultation index are shown in tube VI. Families have been divided and lowest consulting quartiles compared for the variables shown. The economic factor was derived by factor analysis from three variables, an economic index (financial state, employment state), a housing index (tens, standard of housing, and occrewosting), and socre was based on whether or not the mother would consult in 10 hypothetical stutions. Higher consulting families were found to be statistically significantly poorer, the mother wound is some state of the statistically significantly poorer, the mother wound is some state of the statistically significantly poorer, the mother worm on the worm on the statistically significantly poorer, the mother worm on the worm on the statistically significantly poorer, the mother worm on the worm on the statistically significantly poorer, the mother worm on the worm on the statistically significantly poorer, who have a mother worm of the statistically significantly poorer, which is the statistically significantly poorer, which is the statistically significantly poorer, which is the statistically significantly poorer, the mother worm of the statistical significant significantly significantly poorer, the mother worm of the statistical significant significant significantly signi

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Consultation rates for children in general practice are higher than for other age groups (spart from very old people). A small precent of the property of the prop

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