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Helping agencies

SIMON A SMAIL

Although many programmes of preventive care can be put into effect using resources drawn solely from within the practice there are several other agencies whose help may be invaluable and who may contribute considerably to the success of preventive

Local agencies

HEALTH AUTHORITY SERVICES

Health authorities are concerned to ensure that there is an adequate level of preventive care in their areas, but an effective overall strategy in an area demands close co-operation between the community services provided by the authority and general practitioners. Health authorities often take responsibility for preventive care for certain groups of patients and may, for example, provide pacifiatries screening and immunisation clinics; provide pacifiatries screening and immunisation clinics; practice and deployment of resources varies from one authority to another, but it is vital that there is good communication between those who are responsible for running the clinical services of the authority and local practitioners to avoid obvious gaps in the provision of preventive care or, on the other hand, unnocessary duplication of effort. Many community medicine specialists are now more sensitive to the potential for practising preventive care in the practice, since it is often more logical for activities used as immunisation, antenatal care, family planning, and cervical cytology to be provided by the practitioner. Community medicine specialists will be able to provide practitioners with advice about local epidemiology but also can often

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give specific advice about the practicalities of initiating a preventive programme, such as a screening programme for

preventive programme, sturn as a sectioning programme. hypertension.

Carrying out a programme of preventive care in a practice will often require the services of district nurses, health visitors, and midwives, who are employed by the health authority. If a practice is planning a new initiative it is important to discuss the plans not only with the nursing staff but also with the nursing officer. There may be the need for resources, but often a need for further training as well. For example, if a treatment-room sister is to help to run an immunisation clinic the health authority will need to be satisfied that the nurse is competent to undertake the additional tasks. Usually the specialist in community medicine will be able to advise if any problems arise.

NEALTH EDUCATION OFFICER

Virtually all health authorities now have the services of at least one full-time health education officer (HEO). He or she is least one full-time health education officer (HEO). He or she is least one full-time health education officer (HEO). He or she is least of the full time of time

Some practices have now set up patient participation groups, which can supply a valuable framework for a preventive campaign. The group itself may help to run the campaign and organia meetings of patients. In some areas Community Health Councils have become interested in preventive care and run co-ordinated local campaigns. Some CHGA have taken a particular interest in tertury prevention (managing extablished disease) by seeking out and publiching facilities for patients with helpful. Mother and haby groups are often attended by the health visitor who may be able to influence the health beliefs of those attending the group, but subsequently individual members of the group may have a more general effect by disseminating ideas of preventive care in the community.

Although there has been a bistory of difficult relationships between some self-help groups and the medical profession there is no doubt that many self-help groups, such as branches of the Ezerma Society, British Diabetic Association, British Epichpy, Association, Alcholie's Anonymous, or weight control groups, can be invaluable for many patients and can supplement the efforts of the practitioner in both secondary (early detection of disease) and tertary prevention.

LOCAL ATTHORITY

The local authority must also be seen as an important resource. The education department is responsible for health education in schools and may welcome advice from local health visitors or doctors. Adult education programmes always include keep fit classes of various kinds. Patients can often be encouraged to take a little more exercise by joining a keep fit class, but other classes that into teach new hobbies may also be valuable in helping patients to find new interests. Cooking classes may even help people to learn something about nutrition. Recently some local authorities have started to run classes that are based on the Vourself! "and include straightforward advice about diet and exercise. Social services departments are responsible for running day centres for elderly people and in England and Wales employ occupational therapistis—both of importance in terriary prevention. They also have details of local self-help groups.

LOCAL MODA

Local newspapers often run features or series on aspects of preventive care. This may stimulate local interest that a practice can use to advantage. Editors always welcome ideas, and practitioners can often act as a resource themselves, either by writing for the newspaper or by providing material or ideas for a features writer. Local radio also has a considerable impact and many practitioners act as the popular local "radio doe." Although any present of the providing material or idea for a features writer. Local radio also has a considerable impact and may practitioners act as the popular local "radio doe." Although any present in the providing the provi

CENTRAL INFORMATION SERVICE FOUNDATION

An information service is available free of charge to all practitioners in Britain and provides information and advice about all aspects of practice management. For example, practitioners may obtain advice about setting up an age/sex register,

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a recall register, or a morbidity register—any of which may be valuable in providing preventive care in the practice.

HEALTH EDUCATION COUNCIL. SCOTTISH HEALTH EDUCATION GROUP

Both the HEC and SHEG have similar functions as central co-ordinating bodies for health education activities. They publish leaflets and pamphlets, many of which are co-ordinated with national campaigns. Some are now specifically designed for general practice—for example, the Girc Up Smoking kit. The HEC also has a resources centre, which consists of a lending library and a collection of health education material including audiovisual aids and facilities for viewing. A bibliographic service is also available.

VOLUNTARY ORGANISATIONS

Many charitable bodies produce educational material for patients with chronic disease—for example, the British Diabetic Association and, the British Epilepsy Association produce excellent pamphiles. Epilepsy Association produce excellent pamphiles. Some charities also produce learliest and audiovisual aids that can be used when giving talks in the practice, in school, and in youth clubs, for instance. Many of these are of a general nature and not necessarily linked to specific disease. A comprehensive index of this material is published bianually, and a full list of charitable organisations concerned in health care is available from the Family Welfare Association.

Useful addresses

BMA BLAT Film Library BMA House Tavistock Square London WC1H 9JP Tel: 01-387-4499

Central Information Service Foundation

14 Princes Gate London SW7 1PU Tel: 01-581-3232

Family Planning Information Service St Andrew's House 27-35 Mortimer Street London W1N 7RJ Tel: 01-636-7866

Health Education Council 78 New Oxford Street (Resources Centre, 71-75 New Oxford Street) London WCIA 1AH Tel: 01-637-1881

Scottish Health Education Group Woodburn House Canaan Lane Edinburgh EH10 4SG Tel: 031-447-8044

Reference

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Practice Research

Drug treatment in elderly patients: GP audit

CEDRICK R MARTYS

The percentage of elderly people in the population is growing; more than 14°, are aged 65 years and over.' Half of these people may be on drug treatment.' It non survey of elderly inpatients' the average number of drugs prescribed was 3.3. Older patients are at greater insk than younger people from polypharmacy, drug interactions, and adverse effects of drugs.'* Most reported work, however, is based on studies and experience in hospital.' As a step towards identifying problems associated with drug treatment of elderly patients in the community 1 studied patients in my practice. I aimed at identifying and the proposed properties of the proposed properties are also associated with complex properties. The properties of the pr

Method

All patients over the age of 65 who were on drug treatment were identified from the age-ws, register and the prescription record and described from the age-ws, register and the prescription record and who is no long-term treatment. Each of these patients was interviewed over six months, either during stitlendince at surgery or on a home visit, and questioned about his or her treatment. Symptoms complished of a the time of the interviewes were recorded on a disast stitlendince and the stitlending of the stitlendin

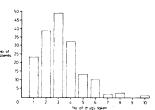
In a practice population of 3300 patients 538 (16",...) were over the age of 65 years at the start of the survey, and 167 patients (31",...) had been taking at least one drug for more than a month (table 1). The average number of drugs taken was 32, but 61 patients (36",... of those

Darley Dale, Derbyshire DE4 2HJ CEDRICK R MARTYS, MD, MRCGP, general practitioner

on treatment) were taking four or more (figure). Of the 167 patients on drug treatment, 137 (80°) thought that they were taking their drugs of the control of the control of the control of the control of the case of the cas

TABLE 1-Patients over 65 years of age on drug treatment

	No patients over 65 years of age	one or more drugs
Men	218	70 (32)
Women	320	97 (30)
Total	538	167 (31)



Symptom sign	No of patients (total 61)	Drug treatment	No or patient
Dyspepsia flatulence	11	Prednisolone	5
		Indomethacin	1
		Naproxen	2
		Ibuprofen	
		EC aspirin	1
		Destroproposyphene	1
Dry mouth	20	Bendroffunzide	10
		Frusemide	6
		Bumetanide	
Constipation	2	Bendroffunzide	1
		Paramol 118	
Dizzyness fainting	10	Propranolol	4
		Bethanidine	2
		Methyldopa	3
		Paramol 118	
Tremot	7	Bendroffuazide	2
		Salbutamol	3
		Chlordiazepoxide	2
Headache	4	Glyceryl trinittate	2 2
		Propranolol	2
Paraesthesiae		Salbutamol	1
Drowsings	2	Diagram	2
Confusion	2	Destroproposyphene	- 1
		Sodium amytal	1
Depression	2	Dextropropoxyphene	- 1
		Diagepam	1

TABLE 111-Diuretic treatment and serum potassium concentrations in 84 patients

Diuretic	Normal K	Low K : (+ 3.5 mmol(mEq. 1)		
		Diuretic - K	Diurens alone	Not on diuretic
Bendroffuazide Frusemide Other	23 25 14	12 1 0	* i	=
Total No :	62 (74	13:15:	9 (11)	3 (-)

been caused by increased occult blood loss from the bowel as a result of drug treatment. There was evidence of impaired renal function in ol patients (80°) with raised blood urea concentrations, and 55 (30°), had impaired creatinine clearance. Many of these patients were taking disjount, diurettes, slow-release potassums, and analgesies, all of which are excreted by the kinder, and thus were at greater risk from drug toxicity owing to abnormally high blood concentrations because of impaired renal exerction of these drugs.

Fourteen per cent of the British population are now aged over 65 and account for 33°, of national expenditure on drugs. 1° Some prescribing for elderly people may be unnecessary, ineffective, or inappropriate, 1° and they are particularly at risk from both adverse effects of drugs and polypharmacy, 10° My survey identified many prescribing problems and suspected adverse effects.

survey identified many prescribing problems and suspected adverse effects. Drug-induced symptoms—Thirty-six per cent of patients were "certainly" or "probably"" suffering from symptoms that were drug-induced. This is higher than the 15°, reported for suspected intergenic disease in elderly patients in hospital, "but suspected intergenic disease in elderly patients in hospital," but Although most drug-related symptoms were mild serious potential problems were identified, such as postural hypotension in patients taking diseasement altopic method to the patients and the state of the patients and the state of the

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Potassium—No life-threatening adverse effects owing to abnormal potassium concentrations in patients taking discretise were detected. These are rare even among hospital inputents, were also as the properties of the patients of the cause. Hypochalaemia was detected in 26% of patients in the survey, but it is doubtful if this needs to be corrected unless the serum concentration falls below 30 mmo/melhyLP. Potassium supplements were of little benefit to patients taking discretis. Although severe hypochalaemia (30 mmo/melhyLP) and potentiate digoxin toxicity it is unlikely that mild hypochalaemia is insued in all elderly patients who take thanked discretics, such as frusemide, and have good renal function continue to take potassium replacement treatment white a function continue to take potassium replacement treatment builting digoxin that discretise and also in those who have evidence of impaired renal function. But patients who take the more potent loop discretic, such as frusemide, and have good renal function continue to take potassium replacement treatment builting digoxin that clinically and the properties of the patients while discretise that the properties of the patients while discretise the patients while the patients while of the patients while of the patients while of the patients while the patients whi

Conclusions

In a semirural practice every patient over the age of 65 years who had been receiving treatment with at least one drug for more

than one month was interviewed by the practice drug monitor, a State-registered nurse. She had been trained to evaluate problems associated with drug treatment and to identify drug-related morbidity occurring in elderly patients on long-term treatment. Of 167 patients so identified, 36", were thought to be suffering from unwanted effects of drugs at the time of the interview. When appropriate, measures were taken to reduce the incidence of introgenic disease in such patients.

I thank Hilda Mellor for her help as drug monitor in the survey, and Ann Morton for typing this article. I am grateful to my wife Shirley for help with profresding and artwork, and to the staff of Chesterfield Hospital laboratories for the analysis of haematological and bio-chemical samples.

- Ketereaces
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(Accepted 1 October 1982)

Research in General Practice

A nurse's experience in the MRC's hypertension trial

GRETA BARNES

My introduction to general practice research coincided with the pilot study of the Medical Research Council's trial for mild hypertension' nine years ago, before any participants had been recruited. Over half a million people have now been screened, trial recruitment is complete, and 176 group practices have provided 16 415 (95%). Of the 17 362' trial participants.

Why I started

Initially, doctors were going to carry out the research, with perhaps a little help from a practice nurse or secretary. Detailed trial methods were left to individual centres but had to include screening, a medical examination including electrocardiogram, blood and urine tests, randomistation to active or placebo treatment, and follow-up visits every two weeks for three months, three monthly for the rest of the first year, and at least six monthly thereafter for five years, with full medical examinations years;

ons yearly.

Doctors in a group practice from Stratford-upon-Avon who
ere interested in taking part were somewhat perturbed at the

extra work load that the trial would entail for an already busy practice unless they employed someone specifically for the trial. I was saked at a social occasion by a friend who was one of the GPs whether I was prepared to be involved. My interest was aroused because I would be given, or rather I was expected to have, total responsibility for the planning and organisation of the study in the practice. In return for this I could plan my hours to fit around the needs of my three young children. Also, atthough all the partners had agreed to participate in the study, and the partners had agreed to participate in the study, but the partners had agreed to participate in the study, but the partners had agreed to participate in the study, but the trial to the partners had agreed to participate in the study, but the two the whole concept of research and its potential in general practice that appealed to me,

For every step forward I seemed to take two back, but eventually a screening programme was set up in the practice and over 15 months all patients aged between 53 and 64 were invited to be screened. Those who fulfilled the trial criteria were given a medical examination by the doctor and were entered into the trial.

into the trial.

During the expansion of the pilot trial, Dr W E Miall, the trial co-ordinator at Northwick Park Hospital, asked me if I would develop and teach screening, trial organisation, and research methods to clinics new to the trial. By this time I was

aware that our screening programme had been far too slow for research purposes and that if the main trial was sanctioned a much quicker and more efficient screening method was needed. I began to realise the importance of standardising all trial procedures as the care of the control of the c

What I found

I found that most practices were unable to carry out a fast screening programme owing to lack of space, and mobile screening programme owing to lack of space, and mobile the space of the

particular designation of the control of the contro

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untapped pool of motivated practices who, when provided with adequate help, finance, and facilities, enjoyed and successfully contributed to a multicentre trial.

Problems I experienced

Problems I experienced

Maintaining motivation and standardisation is probably the liggest problem of any large trial of long duration. Good clinics seem to cope well, but less good ones often require more frequent vitis from the training nurse. I have found it necessary to be aware wherever possible of internal problems in clinics and to be available to give encouragement and advice. Annual conferences for all the participating clinics at which trial progress reports are given and scientific issues presented and discussed have proved stimulating and have done much to maintain enthussam in the clinic inig. programme for half a million people has not been without its problems. The programme had to be tight, fast, efficient, and as economical as possible, and, apart from disorganised clinics, which was rare, the biggest problem initially was ensuring that the sphygmomanometers were always accurate and in good working order. The doctors as well as the nurses needed to be standardised in blood pressure measurement, and for all trial purposes a Hawkely. Random Zero sphygmomanometri- was used to remove observer bias. Phase V had been chosen as the dissortic end-point, which was fortunate as it made agreement less in the properties of the cleaning stethoscopes were used for this purpose. It was noticeable that the less enthussistic doctors were least keen on being standardised by a nurse, and a combination of tate, charm, and toughness was required by the training nurse.

Over the first few years there were occasional periods of

tion of tact, charm, and toughness was required by the training nurse.

Over the first few years there were occasional periods of underwork as a result of the delay in the authorisation of funds for the main trial, followed by periods of excessive work once the trial was sanctioned. The doctors and reception staff at the Stratford practice have been very tolerant of my work in piloting sub-studies and new projects. Unfortunately—but understandably—much of the effort has been to no avail.

I have found it a little furnarising that there is no accertance of the control of

The conclusions I was able to draw

The conclusions I was able to draw
Given the right conditions, general practice can undoubtedly
be an extremely rewarding and successful area in which to carry
out clinical research and need not necessarily overload the
doctor. A research nurse can be successfully integrated into the
practice team and be given responsibility for the organisation and
running of a project or projects, provided at least one of the
GPs is interested and motivated and is prepared to give her
support and advice. Equally important is the necessity to
establish that the other partners consider the project worth while
and ethically justifiable, even though their involvement need be
minimal.

minimal.

It is probable that adhering to a trial protocol comes more easily to a nurse than a doctor, as a nurse is trained to follow directions and a doctor to issue them. It is worth noting that by keeping strictly to a structured drug schedule nurses, under medical supervision, are well able to tirrate drug dosages to achieve good control of blood pressure for patients randomised to active treatment.

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The patients seem to enjoy their participation in the MRC trial and the extra care they receive. Most of them identify the research programme with their own practice rather than with the MRC, and their sense of loyalty might explain the high level of compliance found in the trial clinics.

Lessona I kernt

Probably the most important lesson I learnt was to be objective and critical of my own trial methods so others could benefit and learn from my mitakes and experience. I also had to appreciate that all doctors were different and what would please one would not necessarily please another. Although overall standardisation was required it was sometimes difficult for some of the doctors and nurses to accept and achieve this.

About 1200 nurses worked in the screening was in progress I compiled a register of those nurses who were good and wished to be considered for future research programmes. This turned out to be verty valuable, not only for the hypertension screening programme, at what also for an MRC national survey based at Bristol University.

The MRC trial is the largest therapeutic trial ever to be mounted in Britain but undoubtedly in the future other working parties will contemplate further large scale projects. Establishing a widely representative working party is essential, but perhaps of greater importance is the necessity to convey to all the participating clinics that the success of the trial depends on the opinion of view of the MRC trial of course it would have been easier to mount the trial knowing what we know now, and others

contemplating similar co-operative projects would do well to contact groups nationally and internationally with the right experience.

Present opportunities for research

Present opportunities for research
A large-scale framework for research in general practice has
been provided by the MRC trial, and in the view of many should
not be dispersed when the trial has been completed. The
feasibility of other projects is now being assessed and piloted
within that structure with a view to providing answers to other
important questions. Many nurses have shown that they have an
aptitude for carrying out research procedures, and though it
promising fields for medical research the experience of the
MRC hypertension trial suggests that there is a definite place
for the research-minded nurse in general practice.

I am grateful to Dr W E Miall for his helpful advice and to Mrs J Cater for her support. My thanks are also due to the trial field-workers and the co-ordinating team at Northwick Park Hospital, and particularly to Dr M H F Coigley and his partners and staff at Bridge House Medical Centre, Stratford-upon-Avon.

- Nedicial Research Council Working Party on mild to moderate hyper-tension Randomised controlled trial of treatment for mild hypertension: the properties of the properties of the properties of the Nedicial Research Council's Mail WE, Growner G, Breman PJ. The Medical Research Council's treatment trial for hypertension. Curr Med Res Opin (in press). Blames GR. The nurse's contribution to the Medical Research Council's real for mild hypertension. Nature Trant 1981, 77:1280-5. Lancet 1983-1970. One of observarion in bodg pressure measurement. Lancet 1983-1970. One of observarion in bodg pressure measurement. Jancet 1983-1970.

Plus Ça Change . . .

Graves Medical Audiovisual Library: 1957-82

VALERIE GRAVES

In the BMJ of 10 July 1982 Dr G B Taylor' wrote about discussion groups. Twenty-five years ago my husband John and I were helping general prictitioners to teach one another in groups. 1957 was the year in which Harold Macmillan became prime minister, and a little dog called Laika circled the earth in Sputnik. TV licences had gone up to £4 and prescription charges to one shilling. There were polio epidemics and angry questions in Parliament about vaccine shortages. Smallpox broke out in Tottenham, and teanus immunisation was not yet routine. Syringes were made of glass, but plantic tubing was coming in four infusions. New drugs included systamic, nobstumined,

Writtle, Cheimsford, Essex CM2 9BJ VALERIE GRAVES, OBE, FRCGP, honorary director, and general practitioner

paracetamol, and synthetic pericillin V. Chlorthiazide was beginning to replace mercurials, but the new manquillaters, such as meprobamanet, were regarded with suspicion. Prednisolone became available for general practitioners' use.

General practitioners' let the need to prove themselves. They were very unhappy, not only about money (arguments about low pay nearly resulted in mass resignation) but also about low status (dropouts from the consultant ladder). Refresher ocurses were few and hospital-oriented. We were among the enthuisatis who had started the College of General Practitioners in 1952. John was a principal in a sentimizat practice; ji jond him later, John was a principal in a sentimization provided provided to the control of the provided provided to the provided provided to the provided provided provided to the provided provi

couraged to start some kind of do-it-younself courses. We decided to record good speakers on tape and send tapes round to volunteers picked from the replies to the questionnaire. Some of our speakers were general practitioners, some specialists. Some of the topics seem naive today, but they were burning issues then. The response astonshed us, We must have picked a crucial moment when general practice consciousness was waiting to express itself, for within five years 450 groups. In the contract of the cont

Developing a library

Developing a library

The scheme which we called the Medical Recording Service might well have faded away with its discussion groups, but to our surprise it did not. By the mid 'sixties it was developing into a lending library. It continued to grow from a part-time hobby to a cottage industry. It spread from room to room of our house, to a prefabricated building in the garden, and then to its own spread to hospital doctors, to nurses, students, remedial therapists, social workers, first-aiders, and people in many different types of training courses. From the beginning doctors overseas wanted to use our tapes. By the mid 'seventies we were sending out on loan or for sale roughly 20 000 tapes a year; about a fifth of these went overseas, specially to new medical schools in the developing world. Correspondence and visitors from all life of a rural general practitioner, in which capacity we both still carned our living.

What was the appeal of tape-slide teaching ?—for it is still popular in spite of the encroaching videocassette. Probably its simplicity and cheapness, using only what we called "High Street technology"—that is, playback equipment that everyone has at home. Video recorders are High Street technology only as a many one day take over many educational functions. A

BRITISH MEDICAL JOURNAL VOLUME 285 4 DECEMBER 1982

BRITISH MEDICAL JOURNAL VOLUME 285 4 PECAMERE 1982 good teacher on tape-slide can make difficult concepts more real and easy to understand.

We had a for of fun in our time, meeting hundreds of celebrities and getting lost in countiess medical schools and institutes. We will be considered to the control of the control o

Independent charity

Independent charity
It stopped being fun when John died of cancer in 1980 at the
early age of 57. But the work has gone on. In 1977 the service
became an independent charity, Graves Medical Audiovisual
Library. As well as making tapes of our own commissioned
material we make tapes for the Royal Colleges of Surgeons and
of Physicians, for or, anisations such as the British Orthopsedic
Association and the Association of Clinical Pathologists, and
distribute programmes made in many medical schools. We
provide funds to assist new productions and research.
In 1997 people thought we were a little mad; but imitation is
flattery and nowadays we have many commercial competitors.
We are proud to have been concerned in our small way in
broadcasting the best of British teaching for 25 years, and we
hope to continue for many more.

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(Accepted 15 October 1982)

SHOULD A DRUGGIST PRESCRIPE? Now the question is, what restrictions should be affixed to the business of a druggist. Some of our members say, "the should not be allowed to practise at all, not even give a dose of medicine"; and looking only to their own interest are very anxious upon this point. But it appears to me, that it is deriver from the druggists. I shall take the liberty of stating a thing their business of the state of t

0 guest. Protected by copyright