BRITISH MEDICAL IOURNAL VOLUME 285 4 DECEMBER 1982

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
 Department of Health and Social Security. A happier old uge. London: HMSO, 1978.
 Shaw SM, Opit LJ. Need for supervision in the elderly receiving long-term prescribed medication. Br Med J 1981;3505.7.
 1975. A. Security of the supervision of elderly patients. Br Med J 1981;282: 1072.
 Gibson JJM, O'Hare MM. Prescription of drugs for old people at home. General Clin 1984;10:271-09.
 Hurwitt N. Intensive hospital monitoring of adverse reactions to drugs. Br Med J 1987;351-16.

- *Horwitt N. Predisposing factors in adverse reactions to drugs. B. Med J 1909;1:336-9.

 Knos [DE: Prescribing for the elderly in general practice. J R Coll Gor Boston Collaborative Drug Surveillance Programme. Pharmaconizad Breeblad 1974;109:401-81.

 Marry CE. Adverse reactions to drugs in general practice. Br Med J 1979; Marry CE. Adverse reactions to drugs in general practice. Br Med J 1979; 19 June 1979; 197

(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

BRITISH MEDICAL JOURNAL VOLUME 285 4 DECEMBER 1982

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 clinics and the properties of the chaining standardised by a nurse, and a combination of tast, 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.

BRITISH MEDICAL JOURNAL VOLUME 285 4 DECEMBER 1982

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.

Taylor GB. Northumberland Young Practitioner Group. Br. Med J 1982; 285:103-4.
 Graves V. Stimulation of new disciplines in general practice by uper-recorded talks. Br. Med J 1901;1:1024-6.

(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