

Practising Prevention

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 AUTHORITY SERVICES Health authorities are concerned to ensure that there is an adequate level of preventive cars in their areas, but an effective overall strategy in an area demands close co-operation between the community services provided by the authority and generall practitioners. Health authorities ofted by the authority and generall practitioners. Health authorities ofted by the authority and generall practitioners. Health authorities ofted by the authority and generally premember care for certain groups of patients and may, for amany planning clinics, and cervical cynomum clinics clinical previces 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, unnecessary duplication of effort. Many community medicine specialists are in the practice, since it is often more logical for activities uses has immunisation, authorities will be able to provide prac-tivities uses has immunisation, antentaul care, family planning, and cervical cytology to be provided by the practitioner. Community medicine specialist will be able to provide prac-titioners with advice about local epidemiology but also can often

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PATIENT GROUPS

ATTENT GROUPS The practices have now set up patient participation groups, which can supply a valuable framework for a preventive comparing the group itself may help to run the campaign and organise meetings of patients. Its some areas Community Health Councils have become interested in preventive care and run o-ordinated local campaigns. Some CHGA have taken a particular interest in tertury prevention (managing established disease) by executing out and publicing facilities to patients with helpful. Mother and haby groups are often attended by the health vision who way ba able to influence the health beliefs of the groups of the prevention of the source of the source of the group may have a more general effect by disseminating. Mithough there has been a listory of difficult relationshipse ion doubt that many self-heig prups, such as branches of the preventive care in the community. Mithough there has been a bistory of difficult relationshipse ion doubt that many self-heig prups, such as branches of the preventive care in the community. Mithough the previsioner in boken day a strankes of the preventive care in the community. Mithough the prevention and the conduction of the transport preventive care in the community. Association, Atcholic's Anonymous, or weight control groups, and be invaluable for many patients and can supplement the divers of the previsioner in boh econdary (carly detection of disease) and tertiary prevention.

LOCAL AUTHORITY

LOCAL ARTINORITY The local autohesiy must also be seen as an important resource. The doubtion department is responsible for health culturation in schools and may welcome advice from local health wistors or doctors. Adult education programmes always include keep fit classes of various kinds. Patternis 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 help pople to learn something about nutrition. Recently some local suborities have started to run classes that are based on the varies. Social services departments are responsible for running day corection. Social services departments are responsible for running day corecipational therapits—both of importance in treatray preven-tion. They also have details of local self-help groups.

LOCM MPTIA 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 das." Although given in radio chair programmes they do respond to the general non of the programme. Producers always like doctors to discuss the latest headline-catching miracle cure, but most radio doctors manage to temper their produces' enthusiam and include regular preventive advice in their programmes.

National agencies

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, prac-titioners may obtain advice about setting up an age/sex register,

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

preventive programme, such as a successing programme cri-bypertension. 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 immunistion 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.

HEALTH EDUCATION OFFICER

MALTH EDUCATION OFFICER Varially 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 area or district and for providing advice and resources. Many HEOs have a background in nursing or health visiting and some in education. About a third of all HEOs have undertaken further training and hold the diploma in health education. Most are likely to hold this diploma in the future. The HEO can provide a most important invirties for prec-tions of the strain of the strain the strain the strain the strain local health education plans and about new initiatives, but he will always be willing to provide direct advice to practitioners. He holds stocks of health education material, ranging from displays and posters to films and iffin straps suitable for different audiences. Most health education units stock the full range of pitchab Education Group and often many nothers as well, including material produced locally. Some units have the services of a graphic artist or audiovisual technician and will lend slide or film projectors.

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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 leaftest and pamphlets, many of which are co-ordinated with national campaigns. Some are now specifically designed for general practice—for example, the Give 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

VOLUNTARY ORANISATIONS May charinable bodies produce educational material for patients with chronic disease—for example, the British Diabetic Association and .the British Epilepy Association produce excellent pamphiets. Some charities also produce leaflets 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 biannually, and a full its or 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 78J Tel: 01-636-7866

Family Welfare Association (publishes *Charities Digest*) 501-503 Kingsland Road Dalston

Dalston London E8 4AV Tel: 01-254-6251 Health Education Council 78 New Oxford Street (Resources Centre, 71-75 New Oxford Street) London WC1A 1AH Tel: 01-037-1881

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 clderly people in the population is growing; more than 14", are aged 65 years and over.' Half of these people may be on drug treatment.' In one survey of clderly inpatients' the average number of drugs preseribed was 3.3. Older patients are at greater risk than younger people from poly-pharmacy, drug interactions, and adverse effects of drugs.' Most reported work, however, is based on studies and ex-perience in hospital.' As a step towards identifying problems associated with drug treatment of clderly patients in the com-munity 1 studied patients in my prectice. I aimed at identifying no long-term drug treatment (ong-term being defined as treat-ment of more than one month's duration), and to review each patient's treatment regimen for potential drug interactions and adverse effects and to correct this when required.

Method

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Results

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

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TABLE 11-Symptoms and signs that were potentially drug-relate No of patients (total 61) Drug treatment Dyspepsia flatuleno Prednisolone Indomethacin Naprosen Ibuprofen EC aspirin Destropropoxyj Bendroffuazide Frusemide Dry mouth 20 Frusemide Bumctanide Bendrothuazide Propranolol Berhandine Berhandine Paramol 118 Paramol 118 Bendrofhuazide Salbutamol Chlordiazeposade Glycervi rimitate Chlordiazeposade Glycervi rimitate Destropropoxyph Destropropoxyph Destropropoxyph Destropropoxyph Destropropoxyph Constipation Dizzyness fainting Tremot Headache Paraesthesia Drowsiness Confusion Depression

1ABLE 111-Diuretic treatment and serum potassium concentrations in 84 patients

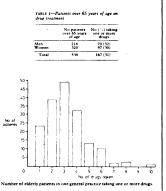
Diametric	Normal K	Low K: (+ 3.5 mmol(mEq.1)		
		Diurctic - K	Diuretic alone	Not on diureti
Bendroffuazide	23	12		
Frusemide	25	1	1	
Other	14	0	0	
Tetal No in	62 : 74	13:15:	9.11	3/>

been caused by increased occult blood loss from the bowel as a result of drug treatment. Three was evidence of impaired renal function in 61 patients ($b^{(n_1)}$) with raised blood urea concentrations, and 55 ($W^{(n_2)}$) had impaired creatinic clearance. Many of these patients were taking discost, diurctics, slow-release potassum, and analgesies, all of which are excreted by the kidney, and thus were at greater risk from drug toxisty owing to abnormally high blood concentrations because of impaired end section of these drugs.

Fourteen per cent of the British population are now aged over 65 and account for 37., of national expenditure on drugs.¹⁹ Some prescribing for eldely people may be unnecessary, ineffective, or inappropriate,¹¹ and they are particularly at risk from both adverse effects of drugs and polypharmacy.¹⁰ My survey identified many prescribing problems and supcreted adverse effects.

survey identified many prescribing problems and suspected adverse effects. Drug-induced symptoms—Thity-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 airrogenic divease in diedrip patients in hospital, but Although most drug-related symptoms were mild serious poten-inal problems system in patients taking diazema and detector proposyphene. The last two drugs were discontinued and the side effects diapneted. Histories to no postre due to anthlyper-tensive drugs were identified, so no postre due to anthlyper-tensive drugs were alteristic so no postre due to anthlyper-tensive drugs were alteristical by either changing the treatment were taking potent anti-inflammatory drugs were changed to drugs less likely to cause gastrointestical side effects. In some patients it was necessary to continue treatment with predision on the they were given enteric-coated preparations, and oral anti-inflammatry drugs were discontinued in those who had to take predisionle long term.

on itratinent) were taking four or more (figure). Of the 167 patients on itratinent), were taking four or more (figure). Of the 167 patients or preserved. This is 700° to the the theory containing the molecule of the remaining of the transmission of the transmission of the second transmission of the transmission of the transmission of compliance, but the patients with side effects usually had only a bary Staty-one patients (Mer.) were thought to have a possible drug-related symptom or sign, including dyspepsia, dizzness, confusion, remore, and parasethasis (able 11). Eighty-four CPU, were taking a durretic (table 111), and 07 (80°.) of these were also taking a slow a durretic table 110, and 07 (80°.) of these were also taking a slow of diarctic had a science ratio mocessful the to be 35 monto (mbg) (the lower lums of the normal range of the local laboratory, only one patient and a concentration C2 T moll(Figure) that was con-tention to consistent on the term of the simulation of within four hours of collections. A dispersion of the laboratory of theorem of collections. A dispersion for and als hours of disposite that was above the normal fragreguic range of 08-20 og 1, and there were below. Sin patients on ord controlection of an inflammatory drugs had mild iron deficiency ansemia, which may have



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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

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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 16 patients so identified, 3%, were thought to be suffering from unwanted effects of drugs at the time of the inter-view. When appropriate, measures were taken to reduce the incidence of istrogenic 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 proforeading and artwork, and to the staff of Chesterfield Hospital laboratories for the analysis of haematological and bio-chemical samples.

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Research in General Practice

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

GRETA BARNES

My introduction to general practice research councided 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 17 562 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 contres but had to include screening, a medical examination including electrocardiogram, blood and urine tests, randomisation to active or placeto treatment, and follow-up visits every two weeks for three monthy, three monthly for the rest of the first year, and at least is monthly thereafter for five years, with full medical examina-tion born is a seruen spacific from Straffording to monthly one of the Dortrom is a seruen spacific from Straffording to monthly the seruent of the seruen spacific from Straffording to monthly the seruent seruent monthly the seruent spacific from Straffording to monthly the seruent seruent monthly the seruent spacific from Straffording to monthly the seruent monthly the seruent spacific from Straffording to monthly the seruent seruent

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

Claverdon, Warwickshire CV35 8PW GRETA BARNES, SRN

extra work load that the trial would entail for an already busy practice unless they employed someone specifically for the trial. I was asked 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, and one of them was therein to each busy the trial plan. Also, the or of the my base how no each busy the planning and poper. In recollect, though, that it was the whole concept of research and its potential in general practice that appealed to me. What I did

(Accepted 1 October 1982)

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 35 and 64 were invited to be screened. Those who fulfilled the trial criteria were given a medical examination by the doctor and were entered given a med into the trial

into the trail. 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

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What I found

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 facilities were assessed and found to be an efficient method of screening. The trial nurse at each clinic was the leader of the tream of locally recruited screening nurses, and a practice with 10 000 patients could screen their defined popu-tation in 28 days. It was thought appropriate that 1 should co-ordinate the screening programme, and this was carried out from an office at my home. My responsibilities included scheduling six mobile units, publicity for the screening pro-gramme, overseing the training of screening nurses, and any screening data, and providing screening rubes, and are tooking took place.

processing the set of the set

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 1 experienced The second se

tion of text, charm, and toughness was required by the training nurse. Determ 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 ploting sub-vulles and new projects. Unformately—but-understandably—much of the effort has been to no avail. The strategies of the strategies of the strategies of the "one off" job. I am no longer a nurse in the usual sense, but I am not MRC scientific staff either. An unexpected problem has been the necessity to develop confidence in public speaking at symposiums and scientific meetings. I have also had to learn to public point of view of the research nurses and trial clinics to follow members of the MRC trial working party, which some-times has not been the cassist of tasks.

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 necessripti 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 moting that by keeping strictly to a structured drug schedule nurses, under medical supervision, are well able to titrate drug dosages to achieve good control of blood pressure for patients randomised to active tranement.

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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.

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Lessons I learnt 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 mixtaks and experience. I also had to appreciate that all doctors were different and what would please one would not necessarily please another. Albough overall standardistion 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 1 compiled a register of those nurses who were good and wished to be considered for future research programmes. This turned out to be very valuable, not only for the hypertension screening programme, but also for an MRC national survey based at Bristol University.

Advice for others undertaking such research

Advice for others undertaking such research The MRC trial is the largest therapeutic trial ever to be mounted in Britain but undoubtedly in the future other working parties will concemplate further large scale projects. Establishing a widely representative working party is essential, but perhaps of greater importance is in the cessity to convey to all the par-ticipating clinics that the success of the trial depends on the point of view of the MRC trial of course it would have been easier to mount the trial knowing what we know now, and others to be the succession of the s

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

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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 movers to other important questions. Many nurse have shown that they have an applied by the providing the structure of the structure of the promising fields for medical research the experience of the MRC hyperemision trial suggests that there is a definite pace for the research-minded nurse in general practice. 70%

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 Northwich Park thospital, and particu-larly to Dr M H F Coigley and his partners and staff at Bridge House Medical Centre, Strateford-upon-Avon.

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Plus Ca 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-fore, years ago my husband John and I were helping general pricitioners to teach one another in groups. 1957 was the year in which Harold Macmillan became prime minister, and a litted dog called Laika circled the earth in Sputnik. TV licences had gone up to f 4 and prescription charges to one shilling. There were policy epidemics and angry questions in Parliament about vaccine shortages. Smallpox broke out in Totenzham, and teamas immunisation was not yet routine. Syntage user made of glass, but plantic tubing was toomag in for indisions. New drogs included systatin, sobutamide,

paracetamol, and synthetic penicillin V. Chlorthiszide was beginning to replace mercurials, but the new tranquillisers, such second available for general practitioners' use. General practitioners fielt the need to prove themsleves. They were very unhappy, not only about money (arguments about low yay nearly resulted in mass resignation) but also about low status (dropouts from the consultant ladder). Refresher courses were few and hospital-oriented. We were among the entituisats who had statted the College of General Practitioners in 1952. John was a principal in a seminural practice; Joing dhan later, Having been a preclinical lecturer, my knowledge of research methodology was useful to the infant college roles in handling data such as their 1955 measles survey and 1956 questionnaire about the needs of members. This showed such a deire for better learning facilities for general practitioners that we were en--on-4 December 1982

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

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Developing a library

Developing a library The scheme which we called the Medical Recording Service might well have fielded away with its discussion groups, but to our action of the source of the scheme scheme scheme scheme action is barry. It continued to grow from a part-time hobby to a or performation of the scheme scheme scheme scheme performation of the scheme scheme scheme scheme scheme hortparts in the scheme scheme scheme scheme scheme scheme barry scheme sche

BRITISH MEDICAL JOURNAL VOLUME 285 4 DECEMBER 1982

BRITISH MEDICAL JOURNAL VOLUME 28° 4 DECEMBER 1982 good teacher on tape-slide can make difficult concepts more real and easy to understand. We had a lot of furi in moniterin medical lacheols and institutes. We had a lot of furi in moniterin medical lacheols and institutes. We had a lot on all Blainter medical lacheols and institutes. We had a lot on all Blainter medical lacheols and institutes. The state of the state of the state of the state of the state we had a lot of the state of the state of the state of the periodic distribution of the Blainter medical scheols and institutes. The state of the problems with Arab banks. We had a lot of fun, too, recording annual clinical and medical addies in Fiji. Our visitor's book and stamp collection are a geographical Aladdin's cave.

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 Audiovitual 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, insistions such as the British Orthopsedic Association and the Association of Clinical Phthologists, 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 fattery 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.

I thank Mrs Jean Judd for typing this ma

¹ Taylor GB. Northumberland Young Practitioner Group. Br Med J 1982; 285:103-4.
 ¹ Graves JC, Graves V. Stimulation of new disciplines in general practice by tape-recorded talks. Br Med J 1961;11024-6.

(Accepted 15 October 1982)

should a DRUGGIST PRESENTE? Now the question is, what restrictions should be afficed to the business of a druggist. Some of our members asy, "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 sppers to me, that it is derive from the druggist. I shall take the liberty of rating a thing that happened to a fired of music, a gentleman, a Member of this House. Going home at night he finds himself unwell, goes into the shop of M Grindle, the druggist in Pall Mall, and any, "Mt Grindle, Mr Grindle, the druggist in to you, because you have not been prescribed for by a physician or strongen; and the Act of Parliament will not allow me to do it." My friend replice, "Have you not got the very prescription which Mr So-and-so gove me last week." Mr Grindle away: "I cannot give it to you, because you have not been prescribed for your e dos of physic—Grands may and the day and the short of the structure of the structure." Grands and structure of the short way. I must not go at 6 dos of physic—Grands and Stor Chrunter, PRCS. (Select Committee on Medical Education. Parliamentary Papers 1834.) guest. Protected by copyright.