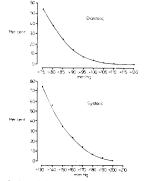
BRITISH MEDICAL JOURNAL. VOLUME 287 26 NOVEMBER 1983

Statistical analysis was done by standard parametric tests. Contingency tables were analysed by the 12 test with Yates's correction where appropriate.

We used the Vita-Stat blood pressure computer illicetramed, ferland Lid/16r initial screening, an automatic device that measures the systolic and place. V distorble personner in a patient in the seited was manned by a technician and was available five days a week between the hours of 10 am and 4 pm. The initial screening of the 391 patients who attended 555; ... of the practice population aged 30-65 years) took was weeks to complete (table).

	Age							
	50.54	35.39	46.44	45-49	50-54	55.59	60-65	Total No
Attenders								
Men	225	1.75	167	169	179	170	218	1326
Wemen	238	241	198	200	198	267	263	1605
Total	461	419	165	169	127	437	481	2931
Non-attenders								
Men	171	2.50	164	157	122	139	124	1327
Wemen	287	183	145	144	10.7	117	123	1109
Total	658	433	31.2	3:11	229	256	247	2436
Fotal No							-	
cligible	1121	872	677	670	0630	693	728	5 167



Prevalence of blood pressure abnormality in patients aged 30-65 years as measured by the Vira-Stat automatic blood pressure

shows the relation between the blood pressure and the frequency of its abnormality as measured on the Vita-Stat machine, and can be used to predict the workload required to set an arbitrary division at different levels of pressure. We had hoped to investigate further all individuals with a distoller pressure over 90 mm Hg, but such a commitment proved too great. Manageable numbers could be a commitment proved too great. Manageable numbers outd be a commitment of 90 mm Hg, but such a commitment of 100 mm Hg, but such a commitment proved too great. Manageable numbers could be a commodated only by recalling all those with a dastionle held of pressure of 90 mm Hg.

MANCH SCHENING

Two hundred and sevents eight patients (14) men. 13 somen. 9.5% of the overend population were resided for a manual blood pressure measurement. This was taken with the patient search using Hawkidey random zero sphygmomanometer and phase V distroller pressure measurement. This was taken with the patient search using a Hawkidey random zero sphygmomanometer and phase V distroller pressure was recorded. Comparative studies using a double headed sethoscope showed a coefficient of variation of 14% between the reading obtained patients. The other of the patients of the controller of the pressure was compared to the patients. The other of the patients of the controller of the patients of the compared to the patients of the patients

PATINIS WITH NAWLY INCOVERED INTERTINISON.

Fifty two new hypertensive purions were disconcered during this study, 48 of these after sospential manual readings and four after a single very high manual reading and a single high attornative reading. Retrispective examination of the practice records showed that during the previous I/o vans I7 had had an abnormal blood pressure noted general practitioner as some stage during the previous veer for unrelated problems but their blood pressure as not taken. Two had a normal blood pressure readed during the previous veer for unrelated problems but their blood pressure served as a normal blood pressure readed. The had a normal blood pressure recorded during the previous veer for unrelated problems essen at a thought in the previous vear. Clearly, some patients fell into two or more of these categories.

One vers after the screening procedure had been carried out the practice records were examined to see how the hypertensive patients received regularly. Their mean systole pressure was 15 mm Hg and their mean diastolic pressure was 92 mm Hg. Five were thought not to need medication but were off horing their blood pressure remeasurements recorded in their notes, and had never recorded recatment, had no further blood pressure measurements recorded in their notes, and had never committed their general practitioner about the importance of the screening procedure.

ANALYSIS OF THE NON-ATTENDERS

SMATSIA OF THE NON-ATTENENS

Of the 5.8% individuals mixeted to attend the initial screening, 2031 accepted and 24th declined. The male-fermide ratio was 6.8% in the attenders and 1.2% in the non-attenders, p. 0.0%. There was a uniform age distribution among the attenders, whereas there was a disproportionate number of young individuals among non-attenders; p. 0.0%!. Retruspective examination of the practice records showed that 12.5% of the attenders and 9% of the non-attenders had previously recognised hypertension p. (4.6%). If the pre-alence of newly discovered hispertension is assumed to be the same in both the attenders would be expected to have had mean discole pressures above 100 mm By defended the manual screening. 204 accepted and 7.4 declined. The mid-female ratio and the age distribution were similar among the attenders and non-attenders. The mean

BRITISH MEDICAL JOURNAL VOLUME 287 26 NOVEMBER 1983

SD systols pressure in the non-attenders 171–18 mm Hg was significantly higher than in the attenders be 17 mm Hg ρ = 0.85 similarly, the mean SD disastile pressure in the non-attenders 30° disastile resolution of the 180° mean 180° mean 1Discussion

The detection and treatment of uncoognised hypertension are important means of reducing cardiovascular morbidity and important means of the process of the production of the presence of the whole practice population and secondly, by routinely checking the blood pressure strength groups and secondly, by routinely checking the blood pressure strength groups and secondly, by routinely checking the blood pressure strength groups and all considerable and all considerable. The second in the problem is deceptive. The conomic and logistic difficulties encountered may be substantial and the decision to embrasion as a second of the problem is deceptive. The conomic and logistic difficulties encountered may be substantial and the decision to embras on a large scale strength group and dispatic difficulties encountered may be substantial and the decision to embras on a large scale strength group and dispatic difficulties encountered may be substantial and the decision to embras on a large scale strength group and dispatic difficulties encountered may be substantial and the decision to embras on a large scale strength group and dispatic difficulties encountered may be substantial and the decision to embras on a large scale scale and the scal

appointing. One year after the screening programme 42—of the patients with newly discovered hypertension had defaulted from follow up. The desire to know about their blood pressure did not seem to be maximal by an insight most the therapeutic implications of the desire to know about their blood pressure did not seem to be maximal by an insight most the therapeutic implications. The definition of hypertension used in this study mean diastolic pressure >100 mm Hg. would be widely regarded as a level at which treatment is indicated. It may be calculated that we detected less than half the patients attending the health centre with pressures above this level, indicating the relative inefficiency of screening in the community. The simple expedients of careful routine measurements at surgery visits would have discovered three quarters of our new hypertensive patients without the need for an elaborate screening programme. Furthermore, a cross-sectional study of this kind provide only an instantaneous analysis and would have to be repeated at intervals to detect the development of individuals whose diastolic pressure strong the study of the study provides only an instantaneous analysis and would have to be repeated at intervals to detect the development of individuals whose diastolic pressure from regular screening to detect these new hypertensive patients would be small.

Blood pressure screening discovers a great many patients which bendering hypertension, and there is a great dilemma about what to do with his group, Ideally all should be reviewed regularly but this could be an unacceptable burden to some practices. In our visials more than 1000 patients had systolic pressure measurements.

We conclude that automatic devices to measure blood pressure tearlies when the should pressure a screening and the better method of detections seem to be routine measurement of blood pressure as transpers visias.

We conclude that automatic devices to measure blood pressure to the light of evidence suggesting an exaggeration of sys

We thank the other practitioners working in the Prestwich Health Centre for their help and cooperation with this study. Dr R Brownan, DJ M Crane, Dr C Ogden, and Dr I Steff, Alow we are most grateful to Mr S Chapman and ICI Pharmaceureals for help with the organi-vation and computer analysis of the study.

- References

 **Westoon FK, Thomson SG, Barnes GR, Mail WE: Evaluation of the Visition FK. Thomson SG, Barnes GR, Mail WE: Evaluation of the Visition FK. Thomson FK. The Proposed (98), 117–16.

 **WHO ISH: Mult Hyperfermson Lausen Committee Trais of the meaning of the Proposed (198) of the Proposed (198). The Proposed Proposed (198) of the Proposed (198

BRITISH MEDICAL JOURNAL VOLUME 287 26 NOVEMBER 1983

No man is an island

Continuing Education

ALISTAIR D GRASSIE

What I do not know about continuing education in general practice causes me concern: if it has not already begun to it choose to do something about it. I am not sitting in a medical library or chewing over the finer points with interested colleagues. I am here alone, acutely aware of being a fully paid up member of a medical minority group. I have spent much of my life as a doctor constantly being vetted and measured by senior colleagues and I am now inding out the hard way how to be perhaps not: that the IBM should permit someone to ventilate their ignorances in its columns, but I hope you will see that there is a point to be made.

A doctor who takes on an isolated practice off the west coast of Scotland deserves everything that is coming to him in the way of educational deprivation. He cash insteal in a mould exercise of the control of the doctor as a general practioner. On Arran the latter remains haphazard and arbitrary and is left almost entirely to the individual.

My education

I can identify four main aspects where I am being reached by postgraduate education. Firstly, I am being educated by my patients. I think that in the old days this used to be called experience. The 25 year old lifedging still commands a comparable salary to his preretirement sensor partner. Semontry payments recognise experience and no more, and general practice has no system of ment awards. My ages-ex register is a way in which I am being educated by my patients. Similarly, any leedwarf for the control of the c

Inglewood, Shiskine, Isle of Arran ALISTAIR D GRASSIE, MR. 1903, general practitioner

The third and fourth aspects are personal contacts and medical audit. Surprisingly, there are wine slight difficulties in trying to separate these two. Personal contacts mean the usual lively social intercourse among doctors at clinical meetings, courses, and social gatherings. Medical audit, not not other hand, would presumably be the same game played on the home ground with some stealthy changes of the rules to include constructive criticism. The Future General Practitioner' identifies three component parts of audit, gathering information about that it offers, evaluation of this information; and, where appropriate, making new policies. The "evaluation of this information" is carried out either by the primary care team or by that team with some outside agency. Audit therefore attracts its enthusiants on the one hand and its sworn enemies on the other.

by that team with some outside agency. Audit therefore attracts reembussats on the one hand and its sworn enemes on the other.

Formal audit continues up visions of the grand visitation by appointed members of our peers to pry into our patient services. We are further charged with the fear that if it is not taken up by the profession some public arm of government will do it for us. An external audit would indeed be an attractive prospect for me. But who would do the auditing? In a low income practice like ment instance dictates rigidly every aspect into the property of the property o

Financing the NHS

Only a fellow traveller would appreciate the full implications of my clinical workload. It is a very lonely feeling being in sole charge of a serious clinical problem in a small general practitioner hospital on an island. The buck ends here, and no amount of helpful advice from mainfand colleagues over the telephone

will change that. Most doctors would be aghast to learn that my hospital work results in a net financial loss. On a low and fixed income and with increasing costs, this personal financial support to the National Health Service is becoming a burden which I will soon have to shed, causing considerable penalty tony patients and resulting in a much greater cost to the NHS.
Casualtes occurring in my practice area are dealt with by me, working from my surgery and local general practitioner given an v ray examination if necessary by me, and definitive treatment by me. Often I transport them back home. This arises because there is poor local transport and only one ambulance. It would be grossly individual me out from 20 miles away, embark the patient, Jollow the ambulance on my car, and, having dealt with the patient, allow the dividual make the contribution sixes the ambulance to mile of resulting the contribution sixes the advance of course, it must return to its base. The convenience to the patient is naturally the foremose consideration. As I am paid only on the "bed fund" system, I cannot even cover my travelling expenses because I carn an income only if the patient occupies a bed, It may not be quite so easily seen that if I were not consideration. The travelling superiors because I carn an income only if the patient occupies a bed, It may not be quite so easily seen that if I were not consideration the NHS in certar full time ambulance and driver. Carefully reasoned discussion with hospital administrative staff has so far failed to make them aware of these arithmetical progressors. Its probably time now to surrender the arguments and cut my lowes by pulling out of the general practitioner hospital.

What on earth has all this to do with postgraduate education?

Indicating losses by pulling out of the general practitioner aloophial.

What on earth has all this to do with postgraduate education? When on and not contact with colleagues on this island is at the local hospital. Financial considerations are compelling me to relinquish my hospital responsibilities and therefore further isolate me and my patients. The opportunity to discuss problems with my colleagues will be lost and the public coffers will be further depleted.

Having deviated somewhat cynically from the subject of audit, I must return to it once again. Surely all is not so gloomy; there must be a solution somewhere. As I see it, attendance at clinical meetings on the manifiand pill always be an occasional activity for the sland general practinioner, and I unicered activity for the sland general practinioner, and I uncered to the subject of the properties of the sland general practinioner, and I uncered to the sland general practinioner and the sland general pra

fair pickings, as the poor souls are on holiday to forget about medicine. Students find their was here regularly, and we willingly give them tree accommodation at our home. They taste the flavour of remote trural practice and gain an insight into the daily domestic disruption of a doctor? Silved in the task of producing a series of talks by switting "experts" and we are determined to make this work. This "expert" will have to set saide two days of his time in the winter for one evening's talk, and he may well be asked to bring with him any necessary audiovisual aids. I would like to go a step further and suggest some sort of linking with a mainfaid practice. This might be done with a teaching until or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and if it was an informal link or a university department, and it is a second to the original and the experiences gained mulled over afterwards by the whole primary care team. By anyone's definition this would be mutual medical audit. There is absolutely nothing original in this suggestion. Approaches were made about 10 years ago by my predecessor, but there were no takers. In fact, it was suggested that he might be pursuing an avenue for the prot-alke mine are really no problem and I have a regular and devoted helper. An exchange of pra

The future general practitioner: learning and teaching, London: BMA, 1972.

Diary of Urban Marks: 1880-1949

And so 1908 rolled on and 1909 dawned with debts hanging over my head to the tune of over £500 which was being paid off in driblets every month as the practice increased and the money came in. Very early after I started practice I started a club for the poorer members of the community who could not afford to pay the regulation to it is the patient set advice and medisione. Everything beyond these was extra. Allogother the club brought me in about £100 yearly, but the work of bookkeeping for it was tremendous. At this time I made out my own this and posted them every month. This took up two nights each month of defendal work in the surgery, but I had plenty of time on my hants. I adopted the idea of steffing out the account.

monthly from the very beginning and I have always found this method to pay well. People have no chance to forget they are owing. In chemic cases bills are sent just the same so that the individual has a chance to pay something on account. Later on, as the practice increased, I employed a lask just they thought all the cases and the case of the case of