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MICHAEL PRINGLE

General practitioners who carry out research are a distinct minority. Is this a necessary implication of the style and pressures of general practice, or does it just reflect the present stage of development of general practice as a specialty? Perhaps a more useful way to put the question is by asking why a busy general practitioner should bother to do research. What's in it for the researcher? In attempting to answer these questions it is worked to the stage of the sta

ledged to be a considerable asset for applicants for academic posts to have an MD. Certainly a portfolio of published research articles is essential. For this reason many general practitioner re-searchers tend to be treated with some suspicion by their peers, who suspect an ulterior motive.

CREASING THE CORE KNOWLEDGE OF GENERAL PRACTICE

INCHAINING THE CORE KNOWLENGE OF GENERAL PRACTICE

There is much satisfaction in feeling that you have contributed, however slightly, to the information hase that underpins your own work and hast of colleagues. Even if the ideas and facts put forward are later modified or rejected they may have stimulated others to explore an area that might have remained fallow. On a personal note, a two year project in which a full time research assistant participated was germinated by a short article reporting the results of a patient questionnant has method did reporting the results of a patient questionnant has method did reporting the results of a patient questionnant has method did reporting the results of a patient questionnant has method did reporting the results of a patient questionnant has method and patient of the results of patients and in the record straight."

It is only through questioning assumptions and a quest for factual rather than anecdotal information that we can improve planted academic credentials of general practice and improve planted and the patients of the

grammes of colleagues in public health (now community physicians). Though hospitals do piecemeal screening, it is general practitioners who are best placed to take responsibility for coordinating and implementing preventive care. By being in the coordinating and implementing preventive care. By being in the defined group of patients, general practitioners are uniquely placed to examine and report on these. But it is regretable that much of the research that is done in primary care emanates from university departments and community physician. It would be a mistake to give the impression that worthwhile research does not originate from general practice. In this journal recently there have been examples ranging from randomised research does not vigility to the prevention of the

CAREER STRUCTURE

In hospitals the traditional motivation in research has not been the desire to enhance the welfare of mankind through scientific knowledge but the more prosaic one—career enhancement. Many see the accumulation of references to published research as a necessary adjunct to ladder climbing, and many projects and articles are designed with this in mind. This is not necessarily a bad thing. Self advancement only reduces the value of the result if it causes less glamorous areas to be ignored, and the work to be superficial. These are possible outcomes with any research, however well intentioned. Some researchers in general practice may also be movinated by career enhancement. It is now acknowledged to the contract of the contract

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harsh judgment on current general practice that it is not usually regarded as helpful in partnership applications to dwell on an interest in research.

AS A SMALL GROUP ACTIVITY

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Small groups are becoming a familiar aspect of general practice. Hospitals have their formal lectures and their less formal journal clubs, research clubs, and, of course, ward rounds. This need for learning from the common experience has surfaced in general practice, too. Some regions have established research groups, notably in recent years Wessex, in which a quorum of general practice, too. Some regions have established research groups, notably in recent years Wessex, in which a quorum of general practice, too. Some regions have established research groups have a dual henefit in both supporting the research work and the researcher. Like Balling groups, close knit research groups may act as a support for a doctor as a professional every bit as much as a researcher and for some doctors this is the principal benefit.

PERSONAL PLEASURE

PERSONAL PLEASURE

No attempt to analyse why general practitioners do, and perhaps should do, research can be complete without considering personal pleasure, which I believe to be the most important motivation. It may, to be sure, have a strong masochistic element to it, especially when tables need to be drawn and articles written. But there is a considerable underniable pleasure to be gained from formulating an idea or theory and the single minded exploration until it is proved or disproved. The fun of the chase is neatly complemented by the admittedly egotistical thrill of seeing the results published, especially in a reputable yoursal, custom. But in my view anything that helps to widen the interests and outlook of a doctor and anything that can make the rotune of general practice more interesting (for those who require such extra stimulation) should be encouraged.

Conclusion

General practice has left its impoverished adolescence of the 1990s and its exuberant young adulthood of the 60s and 70s, and is now entering its maturity. It is only fair to expect that this should be accompanied by a greater responsibility towards sustaining and expanding the knowledge base of medicine. There are areas in which general practice is unique, and it behoves us to explore these. Research may broaden the professional horizons of doctors and their practices at the same time as it provides necessary data for the improvement of patient care. But all justifications for research are secondary to what many doctors overlook—behind the earnest venere research is an exercise in curiosity and may be great fun for those who are fortunate enough to have discovered it. It is this pleasure that truly justifies the hard work and midnight oil.

Most of us are sufficiently bound by human motives to look for more than such idealsm as the driving force behind research. There is a substantial benefit in self awareness and self education. Just doing the background reading, consuling many references acknowledged authorities is an experience. Most other researchers are only too pleased to discuss their ideas and current projects, and this may be stimulating far beyond the confines of research.

Furthermore, any exercise in self analysis, either through audit or through a more structured research project, must lead to greater understanding of both the process and the outcome of a ship who often provide the raw material that a researcher is estamining. It is interesting that "audit" has a tainted reputation but "research," which is after all often the same activity formalised into obsectivity, has maintained a good name. Perhaps it is because doctors feel that there is a moral climate developing that demands the former but no such obligation with the latter.

IN TRAINING AND TRACHING

Unlike my experience in the late 1980s, medical students—
certainly in the newer medical schools like Nottingham—do
projects throughout their course. These teach the principles
that apply to any research—formulate a hypothesis, write a
comprehension of the property of the property of the course of

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Practice Research

General practitioner attendance at emergencies notified to ambulance control

JAMES COX, T G CHAPMAN

For two years doctors from a small village went to the scene of emergency calls received by ambulance control. On 80% of the occasions when the doctor was called at the same time as the ambulance was dispatched the doctor arrived before the ambulance. There were 24 incidents, 16 of which were road traffic accidents. In two cases the doctor established a clear airway in an unconscious patient before the ambulance arrived. Two patients were trapped in their whicles and were given parenteral analgesics. Four patients required intravenous fluids.

fluids. The call out system provided first aid for patients before the ambulance arrived and medical assistance to the emergency services at serious accidents. Patients who did not require hospital attention could be examined and treated at the scene, making the ambulance available for other duties and reducing the number of patients taken to the hospital accident and emergency department.

Each year roughly 85 000 people are killed or seriously injured on Britain's roads. Despite the fact that most accidents occur in built up areas, in past years Cumbria has had a dispro-portionately high number of motor cycle accidents. In 1982, 35°, more rideos of two wheeled motor vehicles were killed or seriously injured than would have been expected per head of population. This study was stimulated by a local epidemic of motorcycle accidents whose sequellae included two young men with permanent brain damage, probably caused by prolonged.

with permanent oran unmage, processory season of processors amona.

Most people in Britain are not trained in first aid. In rural areas such as the Lake District ambulance services are limited by distance, markingly and additional that are difficult to distance, and the season of t

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practitioners (mostly members of the British Association for Immediate Care (BASICS)) is not unusual." * Some schemes have hundreds of calls each year. * In most schemes, however, the primary purpose is to provide additional medical skills rather than early care before the arrival of the emergency services.

Methods

Caldbeck (pepulation approximately 300) is in the northern fells of the Labe District. Three general practitioners (two full time, one for the case of th

available.

The additional equipment carried by the doctors was provided by public donation to the Penrith and District Accident and Emergency Scheme, which is a registered charity. Each car racio costs approximately cost of the extra medical kit carried by each doctor is approximately 215. The replacement cost of deesings, intravenous fluids, and airways used is minimal. It is funded either by the practice or by direct replacement by the hospital seasantly department of, for example, pagers each cost £31 50 plus VAT per quarter and are provided

by the practice. (They could now be regarded as standard general practice equipment.) There are no additional costs incurred by the ambulance service.

There were 24 incidents during the two year study (table), including 16 road traffic accidents, 26 patients were attended by a doctor. One patient was dead when the doctor arrived at the scene (incident 14), and two patients died later (in incident 6 from head injuries and a frectured thoractic spine with hemilegas and in incident 5 from a stroke). No patients died between the arrival of doctor or ambulance at the scene and their arrival at 1 hospital.



Of the 20 accasems when the doctor was notified of the incident at the tame time as the ambulance was dispatched, the doctor arrived before the ambulance to times (80°). Thus, in most cases the doctor carried out the initial assessment of the patients and provided first and. On two occasions the ambulance was recalled by radio before it been examined by the doctor the ambulance was able to leave the secre without patients and was available for other duties. The airways of two patients were kept open by a combination of positioning, suction, and oropharyngeal (Outed) airways. These patients were the corner to give first aid. No patients required in mubiation. Parenteral analgesiscs were given to two patients (both of whom were trapped in vehicles and did not have head or chest insuries). In most cases, however, oral Entones, which was carried in the ambulance, was while waiting for the ambulance.

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Discussion

Discussion

Despite the presence of an efficient local ambulance service, there is inevitable delay in an ambulance reaching the scene of an accident or medical emergency in a rural area. The national standard set for ambulance services in rural areas is that in 50 · of moderal the mergency in a rural area. The national standard set for ambulance services in rural areas is that in 50 · of moderal the moderaction of the standard set for ambulance services in rural areas is that in 50 · of moderal the moderaction of the standard set for ambulance services in rural areas is that in 50 · of moderal the moderaction of the standard set for ambulance services in rural areas is that in 50 · of moderal the moderaction of the standard is met in this district.

Fortunately, there are few emergencies when a seconds count, but there are occasions—for example when a patient is unconscious and in danger of aphyxiating—when immediated accar reduce the risk of brain damage or death. In this study the distriction of the standard in the standard can reduce the risk of brain damage or death. In this study the distriction of the standard can reduce the risk of brain damage or death. In this study the distriction of the standard can reduce the risk of brain damage or death. In this study the distriction of the standard can reduce the arrival of the ambulance, though even at a minor accident a decore can ressure the injunct person and bystanders and examine and advise some of those who might otherwise have to associate the arrival of the ambulance, though even at a minor accident a decore of patients being taken to hospital casually departments is reduced.

In a more serious accident where there has been considerable internal or external bleeding or a patient is trapped in a which the given by a doctor. Furthermore, a doctor is the only person legally able to certify the dead.

Our experience during the study was that the patients benefited from the doctor's attendance at moidents, particularly accidents. Greater contact with the eme

We thank Dr M I Cox, Dr A G Mackenzie, and Dr D E J Unwin and the ambulance crews and controllers of Cumbria Ambulance Service.

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