389

Acute pharyngitis: a symptom scorecard and microbiological diagnosis

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Upper respiratory tract infections are the commonest reasons for patients to consult their general practitioners, annually accounting for 220 consultations per 1000 patients, of which 400 patients with the patients of the patients and to assist of the patients and non-streptococal indecion remains poor, 'however, and thus treatment with antibiotics is both variable and empirical. The bacteriological investigation of acute pharyngitis in general practice is not always done.' Reasons for this are the geographical separation of the practice from the diagnostic laboratory, the necessary delay in obtaining a result early enough to influence the clinical management of the patient, and the repeat consultation that is necessary to start treatment. If bacteriological amplies were processed in general practice these the patients of the patients

The study was conducted by two trainees in general practice over four months in two general practices during their attachment. One

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streptococci containing 5%, horse serum, 0.0002% crystal violet, nationized all Olm gril, and oilstin subplants 5.00° united in 45° and read and the subplants of the supplies were obtained weekly from the hospital laboratory and refrigerance at 4°°C. The cujument was placed and samples processed in an area separate from where patients were seen and a "laboratory" code of practice observed. The top of the incubator was decided to the company of the comp

BRITISH MEDICAL JOURNAL VOLUME 284 6 FEBRUARY 1982

Organising a Practice

Giving the best to a trainee

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"What is the structure of the practice and how is it organised."
These are two of the routine questions to be asked when appointing a trainer for a vocational training scheme in general practice. The trainer may then be seen in the context of the setting in which the training will take place. Most training practices are group practices and this article is influenced by that fact. Trainers in small partnerships—that is, two or three doctor—and those who are single-handed have special problems, and the found in group practice. When preparing to take on a vocational trainee, the trainer must be sure that the existing high standard of organisation takes account of the special needs of training, for only if this is done can the trainer give of his best to the trainer.

for only if this is done can the trainer give of his best to the trainer.

Because the system of remuneration in general practice is complex the grant that is given to trainers is often misunderstood—particularly by those who have not repertence as principal or the properties of th

Emulation

Most trainnes have nothing with which to compare their training practice: the structure and organisation will be new to them, and they will end to accept it as the norm. The formative effect that this has on future generations of young principals will be considerable. Trainnes tend to be very loyal to their trainers, rather than critical, and are more likely to learn by emulating than by rejecting standards.

The trainner will be influenced by the standard of the practice. The trainner will be influenced by the standard of the practice. The trainner will be influenced by the standard of the practice only will the trainner be observed in this context but so also will the other partners and ancillary staff, and the end result must

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give an impression of care, interest, and commitment to the prient.

Vicational training is only one phase in the continuum of medical education, so is it unreasonable to ask that during training the young doctor is exposed to attitudes that endorse the concept of continuing education? The allocation of time to carry out the work of the practice must be so organised as to ensure that partners and trainines can attend local postgraduate events and to provide for regular sessions within the practice timetable. No matter how whatable the interchange at coffee untreable. No matter how whatable the interchange at coffee untreable, No matter how whatable the interchange at coffee arrives, at least one two-hour session should be planned each week for a formal tutorial, away from the intrusion of the telephone and other distractions. This should be planned each week for a formal tutorial, away from the intrusion of the telephone and other distractions. This should be in addition to the existing programme of meetings that would normally be a feature of a well-organised practice. The partnership that foregoes regular business meetings at least once each month does so may be a supported to the control of the cont

The basis of good group practice is good records. Even the single-handed doctor who maintains that he keeps his records between his ears has no excuse, for the moment he takes on a trainee he becomes a group, and communication becomes

traince he becomes a group, and communication becomes essential.

Most family doctors would admit that the state of records in general practice is below standard. The logical starting point for improvement is in reaching practices. This is so, firstly, because control of the starting point for improvement is in reaching practices. This is so, firstly, because check of the starting that the trainer takes from the teaching practice should influence standards in the practices that he or she might subsequently join. More and more practices that he or she might subsequently join. More and more practices are using typewritten letters when referring patients to hospital. The carbon copies that are kept with the patients' records provide valuable communication between the partners in the practice and the trainer. It is hard to see how in the 1980s teaching practices that still use handwritten letters for referral can justify it as good practice.

A total of 269 swabs was collected from patients with 269 separate episodes of pharmagins; 219 were collected from the urban practice and 30 from the rural practice. Fifty-four (26%), salphe were positive for Strap poyenat. There were no false-negative readings by the trainers, though selective bords and agar samples from as patients and a further two broth samples were interpreted as falsely positive. and 10 strap to the property of the prop

and a further two broth samples were interpreted as falsely positive. This gave specificity scores for the broth and agar media of 96.4% and 97.3%, respectively.

The distribution of the overall scores for patients determined by the scorecard, according to the results of the throat cultures, is shown in the figure. The mean symptom scores for patients who were culture-positive and culture-negative were 295 and 274 respectively, the difference being significant as p = 0.02. Analysis of each factor on the other pretents are considered to the control of the

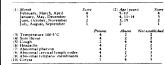


TABLE 11—Analysis of each factor on scorecard according to result of throat culture (as determined by medical laboratory scientific officer on selective blood arear)

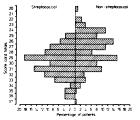
Factor	Per cent positive for factor		SE of	
	Culture negative	Culture positive	between percentages	(diff'SE
Fever	7-49	17:78	5 50	NS
Cough	61-53	47:12	7:55	NS
Headache	47 34	61:57	7 44	NS
Abnormal pharynx	82-00	96:23	3.69	< 0.001
Abnormal cervical lymph nodes	42 03	76 47	6 68	< 0.001
Abnormal tympanic membranes	5.85	1.89	2 45	NS NS
Coryza, conjunctivitis	38 68	32 65	7 19	NS

The overall clinical assessment of the likelihood of a streptococcal froat infection was unreliable, being correct in 25/165 (38.5%) for those assessed as streptococcal and in 175/204 (85.5%) for those assessed as non-streptococcal. The mean daily time required to pro-ess and interpret the throat cultures was 15 minutes.

Discussion

During the survey 20% of patients presenting with acute pharyagitis were positive for Strop pogenst. The unreliability of clinical assessment in discriminating between stroptococal or the cases confirmed bacteriologically had been correctly assessed. Although the symptom scorecards showed an overall meaning-ful difference in the individual and mean scores for patients confirmed as culture-positive or culture-negative, it was not sufficiently discriminatory to dispense with taking specimens from the throat for culture, as can be seen from the figure. A

BRITISH MEDICAL JOURNAL VOLUME 284 6 FEBRUARY 1982



Percentage distribution of total scores in patients with strepts and non-streptococcal pharyngitis.

and ron-streptococci pharmagnis.

score of ~ 24 reliably indicated only 39/215 (18.1%) of the true negative, while a score of ~ 30, although indicating approximately half of those true positives, also included 27.4%, of the culture-negative patients. On the scorecard we substituted the presence of abnormal tympanic membranes for the results of the white blood cell count for practical reasons. It is unlikely that this obstitute of the score of a store of the score of th

We thank the partners and staff of both training practices for their o-operation and especially Dr B Jacobs and Dr M Leadley for their co-operation and especially Dr D Jacob encouragement. Requests for reprints should be addressed to Dr Roger Finch.

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 Fey J. Trudt in general practice. Chapter 4. London: Royal College of General Practitioners, 1979.

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(Accepted 6 January 1982)

Communication is not only necessary between doctors but also between all staff. This is the concept of the practice team, which if it is to work means that all team members must be able to talk to each other and know what is going on. To achieve this, much organisation is needed to bring together the separate activities of doctors, nurses, health visitors, midwives, social workers, secretaries, receptionists, clerks, and others. The network of practice meetings, whether clinical, business, or training sessions, can include the different groups that make up the practice team—while the occasional whole practice team seminar can only help to exement relationships, define objectives, providing for the welfare of the patient. Developing a satisfactory system of meetings in a large practice may well take several years to achieve.

Revelation

It would be possible to work as a bank teller without learning anything about the foreign exchange department, how personal or business loans are made, or how the bank might act as an executor. The same is true for a trainer who, when dealing with the patients in surgery or on home visits might well fail to discover how all the backup services of the practice contribute to patient care. The well organised practice will reveal listle for the trainee (and, for that matter, to all the ustiff in the practice, or the same contributed of the properties of the practice of the same contributed of the practice of the same contributed of the sa

questions. Some in-tervice training or practice tealm memores may be required if they are to "yield the secrets of the practice" to the trace many techniques available to provide such revelations. For example, detailed job descriptions for all staff employed by the partnership would belp a trainer to know who should be asked about what. It is also a basic management technique in the proper running of a practice. Many procedures that help the smooth running of the practice are held in the minds of the staff and modified as employees come and go. Such a basic procedure a handling the paper flow in the building may bewilder a trainer. It is easy to prepare a tape recording that describes the paper flow, accompanied by illustrations in a display folder. Not only will the trainee benefit ioning the staff or the first time tractice. The foundation of the NHS practice organisation is in the Statement of Fees and Allowances (the "Red Book") w thereas the conditions of service for doctors in the Health Service is found in Schedule 1 of the General Medical and Pharmaceutical Services Regulations. It is a simple task for a secretary or clerk to keep the "Red Book" up to dock when the requirement on the practice premises, together with basic reference books in a practice library.

The technique of project teaching is not as widely practised as it should be. There are many ways of setting about projects, but they may be designed to encourage the traines to explore in some depth the values and inadequacies of the various aspects of the practice, and some of the outside agencies to which the practice relates. At the same time the project might give an increased understanding of a clinical subject. This example

BRITISH MEDICAL JOURNAL VOLUME 284 6 FEBRUARY 1982 (B Lynch, personal communication) illustrates the point. The trainee was given the following brief:

Consider the care of the chronic sick. For the purpose of this exercise the chronic sick are defined as those patients, whether ambulatory or bed-fast, who require fairly frequent consultations at home, mainly for continuous illness. In it possible to identify those patients who fall into the category of chronic sick? How could the source of this information be improved? To what degree is the concept of the practice team a factor in the Mould there be any easy way of identifying the number of elderly patients on the practice population graph, and if so, what might this be? Would there be any easy way of identifying the individual elderly patients in the practice?

be? Would there also be an easy way of identifying the individual cledry patients in the practice?

Clinical communication between partners in this field is difficult—Clinical communication between partners make for its improvement.

Put forward proposals for the care of the chronic sick in the practice and include comment on: (a) clinical implications for the practice; (b) the social implications for the practice; (c) the social implications for the practice; I consider the property of the property of the practice organisation (including financial) implication of the policy.

It would be helpful to you to compile a reading list of references that might be reference to this project.

The exercise was conducted over four or five months before being presented to a practice clinical review meeting. A great deal of understand our substitution of the following from the following control of the conversations with the health visitors and practice nurses concerning the vast amount of work that had been done in identifying and carring for the chronic sick; the discovery of an elderly patients' club that had been founded by one of the partners; an awareness of the inadequacies of general practice records in helping to identify the more deserving of the chronic sick, and the sheene of any continuation notes in the patient's sick, and the sheene of any continuation notes in the patient's sick, and the sheene of any continuation notes in the patient's Several totorials with the trainer throughout the project fed to a better understanding of the problems with the trainer learning about the contribution of the social worker to the care of the chronic sick. He also discovered that, when proposals were made to alter existing practice, the partners accepted the need for change and were willing to consider policies that could be implemented in the future.

Conclusion

Conclusion

Although this article has only skimmed the surface of the subject, many will raise their hands in horror to say that it is impossible to find the time to organise a practice well enough to give this much effort to a trainec. It is not easy, but it can be and has been done. The answer lies in spending a little money on adequate ancillary surfar and a little time on delegating much of the routine organisation to those who are not clinically concerned with patients. The rest is achieved by the careful organisation of the doctor's time to harmest the enthusiasm that is an essential prerequisite for a practice that wants to embark on the business of teaching

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Br Med J (Clin Res Ed): first published as 10.1136/bmj.284.6313.389 on 6 February 1982. Downloaded from http://www.bmj.com/ on 23 April 2024 by guest. Protected by copyright