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# Continuing Education

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# Developing the matrix

# I ROBSON

Whichever way you look at it—volume, cost, and, for good or bad, outcome—the pharmaceutical industry dominates continu-ing education in general practice. It is undoubledly the single biggest modifier of physician behaviour. The average general practitioner can expect exposure to 420 free journals, 1600 mailed advertisements, 15 000 journal ads, and 30 visits from a company representative each year at a cost of 270 m or 23500 per general practitioner in 1978. Sponsorthip of posigndustre complex e pratement of industrees at almost every available interface. The problems of such marketing have been well documented.

complete a pattern or innuence at aimost every available interface. The problems of such marketing have been well do the second second second second second second based, such actics are certainly effective. At the hab of this system are in-practice, face to face techniques based on the company representative who accounts for about half the pro-motional budget. Not since they were undergraduates will doctorn have faced such sustained personal pressure about what they do, how they do it, and how it might be done dif-ferently. It is an approach that mainstream continuing education has largely ignored. The was allocated for section 63 activities in England Orparitment of Hatch and Social Security, 1983, of which a substantial amount went on vocational training. Ninety per cent of these activities are lectures presented outside the practice. Only 3%, are classified under the heading of "general practice", incluter community health not coils activities absed on hospital postgraduate centres is, as Byrne has pointed out, likely at bet to have a "shorgun effect; scattered, weak, and unpredicable". Between 160° and 1977 the ourgung in fouca-tional activity reflected the revialisation of general practice. Of

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late, the process has become retarded, in form, content, and numbers reached, concerned with updating old methods rather than developing the new. What is most notable is the commit-ment of those general practitioners who do take time to support these activities whatever their deficiencies (table 1).

PRACTICE OBSERVED

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ABLE 1—Attendances by general practitioner rincipals, assistants, and trainees in England i section 63 activities (Department of Health nd Social Security, 1983)

Since the 1950s, when Moran saw general practice as the bucket into which fallen specialists stank, the medical schools have belatedly recognised the discipline. In 1980, 368°, of medical students placed it as their first career choice.<sup>4</sup> The present dean of 51 Mary's thought that: "The next generation of inner city general practitioners could be assured if today's students were given a full sight of the challenge, a local op-portunity to train to meet it, a realistic prospect of partnership with appropriate premiss on completion of training, and a continuing involvement in postgraduate and undergraduate education.<sup>4</sup>

with appropriate premises on completion of training, and a continuing involvement in postgraduate and undergraduate education."" This is laudable, but assured for what? There has never been any shortage of applicants here." My predecessors in practice were young once, worked very hard, and attended available postgraduate lectures when they could. New blood is a necessary buttoner, fallen on onc, have always heen wellow on weak of the and sustained by their patients. What is not assured, in inner cities or clewshere, is either he resources or the mechanisms that will foster the development of primary care over the

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succeeding 20 or 30 years of professional life. Viewing a sub-stantial part of one's work as unnecessary or trivial is related not to age but to the nature of training (table II).\* We should

TABLE II-Variations	in practice	with	doctor's	date of	birth

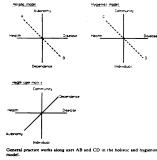
Percentage of doctors by date of birth Before 1917 1917-26 1927-36 1937 or later (\*\*) (\*\*) Practice has electrocardiograph Family care felt to be very 36 27 16 43 36 25 64 17

Adapted from Cartwright A, Anderson R. General practice revisited. London Tavistock Publications, 1981."

learn the lesson. The future of general practice will only be assured when development is based around the context in which it works.

#### The health care matrix

The bealth care matrix The bealth care matrix related models: the hygenesis and the holistic (figure, Practice takes place along and around the diagonals. At one extreme, beams right, the second second second second second takes and the second second second second second takes and the second second second second second takes approaches between and around these points. Holism takes as its starting point the expressed needs of patients—the story, history, or problem.<sup>11</sup> At A, essentially healthy patients are listened to or provided with advec. Their current meeds are listened to or provide vision. At A, essentially healthy patients are listened to or provide vision. At A, essentially healthy patients are listened to or provided with advec. Their current meeds are listened to contraceptive advice. At B, needs -for example, consumpling or contraceptive advice. At B, needs vision imposed limits—for example, the support of chronically such as the problem. The hygening september and in the second second the problem september and relative or absolute risks and the second second second second second second second second second the problem september arises from medically or socially the problem second second second second second second second second the problem second second second second second second second second the problem second second second second second second second second the problem second seco



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BRITISH MEDICAL JOURNAL VOLUME 287 23 JULY 1983 their modification. At C, population based strategies take whole populations at low rak. Here the benefits and costs for each child immunisation. At D are high rak individuals, where costs and benefits for each person are high, and in terms of a shift in social outcome the impact is low—coronary arerey surgery." In day to day practice the areas are intimately and essentially related—the health care matrix. "We should continually remind ourselves" wrote Weed, "that not to think quantitatively about the needs of all the probability provides and the state and the polarity forward than philaethropic runniantion on the lives of our patients. To meet the needs, primary care must practically integrate the holistic and hygienist approaches." "If general practice is not to become an boolet sixt Mhoy Legasted to the perimeter of the field, then it will have to move, with the population its preve, upward and to the left. Continuing education is part of the development along that axis.

#### Approaches to learning

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When asked, 22 (79°...) of those who had been re-exposed still believed that a further exposure to penicillin would be harmful to them. In 45 cases (58°...) at was possible to identify the form of penicillin responsible for the initial aligned reaction with responsible for somable extra any and thins is given in able [11 along with the type of penicilling were later to those in the re-exprosed group. In only 32 case notes (41) - your a systematic to identify the penicillin as well as the episode for which it was prescribed.

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I thank members of the Royal College of General Practitioners Education Division Working Party on the Black report for discussions on the bolistic approach to health care.

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Penicillin allergy: a suspect label

While referring to patients' records during daily clinical practice I noted that a large number carried a reference to penicilihu altergy. The evidence for this way soften hard to find and some patients seemed to have been re-resposed without il effects. It was likely that many patients had been incorrectly liabelled and that it might be possible to improve the records in this respect.

The study population was a personal list of 2100 patients. Over two years I inspected the notes of all those who consulted for any reason. Any record of a pencillin reaction was noted and all those receiving an antibiotic were asked specifically about allergy to pencillin. All patients thus identified as allergy ever saked about then carefully searched for common power and the allergy. The records were then carefully searched for common power and the allergy. The records were then carefully searched for common power and the allergy of the records were then carefully searched for common power and the search of allerged allergy was also recorded, together with any note of a further reaction.

Sevents eight patients believed themselves to be allergic or were so demitted on their records. '2 men and 46 women'. This represents a minimum prevaience of 37°, aithough an cast figure cannot be given because not every patient on the list consulted during the study period. No less than 28 patients (36) - j had been recerposed to period. The list has 28 patients (36) - j had been recerposed to period the list of hist spools and the patient's parentmear *at ma me*. In both tables the group that was later indivertinity re-exposed is compared with all the patients.

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Practice Research

N T A OSWALD

Mathod

Results

# TABLE III — Type of pericellin known to have caused a reaction

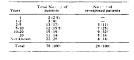
Type of pencillin	No ( ) of patients				
	Initial	Re-exposure without reaction	Re-exposure with reaction		
Penicilin Ampicilin amexycillin Ampicilin plus	22 (49) 21 (47)	3 (12 5) 15 (62 5)	1 (25) 2 (50)		
fluctoras illin Fluctoras illin	2 (4) 0	2 (8-3) 4 (16-7)	1 (25)		
Tetal	45 (100)	24 (100)	4 (100)		

# Discussion

Discussion The results show that penicillin allergy is a common label which restricts doctors' choice of treatment and implies a risk of life threatening side effects. Thus doctors are rightly bound to be considered to the second second to be and penicillin or whose vector discussions and the second to be considered in this paper, however, also show that many such ptients have been re-exposed and further reactions have been minor or in most cases there were more. This implies that patients have been incorrectly given the label "allergic to princillin."

Miscellaneous reactions included non-allergic side effects of peni-cilin and reactions that are not known to be caused by pencilins. In many case, there was no memory of symptoms at all, the patients of the the transmission of the transmission of the transmission. Of the 28 re-rapoed patients only four 14  $^{+1}$ , had a further reaction. One had a recurrence of angio-orderm. Three patients had a maculo papular rash. Two of these had described a maculo papular rash. Two of these had described a maculo papular rash. Two of these had described a maculo papular rash. Two of these had described a maculo papular rash. Two of these had described a maculo papular rash. Two of these had described a maculo papular rash. Two of these had described a maculo papular rash. Two of these had described a maculo papular rash. Two of these had described a maculo papular rash. Two of these paper had no rescription of any had.

### TABLE 1- Years since original episode





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the maculopapular rash associated with ampicillin, which occurs in an appreciable percentage of all those exposed to the drug, are a particular problem. Much has been written about this recard, which is probably not allergie and which does not imply cross sensitivity with other pencillins.<sup>1</sup>

#### Conclusion

date. This would netp use the second second

I thank Mrs Vida Sellen for typing the manuscript.

<sup>4</sup> Collaborative Study Group: A prospective study of ampicillin rash. Br Med J 1973 (17-9). (Accepted 17 May 1983)

### What would you do?

What would you do: Ny wife white to be a carcer general practitioner and to that end is just completing a vocational training scheme, having added the diploma of the Royal College of Obstritics and Stynaeology, the family planning certification, and as for justed the written part of the As a probation officer mysell I was intrigued to receive a phone call from the senor general practitioner—a trainer—at a practice to which my with had applied for a vaciner, The conversion contained two points. Britly, all the women on the local vocational training secondly, they were not appointing a woman because "they have a habit of getting pregnant." Hearsy has it that this is not local lanker, How would you go about securing an interview, may a job even, under such circumstances?—A general practitioner's husband.

