Br Med J (Clin Res Ed): first published

as

10.1136/bmj.288.6422.977

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31 March

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977

This is the behavioural imperative that leaps from the pages of Professor Bain's report of a randomised control trial in 189 children. The trial compared the efficacy of pseudosphedrines, triprolidine, and placebo in children who were treated, in addition, with antibuotics. These drugs made no difference to the chincal course of the condition and resulted in appreciable side effects in 5% of children aged 3 to 10 years.

Dr Hurwitz's response

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BRITISH MEDICAL JOURNAL VOLUME 288 31 MARCH 1984

Practice Research

antihistamine treatment?"

We are interested in whether the research papers that we publish in Practice Observed have much influence on anybody. We have, accordingly, added four general practitioners to write burfly about how they responded to the paper by Professor John Bain on "Can the clinical course of acute online media be modified by ystemic decognitant or antikitamine treatment?" (3 September 1983, p 654) and whether they have changed their practice in any way be-cause of it. ED, BMJ.

"Do not prescribe systemic decongestants or antihistamines for the treatment of acute otitis media in childhood!"

BRIAN HURWITZ, HWK ACHESON, AM STEEL, TA CARNEY

Burn Brac, Hexham NE46 2ED T A CARNEY, MB, MRCGP, general practitioner

L, I ACAKNEY
My patterned response to a child with acute otitis media has hithereo included a reflex to prescribe such substances. These primins, Yuel Internet yoe canopy and the substance is the substance of the substance. The substance of the substa

978

being prescribed these drugs for new month as the trial protocol demanded? (2) How have the prescribing habits of these general prac-tioners changed in view of the results ? control of the study of the results ? (4) What prescription of the study of the study of the leath Service swings, of mounting this study, if the inferences derived from the results were followed by all general prac-tioners? It seems to me that the lived spectrimes of general prac-tioners? It seems to me that the lived part for the results of hould enrole us to get a better "feel" for the results of such studies and thereby make for easier incorporation into a lifetime of changing practice.

Dr Acheson's response

Dr Acheson's response Three is a contant danger that medical interventions may become stereotyped. For this reason most doctors are aware of the need continually to review previously accepted treatment regimens in relation to new discoveries and better outcome data. For this reason Professor Bain's paper is welcomed. He questioned the effectiveness of decongestant and antihistamine treffection our concourse of both when compared with a placebo. He found no difference between the various treatment groups and concluded that neither decongestant nor antihistamic treat-ment affects outcome provided an appropriate antibiotic is prescribed.

ment affects outcome provided an appropriate anuuouour is prescribed. As part of a recent research project (unpublished results), 114 randomly selected general practitioners, 85 general practice trainers, and 10 ear, nose, and throat consultants were asked what treatment they would prescribe for a patient with acute oitis media (table). None mentioned an antihistramine, though 1 am aware that many general practitioners do prescribe antihistramines in this condition, and about a third mentioned a decongestant. Pencidilin V was the preferred ambibutor. It is my practice to prescribe an antibiotic, usually penicillan V,

Drug treatment in acute otitis media Percentage of random group of general practitioners (n = 114) Percentage of ear, nose, and throat consultants (n = 10) general practitions trainers (n = 85) Drug category (a) Antibiotic (b) Analgenic (c) Decongestant (a) + (b) (a) + (b) + (c) (a) + (c) (b) only (b) only 98 8 57 6 30 6 30 0 37 0 18 0 11 0 10 96 5 63 2 37 7 23 0 35 0 24 0 12 0 10 100 70 50 Not available referred antibio Penicillin V Ampicillin Erythromycin Amozycillin 60 10 70-6 20-0 15-3 14-1 50-0 23-5 21-9 13-2 When stated m

BRITISH MEDICAL JOURNAL VOLUME 288 31 MARCH 1984

intrin matcher journal tocome too j match for for those over Sysars of age and amoxycillin for those under Sy, together with an analgesic for the first 48 hours if pain is a prominent symptom. In my view the rationale for the use of decongestants and antihistamines, singly or in combination, has never been firmly based and I never use either. Bain's well designed study has proved the point.

Dr Steel's response I very much enjoyed Pofessor Bain's paper. The evidence, presented clearly, supports the view that pseudocphedrine and triprojidane do not alter the clinical course of acute oits media. I was especially interesting to shave the side effects of treatment with these drugs highlighted, together with their effects on I. The study 21°, of children had a recurrent attack of oits interaction of the study of the study of the study of the form of antibiotic was prescribed—was amonyclilin 50 mg/kg dody weight for 10 days used? Did the antibiotic affect the the study for 10 days used? Did the antibiotic affect the dorother of the study torother. I would, however, have searcement attack of oith the study of 10 days used? Did the antibiotic affect the dorother of the study of the study

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Dr Carney's response

Bravo! This is the sort of article I have been asking for." A report of research by a general practitioner (albeit a professor) investigating the outcome of a disease seen only in general

BRITISH MEDICAL JOURNAL VOLUME 288 31 MARCH 1984

Research in General Practice

Attaining the Impossible

I have been accused by the assistant editor of this journal of stating that "the most interesting things in general practice cannot be researched." As a young boy I remember my father, who was a self made businessman, saying "The very difficult we can do at once, the impossible takes a little time." It was perhaps this that I had in mind when I described some of the problems in general practice as impossible to study by research. The scientific analysis of the general practicioner's work is a relatively new development, and much of the methodology is

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980 illness and the prognosis and he asked to have terminal Gret at illness. Daughter & and her children agreed reluctantly to forwords tapperfor for MT, Wullies on B complained from after that his father should have only the best care in hospital. In due course MW died at home. MT W will appear in the mortality statistics as dying from carcinoma of the lung with inschame: heart disease as an associated condition. In the general practitioner's statistics he will appear as a large number of doctor initiated home visits and will also appear repeatedly in the district nurse's returns. He will not appear at all in the hospital statistics in the year of cost the National Health Service a good deal of money in prescriptions for diamorphine, cholorpomazine, and diazepam over that period. No record will appear of the saving of several thousand pounds to the district hospital which did not have to provide terminal care.

ality and outcome

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set up their own research projects and publish the results, so that when this subject is next discussed by sudit groups there is not one but there of four papers to use as resource. My congenulations to the *BMJ* for publishing the papers on practice research and this paper in particular. They are fulfilling their obligation to provide resource research for general prac-titioners.

their obligation to provide resource research tor general pra-tritioners. Unfortunately, the results of a strawpoll of five other audit groups in Northumbris and a larger number of individual general practitioners found that no other audit group that I have of had discussed the paper and only two general prac-titioners recognised the reference. General practitioners have an obligation to continue their education. Papers like this must be read individually and by groups. Continuing education is not something that has to be provided by course organisers and clinical tutors but something that we all have to be personable for by reading the latest research, from and about general practice.

My apologies to J R Anderson et al, authors of the indium 111 paper, for choosing their paper, a purely random choice. My thanks to Miss V Male and Mrs G Richardson for analysing the two periods of four weeks for the data in this paper.

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• Fry J

primitive. Given time the impossible may yet be achieved. To examine the proposition however it may be helpful to consider Mr Wu, aged 60, who suffered from ischaemic heart disease was dying of carcinoma of the lung. Mrs Wu, aged 58, had survived a severe hemiplegia and was just able to cope with the housework but could not go out alone. Their daughter C, aged 35, lived in the same block of flats with her husband and three children but had never got on with her parents. The eldets too B lived 200 miles away with his wife and family. The W family had been my prioritis for 15 years. Among my the had become addicted 12 years ago, and astificationity treating Mr W's amiceri yimporence 10 years before. It had also looke divider. C during her pregnancies and subsequently cared for the children.

BRITISH MEDICAL JOURNAL VOLUME 288 31 MARCH 1984

BRITISH MEDICAL JOURNAL VOLUME 288 31 MARCH 1984 relationship to quantitative measurements that relate to the outcome of care have, however, been less successful." Questions likely to be raised by those who provide hospital services by thin description of Mr W's terminal care will be different from the foregoing but none the less related. Why, they may ask, way Mr W careful of rai thome when so many or hospital? The wide variety of referral rates of patients from general practice to hospital has been known for at least 20 years. The most extreme rates for outpatient referrals were described by Scott and Gimmer in Editoriuph (0-6-258 per 100 patients of the doctor's list a years). Repeated attempts to explain these differences by the educational have failed. Cummins *et al.* [ollowing a detailed study of this problem, invested the term "referral threshold" which they thought could be applied to individual general practitioners. It seem, invested the term "referral threshold" which they about could be applied to individual general practitioners. It is easy about the less the source in the method length of the things which we have scen are so difficult to measure. General practitioners are notorious for generalising from a

etablish sound relationships, eveks statistiction in his patients, and all those other things which we have seen are so difficult to metablic states and the states of the states of the states of the sample of one. The case of AW wis used not for this purpose but to illustrate some of the complex issues that are important in making decisions in general practice and in measuring the outcome of the care provided. That general practice research hands of the progress in solving these problems may be due to two factors. Firstly, there has been a great need for descriptive research aimed a defining the doctors role and understanding need to develop the way primary care services are delivered and to monitor the effect of the changes carried out. This less difficult work has kept the relatively small numbers of general practitioners who are interested in research fully occupied. Secondly, few general practitioners have the knowledge or skills to develop research into areas concerned with patient satisfaction and human behaviour, and attempts to develop a multi-disvays been successful. This in of supriming because both disciplines, medical sociologists in undergraduate medical education and better resourced departments of general practice will encourage a more productive partnership in research bare the astivo develop the statisfaction in a nume, the new the develop the statisfaction and better resource departments of general practice will encourage a more productive partnership in research bare were the disciplines in the future. Attaining the impossible may take a little time.

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