Promoting smoking cessation in general practice

EDITOR,-Simon Chapman finds general practitioners wanting in their efforts to stop their patients smoking.1 As a result of the government's banding scheme for health promotion activities in general practice we distributed a questionnaire to 6530 of our patients who attended our practice over six months. Altogether 1523 smokers were specifically asked if they would like our help in stopping smoking. A total of 365 replied affirmatively, and 100 of these were invited to attend a midweek evening meeting outlining information and help available to enable them to stop smoking. Twelve patients replied: eight accepted, three declined, and one had already stopped smoking.

On the evening six smokers attended. All were counselled on a nearly one to one basis by the health professionals, who included a doctor, a health visitor, a district nurse, a practice nurse, and the district health authority's health promotion coordinator. The health professionals' view on stopping smoking was aired, and a video was shown and carbon monoxide monitoring demonstrated. The group agreed to meet one week later, when five patients attended. Two of these five have continued in their resolve to stop smoking.

We are left wondering whether this operation was worthwhile in terms of its cost and the time required and whether our time might have been better used.

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Stability of vaccines

EDITOR,-Recent correspondence and articles have expressed concern over the unreliability of the cold chain for vaccines, which jeopardises their immunogenic activity, not only in developing but also in developed countries.14 Manufacturers of vaccines have been aware of these problems for many years, and at least one manufacturer has made considerable efforts towards improving the heat stability of vaccines. The table summarises the thermostability of a selection of widely used vaccines manufactured by SmithKline Beecham Biologicals. The data for the hepatitis A and B vaccines were obtained in clinical trials, in which the immune response elicited by batches of vaccine that were stored at the temperatures shown in the table was compared with that elicited by batches stored at recommended temperatures. The data for the other vaccines were obtained in the laboratory.

Although all efforts should be made to store

vaccines at recommended temperatures, it is comforting to know that many vaccines can withstand short periods at higher temperatures without losing their potency.

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Alcohol and bone mineral density

EDITOR,-In their paper on alcohol consumption and bone mineral density' Troy L Holbrook and Elizabeth Barrett-Connor cite one of my papers in their discussion. They say: "Although alcohol has been shown to have direct toxic effects on bone and to disrupt bone metabolism [reference to my paper² and another], these observations have been largely based on studies of chronic alcoholics." This is an error. I also wish to address the authors' statement at the beginning of the next paragraph of the discussion: "The biological mechanism by which increased alcohol intake could promote higher bone mineral density is unclear.'

The study in which colleagues and I showed the existence of a direct toxic effect of alcohol on osteoblasts was performed not in chronic alcoholics but in people with acute ethanol intoxication who were not regular drinkers.3 We chose these subjects for the reason noted by Holbrook and Barrett-Connor-namely, that in chronic alcoholism the effect on the skeleton of other factors related to alcohol, such as metabolic and nutritional deficits, cannot be excluded. In my review,² cited by Holbrook and Barrett-Connor, I postulated, as Laitinen et al (the authors cited in conjunction with me) have done, that one way in which alcohol may favour an increase in bone mass is by stimulating secretion of calcitonin.⁴ This hormone significantly increases bone mass and significantly reduces the rate of new vertebral fractures, as colleagues and I were the first to show.' Our finding was corroborated by a paper published later in the BM7.

Calcitonin has an important effect on bone cells,

Stability of vaccines stored at temperatures above those recommended

Vaccine	Temperature recommended for storage (°C)	Temperature at which stored (°C)	Potency maintained after	Reference
	2-8 Lyophilised	20-25	2 weeks	5
Measies (Rimevax)		37	1 week	5
	∫ 2-8 Lyophilised	41	2 days	
Meningitis (Mencevax AC)		45	10 month	6
Poliomyelitis (Polio Sabin (oral))	2-8 or -20	20-25	3 weeks	5
, , , , , , , , , , , , , , , , , , , ,		37	1 week	7
Hepatitis B (Engerix B)	2-8	37	1 month	8
		45	1 week	8
Hepatitis A (Havrix)	2-8	37	1 week	*

*G Wiedermann and F Ambrosch, unpublished data.

reducing osteoclastic activity and increasing osteoblastic activity.º Alcohol's effect on calcitonin itself may account for the increase in bone mass resulting from alcohol intake. It is unfortunate that Holbrook and Barrett-Connor did not measure serum calcitonin concentrations and correlate them with bone mass, as they did for other variables. Had the correlation been significant it would have clarified one of the mechanisms whereby alcohol intake affects bone mineral density.

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Diagnosis and management of systemic lupus erythematosus

Sun protection is vital

EDITOR,-Photosensitivity is a common precipitant and manifestation of systemic lupus erythematosus. Patrick J W Venables's suggestion that barrier creams should be used to prevent it is an oversimplification.¹ Sensible advice should include advice on avoiding exposure to the sun. In Britain patients should avoid being outside from 11 am to 3 pm from March to September and should wear protective clothing, including hats; patients should holiday in temperate latitudes or during winter. In addition, sun block rather than barrier cream, is essential.23 Barrier creams have been used to protect against irritants, although there is doubt about their efficacy.4 The best sun block creams are those based on physical blockers, such as titanium dioxide, which will screen out ultraviolet A and B radiation. These simple barrier measures should prove far more effective in preventing photosensitivity than the use of barrier creams.

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Thalidomide modifies disease

EDITOR,—Patrick J W Venables provides a thorough and up to date overview of systemic lupus erythematosus.1 He does not, however, include thalidomide when discussing drugs that may modify the disease. Empirical treatment with thalidomide has been successful in several inflammatory dermatoses, including cutaneous manifestations of lupus erythematosus resistant to topical steroids and antimalarial drugs. Thalidomide has been reported to be of benefit in subacute cutaneous and chronic discoid lupus erythematosus as well as lupus erythematosus profundus.²⁴

The mode of action of thalidomide is unclear, although its teratogenicity is well recognised. Care must be taken to monitor for the development of possible peripheral neuropathy. Despite these side effects thalidomide is useful in combating the often disfiguring cutaneous manifestations of lupus erythematosus.

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Medical management of rheumatoid arthritis

EDITOR,-In their reviewing of the medical management of rheumatoid arthritis D R Porter and R D Sturrock document the poor outcome achieved in the past.1 They identify the need to treat patients earlier but note the difficulty of doing this in the absence of any reliable predictive indicators. We question the statement that no reliable stable indicators are available as we recently published evidence that two genetic factors, combined with rheumatoid factor, produce clinically useful predictions.² The findings of this pilot study have been confirmed in a consecutive series of 177 patients attending our early inflammatory arthritis clinic.3 This showed that clinically valuable predictions of radiological erosions at one year could be made. The presence of either rheumatoid factor or the conserved epitope had a sensitivity of erosive disease of 95%, permitting the identification of virtually all patients at risk of erosive disease. The presence of the conserved epitope plus rheumatoid factor had a specificity of 88%. This allows selection of high risk patients for more toxic intervention. A subgroup of patients with Dw4/Dw14 were identified with an even worse prognosis.

The importance of genetic typing is that it can be done at any stage of the disease process. This has become particularly relevant as patients are seen earlier in the disease in an attempt to prevent damage (current evidence indicates, that, though painful joints are improved at whatever stage of the disease patients are seen, function is only stabilised.4 Further pressure to treat patients early comes from evidence showing that patients with persistent active disease suffer harmful catabolic effects, such as osteoporosis-for example, patients with raised C reactive protein concentration for two years lose on average more than 10% of bone from their hips.5 Patients seen close to the onset of their disease are difficult to distinguish from each other on clinical grounds, hence the importance of these objective, stable measures.

Though there was once considerable debate about which patients should receive second line treatment, this has now changed. A recent survey from our national early arthritis group (which reflects national prescribing habits) indicates that 88% of patients diagnosed as having rheumatoid arthritis receive second line drugs in the first three years, and all but 5% of these receive them within the first 12 months.⁴ Debate now centres more on which second line drug to give rather than on whether to give one. The information obtained from prognostic indicators allows this choice to be made on logical grounds. This approach also bypasses the argument, referred to by Porter and Sturrock, for inverting the therapeutic pyramid that is, giving aggressive treatment to all patients. This is clearly inappropriate for the many patients who do well with less aggressive management.

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Diagnosis in histopathology

Is often unclear

EDITOR,—In the absence of appropriate information it is wrong to make specific comments about recent events in Birmingham, where a pathologist has been criticised for misdiagnoses.¹ Most reports in the press, however, have shown a worrying lack of insight into the nosological status of histopathological diagnoses.

Managers (and even many clinicians) may have been misled into believing that lesions submitted to histopathology laboratories are easily recognisable as benign or malignant. It also seems to have been accepted that review of a case by a solitary independent expert can provide the correct answer. Nothing is further from the truth. In practice, a moderate number of submitted lesions prove extremely difficult to interpret and the diagnosis is uncertain. Furthermore, when such lesions are reviewed by panels of experts half of the experts may classify them as benign and half as malignant.

Virtually all of diagnostic histopathology is riddled with such problems, and bone lesions are probably the most complex and difficult to diagnose. Perhaps for these lesions more than any other, the final diagnosis must rest on careful interdisciplinary correlation, integrating information from all clinical specialties. Even then, the accurate diagnosis may not become evident until after several years of follow up. The review of one expert's diagnosis by another is not an acceptable option realistically. As a minimum, several experts must be used, and even then it must be appreciated that the diagnosis offered by the group is a consensus opinion rather than guaranteed to be right.

In all clinical specialties consultants who persistently perform badly—diagnosis and practice compared with the consensus of their colleagues must be identified. To achieve this aim, British gynaecological cytopathologists remain unique in subjecting themselves to yearly proficiency testing. It seems essential that, in addition to medical audit, similar quality assurance is incorporated into all branches of medicine. It is perhaps ironic that in many areas such programmes are already in place for histopathology. As a profession, we must also decide how to act once people who persistently perform badly have been identified by such systems.

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1 Kingman S. Birmingham pathologist criticised for misdiagnoses. BMJ 1993;307:581. (4 September.)

A multidisciplinary affair

EDITOR,-It is well known that a team, comprising not only a pathologist but also clinicians and radiologists, is required to diagnose bone tumours. The history of the condition, radiological appearance, and site of the biopsy specimen all influence the diagnosis and have to be taken into account. Pathological examination alone can result in a false diagnosis. The inquiry at the South Birmingham Tumour Service¹ should therefore look not only at the tissue samples but also at the procedures for diagnosis, the radiographs (with a bone radiologist), and the clinical notes. Sharon Kingman reports that a 9 year old boy with osteomyelitis was treated for a bone tumour'; this strongly suggests a lack of teamwork and input from a radiologist.

Before putting the entire blame on Dr Starkie the inquiry should also look at the diagnostic team at the South Birmingham Tumour Service. Did it exist?

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1 Kingman S. Birmingham pathologist criticised for misdiagnoses. BMJ 1993;307:581. (4 September.)

Use of diltiazem in sport

EDITOR,—Further to reports of use of anabolic steroids by people participating in sport,¹ we wish to highlight a potential problem that we have encountered in our locality.

A bodybuilder suffering severe abdominal cramps after training attended the accident and emergency department. Questioning elicited the fact that he regularly used anabolic steroids but that recently, to augment his training, he had been taking the calcium channel blocker diltiazem in doses far exceeding the maximum dose recommended in the *British National Formulary* (480 mg a day).² His symptoms were eased rapidly by an injection of hyoscine butylbromide, and as no other side effects were noted he was discharged.

Apparently, the use of diltiazem is well established locally among bodybuilders and rugby footballers. The drug's side effects, such as gastrointestinal disturbance, are well documented,² but potential cardiac rhythmic disturbances could be fatal.

There is scientific evidence that diltiazem increases maximum oxygen consumption after training,³ but we are intrigued and worried about how the drug is obtained. Our patient declined to disclose his source of supply.

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