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Hypertension treatment and control in sub-Saharan Africa

Figure of $1800 per life saved seems optimistic

Editor—Cooper et al call for the inclusion of antihypertensive treatment among health priorities in sub-Saharan Africa. Assuming that the patient needs one drug to control his or her blood pressure and that compliance is good, they estimate that one death could be prevented at a cost of $1800 (£1130).

Some patients need two or more drugs to control their hypertension, and compliance rates for chronic diseases in Africa are low for many reasons, including poverty, lack of access to health services, mobilit of the population, and a lack of understanding of the nature of chronic disease. In the Republic of Congo patients arrive at a health centre to be cured. A doctor who can only control an illness is often seen as having failed, and the patient will then either try a new doctor or consult the local healer.

The Centre Médical Evangelique runs an externally funded project for patients with epilepsy. The cost of the treatment is only $18-$24 (£11.70-£15.10) a year, and most patients see a considerable change in their condition. The programme is mobile to facilitate access. Despite this the average non-attendance at any consultation is about 40%. This figure is likely to be higher for a similar programme of antihypertensive treatment, because the patient often experiences no improvement in symptoms and may have side effects from the medicine prescribed.

I think that Cooper et al's figure of $1800 per life saved is optimistic. Even if accurate it means that antihypertensive treatment cannot rank alongside the provision of clean water, vaccination, and oral rehydration in terms of lives saved per unit cost. So what should be done for hypertension in sub-Saharan Africa? I believe we should treat patients with symptoms or complications, or both, as they are more likely to be compliant with treatment. We should also treat those who want to be treated and who understand the importance of continuing treatment. Doctors and other interested parties need to disseminate information to their communities about the nature and risks of hypertension.

Finally, the authors do not mention the value of dietary salt restriction. This is cheap and particularly effective in African populations. Measures such as this would have a greater impact on the prevalence of hypertension in the African continent.

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Advice to authors

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Please supply each author's current appointment and full address, and a phone or fax number or email address for the corresponding author. We ask authors to declare any conflicts of interest. Letters will be edited and may be shortened.

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Burden of cerebrovascular disease will increase as more people survive to old age

Editor—We agree with Cooper et al's conclusion that hypertension is worth treating in sub-Saharan Africa but would like to raise two points. Although in developed countries more deaths from ischaemic heart disease than stroke are attributable to hypertension, this is not true of sub-Saharan Africa, where (particularly in rural areas) ischaemic heart disease is rare; thus care needs to be taken when one is comparing figures in which cardiovascular diseases are grouped together. The limited data on stroke that exist for sub-Saharan Africa mainly relate to hospital studies. They suggest high rates of hypertension, and high rates of default from treatment for hypertension, in those patients who attend hospital with stroke.

While knowledge of cause specific mortality in adults in sub-Saharan Africa is limited, so also is information about cause specific morbidity. Cerebrovascular disease is a major cause of disability in people who survive stroke in developed countries.
Although absolute numbers in sub-Saharan Africa are currently low,1 as the proportion of people surviving to old age increases so will the burden of cerebrovascular disease;2 age standardised mortality already exceeds that in the United Kingdom.3 The most important risk factor for stroke amenable to modification is hypertension, and we are piloting cost effective methods of controlling hypertension in rural and urban areas through the “health in the next millennium” programme of the Department for International Development.

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Authors’ reply

Editor—We agree with Burdon that our estimate of efficacy may not hold for all communities. Our interest was to advance a discussion based on evidence. For example, while it is true that some patients will require two or more drugs, it would be useful to undertake studies to determine how much risk reduction would occur with a simple regimen of one drug versus tailored multidrug treatment. We also need to evaluate the proportion of patients who will continue to take treatment long term; this may vary widely from one setting to the next. In the United States, after 30 years of effort, hypertension is controlled in only a quarter of hypertensive patients; we should not abandon interventions in Africa because they fail to meet an unreasonable standard.

We understand Burdon’s motivation to restrict treatment to patients who have end organ damage or symptoms, but we believe that this is too late—renal failure or stroke is often a death sentence in Africa. Furthermore, it concentrates the effort on such a small group of patients that the investment in the whole process has little payoff. We cannot find any evidence for concluding that compliance among asymptomatic hypertensive patients is an overwhelming obstacle. In our communities in Nigeria and Cameroon a vigorous campaign to increase awareness has resulted in many patients taking their pills faithfully, although we cannot quantify that effect. We are wary of authoritative proclamations that are based on opinion alone. Non-pharmacological interventions have considerable appeal. Unfortunately, they do not work for patients with severe hypertension.

We are no more sympathetic to Montgomeny’s position than he is to ours. We may sound like medical imperialists, but he sounds like Albert Schweitzer. Presumably he believes that Africans should not be treated for hypertension; at the very least he is out of touch—millions are. In Cameroon, for example, government programmes exist to provide care for hypertension and diabetes. And why not? Because the patients also need clean water? If they need water, why not electricity and education? It is better to answer those questions with data.

We appreciate the comments from Walker et al. The group in Tanzania is making enormous contributions to our understanding of chronic disease in Africa.

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For the Chronic Disease Network in the African Diaspora

Ion channels

Ion specificity of motor end plate acetylcholine receptor

Editor—I was surprised by the assertion of Laniado et al that “acetylcholine... acts at the postsynaptic membrane of the motor end plate to open chloride channels.”5 In a series of classic experiments in the 1960s, Takeuchi and Takeuchi used glass microelectrodes to clamp the end plate region of partially curarised frog sartorius muscle.5 The end plate current decreased as the membrane potential was clamped at increasing values from its starting value of −100 mV. End plate current was zero at a membrane potential of −15 mV (the reversal potential). This reversal potential was affected by changing external sodium and potassium concentration (becoming more positive with increasing cation concentrations), but it was not affected by changing the chloride concentration. This result suggested that the channel was permeable to sodium and potassium but not to chloride ions. Further studies extended these conclusions, and the channel was found to be permeable to calcium and magnesium and organic cations (but not anions). Indeed, the finding that the channel permeability for divalent cations is an overwhelming obstacle. In some African settings, it may also be highly appropriate in others. It is better to answer those questions with data.

We appreciate the comments from Walker et al. The group in Tanzania is making enormous contributions to our understanding of chronic disease in Africa.

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Department of Preventive Medicine and Epidemiology, Loyola University Medical Center, Maywood, Illinois 60153, USA

Walijnjom Muna  Chief of cardiology
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4 Bormann J, Hamill OP, Sakmann B. Mechanism of anion permeation through channels gated by glycine and gamma-amino butyric acid in mouse cultured spinal neurons. J Physiol (Lond) 1987;385:243-86.

Authors’ reply

Editor—Pandit has drawn attention to the action of acetylcholine and ion channels in relation to the motor end plate. Acetylcholine can result in the opening of chloride channels in other locations, and we acknowledge him for providing a succinct explanation of their relation.1 2

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Paul D Abel  Reader in urology
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Mistaken subdural cannulation can produce Horner’s syndrome

Editor—Minerva showed a photograph of a patient with Horner’s syndrome after a supposed epidural infusion.1 I have seen a similar presentation after insertion of a 4 cm catheter in the lumbar epidural space. Subdural cannulation is said to occur in 0.1-0.8% of all epidurals and is often missed.2 I suspect that this is what happened to Pas’ patient. The risk of rupture of the delicate arachnoid mater resulting in total spinal anaesthesia makes it mandatory to remove and replace the catheter in the epidural space.

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Incorporating patient preferences into clinical trials

Information about patients’ preference must be obtained first

Editor—Torgerson and Sibbald discuss the difficulties of assessing the relative merits of treatments when patients have strong preferences for one of the alternatives.1 In these circumstances, however, patients should not be expected to participate in randomised comparisons, and neither should the professionals caring for them.

It is important to consider the bases of these preferences, particularly as there is a widespread and unsupported belief that new treatments are likely to be superior to existing alternatives.2 For example, it seems that people with diabetes who were being recruited to a randomised comparison of insulin pumps with conventional management were left with the impression that pumps represented an important advance (C Bradley, personal communication). Not surprisingly, therefore, those allocated to pumps were pleased, while those allocated to conventional management were disappointed. Randomisation thus created comparison groups that were incomparable in these psychological characteristics, and this may have had implications for compliance and evaluation of treatment outcome.3

Bradley’s response4 was to propose the partially randomised patient preference design to which Torgerson and Sibbald refer. Unfortunately, this does not help because it cannot distinguish between an effect of preferences and an effect of confounding of preferences with prognostic factors. It is impossible to randomise between sincerely held preferences, measuring their effects reliably requires a more complicated design, which was suggested originally by Rucker5 and recently discussed by McPherson et al.6 In this design, people are randomised between both a randomised comparison or a preference comparison.

Genuine therapeutic effects may, however, be associated with preferences, over and above those related to adherence to treatment. Several blind trials show an advantage associated with adherence to placebo.7 Obtaining hard evidence on possible preference effects is problematic as it is difficult to distinguish reliably between simple therapeutic effects and preference effects mediated through psychological pathways in experiments.

There are thus two areas that need attention. Firstly, there needs to be wider acknowledgement that preferences for treatments should be based on beliefs that are founded on reliable information. This should help to increase the proportion of well informed people who have no strong preferences and would thus be eligible to participate in comparisons between randomised treatments. Secondly, studies are required to enable a rigorous distinction to be made between simple therapeutic effects and preference effects. This means that well accepted biological hypotheses will be needed for adequate recruitment, and a plausible biological model to distinguish the two kinds of effect. As Torgerson and Sibbald suggest, however, the first step is routinely to elicit information about the preferences of well informed patients.

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Iain Chalmers Director UK Cochrane Centre, Oxford OX2 7LG

1 Torgerson DJ, Sibbald B. What is a patient preference trial? BMJ 1998;316:360. (31 January.)


Merits of alternative strategies for incorporating patient preferences into clinical trials must be considered carefully

Editor—In their overview of patient preference trials, Torgerson and Sibbald suggest that, given the potential drawbacks of such designs, research might usefully take the alternative approach of measuring patient preferences within a traditional randomised controlled trials design.7 This would conserve “the advantages of a fully randomised design with the additional benefit of allowing for the interaction between preference and outcome to be assessed.” We used Torgerson and Sibbald’s approach to compare two schedules of routine antenatal visits.8 Our unpublished findings on patient preferences show how such analysis can extend and clarify trial findings.

We stratified our two groups—new style care (6-7 antenatal visits) and traditional care (13 antenatal visits)—by the initial preferences of the women who took part. Within each stratum we compared those allocated to traditional and new style care for one key acceptability outcome (dissatisfaction with the frequency of antenatal visits) and one key outcome relating to psychosocial effectiveness (negative attitude to the fetus). The findings are shown in the table.

Comparison of two groups of women for one key acceptability outcome (dissatisfaction with frequency of antenatal visits) and one key outcome relating to psychosocial effectiveness (negative attitude to fetus)

<table>
<thead>
<tr>
<th>Initial preference</th>
<th>Allocated to traditional care</th>
<th>Allocated to new style care</th>
<th>Odds ratio (95% CI)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>7.4 (29/39)</td>
<td>31.0 (135/435)</td>
<td>5.62 (3.61 to 8.84)</td>
</tr>
<tr>
<td>Traditional care</td>
<td>3.5 (11/317)</td>
<td>7.1 (118/166)</td>
<td>68.39 (33.31 to 149.14)</td>
</tr>
<tr>
<td>New style care</td>
<td>48.9 (170/225)</td>
<td>12.2 (36/304)</td>
<td>3.15 (1.98 to 3.23)</td>
</tr>
</tbody>
</table>

Negative attitude to fetus (mean (SD))

<table>
<thead>
<tr>
<th>Initial preference</th>
<th>Allocated to traditional care</th>
<th>Allocated to new style care</th>
<th>Odds ratio (95% CI)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>6.0 (4.25)</td>
<td>6.8 (4.28)</td>
<td>0.003</td>
</tr>
<tr>
<td>Traditional care</td>
<td>6.3 (4.05)</td>
<td>7.5 (3.83)</td>
<td>0.005</td>
</tr>
<tr>
<td>New style care</td>
<td>5.7 (4.12)</td>
<td>5.8 (3.77)</td>
<td>0.452</td>
</tr>
</tbody>
</table>

* P value for negative attitude to fetus.

Our main overall finding of greater dissatisfaction in the new style group applies only to those who had either an initial preference for traditional care or no initial preference. When women had an initial preference for new style care the effect was in the opposite direction. Similarly, the finding that women in the new style group had a more negative attitude to their fetuses only applies to those who initially preferred traditional care or had no initial preference. This analysis provides information that is relevant for new policies: women with an active preference for fewer visits should not be denied this option because of concern about possible detrimental psychosocial effects.

A partially randomised patient preference design would have yielded similar findings, but at the cost of a substantial increase in sample size. We assumed that all those with an initial preference would have opted for their preferred type of care and that eligible women who declined participation because they did not want to have fewer antenatal visits would have taken part if it had been a preference trial. We calculate that the required overall sample size would have increased from 2830 to 7989. This highlights the need to consider carefully the respective merits of alternative strategies for incorporating patient preferences into clinical trials.

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Authors’ reply

Editor—McPherson and Chalmers are correct that more research is required into the interaction between preferences and outcome. Indeed, the first randomised trial comparing an ordinary randomised trial and a patient preference trial has just been published.9 This trial showed no difference in recruitment and retention rates between the two randomised segments of the trials.

Editors—We thank the respondents for their comments.

1 Torgerson DJ, Sibbald B. What is a patient preference trial? BMJ 1998;316:360. (31 January.)


Potential biases do not affect results of waiting time study

Entorr—Nick Black’s helpful letter raises four potential biases in my study that may affect the conclusion that fundholding reduces waiting times.¹

His first point concerned the accuracy of my database. I have now made random checks of patients’ details at general practices in the catchment areas of all four providers. These confirmed the accuracy of the database.

The second was that if the proportion of patients of fundholders and non-fundholders placed on the elective waiting list differed this could cause contrasts in waiting times. Overall, 61% of non-fundholders’ patients and nearly 60% of fundholders’ were placed on the elective waiting list—a marginal difference. Anyway, individual patients of fundholders still had shorter waits regardless of whether there was proportionally more or less of them than patients of non-fundholders.

The significance of case mix variation is best measured by the final mix of procedures rather than by an age, sex, or diagnosis profile. This is because long waits for specific types of operations may affect waiting time differences if the incidence of those operations is far greater in one population than the other. Analysis by the χ² test for independence shows the mix of procedures to be broadly similar, although in 11 of the 16 cases significant differences occurred between actual and expected activity for a few (at most three) of the 10 most common procedures. In five of these 11, case mix actually increased the waits of fundholders more than non-fundholders. In the other six, increases to the waits of non-fundholders, relative to fundholders, were too marginal to reverse the original results.

The fourth doubt concerned the use of the mean as a measure of waiting time rather than the median. However, the analysis of variance tests used to compute the significance of differences do take account of variances within columns (within the same population) as well as between them. The table shows the median waits. These confirm the results shown by the mean with the exception of Worthing and Southlands in 1995–6. In the other 15 cases patients of fundholders still have appreciably shorter waits. Therefore, my original conclusion that fundholding reduces waiting times seems justified.

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Temporary pacing before permanent pacing should be avoided unless essential

Entorr—Fitchet and Fitzpatrick report a case of air embolism resulting from a poorly sealed temporary pacing wire, but they do not discuss an important point—namely, that insertion of a temporary pacing wire before permanent pacing is hazardous and should be avoided unless essential.² Insertion of a temporary wire in such circumstances combines the risks of central venous access with those of systemic infection while fouling one potential vascular access site.

At Papworth Hospital 15% of patients admitted for permanent pacing are transferred from another hospital with a temporary pacing wire in situ.³ A considerable proportion of these patients develop systemic infection as a result, requiring intravenous antibiotics; permanent pacing then has to be delayed by up to a week (of expensive in-hospital stay).³ Irrespective of this, patients with a temporary wire have a sixfold increased risk of infection of their permanent pacing system.³ This outcome can be associated with a mortality of up to 50% if infected leads are not removed—a procedure that itself has a 2% mortality.

The 71 year old woman in the case reported had bifascicular block and asymptomatic intermittent complete heart block. This arrhythmia does not require temporary pacing, and recognition of this fact would have prevented the unfortunate consequences. Patients are frequently transferred from district hospitals to specialist centres with unnecessary temporary pacing wires.³ We suggest that, if there is doubt, the decision to insert a temporary system before permanent pacing should be made in conjunction with the specialist centre.

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1 Black N. Potential biases were not taken into account in study of waiting times. BMJ 1998;316:119. (10 January.)

1 Fitchett A, Fitzpatrick AP. Central venous air embolism causing pulmonary oedema mimicking left ventricular failure. BMJ 1994;308:1044-5. (21 February)

People at risk of coronary heart disease should not be denied treatment with effective drugs for purely financial reasons

Editor—As soon as effective treatments for coronary heart disease—which causes 30% of deaths in the United Kingdom—became available, evidence based medicine and finance clashed. The Standing Medical Advisory Committee attempted to impose the Sheffield risk tables1 and was condemned for purely financial reasons—just as it would be unethical not to treat those who smoke or are obese.

The report leaves us little further forward in deciding whom we should treat or where the necessary money should come from. Unfortunately its press release and the subsequent media reports convey a negative message to healthcare providers and to those patients who need to have their lipids measured and adequately treated.

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Dilemmas in existing in withdrawing ventilation from dying children

Editor—We agree with Jonathan Gillis about the guidelines of the Royal College of Paediatrics and Child Health on withholding or withdrawing life saving treatment in children.1 However, we are not sure about the need for such a document. Modern treatment has made it possible to prolong life beyond the point where continued treatment is physiologically futile and the benefits of living might be outweighed by the physical and psychological cost of intensive care. The document reinforces the stand point that there should be no ethical difference between withholding and withdrawing treatment, but Gillis points out that in practice there is an emotional difference. His view is supported by our recent survey of 75 consultants in paediatric intensive care in the United Kingdom which documented the uncertainty surrounding these issues.2 Fifty one percent of respondents believed there to be a moral difference between withholding and withdrawing ventilatory support, contrary to current published opinion.3

Our survey focused primarily on how withdrawal was accomplished; 42% of respondents preferred extubation to terminal weaning of mechanical ventilation, with nearly half (49%) using a higher dose of sedative during withdrawal. Although the guidelines allow the use of sedative drugs in increased dose during this process, the primary intention should be to relieve discomfort rather than hasten death. Nine respondents (12%) continued paralytic agents during extubation, presumably to abolish the distress of agonal respiratory efforts, but undeniably speeding the process of death. The college document supports the continuation of paralysis under these circumstances, yet some physicians would consider this practice tantamount to euthanasia.3

In our own practice we recognise that withdrawal should proceed swiftly with the minimum distress to the child and family and that under these circumstances it may be appropriate to extubate dying children under high dose analgesia and sedation. However, it is not current policy in our unit to continue neuromuscular paralysis during the process of withdrawal.

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1 Gillis J. When lifesaving treatment in children is not the answer. BMJ 1997;315:1246-7. (15 November.)
United Kingdom) the general practitioner is offered the option of printing a leaflet to give to the patient about his or her illness in addition to any prescription options.

Printing and issuing a personalised patient leaflet can be almost as quick as printing a prescription. Further studies are required to show the acceptability of this alternative and in which situations their use is most appropriate. Even a small shift towards issuing a "PIL" (patient information leaflet) instead of a prescription for pills will result in considerable savings to the drug budget.

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*The authors are part of the PRODIGY team. TK is also editor of PILS, a widely used database of patient leaflets.

A Greenhalgh T Gill P Pressure to prescribe. BMJ 1997; 315:1482-5. (5 December.)
B Bennett N, Ummons G. The influence of patients' hopes of receiving a prescription on doctors' perceptions and the decision to prescribe: a questionnaire study. BMJ 1997; 315:506-9. (3 December.)
3 MacFarlane JT, Holmes WF, MacFarlane RM. Reducing escalation of the dose and the achievement of a balance between analgesia and the side effects of opioids. BMJ 1997; 315:1331-4. (6 December.)
4 Roland M, Dixon M. Randomised controlled trial of an "PIL" (patient information leaflet) instead of a prescription for pills resulting in considerable savings to the drug budget.

Substitution of another opioid for morphine

Opioid toxicity should be managed initially by decreasing the opioid dose

Editor—We would like to clarify some important points arising from Murray's letter about the substitution of another opioid for morphine being of use in pain control. The first is the description of pain being "relatively resistant to morphine." It is more useful to think of responsiveness to opioids as a continuum; the factors that generally decide the position on the continuum are the side effects of opioids, particularly sedation. Some pains, especially neuropathic pain, require larger doses of opioids, which consequently give rise to more troublesome side effects and thus limit an escalation of the dose and the achievement of adequate analgesia. Opioid toxicity results from an unfavourable balance between analgesia and the side effects of opioids.

While alternative opioids may produce a better overall balance of the safest and most efficient management of opioid toxicity is to reduce the opioid dose in the first instance rather than switch to an alternative opioid. This approach commonly achieves the desired balance between analgesia and side effects.

Murray's comment about ketamine (an N-methyl D-aspartate (NMDA) antagonist) in neuropathic pain is interesting. The NMDA antagonists are promising drugs for the treatment of pain syndromes with the clinical phenomena of central "wind-up" (alldynia, hyperalgesia, hyperpathia). The opioid mechanism does, however, seem to be crucial here also; NMDA antagonists seem to renew the opioid responsiveness in vitro and in the clinical situation.

While alternative opioids to morphine, and the NMDA antagonists, are important as analgesics, we would reinforce a simple, systematic approach to pain control as outlined in the first paper in the ABC series on palliative care. In particular, opioid toxicity should be managed initially by decreasing the opioid dose rather than automatically switching to an alternative opioid.

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1 Murray P. Substitution of another opioid for morphine may be useful for pain control. BMJ 1998;316:792-3. (26 February.)

Methadone can be used to manage neuropathic pain related to cancer

Editor—Murray fails to mention the potential that methadone has for managing neuropathic pain related to cancer, advocating the use of ketamine. Evidence is increasing that hypersensitisation states characteristic of neuropathic pain involve activation of the N-methyl D-aspartate (NMDA) receptor.

Activation of this receptor has a crucial role in the development of tolerance to the analgesic effects of morphine. Treating such patients with drugs with NMDA receptor antagonist properties may attenuate this tolerance. The affinity of methadone for the NMDA receptor is similar to that of ketamine; furthermore, like morphine and unlike ketamine, methadone has a high affinity for the NMDA receptor, where it acts as a full agonist. There are thus theoretical advantages in using a N-methyl D-aspartate (NMDA) receptor antagonist that is similar to morphine in the management of neuropathic pain in cancer patients. We have led us to apply revised guidelines for the use of methadone in cancer pain with a dominant neuropathic component.

The renewed interest in methadone and the emergence of new strong opioids (fentanyl, hydromorphone, and oxycodone) on the United Kingdom market may lead to confusion among health professionals and detract from the optimum use of morphine in the management of chronic cancer pain. Indications for the use of alternatives to morphine require clarification. In our opinion, there are two important indications for choosing alternatives to morphine. One of these is when, during continuous use, intolerable central nervous system side effects develop and reducing the dose has no effect or leads to increased pain. The second indication is when dose limiting side effects of morphine occur, prohibiting an increase in dose and giving rise to inadequate analgesia (despite the use of coanalgescics and techniques appropriate to the pain syndrome).

The reason why opioid substitution is successful in these cases remains unclear. The development of severe central nervous system side effects has been associated with the accumulation of large amounts of the morphine metabolite morphine-3-glucuronide. This has central stimulatory properties with a potency several hundred times that of morphine, and thus a reduction of side effects after the substitution of an opioid without known active metabolites (for example, fentanyl or methadone) is explained. In some patients, pain that is poorly responsive to morphine may arise because of the development of tolerance to morphine. If tolerance to side effects does not develop to the same extent as tolerance to analgesia the escalating dose of morphine may reach a level at which the side effects become dominant.

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1 Murray P. Substitution of another opioid for morphine may be useful for pain control. BMJ 1998;316:792-3. (26 February.)

Consideration of short term consequences of heavier babies is important

Editor—I read with interest the paper by Bonellie and Raab about the increase in birth weight among babies born in Scotland between 1980 and 1992. Various factors were proposed as being responsible for this increase including a reduction in the proportion of induced births, lowered rates of cigarette smoking, and improvements in maternal diet and lifestyle.

During the same period we conducted a prospective study on the predictability of shoulder dystocia, an obstetric complication that is potentially catastrophic for both mother and baby, at the National Maternity Hospital in Dublin. Our results confirmed existing data that the incidence of shoulder dystocia increases as birth weight increases. The overall incidence of shoulder dystocia was 0.6% (66/10 468) but the incidence among babies weighing from 4 to 4.5 kg was 1.9% (35/1790), and among those weighing more than 4.5 kg was 5.8% (25/395). While it was difficult to accurately compare the incidence of shoulder dystocia in 1992 with that from a decade or so earlier, our impression was that the...
incidence was increasing due to an increase in the number of heavier babies.

We therefore compared the incidence of babies weighing > 4 kg and of babies weighing > 4.5 kg in 1979 and 1992. The incidence of babies weighing > 4 kg in 1979 was 12.5% (1143/9159) compared with 19.4% (1226/6293) in 1992, and of babies weighing > 4.5 kg was 9.0% (260/9159) in 1979 and 4% (252/6293) in 1992. This occurred during a time when rates of cigarette smoking and induction of labour were essentially similar.

During labour heavier babies are associated with a higher incidence of dystocia. Apart from the problem of shoulder dystocia, this trend towards a greater number of heavier babies will undoubtedly lead to increased obstetric intervention. There has been a general increase in the rates of caesarean section both in the United Kingdom and Ireland in recent years. While the reasons for this are multifactorial, the increasing birth weight and the greater number of heavier babies are certain to be important factors. While it is interesting to consider the long term implications of rising birth weight on the pattern of adult disease,1 we should first consider the problems that may arise in the shorter term.

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Genetic counselling must be non-directive

Editor—Minerva seems to hold the view that the aim of genetic counselling for parents who have a child with cystic fibrosis is to prevent them having further affected children. She reports that of 42 families, 24 had declined prenatal testing and eight had accepted prenatal diagnosis but had decided not to terminate.

It would be foolhardy to give a reassurance that the BMA’s private practice committee supports the basic principle of private practice mirroring the NHS throughout all private practice, as it was the intention of the NHS that consultant surgeons and anaesthetists become identically qualified to all those in general practice having regard to preoperative assessment, intraoperative management, and postoperative care; if anything, the anaesthetist has greater involvement in the day, as the surgeon has already seen the patient in the outpatient clinic. In private practice the surgeon charges a fee for this consultation.

Many anaesthetists believe that the time has come for a radical overhaul of the fee structure in private practice, so that it rewards appropriately the professional skills of anaesthetists rather than reflecting values of a bygone age. Can Machin give an assurance that the BMA’s private practice committee supports the basic principle of private practice mirroring the NHS throughout all private practice? Can he explain why this principle of equality should not apply to remuneration for similar commitment in the independent sector?

R F Atkinson
Chairman
Independent Practice Committee, Association of Anaesthetists of Great Britain and Ireland, London WC1B 3RA

Editor—The speech that I made in council concerned the attempts made by BUPA to influence consultant referrals by general practitioners and hospital admissions by consultants through the BUPA consultant “partnership” scheme. I was concerned that patients should be treated in a similar fashion in both the NHS and the private sector.

It would be foolhardy to give a reassurance that the BMA’s private practice committee supports the basic principle of private practice mirroring the NHS throughout all private practice, because the two systems are so different that they cannot be compared directly in many areas. Major changes would have to be made to one or both systems to enable us to achieve anything approaching Atkinson’s requirement. The Nuffield Institute for Health, who have summarised the service with additional benefits such as distinction awards and pensions whereas the private sector works on the basis of a fee for an item of service, with the procedure determining the fee, irrespective of whether it is done on a day case or inpatient basis. Would Atkinson be happy with a salaried private sector? Any threat to employ consultants in private hospitals would be greatest to anaesthetists, who provide for all surgical specialties.

Private practice should mirror the NHS

Fee structure for anaesthetists in private practice needs overhaul

Editor—I agree with Machin’s statement that “It is a point of principle that private practice should mirror the NHS.” Equality between consultants has been recognised with identical status and remuneration since the inception of the NHS. The advent of day surgery has resulted in the duties of consultant surgeons and anaesthetists becoming identical with regard to preoperative assessment, intraoperative management, and postoperative care; if anything, the anaesthetist has greater involvement in the day, as the surgeon has already seen the patient in the outpatient clinic. In private practice the surgeon charges a fee for this consultation.

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