The computer will see you now

Research and clinical uses of computerised assessments must be distinguished

The development of inexpensive self-administered computerised assessments means that patients may soon find themselves at a computer terminal before seeing their doctor face to face.1 Doctors in all specialties are faced with this potential revolution in medical practice.

Psychiatrists might have been expected to be among the last to apply an automated method of collecting clinical information, but there are many self administered computerised assessments of psychiatric disorder—and their acceptability and ease of use have been shown convincingly.3,7 They may be completed by unsupervised patients after only brief explanation,2 and unlike pencil and paper questionnaires they avoid redundant inquiry as the presentation of questions depends on previous answers. There are indications that socially undesirable responses are more likely to be divulged—for example, people admit drinking more alcohol to a computer than to a trained interviewer.8

The main concern is whether these automated assessments provide valid measures of mental disorder. Validity is a complex subject, and rather than asking, “Is this test valid?” it is better to ask, “Valid for what?” Research and clinical uses must be distinguished. Lewis et al compared their computerised system with a psychiatric minor psychiatric disorder with a research interview by a psychiatrist, claiming that the measure is probably as valid for some research purposes as current standardised interviews.1 Greist et al have also shown adequate agreement for some psychiatric diagnoses but not for others.7

The research applications of computerised assessments are considerable. There is no observer bias, and data are stored directly on computer disk with savings in labour costs and the tedium of coding results. Computerised assessments should be especially useful to medical researchers who require detailed psychiatric assessments but wish to avoid expensive standardised interviews.

The clinical use of these assessments is more doubtful. seen to be responding to the new consumerism and to the political shift to the right with its suspicion of the professions and their privileges. So evolution must continue; much can be done even without a new parliamentary bill.

Nevertheless, given the present workload of both the members and the staff, has the GMC the time, the resources, or the disinterestedness to do the research and to introduce far reaching changes? There is a strong case for an independent rather than an internal inquiry, and a further factor in its favour would be the likely support from both the profession and the public. Such an inquiry must be set up by doctors: not only does self regulation remain the hallmark of any profession, but doctors, patients, and the community all stand to lose far more than they would gain by the intrusion of, say, the government into the process. And, united as doctors are at present by the discussions on Mr Clarke’s white paper, it would be wise for the whole profession (particularly, for example, the BMA and the conference of medical royal colleges and faculties) to be seen to be setting this up itself as soon as possible, together with representatives of other academic and lay interests.

So far as the GMC is concerned such an inquiry should concentrate on how the mass of problems it has to deal with can be tackled by ordinary practising doctors who are part time members. Urgent reform is surely needed when a dedicated president is spending 30-40 hours a week on what is supposed to take only two days. But the inquiry should not neglect one essential aspect of the GMC: the power of its secretariat. As Hennessey has shown in his recent book on the civil service,2 it is a mistake to hold administrative wings entirely responsible for the ills of larger bodies—secretariats contain loyal, dedicated staff, unable to answer back, who are usually working under great difficulties. Nevertheless, Hennessey quotes Professor David Henderson’s description of the civil service as “ponderous, ritualised, secretive, and highly unreliable in its results.” Smith, who emphasised the difficulties under which the GMC Secretariat was working, was uncertain about how much power resided in the secretariat. Given, however, that all the council members are part time, it is probably considerable, and anyway the office is likely to set the prevailing tone of operations—in particular, the poor communications, both internally and externally.

Hence, several questions need answering. How can one of the principal functions of the GMC—surveillance of undergraduate medical education—be properly served with only three members of staff? Should it be allowed its wish to take over the supervision of postgraduate education? Is there a case for recruiting outside experts to the secretariat at senior levels—for example, in medical education or computing and information systems—as Hennessey recommends for the civil service? Could the system become more human and acceptable to the profession if doctors were taken on as members of the staff, an admirable feature of the defence bodies and the BMA, and recommended for the GMC by the BMA in its evidence to the Merrison inquiry? How can it be ensured that the new press officer is allowed to build up a relation of trust with the media and the public? And how can it be got across to doctors that their subscriptions are well spent, in the interests of the profession and of the public?

The case for action, in the BMJ’s view, is clear. Nevertheless, any altered GMC will be more expensive, entailing higher subscriptions from individual doctors. They should be prepared to pay these, both because the benefits will be correspondingly greater (to doctors and to society) and because they need to keep regulation of the profession where it belongs—with the profession.

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The course of anorexia nervosa

About one in 30 die, and half recover fully after six years

William Gull, the originator of the term anorexia nervosa, thought that the outcome of the syndrome was generally favourable. In contrast, the first systematic follow up studies of 30 years ago produced alarming results: at least 15% of patients died, most had persistent symptoms of eating disorder, and less than a fifth recovered fully. Since then the question of what happens to patients with anorexia has become increasingly clouded—largely because data have been gathered from different clinical settings. Small samples of patients have been used, and follow up has varied in length. But recent data have begun to make things clearer.

Although several studies have reported mortality in anorexia nervosa to be below 5%, deficiencies in their methods (including failure to report standardised mortality ratios) make interpretation difficult. A more comprehensive assessment of 481 patients over 10 years has shown a crude mortality for anorexia nervosa of just over 3%—confirming the recent trend to lower mortality. The standardised mortality ratio for this group showed a sixfold increase, and that for the patients with the lowest weight (<35 kg) a 15-fold increase. The predictors of death were a patient’s lowest reported weight and repeated hospital admissions. Half of those who died killed themselves through overdoses, which challenges the earlier view that death in anorexia nervosa is always a direct consequence of malnutrition. An important finding was that the standardised mortality ratio increased for at least eight years after referral. This is consistent with two smaller long term studies, which showed that deaths in the chronically ill subjects continued at a high rate for 20 years after the initial consultation (R H Ramasuriya et al, unpublished data).

Recent studies found that after a minimum follow up of four years a quarter of patients had persisting severe problems with weight and menstruation; another quarter had improved; and half had fully recovered. Eventually, still more patients recover: a study in Sweden with a long follow up found that a quarter of patients had recovered after three years, half after six years, and three quarters after 12 years, but that recovery thereafter was rare. High rates of depression and psycho-social disturbance have been observed in follow up studies but are difficult to interpret because the studies failed to use standardised assessments or to include comparison populations. Consistent predictors of poor outcome have proved to be elusive, but the lowest weight, the length of illness, older age at onset, and disturbed family relationships seem to be the most constant.

For patients whose weight remains low the course of anorexia nervosa may be further clouded by physical complications. Osteoporosis, perhaps caused by a combination of malnutrition and oestrogen deficiency, tends to reverse with weight gain. But in patients whose weight remains low in the long term the loss of bone seems to be cumulative: patho- logical fractures occur commonly after 10 years. Computed tomography in patients of low weight has shown structural changes to the brain—ventricular and sulcal enlargement. Because weight gain does not reverse the ventricular enlarge-