shown elsewhere that old age, poor survival, DHA of residence, and place of death were all positively associated with DCO registration.1 All the studies Guilleford cites discuss Thames cancer registry as the sampling frame for studies of case notes and all exclude DCO cases from their sample. Our second concern relates to the use of cancer registry data for health services research. National Health Service (NHS) purchasers are now funding registries directly and we consider it essential that the reliability and the validity of registry data be confirmed before these are used as a basis for needs assessment, service outcomes, and provision. Registry data cannot be used when they are inaccurate or incomplete. In a previous paper we have shown that part of the problem lies with the incompleteness of clinical notes,2 and in that paper we chose to focus on quality control within the registry.

Guilleford asks how we assessed the reliability of our own data abstraction. Before beginning work, the two doctors who carried out the abstraction liaised with registry staff to confirm the criteria used when coding date of diagnosis, stage, and treatment. Data were abstracted on each set by the two doctors separately and checked for interobserver bias. Further checks took place at clinical audit meetings with surgeons and pathologists when cases with absent or discordant information was audited. All of this is described in a previous work cited in our paper.

We regret the ambiguity in the abstract which could be taken to mean that the registry had data on treatment for DCO cases. However, the background and methods sections make clear that the registry definition of DCO cases was the one followed in this study. References to disagreements involving DCO cases in the abstract would be better described as disagreements involving DCO cases for which we subsequently retrieved clinical data. DCO cases are important because their exclusion from the sample can bias measurements of treatment and survival. In other papers we have attempted to measure the impact of DCO cases on national survival and the effect of losing them.3 4

In conclusion may we identify what we take to be the strengths of our paper? Our objective was to identify factors in the registration process affecting reliability. We showed error in three areas in which the registry has explicit written policies: the retrospective follow up of DCO cases, six-month active follow up of cases, and the coding criteria for date of diagnosis. The registry has responded positively to this audit and to our recommendations for improving the internal quality of registry data.


Medication errors during hospital drug rounds

In their paper Ridge et al5 set out to find the nature and rate of drugs given in error in one National Health Service (NHS) hospital. It is important to distinguish between the authors' focus, which was errors that occurred at the time of the nurse giving the drug, and prescribing errors that originate with the doctor and already exist on the prescription. Prescribing errors were not examined by the authors as their survey recorded only those errors that could be classed as deviations from the doctor's medication order as written on the patient's chart.2

Although it is important that hospitals do review the effectiveness of their current drug supply and administration systems (as the authors suggest), it is incorrect to support the seriousness of this argument with reference to their incorrect interpretation of coroner's records which concluded that about a fifth of deaths relating to prescribing and giving drugs were due to errors.5

In this review, a total of 3277 deaths came to inquest (3.8% of all deaths in the years 1986-91) and the review of coroner's cases actually identified 46 relevant deaths (due to adverse drug reactions or errors in prescribing or giving drugs). Of these 46, death was attributed to errors in medication in 10 cases, with an even mix of primary and secondary care cases, but of these 10 most were due to prescribing errors with possibly only one death due to a nurse giving a drug in error (and that involved oxygen).

The overall risk of death due to errors or adverse drug actions was judged to be very small — about one in 2000 of all deaths during the study period, and of course, unlike in the paper by Ridge et al, there was no baseline for the number of total events that were potentially adverse — that is, the number of doses of medicines prescribed and given during the six year period.

Preprinted assessment sheet

Goodyear and Lloyd pointed out the advantages of a preprinted assessment sheet, but I would like to point out the danger of implementing this method in the hospital setup, specially for junior doctors in training.

Good history taking in medicine has for generations been the main method of educating medical students and junior doctors. Full evaluation of the history of a patient's complaints is crucial to making a correct diagnosis, and helps in planning the management. Every doctor spends the rest of his or her professional life relearning the lesson. The doctor's first task is to listen and observe, not only to obtain information about the current problem but also to understand the patient as a person and to learn about their life situation.

Symptoms identified by taking a history provide some of the most important items of information used in the process of diagnosing a disease. When patients describe the symptoms for which they are seeking professional attention, they are also reporting the story of an illness as they have lived, and remembered it, and so it can vary. To some extent, symptoms are universal human experience. Virtually every person experiences some discomfort for which he or she is likely to seek help.

Talking with a patient has a third function: it helps that person to feel that he or she is understood, and it thereby helps to establish a therapeutic relation. A style of questioning narrowly shaped for the sole purpose of diagnosing a disease ignores much of what patients have experienced and many of their concerns and questions. It therefore often prevents the development of a trusting relation, and diminishes the chances of helping the patient. Talking with a patient about the experience of being ill, on the other hand, can have great value even when nothing can be done about the disease.5

Collecting information with a preprinted assessment sheet, or computer may be useful and may be the best thing, but is not advisable for young doctors in training. It is the duty of the senior experienced doctors to identify deficiencies in history taking by a junior doctor, and help him or her to rectify the deficiencies and thus become a good clinician.

The disadvantage of a preprinted assessment sheet is that you forget to
think of relevant questions and the sequence of questioning required to arrive at a diagnosis. This may result in the future clinician learning to fill in the blank meticulously, but unable to collect, and analyse data in their brain. This type of “fill in the blank questionnaire” requires no special history taking skill, and may also result in delay in arriving at diagnosis in an emergency situation.

I have come across some junior doctors meticulously trying to take a history with these preprinted sheets, when they should have concentrated on treating the patient. The patient is uncomfortable, and at times very ill, but the doctor starts asking questions, as printed, and fails to recognise the patient’s problem, nor give importance to what the patient wants to say. This makes the patient feel that the doctor is not keen on understanding his current problem, and so loses confidence in the management. The other problem is that when the doctor is taking a history with a preprinted history sheet there is no eye contact with the patient because the doctor is keen on reading the printed questions. This breaks the patient-doctor relation and can be disadvantageous to both doctor and patient. Let us not forget that today’s junior doctors are our physicians and surgeons tomorrow.

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SOFTWARE REVIEW


One aspect of improving quality in health care is using medical and clinical audit effectively to bring about change. Doctors, nurses, and other paramedical groups are increasingly required to spend time auditing their current practices and clinical processes. It is helpful to be able to design a data entry form or questionnaire from which information can be entered on to a computerised database used to sort, categorise, and summarise this information. Many database packages are now available which can be customised to perform these tasks, but they are often difficult to teach to newcomers to computing. The program used in this hospital, Pinpoint for Windows, is ideal for carrying out audit projects.

Pinpoint is a menu driven information collection and analysis package designed with market research and customer surveys in mind, which requires no prior knowledge of programming. The program requires an IBM compatible personal computer (80286 or higher processor, at least 2MB of RAM, and at least 3 MB of free hard disk space) and runs using the Microsoft Windows (version 3.1 onwards) graphical interface with a mouse. It comes with an excellent manual.

The first task – creating a data entry form or questionnaire – is fairly easy as you first decide where to place the question of a blank form and Pinpoint then provides a dialogue box from which the question (or field) can be customised into field type. Field types include: (a) fixed length text, (b) free form text (for example, to record comments, (c) numerical, (d) date, (e) yes/no, (f) multiple choice, and (g) ordered choice.

Once the field type has been chosen Pinpoint automatically provides check boxes for answers. The question and answer areas can be moved around the form and embellished with free standing text, drawing boxes, and lines to make attractive looking data collection forms. Forms can be modified (for example, with an additional question) at any stage, and Pinpoint will automatically update all previously completed answer sheets. This is useful when additional information is requested to be collected during the course of an audit.

Photocopies of the data entry sheet can be used for data collection. The information may then be transformed on to a similar form on the computer (the answer sheet). Pinpoint can be used to analyse the data and present them as summaries or graphs. The data can then be sorted, selections made for subgroup analysis, and categorised (for example, answers from Yes/No or multiple choice questions) and calculations performed. The information can be summarised using descriptive statistics, frequency, and...
Preprinted assessment sheet.

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