The Diploma in Genitourinary Medicine (London Society of Apothecaries)

In 1815, when barbers were surgeons and quacks peddled their ineffective wares to the trusting sick, the Worshipful Society of Apothecaries became the first official body empowered to license medical practitioners. The society still runs a qualifying examination, through the United Examinations Board, and also offers a number of postgraduate diploma examinations such as the ever popular Diploma in the History of Medicine and the recently introduced Diploma in the Medical Care of Catastrophes.

The Diploma in Genitourinary Medicine came about in the early 1970s when several senior venereologists lobbied for a postgraduate qualification to be made available to the specialty and, rebuffed by the Royal College of Physicians, approached the Apothecaries' Society. The first Diplomas in Venereology were awarded in 1974 under the stewardship of Drs Catterall, Dunlop, Fluker, King, and Nicol.

For many years the diploma examination included a clinical section with "long" and "short" cases, a viva voce, an essay paper, and multiple choice questions. This format of examination will be familiar to generations of doctors as the arbitrary nature, and sometimes questionable content, of clinical and viva examinations went unchallenged by the medical profession for many years. As a Liverpool undergraduate in the 1970s, when an appreciable number of syphilitic survivors from a once thriving dockland era were still alive, I remember being drilled on the clinical signs of tabes dorsalis, not because such patients presented frequently for care but because of the likelihood of such a case appearing in medical finals. Later, as a medical registrar tasked with finding suitable cases for final year examinations, I came to appreciate the value of patients with stable health and reliable clinical signs. Later still, after working for some years in genitourinary medicine without seeing a single case of tabes dorsalis present de novo, I was bemused to find myself examining candidates for the Diploma in Genitourinary Medicine on just such a (rather elderly) patient. Plus ça change.

The assessment of medical undergraduates and postgraduates has come under closer scrutiny in recent years, as have the tools available for the task. An assessment should involve comparing a candidate against agreed objective criteria, using methods that are both valid (meaning appropriate and relevant to clinical practice) and reliable (give consistent results regardless of variables such as different examiners). The test methods used should be able to cover large parts of the syllabus, assess higher cognitive functions such as clinical problem solving rather than simple factual recall and, particularly at postgraduate level, assess what a candidate actually does rather than simply knows.

Against these criteria the traditional clinical and viva examinations inevitably attract criticism; both methods test knowledge and, to an extent, the ability to detect or interpret clinical findings but both are of low validity as their content, as in the example given above, may not be relevant to everyday clinical practice. Furthermore, since candidates cannot all be examined on the same clinical problems by the same examiner asking the same questions, it is inevitable that some will experience a more difficult examination than others and so their respective performances cannot be compared fairly. Reliability is further reduced by differences between candidates that are unrelated to their clinical competence; for example, it is likely that personable, self-confident candidates will score more highly than less confident candidates of the same ability because of the personal bias of examiners.

Multiple choice questions (MCQs) also have their problems. Although their results are consistent (any given candidate is likely to perform as well at each attempt) MCQs are usually designed to test factual knowledge rather than clinical problem solving ability. They are also time consuming to set as it is difficult to design good questions that not only lend themselves to yes/no responses but also avoid "cueing" the correct answer. However, MCQs do have the twin advantages of being able to cover as much of the syllabus as is required and being quick and easy to mark. Essay questions which require lengthy written responses often test only factual recall in a narrow range of subjects while their marking is time consuming and can show significant differences between examiners (and even the same examiner re-marking the same paper), thus reducing reliability. However, it is possible for essays to test problem solving and the ability to synthesise, or criticise, an argument and the use of a structured marking scheme can reduce interexaminer discrepancy.

In an attempt to improve the reliability and validity of examinations a number of other methods of assessment have been introduced, with variable success, into a number of medical schools and postgraduate colleges in the United Kingdom and elsewhere. These include such techniques as modified essay questions, extended matching items, patient management problems, and objective structured clinical examinations. None of these assessment methodologies has proved ideal but examiners now have more tools at their disposal and can, if they first define what it is
they wish to assess, select the most appropriate method(s) in order to allow valid and reliable judgments to be made. Often a combination of assessment methods will be preferred and some effort will be required to minimise each of their inherent flaws.

If the Diploma in Genitourinary Medicine is to identify those candidates who have particular expertise in the specialty, what attributes does the examination need to test? A degree of knowledge certainly, not only at the level of factual recall but also an ability to apply that knowledge appropriately in solving clinical problems. The ability to take a sexual history, carry out a competent genital examination, and formulate a management strategy would be minimum requirements. Good communication skills are essential, a high degree of manual dexterity less so. With the relative attributes of a competent clinician in genitourinary medicine in mind, the Diploma in Genitourinary Medicine began a process of change 5 years ago when it was decided to abandon the clinical examination and viva voce for the reasons outlined above. In their place is an objective structured clinical examination (OSCE) which involves all candidates rotating through identical stations, at each of which is a specific task designed to assess a particular clinical skill. The morning section consists of 12 stations, each lasting five minutes and involving such tasks as data interpretation, assessment of x rays or commonly used scans, passing a speculum or doing a pelvic examination on a plastic pelvis, identifying faults in a briefly sketched out clinical or research scenario, explaining the correct use of a condom, or using a microscope to report on a Gram stained slide. Predetermined marking schedules mean that all candidates are examined to the same standard. The afternoon section consists of six stations, each lasting for 10 minutes which allows sufficient time to assess the candidate’s ability to perform relevant clinical examinations, take a sexual history and, most importantly, communicate effectively with patients. The latter two categories of stations use standardised simulated patients (trained actors) and candidates may find themselves asked to counsel a “patient” contemplating an HIV test, discuss the concerns of a pregnant woman experiencing recurrent episodes of genital herpes, advise a healthcare worker who has just suffered a sharps injury, or discuss partner notification with a patient who has just been told they have a chlamydial infection. These interactions are marked by an observing examiner using a predetermined marking schedule which allows the “patient” to contribute a portion of the marks. Again, all candidates rotate through the same stations and so are examined on the same scenarios.

The essay paper, still a part of the examination but under active review, provides an opportunity to assess candidates’ ability to put knowledge and basic principles to creative use. However, the marking of this section of the examination has been radically revised. Each of the four (compulsory) questions now has a model answer prepared which contains a predetermined marking schedule thereby ensuring that each candidate’s response is judged along similar lines and that credit is given for quality rather than quantity. Each question is marked by a different pair of examiners who then average their marks to determine marking schedules which allow the “patient” to contribute a portion of the marks. Again, all candidates rotate through the same stations and so are examined on the same scenarios.

Methodology for research into STI

With the paper by Kevin Fenton et al in this issue of STI (p 84) we reintroduce the series planned to review research methodology as it might apply to research in sexually transmitted infections. The first article by the series editors Judith Stephenson and Abdel Babiker came out last August. Additional articles will cover study size; cohort studies; case-control studies, survey methods; questionnaire design; mathematical modelling, selection of controls; qualitative research; and uses and abuses of geomapping software. We recognise that in addition to the common problems faced by all researchers, those working in STI face problems specific to this field. The series is aimed to help researchers overcome some of these. We invite suggestions for future articles.

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Editorials

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