What about the bleeding time?

With dozens of tests now available to detect bleeding tendencies is the old fashioned bleeding time any more than an old fashioned joke?¹

Despite its age (it was introduced in 1910²) many people believe that the bleeding time is the most reliable indicator of whether a patient's platelets work satisfactorily.³ In a recent survey of British haematologists, Poller *et al* found that 88.5% used the test routinely.⁴ The problem is standardisation. Duke's original method using an earlobe prick is particularly difficult to perform in a standard way.² Only 17% of British haematologists still use it, though some prefer it for children. Its variability may be gauged from the fact that the upper limit of the normal range is regarded by various doctors as anything between 3 and 20 minutes and that the depth of the stab varies from 1 to 5 mm.

The Ivy test, in which stabs or slits are made on the volar surface of the forearm while the capillary pressure is increased by a sphygmomanometer cuff set at 40 mm Hg, was introduced for standardising the bleeding time.⁵ Various modifications have been made to get reproducible results with a relatively narrow normal range in the hope that even mild platelet functional defects might be discovered: these include the use of a template to standardise the skin incision,⁶ of a standard dose of aspirin to stress the platelets,⁷ and of an automated device to make the incision.⁸

Poller *et al* also found considerable variation in the practice of British haematologists, with depth of incision varying from 0.5 to 5 mm and the frequency of blotting of the bleeding point being either every 15 seconds or every 30 seconds.⁴ One encouraging trend towards standardisation was seen in that nearly half used the spring loaded Simplate device and of these 70% used an upper normal limit of between 8.5 and 10.5 minutes. The use of aspirin to stress the test is not popular, and some haematologists do not even take a history of drug intake.

How, then, should the bleeding time be used? Judiciously. Of prime importance when investigating a patient with a bleeding tendency is the history—which must include a drug history. Lind lists 19 drugs which have been reported as prolonging the bleeding time, and doubtless there are more.⁹ Secondly, no patient should have his bleeding time tested without first having had a platelet count. A count of less than $100 \times 10^9/l$ will prolong the bleeding time,⁶ and in severe thrombocytopenia troublesome haemorrhage may occur from the incision. Thirdly, unless the aspirin stressed bleeding time is to be used, no aspirin should have been taken in the previous seven days.

Finally, unless the laboratory concerned is one with great experience, rigid attention to detail, and strict internal standardisation, the method chosen should limit the variables as much as possible. The Simplate device provides this—though there may be legitimate worries, particularly in children, about the small scars that are left.

The bleeding time is extremely helpful in the diagnosis of von Willebrand's disease and as a screening test in a host of primary and secondary disorders of platelet function, well reviewed by Lind.⁹ But it must be performed and interpreted properly. Poller's paper has convinced me that for many haematologists the normal bleeding time is longer than they think.

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Ingrowing toenails

In an ideal health system delivery of care should be prompt, the treatment chosen effective with little prospect of recurrence, at a reasonable financial cost to the community, and with swift return of the patient to full normal activities if possible. These tests should be applicable to patients with common conditions causing a good deal of acute pain and discomfort, leading to loss of time from work or school, and affecting both the hospital and general practitioner services.

Why not, therefore, ask the patient with an ingrowing toenail how he feels about the treatment he has received? The answer is unlikely to be complimentary. It remains a condition with a high recurrence rate, often after multiple operations with much time wasted at outpatient clinics and on waiting lists. The cost to the community of this one simple condition must be astronomical.

Anyone who examines medical undergraduates looks for a simple question that will test whether they are aware of the common conditions—mundane, perhaps, but important nevertheless to the patient—which in future will fill their surgeries and keep returning if not properly managed. Do not ask them about the significance of a raised serum α lipoprotein concentration, but ask instead what they know about toenail problems. The sting in the tail will be whether they think about the conditions which on rare occasions masquerade as an ingrowing toenail—for example, a subungual melanoma—and whether they consider other diseases such as diabetes or peripheral vascular disease which may be missed with distressing results.

Why is the standard of treatment of ingrowing toenails so poor? One possible reason is the mistaken impression that being a simple condition it must have a quick and easy solution. That this is not the case is evident from the very high recurrence rate. The other problem is that its management falls between the two stools of general practice and hospital services. Treatment may be given by the general practitioner and in some cases a form of surgery undertaken. At the hospital end a variety of departments including accident and emergency, orthopaedic, and general surgery may have the patient sent to them, with doctors in each discipline embarking on different treatment policies.

Most of the published work on ingrowing toenails has been concerned with the description of various operative techniques and comparison of one with another, and what emerges is that the methods of management are diverse, and each has its own proponents. The differences are in fact small. What is much more important, however, is that surgeons should recognise the importance (in this as with other conditions) of their following up their patients over a long period of time to evaluate the results of treatment and to refine their technique in the light of this experience.