Letters

Meningitis is common in neurosarcoidosis. The CSF always exhibits lymphocytic pleocytosis, the lowest proportion of lymphocytes reported being 68%. A low glucose level is also usual, the lowest CSF level of glucose reported being 18 mg/dl. In our case, lymphocytes were not predominant and the polymorph reaction was strong, and the level of CSF glucose was the lowest ever reported. Consequently, neurosarcoidosis must be added to the list of aetiologies of meningitis with neutrophilic pleocytosis.

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2 Chapelos C, Zita JM, Pietta JC, et al. Neurosarco-

doidosis: signs, course and treatment in 35 confirmed cases. Medicine 1990; 69: 261-76.
3 Oksanen C, Tuominen M, Seppala J, et al. Neurosarco-

Appraisal of self-learning

Sir,
May I through your columns ask your readers for information about appraisal of self-learning?
As a general practitioner tutor I am well aware that individuals have different learning styles and motivations. I therefore feel that a good part of my task is to ensure that my registrars (trainee) develops the necessary skills and motivation for future self-learning.

Although most of my training is now demand-led I wish to develop skills to monitor the development of self-education in my registrar. Can colleagues direct me to relevant papers and medline fields?

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Prevalence of diabetes in elderly patients with pacemakers

Sir,
Smith et al have discussed coronary heart disease, valvular heart disease, bradycardia and heart failure in the elderly patient. In one study, 82% of pacemaker implants were in patients aged over 65 years. Indications include syncope associated with complete heart block or sinus arrest, symptomatic sick sinus syndrome and symptomatic incomplete atrioventricular block. More debatable is the choice of pacemaker.

Diabetes is a major risk factor for the development of coronary heart disease. Diabetics have increased rates of heart block following a myocardial infarction and right bundle branch block is more common in the diabetic outpatient population. We have assessed whether diabetics aged over 65 are more likely to need permanent cardiac pacemaker insertion. Patients who had undergone permanent pacemaker insertion were identified using hospital activity analysis data and ward admission books and case notes. Data for the reference population was obtained from a previous survey. A total of 942 patients were identified, of whom 11.0% were diabetic. In our control group 8.25% were diabetic. This gave a relative risk of 1.34 (p<0.01), 95% confidence interval 1.25-1.44.

This result is an underestimate of the true relative risk for two reasons: the hospital activity analysis coding for diabetes is not 100% complete and so patients with diabetes were missed. Also, the non-diabetic group undergoing pacing are an unscreened group and it would be expected that some of them will be undiagnosed diabetics. It has been shown that the prevalence of elderly undiagnosed diabetics in the community is 3.3%. The aetiology of this excess risk is uncertain, although it has been suggested that there is a microangiopathic effect. It has also been shown in experimental diabetic animals that there is increased cholinergic sensitivity and this may have an effect on cardiac conduction. The aetiology is likely to be multifactorial and more research is needed to establish the relative contributions of these factors.

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Summary/learning points

- 8-11% of patients undergoing permanent pacemaker insertion may be diabetic

Glucose-6-phosphate dehydrogenase deficiency

Sir,
We read the recent excellent review of glucose-6-phosphate dehydrogenase (G-6-PD) deficiency by Mehta with great interest. Based on experience in Israel, we do not, however, concur with his statement that 'Kernicterus has been described in all population groups'. While G-6-PD deficiency is prevalent among some subsets of Sephardic Jews, neonatal jaundice associated with the condition in this population is milder than that observed in some other countries. In the early 1960s, before the advent of phototherapy, and at the same point in time as reports of kernicterus emanated from Greece, Szeinberg et al were unable to document any cases of kernicterus attributable to this condition. Two subsequent studies demonstrated a high incidence of neonatal jaundice in G-6-PD-deficient neonates, but with a low rate of kernicterus. These neonates were encountered in either of these studies. The overwhelming majority of our cases respond to phototherapy, which we commence when serum bilirubin levels exceed 250 μmol/l.

Clearly, in different population groups, environmental or genetic factors appear to interact with G-6-PD deficiency to either dampen or exacerbate the jaundice. Sephar-
dic Jewish G-6-PD deficient neonates appear to be at an advantage in this respect, over their counterparts in other ethnic groups.

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Gallstone ileus: an old role for abdominal 'hand' scanning

Sir,
I was surprised that the 69-year-old patient reported by Seal and colleagues spent 14 days undergoing investigations before eventual surgery for gallstone ileus, and was in hospital for all of 10 weeks. Her extensive investigation included abdominal ultrasono-
graphy, double contrast upper gastrointestinal, endoscopy and bone scintigraphy. CT scan yielded the correct diagnosis. Although this makes an interesting case report it illustrates how excessive reliance on investigations may sometimes fail to advance the diagnosis, incur needless costs, prolong hospital stay and delay definitive treatment. The diagnosis could have been made earlier by timely application of the 'hand' scan.

Features of small bowel obstruction associated with a palpable mass in the right iliac fossa in an elderly patient with anaemia and weight loss is sufficient indication for laparotomy as soon as the patient is deemed fit for surgery. Further investigation is unlikely.