To resuscitate or not?

Sir,

Potter and colleagues suggest that elderly hospital patients should routinely be asked their opinions about cardiopulmonary resuscitation, 1 but this is often unnecessary from an ethical viewpoint, 2 and might even be unwelcome to patients. 3

It may be appropriate to discuss cardiopulmonary resuscitation with patients where there is a reasonable chance that it will be successful, although many patients are excluded from resuscitation because the chances of survival are so poor that it is considered futile. Ethicists agree that doctors can legitimately make Do Not Resuscitate decisions in these patients without the need to obtain consent. 4 We have calculated morbidity scores, which have been shown to predict failure to survive cardiopulmonary resuscitation, 5 for all our acute elderly inpatients, and have found that 30% of them were predicted not to survive by two separate scores (unpublished data). Discussing cardiopulmonary resuscitation with these patients seems unnecessary, and possibly counterproductive.

Potter and colleagues state that they gave patients a layman’s explanation of cardiopulmonary resuscitation, without trying to predict the outcome for individuals, and found that almost all patients wanted resuscitation for themselves. Their results are in contrast with those of Murphy and colleagues, 6 who found that very few elderly patients wanted cardiopulmonary resuscitation after they had been given a detailed explanation of their chances of surviving. Information on outcome is important in any discussion about treatment, especially when, as in the case of cardiopulmonary resuscitation, the success rate is low. Perhaps Potter’s patients were inadvertently led to believe that cardiopulmonary resuscitation was nearly always successful whereas, of course, it is usually unsuccessful.

Even when it is appropriate to involve patients in these decisions, some may not want to participate, and others may misunderstand what is being discussed. The Vice-President of the Patients’ Association has been quoted in the national press as saying that a policy of discussing cardiopulmonary resuscitation with all elderly patients might be cruel or intrusive. 7 Heller and colleagues implemented such a policy, but found that a patient’s relative took exception to the practice, and they were misrepresented by the local media as running a covert euthanasia policy. 8 They suggest that others proceed with caution before embarking on such policies.

If ethical guidelines 9 for making decisions not to resuscitate are followed then it is likely that only a minority of elderly patients will become involved in discussing cardiopulmonary resuscitation. Nearly half of Potter’s patients (and 37% of ours, unpublished data) would be excluded because of cognitive impairment, and perhaps another third because of futility. We would expect that there will be many doctors who would not wish to discuss the issue, would be too ill to discuss it, or in whom a senior clinician felt that discussion would be detrimental to their wellbeing.

This is an acceptable ethical position. 2 When discussions about cardiopulmonary resuscitation do take place, patients should be given realistic information about likely outcome, so as to make them a truly informed decision.

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Learning points

• many elderly patients may have Do Not Resuscitate decisions made on the basis of futility. Doctors do not need to discuss these decisions
• if resuscitation is discussed with patients then they should be given realistic information about their chances of survival; this may affect their preferences
• patients may not want to discuss resuscitation, or may misunderstand what is being proposed
• many elderly patients will be unable to discuss resuscitation because of cognitive impairment

A 43-year-old woman presented to our department three months following delivery of a healthy baby at full term. She had had a spontaneous vaginal delivery but there was an interval of 60 hours between rupture of the membranes and delivery. Pain had started in the left groin three days after delivery. At presentation all movements of the left hip were severely limited by pain, she was apyretical. Investigations were as follows: Hb 7.9 g/dl, platelets 463 × 10^9/L, WBC 9.8 × 10^9/L (50% neutrophils), ESR 128 mm/h. Pelvic X-ray showed the left joint space to be reduced with some erosion of the superior acetabulum (see figure). The symphysis was also disrupted, presumably as a result of relaxation at the time of pregnancy followed by abnormal weight bearing.

The joint was aspirated under ultrasound control followed by arthroscopy and irrigation. A group B, ß-haemolytic streptococcus which was penicillin sensitive was identified. Following surgical drainage and six weeks of antibiotics the patient’s general health improved and the ESR returned to normal.

Group A streptococci (e.g. Streptococcus pyogenes) were responsible for puerperal sepsis which was widespread during the middle of the last century. Now group B streptococci are recognised as important causes of neonatal and obstetric infections. 10 Group B streptococci are common commensals of the vagina in postpartum women and in those who have experienced prolonged rupture of the membranes (greater than 12 hours) colo- nisation exceeds 80%. 11 Following prolonged rupture of the membranes the incidence of neonatal infection and maternal morbidity (fever, urinary infection, endometritis) increase. 12

Septic infections of the knee 13 and sacroiliac joints have also been described following pregnancy, the bacterial route of spread is likely to be haematogenous. The internal iliac veins are valveless and during episodes of raised intra-abdominal pressure, such as occurs in labour, blood is forced through the internal vertebral plexus of Batson. This route is via the lateral sacral veins and may explain the involvement of the sacroiliac joints in pregnancy. The vessels of the ligamentum teres drain into the obturator system and it is possible that the hip joint is also involved in this retrograde flow.

Figure Pelvic X-ray three months after the onset of symptoms

Septic arthritis of the hip complicating pregnancy

Sir,

Septic arthritis of the hip joint in adults is uncommon. Patients often have predisposing factors and there is often a primary source of infection. 14 We have recently seen a patient with a group B streptococcal septic arthritis of the hip; it is rare to find this organism infecting a joint. The hip and sacroiliac joints seem to be particularly at risk from postnatal sepsis. Because of the variety of organisms and their differing antibiotic sensitivities a bacterial diagnosis should always be sought to ensure effective treatment.
Organisms isolated from septic joints in pregnancy include *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Mycoplasma hominis* and our case of group B streptococcus.

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**Summary points**

- septic arthritis in an adult often has a predisposing factor
- group B streptococcal septic arthritis in a woman should raise the possibility of a genitaliourinary source

**Causes of diarrhoea in patients with hypogammaglobulinaemia**

**Sir,**

Giardiasis is considered the commonest identifiable cause for diarrhoea in patients with hypogammaglobulinaemia.1 2 We recently reviewed the records of the patients with hypogammaglobulinaemia and diarrhoea treated at our institution during the past 12 years and the results did not conform with this widely accepted notion.

Eight adult patients (six males, two females; ages ranging from 18 to 54 years) presenting with hypogammaglobulinaemia and diarrhoea were evaluated between 1982 and 1993 at the Gastroenterology Section of the Hospital das Clinicas de Ribeirão Preto (São Paulo, Brazil). The relevant data are summarised in the table.

**Giardia lamblia** was the unique pathogen detected in four patients. Although a seven-day course of metronidazole caused disappearance of *G lamblia* from the stools and/or duodenal aspirate in all four, clinical response to treatment was seen in only two of them. Patient 8, a 54-year-old man, presented with a two-year history of chronic diarrhoea and a 20-kg weight loss. *Isospora belli* cysts were found in a stool sample, but results of culture and parasitic studies for bacteria and other common pathogens, including *G lamblia*, were negative. Relevant results of further investigations were: low serum immunoglobulin levels (IgG 310 mg/dl, IgA 20 mg/dl, and IgM 32 mg/dl), high faecal fat (19 g/24 h), and radiologic evidence of malabsorption. Oral trimetoprim-sulfamethoxazole (140 mg/day), was started and resulted in resolution of diarrhoea within 48 hours, leading us to maintain the treatment for 30 days. Stool examination on days 7, 8, and 20 of therapy revealed cysts of *G lamblia* but was negative for other pathogens. Taking into account the improvement of the patient and with his consent, *G lamblia* treatment was not immediately given. On day 45, when the patient had gained 13 kg and was asymptomatic, a seven-day course of metronidazole, 1.5 g/day, was given with no apparent effect.

*G lamblia* was not detected in three patients; two of them had other pathogens detected in stool samples and had good clinical responses to treatment. Although our findings are consistent with the notion that *G lamblia* infection is commonly associated with hypogammaglobulinaemia,3 4 they indicate that giardiasis may be innocuous for hypogammaglobulinaemic patients with diarrhoea, and the diarrhoea may be related to pathogens other than *G lamblia*. As a corollary, the search for potential causes of diarrhoea in hypogammaglobulinaemic patients should not cease if *G lamblia* is found in the stools. This notion is particularly important when evaluating patients living in poor sanitary conditions, thereby at an augmented risk of infection by several pathogens.

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**Table**

<table>
<thead>
<tr>
<th>Patient no</th>
<th>Characteristics of the diarrhoea</th>
<th>Identified pathogen</th>
<th>Treatment</th>
<th>Clinical response to treatment</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>intermittent, moderately severe</td>
<td><em>G lamblia</em></td>
<td>metronidazole</td>
<td>none</td>
</tr>
<tr>
<td>2</td>
<td>steady, moderately severe</td>
<td><em>G lamblia</em></td>
<td>metronidazole</td>
<td>complete</td>
</tr>
<tr>
<td>3</td>
<td>steady, watery, severe</td>
<td><em>S stercoralis</em></td>
<td>cabendazole</td>
<td>complete</td>
</tr>
<tr>
<td>4</td>
<td>steady, steatorrhea, severe</td>
<td><em>E coli</em> (in jejunal aspirate)</td>
<td>tetracycline</td>
<td>partial</td>
</tr>
<tr>
<td>5</td>
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<td><em>G lamblia</em></td>
<td>metronidazole</td>
<td>complete</td>
</tr>
<tr>
<td>6</td>
<td>steady, watery, moderately severe</td>
<td><em>Shigella flexneri</em> (in stools)</td>
<td>trimetoprim-sulfamethoxazole</td>
<td>none</td>
</tr>
<tr>
<td>7</td>
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<td><em>G lamblia</em></td>
<td>trimetoprim-sulfamethoxazole</td>
<td>complete</td>
</tr>
<tr>
<td>8</td>
<td>steady, severe, steatorrhea</td>
<td><em>Isospora belli + G lamblia</em></td>
<td>trimetoprim-sulfamethoxazole</td>
<td>complete</td>
</tr>
</tbody>
</table>

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**Polyorchidism: causation and management**

**Sir,**

Polyorchidism is a uncommon condition with only 90 cases having been reported in the accessible literature since 1670.1 4 It is an anomaly which should be considered when assessing scrotal masses.

**Case report**

A 34-year-old man presented because of increased frequency and severity of the left scrotal discomfort he had been having for many years. Two smooth swellings had been noted on the left side 20 years previously, one of which was thought to be an encysted hydrocele of the cord. On this occasion two discrete smooth non-transilluminating masses were felt in the left scrotum and polyorchidism was diagnosed. At operation two small but normal looking testes were found on the left side (figure). The large upper and smaller lower testes shared a common epididymis. A single vas arose from the epididymis near the lower testis. Each testis had a separate blood supply. Biopsy of the testes showed normal spermatogenesis. The testes were fixed to each other and the tunica. At follow-up six months later the patient had had no further pain.

**Comment**

Embryologically, polyorchidism, or testicular duplication, is thought to result from transverse division of the urogenital ridge between the fourth and sixth week. The mesonephric tubules and duct are not involved, which explains the most common form of duplication in which there are two testes, a common epididymis and single vas, as in the case reported here. Complete duplication of testes, vasa and blood supply is extremely rare and is thought to be due to longitudinal division of the genital ridge and associated mesonephric tubules.1 3 Most patients present with a mass which may or may not be causing pain. Polyorchidism is rare but can be diagnosed clinically and differentiated from cysts, lipomata, and tumours. The diagnosis can be confirmed by ultrasonography.1 3 The commonest associated abnormalities are maldescent (15-50%), which can affect either or both testes, and inguinal hernia (30%).1 3 Torsion has occurred in 15% of reported cases and

**Figure** Operative photograph showing the larger upper testis connected to the smaller lower testis by the common epididymis. The single vas is marked by the steel pointer.
Septic arthritis of the hip complicating pregnancy.

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