Acidic colonic microclimate

Sir,—We read with interest the article of H Vogelsang et al in the January issue (Gut 1988; 29: 21–6). We wonder, however, if the statistical results in Table 2 are correct. The authors state that the H₂ production expressed as AUC-H₂ (area under the curve of H₂) after 20 g lactulose intake after three days of pretreatment with lactulose, is significantly less (p<0.05) than the AUC-H₂ after intake of 20 g lactulose before lactulose pretreatment.

After recalculating their figures which are given as mean (SEM), we find a value of 8523 (4355) (mean (SD)) before, and 5414 (5037) (mean (SD)) after three days' lactulose intake. As the authors mention that they used the unpaired two-tailed Student's t test for their statistical analysis, the pooled SD has to be calculated, which is 4708. With these values we find for T a value of 1.23, which corresponds with a p value of 0.24.

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Reply

Sir,—Thank you very much for your critical reading of our paper. Your calculations concerning the statistical analysis of change of AUC-H₂ after lactulose treatment are right. We have to apologise for our mistake which originated from a false asterisk written down during repeated corrections. The data—calculated on the computer—we were, of course, correct and there was also a tendency of lower AUC-H₂ after lactulose treatment running parallel to the change of max-H₂, but was not significant because of the relative high variance of changes of AUC-H₂. Therefore we failed to recognise this false asterisk being seemingly logical at this position.

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Antibiotic prophylaxis for endoscopic sphincterotomy

Sir,—I wish to draw attention to the importance of making the correct choice of prophylactic antibiotic for endoscopic sphincterotomy (ES).

The Leicester series by Davidson et al (Gut 1988; 29: 114–20) reports significantly higher mortality and complications in comparison with the series reported by Martin and Tweedle from Manchester. In the Manchester ES series of 81 patients reported, none had septic complications and the only death was from haemorrhage. In the Leicester ES series of 106 patients reported, 19.5% had septic complications, and four of the five deaths related to ES were caused by septicaemia. Pre-existing cholangitis, however, was not statistically significant between the two series.

Gregg et al have shown that 14 (70%) of 20 patients developed infected bile after ES even though all the patients had sterile bile previously. The predominant species were E coli, enterococcus, Proteus mirabilis and Klebsiella. Pseudomonas introduction into the gall bladder bile after ES has been reported by Neoptolomos et al.

In the Manchester ES series, mezlocillin 2 g IV was used as prophylaxis except where antibiotic treatment had already been instituted for the treatment of cholangitis. Although not stated in the article, the authors from Leicester have used cephalozolin 1 g IM as prophylaxis in a larger series over the same period reported previously. Although both are broad spectrum antibiotics, pseudomonas is sensitive to mezlocillin but resistant to cephalozolin.

Did the authors use cephalozolin IM as prophylaxis in the series reported? If so, the higher mortality and complications found in their series could be attributable to this difference in choice and route of administration of the prophylactic antibiotic.

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References

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