



Figure Responses of jejunal biopsies from control (○) and CF (●) children to 5 mM BaCl<sub>2</sub>. The SCC for each tissue is shown before the addition of BaCl<sub>2</sub> and at the peak of the response. The mean (1 SE of the mean) was 12.5 (3.6) (6) μA/cm<sup>2</sup> for control biopsies and 10.5 (3.1) (4) μA/cm<sup>2</sup> for CF biopsies ( $p > 0.05$ ).

ted by jejunal biopsies from CF children (Figure), an effect that was not significantly different from the response obtained in biopsies from a control group.

It therefore appears that the increased SCC across CF jejunum induced by A23187 is unlikely to result from the opening of basolateral K<sup>+</sup> channels alone, but could represent a Cl<sup>-</sup> secretory response brought about by the elevation of intracellular Ca<sup>2+</sup>. Patch clamp analysis of the luminal membranes of enterocytes affected by CF would provide a more definitive answer to this problem.

J HARDCASTLE, P T HARDCASTLE, J GOLDHILL,  
C J TAYLOR, AND P S BAXTER

Department of Biomedical Science,  
The University,  
Sheffield S10 2TN, and  
Department of Paediatrics,  
Children's Hospital,  
Sheffield S10 2TH.

#### References

- Giraldez F, Sepúlveda FV, Sheppard DN. An outward rectifying Cl<sup>-</sup>-selective channel in isolated Necturus enterocytes. *J Physiol* 1988 (In press).
- Welsh MJ, Liedtke CM. Chloride and potassium channels in cystic fibrosis airway epithelia. *Nature* 1986; **322**: 467–70.
- Frizzell RA, Rechkemmer G, Shoemaker RL. Altered regulation of airway epithelial cell chloride channels in cystic fibrosis. *Science* 1986; **233**: 558–60.
- Boucher RC, Cotton CU, Gatzky JT, Knowles MR, Yankaskas JR. Evidence for reduced Cl<sup>-</sup> and increased Na<sup>+</sup> permeability in cystic fibrosis human primary cell cultures. *J Physiol* 1988; **405**: 77–103.
- Hardcastle J, Hardcastle PT. The involvement of basolateral potassium channels in the intestinal response to secretagogues in the rat. *J Physiol* 1986; **379**: 331–45.
- Taylor CJ, Baxter PS, Hardcastle J, Hardcastle PT. Failure to induce secretion in jejunal biopsies from children with cystic fibrosis. *Gut* 1988; **29**: 957–62.
- Hardcastle J, Hardcastle PT, Noble JM. The effect of barium chloride on intestinal secretion in the rat. *J Physiol* 1983; **344**: 69–80.
- Hardcastle J, Hardcastle PT, Noble JM. The secretory action of barium chloride in rat colon. *J Physiol* 1985; **361**: 19–33.

## News

### International Bilirubin Workshop

This workshop will be held in Trieste, Italy, 6–8 April, 1989. For inquiries and registration forms contact either of the Directors: Claudio Tiribelli, MD, Istituto Patologia Medica, University of Trieste, 34100 Trieste, Italy. Tel: (40)-776-4525, Fax: (40)-910-690; or J Donald Ostrow, MD, V.A. Lakeside Medical Center, 333 East Huron Street, Chicago, IL 60611, USA. Tel: (312)-943-6600, Ext 358, Fax: (312)-908-0365.

### 31st International Congress of Physiological Sciences

Will be held in Helsinki, Finland, on 7–14 July, 1989. Information from The Congress Secretariat, PO Box 722, SF-00101 Helsinki, Finland. (Telefax: 358-0-611 188).

### Correction

**24 h Intra-gastric acidity and plasma gastrin concentration . . .** Lanzon-Miller *et al.* October 1988 issue pp 1364-9. The fourth column in Figures 3 and 4 should be correctly labelled ranitidine 300 mg.