

## Editorial Committee

WILFRID CARD  
EDWARD R. CULLINAN  
SIR CHARLES DODDS  
HENRY T. HOWAT  
THOMAS HUNT  
ANDREW W. KAY

H. A. MAGNUS  
C. NAUNTON MORGAN  
HAROLD RODGERS  
S. COCHRANE SHANKS  
NORMAN C. TANNER  
GEOFFREY WATKINSON

EDITOR *British Medical Journal*  
HAROLD C. EDWARDS (*Editor*)

F. AVERY JONES (*Editorial Secretary*)

## Notice to Contributors

The object of *Gut* is to publish original papers and reviews concerned with practice and research in the field of gastroenterology. The field is that of alimentary, hepatic, or pancreatic disease, and papers may cover the medical, surgical, radiological, or historical aspects. They may also deal with the basic sciences concerned with the alimentary tract, including experimental work. The report of a single case will be accepted only if it is of sufficient interest in relation to a wider field of research.

There will be a section devoted to short papers on laboratory and surgical techniques and methods of investigation where these are not part of a larger survey.

**COMMUNICATIONS** Papers should be addressed to the Editorial Secretary, *Gut*, Central Middlesex Hospital, Park Royal, London, N.W.10. Papers are accepted only on the understanding that they are not published elsewhere without previous sanction of the Editorial Board. They should be in double-spaced typewriting on one side of the paper only. On the paper the name of the author should appear with initials (or distinguishing Christian name) only, and the name and address of the hospital or laboratory where the work was performed. A definition of the position held by each of the authors in the hospital or laboratory should be stated in a covering letter to the Editor. Communications should be kept short, and illustrations should be included when necessary; coloured illustrations are allowed only if monochrome will not satisfactorily demonstrate the condition. It is not desirable that results should be shown both as tables and graphs.

**ILLUSTRATIONS** Diagrams should be drawn in Indian ink on white paper, Bristol board, or blue-squared paper. Diagrams should be twice the size of the finished block. The legends for illustrations should be typed on a separate

sheet and numbered to conform with the relevant illustrations. Photographs and photomicrographs should be on glossy paper, unmounted. Indications of the authors' limits on reduction should be clearly stated. TABLES should not be included in the body of the text, but should be typed on a separate sheet. The approximate position of the table should be indicated in the text.

**ABBREVIATIONS** In general, symbols and abbreviations should be those used by British Chemical and Physiological Abstracts. In particular, g. and mg. (not grms. or mgms.) are abbreviations for grammes and milligrammes, and ml. (not c.cm.) is the unit of volume. In any paper concerning electrolyte metabolism, it is desirable that data be calculated as mEq./l. as well as (or alternatively to) mg./100 ml.

**REFERENCES** These should be made by inserting the name of author followed by year of publication in brackets. At the end of the paper, references should be arranged in alphabetical order of author's name. Such references should give author's name, followed by initials and year of publication in brackets, *the title of the article quoted*, the name of the journal in which the article appeared, the volume number in arabic numerals, followed by numbers of first and last pages of article. Abbreviations are according to *World Medical Periodicals* (published by B.M.A. for World Medical Association), thus: Chandler, G. N., Cameron, A. D., Nunn, A. H., and Street, D. F. (1960). Early investigations of haematemesis. *Gut*, 1, 6-13.

**REPRINTS** Fifty reprints will be supplied free of charge. Further reprints will be available on payment of the necessary costs; an indication of the number of reprints required should be sent to the Publishing Manager on the post-card provided with the proofs.

# Contents

## No. 1 MARCH 1962

	<i>Page</i>
Mechanisms protecting against gastro-oesophageal reflux: a review MICHAEL ATKINSON.....	1
A study with the electron microscope of the jejunal epithelium in primary malabsorptive disease D. J. C. SHEARMAN, R. H. GIRDWOOD, A. WYNN WILLIAMS, and I. W. DELAMORE.....	16
The arrest of intestinal epithelial 'turnover' by the use of $x$ -irradiation G. WIERNIK, R. G. SHORTER, and B. CREAMER.....	26
The results of exfoliative cytology studies in 50 patients with symptoms of large bowel disorder J. I. BURN and R. A. SELLWOOD.....	32
Medical management of chronic gastric ulcer DAVID FERRIMAN.....	38
Excretion of formimino-glutamic acid in steatorrhoea J. P. KNOWLES.....	42
The diagnosis of primary tumours of the duodenum T. H. CRAWFORD BARCLAY and H. P. KENT....	49
The late prognosis of perforated duodenal ulcer A. C. B. DEAN, C. G. CLARK, and A. H. SINCLAIR-GIEBEN	60
A comparison of a series of newer anticholinergic agents with atropine as regards their effect on saliva flow and gastric secretion in man D. W. PIPER and MIRJAM C. STIEL.....	65
The effect of <i>E. coli</i> on the absorption of vitamin B <sub>12</sub> C. C. BOOTH and JANET HEATH.....	70
Serum studies in man after administration of vitamin A acetate and vitamin A alcohol II <i>In subjects suffering from disturbances of absorption and digestion</i> OLIVER FITZGERALD, JAMES J. FENNELLY, and DANIEL J. HINGERTY.....	74
The influence of sex and age on appendicitis in children and young adults J. A. H. LEE.....	80
The treatment of constipation in mental hospitals L. R. C. HAWARD and H. E. HUGHES-ROBERTS.....	85
Colonic irritability due to a mercurial bacteriostat in retention enemata S. G. FLAVELL MATTS, J. H. BARON, A. M. CONNELL, and J. E. LENNARD-JONES.....	91
The annual meeting of the British Society of Gastroenterology.....	93

## No. 2 JUNE 1962

	<i>Page</i>
Selective surgery for peptic ulcer: a review IAN M. ORR.....	97
Peptic ulcer in hospital: An analysis of a 10% in-patient enquiry throughout England and Wales H. DAINTREE JOHNSON.....	106
Ribonucleic acid and protein metabolism in the gut R. G. SHORTER and B. CREAMER	
Part I <i>Observations in gastro-intestinal cells with rapid turnover</i> .....	118
Part II <i>Observations in the fixed secretory cells of the gut</i> .....	125
An experimental study of gastric cancer in relation to gastric ulcer R. STEIN-WERBLOWSKY.....	129
Pancreatic heterotopia as a cause of dyspepsia R. D. TONKIN, T. E. FIELD, and P. R. WYKES.....	135
Redundant colon as a cause of constipation PEKKA BRUMMER, PENTTI SEPPÄLÄ, and UNO WEGELIUS..	140
Idiopathic steatorrhoea with intestinal pseudo-obstruction H. A. MCCLELLAND, M. J. LEWIS, and J. M. NAISH.....	142
Subcutaneous fat necrosis, 'polyarthritis', and pancreatic disease P. F. LUCAS and T. K. OWEN.....	146
The blood volume and plasma protein levels before and after gastrectomy ALEXANDER SWAN, GEOFFREY T. ALLEN, and NORMAN C. TANNER.....	149
Gastric secretion in relation to subsequent duodenal ulcer and familial history J. H. BARON.....	158
The use of the colon as a substitute for the oesophagus P. J. CHRYSOPATHIS, and B. GOLEMATIS....	162
Peripheral ligation of the hepatic artery during surgery in non-cirrhotic patients M. ANDREASSEN, J. LINDENBERG, and K. WINKLER.....	167
Extracorporeal methods of reducing high blood ammonia levels H. D. RITCHIE, D. M. DAVIES, J. M. GODFREY, P. FAN, R. G. S. JOHNS, and J. PERRIN.....	172
The effect of anticholinergic drugs on the mucus content of gastric juice D. W. PIPER, MIRJAM C. STIEL, and BARBARA FENTON.....	177
<i>Methods and techniques</i>	
Telemetering from within the body using a pressure-sensitive radio pill B. W. WATSON, B. ROSS, and A. W. KAY.....	181
Measurement of gastrointestinal transit using radioactive chromium J. HANSKY and A. M. CONNELL..	187

The pathology of chronic oesophagitis	ROBERT J. SANDRY	189
Observations on idiopathic proctitis	J. E. LENNARD-JONES, G. W. COOPER, A. C. NEWELL, C. W. E. WILSON, and F. AVERY JONES	201
A double blind controlled trial of prednisolone-21-phosphate suppositories in the treatment of idiopathic proctitis	J. E. LENNARD-JONES, J. H. BARON, A. M. CONNELL, and F. AVERY JONES	207
The augmented histamine test in the differential diagnosis between ulcer and cancer of the stomach	KAJ FISCHERMANN and K. H. KØSTER	211
Fluid and electrolyte disturbances in patients with long-established ileostomies	N. D. GALLAGHER, D. D. HARRISON, and A. P. SKYRING	219
The case for total gastrectomy in multiple polyposis of the stomach	R. A. ROXBURGH	224
Intestinal reticulosis as a complication of idiopathic steatorrhoea	K. R. GOUGH, A. E. READ, and J. M. NAISH	232
Urinary xylose excretion in steatorrhoea	MARGOT SHINER, B. J. VAKIL, and PAMELA B. WILCOX	240
The results of operation in 46 cases of malformation of the anus and rectum	VALENTINE A. J. SWAIN and S. M. TUCKER	245
Chronic painless pancreatitis	S. J. M. GOULSTON and N. D. GALLAGHER	252
The gastric secretion of pepsin in man	I. E. GILLESPIE and D. J. BOWEN	255
The role of seromucoid estimations in the investigation of haematemesis	EWAN CAMERON, ALLAN CAMPBELL, and WILLIAM PLENDERLEITH	260
Studies on the stability of vitamin A in the stomach and small intestine	OLIVER FITZGERALD, JAMES J. FENNELLY, and DANIEL J. HINGERTY	264
Interstitial emphysema of the caecum	J. J. KAY-BUTLER	267
An incomplete form of acanthosis nigricans	I. B. SNEDDON and J. B. M. ROBERTS	269
A new direct-vision biopsy gastroscope	Ch. DEBRAY, P. HOUSSET, Et MARTIN, J. P. BOURDAIS, and C. L. NICOLAIDIS	273

Immunological reactions in gastrointestinal disease: a review	K. B. TAYLOR and S. C. TRUELOVE	277	
Larval granulomata in the liver	R. A. B. DRURY	289	
Dynamics of the mucosa of the small intestine in idiopathic steatorrhoea	B. CREAMER	295	
Faecal stasis in proctocolitis	J. E. LENNARD-JONES, M. J. S. LANGMAN, and F. AVERY JONES	301	
The management of fulminant ulcerative colitis	N. D. GALLAGHER, S. J. M. GOULSTON, N. WYNDHAM, and SIR WILLIAM MORROW	306	
Betamethasone enemata in ulcerative colitis	S. G. FLAVELL MATTS	312	
On the site of absorption of fat from the human small intestine	BENGT BORGSTRÖM, ARNE DAHLQVIST, and GÖRAN LUNDH	315	
Factors influencing the bromsulphalein retention and its evaluation in bilharzial hepatic fibrosis	H. S. BADAWI, A. M. NOMEIR, and R. A. ZAHER	318	
Carcinoma in the gastric remnant after partial gastrectomy for benign ulceration	<i>A study of three cases illustrating the diagnostic contribution of exfoliative cytology</i>	D. D. GIBBS	322
17-Ketosteroid and 17-hydroxycorticosteroid excretion in patients with duodenal ulceration	A. G. GREEN and C. N. PULVERTAFT	327	
The use of the d-xylose excretion test in children	PETER A. CLARK	333	
The role of the pancreas in gastric secretion	B. N. CATCHPOLE	336	
The motility of the pelvic colon	Part II <i>Paradoxical motility in diarrhoea and constipation</i>	ALASTAIR M. CONNELL	342
The electrophoresis of human gastric juice	D. W. PIPER, MIRJAM C. STIEL, and JANET E. BUILDER	349	
Part I <i>In normal controls</i>		349	
Part II <i>In patients with gastric ulcer</i>		355	
Part III <i>In pernicious anaemia patients</i>		357	
<i>Methods and techniques</i>			
An evaluation of the gastroduodenal fibrescope	WILLIAM BURNETT	361	
The use of telemetering capsules in disorders of the alimentary tract.	A. N. SMITH and M. RIDGWAY	366	
Part I <i>A technique for recording pressure changes</i>		366	
Part II <i>The application to the study of human gastro-intestinal motility</i>		371	
Index to volume 3		377	

- Jones, F. Avery, and Gummer, J. W. P. (1960). *Clinical Gastroenterology*. Blackwell Scientific Publications, Oxford.
- Macgregor, A. R. (1960). *Pathology of Infancy and Childhood*, p. 411. Livingstone, Edinburgh and London.
- Malins, J. M., and French, J. M. (1957). Diabetic diarrhoea. *Quart. J. Med.*, n.s. 26, 467-480.
- Maximow, A. A., and Bloom, W. (1952). *A Textbook of Histology*, 6th ed., p. 378. Saunders, Philadelphia.
- Naish, J. M., Capper, W. M., and Brown, N. J. (1960). Intestinal pseudo-obstruction with steatorrhoea. *Gut*, 1, 62-66.
- Phillips, J. H. C. (1953). Jejunal diverticulosis. *Brit. J. Surg.*, 40, 350-354.
- Schneider, R., Bishop, H., Shaw, B., and Frazer, A. C. (1960). Effect of wheat gluten on the peristaltic reflex. *Nature (Lond.)*, 187, 516.
- Shiner, M. and Doniach, I. (1960). Histopathologic studies in steatorrhoea. *Gastroenterology*, 38, 419-440.

---

## The March 1962 Issue

### THE MARCH 1962 ISSUE CONTAINS THE FOLLOWING PAPERS

Mechanisms protecting against gastro-oesophageal reflux: a review MICHAEL ATKINSON

A study with the electron microscope of the jejunal epithelium in primary malabsorptive disease D. J. C. SHEARMAN, R. H. GIRDWOOD, A. WYNN WILLIAMS, and I. W. DELAMORE

The arrest of intestinal epithelial 'turnover' by the use of  $\alpha$ -irradiation G. WIERNIK, R. G. SHORTER, and B. CREAMER

The results of exfoliative cytology studies in 50 patients with symptoms of large bowel disorder J. I. BURN and R. A. SELLWOOD

Medical management of chronic gastric ulcer DAVID FERRIMAN

Excretion of formimino-glutamic acid in steatorrhoea J. P. KNOWLES

The diagnosis of primary tumours of the duodenum T. H. CRAWFORD BARCLAY and H. P. KENT

The late prognosis of perforated duodenal ulcer A. C. B. DEAN, C. G. CLARK, and A. H. SINCLAIR-GIEBEN

A comparison of a series of newer anticholinergic agents with atropine as regards their effect on saliva flow and gastric secretion in man D. W. PIPER and MIRJAM C. STIEL

The effect of *E. coli* on the absorption of vitamin B<sub>12</sub> C. C. BOOTH and JANET HEATH

Serum studies in man after administration of vitamin A acetate and vitamin A alcohol. II In subjects suffering from disturbances of absorption and digestion OLIVER FITZGERALD, JAMES J. FENNELLY, and DANIEL J. HINGERTY

The influence of sex and age on appendicitis in children and young adults J. A. H. LEE

The treatment of constipation in mental hospitals L. R. C. HAWARD and H. E. HUGHES-ROBERTS

Colonic irritability due to a mercurial bacteriostat in retention enemata S. G. FLAVELL MATTS, J. H. BARON, A. M. CONNELL, and J. E. LENNARD-JONES

The annual meeting of the British Society of Gastroenterology

Copies are still available and may be obtained from the PUBLISHING MANAGER,

BRITISH MEDICAL ASSOCIATION, TAVISTOCK SQUARE, W.C.1., price 17s. 6d.