## NEW

#### in oesophageal ulcer, erosions and oesophagitis

## **PYROGASTRONE**

carbenoxolone, magnesium trisilicate, dried aluminium hydroxide gel

# 95% OF PATIENTS HEALED OR IMPROVED 1

"The results... are the most impressive we have so far observed in the treatment of reflux oesophagitis and suggest that Pyrogastrone\* is the most effective agent now available for the treatment of this condition."

1. Double blind controlled trial on 37 patients treated for 8 weeks. Curr. med. Res. Opin. (1978), 5:638.



Chewable
Pyrogastrone tablets
coat the oesophageal
mucosa with a
tenacious, soothing
alginate-antacid foam,
which protects it from
reflux, buffers against
regurgitated acid and
bile, and localises the
action of a low but
effective dose of the
healing agent
carbenoxolone.

Formula. Each chewable, strawberry flavoured tablet contains carbenoxolone sodium B.P. 20 mg, magnesium trisilicate B.P. 60 mg and dried aluminium hydroxide gel B.P. 240 mg in a base containing alginic acid B.P.C. 600 mg and sodium bicarbonate B.P. 210 mg. Presentation. Cartons of 4 x 25 tablets in foil strips. Basic NHS cost. One day's treatment (5 tablets) 56p. Indications. For the treatment of oesophageal inflammation, erosions and ulcers due to hiatus hernia or other conditions causing gastric reflux; and for the relief of heartburn, flatulence and other symptoms associated with reflux oesophagitis. Dosage. (Adults). One to be chewed immediately after meals 3 times a day, and two to be chewed at bedtime. Safety factors. Pyrogastrone should not be prescribed for patients suffering from severe cardiac, renal or hepatic failure, or for patients on digitalis glycosides, unless serum electrolyte levels are monitored at weekly intervals to detect promptly the development of hypokalaemia. Special care should be exercised with patients predisposed to sodium and water retention, potassium loss and hypertension (e.g. the elderly and those with cardiac, renal or hepatic disease) since the carbenoxolone content of Pyrogastrone can induce

similar changes. Regular monitoring of weight and blood pressure, which should indicate the development of such effects, is advisable for all patients. A thiazide diuretic should be administered if oedema or hypertension occurs (spironolactone should not be used because it hinders the therapeutic action of carbenoxolone). Potassium loss should be corrected by the administration of oral supplements. No teratogenic effects have been reported with carbenoxolone sodium, but careful consideration should be given before prescribing Pyrogastrone for women who may become pregnant.

\*The Pyrogastrone tablets used in this trial contained the same low dose of carbenoxolone (20 mg) but only one third the alginate and antacid now available in Pyrogastrone. The control tablets contained the same base, but without carbenoxolone.

Pyrogastrone is a registered trade mark. Made under licence from Biorex Laboratories. Brit. Pat. Nos. 843133 and 1390683. PL 0071/0138.

Full prescribing information is available on request from Winthrop Laboratories, Surbiton-upon-Thames, Surrey, WINTHROP

II Gut September 1979



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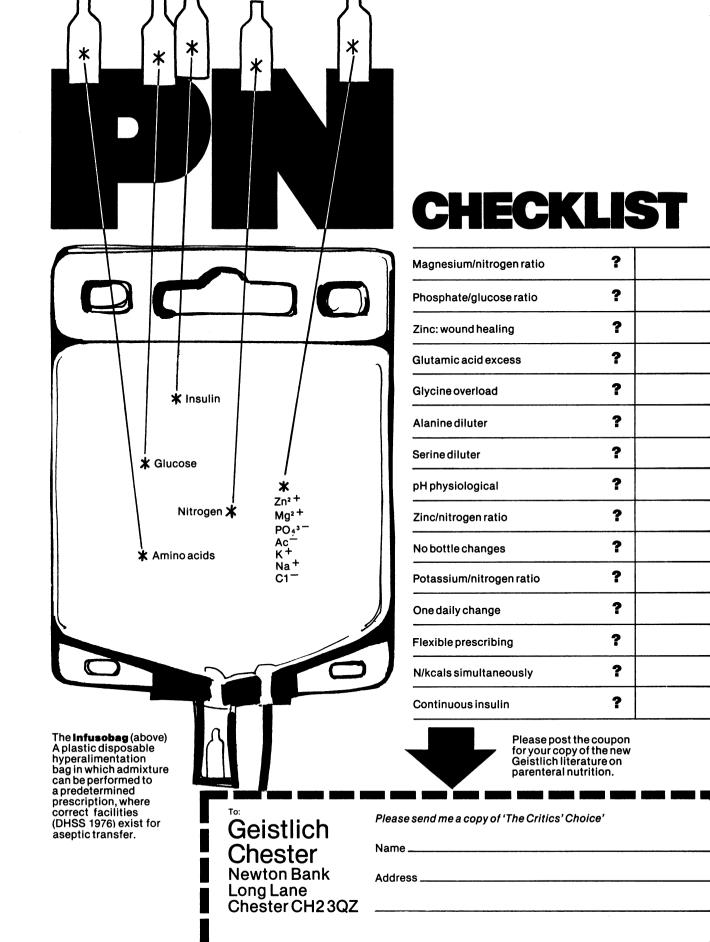
**JULY 79** 

#### Gastrointestinal factors FLUKA, low priced and in outstanding quality

The peptides are lyophilized from water, dilute acetic acid or dilute ammonia and contain therefore varying amounts of water and acetic acid or ammonia. The actual content of the free peptide in the different preparations has been determined by amino acid analysis and is specified on the individual package insert as percent of lyophilized material. The weights indicated in the price-list and on the vials specify the amount of lyophilizate.

Gast	rin Series	prices in Swiss francs
53670	<b>Human Big Gastrin I, HG-34</b> (Kenner-Harris-Structure) synthesized according to E. Wünsch et al., Z. Naturforsch. <i>32c</i> , 495-506 (1977)	≥1 mg* 650.— 5 mg 2000.—
53671	<b>Human Big Gastrin-(1-20), [HG-34]</b> <sup>1-20</sup> (Kenner-Harris-Structure) synthesized according to E. Wünsch et al., Z. Naturforsch. <i>32c</i> , 495-506 (1977)	≥1 mg* 350.— 5 mg 875.—
53673	Human Gastrin I, HG-17 synthesized by classical procedures	≥1 mg* 275.— 10 mg* 1300.—
61887	[15-Leucine]-Human Gastrin I, LHG-17 synthesized according to E. Wünsch et al., Hoppe-Seylers Z. Physiol. Chem. 363, 1255-1258 and 1716-1720 (1972)	5 mg 450.— 10 mg 850.—
53669	Human Mini Gastrin I, HG-14 (2nd Gregory Structure) synthesized by classical procedures	5 mg 450.— 10 mg 850.—
53674	Human Mini Gastrin I, HG-13 (1st Gregory Structure) synthesized by classical procedures	5 mg 400.— 10 mg 750.—
61893	[11-Leucine]-Human Mini Gastrin I, LHG-13 synthesized according to E. Jaeger et al., Hoppe-Seylers Z. Physiol. Chem. 359, 155-164 (1978)	10 mg 450.—
Moti	lin Series	
61895	[13-Leucine, 14-glutamic acid]-Motilin, porcine (revised Brown Structure) synthesized according to E. Wünsch et al., Hoppe-Seylers Z. Physiol. Chem. 357, 447-458 and 459-465 and 467-476 (1976)	≥1 mg* 300.— 5 mg 800.— 10 mg 1500.—
74590	[13-Norleucine, 14-glutamic acid]-Motilin, porcine (revised Brown Structure) synthesized according to E. Wünsch et al., Hoppe-Seylers Z. Physiol. Chem. 357, 447-458 and 459-465 and 467-476 (1976)	≥1 mg* 300. — 5 mg 800. — 10 mg 1500. —
Secr	etin Series	
84875	Secretin, porcine synthesized according to E. Wünsch et al., Chem. Ber. 105, 2508-2514 and 2514-2522 (1972)	≥1 mg* 300.— 5 mg 800.— 10 mg 1500.—
31193	DATA-Secretin (Desaminotyrosyl-β-alanyl-secretin) synthesized according to E. Wünsch et al., Hoppe Seylers Z. Physiol. Chem. 357, 1417-1420 (1976)	≥1 mg* 500. — 5 mg 1500. —
	* The weight can vary between 1 and 1.2 mg; the actual value is indicated on the label.	

These materials are sold for laboratory and animal use only.



# Like it or not, food allergies do exist.



# And so, at last, does an effective drug treatment.

The whole business of food allergies is, admittedly, a difficult, often unclear and sometimes contentious one.

#### DIAGNOSIS: THE BASIC PROBLEM.

The symptoms of food allergies may occur in the gastro-intestinal tract, or mimic diseases in other systems.

Like, for example, chronic diarrhoea (and other chronic gastro-intestinal symptoms), urticaria and eczema.

The exact mechanism is uncertain.
But it appears that initially the allergen

causes a reaction in the wall of the gut.

This, in turn, leads to gastro-intestinal symptoms or, indirectly, symptoms in other 'target' organs.

#### ELIMINATION DIETS: THE EASY ANSWER.

The obvious way to treat food allergies is, of course, to eliminate offending foods.

It is no great hardship to be told to avoid eating things like tomatoes or oysters, after all.

But the root of the problem can often be more complex.

And what can you do when after investigation the causes are such that total elimination is impractical?

#### TRIALS AND RESULTS.

Studies involving 104 patients with food allergy symptoms of eczema, urticaria, diarrhoea or vomiting have been published.

The result?

Orally-administered sodium cromoglycate proved to be an effective treatment, for these difficult problems, in 59 patients (57%).

#### NALCROM. A TREATMENT.

Nalcrom is sodium cromoglycate.

Sodium cromoglycate – a drug with a history of over 10 years clinical efficacy and safety. It is, in fact, the only drug which can treat food allergies by prevention.

So, faced with a known allergy to a food which cannot easily be eliminated, why not add Nalcrom as a trial to the elimination diet?

Before you do, however, perhaps you would like a specialist representative to call on you to discuss the whole issue, and the way Nalcrom works.

Just post the coupon or write to Fisons Ltd, Pharmaceutical Division, Loughborough, Leicestershire, and let us arrange a convenient time.

### Nalcrom® SODIUM CROMOGLYCATE B.P.

I would like a representative to call.
Name
Address
Telephone G9
Fisons Limited, Pharmaceutical Division, Derby Road, Loughborough, Leicestershire LE11 0BB.

administration: (a) Chronic inflammatory bowel disease as an adjuvant in the treatment of ulcerative colitis, proctitis and proctocolitis – two capsules four times daily in adults and one capsule four times daily in children from 2-14 years, before meals. (b) Food allergy – as above for the initial dose. If satisfactory control is not achieved within three weeks, the dosage may be doubled but not exceed 40 mg/kg/day. Dosage may be reduced to the minimum required to maintain the patient free of symptoms. Protection may be afforded by a single dose taken 15 minutes before a meal in which there may be an unavoidable allergenic food. The capsules may be swallowed whole or the powder contents may be dissolved in hot water and diluted with cold water to drink. Contra-indications: There are no specific contra-indications. Warnings: The safety in pregnancy and the treatment of children under two years has not yet been established. Side effects: Nausea, skin rashes and joint pains have been reported in a few cases. Over-dosage: No action other than medical observation should be necessary. Basic NHS cost: £17.14 per 100 capsules. PL 0113/0073.

# Recorded Colifoam

hydrocortisone acetate foam

A remarkable new study<sup>1</sup> carried out in the gastroenterology department of St. Bartholomew's Hospital now provides firm evidence of the extent to which 'Colifoam' penetrates into the colon – and how long it remains in situ.

The study involved 14 patients with ulcerative colitis. 'Colifoam' labelled with a radioactive marker was administered in the normal recommended dosage, and its penetration recorded by gamma photography.

In all of the patients with active disease the foam reached the mid-sigmoid colon, and in 78% the foam reached the proximal sigmoid colon.



These photographs illustrate results in a typical case:

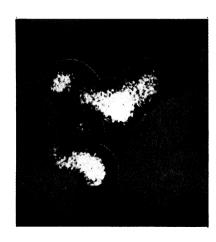
- 1. Immediately after instillation.
  There is already good
  penetration through the
  rectum.
- 2. After 1 hour. 'Colifoam' has now reached the sigmoid colon.
- 3. After 6 hours. 'Colifoam' is present in high concentration throughout the sigmoid colon, including the proximal segment.



This study confirms the relevance of 'Colifoam' therapy in patients with ulcerative colitis throughout the sigmoid colon: that means a high proportion of new cases, and a significant proportion of all ulcerative colitis sufferers. Indeed, it is noteworthy that retrograde spread of the foam was greatest in patients with more extensive disease.

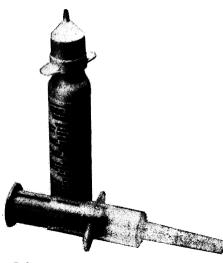
'Colifoam' offers these patients the benefits of anti-inflammatory therapy

# Delivery



in a form that is much more acceptable than the outmoded retention enema.

"Of the twenty patients, 19 found Colifoam easy to use and more comfortable to insert than a steroid enema..."<sup>2</sup>



#### References

 Paper presented at Meeting of British Society of Gastro-enterology, Hull, 1979, March 29-30.

2. Practitioner (1977) 219: 103.

# In ulcerative colitis Colifoan gets to the point

#### Presentation

White odourless aerosol foam containing hydrocortisone acetate 10% with inert propellants. **Uses** 

Anti-inflammatory corticosteroid therapy for the topical treatment of ulcerative colitis, proctosigmoiditis and granular proctitis.

#### Dosage and Administration

One applicatorful inserted into the rectum once to twice daily for two or three weeks and every second day thereafter. Shake can vigorously before use (illustrated instructions are enclosed in each pack).

Satisfactory response usually occurs within five to seven days.

One applicatorful of Colifoam provides a dose of approximately 90-110mg of hydrocortisone acetate, similar to that used in a retention enema, for the treatment of ulcerative colitis, sigmoiditis and proctitis.

#### Contra-indications and Warnings, etc.

Local contra-indications to the use of intrarectal steroids include obstruction, abscess, perforation, peritonitis, fresh intestinal anastomoses and extensive fistulas.

General precautions common to all corticosteroid therapy should be observed during treatment with Colifoam. Treatment should be administered with caution in patients with severe ulcerative diseases because of their predisposition to perforation of the bowel wall.

Safety during pregnancy has not been fully established.

#### **Package Quantities**

Aerosol canister containing 20g (14 applications) plus a plastic applicator and illustrated leaflet. Basic NHS cost £6.27.

#### **Product Licence No.**

0036/0021

Further information is available on request. **Stafford-Miller Ltd.,** Professional Relations Division, Hatfield, Herts.



Maxolon protects the gastric mucosa from over-long exposure to gastric acid<sup>1</sup> by promoting normal peristalsis and gastric emptying<sup>2,3</sup> This action contrasts with that of antacids.

By restoring the stomach's normal control, symptoms described by the patient as fullness, pain, heartburn and discomfort can be effectively treated and their recurrence prevented.

To the patient, Maxolon is the simple and convenient therapy to replace his repetitive antacid prescriptions.

#### Prescribing Information

Indications

Dyspepsia, heartburn and flatulence associated with the following conditions e.g., Reflux oesophagitis, Gastritis, Hiatus hernia, Peptic ulcer.

#### Adult Dosage (oral)

Adults 10mg
1 tablet or 10ml syrup 3 times a day.
Young adults (15-20 years) 5-10mg
½-1 tablet or 5-10ml syrup 3 times a day

Note: Total daily dosage of Maxolon, especially for children and young adults should not normally exceed 0.5mg/kg

commencing at the lower dosage.

#### Side-effects and Precautions

There are no absolute contra-indications to the use of Maxolon.

to the use of Maxolon. Various extra-pyramidal reactions to Maxolon, usually of the dystonic type, have been reported. The incidence of these reactions in children and young adults may be increased if daily dosages higher than 0.5mg/kg body weight are administered. The majority of reactions occur within 36 hours of starting treatment and the effects usually disappear within 24 hours of withdrawal of the drug. Should treatment of a reaction be required, an anticholinergic anti-Parkinsonian drug e.g. benapryzine, or a benzodiazepine may be used. Since extrapyramidal symptoms may occur with both

Maxolon and phenothiazines, care should be exercised in the event of both drugs being prescribed concurrently.

Raised serum prolactin levels have been observed during metoclopramide therapy; this effect is similar to that noted with many other compounds.

Maxolon's action on the gastro-intestinal tract is antagonised by anticholinergics. Although animal tests in several mammalian species have shown no teratogenic effects, treatment with Maxolon is not advised during the first trimester of pregnancy.

Following operations such as pyloroplasty or gut anastomosis Maxolon therapy should be withheld for three or four days as

vigorous muscular contractions may not help healing.

**Availability and NHS Prices** 

Tablets 10mg (£5.84 per 100).
Syrup 5mg/5ml (£2.42 for 200ml).
A paediatric liquid presentation and ampoules for injection are also available.
Average daily cost of Maxolon tablets.

Average daily cost of Maxolon tablets (ex. 500 pack) 17p. Prices correct at January 1979. Further information is available on request to the company.

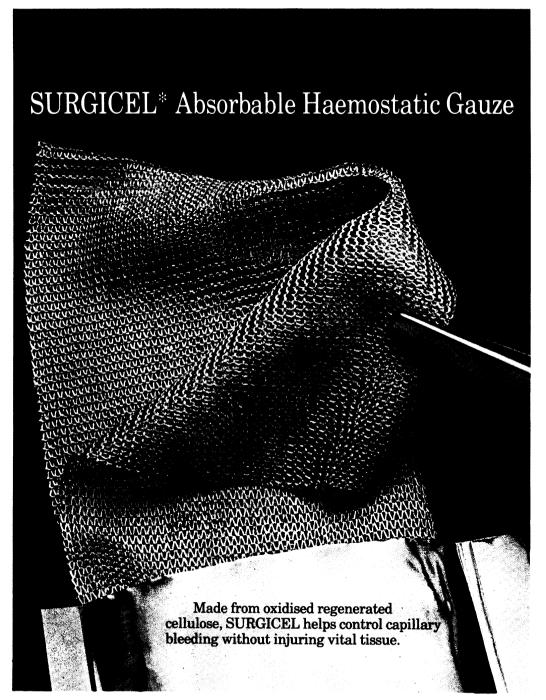
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Brentford, England.
A branch of Beecham Group Limited.

Maxolon, BRL and the Company logo

are registered trade marks. PL 0038/0095 0098 5040 5041

1. Gut. (1969), 10, 678-680. 2. Postgrad. med. J., (1973), 49, (Suppl), 29. 3. Gut. (1974), 15, 462-467. 4. Brit. med. J., (1971), 2, 25.



#### **ETHICON**

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## SURGICEL\* Absorbable Haemostatic Gauze ETHICO

Gut September 1979 ΧI



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Topaz is a new and extensive range of modern stoma pouches to suit your patients, right from the operating theatre back to a more normal life at home. The Topaz range of stoma pouches includes:

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URO —for urinary diversion

Topaz features include charcoal flatus filters, opaque neutral-coloured bag front, and several seal/karaya options. All the technical superiority you would expect from Searle Medical, leaders in stoma care products.

Detailed information and samples are available on request from Searle Medical.

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# Carbenoxolone can heal gastric and duodenal ulcer

Garbenoxolone...acts, in healing these ulcers, by restoring the gastric physiology to normal – rather than by creating a non-physiological artifice, such as that produced by antacids and H₂-receptor antagonists... <sup>991</sup>

IMPORTANT ACTIONS

- 1. EXTENDS LIFE-SPAN
  OF EPITHELIAL CELLS<sup>2</sup>
- 2.INCREASES MUCUS PRODUCTION<sup>3</sup>

IMPORTANT PRODUCTS

#### BIOGASTRONE

carbenoxolone

tablets for gastric ulcer

#### **DUOGASTRONE**

carbenoxolone

positioned-release capsules for duodenal ulcer

<sup>1.</sup> In "Peptic Ulcer Healing. Recent Studies on Carbenoxolone." 1978. Lancaster, MTP Press Ltd., p.1. 2. ibid., pp. 9-20. 3. In 4th Symposium on Carbenoxolone. 1975. London, Butterworths, p. 161.

Biogastrone and Duogastrone are registered trade marks.



### **DUODENAL ULCERATION** WHAT COMES NATURAL

"Tagamet' has been shown to be unequalled in the short-term treatment of duodenal ulceration. inducing early and dramatic symptomatic relief. rapid healing and subsequent remission.1.2

In addition, 'Tagamet' has been shown to prevent relapse during longer-term maintenance therapy: 3-5 the only drug so far proven to have this property.

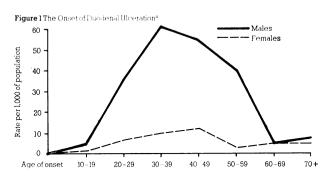
However, experience to date tends to suggest that for many patients the natural history of the disease remains unaltered despite medical intervention<sup>6</sup> and the question inevitably arises – will patients with a severe condition require medical treatment for the rest of their lives?

This can only be answered when the natural history of duodenal ulcer disease is fully understood. Some aspects of the natural history of the disease, however, have been well recognised for some vears.

It is a naturally relapsing condition; in fact, it has been estimated that 75-80% of patients have at least one recurrence within 5 years of the initial episode, some relapsing several times in one year.

The onset of duodenal ulceration is related to age, as shown in Figure 1. The initial episode is most likely in the 30-39 age group for males and slightly later in life for females.

Of greater interest is the natural development of the disease following its onset. Figure 2 demonstrates how the disease tends to 'burn itself out' after a certain period of time.8 In a group of duodenal ulcer patients who were followed for 15 years, the symptoms tended to peak in severity

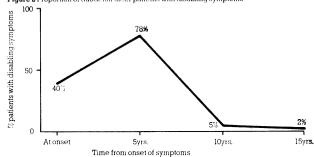


after 5 years and then progressively remit until at 10 years no more than 5% of patients had severe symptoms.

This finding has been recently substantiated by workers in Denmark who found in a retrospective study that the disease is present for a finite time.9

The workers concluded 6... most patients with duodenal ulceration will need only intermittent or continuous cimetidine treatment for a limited period.

Figure 2 Proportion of duodenal ulcer patients with disabling symptoms<sup>8</sup>



#### Prescribing Information

Duodenal ulcer.

Presentations
"Tagamet' Tablets PL0002/0063 each containing 200mg

cimetidine. 100, £13.22; 500, £64.75.
"Tagamet' Syrup PL0002/0073 containing 200mg

cimetidine per 5ml syrup. 200ml, £6.29 Indication

Dosage
Adults: 200mg tds with meals and 400mg at bedtime (1.0g/day) for at least 4 weeks (for full instructions see Data Sheet).

To prevent relapse, 400mg at bedtime or 400mg morning and evening for at least 6 months.

Cautions

Impaired renal function: reduce dosage (see Data Sheet). Potentiation of oral anticoagulants (see Data Sheet) Prolonged treatment: observe patients periodically, Avoid during pregnancy and lactation.

Adverse reactions

cimetidine

Diarrhoea, dizziness, rash, tiredness. Rarely, mild gynaecomastia, reversible liver damage, confusional states (usually in the elderly or very ill), interstitial

#### References

- Oral cimetidine in severe duodenal ulceration. (1977) Lancet, i, 4.

- (1917) Lancet, 1, 4.

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  5. Cimetidine treatment in the management of chronic duodenal ulcer disease. (1978) Topics in Gastroenterology. (In Press).
- 6. Cimetidine for duodenal ulcer (1978) Lancet, ii, 1237.
- The natural history of duodenal ulcer disease. (1976) Surg. Clin. N. Amer., 56, 1235.
- 8. Peptic ulcer: a profile. (1964) Brit med. J., 2, 809. 9. Long-term prognosis of duodenal ulcer: follow-up
- study and survey of doctors' estimates. (1977) Brit. med. J., 2, 1572.

Full prescribing information is available from



Smith Kline & French Laboratories Limited Welwyn Garden City, Hertfordshire AL7 1EY Telephone: Welwyn Garden 25111

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"... the major cause of sepsis after surgery of the gastrointestinal tract or female genital tract"

Br Med J. i. 318, 1976



#### proves decisive in anaerobic infections

Only with recent improvements in bacterial culturing techniques has the pathogenic role of anaerobes in post-surgical infections been fully recognized. 3 Now 'Flagyl' Injection offers you a decisive means of treating these infections - which are often life-threatening and often resistant to established antimicrobials. The response to 'Flagyl' Injection is rapid and dependable,<sup>2</sup> as it is consistently bactericidal to pathogenic anaerobes at tissue concentrations easily achieved in treatment. Bacterial resistance is not a problem,24 and 'Flagyl' is highly acceptable - as eighteen years of use in other indications has established.

Dosage: Treatment, adults, and children over 12 years: 100 milby intravenous infusion eight-hourly, administered 5 ml per minute. Oral medication with 400 mg three times daily should be substituted as soon as this becomes feasible. Treatment for seven days should be satisfactory in most cases. Children under 12 years: as for adults but the single intravenous dose is based on 1.5 ml (7.5 mg metronidazole) per kg bodyweight and the oral dose on 7.5 mg per kg bodyweight. Prevention: adults and children over 12 years: 100 ml by intravenous infusion immediately before, during or after operation, followed by the same dose eight hourly until oral medication (200 to 400 mg three times daily) can be given to complete a seven day course. Children under 12 years; as for adults but the single intravenous dose is based on 1.5 ml (7.5 mg metronidazole) per kg bodyweight and the oral dose on 3.7 to 7.5 mg per kg bodyweight. Precautions: pregnancy. factation; clinical and biological surveillance if recommended duration of treatment exceeded; dosage may be halved for patients with renal failure; avoid alcohol; if 'Flagyl' is to be given to patients receiving oral anticoagulants the dosages of the latter should be recalibrated. Side effects and adverse reactions; occasionally an unpleasant taste, furred tongue, nausea, vorniting (very rarely), gastro-intestinadisturbance. Drowsiness, dizziness, headache, ataxia, skin rashes, pruritus, inco-ordination of movement, darkening of the urine very rarely. During intensive and/or prolonged therapy, peripheral neuropathy has been reported. A moderate leucopenia has been reported but the white cell count has always returned t normal before or after treatment has been completed. Transient epileptifor:

eutures in a few patients undergoing intensive, high dosage metronidazole radiosensitization therapy.

Flagyl' metronida.tole 

Basic NHS (as at May 1979)

Injection for confusion Bottle of 100 mt 45 4. **References** 1. Willis, A.T. (1977) Scottish Medical pearnal, **22**, 155-2. Willis, A.T. et al. (977) British Medical Journal, i, 607, 3, Finegold, 5 M. Anaerobic B.a. teria in Human Disease, Academic Press Inc. New York, 19%.4 Willis, A Fet al (1975)Journal of Antimicrobial Chemotherapy, 1, 393.1975. Further information is available on request

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May & Baker





## Peptic Ulcer News

"We compared cimetidine with conventional medical treatment. Carbenoxolone was chosen for patients under 60, but because of its potential side effects – namely, hypokalæmia, fluid retention, and hypertension – older patients were given Caved-(S)."

"In the patients under 60 cimetidine was slightly more successful in producing ulcer healing than carbenoxolone."

"In patients over 60 there was no appreciable difference in gastric ulcer healing rates between the Caved-(S)-treated and cimetidine-treated groups. Caved-(S) used in the dosage employed in this study, however, is only a quarter of the price of cimetidine, and may have fewer side effects."

Morgan AG et al (1978) BMJ, 2, 1323-1326

Caved-S contains Deglycyrrhizinated Liquorice., Bism. Subnit., Alum. Hydrox., Mag. Carb., Sod. Bic., Frangula., and is indicated in the treatment of peptic ulcers.

The usual adult dose for the treatment of peptic ulcers is 2 tablets 3 times daily, and for duodenal ulcers this may be increased to 2 tablets 6 times daily. For prophylaxis, half this dose is used, and children should be given half the adult dose.

Basic NHS price of 60 tablets is £1.45 ex 600 pack. PL 0424/5000.

Full prescribing information is available to the medical profession on request.

TILLOTTS LABORATORIES Henlow Trading Estate, Henlow, Beds.

#### REVISTA ESPAÑOLA DE LAS ENFERMEDADES DEL APARATO DIGESTIVO

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