

It is commonly agreed that prostaglandins confer upon the gastric mucosa a resistance to erosion and damage. This so called mucoprotection is compromised by the use of antiarthritic drugs which are prostaglandin synthetase inhibitors. It has been suggested that this is of great relevance to the observed level of gastric side-effects observed with this class of drug.

Lederfen in the stomach has little or no effect on the mucoprotection conferred by the endogenous prostaglandins.² Simply, unmetabolised Lederfen is not a prostaglandin synthetase inhibitor.

The major metabolites of Lederfen are however most potent PSIs, shown by in vitro studies to be twice as potent as indomethacin.2 Thus, once Lederfen

has been absorbed – avoiding prostaglandin-associated gastric compromise—a powerful antiarthritic effect is observed. Lederfen has been found to be at least equal in clinical effectiveness to reference standards including naproxen,3 indomethacin,4 and aspirin.5 But with significantly fewer side-effects.

Power without doubt. The prochoice in arthritis.

the pro-drug way to control pain, stiffness and side-effects

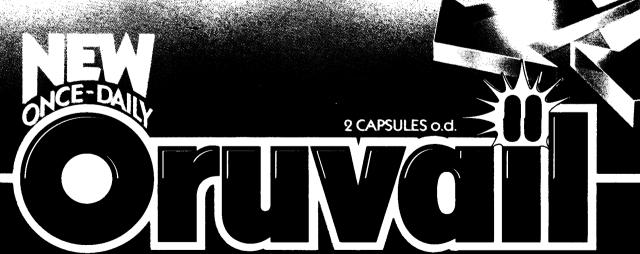
Indications: R heumatoid arthritis, osteoarthritis, ankylosing spondylitis. Dosage: Adults: One tablet in the morning and two at night. LEDERFEN is not a gastric irritant and is converted, following absorption into long-acting active metabolites. Consequently LEDERFEN is extremely unlikely to cause gastro-intestinal bleeding or ulceration. Furthermore, LEDERFEN may be used without dosage modification in elderly patients in whom mild to moderate renal impairment commonly occurs. Contra-indications: Hypersensitivity to propionic acid anti-inflammatory drugs or aspinn. Precautions: In patients with a history or evidence of active peptic or intestinal ulceration, and only when considered essential in pregnant and nursing women. Side-effects: LEDERFEN is well tolerated by most patients. Gastro-intestinal symptoms, and occasionally skin rash are the most commonly reported. Legal Category: POM. Presentation: Light blue. film coated, capsule shaped 500 are gablets engraved "LL300," or capsules printed "Lederle 300 mg," in bottles of 100.
Basic NHS Cost: £16.24 per 100 tablets or capsules. PL0095/0081. Further information is available on request to the company.
Lederle Laboratories, a division of Cyanamid of Great Britain Limited, Fareham Road. Gosport, Hants PO13 OAS. Tel: (0329) 236131.
References: 1. Guth PH, Ann Rev Med: 33: 183: 196 (1982) 2. Birnbaum J. et al. Pharmacology: 25 (Suppl. 1): 27-38 (1982) 3. Khan FM, to be published 4. Salzman RT.

Lederle Runder Runder Runder Revenue.



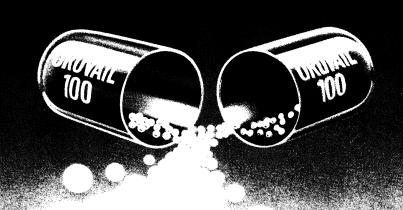
WATTO DE MERRELE: FROM ARTHRITS

unique pH-sensifi.



ketoprofen

Programmed to control your patients' symptoms 24 hours-a-day



dialysing membrane ketoprofen

IN THE STOMACH

the acid environment prevents release of active drug – minimising local gastric irritation.

IN THE INTESTINE

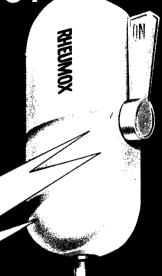
Prescribing information

Prescribing information
Dosage: Orally with food, 100-200ing once daily
Contra-indications. Recurring history of rior peptic ulceration, chronic dyspegsia, use in children, in patients sensitive to aspring or other non-steroidal anti-inflammatory drugs known to inhibit prostaglandin synthetase or with pronchial asthma or allergic disease.
Precautions: Pregnancy, lactation. Dosage of concomitant protein binding drugs may need modification. Side-effects. Occasional systems and intolerance. Very rare sastro-intestinal haemorrhage iskin rashes.
Presentation: 100mg capsules PL 0012:0133
Basic NHS Cost. (Jul 182): 100 × 100mg capsules £18.38
Oruval is a trade mark.



M&B May&Baker

THE ONLY SINGLE DRUG TREATMENT FOR ACUTE AND CHRONIC GOUT



RAFIIMON

AZAPROPAZONE DIHYDRATE

Rapid pain relief

Reduction of abnormal serum urate levels

The Unique

Processory

The control of the contr

A STATE OF THE STA

Social de la companya del companya del companya de la companya del companya de la companya del companya de la companya de la companya de la companya de la companya del companya del

Market and the St. And St. And

AH-ROBINS

A THE ROLL AND COMMAND CAN THE S RECORD OF WORLD COMMAND TO THE SECOND WORLD ALLOW A TO THE TOTAL THE SECOND

Long term activity in arthritis

N the treatment of arthritis, relief of pain and inflammation is a major objective. The ultimate aim, however, is to restore mobility lost through painful, stiffened joints. This requires long-term, consistently effective control of pain and inflammation.

ation. Continuity of treatment is fundamental to the successful management of arthritis.



PRODUCT of Boots Research, Froben is designed for the long-term treatment of arthritis. Rapidly absorbed, it quickly reaches the affected joints bringing

pain and inflammation firmly under control and maintaining that control over long periods of treatment. Drug accumulation does not occur and Froben is well tolerated by most patients. Froben is suitable for continuous treatment. Which is why it is effective.

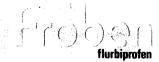
UITABLE for most arthritic patients, Froben is particularly valuable for those who need a high level of relief from pain and inflammation. Froben will provide that extra relief without the

high incidence of side-effects often associated with the more potent of the antiarthritic agents.



ROBEN is an excellent antiarthritic with which to start treatment. It is an excellent antiarthritic with which to continue treatment. With Froben, your arthritic patients will receive the full

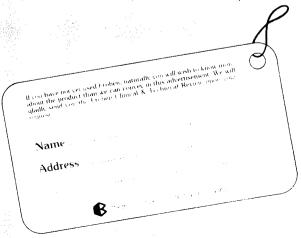
benefit of continuous, consistent long-term therapy.



Active in Arthritis

Prescribing Information

Presentation: Sugar coeled tablets, each containing either 50mg or 100mg of flutbuprofen. Uses: Froben is indicated in the restiment of rhaumatoid desess, catecontrivoids and analysioning spondylins. Doses: F50mg tablet, or a divided doses in patients with severe symptoms or disease or recent origin, or during acute exacerbations, the total daily dose may be increased to 300mg in divided doses. Contra-Indicatens. Warnings exit: Froben should not be given to divide may be increased to 300mg in divided doses. Centra-Indicatens. Warnings exit: Froben should not be given to who have been supported to the properties of th



Today's solution.



Osmosis.

The tablet.



SOLUTION IS RELEASED CONTINUOUSLY AT A PRECISE RATE. OSMOSIN is the tablet that releases therapy only in solution.

Designed to deliver a constant flow of relief from pain, inflammation and stiffness.

With a precision and regularity that no other oral therapy can achieve.

OSMOSIN releases a solution gradually and consistently which is absorbed throughout the digestive system.

To help minimise GI and CNS side effects associated with conventional therapies.

One tablet daily will provide full 24-hour efficacy, for most patients.

OSMOSIN is the principle of osmosis in a tablet.



Antiarthritic.



FORMOST ARTHRUICS

OSMOSIN: One tablet a day gives

24-hour relief.

OSMOSIN: Highly effective relief from pain, inflammation and stiffness.

OSMOSIN: Minimises GI and

CNS side effects.

s.

| Osmosin 30 |

tion. | Jaily

Abridged Product Information.

Full prescribing information is available on request and should be consulted before prescribing. INDICATIONS Osteoarthams: rheumatoid arithmts; ankylosing spondylitis; acute musculo

INDICATIONS Osteoarthritis: rheumatoid arthritis; ankylosing spondylitis; acute musculo skeletal disorders and low back pain. Pain and associated symptoms of primary dysmenorrhoca. DOSAGE Usually one daily. If required one twice daily, take whole, do not chew or crush and take with food or immediately after a meal. The maximum dose is two per day. CONTRA-INDICATIONS Active peptic ulcer, history of gastro-mestinal lesions, sensitivity to indomethacin or other non-steroidal ann-inflammatory agents, children, lactating women, and pregnancy.

PRECAUTIONS It GL symptoms occur. Weigh benefits against risks of continuing. It GI bleeding occurs discontinue OSMOSIN. May mask the signs and symptoms of infection. It is cautiously in the clderly and in patients with a history of psychiatric disorders, epilepsy or parkinsonism. Monitor the prothrombin time when adding OSMOSIN to the treatment of patients on anticoagulants, Interactions: aspirm, problemedal, thinum, trusemide, that allockers.

SIDE EFFECTS OSMOSIN is usually well tolerated. GI symptoms including natisea, dispoposa, are most common, Isolated cases of peptic tile erand bleeding have been reported with indone that in as have hepatic CVS, and renal effects. CVS symptoms including headache, dizziness, rarely hypersensitivity, including skin rashes, and hacmatological reactions ocular changes including blurred vision and cornical deposits have occurred.

BASICNHS COST Each OSMOSIN, Tablet is blue, coded "OSMOSIN" and contains 105 mg sodium indomethaten trifivdrate. Pack of 30. Basic NTS price.

£10.80. Product heenee number: 0025-0148 Product authorisation number: 35-59-1 Issued November 1982

TM denotes trademark.



Merck Sharp & Dohme Limited, Hoddesdon, Hertfordshire, ENII 9BU







Prescribing information: Presentation Tablets of 200 mg/ren, prenar Indications Chronic and sub-acutements object of this surface state various state and Dosage and Administration Acute 600 mode of the research of the control of th



New Product

Prescribing Information Presentation

White, uncoated, biconvex, scored tablets containing 200mg indoprofen. Indications

Rheumatoid arthritis, osteoarthritis, ankylosing spondylitis and other musculo-skeletal disorders.

Osteoarthritis: the recommended dosage of indoprofen is two tablets in the morning and one tablet at night.
The night-time dosage may be increased to two tablets for patients with more severe pain.

Rheumatoid Arthritis and Ankylosing

Spondylitis: the recommended dosage of indoprofen is two tablets in the morning and two tablets at night. A relatively small group of patients may prefer to take one tablet three times or even four times daily. Flosint allows for

As with similar drugs, the tablets should be taken with food to diminish the risk of gastric irrilation.

Children: Paediatric usage has not been established.

Contra -Indications, Warnings, etc.
Sensitivity to this class of compounds,

and active peptic ulceration.

Warnings: Bronchospasm may be precipitated in patients suffering from or with a previous history of bronchial asthma or allergic disease. Indoprofen is extensively protein -bound, and may displace oral anti -coagulants,

sulphonylureas, etc. from binding sites. Dosage alterations may be needed in patients requiring concomitant treatment with these agents. Dosage reduction may be required in renal or hepatic impairment.

Pregnancy: The use of indoprofen

during pregnancy should be avoided if possible, though animal experiments show no evidence of teratogenicity. Adverse Effects: The most common adverse reactions caused by indoprofen are gastro-intestinal, including dyspepsia and nausea.

Haemorrhage can occur rarely, as well as exacerbation of latent peptic ulceration. Other effects include mild central nervous system symptoms, such as dizziness and headache, and also skin rashes of various types.

Decrease in platelet count has been observed rarely and blood dyscrasias may uncommonly occur. Limited data available suggest that abnormal liver function may be further impaired by treatment with indoprofen.

Overdosage: Gastric lavage and general supportive treatment should be carried out. There is no specific

Legal Category POM.

Basic NHS Cost
Container of 100 tablets-£15.00.
Product Licence Number

PL3433/0034

References
1. Eur J. Rheumatol. Inflamm. 1981; 4: 118.
2. Ibid 1981; 4: 74. 3. Ibid 1981; 4: 53. 4. Brit.
Med. J. 1978; 1: 274. 5. Clin. Trials J. 1982; 19:
248. 6. Eur. J. Rheumatol. Inflamm. 1981; 4:
126. 7. Ibid 1981; 4: 135. 8. Ibid 1981; 4: 144.
9. Curr. Ther. Res. 1978; 24: 274. 10. J. Oral
Surg. 1981; 39: 21.

Full prescribing information is available from MONTEDISON GROUP



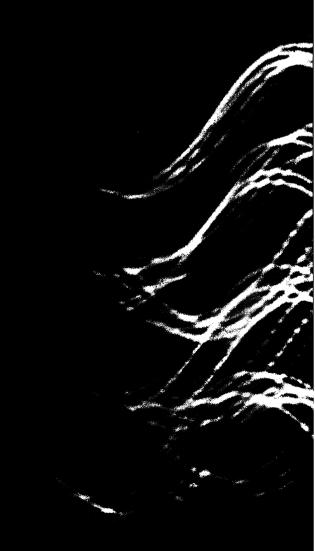
HERTS EN5 1 NU Flosint is a registered trademark

towards mobility

losint offers major anti-inflammatory/analgesic activity WITHOUT an unacceptable level of adverse effects, possessing both the powerful anti-inflammatory properties of indomethacin and the potent analgesic effects of the propionic acid derivatives.

Flosint is particularly suitable for treatment of a wide range of arthritic disorders including:

- Osteoarthritis
- Rheumatoid arthritis
- Ankylosing spondylitis
- Non-articular rheumatism

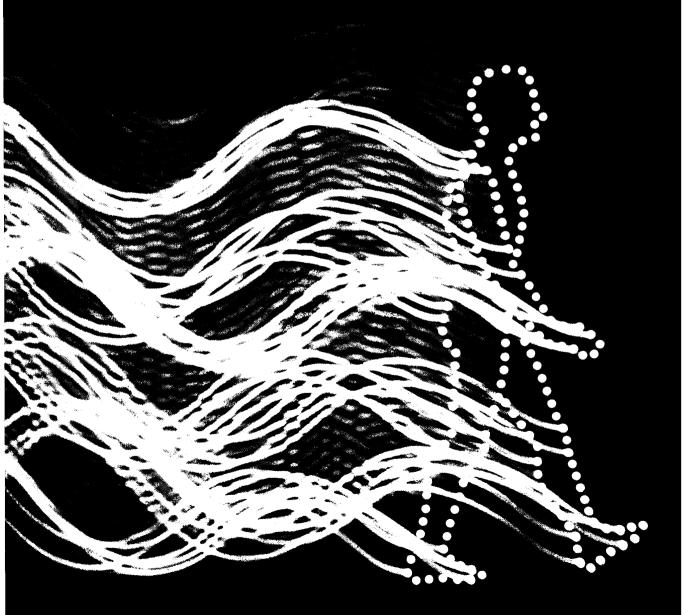


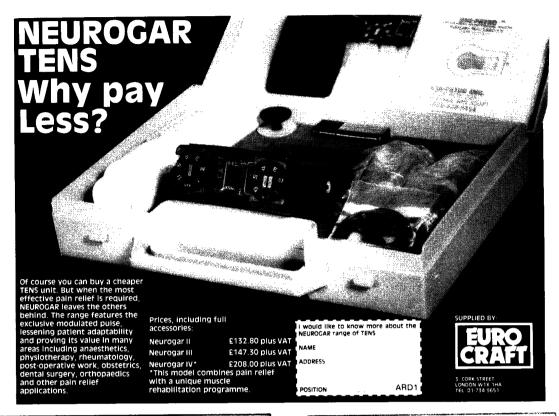
without pain

Clinical evidence has confirmed that Flosint is at least as effective as other anti-inflammatory agents in relieving pain and inflammation¹⁻⁵ and is often better tolerated.⁶⁻⁸



- Highly effective anti-inflammatory properties 4.9
- Powerful, rapid relief of pain superior in pain relief to paracetamol (650 mg) plus dextropropoxyphene (100 mg)¹⁰
- Well tolerated by most patients no reports of onycholysis or phototoxicity in long-term studies 6.7
- Dosage tailored to meet the patients changing needs – simple b.d. dosage.







Advanced Rheumatology

22-24 June 1983

This annual course in postgraduate rheumatology is aimed at consultants, senior registrars and others interested in advanced rheumatology

The course will include rectures, semmars and clinical presentations. Direct practical experience with certain laboratory procedures will be arranged

Topics will include

SLE--immunology and genetics RA-markers of disease modification Seronegative arthritis and howell assignate. antigens

Overlap syndromes and ENA Arteritis-pathogenetic mechanisms Crystals and inflammation Malignancy and arthritis

Collagen and arthritis Treatment; conventional and unconventional (Recent topics include plasma exchange sex hormones, total body irradiation, pulse methylprednisolone etc.

Course fee linc catering: £60 for home and EEC students f225 for overseas students

Course organiser Dr.G.R.V. Hughes

Application forms from

School Office (SSC Royal Postgraduate Medical School Hammersmith Hospital Du Cane Road

London W12 0HS Tel: 01 743 2030 ext 351

STATISTICS IN **PRACTICE**

STATISTICS AND ETHICS IN MEDICAL RESEARCH Douglas G Altman

STATISTICS IN QUESTION Shella M Gore

No doctor can afford to ignore statistics most modern medical research uses statistics. This important and authoritative book, which is a collection of articles that have appeared in the BMJ, provides hear information on designing studies. applying statistical techniques, and interpreting studies that use statistics. It can be easily understood by those with no statistical training and should be read by all those who want to keep abreast of new developments

Price: Inland £7 00, Overseas US\$27.50 (including air mail postage overseas)

Order your copy now

From The Publisher, British Medical Journal BMA House, Tavistock Square. London WC1H 9JR

🖙 anv leading hookseller

Freedom of movement



Voltarol® dictofenac sodium for arthritis

Geigy

Full prescribing information is available from Geigy Pharmaceuticals, Horsham, West Sussex

STATISTICS by T. D. V. SWINSCOW AT SQUARE ONE

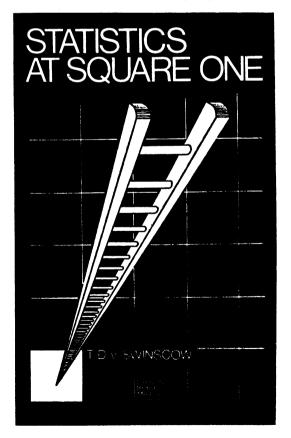
from the British Medical Journal

The statistical testing of data is indispensable in many types of medical investigation and a help on countless occasions in clinical practice. This book provides step-by-step instruction. Subjects covered include standard deviation, χ^2 tests, t tests, non-parametric tests, and correlation. The book includes sections on Fisher's exact probability test and rank correlation not published in the B.M.J. series. Methods specially adapted to pocket calculators.

"The ability to put symbols in sequence may well be one of the greatest advances in man's development . . . This excellent and attractive volume will give you an idea into which category an article or projected article fits. The ink you save may be your own. It is superb value."

O'Donnell, Barry, British Medical Journal, 1977, 1, 451.

"... this gem of a practical booklet squeezes the essence of biostatistics into 75 well-written, well-organized pages. Newcomers to the field will like the way obscure concepts are clarified: experts will find the book valuable as a teaching aid." de Jong, Rudolph, H., J.A.M.A., 1977, 237, 1874.



Seventh edition

PRICE: Inland £2.50

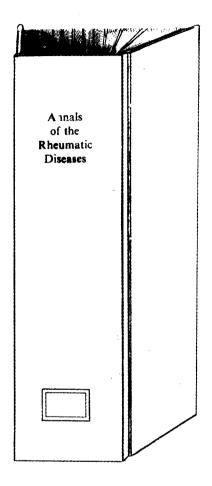
Overseas US\$10.00 including postage by air mail

Payment must be enclosed with order or a surcharge of 50p will be made for rendering invoices and statements

ORDER YOUR COPY NOW

From: The Publisher, British Medical Journal, BMA House, Tavistock Square, London WC1H 9JR

or through any leading bookseller



`CORDEX'

SELF-BINDING CASES

for easy and instant reference

Made to hold one volume (6 issues) of your ANNALS OF THE RHEUMATIC DISEASES.

Each case is handsomely bound with a colour to complement the journal. Spring nylon cords, to carry the journals, slide freely along the spine of the binder. The name of the journal is gold-blocked on the spine. Date labels are also provided.

Price: Inland £4.00; Overseas US\$12.00 including postage (air mail overseas) and packing

ORDER NOW

From: The Subscription Manager,

ANNALS OF THE RHEUMATIC DISEASES
BMA House, Tavistock Square, London WC1H 9JR