

When Brufen was first introduced, it soon established a reputation as an effective and exceptionally well tolerated drug.

That was more than ten years ago.
Since then, many new anti-inflammatory agents have become available for the treatment of rheumatic conditions. Brufen has been evaluated against most of them.

Teday, Brufen is prescribed in more than 100 countries across the World; more than 30 million people have been treated with Brufen.

Experience has confirmed that Brufen is one of the most efficient, reliable and best tolerated drugs available for the treatment of arthritis.

BRUFEN BLOOM BLOOM

The Great British
Workhorse in arthritis

Prescribing Information: Presentation Brufer: 400 are sugarcoated tablets each containing 400mg of Ibuprofen B.P. The tablets are light magenta in colour and bear the overprint Brufen 400 in black. Uses Broferns indicated for its anti-inflammatory and analgesic effect in the treatment of rheumatoid arthritis ancluding Juvenile rheumatoid arthritis or Still's disease), ankylosing spondyntis, estecarthrosis and other non rheumatoid (seronegative) arthropathies, in the treatment of nonarticular rheumatic conditions. Brufen is indicated in periorbicular conditions such as frigen shoulder (capsulitis). bursitis, tendinatis, tenusynositis and low back pain; it can also be used in soft tissue injuries such as sprains and strains. Dosage and Administration Adult. The recommended initial dosage of Brufen is 1200mg daily in divided doses. Some patients can be maintained on 600 to 1200mg daily. It can be advantageous in severe conditions to increase the dosage to 1600mg daily in divided doses until the acute phase is brought under control. Children: 20mg of Brufen per kg of body weight daily, except that in children weighing less than 30 kg, the total dose of Brufen given in 24 hours should not exceed 500mg. Contraindications Brufen should not be given to patients with severe or active peptic ulceration. Use in Pregnancy No teratogenic effects have been demonstrated in animal experiments; nevertheless, the use of Brufen during pregnancy should be avoided if possible. Warnings and Adverse Effects Brufen should be prescribed with caution for patients with asthma and especially for those who have developed pronchospasm with other non steroidal agents. The adverse effects reported include dyspensia.

possible. Warnings and Adverse Effects Brulen should be prescribed with caution for patients with asthma and especially for those who have developed pronchospasm with other non steroidal agents. The adverse effects reported include dyspepsia, gastro-intestinal intolerance and bleeding and skin rashes of various types. Less frequently, thromocyctopenia has occurred. A very rare occurrence can be toxic amblyopia, but in reported cases, recovery occurred upon cessation of treatment. Treatment of Overdosage Gastric lavage; if necessary, correction of biood electrolytes. There is no

Pharmaceutical Precautions Recommended storage conditions 5°C to 20°C. Legal Category POM Package Quantities 400mg tablets (Brufen 400): tin of 100, tin of 250. Further Information When Brufen is taken on an empty stomach, the peak serum levels occur 45 minutes after ingestion, whereas when taken after a meai, the peak is delayed to 90 minutes. Consequently, as most patients can take Brufen on an empty stomach without gastric discomfort, if the first daily dose is taken on awakening with a drink, the rapid absorption of the drug will help to relieve morning stiffness. Basic NHS Price Brufen 400: 250 Pack £11.90. Product Licence Number: 400mg tablets (Brufen 400): PL0014/0158.

BRUTEN is a registered trade mark
The Boots Company Ltd,
Nottingham

#### The American Orthopaedic Association

presents the

# First International Symposium on the Child's Hip

This conference, sponsored by the Alfred I. duPont Institute will be held October 20 through the 23 in Wilmington, Delaware. The conference will provide 32 hours credit in the AMA Category I.

For more information, please contact G. Dean MacEwen, M.D., Medical Director, Alfred I. duPont Institute, P.O. Box 269 Wilmington, Delaware, 19899, U.S.A.

## BRITISH POSTGRADUATE MEDICAL FEDERATION University of London

# One week Residential Course in Advanced Rheumatology

The first full-time residential course in Rheumatology to be organized by the BPMF will be held from 7th to 11th July, 1980.

During the course, which will be based at five London hospitals, the following topics will be covered: the scope of rheumatology, the application of immunology to rheumatic diseases, osteoarthrosis and metabolic arthritis, inflammatory polyarthritides, systemic connective tissue disorders and management of the rheumatic diseases.

The fee for the course will be £180.00 which includes residence and all catering charges. Approval under APTS is being sought.

Further details and application forms are obtainable from the Secretary to the Rheumatology Course, British Postgraduate Medical Federation, 33 Millman Street, London, WC1N 3EJ (Telephone 01-831-6222 Ext. 24). Closing date for the receipt of application is 16th May, 1980.

#### Histocompatibility and Rheumatic Disease

The Proceedings of a Symposium organized by the Heberden Society

Edited by Derrick A. Brewerton

Speakers and Additional Discussants • Ankylosing spondylitis and HL-A 27 • Identification of HL-A antigens by serological criteria • Mixed lymphocyte reaction stimulating antigens, their detection and relation to disease, and other markers of the major histocompatibility system • The HL-A system and its association with immune response and disease • Disease predisposition immune responsiveness, and the fine structure of the HL-A supergene. A need for reappraisal • Family studies indicating genetic factors in rheumatic disease • Reiter's disease and HL-A 27 • HL-A 27 in reactive arthritis following infection • HL-A 27 and the spondylitis of chronic inflammatory bowel disease and psoriasis • HL-A 27 and acute anterior uveitis • HL-A antigens in juvenile chronic polyarthritis (Still's disease) • Family studies on ankylosing spondylitis • Family studies • Aberrant immunity in W27-positive rheumatic disease • Lymphocyte function in ankylosing spondylitis • Brief Clinical Reports • HL-A 27 and ankylosing spondylitis. A family study • Behçetş disease • Circinate erosive balanitis • Panel Discussion • Concluding Remarks • Bibliography

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There's a strong case for including Methrazone in your armamentarium of anti-arthritic agents. Methrazone reinforces your choice of treatment, providing effective relief from the chronic problem of pain, stiffness, inflammation and immobility.

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PRESCRIBING INFORMATION: Methrazone feprazone capsules 200mg. Action and Indications: Non-steroidal anti-inflammatory agent for rheumatoid arthritis and osteoarthritis. Contra-indications: Where there is a danger of cardiac decompensation; hepatic disease: history of peptic ulceration; blood dyscrasia; drug rash or known sensitivity to pyrazoles. Precautions, Warnings and Side effects: Concurrent therapy with plasma protein-bound agents; as for all pyrazole drugs, blood monitoring and surveillance for sodium and water retention are advised: caution in pregnancy during organogenesis. Mild gastric intolerance, rashes, and occasional headache have been reported. Dosage: Adults only: 200-600mg daily in divided doses by mouth after food. Pack size and basic NHS price (UK only) 100 capsules, £9.90. PL 0015-0071 ▼ For full prescribing information please see data sheet. WB Pharmaceuticals Ltd POBox 23 Bracknell Berkshire RG12 4YS.

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#### **New strength tablet from Geigy**



# VOLTAROL® 50

diclofenac sodium

bridges the gap between efficacy and tolerability

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Rheumatoid arthritis

**Osteoarthritis** 



**Arthritis** 

- ★ 24 hour cover
- **★** Highly effective
- ★ Low level of side effects

# 2 capsules at night

#### Prescribing Information

Prescribing Information

Presentation 300 mg Capsules Dark blue capsules each containing 300 mg Capsules Dark blue capsules each containing 300 mg Capsules Dark blue capsules each containing 300 mg capsules are supported to the symptomatic heatment of the capsules and the symptomatic heatment of the capsules and the capsules are supported to dead doses. When cateristican be accounted to specify the capsules are supported to dead doses. When cateristican be accounted when the capsules are supported to the capsules are capsules are

to strong to the arisin is cropped in some patients. Drug interactions: When single is set if agrin 900 mg and leaderfer 500 mg are administered together, serum concentrations: depending and interactions are reduced by 10% 20%. Concomitant use of asporminal, reduced and strength of the reduced by 10% 20%. Concomitant use of asporminal, reduced and strength of the reduced by 10% 20%. Concomitant use of asporminal, reduced and strength of the reduced by 10% 20%. Concomitant use of asporminal, reduced and strength of the strength of the reduced and the reduced by 10% of the strength of the reduced by 10% of the strength of the reduced by 10% of the original strength of the reduced by 10% of the original strength of the reduced by 10% of the original strength of the reduced by 10% of the original strength of the reduced by 10% of the original strength of the reduced by 10% of the original strength of the reduced by 10% of the original strength of the reduced by 10% of the original strength of the reduced by 10% of the original strength of the reduced by 10% of the r



A preliminary study reported at the IXth European Congress of Rheumatology at Wiesbaden' indicates that there may be an important addition to that select group of drugs which can actually alter the disease profile of rheumatoid arthritis. This agent is Flenac, already known for its analgesic and anti-inflammatory properties, but now also shown to exhibit anti-rheumatoid effects comparable with those of D-penicillamine.

### anti-rheumatoid effects demonstrated in recent study

The report described a single-blind trial. conducted in two British hospital centres. comparing the effects of Flenac, D-penicillamine and placebo in three groups of patients (47 in all) with severe rheumatoid disease. All patients were maintained on their existing anti-inflammatory/analgesic treatment

throughout the study.

Clinical and laboratory parameters of disease activity were assessed three, four and six months after treatment began

Flenac significantly improved all clinical parameters of disease activity - the duration of early morning stiffness was reduced and severity of pain decreased, joint size, grip strength and articular index

Laboratory parameters of rheumatoid activity - E.S.R., C-reactive protein and immunoglobulins - all showed decreases. In seven out of the eight seropositive

patients in the Flenac group a fall in rheumatoid factor titre was observed during the trial.

In the context of this preliminary study, Flenac was comparable with, or superio. to, D-penicillamine in the majority of measured parameters. In contrast, 13 of the 15 patients on placebo had to be

withdrawn from the trial 12 of them because of lack of effect

The total number of side-effects reported in the Flenac group (7) was not significantly different from that reported in the placebo group (5), whilst a total of 18 side-effects was reported in the group receiving D-penicillamine.

	Flenac			D-penicillamine		
	after 3 months	after 4 months	after 6 months	after 3 months	after 4 months	after 6 months
Early morning stiffness (minutes)	<b>-2</b> 5	-36*	-37°	+20	-26	-60**
Articular index	-38	-7.9	-9.2°	-1.6	-1.9	-0.9
Ring size	-6	-14**	~18**	-3	-6	-16**
Grip strength (mm Hg)	+20	+58	- 68*	+2	+23	+37
Pain - visual analogue scale	-13	-22**	-35**	-1	-6	-14
C-reactive protein (mg 100ml ')	-0.02	~1.7*	-1.6*	+1.3	-0.04	-0.5
ESR (mm/hr 1)	-B	-18**	-9	-18**	-13°	-20°
IgM (mg 100ml *)	-30*	-12	15	-8	-4	+3
lgG (mg 100ml ¹)	-32*	-300*	-240**	+179	-62	+80

## **FLENAC**

#### analgesic, anti-inflammatory and now shown to exert demonstrable anti-rheumatoid effects

Presentation Tablets of 300mg fenciolenac.

Indications Chronic and sub-acute rheumatological conditions such as osteoarthrosis, rheumatoid arthritis, ankylosing spondylitis.

Dosage and administration Adults: 600-1200 mg (2-4 tablets) daily, in divided doses (morning and night) with or after food. Flenac is not recommended for children.

Contra-Indications Active peptic ulceration or gastric bleeding.

Warnings Flenac should not at present be prescribed for children

or for pregnant or lactating women. Fienac should not be co-administered with anti-coagulants. Care should be taken whe treating patients with known renal or hepatic dysfunction, eczema, asthma, or sensitivity to other non-steroidal anti-inflammatory.

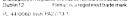
drugs
Note Flenac interferes with thyroid function tests.

**Side effects** Gastro-intestinal symptoms sufficient to require discontinuing treatment are rare. Rashes have occurred, but have resolved shortly after withdrawal of the drug.

N.H.S. Price £11.24 pack of 100

\* Paper presented at IXth European Congress of Rheumatology, Wiesbaden, Germany, Sept. 1979.

Additional information is available from Reckit & Colman Pharmaceutical Division, Hull HUB 7DS Tel: 0482 26151 Distributors in Republic of Ireland, Reckitts (Ireland) Ltd., Dublin 12 Flenac is a registered trade mark.





Presentation MERALEN 100mg Hard gelatin cansule with light blue body and dark blue cap Composition Each 100mg capsule contains. Flufenamic Acid BP 100mg.
Action MERALEN is an anti-Anti-inflammatory Analgesic Capsules inflammatory analgesic known chemically as N- (α α α -trifluoro-Flufenamic Acid BP m-tolyl) anthranilic acid. the valid alternative in arthritis Indications For the relief of pain in rheumatoid arthritis osteoarthrosis and ankylosing spandylitis Dosage and administration (Oral) Adults: 600mg daily in divided doses, preferably with food. After four weeks continuous therapy, reduced maintenance You and your arthritic patient will have dosage of 400mg, daily may be experienced the time-consuming search satisfactory in some patients. For those weighing less than 45kg through the available non-steroidal (100 lb.) dosage should not exceed 10mg perkg bodyweight daily Children: MERALEN should armamentarium for the drug "... combines optimal effectiveness and absence not be given to children of 14 of adverse effects' Contra-Indications warnings etc. Contra-indicated in MERALEN may just be the right drug for many pregnancy; in inflammatory bowel disease and in patients suffering of your arthritic patients. from gastric and/or intestinal ulceration, and in renal or hepatic MERALEN belongs to the fenamates, totally Precautions Concurrent therapy unrelated to the propionic acid derivatives. with other plasma protein binding salicylates and phenyl-pyrazolone derivatives. drugs, eg., anti-coagulants, may necessitate a modification in "Flufenamic acid (MERALEN) appears to be Warnings and Adverse Effects useful as an anti-rheumatic drug, especially in iscontinue administration o MERALEN if diarrhoea or rheumatoid and osteo-arthritis, where abnormalities in liver function tests long-standing pain and joint inflammatory occur. The commonest side effect processes were still active. It gives relief and is gastro-intestinal upset characterised by nausea, vomiting even enhances mobility where joint pathology or epigastric discomfort. If gastro intestinal intolerance occurs and incapacitates movement' the physician attributes this to the drug, the dose of MERALEN may be reduced by one half. If signs and symptoms do not subside, the drug may need to be completely discontinued. The physician may be able to increase the daily. dosage of MERALEN again, once these symptoms have subsided In some patients the gastre intestinal symptoms subside spontaneously without reduction of desage of MERALEN MERALEN should be discontinued. in the event of rash suspected to be a sensitivity reaction. One case of purpura and four of leucopenia have been reported, one of the latter had been diagnosed as spontaneous leucopenia before MERALEN therapy had commenced Bronchospasm may be precipitated in patients suffering from, or with a previous history of bronchial asthma of allergic disease Treatment of overdosage Gastric lavage in the conscious patient and intensive supportive therapy where necessary Activated charcoal has been shown to be a powerful absorbent for MERALEN and its metabolites. Studies in experimental animals showed that a 5 to 1 ratio of charcoal resulted in considerable suppression of absorption of the Pharmaceutical precautions No special storage precautions
Legal category Package Quantities 100mg capsules available in a pack of 100 capsules
Basic NHS cost £4 40 for 100 capsules (June 1979) Product Licence No. MERALEN Capsules 100mg 0027/0034 References: 1 Focus or Rheumatology (1978) Supplement to Doctor 2 Var-Collier, P.E. (1970), Medicar Proceedings, 16, 342 Merrell Division, Richardson Merrell Ltd., 20 Queensmere Slough, Berks St 11YY

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# Arthritis When a nonsteroidal anti-inflammatory agent is indicated...

...a potent antiprostaglandin must be considered as first line treatment

# Froben is a potent antiprostaglandin

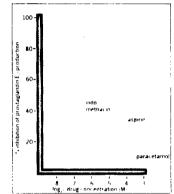
It is now accepted that the analgesic and anti-inflammatory effect of nonsteroidal anti-inflammatory drugs (NSAIDs) is due mainly to their inhibitory action on prostaglandin

synthetase activity. It has also been well demonstrated that the level of antiprostaglandin activity exhibited by these drugs correlates

closely with their clinical analgesic and anti-inflammatory potency.

Since the antiprostaglandin activity of a drug bears a relationship to its clinical potency, the higher the level of this activity, the more likely it is that the drug will be effective in reducing pain and inflammation.

"...the study in vitro of the inhibitory effect of a drug on prostaglandin synthetase activity may be used to predict, in most cases, its anti-inflammatory activity..."



A potent antiprostaglandin must be considered as first line treatment in arthritis.

"Concurrent studies in our department have shown flurbiprofer to be one of the most powerful of the anti-inflammatory drugs in inhibiting the action of prostaglandin synthetase from rheumatoid synovium..."

#### Froben is a potent antiprostaglandin.

In the treatment of osteoarthrosis, rheumatoid disease and ankylosing spondylitis. Froben provides the powerful analgesic and anti-inflammatory action needed to effectively relieve the pain and stiffness of arthritis and so provide a progressive improvement in the mobility of the arthritic patient.

Prescribing Information

**Precursors** 

Intermediates

Prostaglandins and related substances

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flurbiprofen

Arthritis:tomorrow there may be a cure. Today,there's Froben.

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The combination of simple language and straightforward line drawings has made the

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