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Boots-Cont.

nal irritation, undiluted large single doses (more than a tablespoonful or 15 ml) of TWIN-K-Cl are to be avoided. To minimize gastrointestinal irritation, it is recommended

that TWIN-K-Cl be taken with meals or diluted with water or fruit juice. A tablespoonful (15 ml) in 8 ounces of water is approximately isotonic. More than a single tablespoonful ould not be taken without prior dilution

Deviations from this schedule may be indicated, since no average total daily dose can be defined, but must be governed by close observation for clinical effects.

HOW SUPPLIED

Bottles of 1 pint (16 fl. oz.) NDC 0524-0022-16

Caution: Federal law prohibits dispensing without prescription.

Manufactured and Distributed by

Boots Pharmaceuticals, Inc. Shreveport, Louisiana 71106 U.S.A. 0022-02

Rev 11/83

ZORnrin® (aspirin)

(Zero-Order Release)

DESCRIPTION

Each capsule-shaped tablet of ZORPRIN contains 800 mg of aspirin, formulated in a special matrix to control the rele of aspirin after ingestion. The in vitro release of aspirin from the tablet matrix is linear and independent of the concentration of the drug. The structural formula of aspirin is



CLINICAL PHARMACOLOGY

Aspirin, as contained in ZORPRIN, is a salicylate that has demonstrated anti-inflammatory and analgesic activity. Its mode of action as an anti-inflammatory and analgesic agent may be due to the inhibition of synthesis of prostaglandins, although its exact mode of action is not known.

Shown very little aspirin to be released in acidic solutions; whereas, ZORPRIN releases the majority of its aspirin (90%) in a zero-order mode at a neutral to alkaline pH. It is this pH dependence of ZORPRIN that reduces direct contact between aspirin and the gastric mucosa, resulting in a reduc-tion of its gastrointestinal side-effect potential. Bioavailability data for ZORPRIN have confirmed that plasma levels of salicylic acid and acetylsalicylic acid can be

measured 24 hours after a single oral dose. This substanti-ates a twice daily dose regimen. Multiple dose bioavailability studies showed similar steady-state salicylate levels for ZOR-PRIN as for conventional release aspirin using the same total daily dose. Long-term monitoring of salicylate levels showed no signs of accumulation once steady-state levels were reached (4–6 days).

Studies of in vivo prostaglandin levels (PGE2) have shown ZORPRIN plasma levels of salicylic acid and acetylsalicylic acid to reduce PGE2 levels 14 hours after a single oral 800 mg dose while an equivalent dose of aspirin produced a re-duction of PGE2 levels only through six hours. ZORPRIN's effect on other prostaglandins than PGE2 has not been determined.

Salicylates are excreted mainly by the kidney, and from studies in humans it appears that salicylate is excreted in the urine as free salicylic acid (10%); salicyluric acid (75%); salicylic phenolic (10%); acyl glucuronides (5%) and gentisic acid (<1%).

INDICATIONS & USAGE

ZORPRIN is indicated for the treatment of rheumatoid ar-thritis and osteoarthritis. The safety and efficacy of ZOR-PRIN have not been established in those rheumatoid arthritic patients who are designated by the American Rheu-matism Association as Functional Class IV (incapacitated, largely or wholly bedridden, or confined to wheelchair, little or no self-care).

In patients treated with ZORPRIN for rheumatoid arthritis and osteoarthritis, the anti-inflammatory action of ZOR-PRIN has been shown by reduction in pain, morning stiffness and disease activity as assessed by both the investiga-

In clinical studies in patients with rheumatoid arthritis and osteoarthritis, ZORPRIN has been shown to be comparable to conventional release aspirin in controlling the aforemen-tioned signs and symptoms of disease activity and to be associated with a statistically significant reduction in the milder gastrointestinal side effects (see ADVERSE REACTIONS). ZORPRIN may be well tolerated in some patients who have

Product Information

had gastrointestinal side effects with conventional release aspirin, but these patients when treated with ZORPRIN should be carefully followed for signs and symptoms of gastrointestinal bleeding and ulceration.

Since there have been no controlled trials to demonstrate whether or not there is any beneficial effect or harmful interaction with the use of ZORPRIN in conjunction with other nonsteroidal anti-inflammatory agents (NSAI), the combination cannot be recommended (see Drug Interactions)

Because of its relatively long onset of action, ZORPRIN is not recommended for antipyresis or for short-term analgesia. CONTRAINDICATIONS

ZORPRIN should not be used in patients known to be hypersensitive to salicylates or in individuals with the syndrome of nasal polyps, angioedema, bronchospastic reactivity to aspinasa por ps, angreetena, biotrisspaste reactive or ap-rin, renal or hepatic insufficiency, hypoprothormbinemia or other bleeding disorders. ZORPRIN is not recommended for children under 12 years of age; it is contraindicated in all children with fever accompanied by dehydration.

WARNINGS

R

ZORPRIN should be used with caution when anticoagulants are prescribed concurrently, since aspirin may depress plate-let aggregation and increase bleeding time. Large doses of salicylates may have hypoglycemic action and enhance the effect of the oral hypoglycemics; concomitant use therefore is not recommended. However, if such use is necessary, dosage of the hypoglycemic agent must be reduced. The hypoglyce-mic action of the salicylates may also necessitate adjustment of the insulin requirements of diabetics.

While salicylates in large doses have a uricosuric effect. smaller amounts may reduce urate excretion and incre serum uric acid.

Although ZORPRIN is not indicated for the treatment of chicken pox or flu, nor for use in children under the age of twelve, children and teenagers, before using this product for or while suffering from chicken pox, influenza or flu symp toms, should consult a doctor. Aspirin may increase the risk of developing Reye's Syndrome, a rare but serious illness. USE IN PREGNANCY: Aspirin can harm the fetus when administered to pregnant women. Aspirin interferes with maternal and infant hemostasis and may lengthen the duration of pregnancy and parturition. Aspirin has produced teratogenic effects and increases the incidence of stillbirths and neonatal deaths in animals.

If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus.

Aspirin should not be taken during the last 3 months of pregnancy.

PRECAUTIONS

Appropriate precautions should be taken in prescribing ZORPRIN for patients who are known to be sensitive to aspirin or salicylates. Particular care should be used when prescribing this medication for patients with erosive gastritis, peptic ulcer, mild diabetes or gout. As with all salicylate drugs, caution should be exercised in prescribing ZORPRIN for those patients with bleeding tendencies or those on anticoagulants.

In order to avoid exacerbation of disease or adrenal insufficiency, patients who have been on prolonged corticosteroid therapy should have their therapy tapered slowly rather than discontinued abruptly when ZORPRIN is made a part

of the treatment program. Patients receiving large doses of aspirin and/or prolonged therapy may develop mild salicylate intoxication (salicylism) that may be reversed by dosage reduction. Salicylates can produce changes in thyroid function tests.

Salicylates should be used with caution in patients with severe hepatic damage, preexisting hypoprothrombinemia, Vitamin K deficiency and in those undergoing surgery. Since aspirin release from ZORPRIN® (aspirin) is pH de-pendent, it may change in those conditions where the gastric

pH has been increased as a result of antacids, gastric secretion inhibitors or surgical procedures. Drug Interactions: (See WARNINGS) Aspirin may inter-

fere with some anticoagulant and antidiabetic drugs. Drugs which lower serum uric acid by increasing uric acid excretion (uricosurics) may be antagonized by the concomitant use of aspirin, particularly in doses less than 2.0 grams/day. Nonsteroidal anti-inflammatory drugs may be competitively displaced from their albumin binding sites by aspirin. This effect may negate the clinical efficacy of both drugs. Also, the gastrointestinal inflammatory potential of nonsteroidal anti-inflammatory drugs may be potentiated by aspirin. The combination of alcohol and aspirin may increase the risk of gastrointestinal bleeding.

Aspirin may enhance the activity of methotrexate and increase its toxicity.

Sodium excretion produced by spironolactone may be de creased in the presence of salicylates. Concomitant adminis-tration of other anti-inflammatory drugs may increase the risk of gastrointestinal ulceration. Urinary alkalinizers decrease aspirin's effectiveness by increasing the rate of sali-

cylate renal excretion. Phenobarbital decreases asni effectiveness by enzyme induction. Pregnancy Category D. See WARNINGS Section.

Nursing Mothers: Salicylates have been detected in s breast milk of nursing mothers. Because of the potential serious adverse reactions in nursing infants from aspir decision should be made whether to discontinue nursing discontinue the drug, taking into account the benefit de drug to the mother

ADVERSE REACTIONS

Hematologic: Aspirin interferes with hemostasis. Paties with a history of blood coagulation defects or receiving a coagulant drugs or with severe anemia should avoid Zo PRIN. Aspirin used chronically may cause a persistent in deficiency anemia.

Gastrointestinal: Aspirin may potentiate peptic ulcer cause stomach distress or heartburn. Aspirin can cause increase in occult bleeding and in some patients may gastrointestinal bleeding. However, the greatest release active drug from ZORPRIN is designed to occur in the sm intestine over a period of time. This has resulted in ferral symptomatic gastrointestinal side effects.

Allergic: Allergic and anaphylactic reactions have be noted when hypersensitive individuals have taken astro-Fatal anaphylactic shock, while not common, has been a ported.

Respiratory: Aspirin intolerance, manifested by exacer tion of bronchospasm and rhinitis, may occur in patient with a history of nasal polyps, asthma, or rhinitis. The me anism of this intolerance is unknown but may be the result aspirin-induced shunting of prostaglandin synthesis to the lipoxygenase pathway and the liberation of leukotriese e.g., slow-reacting substance of anaphylaxis.

Dermatologic: Hives, rashes, and angioedema may are especially in patients suffering from chronic urticaria Central Nervous System: Taken in overdoses, aspirin vides stimulation which may be manifested by tinnitus lowing initial stimulation, depression of the central nerv system may be noted

Renal: Aspirin rarely may aggravate chronic kidney a ease

Hepatic: High doses of aspirin have been reported to m duce reversible hepatic dysfunction.

OVERDOSAGE

Overdosage, if it occurs would produce the usual sympton of salicylism: tinnitus, vertigo, headache, confusion, dre ness, sweating, hyperventilation, vomiting or dara Plasma salicylate levels in adults may range from 50 b mg/dl in the mildly intoxicated patient to 110 to 160 mg in the severely intoxicated patient. An arterial blood particular of sales of the severely indicate serious poisoning. The clearance of sales of the severely severel ates in children is much slower than adults and this sho receive due consideration when aspirin overdosages occ infants; salicylate half-lives of 30 hours have been report in infants 4-8 months old. Treatment for mild intoxic should include emptying the stomach with an emetic, or tric lavage with 5% sodium bicarbonate. Individuals ing from severe intoxication should, in addition, have for diuresis by intravenous infusions of sodium bicarbonate dextrose or sodium lactate. In extreme cases, hemodialysi peritoneal dialysis may be required.

(*A plasma salicylate level of 160 mg/dl in an adult is ally considered lethal.)

DOSAGE & ADMINISTRATION

In order to achieve a zero-order release, the tablets of D PRIN should be swallowed intact. Breaking the tablets or disrupting the structure will alu

release profile of the drug. It is recommended that ZORPRIN be taken with suffer

It is recommended that ZORFALLY to taken which quantities of fluids (8 oz. or more). Adult Dosage: For mild to moderate pain associated rheumatoid arthritis and osteoarthritis, the recommen-initial dose of ZORPRIN is 1600 mg (2.800 mg tables) in the second source of a sufficiency of a sufficiency of a sufficiency of a sufficiency of a sufficience of a sufficiency of a sufficie day. Because of ZORPRIN's prolonged release of aspirin the bloodstream, the tablets may be taken as a bid a Further adjustment of the dosage should be determine the physician, based upon the patient's response and a Since it will take 4-6 days to reach steady-state levels of cylic acid with ZORPRIN, it is recommended that dose given for at least one week before further adjustme general, patients with rheumatoid arthritis seem to n higher doses of ZORPRIN than do patients with osteo tis

ZORPRIN is not recommended for children below the set 12.

HOW SUPPLIED

ZORPRIN Tablets 800 mg; plain, white capsule-shaped lets

Bottles of 100 Tablets-NDC 0524-0057-01 Caution: Federal law prohibits dispensing without a scription.

nossible revisions
US Patent No. 4,308,251 BOOTS PHARMACEUTICALS, INC. Shreveport, Louisiana 71106 USA 0057-08
Rev. 381 Shown in Product Identification Section, page 406
Boyle & Company 1030 SO. ARROYO PARKWAY PASADENA, CA 91105
E B
Oral Solution
PRODUCT OVERVIEW
KEY FACTS
Citra Forte Syrup is a unique combination of two anomista- citra and a proven antitussive in a sodium free, pleasant usting vehicle.
MAJOR USES
Otra Forte has been used successfully for many years to provide cough suppressant action where a narcotic antitus- sers is indicated or where the cough is caused by a histamine
CAFETY INFORMATION
Citra Forte is contraindicated in patients with allergies to the formula ingredients and should be used with caution in patients with hypertension, cardiac disease, diabetes or hy-
PERCEIBING INFORMATION
E B
Oral Solution
COMPOSITION
ea. 5 ml
habit forming
Pheniramine Maleate
Acobol 2% in a pleasant flavored syrup base with Ascorbic Acid 30 mg and Potassium Citrate 150 mg.
ACTION AND USES
CITRA FORTE SYRUP: Antitussive, Expectorant, Antihis- taminic, Provides effective cough suppressant action sodium free. Two antihistamines to help control allergic reactions.
ADMINISTRATION AND DOSAGE
cTTRA FORTE SYRUP: Usual Adult Dose.—One or two tea- spoonfuls every 3 or 4 hours. Children (6-12)—one-half adult

losage. Children under 6 years—according to standard method of calculation. PRECAUTIONS

Patients should be advised to avoid using machinery or driving until response to antihistamines is established. Use with caution in patients with idiosyncrasies to formula ingredi-ents. CITRA FORTE should be used with caution in patients with hypertension, cardiac disease, diabetes or hyperthyroi-

HOW SUPPLIED

CITRA FORTE SYRUP in pints and gallons. Caution: Federal (USA) law prohibits dispensing without prescription

TRIVA® DOUCHE POWDER FOR VAGINAL USE ONLY

PRODUCT OVERVIEW KEY FACTS

Twa powder effectively treats Monilial and Trichomonal infections as well as non-specific Vulvovaginitis. Treatment is antiseptic as well as symptomatic.

MAJOR USES

hen used as directed as a douche, chronic, stubborn cases of Monlia and Trichomonas occurring separately or together an be eradicated along with symptoms.

SAFETY INFORMATION

asionally irritation occurs at the onset of treatment. Triva is contraindicated in patients with allergies to the fornula ingredients

PRESCRIBING INFORMATION

TRIVA® DOUCUE DOWNER	
FOR VAGINAL LISE ONLY	
COMPOSITION	
Ining D	
Orympic bouche Powder contains (per	3 g packet):
Alky A Benzoate	
Aryl Sulfonate	1 05 g (35%)

Disodium Edetate	
odium Sulfate	
actose (dispersant)	
ACTION AND USES	

TRIVA DOUCHE POWDER effectively treats Monilial and Trichomonal as well as Non-specific Vulvovaginitis. Chronic, stubborn cases as well as Monilia and Trichomonas occurring together can be successfully treated. Organisms are eradicated along with symptoms. Vaginal flora and pH return to normal spontaneously. Trichomonacidal, bacterici-dal, detergent and chelating agents are provided for a safe, simple, patient-administered treatment without need for restraints on patient's activities. Flushing and detergent action of the douche quickly destroys the infection and stops the symptoms.

Effectiveness of TRIVA DOUCHE POWDER has been demonstrated by clinical tests. Both diagnosis and cure were es-tablished by the use of special Papanicolaou smear and Sabouraud culture

ADMINISTRATION AND DOSAGE

TRIVA DOUCHE POWDER (individual packet dissolved in 1 qt water) is effective in most cases of Monilial, Trichomonal and Non-specific Vulvovaginitis. It provides rapid relief from symptoms. Particularly useful in pre- and post-operative and post-partum care. May be used adjunctively with oral treatment for Trichomonas.

TRIVA DOUCHE POWDER, sig, douche (1 packet in 1 qt water) morning and night for 12 days. IMPORTANT: During menstruation, continue treatment as

instructed.

PRECAUTIONS

I

Occasionally, irritation occurs at the onset of treatment. In such cases it is recommended that the douche be prescribed in one-half or less than usual strength for a day or two, then treatment resumed as directed. SIDE EFFECTS

None.

CONTRAINDICATIONS Allergy or hypersensitivity to any ingredient.

HOW SUPPLIED

TRIVA DOUCHE POWDER-24 individual 3 G packets.

Braintree Laboratories, Inc. 285 WASHINGTON STREET BRAINTREE, MA 02184

GOLYTELY®

[go-līt 'lē] PEG-3350 and Electrolytes For Oral Solution

DESCRIPTION

A white powder for reconstitution containing 236 g polyethylene glycol 3350, 22.74 g sodium sulfate, 6.74 g sodium bicar-bonate, 5.86 g sodium chloride, and 2.97 g potassium chlobonate, 5.86 g sodium chloride, and 2.97 g potassium chlo-ride. When dissolved in water to a volume of 4 liters, GoLYTELY is an isosmotic solution having a mildly salty taste. GoLYTELY is administered orally or via nasogastric tube.

CLINICAL PHARMACOLOGY

GoLYTELY induces a diarrhea which rapidly cleanses the bowel, usually within four hours. The osmotic activity of polyethylene glycol 3350 and the electrolyte concentration result in virtually no net absorption or excretion of ions or water. Accordingly, large volumes may be administered without significant changes in fluid or electrolyte balance. INDICATIONS AND USAGE

GoLYTELY is indicated for bowel cleansing prior to colonoscopy and barium enema x-ray examination

CONTRAINDICATIONS

GoLYTELY is contraindicated in patients with gastrointestinal obstruction, gastric retention, bowel perforation, toxic colitis, toxic megacolon or ileus.

WARNINGS

No additional ingredients, e.g. flavorings, should be added to the solution. GoLYTELY should be used with caution in patients with severe ulcerative colitis.

PRECAUTIONS

General: Patients with impaired gag reflex, unconscious or semiconscious patients, and patients prone to regurgitation or aspiration, should be observed during the administration of GoLYTELY, especially if it is administered via nasogastric tube. If a patient experiences severe bloating, distention or abdominal pain, administration should be slowed or temporarily discontinued until the symptoms abate. If gastrointestinal obstruction or perforation is suspected, appropriate studies should be performed to rule out these conditions be-fore administration of GoLYTELY.

Information for patients: GoLYTELY produces a watery stool which cleanses the bowel before examination. Prepare the solution according to the instructions on the bottle. It is more palatable if chilled. For best results, no solid food should be consumed during the 3 to 4 hour period before drinking the solution, but in no case should solid foods be eaten within 2 hours of taking GoLYTELY.

Drink 240 ml (8 oz.) every 10 minutes. Rapid drinking of each portion is better than drinking small amounts continuously. The first bowel movement should occur approximately one hour after the start of GoLYTELY administration. You may experience some abdominal bloating and distention before the bowels start to move. If severe discomfort or distention occur, stop drinking temporarily or drink each portion at longer intervals until these symptoms disappear. Continue drinking until the watery stool is clear and free of solid matter. This usually requires at least 3 liters and it is best to drink all of the solution. Any unused portion should be discarded

Drug Interactions: Oral medication administered within one hour of the start of administration of GoLYTELY may be flushed from the gastrointestinal tract and not absorbed. Carcinogenesis, Mutagenesis, Impairment of Fertility:

Carcinogenic and reproductive studies with animals have not been performed.

Pregnancy: Category C. Animal reproduction studies have not been conducted with GoLYTELY. It is also not known whether GoLYTELY can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. GoLYTELY should be given to a pregnant woman only if clearly needed.

Pediatric Use: Safety and effectiveness in children have not been established

ADVERSE REACTIONS

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Nausea, abdominal fullness and bloating are the most common adverse reactions (occurring in up to 50% of patients) to administration of GoLYTELY. Abdominal cramps, vomiting and anal irritation occur less frequently. These adverse reac-tions are transient and subside rapidly. Isolated cases of urticaria, rhinorrhea and dermatitis have been reported which may represent allergic reactions.

DOSAGE AND ADMINISTRATION

The recommended dose for adults is 4 liters of GoLYTELY solution prior to gastrointestinal examination, as ingestion of this dose produces a satisfactory preparation in over 95% of patients. Ideally the patient should fast for approximately three or four hours prior to GoLYTELY administration, but in no case should solid food be given for at least two hours before the solution is given.

GoLYTELY is usually administered orally, but may be given via nasogastric tube to patients who are unwilling or unable to drink the solution. **Oral administration** is at a rate of 240 ml (8 oz.) every 10 minutes, until 4 liters are consumed or the rectal effluent is clear. Rapid drinking of each portion is preferred to drinking small amounts continuously. Nasogastric tube administration is at the rate of 20-30 ml per minute (1.2-1.8 liters per hour). The first bowel movement should occur approximately one hour after the start of GoLYTELY administration.

Various regimens have been used. One method is to schedule patients for examination in midmorning or later, allowing the patients three hours for drinking and an additional one hour period for complete bowel evacuation. Another method is to administer GoLYTELY on the evening before the examination, particularly if the patient is to have a barium enema.

Preparation of the solution: GoLYTELY solution is pre-pared by filling the container to the 4 liter mark with water and shaking vigorously several times to insure that the ingredients are dissolved. Dissolution is facilitated by using akewarm water. The solution is more palatable if chilled before administration. The reconstituted solution should be refrigerated and used within 48 hours. Discard any unused portion.

HOW SUPPLIED

In powdered form, for oral administration as a solution fol-In powdered form, for oral administration as a solution for lowing reconstitution. Each disposable jug contains, in pow-dered form: polyethylene glycol 3350 236 g, sodium sulfate 22.74 g, sodium bicarbonate 6.74 g, sodium chloride 5.86 g, potassium chloride 2.97 g. When made up to 4 liters volume with water, the solution contains PEG 3350 17.6 mmol/L, sodium 125 mmol/L, sulfate 40 mmol/L, chloride 35 mmol/L, bicarbonate 20 mmol/L and potassium 10 mmol/L. CAUTION

Federal law prohibits dispensing without prescription. STORAGE

Store in sealed container at 59°-86°F. When reconstituted, keep solution refrigerated. Use within 48 hours. Discard unused portion.

Continued on next page

Merck Sharp & Dohme-Cont.

Hypokalemia may develop, especially with brisk diuresis, when severe cirrhosis is present, during concomitant use of corticosteroids or ACTH, or after prolonged therapy.

Interference with adequate oral electrolyte intake will contribute to hypokalemia. Hypokalemia can sensitize or exaggerate the response of the heart to the toxic effects of digitalis (e.g., increased ventricular irritability). Hypokalemia may be avoided or treated by use of potassium supplements such as foods with a high potassium content.

Although any chloride deficit is generally mild and usually does not require specific treatment except under extraordinary circumstances (as in liver disease or renal disease), chloride replacement may be required in the treatment of metabolic alkalosis.

Dilutional hyponatremia may occur in edematous patients in hot weather. Appropriate therapy is water restriction, rather than administration of salt, except in rare instances when the hyponatremia is life threatening. In actual salt depletion, appropriate replacement is the therapy of choice. Hyperuricemia may occur or acute gout may be precipitated in certain patients receiving thiazides. Insulin requirements in diabetic patients may be increased,

decreased, or unchanged. Latent diabetes mellitus may become manifest during thiazide therapy.

Thiazides may increase the responsiveness to tubocurarine. In some patients, the administration of a non-steroidal antiinflammatory agent can reduce the diuretic, natriuretic, and antihypertensive effects of loop, potassium-sparing and thia-zide diuretics. Therefore, when HYDROPRES and non-steroidal anti-inflammatory agents are used concomitantly, the patient should be observed closely to determine if the desired effect of the diuretic is obtained.

The antihypertensive effect of the drug may be enhanced in the postsympathectomy patient. Thiazides may decrease arterial responsiveness to norepinephrine. This diminution is not sufficient to preclude effectiveness of the pressor agent for therapeutic use

If progressive renal impairment becomes evident, consider withholding or discontinuing diuretic therapy. Thiazides may decrease serum PBI levels without signs of

thyroid disturbance. Thiazides have been shown to increase the urinary excretion

of magnesium; this may result in hypomagnesemia. Thiazides may decrease urinary calcium excretion. Thia-zides may cause intermittent and slight elevation of serum calcium in the absence of known disorders of calcium metab-olism. Marked hypercalcemia may be evidence of hidden hyperparathyroidism. Thiazides should be discontinued before carrying out tests for parathyroid function. Reservine

Since reserpine may increase gastric secretion and motility, it should be used cautiously in patients with a history of peptic ulcer, ulcerative colitis, or other gastrointestinal disor-der. This compound may precipitate biliary colic in patients with gallstones, or bronchial asthma in susceptible persons. Reserpine may cause hypotension including orthostatic hypotension.

In hypertensive patients on reserpine therapy significant hypotension and bradycardia may develop during surgical anesthesia. The anesthesiologist should be aware that reserpine has been taken, since it may be necessary to give vagal blocking agents parenterally to prevent or reverse hypotension and/or bradycardia.

Anxiety or depression, as well as psychosis, may develop during reserpine therapy. If depression is present when ther-apy is begun, it may be aggravated. Mental depression is unusual with reserpine doses of 0.25 mg daily or less. In any case, HYDROPRES should be discontinued at the first sign of depression. Extreme caution should be used in treating patients with a history of mental depression, and the possi-bility of suicide should be kept in mind.

As with most antihypertensive therapy, caution should be exercised when treating hypertensive patients with renal insufficiency, since they adjust poorly to lowered blood pres-sure levels. Use reserpine cautiously with digitalis and quini-dine; cardiac arrhythmias have occurred with reserpine preparations. When two or more antihypertensives are given, the individ-

ual dosages may have to be reduced to prevent excessive drop in blood pressure. In hypertensive patients with coronary artery disease, it is important to avoid a precipitous drop in

blood pressure. Animal tumorigenicity: Rodent studies have shown that reserpine is an animal tumorigen, causing an increased inci-dence of mammary fibroadenomas in female mice, malignant tumors of the seminal vesicles in male mice, and malig-nant adrenal medullary tumors in male rats. These findings arose in 2 year studies in which the drug was administered in the feed at concentrations of 5 and 10 ppm—about 100 to 300 times the usual human dose. The breast neoplasms are thought to be related to reserpine's prolactin-elevating ef-fect. Several other prolactin-elevating drugs have also been

Product Information

associated with an increased incidence of mammary neoplasia in rodents.

The extent to which these findings indicate a risk to humans is uncertain. Tissue culture experiments show that about

one-third of human breast tumors are prolactin-dependent in vitro, a factor of considerable importance if the use of the drug is contemplated in a patient with previously detected breast cancer. The possibility of an increased risk of breast cancer in reserpine users has been studied extensively; however, no firm conclusion has emerged. Although a few epidemiologic studies have suggested a slightly increased risk (less than twofold in all studies except one) in women who have used reserpine, other studies of generally similar design have not confirmed this. Epidemiologic studies conducted using other drugs (neuroleptic agents) that, like reserpine, increase prolactin levels and therefore would be considered rodent mammary carcinogens, have not shown an association between chronic administration of the drug and human mammary tumorigenesis. While long-term clinical observation has not suggested such an association, the available evidence is considered too limited to be conclusive at this time. An association of reserpine intake with pheochromocy toma or tumors of the seminal vesicles has not been explored.

ADVERSE REACTIONS

Hydrochlorothiazide

Body as a Whole: Weakness. Cardiovascular: Orthostatic hypotension (may be aggravated by alcohol, barbiturates, or narcotics). Digestive: Anorexia, gastric irritation, nausea, vomiting,

cramping, diarrhea, constipation, jaundice (intrahepatic cholestatic jaundice), pancreatitis, sialadenitis.

Hematologic: Leukopenia, agranulocytosis, thrombocyto-penia, aplastic anemia, hemolytic anemia. *Metabolic:* Hyperglycemia, glycosuria, hyperuricemia, electrolyte imbalance (see PRECAUTIONS).

Musculoskeletal: Muscle spasm.

Nervous System/Psychiatric: Dizziness, vertigo, paresthesias, headache, restlessness.

Special Senses: Transient blurred vision, xanthopsia. Hypersensitivity: Purpura, photosensitivity, rash, urticaria, necrotizing angiitis (vasculitis and cutaneous vasculitis), fever, respiratory distress including pneumonitis and pulmo-nary edema, anaphylactic reactions.

Whenever adverse reactions are moderate or severe, thiazide dosage should be reduced or therapy withdrawn. Reservine

Cardiovascular: Bradycardia, angina pectoris, arrhythmia, premature ventricular contractions, and other direct cardiac

effects (e.g., fluid retention, congestive failure). Digestive: Hypersecretion and increased motility, nausea, vomiting, anorexia, diarrhea, dryness of mouth, increased salivation.

Hematologic: Excessive bleeding following prostatic sur-Mervous System/Psychiatric: Excessive sedation, mental

depression, nightmares, headache, dizziness, syncope, nervousness, paradoxical anxiety, central nervous system sensi-tization (dull sensorium, deafness, glaucoma, uveitis, optic atrophy), parkinsonism (usually reversible with decreased dosage or discontinuance of therapy).

Respiratory: Nasal congestion, dyspnea, epistaxis, en-hanced susceptibility to colds.

Hypersensitivity: Flushing of skin, pruritus, rash. Urogenital: Dysuria, nonpuerperal lactation, impotence, decreased libido.

DOSAGE AND ADMINISTRATION

The initial dosage of HYDROPRES should conform to the dosages of the individual components established during The usual adult dosage of HYDROPRES 25 is 1 or 2 tablets

once or twice a day; that of HYDROPRES 50 is 1 tablet once or twice a day. Dosage may require adjustment according to the blood pressure response of the patient.

Careful observations for changes in blood pressure must be made when HYDROPRES is used with other antihypertensive drugs.

HOW SUPPLIED

No. 3265—Tablets HYDROPRES 25 are green, round, scored, compressed tablets, coded MSD 53. Each tablet conscored, compressed values, coded inholes being and the com-tains 25 mg of hydrochlorothiazide and 0.125 mg of reser-pine. They are supplied as follows: NDC 006-0053-82 in bottles of 100 NDC 006-0053-82 in bottles of 1000.

Show in Product Identification Section, page 418 No. 3266—Tablets HYDROPRES 50 are green, round, scored, compressed tablets, coded MSD 127. Each tablet con-

tains 50 mg of hydrochlorothiazide and 0.125 mg of p pine. They are supplied as follows: NDC 0006-0127-68 in bottles of 100 NDC 0006-0127-82 in bottles of 1000.

Shown in Product Identification Section, page 418 A.H.F.S. Category: 24:08 DC 7414633 Issued October 1985 COPYRIGHT © MERCK & CO., Ixc., 1984 All rights reserved

INDOCIN® Capsules, Oral Suspension and Suppositories (Indomethacin, MSD), U.S.P. INDOCIN® SR Capsule (Indomethacin, MSD), U.S.P.

DESCRIPTION

INDOCIN® (Indomethacin, MSD) cannot be considered simple analgesic and should not be used in conditions of than those recommended under INDICATIONS. INDOCIN is supplied in four dosage forms. Capsules IND ICIN for oral administration contain either 25 mg or 50 m indomethacin and the following inactive ingredients va-dal silicon dioxide, FD & C Blue 1, FD & C Red 3, put lactose, lecithin, magnesium stearate, and titanium d Capsules INDOCIN SR for sustained release oral and Capsules INFOCHT of the documentacia and the follow inactive ingredients: cellulose, confectioner's sugar, FD & Blue 1, FD & C Blue 2, FD & C Red 3, gelatin, hydroxyper methylcellulose, magnesium stearate, polyvinyl aver crotonic acid copolymer, starch, and titanium dioxide s pension INDOCIN for oral use contains 25 mg of indomet-cin per 5 mL, alcohol 1%, and sorbic acid 0.1% added a preservative and the following inactive ingredients tifoam AF emulsion, flavors, purified water, sodium hybrid ide or hydrochloric acid to adjust pH, sorbitol solution to canth. Suppositories INDOCIN for rectal use contain \$ of indomethacin and the following inactive ingredients erin, polyethylene glycol 8000, polyethylene glycol sodium chloride, edetic acid, butylated hydroxyanisde butylated hydroxytoluene. Indomethacin is a non-ster anti-inflammatory indole derivative designated chemi

1-(4-chlorobenzoyl)-5-methoxy-2-methyl-1H-index acetic acid. Indomethacin is practically insoluble in wat and sparingly soluble in alcohol. It has a pKa of 45 m stable in neutral or slightly acidic media and decompose strong alkali. The suspension has a pH of 4.0-5.0. The strong tural formula is:



CLINICAL PHARMACOLOGY

INDOCIN is a non-steroidal drug with anti-inflamma antipyretic and analgesic properties. Its mode of action that of other anti-inflammatory drugs, is not known H ever, its therapeutic action is not due to pituitary adress stimulation.

INDOCIN is a potent inhibitor of prostaglandin synthes vitro. Concentrations are reached during therapy a have been demonstrated to have an effect in vito are provided to have an effect in vito and potential Prostaglandins sensitize afferent nerves and potentiar action of bradykinin in inducing pain in animal mo Moreover, prostaglandins are known to be among the main to be among the tors of inflammation. Since indomethacin is an in prostaglandin synthesis, its mode of action may be due to decrease of prostaglandins in peripheral tissues. INDOCIN has been shown to be an effective anti-inflat tory agent, appropriate for long-term use in rheumstore thritis, ankylosing spondylitis, and osteoarthritis. INDOCIN afford which can

INDOCIN affords relief of symptoms; it does not alter to progressive course of the underlying disease. INDOCIN suppresses inflammation in rheumatoid article as demonstrated by relief of pain, and reduction of le swelling and tenderness. Improvement in patients the with INDOCIN for rheumatoid arthritis has been be strated by a reduction in joint swelling, average num joints involved and more strategies are average num joints involved, and morning stiffness; by increased ma as demonstrated by a decrease in walking time; and be proved functional as the stiffness. proved functional capability as demonstrated by an inclusion of the second seco

in grip strength. Capsules INDOCIN have been found effective in re the pain, reducing the fever, swelling, redness, and tan ness of acute gouty arthritis. Capsules INDOCIN rather Capsules INDOCIN. ness of acute gouty arthritis. Capsules INDOCIN rame Capsules INDOCIN SR are recommended for treatment acute gouty arthritis—see INDICATIONS. Following single oral doses of Capsules INDOCIN 257 50 mg, indomethacin is readily absorbed, attaining plasma concentrations of about 1 and 2 mcg/mL rece

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Product Information

about 2 hours. Orally administered Capsules INDOrually 100% bioavailable, with 90% of the dose hin 4 hours. A single 50 mg dose of Oral Suspen or thin 4 nours. It single of hig disc of or at Suspen-OCIN was found to be bioequivalent to a 50 mg IN-Docin was found to be bioequivalent to a 50 mg IN-come when each was administered with food.

NDOCIN SR 75 mg are designed to release 25 mg initially and the remaining 50 mg over approxihours (90% of dose absorbed by 12 hours). When 12 hours (90% of dose absorbed by 12 hours). When down a 24-hour period, the cumulative amount and are of indomethacin absorption from a single Cap-constant of the second second second second second second period second second second second second second second period second secon NOCIN SR are comparable to those of 3 do NDOCIN given at 4-6 hour intervals.

ancentrations of indomethacin fluctuate less and sistained following administration of Capsules SR than following administration of 25 mg Cap-DOCIN given at 4-6 hour intervals. In multiple-dose DOCIN given at 4-0 horn mervans. in multiple-dose sats the mean daily steady-state plasma level of man attained with daily administration of Cap-DOCIN SR 75 mg was indistinguishable from that DOCIN SR 10 mg was industinguishable from that copules INDOCIN 25 mg given at 0, 6 and 12 it, However, there was a significant difference in the plasma levels between the two dosage regi-tion plasma levels between the two dosage regipecially after 12 hours.

edinical studies of safety and efficacy in patients enthritis have shown that one Capsule INDOCIN dinically comparable to one 25 mg Capsule INDOCIN and in controlled clinical studies in patients with and in controlled clinical studies in patients with and arthritis, one Capsule INDOCIN SR taken in the and artificity, one capsule in DOCIN's in taken in the and one in the evening were clinically indistin-er from one 50 mg Capsule INDOCIN t.i.d. that is eliminated via renal excretion, metabolism,

excretion. Indomethacin undergoes appreciable simated to be about 4.5 hours. With a typical thera-minen of 25 or 50 mg t.i.d., the steady-state plasma tions of indomethacin are an average 1.4 times llowing the first dose.

the fallowing the HI'st dose. The of absorption is more rapid from the rectal supposi-tion from Capsules INDOCIN. Ordinarily, therefore, al amount absorbed from the suppository would be not to be at least equivalent to the capsule. In concinical trials, however, the amount of indomethacin was found to be somewhat less (80–90%) than that the from Capsules INDOCIN. This is probably because subjects did not retain the material from the supposiin the one hour necessary to assure complete absorption Store the suppository dissolves rather quickly rather melting slowly, it is seldom recovered in recognizable If the patient retains the suppository for more than a

schacin exists in the plasma as the parent drug and its schacin exists in the plasma as the parent drug and its al in the unconjugated form. About 60 percent of an losse is recovered in urine as drug and metabolites (26 at as indomethacin and its glucuronide), and 33 percent overed in feces (1.5 percent as indomethacin).

the expected range of therapeutic plasma concentra-

troscopic study in 45 healthy subjects, the number of ne mucosal abnormalities was significantly higher in group receiving Capsules INDOCIN than in the group Suppositories INDOCIN or placebo.

astrointestinal adverse effects with Suppositories reals INDOCIN was comparable. The incidence of gastrointestinal adverse effects was greater in the sitory group

MCATIONS

chacin has been found effective in active stages of the

ang. Serate to severe rheumatoid arthritis including acute

trate to severe ankylosing spondylitis

derate to severe osteoarthritis. Me painful shoulder (bursitis and/or tendinitis).

In gouty arthritis.

is for Capsules INDOCIN except acute gouty arthritis. CON may enable the reduction of steroid dosage in pareceiving steroids for the more severe forms of rheuarthritis. In such instances the steroid dosage should ced slowly and the patients followed very closely for

and a start of the patients of the second se produce any greater therapeutic effect than the use DOCIN alone. Furthermore, in one of these clinical the incidence of gastrointestinal side effects was analy increased with combined therapy (see DRUG RACTIONS).

CONTRAINDICATIONS

INDOCIN should not be used in:

Patients who are hypersensitive to this product. Patients in whom acute asthmatic attacks, urticaria, or rhinitis are precipitated by aspirin or other non-steroidal antiinflammatory agents. Suppositories INDOCIN are contraindicated in patients with

a history of proctitis or recent rectal bleeding.

WARNINGS

General: Because of the variability of the potential of INDOCIN to cause adverse reactions in the individual patient, the following are strongly recommended: 1. The lowest possible effective dose for the individual pa-

- tient should be prescribed. Increased dosage tends to in-crease adverse effects, particularly in doses over 150–200 mg/day, without corresponding increase in clinical benefite
- 2. Careful instructions to, and observations of, the individual patient are essential to the prevention of serious adverse reactions. As advancing years appear to increase the possi-bility of adverse reactions, INDOCIN should be used with greater care in the aged. Effectiveness of INDOCIN in children has not been estab
- lished. INDOCIN should not be prescribed for children 14 years of age and younger unless toxicity or lack of efficacy associated with other drugs warrants the risk. In experience with more than 900 children reported in the

literature or to Merck Sharp and Dohme who were treated with Capsules INDOCIN, side effects in children were comparable to those reported in adults. Experience in children has been confined to the use of Capsules INDOCIN. If a decision is made to use indomethacin for children two years of age or older, such patients should be monitored closely and periodic assessment of liver function is recommended. There have been cases of hepatotoxicity reported in children with juvenile rheumatoid arthritis, including fatalities.

If indomethacin treatment is instituted, a suggested starting dose is 2 mg/kg/day given in divided doses. Maximum daily dosage should not exceed 4 mg/kg/day or 150-200 mg/day, whichever is less. As symptoms subside, the total daily dosage should be reduced to the lowest level required

to control symptoms, or the drug should be discontinued. 4. If Capsules INDOCIN SR are used for initial therapy or during dosage adjustment, observe the patient closely (see DOSAGE AND ADMINISTRATION).

Gastrointestinal Effects:

Single or multiple ulcerations, including perforation and hemorrhage of the esophagus, stomach, duodenum or small and large intestine, have been reported to occur with INDO-CIN. Fatalities have been reported in some instances. Rarely, intestinal ulceration has been associated with steno-

sis and obstruction. Gastrointestinal bleeding without obvious ulcer formation and perforation of pre-existing sigmoid lesions (diverticulum, carcinoma, etc.) have occurred. Increased abdominal pain in ulcerative colitis patients or the development of ulcerative colitis and regional ileitis have been reported to occur rarely

Because of the occurrence, and at times severity, of gastrointestinal reactions to INDOCIN, the prescribing physician must be continuously alert for any sign or symptom signaling a possible gastrointestinal reaction. The risks of continuing therapy with INDOCIN in the face of such symptoms must be weighed against the possible benefits to the individual patient.

INDOCIN should not be given to patients with active gastro intestinal lesions or with a history of recurrent gastrointesti nal lesions except under circumstances which warrant the very high risk and where patients can be monitored very closely.

The gastrointestinal effects may be reduced by giving Cap-sules INDOCIN or Capsules INDOCIN SR immediately after meals, with food, or with antacids. Renal Effects:

As with other non-steroidal anti-inflammatory drugs, long term administration of indomethacin to animals has re-sulted in renal papillary necrosis and other abnormal renal pathology. In humans, there have been reports of acute interstitial nephritis with hematuria, proteinuria, and occasionally nephrotic syndrome.

A second form of renal toxicity has been seen in patients with prerenal and renal conditions leading to a reduction in renal blood flow or blood volume, where the renal prosta-glandins have a supportive role in the maintenance of renal perfusion. In these patients administration of an NSAID may cause a dose dependent reduction in prostaglandin formation and may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with conditions such as renal or hepatic dysfunction, complications associated with advanced age, extracellular volume depletion from any cause, congestive heart failure, sepsis, or concomitant use of any nephrotoxic drug. INDOCIN or other NSAIDs should be given with caution and renal function should be monitored in any patient who may have reduced renal reserve. Discontinuation of NSAID therapy is typically followed by recovery to the pretreatment state.

Increases in serum potassium concentration, including hyperkalemia, have been reported, even in some patients without renal impairment. In patients with normal renal function, these effects have been attributed to a hyporeninemichypoaldosteronism state (see PRECAUTIONS, Drug Interac-

Since INDOCIN is eliminated primarily by the kidneys, patients with significantly impaired renal function should be closely monitored; a lower daily dosage should be anticipated to avoid excessive drug accumulation.

Ocular Effects:

Corneal deposits and retinal disturbances, including those of the macula, have been observed in some patients who had received prolonged therapy with INDOCIN. The prescribing physician should be alert to the possible association between the changes noted and INDOCIN. It is advisable to discontinue therapy if such changes are observed. Blurred vision may be a significant symptom and warrants a thorough ophthalmological examination. Since these changes may be asymptomatic, ophthalmologic examination at periodic intervals is desirable in patients where therapy is prolonged. Central Nervous System Effects:

INDOCIN may aggravate depression or other psychiatric disturbances, epilepsy, and parkinsonism, and should be used with considerable caution in patients with these conditions. If severe CNS adverse reactions develop, INDOCIN should be discontinued.

INDOCIN may cause drowsiness; therefore, patients should be cautioned about engaging in activities requiring mental alertness and motor coordination, such as driving a car. IN-DOCIN may also cause headache. Headache which persists despite dosage reduction requires cessation of therapy with INDOCIN.

Use in Pregnancy and the Neonatal Period INDOCIN is not recommended for use in pregnant women,

since safety for use has not been established, and because of the known effect of drugs of this class on the human fetal cardiovascular system (closure of the ductus arteriosus) during the third trimester of pregnancy. Teratogenic studies were conducted in mice and rats at dos-

ages of 0.5, 1.0, 2.0, and 4.0 mg/kg/day. Except for retarded fetal ossification at 4 mg/kg/day considered secondary to the decreased average fetal weights, no increase in fetal malformations was observed as compared with control groups. Other studies in mice reported in the literature using higher doses (5 to 15 mg/kg/day) have described maternal toxicity and death, increased fetal resorptions, and fetal malformations. Comparable studies in rodents using high doses of aspi-rin have shown similar maternal and fetal effects.

As with other non-steroidal anti-inflammatory agents which inhibit prostaglandin synthesis, indomethacin has been found to delay parturition in rats.

In rats and mice, 4.0 mg/kg/day given during the last three days of gestation caused a decrease in maternal weight gain and some maternal and fetal deaths. An increased incidence of neuronal necrosis in the diencephalon in the live-born fetuses was observed. At 2.0 mg/kg/day, no increase in neuronal necrosis was observed as compared to the control groups. Administration of 0.5 or 4.0 mg/kg/day during the first three days of life did not cause an increase in neuronal necrosis at either dose level.

Use in Nursing Mothers INDOCIN is excreted in the milk of lactating mothers. IN-DOCIN is not recommended for use in nursing mothers.

PRECAUTIONS

INDOCIN may mask the usual signs and symptoms of infection. Therefore, the physician must be continually on the alert for this and should use the drug with extra care in the presence of existing controlled infection.

Fluid retention and peripheral edema have been observed in some patients taking INDOCIN. Therefore, as with other non-steroidal anti-inflammatory drugs, INDOCIN should be used with caution in patients with cardiac dysfunction, hy-pertension, or other conditions predisposing to fluid reten-

In a study of patients with severe heart failure and hypona-tremia, INDOCIN was associated with significant deterioration of circulatory hemodynamics, presumably due to inhibition of prostaglandin dependent compensatory mechanisms.

Continued on next page

Information on the Merck Sharp & Dohme products listed on these pages is the full prescribing information from product circulars in use August 31, 1987

Merck Sharp & Dohme-Cont.

INDOCIN, like other non-steroidal anti-inflammatory agents, can inhibit platelet aggregation. This effect is of shorter duration than that seen with aspirin and usually disappears within 24 hours after discontinuation of INDO-CIN. INDOCIN has been shown to prolong bleeding time (but within the normal range) in normal subjects. Because this effect may be exaggerated in patients with underlying hemostatic defects, INDOCIN should be used with caution in persons with coagulation defects.

As with other non-steroidal anti-inflammatory drugs, borderline elevations of one or more liver tests may occur in up to 15% of patients. These abnormalities may progress, may remain essentially unchanged, or may be transient with continued therapy. The SGPT (ALT) test is probably the most sensitive indicator of liver dysfunction. Meaningful (3 times the upper limit of normal) elevations of SGPT or SGOT (AST) occurred in controlled clinical trials in less than 1% of patients. A patient with symptoms and/or signs suggesting liver dysfunction, or in whom an abnormal liver test has occurred, should be evaluated for evidence of the development of more severe hepatic reactions while on therapy with INDOCIN. Severe hepatic reactions, including jaundice and cases of fatal hepatitis, have been reported with INDOCIN as with other non-steroidal anti-inflammatory drugs. Although such reactions are rare, if abnormal liver tests persist or discase develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), INDOCIN should be discontinued. Carcinogenesis, Mutagenesis, Impairment of Fertility

In an 81-week chronic oral toxicity study in the rat at doses up to 1 mg/kg/day, indomethacin had no tumorigenic effect. Indomethacin produced no neoplastic or hyperplastic changes related to treatment in carcinogènic studies in the rat (dosing period 73-110 weeks) and the mouse (dosing period 62-88 weeks) at doses un to 15 mg/kg/day.

riod 62-88 weeks) at doses up to 1.5 mg/kg/day. Indomethacin did not have any mutagenic effect in *in vitro* bacterial tests (Ames test and *E. coli* with or without metabolic activation) and a series of *in vivo* tests including the host-mediated assay, sex-linked recessive lethals in *Drosophila*, and the micronucleus test in mice. **Product Information**

Indomethacin at dosage levels up to 0.5 mg/kg/day had no effect on fertility in mice in a two generation reproduction study or a two litter reproduction study in rats. *Drug Interactions*

In normal volunteers receiving indomethacin, the administration of diflunisal decreased the renal clearance and significantly increased the plasma levels of indomethacin. In some patients, combined use of INDOCIN and diflunisal has been associated with fatal gastrointestinal hemorrhage. Therefore, diflunisal and INDOCIN should not be used concomitantly.

tantly. In a study in normal volunteers, it was found that chronic concurrent administration of 3.6 g of aspirin per day decreases indomethacin blood levels approximately 20%. Clinical studies have shown that INDOCIN does not influence the hypoprothrombinemia produced by anticoagulants.

Clinical studies have shown that INDOCIN does not influence the hypoprothrombinemia produced by anticoagulants. However, when any additional drug, including INDOCIN, is added to the treatment of patients on anticoagulant therapy, the patients should be observed for alterations of the prothrombin time.

When INDOCIN is given to patients receiving probenecid, the plasma levels of indomethacin are likely to be increased. Therefore, a lower total daily dosage of INDOCIN may produce a satisfactory therapeutic effect. When increases in the dose of INDOCIN are made, they should be made carefully and in small increments.

The billing of the second seco

In some patients, the administration of INDOCIN can reduce the diuretic, natriuretic, and, antihypertensive effects of loop, potassium-sparing, and thiazide diuretics. Therefore, when INDOCIN and diuretics are used concomitantly, the patient should be observed closely to determine if the desired effect of the diuretic is obtained.

Incidence greater than 1% Incidence less than 1%

GASTROINTESTINAL nausea* with or anorexia bloating (includes without vomiting dyspepsia* (including distention) flatulence peptic ulcer indigestion, hearthurn and gastroenteritis epigastric pain) rectal bleeding proctitis diarrhea abdominal distress single or multiple ulcerations, including perforation and or pain constipation hemorrhage of the esophagus, stomach, duodenum or small and large intestines intestinal ulceration associated with stenosis and obstruction CENTRAL NERVOUS SYSTEM headache (11.7%) anxiety (includes dizziness* nervousness) vertigo muscle weakness somnolence involuntary muscle depression and movements fatigue (including insomnia malaise and muzziness coma psychic disturlistlessness) bances including psychotic episodes mental confusion drowsiness SPECIAL SENSES tinnitus ocular-corneal deposits and retinal disturbances, including deafness those of the

macula, have been reported in some patients on prolonged therapy with INDOCIN gastrointestinal bleeding without obvious ulcer formation and perforation of preexisting sigmoid lesions (diverticulum, carcinoma, etc.) development of ulcerative colitis and regional ileitis ulcerative stomatitis toxic hepatitis and jaundice (some fatal cases have been reported)

light-headedness syncope paresthesia aggravation of epilepsy and parkinsonism depersonalization coma peripheral neuropathy convulsions

blurred vision diplopia hearing disturbances, deafness

[Continued following page]

INDOCIN reduces basal plasma renin activity (PRA) as as those elevations of PRA induced by furosemide as tration, or salt or volume depletion. These facts shall considered when evaluating plasma renin activity in to tensive patients.

Always consult Supple

It has been reported that the addition of triamteres as maintenance schedule of INDOCIN resulted in rewards acute renal failure in two of four healthy volunteers into CIN and triamterene should not be administered toxets INDOCIN and potassium-sparing diuretics each may be ciated with increased serum potassium levels. The poteeffects of INDOCIN and potassium-sparing diuretics as a tassium kinetics and renal function should be considered when these agents are administered concurrently. Most of the above effects concerning diuretics have be attributed, at least in part, to mechanisms involving mistion of prostaglandin synthesis by INDOCIN. Blunting of the anthypertensive effect of beta-adrence blocking agents by non-steroidal anti-inflammatory including INDOCIN has been reported. Therefore, we using these blocking agents to treat hypertension, path should be observed carefully in order to confirm that desired therapeutic effect has been obtained. These are ports that INDOCIN can reduce the antihypertensive of captopril in some patients.

Effectiveness in children 14 years of age and younger has a been established (see WARNINGS).

ADVERSE REACTIONS

The adverse reactions for Capsules INDOCIN listed in a following table have been arranged into two groups [1] is dence greater than 1%; and (2) incidence less than 1%. In incidence for group (1) was obtained from 33 double controlled clinical trials reported in the literature [1] patients). The incidence for group (2) was based on report clinical trials, in the literature, and on voluntary resistince marketing. The probability of a causal relations exists between INDOCIN and these adverse reactions wo of which have been reported only rarely.

of which have been reported only rarely. In controlled clinical trials, the incidence of adverse retions to Capsules INDOCIN SR and equal 24-hour does Capsules INDOCIN were similar.

Capsules INDOCIN were similar. The adverse reactions reported with Capsules INDOC may occur with use of the suppositories. In addition we irritation and tenesmus have been reported in patient of have received the suppositories.

have received the suppositories. The adverse reactions reported with Capsules INDOOR may also occur with use of the suspension. [See table left].

Causal relationship unknown: Other reactions have be reported but occurred under circumstances where a corelationship could not be established. However, it is rarely reported events, the possibility cannot be estab-Therefore, these observations are being listed to serve a alerting information to physicians:

Hematologic: Although there have been several reports leukemia, the supporting information is weak. Genitourinary: Urinary frequency.

OVERDOSAGE

The following symptoms may be observed following or age: nausea, vomiting, intense headache, dizines, mi confusion, disorientation, or lethargy. There have be ports of paresthesias, numbness, and convulsions. Treatment is symptomatic and supportive. The sashould be emptied as quickly as possible if the inare recent. If vomiting has not occurred spontaneously, the tient should be induced to vomit with syrup of jeec. If patient is unable to vomit, gastric lavage should be formed. Once the stomach has been emptied, 26 or activated charcoal may be given. Depending on the of the patient, close medical observation and numit may be required. The patient should be followed for adays because gastrointestinal ulceration and hemory have been reported as adverse reactions of induced

The oral LD_{50} of indomethacin in mice and rats (based day mortality response) was 50 and 12 mg/kg, respectively

DOSAGE AND ADMINISTRATION

INDOCIN is available as 25 and 50 mg Capsules INDO 75 mg Capsules INDOCIN SR for oral use, Oral Suspe-INDOCIN, containing 25 mg of indomethacin per 5 mi 50 mg Suppositories INDOCIN for rectal use. Capsule DOCIN SR 75 mg once a day can be substituted for Caps INDOCIN 25 mg t.i.d. However, there will be similar ferences between the two dosage regimens in indomenblood levels, especially after 12 hours (see CLINCLA PRI MACOLOGY). In addition, Capsules INDOCIN ST b.i.d. can be substituted for Capsules INDOCIN ST and the substituted for Capsules INDOCIN ST b.i.d. can be substituted for Capsules INDOCIN 50 mg

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hypertension hypotension tachycardia chest pain edema weight gain fluid retention flushing or sweating

> pruritus rash; urticaria petechiae or ecchymosis

leukopenia bone marrow depression anemia secondary to obvious or occult

gastrointestinal bleeding acute anaphylaxis

acute respiratory distress rapid fall in blood pressure resembling a shock-like state angioedema

hematuria vaginal bleeding proteinuria nephrotic syndrome interstitial nephritis

enistaxis breast changes, including enlargement and tenderness, or gynecomastia

ms occurring in 3% to 9% of patients treated with INDOCIN. (Those reactions occurring in less than 3% of the pa are unmarked.)

Product Information

congestive heart failure arrhythmia: palpitations

hyperglycemia glycosuria hyperkalemia

exfoliative dermatitis erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolvsis

aplastic anemia hemolytic anemia agranulocytosis thrombocytopenic purpura

dyspnea asthma purpura angiitis pulmonary edema

BUN elevation renal insufficiency. including renal failure

NDC 0006-0025-28 unit dose packages of 100 (6505-00-118-2776, 25 mg individually sealed 100's) NDC 0006-0025-82 bottles of 1000

NDC 0006-002-02 bottles of 1000 (\$5050-00-931-0680, 25 mg 1000's). Shown in Product Identification Section, page 418 No. 3317—Capsules INDOCIN, 50 mg are opaque blue and white capsules, coded MSD 50. They are supplied as follows: NDC 0006-0050-68 bottles of 100

NDC 0006-0050-28 unit dose packages of 100. Shown in Product Identification Section, page 418 No. 3376—Oral Suspension INDOCIN, 25 mg per 5 mL, is an off-white suspension with a pineapple coconut mint flavor. It is supplied as follows:

NDC 0006-3376-66 in bottles of 237 mL. Storage

Store below 30°C (86°F). Avoid temperatures above 50°C (122°F). Protect from freezing. No. 3370—Capsules INDOCIN SR, 75 mg each, are capsules

with an opaque blue cap and clear body containing a mixture of blue and white pellets, coded MSD 693. They are supplied as follows:

NDC 0006-0693-31 unit of use bottles of 30

(6505-01-135-7391, 75 mg 30's)

NDC 0006-0693-61 unit of use bottles of 60 (6505-01-137-4629, 75 mg 60's).

Shown in Product Identification Section, page 418 No. 3354—Suppositories INDOCIN, 50 mg each, are white, opaque, rectal suppositories and are supplied as follows: NDC 0006-0150-30, boxes of 30. Shown in Product Identification Section, page 418

Suppositories INDOCIN are distributed by: MERCK SHARP & DOHME, Division of Merck & Co., Inc. West Point, Pa. 19486 Manufesture d Manufactured by MERCK SHARP & DOHME (Italia) Sp.A. 27100—Pavia, Italy Capsules and Oral Suspension INDOCIN® and INDOCIN® SR are distributed and manufactured by: MERCK SHARP & DOHME, Division of Merck & Co., INC. West Point, Pa. 19486 A.H.F.S. Category: 28:08 DC 7342912 Issued January 1987 COPYRIGHT © MERCK & CO., INC., 1985

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INDOCIN® I.V. (Indomethacin Sodium Tribydrate, MSD)

DESCRIPTION

Sterile INDOCIN® I.V. (Indomethacin Sodium Trihydrate, MSD) for intravenous administration is lyophilized indomethacin sodium trihydrate. Each vial contains indomethacin sodium trihydrate equivalent to 1 mg indomethacin as a white to yellow lyophilized powder or plug. Variations in the size of the lyophilized plug and the intensity of color have no relationship to the quality or amount of indomethacin present in the vial.

Indomethacin sodium trihydrate is designated chemically as 1-(4-chlorobenzoyl) -5- methoxy-2-methyl-1H -indole-3-acetic acid, sodium salt, trihydrate. Its molecular weight is 433.8. Its empirical formula is C₁₉H₁₅ClNNaO₄ · 3H₂O and its structural formula is:

·3H20 CH₂O CH-COONe

CLINICAL PHARMACOLOGY

Although the exact mechanism of action through which indomethacin causes closure of a patent ductus arteriosus is not known, it is believed to be through inhibition of prosta-glandin synthesis. Indomethacin has been shown to be a potent inhibitor of prostaglandin synthesis, both in vitro and in vivo. In human newborns with certain congenital heart malformations, PGE 1 dilates the ductus arteriosus. In fetal and newborn lambs, E type prostaglandins have also been shown to maintain the patency of the ductus, and as in human newborns, indomethacin causes its constriction

Continued on next page

Information on the Merck Sharp & Dohme products listed on these pages is the full prescribing information from product circulars in use August 31, 1987.

upportive. The severe rheumatoid arthritis including acute as helping and the severe rheumatoid arthritis including acute as helping of chronic disease; moderate to severe ankylosing th syrup of plylitis; and moderate to severe osteoarthritis c lavage sho sted Dosara: sted Dosag n emptied, 2 les INDOCIN 25 mg b.i.d. or t.i.d. If this is well tolerpending on the ncrease the daily dosage by 25 or by 50 mg, if re-

INDOCIN SR may be substituted for all the indica-

Capsules INDOCIN except acute gouty arthritis. reactions appear to correlate with the size of the

NDOCIN in most patients but not all. Therefore,

rt should be made to determine the smallest effec-

ension INDOCIN with food, immediately after

commendations for Active Stages of the Follow-

ge for the individual patient. give Capsules INDOCIN, Capsules INDOCIN SR, or

with antacids to reduce gastric irritation.

served follow. Nordinarily should not be prescribed for children 14 dache, dizzizi age and under (see WARNINGS).

12 mg/kg, r

vation and p dy continuing symptoms, at weekly intervals until d be followed statuty response is obtained or until a total daily ration and statuty response is obtained or until a total daily uctions of in UNT GENERALLY DO NOT INCREASE THE EF-ice and rats. UNESS OF THE DRUG.

ON

Its who have persistent night pain and/or morning the giving of a large portion, up to a maximum of of the total daily dose at bedtime, either orally or by

ON of the total daily dose at bedtime, either orally or by upositories, may be helpful in affording relief. The mg Capsuls it dose should not exceed 200 mg. In acute flares of ral use, Oral we have a strong of the total daily dose at bottom of the daily dose at the daily dose, patients should be observed for as INDOCIN⁴ signs and symptoms of intolerance since the daily dose.

increment will exceed the daily increment recommended for the other dosage forms. For patients who require 150 mg of INDOCIN per day and have demonstrated acceptable tolerance, iNDOCIN SR may be prescribed as one capsule twice daily.

If minor adverse effects develop as the dosage is increa reduce the dosage rapidly to a tolerated dose and OBSERVE THE PATIENT CLOSELY.

If severe adverse reactions occur, STOP THE DRUG. After the acute phase of the disease is under control, an attempt to reduce the daily dose should be made repeatedly until the patient is receiving the smallest effective dose or the drug is discontinued.

Careful instructions to, and observations of, the individual caretu instructions to, and observations of, the individual patient are essential to the prevention of serious, irreversi-ble, including fatal, adverse reactions. As advancing years appear to increase the possibility of ad-verse reactions, INDOCIN should be used with greater care

in the aged.

Acute painful shoulder (bursitis and/or tendinitis).

Initial Dose: 75–150 mg daily in 3 or 4 divided doses

The drug should be discontinued after the signs and symp-toms of inflammation have been controlled for several

days. The usual course of therapy is 7-14 days. 3. Acute gouty arthritis. Suggested Dosage

Capsules INDOCIN 50 mg t.i.d. until pain is tolerable. The dose should then be rapidly reduced to complete cessation of the drug. Definite relief of pain has been reported within 2 to 4 hours. Tenderness and heat usually subside in 24 to 36 hours, and swelling gradually disappears in 3 to 5 days.

HOW SUPPLIED

No. 3316-Capsules INDOCIN, 25 mg are opaque blue and white capsules, coded MSD 25. They are supplied as follows: NDC 0006-0025-68 bottles of 100 (6505-00-926-2154, 25 mg 100's)

NDC 0006-0025-78 unit of use bottles of 100

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creted in human milk. Because the potential for hypoglycemia in nursing infants may exist, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother. If the drug is discontinued, and if diet alone is inadequate for controlling blood glucose, insulin therapy should be considered.

Pediatric Use

Safety and effectiveness in children have not been established.

ADVERSE REACTIONS

Hypoglycemia: See Precautions and Overdosage Sections. Gastrointestinal Reactions: Cholestatic jaundice may occur rarely; MICRONASE Tablets (glyburide) should be discontinued if this occurs.

Liver function abnormalities, including isolated transaminase elevations, have been reported.

Gastrointestinal disturbances, e.g., nausea, epigastic fullness, and heartburn are the most common reactions, having occurred in 1.8% of treated patients during clinical trials. They tend to be dose related and may disappear when dosage is reduced.

Dermatologic Reactions: Allergic skin reactions, e.g., pruri-Dermatologic neactions: Allergic skin reactions, e.g., pruf-tus, erythema, urticaria, and morbilliform or maculopapular eruptions occurred in 1.5% of treated patients during clini-cal trials. These may be transient and may disappear despite continued use of MICRONASE; if skin reactions persist, the drug should be discontinued.

Porphyria cutanea tarda and photosensitivity reactions have been reported with sulfonylureas. Hematologic Reactions: Leukopenia,

agranulocytosis thrombocytopenia, hemolytic anemia, aplastic anemia, and pancytopenia have been reported with sulfonylureas.

Metabolic Reactions: Hepatic porphyria and disulfiram-like reactions have been reported with sulfonylureas; however, hepatic porphyria has not been reported with MICRONASE and disulfiram-like reactions have been reported very rarely.

Cases of hyponatremia have been reported with glyburide and all other sulfonylureas, most often in patients who are on other medications or have medical conditions known to cause hyponatremia or increase release of antidiuretic hor-The syndrome of inappropriate antidiuretic hormone (SIADH) secretion has been reported with certain other sul-fonylureas, and it has been suggested that these sulfonylureas may augment the peripheral (antidiuretic) action of ADH and/or increase release of ADH.

OVERDOSAGE

Overdosage of sulfonylureas, including MICRONASE Tab-lets (glyburide), can produce hypoglycemia. Mild hypoglyce-mic symptoms, without loss of consciousness or neurological findings, should be treated aggressively with oral glucose and adjustments in drug dosage and/or meal patterns. Close and adjustments in drug dosage and/or meal patterns. monitoring should continue until the physician is assured that the patient is out of danger. Severe hypoglycemic reactions with coma, seizure, or other neurological impairment occur infrequently, but constitute medical emergencies requiring immediate hospitalization. If hypoglycemic coma is diagnosed or suspected, the patient should be given a rapid intravenous injection of concentrated (50%) glucose solution. This should be followed by a continuous infusion of a more dilute (10%) glucose solution at a rate which will maintain the blood glucose at a level above 100 mg/dL. Patients should be closely monitored for a minimum of 24 to 48 hours. since hypoglycemia may recur after apparent clinical recovery

DOSAGE AND ADMINISTRATION

There is no fixed dosage regimen for the management of dia-betes mellitus with MICRONASE Tablets (glyburide) or any other hypoglycemic agent. In addition to the usual monitoring of urinary glucose, the patient's blood glucose must also be monitored periodically to determine the minimum effective dose for the patient; to detect primary failure, i.e., inade quate lowering of blood glucose at the maximum recom-mended dose of medication; and to detect secondary failure, *i.e.*, loss of adequate blood glucose lowering response after an initial period of effectiveness. Glycosylated hemoglobin levels may also be of value in monitoring the patient's response to therapy. Short-term administration of MICRONASE may be suffi-

cient during periods of transient loss of control in patients usually controlled well on diet.

Usual Starting Dose The usual starting dose of MICRONASE Tablets is 2.5 to 5.0 mg daily, administered with breakfast or the first main meal. Those patients who may be more sensitive to hypoglycemic drugs should be started at 1.25 mg daily. (See Precautions Sections for patients at increased risk.) Failure to fol-low an appropriate dosage regimen may precipitate hypoglycemia. Patients who do not adhere to their prescribed dietary

Product Information

and drug regimen are more prone to exhibit unsatisfactory response to therapy

Transfer From Other Hypoglycemic Therapy Patients Receiving Other Oral Antidiabetic Therapy: Trans-

fer of patients from other oral antidiabetic regimens to MICRONASE should be done conservatively and the initial daily dose should be 2.5 to 5 mg. When transferring patients from oral hypoglycemic agents other than chlorpropamide to MICRONASE, no transition period and no initial or priming dose are necessary. When transferring patients from chlorpropamide, particular care should be exercised during the first two weeks because the prolonged retention of chlorpropamide in the body and subsequent overlapping drug effects

Patients Receiving Insulin: Some type II diabetic patients being treated with insulin may respond satisfactorily to MICRONASE. If the insulin dose is less than 20 units daily, substitution of MICRONASE Tablets 2.5 to 5.0 mg as a single daily dose may be tried. If the insulin dose is between 20 and 40 units daily, the patient may be placed directly on MICRONASE Tablets 5.0 mg daily as a single dose. If the insulin dose is more than 40 units daily, a transition period is required for conversion to MICRONASE. In these patients, insulin dosage is decreased by 50% and MICRONASE Tablets 5 mg daily is started. Please refer to Titration to Maintenance Dose for further explanation.

Titration to Maintenance Dose

The usual maintenance dose is in the range of 1.25 to 20 mg daily, which may be given as a single dose or in divided doses (See Dosage Interval Section). Dosage increases should be made in increments of no more than 2.5 mg at weekly intervals based upon the patient's blood glucose response.

dosage relationship exists between MICRONASE and the other oral hypoglycemic agents. Although patients may be transferred from the maximum dose of other sulfonylureas, the maximum starting dose of 5.0 mg of MICRONASE Tablets should be observed. A maintenance dose of 5 mg of MICRONASE Tablets provides approximately the same degree of blood glucose control as 250 to 375 mg chlorpropamide, 250 to 375 mg tolazamide, 500 to 750 mg acetohexamide, or 1000 to 1500 mg tolbutamide.

When transferring patients receiving more than 40 units of insulin daily, they may be started on a daily dose of MICRONASE Tablets 5 mg concomitantly with a 50% reduction in insulin dose. Progressive withdrawal of insulin and increase of MICRONASE in increments of 1.25 to 2.5 mg every 2 to 10 days is then carried out. During this conversion period when both insulin and MICRONASE are being used, hypoglycemia may rarely occur. During insulin withdrawal, patients should test their urine for glucose and acetone at least three times daily and report results to their physician. The appearance of persistent acetonuria with glycosuria indicates that the patient is a type I diabetic who requires insulin therapy.

Maximum Dose

Daily doses of more than 20 mg are not recommended. **Dosage Interval**

Once-a-day therapy is usually satisfactory. Some patients, particularly those receiving more than 10 mg daily, may have a more satisfactory response with twice-a-day dosage. Specific Patient Populations

MICRONASE is not recommended for use in pregnancy or for use in children.

In elderly patients, debilitated or malnourished patients, and patients with impaired renal or hepatic function, the initial and maintenance dosing should be conservative to avoid hypoglycemic reactions. (See Precautions Section.) HOW SUPPLIED

MICRONASE Tablets (glyburide), scored, round, are available in the following str

1.25 mg	White	Bottles of 100	NDC 0009-0131-01
2.5 mg	Dark Pink	Bottles of 30	NDC 0009-0141-06
2.5 mg	Dark Pink	Bottles of 60	NDC 0009-0141-07
2.5 mg	Dark Pink	Bottles of 100	NDC 0009-0141-01
2.5 mg	Dark Pink	Unit Dose	NDC 0009-0141-02
		Pkg,. of 100	
5 mg	Blue	Bottles of 30	NDC 0009-0171-08
5 mg	Blue	Bottles of 60	NDC 0009-0171-09
mg	Blue	Bottles of 90	NDC 0009-0171-10
5.0 mg	Blue	Bottles of 100	NDC 0009-0171-01
5.0 mg	Blue	Bottles of 500	NDC 0009-0171-02
5.0 mg	Blue	Unit Dose	NDC 0009-0171-03
niseratio		Pkg. of 100	
ömg	Blue	Bottles of 1000	NDC 0009-0171-04
and a second second	T 1 1'1	1 11 11 11	

Caution: Federal law prohibits dispensing without pre-scription. Store at controlled room temperature 15°-30° C (59°-86° F). Dispensed in well closed containers with safety closures. Keep container tightly closed. Code 811 985 211

Shown in Product Identification Section, page 433

MOTRIN®	ante of eleveladed kald values i	R
brand of ibuprofen tab	lets, USP 000 management	- ,
800 mg, 100's	NSN 6505-01-214-9061 (V	
800 mg, 500's	NSN 6505-01-214-9062 (M & V	Δ

Always consult Supplement

DESCRIPTION

MOTRIN Tablets contain the active ingredient ibuprofen. which is (\pm) -2-(p-isobutylphenyl) propionic acid. Ibuprofen is a white powder with a melting point of 74–77°C and is very slightly soluble in water (<1 mg/ml) and readily soluble in organic solvents such as ethanol and acetone. The structural formula is represented below:



MOTRIN, a nonsteroidal anti-inflammatory agent, is avail-able in 300 mg, 400 mg, 600 mg, and 800 mg tablets for oral administration.

Inactive ingredients: 300 mg-acacia, acetylated monoglyceride, calcium sulfate, carboxymethylcellulose sodium, carnauba wax, colloidal silicon dioxide, corn starch, povi-done, pregelatinized starch, sesame oil, shellac, stearic acid, sucrose, white wax; 400 mg-acacia, acetylated monoglyceride, calcium sulfate, carboxymethylcellulose sodium, carnauba wax, colloidal silicon dioxide, corn starch, FD&C yel-low no. 6, pregelatinized starch, povidone, sesame oil, shellow no. 6, pregnatilized starch, povidone, sesame oi, snei-lac, sodium benzoate, stearic acid, sucrose, titanium dioxide, white wax; 600 mg—carnauba wax, colloidal silicon dioxide, corn starch, FD&C yellow no. 6, hydroxypropyl cellulose, hydroxypropyl methylcellulose, progelatinized starch, prop-ylene glycol, stearic acid, titanium dioxide; 800 mg—car-pubb ury: celluide dilione dioxide, assessed and the star of the star nauba wax, colloidal silicon dioxide, croscarmellose sodium, FD&C yellow no. 6, hydroxypropyl methylcellulose, magne sium stearate, microcrystalline cellulose, propylene glycol, talc, titanium dioxide.

CLINICAL PHARMACOLOGY

MOTRIN Tablets contain ibuprofen which possesses analge-sic and antipyretic activities. Its mode of action, like that of other nonsteroidal anti-inflammatory agents, is not completely understood, but may be related to prostaglandin synthetase inhibition.

In clinical studies in patients with rheumatoid arthritis and osteoarthritis, MOTRIN has been shown to be comparable to aspirin in controlling pain and inflammation and to be associated with a statistically significant reduction in the milder gastrointestinal side effects (see ADVERSE REACTIONS). MOTRIN may be well tolerated in some patients who have had gastrointestinal side effects with aspirin, but these pa-tients when treated with MOTRIN should be carefully fol-lowed for signs and symptoms of gastrointestinal ulceration and bleeding. Although it is not definitely known whether MOTRIN causes less peptic ulceration than aspirin, in one study involving 885 patients with rheumatoid arthritis treated for up to one year, there were no reports of gastric ulceration with MOTRIN whereas frank ulceration was reported in 13 patients in the aspirin group (statistically significant p < .001).

Gastroscopic studies at varying doses show an increased tendency toward gastric irritation at higher doses. However, at comparable doses, gastric irritation is approximately half that seen with aspirin. Studies using ⁵¹Cr-tagged red cells indicate that fecal blood loss associated with MOTRIN Tab lets in doses up to 2400 mg daily did not exceed the normal range, and was significantly less than that seen in aspirintreated patients.

In clinical studies in patients with rheumatoid arthritis, MOTRIN has been shown to be comparable to indomethacin in controlling the signs and symptoms of disease activity and to be associated with a statistically significant reduction of the milder gastrointestinal (see ADVERSE REACTIONS) and CNS side effects.

MOTRIN may be used in combination with gold salts and/or corticosteroids.

Controlled studies have demonstrated that MOTRIN is a more effective analgesic than propayphene for the relief of episiotomy pain, pain following dental extraction proce-dures, and for the relief of the symptoms of primary dysmen-orrhes orrhea.

In patients with primary dysmenorrhea, MOTRIN has been shown to reduce elevated levels of prostaglandin activity in the menstrual fluid and to reduce resting and active intrauterine pressure, as well as the frequency of uterine contrac-tions. The probable mechanism of action is to inhibit prostations: I ne probable mechanism of action is to illumite pre-iglandin synthesis rather than simply to provide analgesia. The ibuprofen in MOTRIN is rapidly absorbed when admin-istered orally. Peak serum ibuprofen levels are generally attained one to two hours after administration. With single doses up to 800 mg, a linear relationship exists between meant of them a during the integrated area under amount of drug administered and the integrated area under

for possible revisions

he serum drug concentration vs time curve. Above 800 mg, however, the area under the curve increases less than proportional to increases in dose. There is no evidence of drug scumulation or enzyme induction. The administration of MOTRIN Tablets either under fasting

The administration of MOTRIN Tablets either under fasting onditions or immediately before meals yields quite similar erum ibuprofen concentration-time profiles. When MOTRIN is administered immediately after a meal, there is reduction in the rate of absorption but no appreciable derease in the extent of absorption. The bioavailability of the area is minimally altered by the presence of food.

hoavailability study has shown that there was no interference with the absorption of ibuprofen when MOTRIN was even in conjunction with an antacid containing both aluminum hydroxide and magnesium hydroxide.

puprofen is rapidly metabolized and eliminated in the prine. The excretion of ibuprofen is virtually complete 24 nours after the last dose. The serum half-life is 1.8 to 2.0 wurs.

indies have shown that following ingestion of the drug, 5% to 79% of the dose was recovered in the urine within 24 ours as metabolite A (25%), (+) - 2. [p-(Aydroxymethylmopyl)- phenyl] propionic acid and metabolite B (37%), (+)-1/p/(2carboxypropyl)-phenyl] propionic acid; the percentges of free and conjugated ibuprofen were approximately% and 14%, respectively.

NDICATIONS AND USAGE

IOTRIN Tablets (ibuprofen) are indicated for relief of the gns and symptoms of rheumatoid arthritis and ostewarthri-

IOTRIN is indicated for relief of mild to moderate pain. IOTRIN is also indicated for the treatment of primary dysnenorrhea.

ince there have been no controlled clinical trials to demontrate whether or not there is any beneficial effect or harmal interaction with the use of MOTRIN in conjunction with spirin, the combination cannot be recommended (see **Drug** steractions).

ontrolled clinical trials to establish the safety and effectiveess of MOTRIN in children have not been conducted.

ONTRAINDICATIONS

(OTRIN Tablets (ibuprofen) should not be used in patients ho have previously exhibited hypersensitivity to the drug, r in individuals with the syndrome of nasal polyps, angioeema and bronchospastic reactivity to aspirin or other noneroidal anti-inflammatory agents. Anaphylactoid reacons have occurred in such patients.

ARNINGS

eptic ulceration and gastrointestinal bleeding, sometimes were, have been reported in patients receiving MOTRIN ablets (ibuprofen). Peptic ulceration, perforation, or severe strointestinal bleeding can have a fatal outcome, and alough a few such reports have been received with MOTRIN, cause and effect relationship has not been established. (OTRIN should be given under close supervision to patients ith a history of upper gastrointestinal tract disease, and ily after consulting the ADVERSE REACTIONS section. patients with active peptic ulcer and active rheumatoid thritis, attempts should be made to treat the arthritis with nulcerogenic drugs, such as gold. If MOTRIN must be ven, the patient should be under close supervision for signs ulcer perforation or gastrointestinal bleeding.

RECAUTIONS

urred and/or diminished vision, scotomata, and/or anges in color vision have been reported. If a patient devels such complaints while receiving MOTRIN Tablets (ibuofen), the drug should be discontinued and the patient ould have an ophthalmologic examination which includes ntral visual fields and color vision testing. uid retention and edema have been reported in association

uid retention and edema have been reported in association th MOTRIN; therefore, the drug should be used with caum in patients with a history of cardiac decompensation or pertension. OTRIN, like other nonsteroidal anti-inflammatory agents.

OTRIN, like other nonsteroidal anti-inflammatory agents, n inhibit platelet aggregation but the effect is quantitarely less and of shorter duration than that seen with aspi-. MOTRIN has been shown to prolong bleeding time (but thin the normal range) in normal subjects. Because this olonged bleeding effect may be exaggerated in patients th underlying hemostatic defects, MOTRIN should be used th caution in persons with intrinsic coagulation defects a those on anticoagulant therapy.

itents on MOTRIN should report to their physicians signs symptoms of gastrointestinal ulceration or bleeding, irred vision or other eye symptoms, skin rash, weight gain, edema.

order to avoid exacerbation of disease or adrenal insuffincy, patients who have been on prolonged corticosteroid erapy should have their therapy tapered slowly rather an discontinued abruptly when MOTRIN is added to the atment program.

e antipyretic and anti-inflammatory activity of ibuprofen ay reduce fever and inflammation, thus diminishing their

Product Information

utility as diagnostic signs in detecting complications of presumed noninfectious noninflammatory painful conditions. As with other nonsteroidal anti-inflammatory drugs, borderline elevations of one or more liver tests may occur in up to 15% of patients. These abnormalities may progress, may remain essentially unchanged, or may be transient with continued therapy. The SGPT (ALT) test is probably the most sensitive indicator of liver dysfunction. Meaningful (3 times the upper limit of normal) levitations of SGPT or SGOT (AST) occurred in controlled clinical trials in less than 1% of patients. A patient with symptoms and/or signs suggesting liver dysfunction, or in whom an abnormal liver test has occurred, should be evaluated for evidence of the development of more severe hepatic reactions, including jaundice and cases of fatal hepatitis, have been reported with ibuprofen as with other nonsteroidal anti-inflammatory drugs. Although such reactions are rare, if abnormal liver tests persist or worsen, if clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (eg, eosinophilia, rash, etc.), MOTRIN should be discontinued.

In cross-study comparisons with doses ranging from 1200 mg to 3200 mg daily for several weeks, a slight dose-response decrease in hemoglobin/hematocrit was noted. This has been observed with other nonsteroidal anti-inflammatory drugs; the mechanism is unknown. With daily doses of 3200 mg, the total decrease in hemoglobin may exceed 1 gram; if there are no signs of bleeding, it is probably not clinically important. In two postmarketing clinical studies the incidence of a decreased hemoglobin level was greater than previously reported. Decrease in hemoglobin of 1 gram or more was observed in 17.1% of 133 patients on 1600 mg ibuprofen daily (osteoarthritis), and in 22.8% of 189 patients taking 2400 mg of ibuprofen daily (rheumatoid arthritis). Positive stool occult blood tests and elevated serum creatinine levels were also observed in these studies.

also observed in these studies. Aseptic Meningitis: Aseptic meningitis with fever and coma has been observed on rare occasions in patients on iduprofen therapy. Although it is probably more likely to occur in patients with systemic lupus erythematosus and related connective tissue diseases, it has been rèported in patients who do not have an underlying chronic disease. If signs or symptoms of meningitis develop in a patient on MOTRIN, the possibility of its being related to MOTRIN should be considered.

Renal Effects: As with other nonsteroidal anti-inflammatory drugs, long term administration of ibuprofen to animals has resulted in renal papillary necrosis and other abnormal renal pathology. In humans, there have been reports of acute interstitial nephritis with hematuria, proteinuria, and occasionally nephrotic syndrome.

A second form of renal toxicity has been seen in patients with prerenal conditions leading to a reduction in renal slood flow or blood volume, where the renal prostaglandins have a supportive role in the maintenance of renal perfusion. In these patients administration of a nonsteroidal antiinflammatory drug may cause a dose dependent reduction in prostaglandin formation and may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with impaired renal function, heart failure, liver dysfunction, those taking diuretics and the elderly. Discontinuation of nonsteroidal anti-inflammatory drug therapy is typically followed by recovery to the pretreatment state. Those patients at high risk who chronically take MOTRIN should have renal function monitored if they have signs or symptoms which may be consistent with mild azotemia, such as malaise, fatigue, loss of appetite, etc. Occasional patients may develop some elevation of serum creatinine and BUN levels without signs or symptoms.

Since ibuprofen is eliminated primarily by the kidneys, patients with significantly impaired renal function should be closely monitored, and a reduction in dosage should be anticipated to avoid drug accumulation. Prospective studies on the safety of ibuprofen in patients with chronic renal failure have not been conducted.

Drug Interactions: Coumarin-type anticoagulants. Several short-term controlled studies failed to show that MOTRIN significantly affected prothrombin times or a variety of other clotting factors when administered to individuals on coumarin-type anticoagulants. However, because bleeding has been reported when MOTRIN and other nonsteroidal anti-inflammatory agents have been administered to patients on coumarin-type anticoagulants, the physician should be cautious when administering MOTRIN to patients on anticoagulants.

Aspirin: Animal studies show that aspirin given with nonsteroidal anti-inflammatory agents, including MOTRIN, yields a net decrease in anti-inflammatory activity with lowered blood levels of the non-aspirin drug. Single dose bioavailability studies in normal volunteers have failed to show an effect of aspirin on ibuprofen blood levels. Correlative clinical studies have not been done.

Methotrexate: Ibuprofen, as well as other nonsteroidal antiinflammatory drugs, probably reduces the tubular secretion of methotrexate based on *in-vitro* studies in rabbit kidney slices. This may indicate that ibuprofen could enhance the toxicity of methotrexate. Caution should be used if MOTRIN is administered concomitantly with methotrexate.

H-2 Antagonists: In studies with human volunteers, coadministration of cimetidine or ranitidine with ibuprofen had no substantive effect on ibuprofen serum concentrations.

Furosemide: Clinical studies, as well as random observations, have shown that ibuprofen can reduce the natriuretic effect of furosemide and thiazides in some patients. This sponse has been attributed to inhibition of renal prostation din synthesis. During concomitant therapy with ibuprofen, the patient should be observed closely for signs of the failure (See **PRECAUTIONS**, **Renal Effects**) as the as to assure diuretic efficacy.

Lithium: Ibuprofen produced an elevation of plasma lithium levels and a reduction in renal lithium clearance in a study of eleven normal volunteers. The mean minimum lithium concentration increased 15% and the renal clearance of lithium was decreased by 19% during this period of concomitant drug administration. This effect has been attributed to inhibition of renal prostaglandin synthesis by ibuprofen. Thus, when ibuprofen and lithium are administered concurrently, subjects should be observed carefully for signs of lithium toxicity. (Read circulars for lithium preparation before use of such concurrent therapy.) Pregnancy: Reproductive studies conducted in rats and

Pregnancy: Reproductive studies conducted in rats and rabbits at doses somewhat less than the maximal clinical dose did not demonstrate evidence of developmental abnormalities. However, animal reproduction studies are not always predictive of human response. As there are no adequate and well-controlled studies in pregnant women, this drug should be used during pregnancy only if clearly needed. Because of the known effects of nonsteroidal anti-inflammatory drugs on the fetal cardiovascular system (closure of ductus arteriosus), use during late pregnancy should be avoided. As with other drugs known to inhibit prostaglandin synthesia, an increased incidence of dystocia and delayed parturition occurred in rats. Administration of MOTRIN is not recommended during pregnancy. Nursing Mothers: In limited studies, an assay capable of

Nursing Mothers: In limited studies, an assay capable of detecting 1 mcg/ml did not demonstrate ibuprofen in the milk of lactating mothers. However, because of the limited nature of the studies, and the possible adverse effects of prostaglandin-inhibiting drugs on neonates, MOTRIN is not recommended for use in nursing mothers.

ADVERSE REACTIONS

The most frequent type of adverse reaction occurring with MOTRIN Tablets (ibuprofen) is gastrointestinal. In controlled clinical trials the percentage of patients reporting one or more gastrointestinal complaints ranged from 4% to 16%.

In controlled studies when MOTRIN was compared to aspirin and indomethacin in equally effective doses, the overall incidence of gastrointestinal complaints was about half that seen in either the aspirin- or indomethacin-treated patients. Adverse reactions observed during controlled clinical trials at an incidence greater than 1% are listed in the table. Those reactions listed in Column one encompass observations in approximately 3,000 patients. More than 500 of these patients were treated for periods of at least 54 weeks.

Still other reactions occurring less frequently than 1 in 100 were reported in controlled clinical trials and from marketing experience. These reactions have been divided into two categories: Column two of the following table lists reactions with therapy with MOTRIN where the probability of a causal relationship exists: for the reactions in Column three, a causal relationship with MOTRIN has not been established. Reported side effects were higher at doses of 3200 mg/day than at doses of 2400 mg or less per day in clinical trials of patients with rheumatoid arthritis. The increases in incidence were slight and still within the ranges reported in the following table.

[See table on next page]

OVERDOSAGE

Approximately $1\frac{1}{2}$ hours after the reported ingestion of from 7 to 10 MOTRIN Tablets (ibuprofen) (400 mg), a 19month old child weighing 12 kg was seen in the hospital emergency room, apneic and cyanotic, responding only to painful stimuli. This type of stimulus, however, was sufficient to induce respiration. Oxygen and parenteral fluids were given; a greenish-yellow fluid was aspirated from the stomach with no evidence to indicate the presence of ibuprofen. Two hours after ingestion the child's condition seemed stable; she still responded only to painful stimuli and continued to have periods of apnea lasting from 5 to 10 sec-

Continued on next page

Information on these Upjohn products is based on labeling in effect September 1, 1987. Further information concerning these and other Upjohn products may be obtained by direct inquiry to Medical Information, The Upjohn Company, Kalamazoo, Michigan 49001.

Product Information

Always consult Supplement

Upjohn—Cont. onds. She was admitted to intensive care and sodium bicarbonate was administered as well as infusions of dextrose and normal saline. By four hours post-ingestion she could be aroused easily, sit by herself and respond to spoken commands. Blood level of ibuprofen was 102.9 µg/ml approximately 8½ hours after accidental ingestion. At 12 hours she appeared to be completely recovered. In two other reported cases where children (each weighing approximately 10 kg) accidentally, acutely ingested approximately 10 kg) accidentally, acutely ingested approximately 10 kg) accidentally. Auter reported cases where children (each weighing approximately 10 kg) accidentally, acutely ingested approximately 10 kg, there were no signs of acute intoxication or late sequelae. Blood level in one child 90 minutes after ingestion was 700 µg/ml—about 10 times the peak levels seen in absorption-excretion studies. A 19-year old male who had take 8,00 A 19-year old male who had take the 8,00 A respective of a few hours complained of diziness, and nystagmus was noted. After hospitalization, parenteral hydration and three days' bed rest, he recovered with no reported sequelae. In cases of acute overdosage, the stomach should be emptied by vomiting or lavage, though little drug will likely be recovered if more than an hour has elapsed since ingestion. Because the drug is acidic and is excreted in the urine, it is theoretically beneficial to administer alkali and induce diversis. In addition to supportive measures the use of oral activated of MOTRIN.	efficacy. Therefore, when treating patients with 3200 mg/day, the physician should observe sufficient increased clinical benefits to offset potential increased risk. The dose should be tailored to each patient, and may be lowered or raised depending on the severity of symptoms either at time of initiating drug therapy or as the patient responds or fails to respond. In general, patients with rheumatoid arthritis seem to require higher doses of MOTRIN than do patients with osteoarthritis. The smallest dose of MOTRIN that yields acceptable control should be employed. A linear blood level dose-response relationship exists with single doses up to 800 mg (See CLINI-CAL PHARMACOLOGY for effects of food on rate of absorption). The availability of four tablet strengths facilitates dosage adjustment. In chronic conditions, a therapeutic response to therapy with MOTRIN is sometimes seen in a few days to a week but most often is observed by two weeks. After a satisfactory response has been achieved, the patient's doses should be reviewed and adjusted as required. Mid of hours as necessary for relief of pain. In controlled analgesic clinical trials, doses of MOTRIN is cometimes as the set of the dot may be and adjusted as a dot for a some effective than the 400 mg dose. Dysmenorrhea: For the treatment of dysmenorrhea, beginning with the ear-	MOTRIN Tablets, 600 mg (peach) NDC 0009-0742.05 Unit-dose package of 100 NDC 0009-0742.05 Bottles of 500 NDC 0009-0742.03 MOTRIN Tablets, 800 mg (apricot) NDC 0009-0725.03 Bottles of 500 NDC 0009-0725.03 Unit-dose package of 100 NDC 0009-0725.03 Unit-dose package of 100 NDC 0009-0725.03 Unit-dose package of 100 NDC 0009-0725.03 Unit of Use bottles of 50 NDC 0009-0725.03 Unit of Use bottles of 50 NDC 0009-0725.03 Unit of Use bottles of 50 NDC 0009-0725.03 Code 810 015 225 Shown in Product Identification Section, page 433 MYCIGUENT® Antibiotic Ointment (See PDR For Nonprescription Drugs) MYCITRACIN® Triple Antibiotic Ointment (See PDR For Nonprescription Drugs) ORINASE® B brand of tolbutamide tablets, USP 0.5 gram, 100's, Unit Dose 0.5 gram, 100's, Unit Dose NSN 6505-00-131-9268 (M)
DOSAGE AND ADMINISTRATION Do not exceed '3200 mg total daily dose. If gastrointestinal complaints occur, administer MOTRIN Tablets (ibuprofen) with meals or milk. Rheumatoid arthritis and osteoarthritis, including flare-ups of chronic disease: Suggested Dosage: 1200 mg-3200 mg daily (300 mg qid; 400 mg, 600 mg or 800 mg tid or qid). Individual patients may show a better response to 3200 mg daily, as compared with 2400 mg, although in well-controlled clinical trials patients on 3200 mg did not show a better mean response in terms of	Not not of such pain, MOTRIN should be given in a dose of 400 mg every 4 hours as necessary for the relief of pain. HOW SUPPLIED MOTRIN Tablets (buprofen) are supplied as follows: MOTRIN Tablets, 300 mg (white) Bottles of 500 NDC 0009-0733-02 Unit of Use bottles of 60 NDC 0009-0733-01 MOTRIN Tablets, 400 mg (orange) Bottles of 500 NDC 0009-0750-02 Unit of Use bottles of 100 NDC 0009-0750-25	DESCRIPTION ORINASE Tablets contain tolbutamide, an oral blood glu- cose lowering drug of the sulfonylurea category. Tolbuta- mide is a pure white crystalline compound practically insolu- ble in water but forming water-soluble salts with alkalies. The chemical names for tolbutamide are (1) Benzenesulfona- mide, N-[(butylamino) carbonyl]4-methyl; (2) 1-Butyl-3tp- tolylsulfonyllurea and its molecular weight is 270.35. Each ORINASE Tablet for oral administration contains 250 mg - aluminum hydroxide, dibasic calcium phosphate, mag- nesium aluminum silicate, magnesium stearate; 500
MOTRIN Incidence Greater than 1% (but less than 3%) Probable Causal Relationship	Precise Incidence Unknown (but less than 1%) Probable Causal Relationship**	Precise Incidence Unknown (but less than 1%) Causal Relationship Unknown**
GASTROINTESTINAL Nausea*, epigastric pain*, heartburn*, diarrhea, abdominal distress, nausea and vomiting, indi- gestion, constipation, abdominal cramps or pain, fullness of GI tract (bloating and flatulence)	Gastric or duodenal ulcer with bleeding and/or perforation, gastrointestinal hemorrhage, mele- na, gastritis, hepatitis, jaundice, abnormal liver function tests; pancreatis	and a sub-inflation space. An prelimination was an account of the space of the sub-inflation of the sub-inflation. Sub-inflation of the sub-inflation of the sub-inflation.
CENTRAL NERVOUS SYSTEM Dizziness*, headache, nervousness	Depression, insomnia, confusion, emotional labil- ity, somnolence, aseptic meningitis with fever and coma	Paresthesias, hallucinations, dream abnormalities, pseudo- tumor cerebri
DERMATOLOGIC Rash [*] (including maculopapular type), pruritis	Vesiculobullous eruptions, urticaria, erythema multiforme, Stevens-Johnson syndrome, alopecia	Toxic epidermal necrolysis, photoallergic skin reactions
SPECIAL SENSES Tinnitus	Hearing loss, amblyopia (blurred and/or di- minished vision, scotomata and/or changes in color vision) (see PRECAUTIONS)	Conjunctivitis, diplopia, optic neuritis, cataracts
HEMATOLOGIC	Neutropenia, agranulocytosis, aplastic anemia, hemolytic anemia (sometimes Coombs positive), thrombocytopenia with or without purpura, eosinophilia, decreases in hemoglobin and hematocrit (see PRECAUTIONS)	Bleeding episodes (eg epistaxis, menorrhagia)
METABOLIC/ENDOCRINE Decreased appetite	the safety of horself are advanted with through send leader. have not been you dealed Direct interestions (caunative-part bhildings area). Several	Gynecomastia, hypoglycemic reaction, acidosis
CARDIOVASCULAR Edema, fluid retention (generally responds promptly to drug discontinuation; see PRECAU- TIONS)	Congestive heart failure in patients with marginal cardiac function, elevated blood pressure, palpi- tations	Arrhythmias (sinus tachycardia, sinus bradycardia)
ALLERGIC	Syndrome of abdominal pain, fever, chills, nausea and vomiting; anaphylaxis; bronchospasm (see CONTRAINDICATIONS)	Serum sickness, lupus erythe- matosus syndrome, Henoch- Schönlein vasculitis, angioedema
RENAL	Acute renal failure (see PRECAUTIONS), decreased creatinine clearance, polyuria, azotemia, cystitis,	Renal papillary necrosis

MISCELLANEOUS

Dry eyes and mouth, gingival ulcer, rhinitis

Reactions occurring in 3% to 9% of patients treated with MOTRIN. (Those reactions occurring in less than 3% of the patients are unmarked).
 Reactions are classified under "Probable Causal Relationship (PCR)" if there has been one positive rechallenge or if three or more cases occur which might be causally related. Reactions are classified under "Causal Relationship Unknown" if seven or more events have been reported but the criteria for PCR have not been met.