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MEDICAL ECONOMICS

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Hyzaar-Cont.

tients with a history of hepatic impairment (see WARN-INGS, Impaired Hepatic Function). Losartan can be admin-istered once or twice daily at total daily doses of 25 to 100 mg. If the antihypertensive effect measured at trough using once-a-day dosing is inadequate, a twice-a-day regimen at the same total daily dose or an increase in dose may give a more satisfactory response. Hydrochhorothiazide is effective in doses of 12.5 to 50 mg once daily and can be given at doses of 12.5 to 25 mg as

HYZAAR

To minimize dose-independent side effects, it is usually ap-To minimize dose-independent side effects, it is usually ap-propriate to begin combination therapy only after a patient has failed to achieve the desired effect with monotherapy. The side effects (see WARNINGS) of losartan are generally rare and apparently independent of dose; those of hydro-chlorothiazide are a mixture of dose-dependent (primarily hypokalemia) and dose-independent phenomena (e.g., pan-creatitis), the former much more common than the latter. Therapy with any combination of losartan and hydrochloro-thiazide will be associated with both sets of dose-indepen-dent side effects. dent side effects.

Replacement Therapy: The combination may be subti-tuted for the titrated components.

Dose Titration by Clinical Effect: A patient whose blood pressure is not adequately controlled with losartan mono-therapy (see above) may be switched to HYZAAR 50-12.5 (losartan 50 mg/hydrochlorothiazide 12.5 mg) once daily. If (losartan 50 mg/hydrochlorothiazide 12.5 mg) once daily. If blood pressure remains uncontrolled after about 3 weeks of therapy, the dose may be increased to two tablets of HYZ-AAR 50-12.5 once daily or one tablet of HYZAAR 100-25 (losartan 100 mg/hydrochlorothiazide 25 mg) once daily. A patient whose blood pressure is inadequately controlled by 25 mg once daily of hydrochlorothiazide, or is controlled but who experiences hypokalemia with this regimen, may be switched to HYZAAR 50-12.5 (losartan 50 mg/hydrochlo-othicazide, 12.5 mc) once daily reducing the dose of hydroc

rothiazide 12.5 mg) once daily, reducing the dose of hydro-chlorothiazide without reducing the overall expected antichiorothazide without reducing the overall expected without reducing the overall expected without reducing the overall expected without the subsequently evaluated and if blood pressure remains uncontrolled after about 3 weeks of therapy, the dose may be increased to two tablets of HYZAAR 50-12.5 once daily or one tablet of HYZAAR 100-25 (losartan 100 exclusion) and the subsequently evaluated adult.

100 mg/hydrochlorothiazide 25 mg) once daily. The usual dose of HYZAAR is one tablet of HYZAAR 50-12.5 once daily. More than two tablets of HYZAAR 50-12.5 once daily or more than net tablet of HYZAAR 100-25 once daily is not recommended. The maximal antihypertensive effect is attained about 3 weeks after initiation of therapy. Use in Patients with Renal Impairment: The usual regi-

Use in Patients with Renal Impairment: The usual regi-mens of therapy with HYZAAR may be followed as long as the patient's creatinine clearance is >80 mL/min. In pa-tients with more severe renal impairment, loop diuretics are preferred to thiazides, so HYZAAR is not recommended. Patients with Hepatic Impairment: HYZAAR is not recom-mended for titration in patients with hepatic impairment (see WARNINGS, Impaired Hepatic Function) because the appropriate 25 mg starting dose of losartan cannot be given. HYZAAR may be administered with other antihypertensive agents.

HYZAAR may be administered with or without food.

HOW SUPPLIED

No. 3502—Tablets HYZAAR, 50-12.5 are yellow, teardrop shaped, film-coated tablets, coded MRK 717 on one side and HYZAAR on the other. Each tablet contains 50 mg of losar-tan potassium and 12.5 mg of hydrochlorothiazide. They are supplied as follow: supplied as follows:

supplied as follows: NDC 0006-0717-51 unit of use bottles of 30 NDC 0006-0717-54 unit of use bottles of 90 NDC 0006-0717-58 unit of use bottles of 100. NDC 0006-0717-28 unit of use bottles of 1,000. Shown in Product Identification Guide, page 323 No. 3793-Tablets HYZAAR 100-25 are light yellow, tear-drog shaped, film-coated tablets, coded MRK 747 on one side and HYZAAR on the other. Each tablet contains 100 mg of losartan potassium and 25 mg of hydrochlorothiazide. They are supplied as follows: They are supplied as follows: NDC 0006-0747-31 unit of use bottles of 30

NDC 0006-0747-58 unit of use bottles of 100 NDC 0006-0747-28 unit dose packages of 100.

Shown in Product Identification Guide, page 323

Storage Store at 25°C (77°F); excursions permitted to 15-30°C (59-86°F) [see USP Controlled Room Temperature]. Keep con-tainer tightly closed. Protect from light.

Manufactured for: MERCK & CO., INC., West Point, PA 19486, USA

DuPont Pharma, Wilmington, DE 19880 USA 7892813 Issued December 1999 COPYRIGHT © MERCK & CO., Inc., 1995 All rights reserved.

INDOCIN® Capsules, Oral Suspension and Suppositories (Indomethacin)

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INDOCIN is supplied in three dosage forms. Capsules IN-DOCIN for oral administration contain either 25 mg or 50 mg of indomethacin and the following inactive ingredients: colloidal silicon dioxide, FD & C Blue 1, FD & C Red 3, gelatin, lactose, lecithin, magnesium stearate, and titanium di-oxide. Suspension INDOCIN for oral use contains 25 mg of indomethacin per 5 mL, alcohol 1%, and sorbic acid 0.1% added as a preservative and the following inactive ingredients: antifoam AF emulsion, flavors, purified water, sodium hydroxide or hydrochloric acid to adjust pH, sorbitol solu-tion, tragacanth. Suppositories INDOCIN for rectal use con-tain 50 mg of indomethacin and the following inactive ingredients: butylated hydroxyanisole, butylated hydroxytolu-ene, edetic acid, glycerin, polyethylene glycol 3350, polyethylene glycol 8000 and sodium chloride. Indomethacin is a non-steroidal anti-inflammatory indole derivative designated chemically as 1-(4-chlorobenzoyl)-5-methoxy-2-methyl-1H -indole-3-acetic acid. Indomethacin is practically insoluble in water and sparingly soluble in alcohol. It has a pKa of 4.5 and is stable in neutral or slightly acidic media and decomposes in strong alkali. The suspension has a pH of 4.0-5.0. The structural formula is:



*Registered trademark of MERCK & CO., INC.

CLINICAL PHARMACOLOGY

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

NDOCIN is a potent inhibitor of prostaglandin synthesis in vitro. Concentrations are reached during therapy which have been demonstrated to have an effect in vivo as well. Prostaglandins sensitize afferent nerves and potentiate the action of bradykinin in inducing pain in animal models. Moreover, prostaglandins are known to be among the me-diators of inflammation. Since indomethacin is an inhibitor of prostaglandin synthesis, its mode of action may be due to se of prostaglandins in peripheral tissue

INDOCIN has been shown to be an effective anti-inflammatory agent, appropriate for long-term use in rheumatoid ar-

tory agent, appropriate for long-term use in international at-thritis, ankylosing spondylitis, and osteoarthritis. INDOCIN affords relief of symptoms; it does not alter the progressive course of the underlying disease. INDOCIN suppresses inflammation in rheumatoid arthritis

as demonstrated by relief of pain, and reduction of fever, swelling and tenderness. Improvement in patients treated with INDOCIN for rheumatoid arthritis has been demonstrated by a reduction in joint swelling, average number of joints involved, and morning stiffness; by increased mobility as demonstrated by a decrease in walking time; and by improved functional capability as demonstrated by an increase

in grip strength. Indomethacin has been reported to diminish basal and CO_2 stimulated cerebral blood flow in healthy volunteers following acute oral and intravenous administration. In one study after one week of treatment with orally administered indomethacin, this effect on basal cerebral blood flow had disappeared. The clinical significance of this effect has not been established

Capsules INDOCIN have been found effective in relieving the pain, reducing the fever, swelling, redness, and tender-ness of acute gouty arthritis—see INDICATIONS.

Following single oral doses of Capsules INDOCIN 25 mg or 50 mg, indomethacin is readily absorbed, attaining peak plasma concentrations of about 1 and 2 mcg/mL, respectively, at about 2 hours. Orally administered Capsules IN-DOCIN are virtually 100% bioavailable, with 90% of the dose absorbed within 4 hours. A single 50 mg dose of Oral Suspension INDOCIN was found to be bioequivalent to a 50 mg INDOCIN capsule when each was administered with

Indomethacin is eliminated via renal excretion, metabolism, and biliary excretion. Indomethacin undergoes appreciable enterohepatic circulation. The mean half-life of indomethacin is estimated to be about 4.5 hours. With a typical therplasma concentrations of indomethacin are an average 1.4 times those following the first dose.

The rate of absorption is more rapid from the rectal suppos-itory than from Capsules INDOCIN. Ordinarily, therefore, the total amount absorbed from the suppository would be expected to be at least equivalent to the capsule. In controlled clinical trials, however, the amount of indomethacin absorbed was found to be somewhat less (80-90%) than that absorbed from Capsules INDOCIN. This is probably because some subjects did not retain the material from the Indomethacin exists in the plasma as the parent drug and its desmethyl, desbenzoyl, and desmethyl-desbenzoyl metabolites, all in the unconjugated form. About 60 percent of an oral dosage is recovered in urine as drug and metabolites (26 percent as indomethacin and its glucuronide), and 33 percent is recovered in feces (1.5 percent as indomethacin). About 99% of indomethacin is bound to protein in plasma About 99% of indomethacin is bound to protein in plasma over the expected range of therapeutic plasma concen-trations. Indomethacin has been found to cross the blood-brain barrier and the placenta. In a gastroscopic study in 45 healthy subjects, the number

of gastric mucosal abnormalities was significantly higher in the group receiving Capsules INDOCIN than in the group taking Suppositories INDOCIN or placebo.

In a double-blind comparative clinical study involving 175 patients with rheumatoid arthritis, however, the incidence of upper gastrointestinal adverse effects with Suppositories or Capsules INDOCIN was comparable. The incidence of lower gastrointestinal adverse effects was greater in the suppository group.

INDICATIONS

Indomethacin has been found effective in active stages of the following:

- 1. Moderate to severe rheumatoid arthritis including acute flares of chronic disease
- 2. Moderate to severe ankylosing spondylitis.
- 3. Moderate to severe osteoarthritis 4. Acute painful shoulder (bursitis and/or tendinitis).
- 5. Acute gouty arthritis.

INDOCIN may enable the reduction of steroid dosage in patients receiving steroids for the more severe forms of rheu-matoid arthritis. In such instances the steroid dosage should be reduced slowly and the patients followed very closely for any possible adverse effects. The use of INDOCIN in conjunction with aspirin or other

salicylates is not recommended. Controlled clinical studies have shown that the combined use of INDOCIN and aspirin does not produce any greater therapeutic effect than the use of INDOCIN alone. Furthermore, in one of these clinical studies, the incidence of gastrointestinal side effects was significantly increased with combined therapy (see DRUG INTERACTIONS).

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 anti-

inflammatory 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 patient should be prescribed. Increased dosage tends to increase adverse effects, particularly in doses over 150-200 mg/day, without corresponding increase in clinical benefits.
- 2. Careful instructions to, and observations of, the individ-ual patient are essential to the prevention of serious adverse reactions. As advancing years appear to increase the possibility of adverse reactions, INDOCIN should be used with greater care in the elderly. 3. Effectiveness of INDOCIN in pediatric patients has not
- been established. INDOCIN should not be prescribed for pediatric patients 14 years of age and younger unless tox-icity or lack of efficacy associated with other drugs warrants the risk.

In experience with more than 900 pediatric patients re-ported in the literature or to the manufacturer who were treated with Capsules INDOCIN, side effects in pediatric patients were comparable to those reported in adults. Experience in pediatric patients has been confined to the use of Capsules INDOCIN.

If a decision is made to use indomethacin for pediatric patients two years of age or older, such patients should be monitored closely and periodic assessment of liver func-tion is recommended. There have been cases of hepatotoxicity reported in pediatric patients 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. 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.

pain in ulcerative colitis patients or the development of ulcerative colitis and regional ileitis have been reported to oc-

cerative contribution and regional nerves never the technological sectors of the occurrence, and at times severity, of gastro-intestinal reactions to INDOCIN, the prescribing physician must be continuously alert for any sign or symptom signal-ing a possible gastrointestinal reaction. The risks of con-tinuing therapy with INDOCIN in the face of such symp-toms must be weighed against the possible benefits to the individual partiant.

toms must be weighed against the possible believe of the individual patient. INDOCIN should not be given to patients with active gas-trointestinal lesions except under circumstances which warrant the very high risk and where patients can be monitored very closely. closely.

The gastrointestinal effects may be reduced by giving Cap-sules INDOCIN immediately after meals, with food, or with

The gastrointestinal effects may be reduced by giving outp-sules INDOCIN immediately after meals, with food, or with antacids. *Risk of GI Ulcerations, Bleeding and Perforation with NSAID Therapy* Serious gastrointestinal toxicity such as bleeding, ulcer-ation, and perforation, can occur at any time, with or with-out warning symptoms, in patients treated chronically with NSAD therapy. Although minor upper gastrointestinal problems, such as dyspepsia, are common, usually develop-ing early in therapy, physicians should remain alert for ul-ceration and bleeding in patients treated chronically with NSAID seven in the absence of previous GI tract symptoms. In patients observed in clinical trials of several months to two years duration, symptomatic upper GI ulcers, gross bleeding or perforation appear to occur in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for a -6 months, and in about 2-4% of patients treated for one year. Physicians should inform pa-tients about the signs and/or symptoms of serious GI toxic-ity and what steps to take if they occur. Studies to date have not identified any subset of patients factors known to be associated with peptic ulcer disease, such as alcoholism, smoking, etc., no risk factors (e.g., age, sex) have been associated with increased risk. Elderly or de-bilitated patients seem to tolerate ulceration or bleeding less well than other individuals and most spontaneous re-ports of fatal GI events are in this population. Studies to date are inconclusive concerning the relative risk of various NSAID probaby earry a greater risk of these reactions, al-though controlled clinical trials showing this do not exist in most cases. In considering the use of relatively large doses (within the recommended dosage range), sufficient benefit should be anticipated to offset the potential increased risk of (within the recommended dosage range), sufficient benefit should be anticipated to offset the potential increased risk of GI toxicity.

Renal Effects:

As with other non-steroidal anti-inflammatory drugs, long term administration of indomethacin 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 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 for-mation and may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with conditions such as renal or hepatic dysfunction, diabetes mel-litus, advanced age, extracellular volume depletion from any cause, congestive heart failure, septicemia, pyelonephritis, or concomitant use of any nephrotoxic drug. INDO-CIN 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 hyporenine-mic-hypoaldosteronism state (see PRECAUTIONS, Drug Interactions).

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 be-tween 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 thor-ough opthalmological 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

Incidence greater than 1%	
GASTROINTESTINAL	
nausea* with or	
without vomiting	
dyspepsia*	
(including	
indigestion,	
hearthurn and	
epigastric pain)	
diarrhea	
abdominal distress	
or pain	
constipation	

CENTRAL NERVOUS SYSTEM headache (11.7%) dizziness vertigo somnolence depression and fatigue (including malaise and listlessness)

SPECIAL SENSES tinnitus

Incidence less than 1%

anorexia bloating (includes distention) flatulence peptic ulcer gastroenteritis rectal bleeding proctitis single or multiple ulcerations, including perforation and hemorrhage of the esophagus, stomach. duodenum or small and large intestines intestinal ulceration associated with stenosis and obstruction anxiety (includes nervousness) muscle weakness involuntary muscle movements insomnia muzziness psychic disturbances including psychotic episodes mental confusion drowsiness ocular-corneal deposits and retinal disturbances, including those of the macula, have been reported in some patients on prolonged therap with INDOCIN

MERCK/1947

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 iaundice (some fatal cases have been reported) intestinal strictures (diaphragms)

light-headedness syncope paresthesia aggravation of epilepsy and parkinsonism

depersonalization coma peripheral neuropathy convulsions dysarthria

blurred vision diplopia hearing disturbances. deafness

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. The known effects of indomethacin and other drugs of this class on the human fetus during the third trimester of pregnancy include: constriction of the ductus arteriosus prenatally, tricuspid incompetence, and pulmonary hypertension; non-closure of the ductus arteriosus postnatally which may be resistant to medical management; myocardial degenerative changes, platelet dysfunction with resultant bleeding, intrachanges, platelet dysfunction with resultant bleeding, intra-cranial bleeding, renal dysfunction or failure, renal injury/ dysgenesis which may result in prolonged or permanent re-nal failure, oligohydramnios, gastrointestinal bleeding or perforation, and increased risk of necrotizing enterocolitis. Teratogenic studies were conducted in mice and rats at dos-ted to an effective the constraint for retarded ages of 0.5, 1.0, 2.0, and 4.0 mg/kg/day. Except for retarded ages of 0.5, 1.0, 2.0, and 4.0 mg/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 aspirin 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 fe-tuses 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

General Non-steroidal anti-inflammatory drugs, including INDO-CIN. may mask the usual signs and symptoms of infection. non-steroidal anti-inflammatory drugs, INDOCIN should be used with caution in patients with cardiac dysfunction, hypertension, or other conditions predisposing to fluid retention.

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

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 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 reaction 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-inflamma-tory 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 mani-festations occur (e.g., cosinophilia, rash, etc.), INDOCIN should be discontinued.

Information for Patients

INDOCIN, like other drugs of its class, is not free of side effects. The side effects of these drugs can cause discomfort and, rarely, there are more serious side effects such as gas-trointestinal bleeding, which may result in hospitelization and even fatal outcomes

Continued on next page

Indocin-Cont.

NSAIDs (Non-steroidal Anti-inflammatory Drugs) are often essential agents in the management of arthritis; but they also may be commonly employed for conditions which are less serious.

Physicians may wish to discuss with their patients the po-tential risks (see WARNINGS, PRECAUTIONS and AD-VERSE REACTIONS) and likely benefits of NSAID treatment, particularly when the drugs are used for less serious conditions where treatment without NSAIDs may represent an acceptable alternative to both the patient and physician. Laboratory Tests

Because serious GI tract ulceration and bleeding can occur without warning symptoms, physicians should follow chron-ically treated patients for the signs and symptoms of ulcer-ation and bleeding and should inform them of the importance of this follow-up (see WARNINGS, Risk of GI Ulcer-ations, Bleeding and Perforation with NSAID Therapy). 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 carcinogenic studies in the rat (dosing period 73-110 weeks) and the mouse (dosing pe-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 *Dro*sophila, and the micronucleus test in mice.

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 diffunisal decreased the renal clearance and sig-nificantly increased the plasma levels of indomethacin. In some patients, combined use of INDOCIN and diffunisal has been associated with fatal gastrointestinal hemorrhage. Therefore, diffunisal and INDOCIN should not be used concomitantly

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%. The concomitant use of INDOCIN with other NSAIDs is not

recommended due to the increased possibility of gastroin-testinal toxicity, with little or no increase in efficacy. 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 ther-apy, the patients should be observed for alterations of the

aby, 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.

Caution should be used if INDOCIN is administered simultaneously with methotrexate. INDOCIN has been reported to decrease the tubular secretion of methotrexate and to potentiate its toxicity.

Administration of non-steroidal anti-inflammatory drugs concomitantly with cyclosporine has been associated with an increase in cyclosporine induced toxicity, possibly due to decreased synthesis of renal prostacyclin. NSAIDs should be used with caution in patients taking cyclosporine, and renal function should be monitored.

Capsules INDOCIN 50 mg t.i.d. produced a clinically relevant elevation of plasma lithium and reduction in renal lithium clearance in psychiatric patients and normal subjects with steady state plasma lithium concentrations. This effect has been attributed to inhibition of prostaglandin synthesis. As a consequence, when INDOCIN and lithium are given concomitantly, the patient should be carefully observed for signs of lithium toxicity. (Read circulars for lithium preparations before use of such concomitant therapy.) In addition, the frequency of monitoring serum lithium concentration should be increased at the outset of such combination drug treatment

INDOCIN given concomitantly with digoxin has been : ported to increase the serum concentration and prolong the half-life of digoxin. Therefore, when INDOCIN and digoxin are used concomitantly, serum digoxin levels should be closely monitored.

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

INDOCIN reduces basal plasma renin activity (PRA), as well as those elevations of PRA induced by furosemide ad-ministration, or salt or volume depletion. These facts should e considered when evaluating plasma renin activity in

Incidence greater than 1% CARDIOVASCULAR

METABOLIC none

INTEGUMENTARY none

HEMATOLOGIC none

HYPERSENSITIVITY none

GENITOURINARY none

MISCELLANEOUS none

Incidence less than 1%

hypertension hypotension tachycardia chest pain

edema weight gain fluid retention flushing or sweating

pruritus rash; urticaria petechiae or ecchymosis

leukopenia hone 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

epistaxis breast changes, including enlargement and tenderness, or gynecomastia

PHYSICIANS' DESK REFERENCE®

congestive heart failure arrhythmia; palpitations

hyperglycemia glycosuria hyperkalemia

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

aplastic anemia hemolytic anemia agranulocytosis thrombocytopenic purpura disseminated intravascular coagulation

dyspnea asthma purpura angiitis pulmonary edema fever

BUN elevation renal insufficiency, including renal failure

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

INDOCIN and potassium-sparing diuretics each may be associated with increased serum potassium levels. The poten-tial effects of INDOCIN and potassium-sparing diuretics on potassium kinetics and renal function should be considered when these agents are administered concurrently.

Most of the above effects concerning diuretics have been at-tributed, at least in part, to mechanisms involving inhibition of prostaglandin synthesis by INDOCIN.

Blunting of the antihypertensive effect of beta-adrenoceptor blocking agents by non-steroidal anti-inflammatory drugs including INDOCIN has been reported. Therefore, when using these blocking agents to treat hypertension, patients should be observed carefully in order to confirm that the de-sired therapeutic effect has been obtained. There are reports that INDOCIN can reduce the antihypertensive effect of captopril in some patients.

False-negative results in the dexamethasone suppression test (DST) in patients being treated with INDOCIN have been reported. Thus, results of the DST should be interpreted with caution in these patients. . Pediatric Use

Effectiveness in pediatric patients 14 years of age and younger has not been established (see WARNINGS). Geriatric Use

As with any NSAID, caution should be exercised in treating the elderly (65 years and older) since advancing age appears to increase the possibility of adverse reactions (see WARN-INGS, General; and DOSAGE AND ADMINISTRATION). Elderly patients seem to tolerate ulceration or bleeding less well than other individuals and many spontaneous reports of fatal GI events are in this population (see WARNINGS, Risk of GI Ulcerations, Bleeding and Perforation with NSAID Therapy).

Indomethacin may cause confusion or, rarely, psychosis (see ADVERSE REACTIONS); physicians should remain alert to the possibility of such adverse effects in the elderly.

This drug is known to be substantially excreted by the kidney and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection and it may be useful to monitor renal function (see WARNINGS Renal

cidence greater than 1%; and (2) incidence less than 1%. The incidence for group (1) was obtained from 33 double-(1,092 patients). The incidence for group (2) was based on reports in clinical trials, in the literature, and on voluntary reports since marketing. The probability of a causal rela-tionship exists between INDOCIN and these adverse reactions, some of which have been reported only rarely.

The adverse reactions reported with Capsules INDOCIN may occur with use of the suppositories. In addition, rectal irritation and tenesmus have been reported in patients who have received the suppositories.

The adverse reactions reported with Capsules INDOCIN may also occur with use of the suspension.

[See table at top of previous page]

[See table above]

Causal relationship unknown: Other reactions have been reported but occurred under circumstances where a causal relationship could not be established. However, in these rarely reported events, the possibility cannot be excluded. Therefore, these observations are being listed to serve as alerting information to physicians:

Cardiovascular: Thrombophlebitis Hematologic: Although there have been several reports of leukemia, the supporting information is weak.

Genitourinary: Urinary frequency. A rare occurrence of fulminant necrotizing fasciitis, particularly in association with Group A β -hemolytic streptococcus, has been described in persons treated with non-steroidal anti-inflammatory agents, including indomethacin, sometimes with fatal outcome (see also PRECAUTIONS, General).

OVERDOSAGE

The following symptoms may be observed following overdos-age: nausea, vomiting, intense headache, dizziness, mental confusion, disorientation, or lethargy. There have been reports of paresthesias, numbness, and convulsions. Treatment is symptomatic and supportive. The stomach

should be emptied as quickly as possible if the ingestion is

none

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