



HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use INDOMETHACIN

EXTENDED-RELEASE CAPSULES safely and effectively. See full prescribing information for INDOMETHACIN EXTENDED-RELEASE CAPSULES.

INDOMETHACIN extended-release capsules, for oral use

### WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS

See full prescribing information for complete boxed warning. Nonsteroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic events, including myocardial infarction and stroke, which can be fatal. This risk may occur early in treatment and may increase with duration of use (5.1)

Indomethacin extended-release capsules are contraindicated in the setting of nary artery bypass graft (CABG) surgery (4, 5.1)

NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients and patients with a prior history of peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events (5.2)

7/2024

-----RECENT MAJOR CHANGES-Warnings and Precautions, Serious Skin Reactions (5.9) Adverse Reactions, Postmarketing Experience (6.2)

----INDICATIONS AND USAGE--Indomethacin extended-release capsules are a nonsteroidal anti-inflammatory drug indicated for:

Moderate to severe rheumatoid arthritis including acute flares of chronic disease Moderate to severe ankylosing spondylitis Moderate to severe osteoarthritis

Acute painful shoulder (bursitis and/or tendinitis) (1)

### -----DOSAGE AND ADMINISTRATION-

#### Use the lowest effective dosage for shortest duration consistent with individual patient treatment goals (2.1)

The dosage for moderate to severe rheumatoid arthritis including acute flares of chronic disease; moderate to severe ankylosing spondylitis; and moderate to severe osteoarthritis is one indomethacin extended-release 75 mg capsule daily (2.2) dosage for acute painful shoulder (bursitis and/or tendinitis) is one indomethacin extended-release 75 mg capsule once or twice daily (2.3)

-----DOSAGE FORMS AND STRENGTHS--Indomethacin extended-release capsules USP: 75 mg (3)

----CONTRAINDICATIONS----Known hypersensitivity to indomethacin or any components of the drug product (4) History of asthma, urticaria, or other allergic-type reactions after taking aspirin or

other NSAIDs (4)

In the setting of CABG surgery (4) -----WARNINGS AND PRECAUTIONS----

<u>Hepatotoxicity</u>: Inform patients of warning signs and symptoms of hepatotoxicity. Discontinue if abnormal liver tests persist or worsen or if clinical signs and symptoms of liver disease develop (5.3)

Hypertension: Patients taking some antihypertensive medications may have impaired response to these therapies when taking NSAIDs. Monitor blood pressure

### FULL PRESCRIBING INFORMATION: CONTENTS\* WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS INDICATIONS AND USAGE

### DOSAGE AND ADMINISTRATION

- General Dosing Instructions
- 2.2 Moderate to severe rheumatoid arthritis including acute flares of chronic disease; moderate to severe ankylosing spondylitis; and moderate to severe
- 2.3 Acute painful shoulder (bursitis and/or tendinitis)

### DOSAGE FORMS AND STRENGTHS

- CONTRAINDICATIONS
- WARNINGS AND PRECAUTIONS
  - 5.1 Cardiovascular Thrombotic Events5.2 Gastrointestinal Bleeding, Ulceration, and Perforation
  - Hepatotoxicity 5.4 Hypertension
  - Heart Failure and Edema Renal Toxicity and Hyperkalemia
  - Anaphylactic Reactions
  - Exacerbation of Asthma Related to Aspirin Sensitivity Serious Skin Reactions 5.10 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)
  - 5.11 Fetal Toxicity
    5.12 Hematologic Toxicity
- 5.13 Masking of Inflammation and Fever 5.14 Laboratory Monitoring 5.15 Central Nervous System Effects
- 5.16 Ocular Effects

### FULL PRESCRIBING INFORMATION WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL

Cardiovascular Thrombotic Events Nonsteroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic events, including myocardial infarction and stroke, which can be fatal. This risk may occur early in treatment and may increase with duration of use [see Warnings and Precautions (5.1)]. Indomethacin extended-release capsules are contraindicated in the setting of coronary artery bypass graft (CABG) surgery [see Contraindications (4) and Warning (5.1)].

Gastrointestinal Bleeding, Ulceration, and Perforation

NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the stomach of testines, which can be fatal. These events can occur at any time dur

use and without warning symptoms. Elderly patients and patients with a prio

### history of pentic ulcer disease and/or GI bleeding are at greater risk for serious GI events [see Warnings and Precautions (5.2)].

- Indomethacin extended-release capsules are indicated for:
- Moderate to severe rheumatoid arthritis including acute flares of chronic disease Moderate to severe ankylosing spondylitis
- Moderate to severe osteoarthritis Acute painful shoulder (bursitis and/or tendinitis)

### DOSAGE AND ADMINISTRATION 2.1 General Dosing Instructions

Carefully consider the potential benefits and risks of indomethacin extended-release capsules and other treatment options before deciding to use indomethacin extendedrelease capsules. Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals [see Warnings and Precautions (5)]. After observing the response to initial therapy with indomethacin, the dose and frequency

should be adjusted to suit an individual patient's needs. Adverse reactions generally appear to correlate with the dose of indomethacin. Therefore, every effort should be made to determine the lowest effective dosage for the individual

THIS SECTION PREDOMINANTLY REFERENCES THE INDOMETHACIN IMMEDIATE-RELEASE CAPSULE ORAL DOSAGE AND IS INTENDED TO PROVIDE GUIDANCE IN USING INDOMETHACIN EXTENDED-RELEASE CAPSULES, 75 MG

Indomethacin extended-release capsules, 75 mg once a day can be substituted for indomethacin immediate-release capsules, 25 mg three times a day. However, there will be significant differences between the two dosage regimens in indomethacin blood levels, especially after 12 hours [see Clinical Pharmacology (12)]. In addition, indomethacin extended-release capsules, 75 mg twice a day can be substituted for indomethacin immediate-release capsules, USP 50 mg three times a day.

Indomethacin extended-release capsules may be substituted for all the indications for indomethacin immediate-release capsules, USP except acute gouty arthritis. Dosage Recommendations for Active Stages of the Following:

2.2 Moderate to severe rheumatoid arthritis including acute flares of chronic disease; moderate to severe ankylosing spondylitis; and moderate to severe

Indomethacin immediate-release capsules, 25 mg twice a day or three times a day. If this is well tolerated, increase the daily dosage by 25 mg or by 50 mg, if required by continuing symptoms, at weekly intervals until a satisfactory response is obtained or until a total daily dose of 150 to 200 mg is reached. Doses above this amount generally do not increase the effectiveness of the drug.

In patients who have persistent night pain and/or morning stiffness, the giving of a large portion, up to a maximum of 100 mg, of the total daily dose at bedtime may be helpful in affording relief. The total daily dose should not exceed 200 mg. In acute flares of chronic rheumatoid arthritis, it may be necessary to increase the dosage by 25 mg or, if required, If minor adverse effects develop as the dosage is increased, 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 patient are essential to the prevention of serious, irreversible, including fatal, adverse reactions.

Heart Failure and Edema: Avoid use of indomethacin extended-release capsules in patients with severe heart failure unless benefits are expected to outweigh risk of worsening heart failure (5.5)

Renal Toxicity: Monitor renal function in patients with renal or hepatic impairment heart failure, dehydration, or hypovolemia. Avoid use of indomethacin extendedrelease cansules in patients with advanced renal disease unless benefits are expected to outweigh risk of worsening renal function (5.6)

Anaphylactic Reactions: Seek emergency help if an anaphylactic reaction occurs Exacerbation of Asthma Related to Aspirin Sensitivity: Indomethacin extended

release capsules are contraindicated in patients with aspirin-sensitive asthma. Monitor patients with preexisting asthma (without aspirin sensitivity) (5.8) <u>Serious Skin Reactions</u>: Discontinue indomethacin extended-release capsules at first appearance of skin rash or other signs of hypersensitivity (5.9)

Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS); Discontinue and evaluate clinically (5.10). Fetal Toxicity: Limit use of NSAIDs, including indomethacin extended-release

capsules, between about 20 to 30 weeks in pregnancy due to the risk of oligohydramnios/fetal renal dysfunction. Avoid use of NSAIDs in women at about 30 weeks gestation and later in pregnancy due to the risks of oligohydramnios/fetal renal dysfunction and premature closure of the fetal ductus arteriosus (5.11, 8.1). Hematologic Toxicity: Monitor hemoglobin or hematocrit in patients with any signs or symptoms of anemia (5.12, 7)

-----ADVERSE REACTIONS---Most common adverse reactions (incidence ≥ 3%) are headache, dizziness, dyspepsia

To report SUSPECTED ADVERSE REACTIONS, contact Hetero Labs Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch --- DRUG INTERACTIONS-

<u>Drugs that Interfere with Hemostasis (e.g. warfarin, aspirin, SSRIs/SNRIs)</u>: Monitor patients for bleeding who are concomitantly taking indomethacin extended-release capsules with drugs that interfere with hemostasis. Concomitant use of indomethacin extended-release capsules and analgesic doses of aspirin is no enerally recommended (7) ACE Inhibitors, Angiotensin Receptor Blockers (ARB), or Beta-Blockers:

Concomitant use with indomethacin extended-release capsules may diminish the ntihypertensive effect of these drugs. Monitor blood pressure (7) ACE Inhibitors and ARBs: Concomitant use with indomethacin extended-release

capsules in elderly, volume depleted, or those with renal impairment may result in deterioration of renal function. In such high risk patients, monitor for signs of worsening renal function (7) Diuretics: NSAIDs can reduce natriuretic effect of furosemide and thiazide diuretics. Monitor patients to assure diuretic efficacy including antihypertensive effects (7)

<u>Digoxin:</u> Concomitant use with indomethacin extended-release capsules can

ncrease serum concentration and prolong half-life of digoxin. Monitor serum digoxin levels (7) -- USE IN SPECIFIC POPULATIONS--Infertility: NSAIDs are associated with reversible infertility. Consider withdrawal of hacin extended-release capsules in women who have difficulties conceiving (8.3)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

## 6 ADVERSE REACTIONS

6.1 Clinical Trials Experience 6.2 Postmarketing Experience

DRUG INTERACTIONS **USE IN SPECIFIC POPULATIONS** 

Pregnancy Lactation

Females and Males of Reproductive Potential 8.4 Pediatric Use

8.5 Geriatric Use 10 OVERDOSAGE

11 DESCRIPTION 12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

3.1 Carcinogenesis, Mutagenesis, Impairment of Fertility 14 CLINICAL STUDIES

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION \* Sections or subsections omitted from the full prescribing information are not listed

extended-release capsules should be used with greater care in the elderly [see Use in

2.3 Acute painful shoulder (bursitis and/or tendinitis) Indomethacin immediate-release capsules 75 to 150 mg daily in 3 or 4 divided doses. Discontinue indomethacin extended-release capsules treatment after the signs and symptoms of inflammation have been controlled for several days. The usual course of

therapy is 7 to 14 days. 3 DOSAGE FORMS AND STRENGTHS

Indomethacin extended-release capsules USP, 75 mg are size  $^{\circ}2^{\circ}$ , dark yellow cap and clear transparent body hard gelatin capsules, containing cream spherical pellets imprinted with 'H' on cap and '105' on body.

4 CONTRAINDICATIONS

Specific Populations (8.5)].

Indomethacin extended-release capsules are contraindicated in the following patients: Known hypersensitivity (e.g., anaphylactic reactions and serious skin reactions) to indomethacin or any components of the drug product [see Warnings and Precautions (5.7, 5.9)]

History of asthma, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs. Severe, sometimes fatal, anaphylactic reactions to NSAIDs have been reported in such patients [see Warnings and Precautions (5.7, 5.8)] In the setting of coronary artery bypass graft (CABG) surgery [see Warnings and Precautions (5.1)]

WARNINGS AND PRECAUTIONS 5.1 Cardiovascular Thrombotic Events

Clinical trials of several COX-2 selective and nonselective NSAIDs of up to three years duration have shown an increased risk of serious cardiovascular (CV) thrombotic events, including myocardial infarction (MI) and stroke, which can be fatal. Based on available data, it is unclear that the risk for CV thrombotic events is similar for all NSAIDs. The relative increase in serious CV thrombotic events over baseline conferred by NSAID use appears to be similar in those with and without known CV disease or risk factors for CV disease. However, patients with known CV disease or risk factors had a higher absolute incidence of excess serious CV thrombotic events, due to their increased baseline rate. Some observational studies found that this increased risk of serious CV thrombotic events began as early as the first weeks of treatment. The increase in CV thrombotic risk has been observed most consistently at higher doses.

To minimize the potential risk for an adverse CV event in NSAID-treated patients, use the lowest effective dose for the shortest duration possible. Physicians and patients should remain alert for the development of such events, throughout the entire treatment course, even in the absence of previous CV symptoms. Patients should be informed about the symptoms of serious CV events and the steps to take if they occur.

There is no consistent evidence that concurrent use of aspirin mitigates the increased risk of serious CV thrombotic events associated with NSAID use. The concurrent use of aspirin and an NSAID, such as indomethacin, increases the risk of serious gastrointestinal (GI) events [see Warnings and Precautions (5.2)].

Status Post Coronary Artery Bypass Graft (CABG) Surgery Two large, controlled clinical trials of a COX-2 selective NSAID for the treatment of pain in the first 10 to 14 days following CABG surgery found an increased incidence of myocardial infarction and stroke. NSAIDs are contraindicated in the setting of CABG [see Contraindications (4)].

Post-MI Patients

Observational studies conducted in the Danish National Registry have demonstrated that patients treated with NSAIDs in the post-MI period were at increased risk of reinfarction, CV-related death, and all-cause mortality beginning in the first week of treatment. In this same cohort, the incidence of death in the first year post-MI was 20 per 100 person years in NSAID-treated patients compared to 12 per 100 person years in non-NSAID exposed patients. Although the absolute rate of death declined somewhat after the first year post-MI, the increased relative risk of death in NSAID users persisted over at least the next four years of follow-up.

Avoid the use of indomethacin extended-release capsules in patients with a recent MI unless the benefits are expected to outweigh the risk of recurrent CV thrombotic events If indomethacin extended-release capsules are used in patients with a recent MI, monitor patients for signs of cardiac ischemia.

5.2 Gastrointestinal Bleeding, Ulceration, and Perforation NSAIDs, including indomethacin, cause serious gastrointestinal (GI) adverse events

including inflammation, bleeding, ulceration, and perforation of the esophagus, stomach, small intestine, or large intestine, which can be fatal. These serious adverse events can occur at any time, with or without warning symptoms, in patients treated with NSAIDs. Only one in five patients who develop a serious upper GI adverse event on NSAID therapy is symptomatic. Upper GI ulcers, gross bleeding, or perforation caused by NSAIDs

disease

poor health advanced liver

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of NSAIDs

increasing NSAIDs longer use o smoking

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of

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for your treatment

NSAIDs should only be used:

exactly as prescribed

at the lowest dose possible for

to for the shortest time needed

occurred in approximately 1% of patients treated for 3 to 6 months, and in about 2% to 4% of patients treated for one year. However, even short-term NSAID therapy is not

Risk Factors for GI Bleeding, Ulceration, and Perforation Patients with a prior history of peptic ulcer disease and/or GI bleeding who used NSAIDs had a greater than 10-fold increased risk for developing a GI bleed compared to patients without these risk factors. Other factors that increase the risk of GI bleeding in patients treated with NSAIDs include longer duration of NSAID therapy; concomitant use of oral corticosteroids, aspirin, anticoagulants, or selective serotonin reuptake inhibitors (SSRIs); smoking; use of alcohol; older age; and poor general health status. Most postmarketing

reports of fatal GI events occurred in elderly or debilitated patients. Additionally, patients

with advanced liver disease and/or coagulopathy are at increased risk for GI bleeding. Strategies to Minimize the GI Risks in NSAID-treated patients:

Use the lowest effective dosage for the shortest possible duration. Avoid administration of more than one NSAID at a time. Avoid use in patients at higher risk unless benefits are expected to outweigh

the increased risk of bleeding. For such patients, as well as those with active GI bleeding, consider alternate therapies other than NSAIDs. Remain alert for signs and symptoms of GI ulceration and bleeding during NSAID

If a serious GI adverse event is suspected, promptly initiate evaluation and reatment, and discontinue indomethacin extended-release capsules until a serious GL adverse event is ruled out

n the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, monitor patients more closely for evidence of GI bleeding [see Drug Interactions (7)].

5.3 Henatotoxicity Elevations of ALT or AST (three or more times the upper limit of normal [ULN]) have been reported in approximately 1% of NSAID-treated patients in clinical trials. In addition, rare, sometimes fatal, cases of severe hepatic injury, including fulminant hepatitis, liver necrosis, and hepatic failure have been reported.

Elevations of ALT or AST (less than three times ULN) may occur in up to 15% of patients treated with NSAIDs including indomethacin. Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, diarrhea, pruritus, jaundice, right upper quadrant tenderness, and "flulike" symptoms). If clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), discontinue indomethacin

extended-release capsules immediately, and perform a clinical evaluation of the patient. 5.4 Hypertension NSAIDs including indomethacin extended-release cansules can lead to new onset of hypertension or worsening of preexisting hypertension, either of which may contribute to the increased incidence of CV events. Patients taking angiotensin converting enzyme (ACE) inhibitors, thiazide diuretics, or loop diuretics may have impaired response to these

therapies when taking NSAIDs [see Drug Interactions (7)]. Monitor blood pressure (BP) during the initiation of NSAID treatment and throughout

5.5 Heart Failure and Edema

The Coxib and traditional NSAID Trialists' Collaboration meta-analysis of randomized controlled trials demonstrated an approximately two-fold increase in hospitalizations for heart failure in COX-2 selective-treated patients and nonselective NSAID-treated patients compared to placebo-treated patients. In a Danish National Registry study of patients with heart failure, NSAID use increased the risk of MI, hospitalization for heart failure,

Additionally, fluid retention and edema have been observed in some patients treated with NSAIDs. Use of indomethacin may blunt the CV effects of several therapeutic agents used to treat these medical conditions (e.g., diuretics, ACE inhibitors, or angiotensin receptor blockers [ARBs]) [see Drug Interactions (7)].

Avoid the use of indomethacin extended-release capsules in patients with severe heart radiure unless the benefits are expected to outweigh the risk of worsening heart failure. If indomethacin extended-release capsules are used in patients with severe heart failure, monitor patients for signs of worsening heart failure.

5.6 Renal Toxicity and Hyperkalemia

Renal Toxicity Long-term administration of NSAIDs has resulted in renal papillary necrosis and other

Renal toxicity has also been seen in patients in whom renal prostaglandins have a compensatory role in the maintenance of renal perfusion. In these patients, administration of an NSAID may cause a dose-dependent reduction in prostaglandin formation and, secondarily, in renal blood flow, which may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with impaired renal function, dehydration, hypovolemia, heart failure, liver dysfunction, those taking diuretics. and ACE inhibitors or ARBs, and the elderly. Discontinuation of NSAID therapy is usually

followed by recovery to the pretreatment state. No information is available from controlled clinical studies regarding the use of indomethacin extended-release capsules in patients with advanced renal disease. The renal effects of indomethacin extended-release capsules may hasten the progression of

renal dysfunction in patients with preexisting renal disease. Correct volume status in dehydrated or hypovolemic natients prior to initiating indomethacin extended-release capsules. Monitor renal function in patients with renal o hepatic impairment, heart failure, dehydration, or hypovolemia during use of indomethacin extended-release capsules [see Drug Interactions (7)]. Avoid the use of indomethacin extended-release capsules in patients with advanced renal disease unless the benefits are expected to outweigh the risk of worsening renal function. If indomethacin extendedrelease capsules are used in patients with advanced renal disease, monitor patients for

signs of worsening renal function. It has been reported that the addition of the potassium-sparing diuretic, triamterene, to a enance schedule of indomethacin resulted in reversible acute renal failure in two of four healthy volunteers. Indomethacin and triamterene should not be administered togethe

Increases in serum potassium concentration, including hyperkalemia, have been reported with use of NSAIDs, even in some patients without renal impairment. In patients with normal renal function, these effects have been attributed to a hyporeninemic-

serum potassium levels. The potential effects of indomethacin and potassium-sparing diuretics on potassium levels and renal function should be considered when these agents are administered concurrently.

Indomethacin has been associated with anaphylactic reactions in patients with and without known hypersensitivity to indomethacin and in patients with aspirin-sensitive asthma [see Contraindications (4) and Warnings and Precautions (5.8)]. Seek emergency help if an anaphylactic reaction occurs.

5.8 Exacerbation of Asthma Related to Aspirin Sensitivity A subpopulation of patients with asthma may have aspirin-sensitive asthma which may include chronic rhinosinusitis complicated by nasal polyps; severe, potentially fatal bronchospasm; and/or intolerance to aspirin and other NSAIDs. Because cross-reactivity between aspirin and other NSAIDs has been reported in such aspirin-sensitive patients, indomethacin extended-release capsules are contraindicated in patients with this form of aspirin sensitivity [see Contraindications (4)]. When indomethacin extended-release capsules are used in patients with preexisting asthma (without known aspirin sensitivity), monitor patients for changes in the signs and symptoms of asthma.

5.9 Serious Skin Reactions

5.7 Anaphylactic Reactions

NSAIDs, including indomethacin, can cause serious skin adverse reactions such as exfoliative dermatitis, Stevens-Johnson Syndrome (SJS), and toxic epidermal necrol (TEN), which can be fatal. NSAIDs can also cause fixed drug eruption (FDE). FDE may present as a more severe variant known as generalized bullous fixed drug eruption (GBFDE), which can be life-threatening. These serious events may occur without warning. Inform patients about the signs and symptoms of serious skin reactions, and to discontinue the use of indomethacin extended-release capsules at the first appearance of skin rash or any other sign of hypersensitivity. Indomethacin extended-release capsules are contraindicated in patients with previous serious skin reactions to NSAIDs [see Contraindications (4)].

5.10 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)

Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) has been reported in patients taking NSAIDs such as indomethacin extended-release capsules. Some of these events have been fatal or life-threatening. DRESS typically, although not exclusively, presents with fever, rash, lymphadenopathy, and/or facial swelling. Other clinical manifestations may include hepatitis, nephritis, hematological abnormalities, myocarditis. or myositis. Sometimes symptoms of DRESS may resemble an acute viral infection. Eosinophilia is often present. Because this disorder is variable in its presentation, other organ systems not noted here may be involved. It is important to note that early manifestations of hypersensitivity, such as fever or lymphadenopathy, may be present even though rash is not evident. If such signs or symptoms are present, discontinue indomethacin extended-release capsules and evaluate the patient immediately.

5.11 Fetal Toxicity Premature Closure of Fetal Ductus Arteriosus Avoid use of NSAIDs, including indomethacin extended-release capsules, in pregnant

NSAIDs are used to treat pain and redness, swelling, and heat (inflammation) from medical conditions such as different types of arthritis, menstrual cramps, and other types of short-term pain.

What are

take NSAIDs?

ho should not

women at about 30 weeks gestation and later. NSAIDs, including indomethacin extended release capsules, increase the risk of premature closure of the fetal ductus arteriosus at approximately this gestational age. Oligohydramnios/Neonatal Renal Impairment Use of NSAIDs, including indomethacin extended-release capsules, at about 20

weeks gestation or later in pregnancy may cause fetal renal dysfunction leading to oligohydramnios and, in some cases, neonatal renal impairment. These adverse outcomes are seen, on average, after days to weeks of treatment, although oligohydramnios has been infrequently reported as soon as 48 hours after NSAID initiation. Oligohydramnios is often, but not always, reversible with treatment discontinuation Complications of prolonged oligohydramnios may, for example, include limb contractures

function, invasive procedures such as exchange transfusion or dialysis were required. If NSAID treatment is necessary between about 20 weeks and 30 weeks gestation, limit indomethacin extended-release capsules use to the lowest effective dose and shortest duration possible. Consider ultrasound monitoring of amniotic fluid if indomethacin extended-release capsules treatment extends beyond 48 hours. Discontinue indomethacin extended-release capsules of oligohydramnios occurs and follow up according to clinical practice [see Use in Specific Populations (8.1)].

d an asthma attack, hives, or other n with aspirin or any other NSAIDs. after heart bypass surgery.

t take NSAIDs:
if you have had an allergic reaction wright before or aft

not •

and delayed lung maturation. In some postmarketing cases of impaired neonatal renal

5.12 Hematologic Toxicity

Anemia has occurred in NSAID-treated patients. This may be due to occult or gross blood loss, fluid retention, or an incompletely described effect on erythropoiesis. If a patient treated with indomethacin extended-release capsules has any signs or symptoms of anemia, monitor hemoglobin or hematocrit.

NSAIDs, including indomethacin extended-release capsules, may increase the risk of bleeding events. Co-morbid conditions, such as coagulation disorders, or concomitant use of warfarin, other anticoagulants, antiplatelet agents (e.g., aspirin), serotonin reuptake inhibitors (SSRIs), and serotonin norepinephrine reuptake inhibitors (SSRIs) and serotonin norepinephrine reuptake inhibitors (SNRIs) may increase this risk. Monitor these patients for signs of bleeding [see Drug Interactions (7)].

5.13 Masking of Inflammation and Fever The pharmacological activity of indomethacin extended-release capsules in reducing inflammation, and possibly fever, may diminish the utility of diagnostic signs in detecting

infections. 5.14 Laboratory Monitoring

Because serious GI bleeding, hepatotoxicity, and renal injury can occur without warning symptoms or signs, consider monitoring patients on long-term NSAID treatment with a CBC and a chemistry profile periodically [see Warnings and Precautions (5.2, 5.3, 5.6)]. 5.15 Central Nervous System Effects

Indomethacin extended-release capsules may aggravate depression or other psychiatric disturbances, epilepsy, and parkinsonism, and should be used with considerable caution in patients with these conditions. Discontinue indomethacin extended-release capsules if severe CNS adverse reactions develop.

Indomethacin extended-release capsules may cause drowsiness; therefore, caution patients about engaging in activities requiring mental alertness and motor coordination, such as driving a car. Indomethacin may also cause headache. Headache which persists despite dosage reduction requires cessation of therapy with indomethacin extendedrelease capsules.

5.16 Ocular Effects Corneal deposits and retinal disturbances, including those of the macula, have been observed in some patients who had received prolonged therapy with indomethacin extended-release capsules. Be alert to the possible association between the changes noted and indomethacin extended-release capsules. 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 receiving

prolonged therapy. Indomethacin extended-release capsules are not indicated for long

ADVERSE REACTIONS

The following adverse reactions are discussed in greater detail in other sections of the labeling:

Cardiovascular Thrombotic Events [see Warnings and Precautions of the labeling. Cardiovascular Thrombotic Events [see Warnings and Precautions (5.1)]
GI Bleeding, Ulceration and Perforation [see Warnings and Precautions (5.2)]
Hepatotoxicity [see Warnings and Precautions (5.4)]
Hypertension [see Warnings and Precautions (5.4)]
Hepatotoxicular and Felman [see Warnings and Precautions (5.4)]

Heart Failure and Edema [see Warnings and Precautions (5.5)]
Renal Toxicity and Hyperkalemia [see Warnings and Precautions (5.6)]

Anaphylactic Reactions [see Warnings and Precautions (5.7)]
Serious Skin Reactions [see Warnings and Precautions (5.9)]
Hematologic Toxicity [see Warnings and Precautions (5.12)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice. In a gastroscopic study in 45 healthy subjects, the number of gastric mucosal malities was significantly higher in the group receiving indomethacin immediate release capsules than in the group taking indomethacin suppositories or placebo. In a double-blind comparative clinical study involving 175 patients with rheumatoid arthritis, however, the incidence of upper gastrointestinal adverse effects with

indomethacin immediate-release capsules or suppositories was comparable. The incidence of lower gastrointestinal adverse effects was greater in the suppository group The adverse reactions for indomethacin immediate-release cansules listed in the following table have been arranged into two groups: (1) incidence greater than 1%; and (2) incidence less than 1%. The incidence for group (1) was obtained from 33 doubleblind controlled clinical trials reported in the literature (1,092 patients). The incidence for group (2) was based on reports in clinical trials, in the literature, and on voluntary reports rketing. The probability of a causal relationship exists between indomethacin capsules and these adverse reactions, some of which have been reported only rarely. The adverse reactions reported with indomethacin immediate-release capsules may

Incidence greater than 1%	Incidence less than 1%	
GASTROINTESTIN	<u> </u> 	
nausea* with or without vomiting dyspepsia* (including indigestion, heartburn and epigastric pain) diarrhea abdominal distress or pain constipation	anorexia bloating (includes distension) 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	gastrointestinal bleeding without obvious ulcer formation and perforation o preexisting sigmoid lesions (diverticulum, carcinoma, etc.) development of ulcerative colitis and region lielitis ulcerative stomatitis toxic hepatitis and jaundice (some fatal cases have beer reported) intestinal strictures (diaphragms) pancreatitis
CENTRAL NERVOL		P
headache (11.7%) dizziness* vertigo somnolence depression and fatigue (including malaise and listlessness)	anxiety (includes nervousness) muscle weakness involuntary muscle movements insomnia muzziness psychic disturbances including psychotic episodes mental confusion drowsiness	light-headedness syncope paresthesia aggravation of epilepsy and parkinsonism depersonalization coma peripheral neuropathy convulsion dysarthria
SPECIAL SENSES		
tinnitus	ocular — corneal deposits and retinal disturbances, including those of the macula, have been reported in some patients on prolonged therapy with indomethacin capsules	blurred vision diplopia hearing disturbances, deafness
CARDIOVASCULA	?	,
None	hypertension hypotension tachycardia chest pain	congestive heart failure arrhythmia; palpitations
METABOLIC	<u> </u>	1
None	edema weight gain fluid retention flushing or sweating	hyperglycemia glycosuria hyperkalemia
INTEGUMENTARY		
none	pruritus rash; urticaria petechiae or ecchymosis	exfoliative dermatitis erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis
HEMATOLOGIC		
None	leukopenia bone marrow depression anemia secondary to obvious or occult gastrointestinal bleeding	aplastic anemia hemolytic anemia agranulocytosis thrombocytopenic purpura disseminated intravascular coagulation
HYPERSENSITIVIT	γ	•
None	acute anaphylaxis acute respiratory distress rapid fall in blood pressure resembling a shock-like state angioedema	dyspnea asthma purpura angiitis pulmonary edema fever
GENITOURINARY		
None	hematuria vaginal bleeding proteinuria nephrotic syndrome interstitial nephritis	BUN elevation renal insufficiency, including renal failure
MISCELLANEOUS		
None	epistaxis breast changes, including enlargement and tenderness, or gynecomastia	

\*Reactions occurring in 3% to 9% of patients treated with indomethacin cansules.

information I should Nonsteroidal Anti-

the most important ii medicines called | Drugs (NSAIDs)?"

What are the ponsel NSAIDs can cau See "What is the know about rinflammatory D

Before taking NSAIDs, tell your healthcare provider about all of your medical conditions, including if you:

have liver or kidney problems
have high blood pressure
have asthma
are pregnant or plan to become pregnant. Taking NSAIDs at about 20 weeks of pregnancy or later may harm your unborn baby. If you need to take NSAIDs for more than 2 days when you are between 20 and 30 weeks of pregnancy, your healthcare provider may need to monitor the amount of fluid in your womb around your baby. You should not take NSAIDs after about 30 weeks of pregnancy.

Tell your healthcare provider about all of the medicines you take, including prescription or over-the-counter medicines, vitamins or herbal supplements. NSAIDs and some other medicines can interact with each other and cause serious side effects. Do not start taking any new medicine without talking to your healthcare provider first.

State A	can lead to death. This risk may happen early in treatment and may increase:  o with increasing doses of NSAIDs o with longer use of NSAIDs  Do not take NSAIDs right before or after a heart surgery called a "coronary artery bypass graft (CABG)."  Avoid taking NSAIDs after a recent heart attack, unless your healthcare provider tells you to. You may have an increased risk of another heart attack if you take NSAIDs after a recent heart attack if you take NSAIDs after a recent heart attack.  Increased risk of bleeding, ulcers, and tears (perforation) of the esophagus (tube leading from the mouth to the stomach), stomach and intestines: o anytime during use o without warning symptoms o that may cause death  The risk of getting an ulcer or bleeding increases with: o past history of stomach ulcers, or stomach or intestinal bleeding with use of NSAIDs o taking medicines called "corticosteroids",	"anticoagulants", "SSRIs", or "SNRIs"
Dimensions	320 x 560 mm (Book Fold: 40 x 40 mm)	I∎'
Customer/Country	Camber / USA	



Bible Paper 40 GSM Black **Pantone Colours** Version No.

Note: Pharma Code, Material Code, Product Name and 2D Data Matrix Orientation will be change based on Machine folding feasibility at vendor.



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 Genitourinary: Urinary frequency

A rare occurrence of fulminant necrotizing fasciitis, particularly in association with Group Aβ hemolytic streptococcus, has been described in persons treated with nonsteroid anti-inflammatory agents, including indomethacin, sometimes with fatal outcome.

6.2 Postmarketing Experience following adverse reactions have been identified during postapproval use indomethacin. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Skin and Appendages: Exfoliative dermatitis, Stevens-Johnson Syndrome (SJS), toxic rmal necrolysis (TEN), and fixed drug eruption (FDE).

### DRUG INTERACTIONS

### See Table 2 for clinically significant drug interactions with indomethacin. Table 2 Clinically Significant Drug Interactions with Indomethacin

Drugs That Interfere with Hemostasis	
Clinical Impact:	Indomethacin and anticoagulants such as warfarin have a synergistic effect on bleeding. The concomitant use of indomethacin and anticoagulants have an increased risk of serious bleeding compared to the use of either drug alone.
	Serotonin release by platelets plays an important role in hemostasis. Case-control and cohort epidemiological.

studies showed that concomitant use of drugs that interfere

with serotonin reuptake and an NSAID may potentiate the risk of bleeding more than an NSAID alone. Monitor patients with concomitant use of indomethacin extended Intervention: release capsules with anticoagulants (e.g., warfarin), antiplatelet agents (e.g., aspirin), selective serotonin reuptake inhibitors (SSRIs), and serotonin norepinephrine reuptake inhibitors (SNRIs) for signs of bleeding [see Warnings and Precautions

## Aspirin Clinical Impact: Controlled clinical studies showed that the concomitant use of

NSAIDs and analgesic doses of aspirin does not produce any greater therapeutic effect than the use of NSAIDs alone. In a clinical study, the concomitant use of an NSAID and aspirin was associated with a significantly increased incidence of GI adverse reactions as compared to use of the NSAID alone [see Warnings and Precautions (5.2)]. Intervention: Concomitant use of indomethacin extended-release capsules and nalgesic doses of aspirin is not generally recommer

of the increased risk of bleeding [see Warnings and Precautions Indomethacin extended-release capsules are not a substitute fo low dose aspirin for cardiovascular protection.

### ${\bf ACE\,Inhibitors,\,Angiotensin\,Receptor\,Blockers,\,and\,Beta-Blockers}$ Clinical Impact: • NSAIDs may diminish the antihypertensive effect of converting enzyme (ACE) inhibitors, angiote receptor blockers (ARBs), or beta-blockers (including propranolol).

Intervention:

In patients who are elderly, volume-depleted (including those on diuretic therapy), or have renal impairment, coadministration of an NSAID with ACE inhibitors or ARBs may result in deterioration of renal function, including possible acute renal failure. These effects are usually reversible.

### During concomitant use of indomethacin extended-release capsules and ACE-inhibitors, ARBs, or beta-blockers, monitor blood pressure to ensure that the desired blood pressure is obtained. During concomitant use of indomethacin extended-release

capsules and ACE-inhibitors or ARBs in patients who are elderly, volume-depleted, or have impaired renal function, monitor for signs of worsening renal function [see Warnings and Precautions (5.6)]. When these drugs are administered concomitantly, patients should be adequately hydrated. Assess renal function a the beginning of the concomitant treatment and periodically

	therealter.	
Diuretics	uretics	
Clinical Impact:	Clinical studies, as well as post-marketing observations, showed that NSAIDs reduced the natriuretic effect of loop diuretics (e.g., furosemide) and thiazide diuretics in some patients. This effect has been attributed to the NSAID inhibition of renal prostaglardin	

synthesis. It has been reported that the addition of triamterene to a maintenance schedule of indomethacin extended-release capsules resulted in reversible acute renal failure in two of four healthy volunteers. Indomethacin extended-release capsules and

triamterene should not be administered together. Both indomethacin extended-release cansules and notassium sparing diuretics may be associated with increased serum potassium levels. The potential effects of indomethacin extendedrelease capsules and potassium-sparing diuretics on potassium levels and renal function should be considered when these agents are administered concurrently.

#### Intervention: Indomethacin and triamterene should not be administered During concomitant use of indomethacin extended-releas cansules with digretics, observe nationts for signs of worsening renal function, in addition to assuring diuretic efficacy including

antihypertensive effects. Be aware that indomethacin and potassium-sparing diuretics may both be associated with increased serum potassium levels [see Warnings and Precautions (5.6)].

Digoxin	igoxin	
Clinical Impact:	The concomitant use of indomethacin with digoxin has been reported to increase the serum concentration and prolong the half-life of digoxin.	
Intervention:	During concomitant use of indomethacin extended-release	

	capsules and digoxin, monitor serum digoxin levels.
Lithium	
Clinical Impact:	NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium clearance. The mean minimum lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This effect has been attributed to NSAID

inhibition of renal prostaglandin synthesis During concomitant use of indomethacin extended-release Intervention: apsules and lithium, monitor patients for signs of lithium toxicity Methotrexate Clinical Impact: Concomitant use of NSAIDs and methotrexate may increase the risk for methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfunction).

During concomitant use of indomethacin extended-release ntervention capsules and methotrexate, monitor patients for methotrexate Cyclosporine Clinical Impact: Concomitant use of indomethacin extended-release capsules and cyclosporine may increase cyclosporine's nephrotoxicity. Intervention. During concomitant use of indomethacin extended-release

capsules and cyclosporine, monitor patients for signs of worsening renal function.

because diflunisal causes significantly higher plasma levels of indomethacin. [see *Clinical Pharmacology (12.3)*]. In some

patients, combined use of indomethacin and diffunisal has been

**NSAIDs and Salicylates** Concomitant use of indomethacin with other NSAIDs or salicylates (e.g., diflunisal, salsalate) increases the risk of GI toxicity, with little or no increase in efficacy [see Warnings and Precautions (5.2)]. Combined use with diflunisal may be particularly hazardous

associated with fatal gastrointestinal hemorrhage The concomitant use of indomethacin with other NSAIDs of Intervention: alicylates, especially diflunisal, is not recomme

Clinical Impact: | Concomitant use of indomethacin extended-release capsules and pemetrexed may increase the risk of pemetrexed-associated relosuppression, renal, and GI toxicity (see the pemetrexed

During concomitant use of indomethacin extended-release Intervention: capsules and pemetrexed, in patients with renal impairment whose creatinine clearance ranges from 45 to 79 mL/min, monito for myelosuppression, renal and GI toxicity.

> NSAIDs with short elimination half-lives (e.g., diclofenac ndomethacin) should be avoided for a period of two days before the day of, and two days following administration of pemetrexed. In the absence of data regarding potential interaction between pemetrexed and NSAIDs with longer half-lives (e.g., meloxicam, nabumetone), patients taking these NSAIDs should interrupt losing for at least five days before, the day of, and two days following pemetrexed administration.

Clinical Impact: When indomethacin is given to patients receiving probenecid, the plasma levels of indomethacin are likely to be increased. During the concomitant use of indomethacin extended release capsules and probenecid, a lower total daily dosage of indomethacin may produce a satisfactory therapeutic effect. When increases in the dose of indomethacin are made, they

should be made carefully and in small increments. Effects on Laboratory Tests Indomethacin reduces basal plasma renin activity (PRA), as well as those elevations of PRA induced by furosemide administration, or salt or volume depletion. These facts should be considered when evaluating plasma renin activity in hypertensive patients. False-negative results in the dexamethasone suppression test (DST) in patients being

### raise-riegative results in the examinations suppression test (D31) in patients being treated with indomethacin have been reported. Thus, results of the DST should be interpreted with caution in these patients. 8 USE IN SPECIFIC POPULATIONS

#### 8.1 Pregnancy Risk Summary

Use of NSAIDs, including indomethacin extended-release capsules, can cause premature closure of the fetal ductus arteriosus and fetal renal dysfunction leading to oligohydramnios and, in some cases, neonatal renal impairment. Because of these risks, limit dose and duration of indomethacin extended-release capsules use between about 20 and 30 weeks of gestation, and avoid indomethacin extended-release capsules use at about 30 weeks of gestation and later in pregnancy (see Clinical Considerations, Data).

Premature Closure of Fetal Ductus Arteriosus Use of NSAIDs, including indomethacin extended-release capsules, at about 30 weeks gestation or later in pregnancy increases the risk of premature closure of the fetal ductus arteriosus.

Oligohydramnios/Neonatal Renal Impairment Use of NSAIDs at about 20 weeks gestation or later in pregnancy has been associated with cases of fetal renal dysfunction leading to oligohydramnios, and in some cases, neonatal renal impairment

Data from observational studies regarding other potential embryofetal risks of NSAID use in women in the first or second trimesters of pregnancy are inconclusive. In animal reproduction studies retarded fetal ossification was observed with administration of indomethacin to mice and rats during organogenesis at doses 0.1 and 0.2 times respectively, the maximum recommended human dose (MRHD, 200 mg), In published udies in pregnant mice, indomethacin produced maternal toxicity and death, increased fetal resorptions, and fetal malformations at 0.1 times the MRHD. When rat and mice dams were dosed during the last three days of gestation, indomethacin produced neuronal necrosis in the offspring at 0.1 and 0.05 times the MRHD, respectively [see *Data*]. Based on animal data, prostaglandins have been shown to have an important role in endometria vascular permeability, blastocyst implantation, and decidualization. In animal studies administration of prostaglandin synthesis inhibitors such as indomethacin, resulted in increased pre- and post-implantation loss. Prostaglandins also have been shown to have an important role in fetal kidney development. In published animal studies, prostaglanding synthesis inhibitors have been reported to impair kidney development when administered at clinically relevant doses.

The estimated background risk of major birth defects and miscarriage for the indicated population(s) is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk f major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Considerations Fetal/Neonatal Adverse Reactions

Premature Closure of Fetal Ductus Arteriosus:

Avoid use of NSAIDs in women at about 30 weeks gestation and later in pregnancy, because NSAIDs, including indomethacin extended-release capsules, can cause premature closure of the fetal ductus arteriosus (see Data).

Oligohydramnios/Neonatal Renal Impairment

If an NSAID is necessary at about 20 weeks gestation or later in pregnancy, limit the use to the lowest effective dose and shortest duration possible. If indomethacin extended-release capsules treatment extends beyond 48 hours, consider monitoring with ultrasound for oligohydramnios. If oligohydramnios occurs, inue indomethacin extended-release capsules and follow up according to clinical practice (see Data)

## Human Data

Premature Closure of Fetal Ductus Arteriosus:

Published literature reports that the use of NSAIDs at about 30 weeks of gestation and later in pregnancy may cause premature closure of the fetal ductus arteriosus Oligohydramnios/Neonatal Renal Impairment:

Published studies and postmarketing reports describe maternal NSAID use at about 20 weeks gestation or later in pregnancy associated with fetal renal dysfunction leading to oligohydramnios, and in some cases, neonatal renal impairment. These adverse outcomes ongoriyuranındır. andı in sonicasas, neonara hera impanienti. Hera esaverse durere duciones are seen, on average, after days to weeks of treatment, although oligohydramnios has been infrequently reported as soon as 48 hours after NSAID initiation. In many cases, but not all, the decrease in amniotic fluid was transient and reversible with cessation of but not an, the development and the state of the drug. There have been a limited number of case reports of maternal NSAID use and neonatal renal dysfunction without oligohydramnios, some of which were irreversible. Some cases of neonatal renal dysfunction required treatment with invasive procedures such as exchange transfusion or dialysis.

Methodological limitations of these postmarketing studies and reports include lack of a control group; limited information regarding dose, duration, and timing of drug exposure; and concomitant use of other medications. These limitations preclude establishing a reliable estimate of the risk of adverse fetal and neonatal outcomes with maternal NSAID use. Because the published safety data on neonatal outcomes involved mostly preterm nts, the generalizability of certain reported risks to the full-term infant exposed to NSAIDs through maternal use is uncertain. Animal data

Reproductive studies were conducted in mice and rats at dosages of 0.5, 1, 2, and 4 mg/kg/ day. Except for retarded fetal ossification at 4 mg/kg/day (0.1 times [mice] and 0.2 times. [rats] the MRHD on a mg/m<sup>2</sup> basis, respectively) 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, 0.1 to 0.4 times MRHD on a mg/m<sup>2</sup> basis) have described maternal toxicity

and death, increased fetal resorptions, and fetal malformations

In rats and mice, maternal indomethacin administration of 4 mg/kg/day (0.2 times and 0.1 times the MRHD on a  $mg/m^2$  basis) during the last 3 days of gestation was associated with an increased incidence of neuronal necrosis in the diencephalon in the live-born fetuses however no increase in neuronal necrosis was observed at 2 mg/kg/day as compared to the control groups (0.1 times and 0.05 times the MRHD on a mg/m<sup>2</sup> basis) Administration of 0.5 or 4 mg/kg/day to offspring during the first 3 days of life did not cause an increase in neuronal necrosis at either dose level.

There are no studies on the effects of indomethacin extended-release capsules during labor or delivery. In animal studies, NSAIDs, including indomethacin, inhibit prostaglandin synthesis, cause delayed parturition, and increase the incidence of stillbirth.

### 8.2 Lactation Risk Summary

Based on available published clinical data, indomethacin may be present in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for indomethacin extended-release capsules and any potential adverse effects on the breastfed infant from the indomethacin extended-release capsules or from the underlying maternal condition

In one study, levels of indomethacin in breast milk were below the sensitivity of the assay (<20 mcg/L) in 11 of 15 women using doses ranging from 75 mg orally to 300 mg rectally daily (0.94 to 4.29 mg/kg daily) in the postpartum period. Based on these levels, the average concentration present in breast milk was estimated to be 0.27% of the materna weight-adjusted dose. In another study indomethacin levels were measured in breast milk of eight postpartum women using doses of 75 mg daily and the results were used to calculate an estimated infant daily dose. The estimated infant dose of indomethacin from breast milk was less than 30 mcg/day or 4.5 mcg/kg/day assuming breast milk intake of 150 mL/kg/day. This is 0.5% of the maternal weight-adjusted dosage or about 3% of the neonatal dose for treatment of patent ductus arteriosus.

### 8.3 Females and Males of Reproductive Potential Infertility

### Females Based on the mechanism of action, the use of prostaglandin-mediated NSAIDs, including

indomethacin extended-release capsules, may delay or prevent rupture of ovarian follicles which has been associated with reversible infertility in some women. Published anima studies have shown that administration of prostaglandin synthesis inhibitors has the potential to disrupt prostaglandin-mediated follicular rupture required for ovulation. Smal

studies in women treated with NSAIDs have also shown a reversible delay in ovulation. Consider withdrawal of NSAIDs, including indomethacin extended-release capsules, in women who have difficulties conceiving or who are undergoing investigation of infertility.

Safety and effectiveness in pediatric patients 14 years of age and younger has not been established.

Indomethacin extended-release capsules should not be prescribed for pediatric patients 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 pediatric patients reported in the literature or to the manufacturer who were treated with indomethacin immediate-release capsules, side effects in pediatric patients were comparable to those reported in adults. Experience in pediatric patients has been confined to the use of indomethacin immediate-release

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 function 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 1 to 2 mg/kg/day given in divided doses. Maximum daily dosage should not exceed 3 mg/kg/day or 150 to 200 mg/day, whichever is less. Limited data are available to support the use of a maximum daily dosage of 4 mg/kg/day or 150 200 mg/day, whichever is less. As symptoms subside, the total daily dosage sho be reduced to the lowest level required to control symptoms, or the drug should be

#### discontinued. 8.5 Geriatric Use

 ${\bf Elderly\ patients,\ compared\ to\ younger\ patients,\ are\ at\ greater\ risk\ for\ NSAID-associated}$ serious cardiovascular, gastrointestinal, and/or renal adverse reactions. If the anticipated benefit for the elderly patient outweighs these potential risks, start dosing at the low end of the dosing range, and monitor patients for adverse effects [see Warnings and Precautions (5.1, 5.2, 5.3, 5.6, 5.14)].

Indomethacin may cause confusion or rarely, psychosis [see Adverse Reactions (6.1)]; physicians should remain alert to the possibility of such adverse effects in the elderly Indomethacin and its metabolites are known to be substantially excreted by the kidneys, and the risk of adverse reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, use caution in this patient population, and it may be useful to monitor renal function [see Clinical Pharmacology (12.3)]

10 OVERDOSAGE Symptoms following acute NSAID overdosages have been typically limited to lethargy, drowsiness, nausea, vomiting, and epigastric pain, which have been generally reversible with supportive care. Gastrointestinal bleeding has occurred. Hypertension, acute renal ession, and coma have occurred, but were rare [see Warnings and

Precautions (5.1, 5.2, 5.4, 5.6)]. Manage patients with symptomatic and supportive care following an NSAID overdosage There are no specific antidotes. Consider emesis and/or activated charcoal (60 to 100 grams in adults, 1 to 2 grams per kg of body weight in pediatric patients) and/or osmotic cathartic in symptomatic patients seen within four hours of ingestion or in patients with a large overdosage (5 to 10 times the recommended dosage). Forced diuresis, alkalinization

of urine, hemodialysis, or hemoperfusion may not be useful due to high protein binding. For additional information about overdosage treatment contact a poison control center  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($ (1-800-222-1222). 11 DESCRIPTION

Indomethacin extended-release capsules are nonsteroidal anti-inflammatory drugs,

available as capsules containing 75 mg of indomethacin, administered for oral use. The chemical name is 1-(4-chlorobenzoyl)-5-methoxy-2-methyl-1*H*-indole-3-acetic acid. The molecular weight is 357.80. Its molecular formula is C<sub>10</sub>H<sub>16</sub>CINO<sub>4</sub> and it has the following

nethacin, USP 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.

Each extended-release capsule, for oral administration contains 75 mg of indomethacing and the following inactive ingredients: sugar spheres, povidone, mannitol, isopropyl alcohol, talc. The hard gelatin shell consists of gelatin, iron oxide yellow, titanium dioxide

The imprinting ink contains the following: shellac, dehydrated alcohol, isopropyl alcohol, butyl alcohol, propylene glycol, strong ammonia solution, black iron oxide E172 dye and

This product meets USP Drug Release Test 2 Specifications.

### 12 CLINICAL PHARMACOLOGY 12.1 Mechanism of Action

Indomethacin has analgesic, anti-inflammatory, and antipyretic properties. The mechanism of action of indomethacin extended-release capsules, like that of other

Indomethacin is a potent inhibitor of prostaglandin synthesis in vitro. Indomethacin concentrations reached during therapy have produced in vivo effects. Prostaglanding sensitize afferent nerves and potentiate the action of bradykinin in inducing pain in animal models. Prostaglandins are mediators of inflammation. Because indomethacin is an inhibitor of prostaglandin synthesis, its mode of action may be due to a decrease of

NSAIDs, is not completely understood but involves inhibition of cyclooxygenase (COX-1

## 12.3 Pharmacokinetics

Absorption Following single oral doses of indomethacin immediate-release capsules 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 indomethacin immediaterelease capsules are virtually 100% bioavailable, with 90% of the dose absorbed within 4 hours. A single 50 mg dose of indomethacin oral suspension was found to be bioequivalent to a 50 mg indomethacin Capsule when each was administered with food with a typical therapeutic regimen of 25 or 50 mg three times a day, the steady-state plasma concentrations of indomethacin are an average 1.4 times those following the first

Indomethacin extended-release capsules 75 mg are designed to release 25 mg of the drug initially and the remaining 50 mg over approximately 12 hours (90% of dose absorbed by 12 hours). When measured over a 24-hour period, the cumulative amount and timecourse of indomethacin absorption from a single indomethacin extended-release capsule are comparable to those of 3 doses of 25 mg indomethacin immediate-release capsules given at 4 to 6 hour intervals Plasma concentrations of indomethacin fluctuate less and are more sustained following

administration of indomethacin extended-release capsules than following administration of 25 mg indomethacin immediate-release capsules given at 4 to 6 hour intervals. In multiple-dose comparisons, the mean daily steady-state plasma level of indomethacin attained with daily administration of indomethacin extended-release capsules 75 mg was indistinguishable from that following indomethacin immediate-release capsules 25 mg given at 0, 6 and 12 hours daily. However, there was a significant difference in indomethacin plasma levels between the two dosage regimens especially after 12 hours. Distribution

Indomethacin is highly bound to protein in plasma (about 99%) over the expected range of therapeutic plasma concentrations. Indomethacin has been found to cross the blood brain barrier and the placenta, and appears in breast milk.

## Metabolisi

 $Indomethac in \ exists \ in \ the \ plasma \ as \ the \ parent \ drug \ and \ its \ desmethyl, \ desbenzoyl,$ and desmethyldesbenzoyl metabolites, all in the unconjugated form. Appreciable formation of glucuronide conjugates of each metabolite and of indomethacin are formed.

Indomethacin is eliminated via renal excretion, metabolism, and biliary excretion. Indomethacin undergoes appreciable enterohepatic circulation. About 60% of an oral dose is recovered in urine as drug and metabolites (26% as indomethacin and its glucuronide), and 33% is recovered in feces (1.5% as indomethacin). The mean half-life of indomethacin is estimated to be about 4.5 hours.

Specific Populations Pediatric: The pharmacokinetics of indomethacin extended-release capsules has not been investigated in pediatric patients.

Race: Pharmacokinetic differences due to race have not been identified. Hepatic Impairment: The pharmacokinetics of indomethacin extended-release

capsules has not been investigated in patients with hepatic impairment Renal Impairment: The pharmacokinetics of indomethacin extended-release

capsules has not been investigated in patients with renal impairment [see Warnings and Precautions (5-6)].

# **Drug Interaction Studies**

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%

were reduced, although the clearance of free NSAID was not altered. The clinical significance of this interaction is not known. See Table 2 for clinically significant drug interactions of NSAIDs with aspirin [see Drug Interactions (7)]. Diflunisal:

In normal volunteers receiving indomethacin, the administration of diflunisal decreased the renal clearance and significantly increased the plasma levels of indomethacin [see Drug Interactions (7)].

itching

### 13 NONCLINICAL TOXICOLOGY

#### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility Carcinogenesis

In an 81-week chronic oral toxicity study in the rat at doses up to 1 mg/kg/day (0.05 times the MRHD on a mg/m² basis), indomethacin had no tumorigenic effect. Indomethacin produced no neoplastic or hyperplastic changes related to treatment in carcinogenic studies in the rat (dosing period 73 to 110 weeks) and the mouse (dosing period 62 to 88 weeks) at doses up to 1.5 mg/kg/day (0.04 times [mice] and 0.07 times [rats] the MRHD on a mg/m<sup>2</sup> basis, respectively).

#### Mutagenesis Indomethacin did not have any mutagenic effect in in vitro bacterial tests and a series of in vivo tests including the host-mediated assay, sex-linked recessive lethals in Drosophila.

and the micronucleus test in mice. Impairment of Fertility

### Indomethacin at dosage levels up to 0.5 mg/kg/day had no effect on fertility in mice in a two generation reproduction study (0.01 times the MRHD on a $mg/m^2$ basis) or a two litter reproduction study in rats (0.02 times the MRHD on a mg/m<sup>2</sup> basis).

14 CLINICAL STUDIES

Indomethac in has been shown to be an effective anti-inflammatory agent, appropriate for long-term use in rheumatoid arthritis, ankylosing spondylitis, and osteoarthritis.Indomethacin extended-release capsules affords relief of symptoms; it does not alter the

progressive course of the underlying disease. Indomethacin extended-release capsules suppresses inflammation in rheumatoid arthritis as demonstrated by relief of pain, and reduction of fever, swelling and tenderness. Improvement in patients treated with indomethacin 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 extended-release capsules may enable the reduction of steroid dosage in patients receiving steroids for the more severe forms of rheumatoid arthritis. In such instances the steroid dosage should be reduced slowly and the patients followed very closely for any possible adverse effects.

### 16 HOW SUPPLIED/STORAGE AND HANDLING

Indomethacin extended-release capsules USP, 75 mg are size '2', dark yellow cap and

clear transparent body hard gelatin capsules, containing cream spherical pellets imprinted with 'H' on cap and '105' on body. They are supplied as NDC 31722-565-30 Bottles of 30 capsules NDC 31722-565-60 Bottles of 60 capsules Bottles of 100 capsules NDC 31722-565-01 Bottles of 500 capsules NDC 31722-565-05 NDC 31722-565-10 Bottles of 1000 capsules

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect

17 PATIENT COUNSELING INFORMATION Advise the patient to read the FDA-approved patient labeling (Medication Guide) that accompanies each prescription dispensed. Inform patients, families, or their caregivers of the following information before initiating therapy with indomethacin extended-release capsules and periodically during the course of ongoing therapy.

Cardiovascular Thrombotic Events Advise patients to be alert for the symptoms of cardiovascular thrombotic events, including chest pain, shortness of breath, weakness, or slurring of speech, and to report any of these symptoms to their healthcare provider immediately [see Warnings and

Precautions (5.1)].

Gastrointestinal Bleeding, Ulceration, and Perforation Advise patients to report symptoms of ulcerations and bleeding, including epigastric pain, dyspepsia, melena, and hematemesis to their healthcare provider. In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, inform patients of the increased risk for and the signs and symptoms of GI bleeding [see Warnings and Precautions (5.2)].

Hepatotoxicity Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, pruritus, diarrhea, jaundice, right upper quadrant tenderness, and "flu like" symptoms). If these occur, instruct patients to stop indomethacin extended-release capsules and seek immediate medical therapy [see Warnings and Precautions (5.3)].

Heart Failure and Edema Advise patients to be alert for the symptoms of congestive heart failure including shortness of breath, unexplained weight gain, or edema and to contact their healthcare

provider if such symptoms occur [see Warnings and Precautions (5.5)]. Anaphylactic Reactions

Inform patients of the signs of an anaphylactic reaction (e.g., difficulty breathing, swelling of the face or throat). Instruct patients to seek immediate emergency help if these occur [see Contraindications (4) and Warnings and Precautions (5.7)]. Serious Skin Reactions, including DRESS

Advise patients to stop taking indomethacin extended-release capsules immediately if they develop any type of rash or fever and to contact their healthcare provider as soon as possible [see Warnings and Precautions (5.9, 5.10)].

Female Fertility Advise females of reproductive potential who desire pregnancy that NSAIDs, including indomethacin extended-release capsules, may be associated with a reversible delay in ovulation [see Use in Specific Populations (8.3)].

Fetal Toxicity other NSAIDs starting at 30 weeks gestation because of the risk of the premature closing of the fetal ductus arteriosus. If treatment with indomethacin extended-release capsules is needed for a pregnant woman between about 20 to 30 weeks gestation, advise her that she may need to be monitored for oligohydramnios, if treatment continues for longer than

Avoid Concomitant Use of NSAIDs Inform patients that the concomitant use of indomethacin extended-release capsules with other NSAIDs or salicylates (e.g., diffunisal, salsalate) is not recommended due to the increased risk of gastrointestinal toxicity, and little or no increase in efficacy [see Warnings and Precautions (5.2) and Drug Interactions (7)]. Alert patients that NSAIDs may be present in "over-the-counter" medications for treatment of colds, fever, or

48 hours [see Warnings and Precautions (5.11) and Use in Specific Populations (8.1)].

Use of NSAIDs and Low-Dose Aspirin Inform patients not to use low-dose aspirin concomitantly with indomethacin until they talk to their healthcare provider [see Drug Interactions (7)].

CAMBER Manufactured for:

Camber Pharmaceuticals, Inc. Piscataway, NJ 08854

By: HETEROTM Hetero Labs Limited Jeedimetla, Hyderabad - 500 055, India.

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This Food For more information 1-866-495-1995. Revised: 09/2024

By: HETEROTM
Hetero Labs Limited
Jeedimetla, Hyderabad - ( 500 call 055, Hetero

CAMBER

Manufactured for: Camber Pharmaceuticals, I Piscataway, NJ 08854

General information about the safe and effective use of NSAIDs

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use NSAIDs for a condition for which it was not prescribed. Do not give NSAIDs to other people, even if they have the same symptoms that you have. It may harm them.

If you would like more information about NSAIDs, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about NSAIDs that is written for health professionals.

Medication Guide available at <a href="http://camberpharma.com/medication-guides">http://camberpharma.com/medication-guides</a>

Other information about NSAIDs
Aspirin is an NSAID but it does not increase the chance of a heart attack. Aspirin can cause bleeding in the brain, stomach, and intestines. Aspirin can also cause ulcers in the stomach and intestines.
Some NSAIDs are sold in lower doses without a prescription (over-the-counter). Talk to your healthcare provider before using over-the-counter NSAIDs for more than 10 days.

Call your doctor for You may report side r medical a effects to advice and FDA at about side effects 1-800-FDA-1088.

If you take too much of your NSAID, c provider or get medical help right and These are not all the possible side For more information, ask your heap pharmacist about NSAIDs. AID, call your healthcare ight away.
side effects of NSAIDs. r healthcare provider or

symptoms

stomach pain

your skin or look yellow r eyes 으 swelling of the legs, hands and f the

more tired or weaker than usual diarrhea there is blood in your bowel movement or it is black and sticky like tar skin rash with fever unusual weight S. blood 악 gain e arms, feet blisters

Stop taking your NSAID and right away if you get any of nausea call the vomit blood your healthcare provider following symptoms:

weakness or side of

shortness or trouble I chest pain s in one part f your body swelling throat 으 the

face

9

of breath breathing breath slurred speech

away ≕ you get any 으 the

Get emergency help following symptoms: liver problems including liver failure kidney problems including kidney fa low red blood cells (anemia) life-threatening skin reactions life-threatening allergic reactions Other side effects of NSAIDs in pain, constipation, diarrhea, gas, he new or worse I heart failure liver problems pain, constipation, dian vomiting, and dizziness r failure idney failure include: s , heartburn, stomach 1, nausea,

high blood right pressure

Medication Guide has been and Drug Administration.

Pemetrexed

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Labs

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at

, India.