

Unwinding Direction

NDC 68180-398-01

Celecoxib Capsules

400 mg

PHARMACIST: PLEASE DISPENSE WITH MEDICATION GUIDE PROVIDED SEPARATELY

Rx only

LUPIN

100 Capsules

Each capsule contains celecoxib USP 400 mg.
Usual Dosage: See accompanying prescribing information.
Storage: Store at 25°C (77°F); excursions permitted to 15 to 30°C (59 to 86°F) [see USP Controlled Room Temperature].
 Dispense in tight (USP), child resistant containers.

Manufactured for: **Lupin Pharmaceuticals, Inc.** Baltimore, Maryland 21202 United States
 Manufactured by: **Lupin Limited** Goa 403 722 INDIA

Code No. GO/DRUGS/654 241029

Barcode: N368180398011

23 x 70 mm

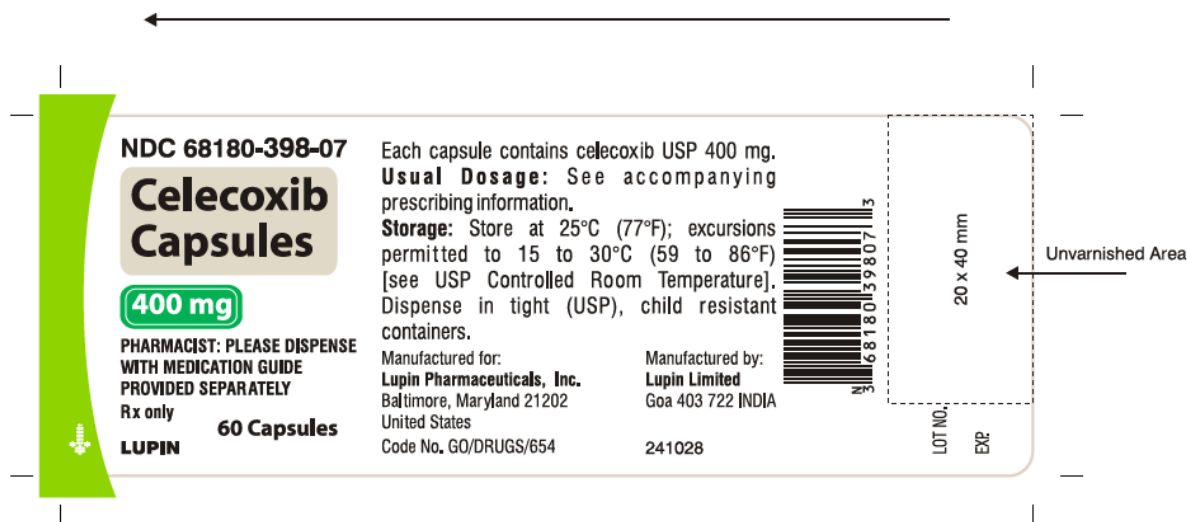
Unvarnished Area

LOT NO. EXP

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 Celecoxib-400mg-100Caps Feb-2015 .cdr
 1st Laser Proof 26/02/2k15

Market/Customer :-	US	Location	Goa
Prepared On	26/02/2k15	Version No	1
Product name	Celecoxib-400mg-100Caps		
Material code	241029	Supercedes Material code	223236
Minimum Font Size	10	Barcode value	N368180398011
Dimensions	180 x 85 (W x H) mm	Barcode Type (Ex. NDC, PZN, EAN-13)	UPC(A)
Substrate	Chromo Art	Pharmacode value	NA
Varnish Type	---	Component	Label
Pantone Colours	PANTONE 354 C PANTONE 7527 C	PANTONE 375 C Black	DIELINE - DOES NOT PRINT AREA FOR BATCH CODING
Reason of Revision: Change in Text Matter			

Unwinding Direction




Artwork Same Size
 Size 135 x 50 mm (W x H)
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 Celecoxib-400mg-60Caps Feb-2015 .cdr
 1st Laser Proof 26/02/2k15

Market/Customer :-	US	Location	Goa
Prepared On	26/02/2k15	Version No	1
Product name	Celecoxib-400mg-60Caps		
Material code	241028	Supersedes Material code	223235
Minimum Font Size	7	Barcode value	N368180398073
Dimensions	135 x 50 (W x H) mm	Barcode Type (Ex. NDC, PZN, EAN-13)	UPC(A)
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Reason of Revision: Change in Text Matter			

Unwinding Direction





NDC 68180-397-03

Celecoxib Capsules

200 mg

PHARMACIST: PLEASE DISPENSE WITH MEDICATION GUIDE PROVIDED SEPARATELY

Rx only

LUPIN

1000 Capsules

32 x 74 mm

LOT NO.
EXP.

Each capsule contains celecoxib USP 200 mg.

Usual Dosage: See accompanying prescribing information.


Storage: Store at 25°C (77°F); excursions permitted to 15 to 30°C (59 to 86°F) [see USP Controlled Room Temperature].

Dispense in tight (USP), child resistant containers.

Manufactured for:
Lupin Pharmaceuticals, Inc.
Baltimore, Maryland 21202
United States

Manufactured by:
Lupin Limited
Goa 403 722 INDIA

Code No. GO/DRUGS/654 241027



N 3 68180 39703 8


← Unvarnished Area

Artwork Same Size
Size : 200 x 90 (L x W)
Comp-1 D:\Jobs\Lupin Ltd\US\Submission\Label\Celecoxib Capsules\
Celecoxib-200mg-1000Caps Feb-2015 .cdr
1st Laser Proof 26/02/2k15

Market/Customer :-	US	Location	Goa	
Prepared On	26/02/2k15	Version No	1	
Product name	Celecoxib-200mg-1000Caps			
Material code	241027	Supersedes Material code	223234	
Minimum Font Size	10	Barcode value	N368180397038	
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Reason of Revision: Change in Text Matter				

Unwinding Direction





NDC 68180-397-02

Celecoxib Capsules

200 mg

PHARMACIST: PLEASE DISPENSE WITH MEDICATION GUIDE PROVIDED SEPARATELY

Rx only

LUPIN

500 Capsules

32 x 74 mm

LOT NO.
EXP.

Each capsule contains celecoxib USP 200 mg.

Usual Dosage: See accompanying prescribing information.


Storage: Store at 25°C (77°F); excursions permitted to 15 to 30°C (59 to 86°F) [see USP Controlled Room Temperature].

Dispense in tight (USP), child resistant containers.

Manufactured for:
Lupin Pharmaceuticals, Inc.
 Baltimore, Maryland 21202
 United States

Manufactured by:
Lupin Limited
 Goa 403 722 INDIA

Code No. GO/DRUGS/654 241026



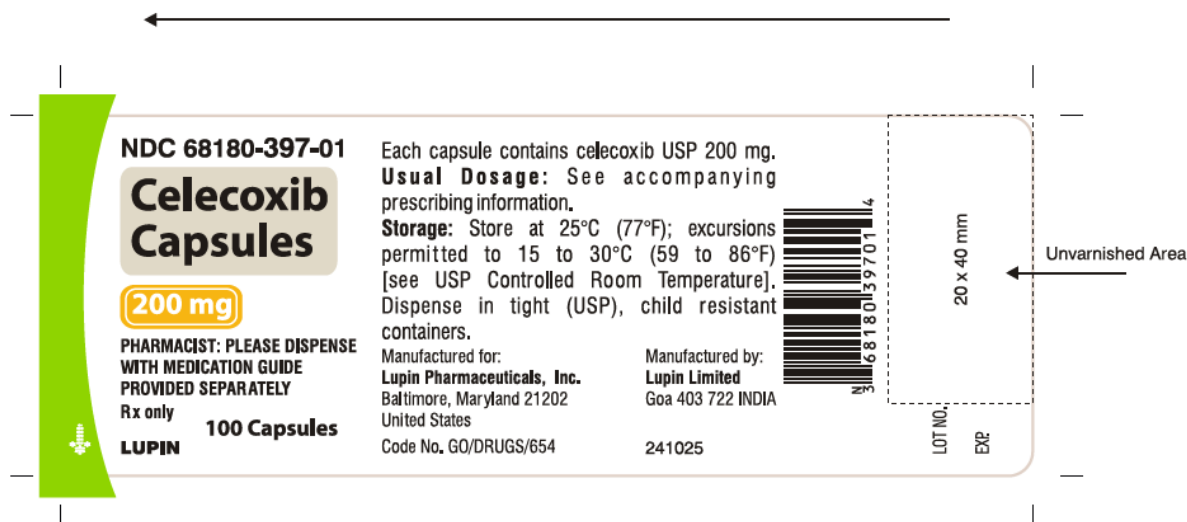
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 1st Laser Proof 26/02/2k15

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Prepared On	26/02/2k15	Version No	1
Product name	Celecoxib-200mg-500Caps		
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Reason of Revision: Change in Text Matter			

Unwinding Direction



Artwork Same Size
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 1st Laser Proof 26/02/2k15

Market/Customer :-	US	Location	Goa
Prepared On	26/02/2k15	Version No	1
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Varnish Type	—	Component	Label
Pantone Colours	 PANTONE 1235 C PANTONE 375 C DIE LINE - DOES NOT PRINT	 Black AREA FOR BATCH CODING	
Reason of Revision: Change in Text Matter			

Unwinding Direction

The diagram shows a rectangular label with a green vertical bar on the left side. A long arrow above the label points to the left, labeled "Unwinding Direction". A dashed box on the right side of the label is labeled "Unvarnished Area". The label contains the following text:

NDC 68180-396-03

Celecoxib Capsules

100 mg

PHARMACIST: PLEASE DISPENSE WITH MEDICATION GUIDE PROVIDED SEPARATELY

Rx only

LUPIN

1000 Capsules

Each capsule contains celecoxib USP 100 mg.
Usual Dosage: See accompanying prescribing information.
Storage: Store at 25°C (77°F); excursions permitted to 15 to 30°C (59 to 86°F) [see USP Controlled Room Temperature].
Dispense in tight (USP), child resistant containers.

Manufactured for: **Lupin Pharmaceuticals, Inc.**
Baltimore, Maryland 21202 United States

Manufactured by: **Lupin Limited**
Goa 403 722 INDIA

Code No. GO/DRUGS/654 241024

Barcode: N 3 68180 39603 1

Dimensions: 32 x 74 mm

Labels: LOT NO., EXP.

Artwork Same Size
Size : 200 x 90 (L x W)
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Celecoxib-100mg-1000Caps Feb-2015 .cdr
1st Laser Proof 26/02/2k15

Market/Customer :-	US	Location	Goa
Prepared On	26/02/2k15	Version No	1
Product name	Celecoxib-100mg-1000Caps		
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Reason of Revision: Change in Text Matter			

Unwinding Direction

NDC 68180-396-02

Celecoxib Capsules

100 mg

PHARMACIST: PLEASE DISPENSE WITH MEDICATION GUIDE PROVIDED SEPARATELY

Rx only

LUPIN

500 Capsules

Each capsule contains celecoxib USP 100 mg.
Usual Dosage: See accompanying prescribing information.
Storage: Store at 25°C (77°F); excursions permitted to 15 to 30°C (59 to 86°F) [see USP Controlled Room Temperature]. Dispense in tight (USP), child resistant containers.

Manufactured for: **Lupin Pharmaceuticals, Inc.**
 Baltimore, Maryland 21202 United States

Manufactured by: **Lupin Limited**
 Goa 403 722 INDIA

Code No. GO/DRUGS/654 241023

Barcode: N368180396024

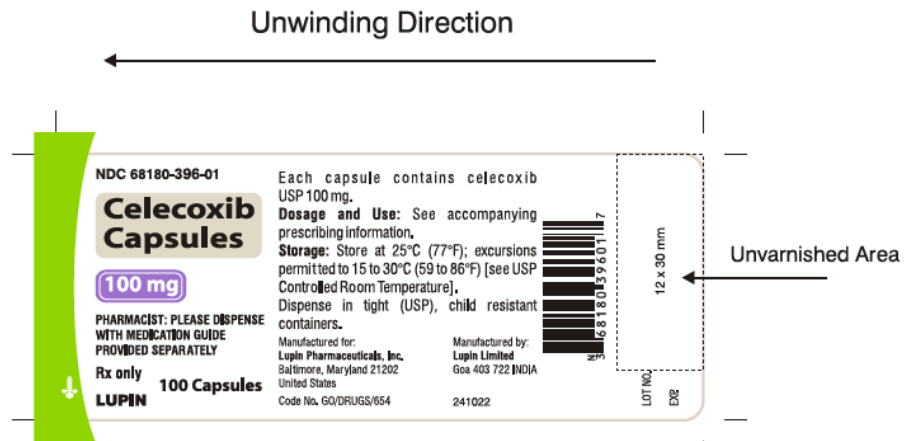
LOT NO. EXP.

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Unvarnished Area

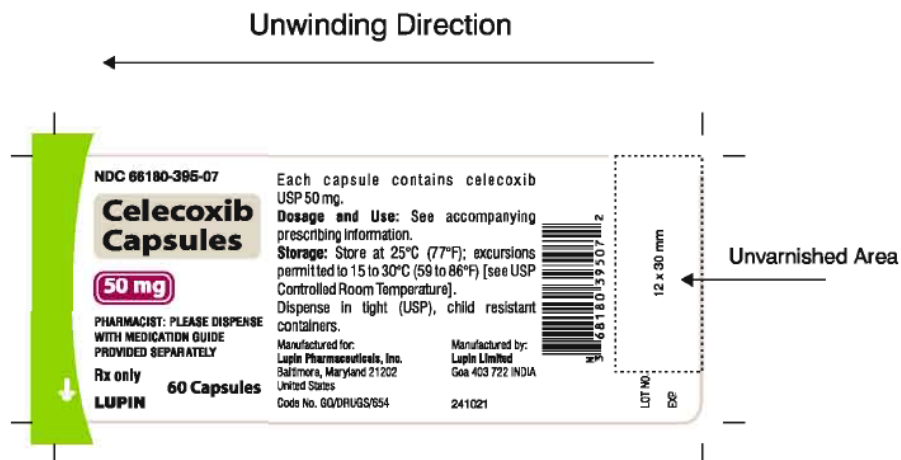
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 Celecoxib-100mg-500Caps Feb-2015 .cdr
 1st Laser Proof 26/02/2k15

Market/Customer :-	US	Location	Goa
Prepared On	26/02/2k15	Version No	1
Product name	Celecoxib-100mg-500Caps		
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Reason of Revision: Change in Text Matter			



Market/Customer ->	US	Location	Goa
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Reason of Revision: Change in Text Matter			

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 1st Laser Proof 26/02/2k15



Market/Customer :-	US	Location	Goa
Prepared On	26/02/2015	Version No	1
Product name	Celecoxib-50mg-60Caps		
Material code	241021	Supersedes Material code	223106
Minimum Font Size	4.5	Barcode value	N368180395072
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Pantone Colours	 PANTONE 220 C	 PANTONE 375 C	 DIELINE - DOES NOT PRINT
	 PANTONE 7527 C	 Black	 AREA FOR BATCH CODING
Reason of Revision: Change in Text Matter			

Artwork Same Size
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 1st Laser Proof 26/02/2015

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use celecoxib capsules safely and effectively. See full prescribing information for celecoxib capsules.

CELECOXIB capsules, for oral use
Initial U.S. Approval: 1998

WARNING: CARDIOVASCULAR AND GASTROINTESTINAL RISKS

See full prescribing information for complete boxed warning

- Cardiovascular Risk**
- Celecoxib capsules may cause an increased risk of serious cardiovascular thrombotic events, myocardial infarction, and stroke, which can be fatal. All NSAIDs may have a similar risk. This risk may increase with duration of use. Patients with cardiovascular disease or risk factors for cardiovascular disease may be at greater risk. (5.1, 14.8)
 - Celecoxib capsules are contraindicated for the treatment of peri-operative pain in the setting of coronary artery bypass graft (CABG) surgery. (4, 5.1)
- Gastrointestinal Risk**
- NSAIDs, including celecoxib capsules, cause an increased risk of serious gastrointestinal 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 are at greater risk for serious gastrointestinal (GI) events. (5.4)

INDICATIONS AND USAGE

Celecoxib is a nonsteroidal anti-inflammatory drug indicated for:

- Osteoarthritis (OA) (1.1)
- Rheumatoid Arthritis (RA) (1.2)
- Juvenile Rheumatoid Arthritis (JRA) in patients 2 years and older (1.3)
- Ankylosing Spondylitis (AS) (1.4)
- Acute Pain (AP) (1.5)

DOSAGE AND ADMINISTRATION

Use lowest effective dose for the shortest duration consistent with treatment goals for the individual patient. (1, 5.1, 5.4)

- OA: 200 mg once daily or 100 mg twice daily (2.1, 14.1)
- RA: 100 to 200 mg twice daily (2.2, 14.2)
- JRA: 50 mg twice daily in patients 10 to 25 kg, 100 mg twice daily in patients more than 25 kg (2.3, 14.3)
- AS: 200 mg once daily single dose or 100 mg twice daily. If no effect is observed after 6 weeks, a trial of 400 mg (single or divided doses) may be of benefit (2.4, 14.4)
- AP: 400 mg initially, followed by 200 mg dose if needed on first day. On subsequent days, 200 mg twice daily as needed (2.5, 14.5)

Reduce daily dose by 50% in patients with moderate hepatic impairment (Child-Pugh Class B). Consider a dose reduction by 50% (or alternative management for JRA) in patients who are known or suspected to be CYP2C9 poor metabolizers. (2.6, 8.4, 8.8, 12.3).

FULL PRESCRIBING INFORMATION: CONTENTS*

BOXED WARNING

1 INDICATIONS AND USAGE

- Osteoarthritis
- Rheumatoid Arthritis
- Juvenile Rheumatoid Arthritis
- Ankylosing Spondylitis
- Acute Pain

2 DOSAGE AND ADMINISTRATION

- Osteoarthritis
- Rheumatoid Arthritis
- Juvenile Rheumatoid Arthritis
- Ankylosing Spondylitis
- Management of Acute Pain
- Special Populations

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- Cardiovascular Thrombotic Events
- Hypertension
- Congestive Heart Failure and Edema
- Gastrointestinal (GI) Effects
- Hepatic Effects
- Renal Effects
- Anaphylactoid Reactions
- Skin Reactions
- Pregnancy
- Corticosteroid Treatment
- Hematological Effects
- Disseminated Intravascular Coagulation (DIC)
- Preexisting Asthma
- Laboratory Tests
- Inflammation
- Concomitant NSAID Use

6 ADVERSE REACTIONS

- Pre-marketing Controlled Arthritis Trials
- The Celecoxib Long-Term Arthritis Safety Study
- Juvenile Rheumatoid Arthritis Study
- Other Pre-Approval Studies
- The APC and PreSAP Trials

7 DRUG INTERACTIONS

- Warfarin
- Lithium
- Aspirin

FULL PRESCRIBING INFORMATION

WARNING: CARDIOVASCULAR AND GASTROINTESTINAL RISKS

Cardiovascular Risk

- Celecoxib capsules may cause an increased risk of serious cardiovascular thrombotic events, myocardial infarction, and stroke, which can be fatal. All nonsteroidal anti-inflammatory drugs (NSAIDs) may have a similar risk. This risk may increase with duration of use. Patients with cardiovascular disease or risk factors for cardiovascular disease may be at greater risk. (5.1, 14.8)
- Celecoxib capsules are contraindicated for the treatment of peri-operative pain in the setting of coronary artery bypass graft (CABG) surgery. (4, 5.1)

Gastrointestinal Risk

- NSAIDs, including celecoxib capsules, cause an increased risk of serious gastrointestinal 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 are at greater risk for serious gastrointestinal events. (5.4)

1. INDICATIONS AND USAGE

Carefully consider the potential benefits and risks of celecoxib capsules and other treatment options before deciding to use celecoxib capsules. Use the lowest effective dose for the shortest duration consistent with individual patient treatment goals. (See WARNINGS AND PRECAUTIONS (5.1))

1.1 Osteoarthritis (OA)

Celecoxib capsules are indicated for relief of the signs and symptoms of OA. (See CLINICAL STUDIES (14.1))

1.2 Rheumatoid Arthritis (RA)

Celecoxib capsules are indicated for relief of the signs and symptoms of RA. (See CLINICAL STUDIES (14.2))

1.3 Juvenile Rheumatoid Arthritis (JRA)

Celecoxib capsules are indicated for relief of the signs and symptoms of JRA in patients 2 years and older. (See CLINICAL STUDIES (14.3))

1.4 Ankylosing Spondylitis (AS)

Celecoxib capsules are indicated for the relief of signs and symptoms of AS. (See CLINICAL STUDIES (14.4))

1.5 Acute Pain (AP)

Celecoxib capsules are indicated for the management of AP in adults. (See CLINICAL STUDIES (14.5))

2. DOSAGE AND ADMINISTRATION

Use twice-daily dosing with a duration consistent with treatment goals for the individual patient. These doses can be given without regard to timing of meals.

2.1 Osteoarthritis

For relief of the signs and symptoms of OA the recommended oral dose is 200 mg per day administered as a single dose or as 100 mg twice daily.

2.2 Rheumatoid Arthritis

For relief of the signs and symptoms of RA the recommended oral dose is 100 to 200 mg twice daily.

2.3 Juvenile Rheumatoid Arthritis

For the relief of the signs and symptoms of JRA the recommended oral dose for pediatric patients (age 2 years and older) is based on weight. For patients ≥ 10 kg to ≤ 25 kg the recommended dose is 50 mg twice daily. For patients > 25 kg the recommended dose is 100 mg twice daily.

For patients who have difficulty swallowing capsules, the contents of a celecoxib capsule can be added to applesauce. The entire capsule contents are carefully emptied onto a level teaspoon of cool or room temperature applesauce and ingested immediately with water. The sprinkled capsule contents on applesauce are stable for up to 5 hours under refrigerated conditions (2 to 8°C/35 to 40°F).

2.4 Ankylosing Spondylitis

For the management of the signs and symptoms of AS, the recommended dose of celecoxib capsules is 200 mg daily in single (once per day) or divided (twice per day) doses. If no effect is observed after 6 weeks, a response is not likely and consideration should be given to alternate treatment options.

2.5 Management of Acute Pain

The recommended dose of celecoxib capsules is 400 mg initially, followed by an additional 200 mg daily dose if needed on the first day. On subsequent days, the recommended dose is 200 mg twice daily as needed.

2.6 Special Populations

Hepatic Insufficiency

The daily recommended dose of celecoxib capsules in patients with moderate hepatic impairment (Child-Pugh Class B) should be reduced by 50%. The use of celecoxib capsules in patients with severe hepatic impairment is not recommended. (See WARNINGS AND PRECAUTIONS (5.5), USE IN SPECIFIC POPULATIONS (8.6) and CLINICAL PHARMACOLOGY (12.5))

Poor Metabolizers of CYP2C9 Substrates

Patients who are known or suspected to be poor CYP2C9 metabolizers based on genotype or previous history/experience with other CYP2C9 substrates (such as warfarin, phenytoin) should be administered celecoxib with caution. Consider starting treatment at half the lowest recommended dose in poor metabolizers (i.e. CYP2C9*3/*3). Consider using alternative management in JRA patients who are poor metabolizers. (See USE IN SPECIFIC POPULATIONS (8.6) and CLINICAL PHARMACOLOGY (12.5))

3. DOSAGE FORMS AND STRENGTHS

Capsules: 50 mg, 100 mg, 200 mg and 400 mg

4. CONTRAINDICATIONS

- Celecoxib is contraindicated:
 - In patients with known hypersensitivity to celecoxib, aspirin, or other NSAIDs.
 - In patients who have demonstrated allergic-type reactions to sulfonamides.
 - In patients who have had severe allergic-type reactions after taking aspirin or other NSAIDs. Severe anaphylactoid reactions to NSAIDs, some of them fatal, have been reported in such patients. (See WARNINGS AND PRECAUTIONS (5.7, 5.13)).
 - For the treatment of peri-operative pain in the setting of coronary artery bypass graft (CABG) surgery. (See WARNINGS AND PRECAUTIONS (5.1))

5. WARNINGS AND PRECAUTIONS

5.1 Cardiovascular Thrombotic Events

Chronic use of celecoxib may cause an increased risk of serious adverse cardiovascular thrombotic events, myocardial infarction, and stroke, which can be fatal. In the APC (Adenoma Prevention with Celecoxib) trial, the hazard ratio for the composite endpoint of cardiovascular death, MI, or stroke was 3.4 (95% CI 1.4 to 8.5) for celecoxib 400 mg twice daily and 2.8 (95% CI 1.1 to 7.2) with celecoxib 200 mg twice daily compared to placebo. Cumulative rates for this composite endpoint over 3 years were 3.0% (206/71 subjects) and 2.5% (17/665 subjects), respectively, compared to 0.9% (6/679 subjects) with placebo treatment. The increases in both celecoxib dose groups versus placebo-treated patients were mainly due to an increased incidence of myocardial infarction. (See CLINICAL STUDIES (14.6))

All NSAIDs, both COX-2 selective and non-selective, may have a similar risk. Patients with known CV disease or risk factors for CV disease may be at greater risk. To minimize the potential risk for an adverse CV event in patients treated with celecoxib, the lowest effective dose should be used for the shortest duration consistent with individual patient treatment goals. Physicians and patients should remain alert for the development of such events, even in the absence of previous CV symptoms. Patients should be informed about the signs

and/or symptoms of serious CV toxicity 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 celecoxib does increase the risk of serious GI events. (See WARNINGS AND PRECAUTIONS (5.4))

Two large, controlled, clinical trials of a different 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. (See CONTRAINDICATIONS (4))

5.2 Hypertension

As with all NSAIDs, celecoxib can lead to the onset of new hypertension or worsening of preexisting hypertension, either of which may contribute to the increased incidence of CV events. Patients taking diuretics or loop diuretics may have impaired response to these therapies when taking NSAIDs. NSAIDs, including celecoxib, should be used with caution in patients with hypertension. Blood pressure should be monitored closely during the initiation of therapy with celecoxib and throughout the course of therapy. The rates of hypertension from the CLASS trial in the celecoxib, ibuprofen and diclofenac-treated patients were 2.4%, 4.2% and 2.5%, respectively. (See CLINICAL STUDIES (14.6))

5.3 Congestive Heart Failure and Edema

Fluid retention and edema have been observed in some patients taking NSAIDs, including celecoxib. (See ADVERSE REACTIONS (6.1)). In the CLASS study (See CLINICAL STUDIES (14.6)), the Kaplan-Meier cumulative rates at 9 months of peripheral edema in patients on celecoxib 400 mg twice daily (4-fold and 2-fold the recommended OA and RA doses, respectively), ibuprofen 800 mg three times daily and diclofenac 75 mg twice daily were 4.5%, 6.9% and 4.7%, respectively. Celecoxib should be used with caution in patients with fluid retention or heart failure.

5.4 Gastrointestinal (GI) Effects

Risk of GI Ulceration, Bleeding, and Perforation

NSAIDs, including celecoxib, can cause serious gastrointestinal events including bleeding, ulceration, and perforation of the 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. Complicated and symptomatic ulcer rates were 0.78% at nine months for all patients in the CLASS trial, and 2.1% for the subgroup on low-dose ASA. Patients 65 years of age and older had an incidence of 1.40% at nine months, 3.06% when also taking ASA. (See CLINICAL STUDIES (14.6)) With longer duration of use of NSAIDs, there is a trend for increasing the likelihood of developing a serious GI event at some time during the course of therapy. However, even short-term therapy is not without risk.

NSAIDs should be prescribed with extreme caution in patients with a prior history of ulcer disease or gastrointestinal bleeding. Patients with a prior history of peptic ulcer disease and/or gastrointestinal bleeding who use NSAIDs have a greater than 10-fold increased risk for developing a GI bleed compared to patients with neither of these risk factors. Other factors that increase the risk of GI bleeding in patients treated with NSAIDs include concomitant use of oral corticosteroids or anticoagulants, longer duration of NSAID therapy, smoking, use of alcohol, older age, and poor general health status. Most spontaneous reports of fatal GI events are in elderly or debilitated patients and therefore special care should be taken in treating this population.

To minimize the potential risk for an adverse GI event, the lowest effective dose should be used for the shortest duration consistent with individual patient treatment goals. Physicians and patients should remain alert for signs and symptoms of GI ulceration and bleeding during celecoxib therapy and promptly initiate additional evaluation and treatment if a serious GI adverse event is suspected. For high-risk patients, alternate therapies that do not involve NSAIDs should be considered.

5.5 Hepatic Effects

Borderline elevations of one or more liver-associated enzymes may occur in up to 15% of patients taking NSAIDs, and notable elevations of ALT or AST (approximately 3 or more times the upper limit of normal) have been reported in approximately 1% of patients in clinical trials with NSAIDs. These laboratory abnormalities may progress, may remain unchanged, or may be transient with continuing therapy. Rare cases of severe hepatic reactions, including jaundice and fatal fulminant hepatitis, liver necrosis and hepatic failure (some with fatal outcome) have been reported with NSAIDs, including celecoxib. (See ADVERSE REACTIONS (6.1)). In controlled clinical trials of celecoxib, the incidence of borderline elevations (greater than or equal to 1.2 times and less than 3 times the upper limit of normal) of liver associated enzymes was 6% for celecoxib and 5% for placebo, and approximately 0.2% of patients taking celecoxib and 0.3% of patients taking placebo had notable elevations of ALT and AST.

A patient with symptoms and/or signs suggesting liver dysfunction, or in whom an abnormal liver test has occurred, should be monitored carefully for evidence of the development of a more severe hepatic reaction while on therapy with celecoxib. If clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), celecoxib should be discontinued.

5.6 Renal Effects

Long-term administration of NSAIDs has resulted in renal papillary necrosis and other renal injury. 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, heart failure, liver dysfunction, those taking diuretics, ACE-inhibitors, angiotensin II receptor antagonists, and the elderly. Discontinuation of NSAID therapy is usually followed by recovery to the pretreatment state. Clinical trials with celecoxib have shown renal effects similar to those observed with comparator NSAIDs.

No information is available from controlled clinical studies regarding the use of celecoxib in patients with advanced renal disease. Therefore, treatment with celecoxib is not recommended in these patients with advanced renal disease. If celecoxib therapy must be initiated, close monitoring of the patient's renal function is advisable.

5.7 Anaphylactoid Reactions

As with NSAIDs in general, anaphylactoid reactions have occurred in patients without known prior exposure to celecoxib. In post-marketing experience, rare cases of anaphylactic reactions and angioedema have been reported in patients receiving celecoxib. Celecoxib should not be given to patients with the aspirin triad. This symptom complex typically occurs in asthmatic patients who experience rhinitis with or without nasal polyps, or who exhibit severe, potentially fatal bronchospasm after taking aspirin or other NSAIDs. (See CONTRAINDICATIONS (4), WARNINGS AND PRECAUTIONS (5.7)). Emergency help should be sought in cases where an anaphylactoid reaction occurs.

5.8 Skin Reactions

Celecoxib is a sulfonamide and can cause serious skin adverse events such as exfoliative dermatitis, Stevens-Johnson syndrome (SJS), and toxic epidermal necrolysis (TEN), which can be fatal. These serious events can occur without warning and in patients without prior known sulfonamide allergy. Patients should be informed about the signs and symptoms of serious skin manifestations and use of the drug should be discontinued at the first appearance of skin rash or any other sign of hypersensitivity.

5.9 Pregnancy

In late pregnancy, starting at 30 weeks gestation, celecoxib should be avoided because it may cause premature closure of the ductus arteriosus. (See USE IN SPECIFIC POPULATIONS (8.1))

5.10 Corticosteroid Treatment

Celecoxib cannot be expected to substitute for corticosteroids or to treat corticosteroid insufficiency. Abrupt discontinuation of corticosteroids may lead to exacerbation of corticosteroid-responsive illness. Patients on prolonged corticosteroid therapy should have their therapy tapered slowly if a decision is made to discontinue corticosteroids.

DOSAGE FORMS AND STRENGTHS

Capsules: 50 mg, 100 mg, 200 mg and 400 mg (3)

CONTRAINDICATIONS

- Known hypersensitivity to celecoxib or sulfonamides (4)
- History of asthma, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs (4, 5.7, 5.8, 5.13)
- Use during the perioperative period in the setting of coronary artery bypass graft (CABG) surgery (4, 5.1)

WARNINGS AND PRECAUTIONS

- Serious and potentially fatal cardiovascular (CV) thrombotic events, myocardial infarction, and stroke. Patients with known CV disease/risk factors may be at greater risk (5.1, 14.6, 17.2).
- Serious gastrointestinal (GI) adverse events, which can be fatal. The risk is greater in patients with a prior history of ulcer disease or GI bleeding, and in patients at high risk for GI events, especially the elderly. Celecoxib should be used with caution in these patients (5.4, 8.5, 14.6, 17.3).
- Elevated liver enzymes and, rarely, severe hepatic reactions. Discontinue use of celecoxib immediately if abnormal liver enzymes persist or worsen (5.5, 17.4).
- New onset or worsening of hypertension. Blood pressure should be monitored closely during treatment with celecoxib (5.2, 7.4, 17.2).
- Fluid retention and edema. Celecoxib should be used with caution in patients with fluid retention or heart failure (5.3, 17.6).
- Renal papillary necrosis and other renal injury with long term use. Use celecoxib with caution in the elderly, those with impaired renal function, heart failure, liver dysfunction, and those taking diuretics, ACE-inhibitors, or angiotensin II antagonists (5.6, 7.4, 8.7, 17.6).
- Anaphylactoid reactions. Do not use celecoxib in patients with the aspirin triad (5.7, 10, 17.7).
- Serious skin adverse events such as exfoliative dermatitis, Stevens-Johnson syndrome (SJS), and toxic epidermal necrolysis (TEN), which can be fatal and can occur without warning even without known prior sulfonamide allergy. Discontinue celecoxib at first appearance of rash or skin reactions (5.8, 17.5).

ADVERSE REACTIONS

Most common adverse reactions in arthritis trials ($\geq 2\%$ and \geq placebo): abdominal pain, diarrhea, dyspepsia, flatulence, peripheral edema, accidental injury, dizziness, pharyngitis, rhinitis, sinusitis, upper respiratory tract infection, rash (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Lupin Pharmaceuticals, Inc at 1-800-399-2561 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

DRUG INTERACTIONS

- Concomitant use of celecoxib and warfarin may result in increased risk of bleeding complications. (7.1)
- Concomitant use of celecoxib increases lithium plasma levels. (7.2)
- Concomitant use of celecoxib may reduce the antihypertensive effect of ACE Inhibitors and angiotensin II antagonists (7.4)
- Use caution with drugs known to inhibit P450 2C9 or metabolized by 2D6 due to the potential for increased plasma levels (2.6, 8.4, 8.8, 12.3)

USE IN SPECIFIC POPULATIONS

- Pregnancy Category C prior to 30 weeks gestation; Category D starting at 30 weeks gestation (5.9, 8.1, 17.8)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

Revised: 03/2015

7.4 ACE-Inhibitors and Angiotensin II Antagonists

- Fluconazole
- Furosemide
- Methotrexate
- Concomitant NSAID Use

8 USE IN SPECIFIC POPULATIONS

- Labor and Delivery
- Nursing Mothers
- Pediatric Use
- Geriatric Use
- Hepatic Insufficiency
- Renal Insufficiency
- Poor Metabolizers of CYP2C9 Substrates

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- Anaphylactoid Reactions
- Effects During Pregnancy
- Preexisting Asthma

* Sections or subsections omitted from the Full Prescribing Information are not listed.

5.11 Hematological Effects

Alemtuzumab was given to patients receiving celecoxib. In controlled clinical trials the incidence of anemia was 0.6% with celecoxib and 0.4% with placebo. Patients on long-term treatment with celecoxib should have their hemoglobin or hematocrit checked if they exhibit any signs or symptoms of anemia or blood loss. Celecoxib does not generally affect platelet counts, prothrombin time (PT), or partial thromboplastin time (PTT), and does not inhibit platelet aggregation at indicated dosages. (See CLINICAL PHARMACOLOGY (12.2))

5.12 Disseminated Intravascular Coagulation (DIC)

Celecoxib should be used only with caution in pediatric patients with systemic onset JRA due to the risk of disseminated intravascular coagulation.

5.13 Preexisting Asthma

Patients with asthma may have aspirin-sensitive asthma. The use of aspirin in patients with aspirin-sensitive asthma has been associated with severe bronchospasm, which can be fatal. Since cross reactivity, including bronchospasm, between aspirin and other nonsteroidal anti-inflammatory drugs has been reported in such aspirin-sensitive patients, celecoxib should not be administered to patients with this form of aspirin sensitivity and should be used with caution in patients with preexisting asthma.

5.14 Laboratory Tests

Because serious GI tract ulcerations and bleeding can occur without warning symptoms, physicians should monitor for signs and symptoms of GI bleeding. Patients on long-term treatment with NSAIDs should have a CBC and a chemistry profile checked periodically. If abnormal liver tests or renal tests persist or worsen, celecoxib should be discontinued.

In controlled clinical trials, elevated BUN occurred more frequently in patients receiving celecoxib compared with patients on placebo. This laboratory abnormality was also seen in patients who received comparator NSAIDs in these studies. The clinical significance of this abnormality has not been established.

5.15 Inflammation

The pharmacological activity of celecoxib in reducing inflammation, and possibly fever, may diminish the utility of these diagnostic signs in detecting infectious complications of presumed noninfectious, painful conditions.

5.16 Concomitant NSAID Use

The concomitant use of celecoxib with any dose of a non-aspirin NSAID should be avoided due to the potential for increased risk of adverse reactions.

6. ADVERSE REACTIONS

Of the celecoxib-treated patients in the pre-marketing controlled clinical trials, approximately 4,250 were patients with OA, approximately 2,100 were patients with RA, and approximately 1,650 were patients with post-surgical pain. More than 8,500 patients received a total daily dose of celecoxib of 200 mg (100 mg twice daily or 200 mg once daily) or more, including more than 400 treated at 800 mg (400 mg twice daily). Approximately 3,500 patients received celecoxib at these doses for 6 months or more, approximately 2,300 of these have received it for 1 year or more and 124 of these have received it for 2 years or more.

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice. The adverse reaction information from clinical trials does, however, provide a basis for identifying the adverse events that appear to be related to drug use and for approximating rates.

6.1 Pre-marketing Controlled Arthritis Trials

Table 1 lists all adverse events, regardless of causality, occurring in $\geq 2\%$ of patients receiving celecoxib from 12 controlled studies conducted in patients with OA or RA that included a placebo and/or a positive control group. Since these 12 trials were of different durations, and patients in the trials may not have been exposed for the same duration of time, these percentages do not capture cumulative rates of occurrence. Table 1. Adverse Events Occurring in $\geq 2\%$ of Celecoxib Patients from Pre-marketing Controlled Arthritis Trials

	CXB N=1146	Placebo N=1864	NAP N=1366	DCF N=387	IBU N=345
Gastrointestinal					
Abdominal Pain	4.1%	2.8%	7.7%	9.0%	9.0%
Diarrhea	5.6%	3.9%	5.3%	9.3%	5.8%
Dyspepsia	8.8%	6.2%	12.2%	10.9%	12.8%
Fatigue	2.2%	1.0%	3.6%	4.1%	3.5%
Nausea	3.5%	4.2%	6.0%	3.4%	6.7%
Body as a whole					
Back Pain	2.8%	3.6%	2.2%	2.6%	0.9%
Peripheral Edema	2.1%				

Table 2. Adverse Events Occurring in >5% of JRA Patients in Any Treatment Group, by System Organ Class (% of patients with events)

System Organ Class Preferred Term	All Doses Twice Daily		
	Celecoxib 3 mg/kg N=77	Celecoxib 6 mg/kg N=82	Naproxen 7.5 mg/kg N=83
Any Event	64	70	72
Eye Disorders	5	5	5
Gastrointestinal	26	24	36
Abdominal pain NOS	4	7	7
Abdominal pain upper	3	7	10
Vomiting NOS	3	6	11
Diarrhea NOS	5	4	4
Nausea	7	4	11
General	13	11	18
Pyrexia	8	9	11
Infections	25	20	27
Nasopharyngitis	5	6	5
Injury and Poisoning	4	6	5
Investigations*	3	11	7
Musculoskeletal	8	10	17
Arthralgia	3	7	4
Nervous System	17	11	21
Headache NOS	13	10	16
Dizziness (incl vertigo)	1	1	7
Respiratory	8	15	15
Cough	7	7	8
Skin & Subcutaneous	10	7	18

* Abnormal laboratory tests, which include: Prolonged activated partial thromboplastin time, Bacteriuria NOS present, Blood creatine phosphokinase increased, Blood culture positive, Blood glucose increased, Blood pressure increased, Blood uric acid increased, Hematocrit decreased, Hematuria present, Hemoglobin decreased, Liver function tests NOS abnormal, Prothrombin present, Transaminase NOS increased, Urine analysis abnormal NOS

6.4 Other Pre-Approval Studies

Adverse Events from Adjuvant Spontidylol Studies
A total of 378 patients were treated with celecoxib in placebo- and active-controlled AS studies. Similar to those reported in the OARAS studies.

Adverse Events from Analgesia Studies
Approximately 1,700 patients were treated with celecoxib in analgesia studies. All patients in post-oral surgery pain studies received a single dose of study medication. Doses up to 600 mg/day of celecoxib were studied in post-orthopedic surgery pain studies. The types of adverse events in the analgesia studies were similar to those reported in arthritis studies. The only additional adverse event reported was post-dental extraction alveolar osteitis (dry socket) in the post-oral surgery pain studies.

6.5 The APC and PreSAP Trials

Adverse Reactions from Long-term, Placebo-Controlled Poly Prevention Studies
Exposure to celecoxib in the APC and PreSAP trials was 400 to 800 mg daily for up to 3 years. See Special Studies: Adenomatous Poly Prevention Studies (14.6.1).

Some adverse reactions occurred in higher percentages of patients than in the arthritis pre-marketing trials (treatment durations up to 12 weeks; see Adverse events from celecoxib pre-marketing controlled arthritis trials, above). The adverse reactions for which these differences in patients treated with celecoxib were greater as compared to the arthritis pre-marketing trials were as follows:

	Celecoxib Capsules (400 to 800 mg daily) N = 2285	Placebo N=1383
Diarrhea	10.5%	7.0%
Gastroesophageal reflux disease	4.7%	3.1%
Nausea	6.8%	5.2%
Vomiting	3.2%	2.1%
Dyspepsia	2.8%	1.6%
Hypertension	12.5%	9.8%

The following additional adverse reactions occurred in ≥ 20% and <1% of patients taking celecoxib capsules, at an incidence greater than placebo in the long-term poly prevention studies, and were either not reported during the controlled arthritis pre-marketing trials or occurred with greater frequency in the long-term, placebo-controlled poly prevention studies.

Adverse system organ classes and disorders: Ovarian cyst
Eye disorders: Vitreous floaters, conjunctival hemorrhage
Ear and labyrinth: Labyrinthitis

Cardiac disorders: Angina unstable, aortic valve incompetence, coronary artery atherosclerosis, sinus bradycardia, ventricular hypertrophy
Vascular disorders: Deep vein thrombosis

Reproductive system and breast disorders: Ovarian cyst
Investigations: Blood potassium increased, blood sodium increased, blood testosterone decreased
Urine, poisoning and preordal conditions: Epicondylitis, tendon rupture

7. DRUG INTERACTIONS

General
Celecoxib metabolism is predominantly mediated via cytochrome P450 (CYP) 2C9 in the liver. Co-administration of celecoxib with drugs that are known to inhibit CYP2C9 should be done with caution. Significant interactions may occur when celecoxib is administered together with drugs that inhibit CYP2C9.

In vitro studies indicate that celecoxib, although not a substrate, is an inhibitor of CYP2D6. Therefore, alterations in its *in vivo* drug interaction with drugs that are metabolized by CYP2D6.

7.1 Warfarin
Anticoagulant activity should be monitored, particularly in the first few days, after initiating or changing celecoxib therapy in patients receiving warfarin or similar agents, since these patients are at an increased risk of bleeding complications. The effect of celecoxib on the anticoagulant effect of warfarin was studied in a group of healthy subjects receiving daily 2 to 5 mg doses of warfarin. In these subjects, celecoxib did not alter the anticoagulant effect of warfarin by prothrombin time. However, in patients with a history of experience, serious bleeding events, some of which were fatal, have been reported, predominantly in the elderly, in association with increases in prothrombin time in patients receiving celecoxib concurrently with warfarin.

7.2 Lithium
In a study conducted in healthy subjects, mean steady-state lithium plasma levels increased approximately 17% in subjects receiving lithium 450 mg twice daily with celecoxib 200 mg twice daily as compared to subjects receiving lithium alone. Patients on lithium treatment should be closely monitored when celecoxib is introduced or withdrawn.

7.3 Aspirin
Celecoxib can be used with low-dose aspirin. However, concomitant administration of aspirin with celecoxib increases the rate of GI ulceration or other complications, compared to use of celecoxib alone (see WARNINGS AND PRECAUTIONS (5.1, 5.4) and CLINICAL STUDIES (14.6.1)). Because of its lack of platelet effects, celecoxib is not a substitute for aspirin for cardiovascular prophylaxis (see CLINICAL PHARMACOLOGY (12.2)).

7.4 ACE-inhibitors and Angiotensin II Antagonists
Reports suggest that NSAIDs may diminish the antihypertensive effect of Angiotensin Converting Enzyme (ACE) inhibitors and angiotensin II antagonists. This interaction should be given consideration in patients taking celecoxib concomitantly with ACE-inhibitors and angiotensin II antagonists (see CLINICAL PHARMACOLOGY (12.2)).

7.5 Fluoroazole
Concomitant administration of fluoroazole at 200 mg once daily resulted in a two-fold increase in celecoxib plasma concentration. This increase is due to the inhibition of celecoxib metabolism via P450 2C9 by fluoroazole (see CLINICAL PHARMACOLOGY (12.3)). Celecoxib should be introduced at the lowest recommended dose in patients receiving fluoroazole.

7.6 Furosemide
Clinical studies, as well as post-marketing observations, have shown that NSAIDs can reduce the natriuretic effect of furosemide and thiazides in some patients. This response has been attributed to inhibition of renal prostaglandin synthesis.

7.7 Methotrexate
In an interaction study of rheumatoid arthritis patients taking methotrexate, celecoxib did not have an effect on the pharmacokinetics of methotrexate (see CLINICAL PHARMACOLOGY (12.3)).

7.8 Concomitant NSAID Use
The concomitant use of celecoxib with any dose of a non-aspirin NSAID should be avoided due to the potential for increased risk of adverse reactions.

8. USE IN SPECIFIC POPULATIONS

8.1 Pregnancy
Pregnancy Category C. Pregnancy category D from 30 weeks of gestation onward.

Teratogenic Effects
Celecoxib at oral doses ≥150 mg/kg/day (approximately 2-fold human exposure at 200 mg twice daily as measured by AUC₀₋₂₄) caused an increased incidence of ventricular septal defects, a rare event, and fetal alterations, such as the loss, sternalcystic and sternalcystic malunion when rabbits were treated throughout organogenesis. A dose-dependent increase in diaphragmatic hernias was observed when rats were given celecoxib at oral doses 250 mg/kg/day (approximately 6-fold human exposure based on AUC₀₋₂₄) 100 mg twice daily throughout organogenesis. There are no studies in pregnant women. Celecoxib should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Neonatal/Infant Effects
Celecoxib produced pre-implantation and post-implantation losses and reduced embryo/fetal survival in rats at oral doses ≥50 mg/kg/day (approximately 6-fold human exposure based on the AUC₀₋₂₄) or 200 mg twice daily. These changes are expected with inhibition of prostaglandin synthesis and are not the result of permanent alteration of female reproductive function, nor are they expected at clinical exposures. No studies have been conducted to evaluate the effect of celecoxib on the closure of the ductus arteriosus in humans. Therefore, use of celecoxib during the third trimester of pregnancy should be avoided.

8.2 Labor and Delivery
Celecoxib produced no evidence of delayed labor or parturition at oral doses up to 100 mg/kg in rats (approximately 7-fold human exposure as measured by the AUC₀₋₂₄ at 200 mg BID). The effects of celecoxib on labor and delivery in pregnant women are unknown.

8.3 Nursing Mothers
Limited data from 3 published reports that included a total of 12 breastfeeding women showed low levels of celecoxib in breast milk. The calculated average daily infant dose was 10 to 40 mg/kg/day, less than 1% of the weight-based therapeutic dose for a two-year-old child. A report of two breastfed infants 17 and 22 months of age did not show any adverse events. Caution should be exercised when celecoxib is administered to a nursing woman.

8.4 Pediatric Use
Celecoxib is approved for relief of the signs and symptoms of Juvenile Rheumatoid Arthritis in patients 2 years and older. Safety and efficacy have not been studied beyond 6 months in children. The long-term cardiovascular toxicity in children exposed to celecoxib has not been evaluated and it is unknown if long-term risks may be similar to that seen in adults exposed to celecoxib or other COX-2 selective and non-selective NSAIDs (see BOXED WARNING, WARNINGS AND PRECAUTIONS (5.12), and CLINICAL STUDIES (14.3)).

The use of celecoxib in patients 2 years to 17 years of age with psoriatic, polyarticular course JRA or in patients with systemic onset JRA was studied in a 12-week, double-blind, active-controlled, pharmacokinetic, safety and efficacy study, with a 12-week open-label extension. Celecoxib has not been studied in patients under the age of 2 years, in patients with body weight less than 10 kg (22 lbs), and in patients with active systemic features. Patients with systemic onset JRA (without active systemic features) appear to be at risk for the development of abnormal coagulation laboratory tests. In some patients with systemic onset JRA, both celecoxib and naproxen were associated with mild prolongation of activated partial thromboplastin time (APTT) but not prothrombin time (PT). NSAIDs including celecoxib should be used only with caution in patients with systemic onset JRA, due to the risk of disseminated intravascular coagulation. Patients with systemic onset JRA should be monitored for the development of abnormal coagulation tests (see DOSAGE AND ADMINISTRATION (2.3), WARNINGS AND PRECAUTIONS (5.12), ADVERSE REACTIONS (5.3), ANIMAL TOXICOLOGY (13.2), CLINICAL STUDIES (14.3)).

Alternative therapies for treatment of JRA should be considered in pediatric patients identified to be CYP2C9 poor metabolizers (see Poor Metabolizers of CYP2C9 Substrates (8.8)).

8.5 Geriatric Use
Of the total number of patients who received celecoxib in pre-approval clinical trials, more than 3,300 were 65 to 74 years of age, while approximately 1,300 additional patients were 75 years and over. No substantial differences in effectiveness were observed between these subjects and younger subjects. In clinical studies comparing renal function as measured by the GFR, BUN and creatinine, and platelet function as measured by bleeding time and platelet aggregation, the results were not different between elderly and young volunteers. However, as with other NSAIDs, including those that selectively inhibit COX-2, there have been more spontaneous post-marketing reports of fatal GI events and acute renal failure in the elderly than in younger patients (see WARNINGS AND PRECAUTIONS (5.4, 5.6)).

8.6 Hepatic Insufficiency
The daily recommended dose of celecoxib capsules in patients with moderate hepatic impairment (Child-Pugh Class B) should be reduced by 50%. The use of celecoxib in patients with severe hepatic impairment is not recommended (see DOSAGE AND ADMINISTRATION (2.6) and CLINICAL PHARMACOLOGY (12.3)).

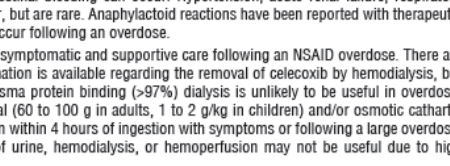
8.7 Renal Insufficiency
Celecoxib is not recommended in patients with severe renal insufficiency (see WARNINGS AND PRECAUTIONS (5.6) and CLINICAL PHARMACOLOGY (12.3)).

8.8 Poor Metabolizers of CYP2C9 Substrates
Patients who are known or suspected to be poor CYP2C9 metabolizers based on genotype or previous history/experience with other CYP2C9 substrates (such as warfarin, phenytoin) should be administered celecoxib with caution. Consider starting treatment at half the lowest recommended dose in poor metabolizers (i.e., CYP2C9*3). Alternative management should be considered in JRA patients identified to be CYP2C9 poor metabolizers (see DOSAGE AND ADMINISTRATION (2.6) and CLINICAL PHARMACOLOGY (12.3)).

10. OVERDOSE
No overdoses of celecoxib were reported during clinical trials. Doses up to 2400 mg/day for up to 10 days in 12 patients did not result in serious toxicity. Symptoms following acute NSAID overdoses are usually limited to lethargy, drowsiness, nausea, vomiting, and epigastric pain, which are generally reversible with supportive care. Gastrointestinal bleeding can occur. Hypertension, acute renal failure, respiratory depression and coma may occur, but are rare. Anaphylactoid reactions have been reported with therapeutic ingestion of NSAIDs, and may occur following an overdose.

Patients should be managed by symptomatic and supportive care following an NSAID overdose. There are no specific antidotes. No information is available regarding the removal of celecoxib by hemodialysis, but based on its high degree of plasma protein binding (>97%) dialysis is unlikely to be useful in overdose. Emesis and/or activated charcoal (60 to 100 g in adults, 1 to 2 g/kg in children) and/or osmotic cathartics may be indicated in patients seen within 4 hours of ingestion with symptoms or following a large overdose. Forced diuresis, alkalization of urine, hemodialysis, or hemoperfusion may not be useful due to high protein binding.

11. DESCRIPTION
Celecoxib is chemically designated as 4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide and is a diaryl-substituted pyrazole. The empirical formula is C₁₇H₁₅F₃N₂O₂S, and the molecular weight is 381.38; the chemical structure is as follows:



Celecoxib oral capsules contain either 50 mg, 100 mg, 200 mg or 400 mg of celecoxib, together with inactive ingredients including black iron oxide, croscarmellose sodium, FD&C blue #1, FD&C red #40, gelatin, lactose monohydrate, magnesium stearate, potassium hydroxide, povidone, polyethylene glycol, shellac, sodium lauryl sulfate, titanium dioxide, red iron oxide and yellow iron oxide.

12. CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
Celecoxib is a nonsteroidal anti-inflammatory drug that exhibits anti-inflammatory, analgesic, and antipyretic activities in animal models. The mechanism of action of celecoxib is believed to be due to inhibition of prostaglandin synthesis by inhibition of cyclooxygenase-2 (COX-2), and at therapeutic concentrations in humans, celecoxib does not inhibit the cyclooxygenase-1 (COX-1) isoenzyme. In animal colon tumor models, celecoxib reduced the incidence and multiplicity of tumors.

12.2 Pharmacodynamics
Platelets
In clinical trials using normal volunteers, celecoxib at single doses up to 800 mg and multiple doses of 600 mg twice daily for up to 7 days duration (higher than recommended therapeutic doses) had no effect on reduction of platelet aggregation or increase in bleeding time. Because of its lack of platelet effects, celecoxib is not a substitute for aspirin for cardiovascular prophylaxis. It is not known if there are any effects of celecoxib on platelets that may contribute to the increased risk of serious cardiovascular thrombotic adverse events associated with the use of celecoxib.

Foetal Retention
Inhibition of PGE2 synthesis may lead to sodium and water retention through increased reabsorption in the renal medullary thick ascending loop of Henle and perhaps other segments of the distal nephron. In the collecting ducts, PGE2 appears to inhibit water reabsorption by counteracting the action of antidiuretic hormone.

13. Pharmacokinetics
13.1 Pharmacokinetics
Peak plasma levels of celecoxib occur approximately 3 hrs after an oral dose. Under fasting conditions, both peak plasma levels (C_{max}) and area under the curve (AUC) are roughly dose-proportional up to 200 mg Q.D. at higher doses there are less than proportional increases in C_{max} and AUC (see Food Effects). Absolute bioavailability studies have been conducted with multiple dosing; steady-state conditions are reached on or before Day 5. The pharmacokinetic parameters of celecoxib in a group of healthy subjects are shown in Table 3.

13.2 Summary of Single Dose (200 mg) Disposition Kinetics of Celecoxib in Healthy Subjects*

Mean (±CV) PK Parameter Values				
C _{max} , mg/mL	T _{max} , hr	Effective t _{1/2} , hr	V _d , L	CL/F, L/hr
705 (38)	2.8 (37)	11.2 (31)	429 (34)	27.7 (28)

*Subjects under fasting conditions (n=36, 19 to 52 yrs.)

Food Effects
When celecoxib capsules were taken with a high fat meal, peak plasma levels were delayed for about 1 to 2 hours and the increase in total absorbable amount (AUC) of celecoxib was equivalent when celecoxib was administered as intact capsule or capsule contents sprinkled on applesauce. There were no significant alterations in C_{max} or t_{1/2} after administration of capsule contents on applesauce (see DOSAGE AND ADMINISTRATION (2)).

Distribution
In healthy subjects, celecoxib is highly protein bound (~97%) within the clinical dose range. In vitro studies indicate that celecoxib binds primarily to albumin and, to a lesser extent, α₁-acid glycoprotein. The apparent volume of distribution at steady state (V_d) is approximately 400 L, suggesting extensive distribution into the body. Celecoxib is not preferentially bound to red blood cells.

Metabolism
Celecoxib metabolism is primarily mediated via CYP2C9. Three metabolites, a primary alcohol, the corresponding carboxylic acid, and its glucuronide conjugate, have been identified in human plasma. These metabolites are inactive as COX-1 or COX-2 inhibitors.

Excretion
Celecoxib is eliminated predominantly by hepatic metabolism with little (<3%) unchanged drug recovered in the urine and feces. Following a single oral dose of radiolabeled drug, approximately 57% of the dose was excreted in the feces and 27% was excreted into the urine. The primary metabolite in both urine and feces was the carboxylic acid, with the unchanged drug representing less than 50% in body weight, indicating that it appears that the low solubility of the drug prolongs the absorption process making terminal half-life (t_{1/2}) determinations more variable. The effective half-life is approximately 11 hours under fasting conditions. The apparent plasma clearance (CL/F) is about 500 mL/min.

At steady state, elderly subjects (over 65 years old) had a 40% higher C_{max} and a 50% higher AUC compared to the young subjects. In elderly females, C_{max} and AUC are higher than those for elderly males, but these increases are predominantly due to lower body weight in elderly females. Dose adjustment in the elderly is not generally necessary. However, for patients of less than 50 kg in body weight, initiate therapy at the lowest recommended dose (see DOSAGE AND ADMINISTRATION (2.6) and USE IN SPECIFIC POPULATIONS (8.5)).

Pediatric
In healthy subjects, celecoxib is highly protein bound (~97%) within the clinical dose range. In vitro studies indicate that celecoxib binds primarily to albumin and, to a lesser extent, α₁-acid glycoprotein. The apparent volume of distribution at steady state (V_d) is approximately 400 L, suggesting extensive distribution into the body. Celecoxib is not preferentially bound to red blood cells.

Endoscopic Studies
The correlation between findings of short-term endoscopic studies with celecoxib and the relative incidence of clinically significant serious upper GI events with long-term use has not been established. Serious or complicated upper GI outcomes have been observed in patients with a history of upper GI disease (see WARNINGS AND PRECAUTIONS (5.4) and ADVERSE REACTIONS (6.1)).

Cardiovascular safety outcomes were also evaluated in the CLASS trial. Kaplan-Meier cumulative rates of myocardial infarction (MI) and stroke were similar in patients receiving celecoxib in controlled and open-labeled trials (see WARNINGS AND PRECAUTIONS (5.4) and CLINICAL STUDIES (14.6.1)).

A randomized, double-blind study in 430 RA patients was conducted in which an endoscopic examination was performed at 6 months. The incidence of endoscopic ulcers in patients taking celecoxib 200 mg twice daily was 1.2% vs. 1.9% for patients taking diclofenac 75 mg twice daily. However, celecoxib was not statistically different than diclofenac for clinically relevant GI outcomes in the CLASS trial (see CLINICAL STUDIES (14.6.1)).

The incidence of endoscopic ulcers was studied in two 12-week, placebo-controlled studies in 2157 OA and RA patients in whom baseline endoscopies revealed no ulcers. There was no dose relationship for the incidence of gastrointestinal ulcers and the dose of celecoxib (50 mg to 400 mg twice daily). The incidence for naproxen 500 mg twice daily was 16.2 and 17.6% in the two studies; for placebo was 2.0 and 2.3%, and all doses of celecoxib the incidence ranged between 2.7% to 5.9%. There have been 8000+ clinical outcome studies to compare clinically relevant GI outcomes with celecoxib and naproxen.

In the endoscopic studies, approximately 11% of patients were taking aspirin (≤ 325 mg/day). In the celecoxib groups, the endoscopic ulcer rate appeared to be higher in aspirin users than in non-users. However, the increased number of ulcers in aspirin users was less than the endoscopic ulcer rates observed in the active comparator groups, with or without aspirin.

16. HOW SUPPLIED/STORAGE AND HANDLING
Celecoxib Capsules, 50 mg are available as size "3" capsules having red opaque cap, imprinted with 'LU' in black ink and white opaque body imprinted with 'N41' in black ink, containing white to off-white powder. They are supplied as follows:

NDC Number Size
NDC 68180-395-07 bottle of 60
Celecoxib Capsules, 100 mg are available as size "3" capsules having blue opaque cap, imprinted with 'LU' in black ink and white opaque body imprinted with 'N42' in black ink, containing white to off-white powder. They are supplied as follows:

NDC Number Size
NDC 68180-396-01 bottle of 100
NDC 68180-396-02 bottle of 500
NDC 68180-397-03 bottle of 1000
Celecoxib Capsules, 400 mg are size "00EL" capsules having green opaque cap, imprinted with 'LU' in black ink and white opaque body imprinted with 'N44' in black ink, containing white to off-white powder.

NDC Number Size
NDC 68180-398-07 bottle of 60
NDC 68180-398-01 bottle of 100
Celecoxib Capsules, 200 mg are size "0" capsules having gold opaque cap, imprinted with 'LU' in black ink and white opaque body imprinted with 'N43' in black ink, containing white to off-white powder.

Storage
Store at 25°C (77°F); excursions permitted to be 15° to 30°C (59° to 86°F) (see USP Controlled Room Temperature).

17. PATIENT COUNSELING INFORMATION
Patients should be informed of the following information before initiating therapy with celecoxib capsules and periodically during the course of ongoing therapy.

17.1 Medication Guide
Patients should be informed of the availability of a Medication Guide for NSAIDs that accompanies each prescription dispensed, and should be instructed to read the Medication Guide prior to using celecoxib.

17.2 Cardiovascular Effects
Patients should be informed that celecoxib capsules may cause serious CV side effects such as MI or stroke, which may result in hospitalization and even death. Patients should be informed of the signs and symptoms of chest pain, shortness of breath, weakness, slurring of speech, to seek immediate medical advice if they observe any of these signs or symptoms. (see WARNINGS AND PRECAUTIONS (5.1)).

Patients should be informed that celecoxib capsules can lead to the onset of new hypertension or worsening of preexisting hypertension, and that celecoxib may impair the response of some antihypertensive agents. Patients should be instructed on the proper follow up for monitoring of blood pressure. (see WARNINGS AND PRECAUTIONS (5.2) and DRUG INTERACTIONS (7.4)).

17.3 Gastrointestinal Effects
Patients should be informed that celecoxib capsules can cause gastrointestinal discomfort and more serious side effects, such as ulcers and bleeding, which may result in hospitalization and even death. Patients should be informed of the signs and symptoms of ulcerations and bleeding, and to seek immediate medical advice if they observe any signs or symptoms that are indicative of these disorders, including epigastric pain, dyspepsia, melena and hematemesis. (see WARNINGS AND PRECAUTIONS (5.4)).

17.4 Hepatic Effects
Patients should be informed of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, pruritus, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). Patients should be instructed that they should stop therapy and seek immediate medical therapy if they have these signs and symptoms occur (see WARNINGS AND PRECAUTIONS (5.5), USE IN SPECIFIC POPULATIONS (8.6)).

17.5 Adverse Skin Reactions
Patients should be informed that celecoxib capsules is a sulfonamide and can cause serious skin side effects such as exfoliative dermatitis, SJS, and TEN, which may result in hospitalizations and even death. Although serious skin reactions may occur without warning, patients should be informed of the signs and symptoms of skin rash and blisters, fever, or other signs of hypersensitivity such as itching, and seek immediate medical advice when observing any indicative signs or symptoms. Patients should be advised to stop celecoxib capsules immediately if they develop any type of rash and contact their physician as soon as possible.

Patients with prior history of sulfa allergy should not take celecoxib capsules (see WARNINGS AND PRECAUTIONS (5.6)).

17.6 Weight Gain and Edema
Long-term administration of NSAIDs including celecoxib capsules has resulted in renal injury. Patients at greatest risk are those taking diuretics, ACE-inhibitors, angiotensin II antagonists, or with renal or liver dysfunction, heart failure, and the elderly (see WARNINGS AND PRECAUTIONS (5.3, 5.6), USE IN SPECIFIC POPULATIONS (8)).

Patients should be instructed to promptly report to their physicians signs or symptoms of unexplained weight gain or edema following treatment with celecoxib capsules (see WARNINGS AND PRECAUTIONS (5.3)).

17.7 Anaphylactoid Reactions
Patients should be informed of the signs and symptoms of an anaphylactoid reaction (e.g., difficulty breathing, swelling of the face or throat). Patients should be instructed to seek immediate emergency assistance if they develop any of these signs and symptoms (see WARNINGS AND PRECAUTIONS (5.7)).

17.8 Effects During Pregnancy
Patients should be informed that in late pregnancy celecoxib capsules should be avoided because it may cause premature closure of the ductus arteriosus (see WARNINGS AND PRECAUTIONS (5.9), USE IN SPECIFIC POPULATIONS (8.1)).

17.9 Preexisting Asthma
Patients should be instructed to tell their physicians if they have a history of asthma or aspirin-sensitive asthma because the use of NSAIDs in patients with aspirin-sensitive asthma has been associated with severe bronchospasm, which can be fatal. Patients with this form of aspirin sensitivity should be instructed not to take celecoxib capsules. Patients with preexisting asthma should be instructed to seek immediate medical attention if their asthma worsens after taking celecoxib capsules (see WARNINGS AND PRECAUTIONS (5.13)).

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MEDICATION GUIDE

**Celecoxib Capsules, 50 mg, 100 mg, 200 mg and 400 mg
Rx Only**

Medication Guide for Non-Steroidal Anti-Inflammatory Drugs (NSAIDs)
(See the end of this Medication Guide for a list of prescription NSAIDs.)

What is the most important information I should know about medicines called Non-Steroidal Anti-Inflammatory Drugs (NSAIDs)?

NSAID medicines may increase the chance of a heart attack or stroke that can lead to death. This chance increases:

- with longer use of NSAID medicines
- in people who have heart disease

NSAID medicines should never be used right before or after a heart surgery called a "coronary artery bypass graft (CABG)."

NSAID medicines can cause ulcers and bleeding in the stomach and intestines at any time during treatment. Ulcers and bleeding:

- can happen without warning symptoms
- may cause death