HIGHLIGHTS OF PRESCRIBING INFORMATION 099 Clopidogrel 75 mg

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

CLOPIDOGREL tablets, for oral use

Initial U.S. Approval: 1997

WARNING: DIMINISHED ANTIPLATELET EFFECT IN PATIENTS WITH TWO LOSS-OF-FUNCTION **ALLELES OF THE CYP2C19 GENE**

See full prescribing information for complete boxed warning.

• Effectiveness of clopidogrel depends on conversion to an active metabolite by the cytochrome P450 (CYP) system, principally CYP2C19. (5.1, 12.3)

• Tests are available to identify patients who are CYP2C19 poor metabolizers. (12.5)

• Consider use of another platelet P2Y12 inhibitor in patients identified as CYP2C19 poor metabolizers. (5.1)

..... RECENT MAJOR CHANGES

Boxed Warning 9/2016 Indications and Usage (1.1, 1.2) 9/2016

Dosage and Administration (2.1, 2.2) 9/2016

Warnings and Precautions (5.1, 5.2, 5.3) 9/2016

------ INDICATIONS AND USAGE

Clopidogrel tablets are a P2Y ₁₂ platelet inhibitor indicated for:

• Acute coronary syndrome

- For patients with non-ST-segment elevation ACS [unstable angina (UA)/non-ST-elevation myocardial infarction (NSTEMI)], clopidogrel tablets have been shown to reduce the rate of myocardial infarction (MI) and stroke. (1.1) - For patients with ST-elevation myocardial infarction (STEMI), clopidogrel tablets have been shown to reduce the rate of MI and stroke (1.1)

• Recent MI, recent stroke, or established peripheral arterial disease. Clopidogrel tablets have been shown to reduce the rate of MI and stroke. (1.2)

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

• Acute coronary syndrome (2.1)

- Initiate clopidogrel tablets with a single 300-mg oral loading dose and then continue at 75 mg once daily . - Initiating clopidogrel tablets without a loading dose will delay establishment of an antiplatelet effect by several days.

Recent MI, recent stroke, or established peripheral arterial disease: 75 mg once daily orally without a loading dose (2.2)

	DOSAGE FORMS AND STRENGTHS	
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Tablets: 75 mg (3) (3)

------ CONTRAINDICATIONS

- Active pathological bleeding, such as peptic ulcer or intracranial hemorrhage (4.1)
- Hypersensitivity to clopidogrel or any component of the product (4.2)
- ------ WARNINGS AND PRECAUTIONS -------
- CYP2C19 inhibitors: Avoid concomitant use of omeprazole or esomeprazole. (5.1)
- Bleeding: Clopidogrel increases risk of bleeding. (5.2) •
- Discontinuation: Premature discontinuation increases risk of cardiovascular events. Discontinue 5 days prior to elective • surgery that has a major risk of bleeding. (5.3)
- Thrombotic thrombocytopenic purpura (TTP) has been reported. (5.4) •
- Cross-reactivity among thienopyridines has been reported. (5.5)

ADVERSE REACTIONS
Bleeding, including life-threatening and fatal bleeding, is the most commonly reported adverse reaction. (6.1)
To report SUSPECTED ADVERSE REACTIONS, contact Dr. Reddy's Laboratories, Inc. at 1-888-375-3784or
FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.
DRUG INTERACTIONS
• Nonsteroidal anti-inflammatory drugs (NSAIDs), warfarin, selective serotonin and serotonin norepinephrine reuptake
inhibitors (SSRIs, SNRIs): Increases risk of bleeding. (7.2,7.3,7.4)
Repaglinide (CYP2C8 substrates): Increases substrate plasma concentrations. (7.5)
Nursing mothers: Discontinue drug or nursing. (8.3)
See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.
Revised: 7/2017

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FULL PRESCRIBING INFORMATION

WARNING: DIMINISHED ANTIPLATELET EFFECT IN PATIENTS WITH TWO LOSS-OF-FUNCTION ALLELES OF THE CYP2C19 GENE

The effectiveness of clopidogrel results from its antiplatelet activity, which is dependent on its conversion to an active metabolite by the cytochrome P450 (CYP) system, principally CYP2C19 [see Warnings and Precautions (5.1), Clinical Pharmacology (12.3)]. Clopidogrel at recommended doses forms less of the active metabolite and so has a reduced effect on platelet activity in patients who are homozygous for nonfunctional alleles of the CYP2C19 gene, (termed "CYP2C19 poor metabolizers"). Tests are available to identify patients who are CYP2C19 poor metabolizers [see Clinical Pharmacology (12.5)]. Consider use of another platelet P2Y12 inhibitor in patients identified as CYP2C19 poor metabolizers.

1 INDICATIONS AND USAGE

1.1 Acute Coronary Syndrome (ACS)

- Clopidogrel tablets are indicated to reduce the rate of myocardial infarction (MI) and stroke in patients with non-ST-segment elevation ACS [unstable angina (UA)/non-ST-elevation myocardial infarction (NSTEMI)], including patients who are to be managed medically and those who are to be managed with coronary revascularization. Clopidogrel tablets should be administered in conjunction with aspirin.
- Clopidogrel tablets are indicated to reduce the rate of myocardial infarction and stroke in patients with acute ST-elevation myocardial infarction (STEMI) who are to be managed medically. Clopidogrel tablets should be administered in conjunction with aspirin.

1.2 Recent MI, Recent Stroke, or Established Peripheral Arterial Disease

In patients with established peripheral arterial disease or with a history of recent myocardial infarction (MI) or recent stroke clopidogrel tablets are indicated to reduce the rate of MI and stroke.

2 DOSAGE AND ADMINISTRATION

2.1 Acute Coronary Syndrome

In patients who need an antiplatelet effect within hours, initiate clopidogrel tablets with a single 300 mg oral loading dose and then continue at 75 mg once daily. Initiating clopidogrel tablets without a loading dose will delay establishment of an antiplatelet effect by several days [see **Clinical Pharmacology**(12.3) and **Clinical Studies**(14.1)].

2.2 Recent MI, Recent Stroke, or Established Peripheral Arterial Disease

75 mg once daily orally without a loading dose [see **Clinical Pharmacology**(12.3) and **Clinical Studies**(14.2)].

3 DOSAGE FORMS AND STRENGTHS

Clopidogrel tablets USP, 75 mg are white, film coated, round, biconvex tablets debossed with "R" on one side and "196" on other side.

4 CONTRAINDICATIONS

4.1 Active Bleeding

Clopidogrel tablets are contraindicated in patients with active pathological bleeding such as peptic ulcer or intracranial hemorrhage.

4.2 Hypersensitivity

Clopidogrel tablets are contraindicated in patients with hypersensitivity (e.g., anaphylaxis) to clopidogrel or any component of the product [see **Adverse Reactions (6.2)**].

5 WARNINGS AND PRECAUTIONS

5.1 Diminished Antiplatelet Activity in Patients with Impaired CYP2C19 Function

Clopidogrel is a prodrug. Inhibition of platelet aggregation by clopidogrel is achieved through an active metabolite. The metabolism of clopidogrel to its active metabolite can be impaired by genetic variations in CYP2C19 [see **Boxed Warning**]

The metabolism of clopidogrel can also be impaired by drugs that inhibit CYP2C19, such as omeprazole or esomeprazole. Avoid concomitant use of clopidogrel with omeprazole or esomeprazole because both significantly reduce the antiplatelet activity of clopidogrel [see **Drug Interactions (7.1)**]

5.2 General Risk of Bleeding

Thienopyridines, including clopidogrel, increase the risk of bleeding.

Thienopyridines inhibit platelet aggregation for the lifetime of the platelet (7 to 10 days). Because the half-life of clopidogrel's active metabolite is short, it may be possible to restore hemostasis by administering exogenous platelets; however, platelet transfusions within 4 hours of the loading dose or 2 hours of the maintenance dose may be less effective.

5.3 Discontinuation of Clopidogrel

Discontinuation of clopidogrel increases the risk of cardiovascular events. If clopidogrel must be temporarily discontinued (e.g., to treat bleeding or for surgery with a major risk of bleeding), restart it as soon as possible. When possible, interrupt therapy with clopidogrel for five days prior to such surgery. Resume clopidogrel as soon as hemostasis is achieved.

5.4 Thrombotic Thrombocytopenic Purpura (TTP)

TTP, sometimes fatal, has been reported following use of clopidogrel, sometimes after a short exposure (<2 weeks). TTP is a serious condition that requires urgent treatment including plasmapheresis (plasma exchange). It is characterized by thrombocytopenia, microangiopathic hemolytic anemia (schistocytes [fragmented RBCs] seen on peripheral smear), neurological findings, renal dysfunction, and fever [see **Adverse Reactions (6.2)**].

5.5 Cross-Reactivity among Thienopyridines

Hypersensitivity including rash, angioedema or hematologic reaction have been reported in patients receiving clopidogrel, including patients with a history of hypersensitivity or hematologic reaction to other thienopyridines [see **Contraindications (4.2) and Adverse Reactions (6.2)].**

6 ADVERSE REACTIONS

The following serious adverse reactions are discussed below and elsewhere in the labeling:

- Bleeding [see Warnings and Precautions (5.2)]
- Thrombotic thrombocytopenic purpura [see **Warnings and Precautions (5.4)**]

6.1 Clinical Studies Experience

Because clinical trials are conducted under widely varying conditions and durations of follow up, 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 practice.

Clopidogrel has been evaluated for safety in more than 54,000 patients, including over 21,000 patients treated for one year or more. The clinically important adverse reactions observed in trials comparing clopidogrel plus aspirin to placebo plus aspirin and trials comparing clopidogrel alone to aspirin alone are discussed below.

<u>Bleeding</u>

CURE

In CURE, clopidogrel use with aspirin was associated with an increase in major bleeding (primarily gastrointestinal and at puncture sites) compared to placebo with aspirin (see Table 1). The incidence of intracranial hemorrhage (0.1%) and fatal bleeding (0.2%) were the same in both groups. Other bleeding events that were reported more frequently in the clopidogrel group were epistaxis, hematuria, and bruise. The overall incidence of bleeding is described in Table 1.

Table 1: CURE Incidence of Bleeding Complications (% patients)

Event	Clopidogrel	Placebo
	(+ aspirin)	(+ aspirin)
	(n=6259)	(n=6303)
Major bleeding †	3.7	2.7
Life-threatening bleeding	2.2	1.8
Fatal	0.2	0.2
5 g/dL hemoglobin drop	0.9	0.9
Requiring surgical intervention	0.7	0.7
Hemorrhagic strokes	0.1	0.1
Requiring inotropes	0.5	0.5
Requiring transfusion (≥ 4 units)	1.2	1
Other major bleeding	1.6	1
Significantly disabling	0.4	0.3

Intraocular bleeding with	0.05	0.03
significant loss of vision		
Requiring 2 to 3 units of blood	1.3	0.9
Minor bleeding ¶	5.1	2.4

† Life threatening and other major bleeding.

¶ Led to interruption of study medication.

COMMIT

In COMMIT, similar rates of major bleeding were observed in the clopidogrel and placebo groups, both of which also received aspirin (see Table 2).

Table 2: Incidence of Bleeding Events in COMMIT (% patients)

Type of bleeding	Clopidogrel(+ aspirin)	Placebo(+ aspirin)	P-value
	(N=22961)	(N=22891)	
Major* noncerebral or cerebral bleeding	0.6	0.5	0.59
Major noncerebral	0.4	0.3	0.48
Fatal	0.2	0.2	0.90
Hemorrhagic stroke	0.2	0.2	0.91
Fatal	0.2	0.2	0.81
Other noncerebral bleeding (non-major)	3.6	3.1	0.005
Any noncerebral bleeding	3.9	3.4	0.004

* Major bleeds were cerebral bleeds or non-cerebral bleeds thought to have caused death or that required transfusion.

CAPRIE (Clopidogrel vs. Aspirin)

In CAPRIE, gastrointestinal hemorrhage occurred at a rate of 2 % in those taking clopidogrel vs. 2.7% in those taking aspirin; bleeding requiring hospitalization occurred in 0.7% and 1.1%, respectively. The incidence of intracranial hemorrhage was 0.4% for clopidogrel compared to 0.5% for aspirin.

Other bleeding events that were reported more frequently in the clopidogrel group were epistaxis and hematoma.

Other Adverse Events

In CURE and CHARISMA, which compared clopidogrel plus aspirin to aspirin alone, there was no difference in the rate of adverse events (other than bleeding) between clopidogrel and placebo.

In CAPRIE, which compared clopidogrel to aspirin, pruritus was more frequently reported in those taking clopidogrel. No other difference in the rate of adverse events (other than bleeding) was reported.

6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of clopidogrel. Because these reactions are reported voluntarily from a population of an unknown size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

- *Blood and lymphatic system disorders:* Agranulocytosis, aplastic anemia/pancytopenia, thrombotic thrombocytopenic purpura (TTP)), acquired hemophilia A
- *Gastrointestinal disorders:* Colitis (including ulcerative or lymphocytic colitis), pancreatitis, stomatitis, gastric/duodenal ulcer, diarrhea
- General disorders and administration site condition: Fever
- *Hepato-biliary disorders:* Acute liver failure, hepatitis (non-infectious), abnormal liver function test
- Immune system disorders: Hypersensitivity reactions, anaphylactoid reactions, serum sickness

- Musculoskeletal, connective tissue and bone disorders: Myalgia, arthralgia, arthritis
- Nervous system disorders: Taste disorders, headache
- Psychiatric disorders: Confusion, hallucinations
- *Respiratory, thoracic and mediastinal disorders:* Bronchospasm, interstitial pneumonitis, eosinophilic pneumonia
- *Renal and urinary disorders:* Increased creatinine levels
- Skin and subcutaneous tissue disorders: Maculopapular, erythematous or exfoliative rash, urticaria, bullous dermatitis, eczema, toxic epidermal necrolysis, Stevens-Johnson syndrome, acute generalized exanthematous pustulosis (AGEP), angioedema, drug-induced hypersensitivity syndrome, drug rash with eosinophilia and systemic symptoms (DRESS), erythema multiforme, skin bleeding, lichen planus, generalized pruritus
- Vascular disorders: Vasculitis, hypotension

7 DRUG INTERACTIONS

7.1 CYP2C19 Inhibitors

Clopidogrel is metabolized to its active metabolite in part by CYP2C19. Concomitant use of certain drugs that inhibit the activity of this enzyme results in reduced plasma concentrations of the active metabolite of clopidogrel and a reduction in platelet inhibition.inhibition [see Warnings and Precautions (5.1)].

Omeprazole or esomeprazole

Avoid concomitant use of clopidogrel with omeprazole or esomeprazole. In clinical studies, omeprazole was shown to reduce significantly the antiplatelet activity of clopidogrel when given concomitantly or 12 hours apart. A similar reduction in antiplatelet activity was observed with esomeprazole when given concomitantly with clopidogrel. Dexlansoprazole, lansoprazole and pantoprazole had less effect on the antiplatelet activity of clopidogrel than did omeprazole or esomeprazole [see Warnings and Precautions (5.1) and Clinical Pharmacology (12.3)].

7.2 Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)

Coadministration of clopidogrel and NSAIDs increases the risk of gastrointestinal bleeding.

7.3 Warfarin (CYP2C9 Substrates)

Although the administration of clopidogrel 75 mg per day did not modify the pharmacokinetics of S-warfarin (a CYP2C9 substrate) or INR in patients receiving long-term warfarin therapy, coadministration of clopidogrel with warfarin increases the risk of bleeding because of independent effects on hemostasis.

However, at high concentrations in vitro, clopidogrel inhibits CYP2C9.

7.4 SSRIs and SNRIs

Since selective serotonin reuptake inhibitors (SSRIs) and serotonin norepinephrine reuptake inhibitors (SNRIs) affect platelet activation, the concomitant administration of SSRIs and SNRIs with clopidogrel may increase the risk of bleeding.

7.5 Repaglinide (CYP2C8 Substrates)

The acyl-β-glucuronide metabolite of clopidogrel is a strong inhibitor of CYP2C8. Clopidogrel can increase the systemic exposure to drugs that are primarily cleared by CYP2C8, thereby needing dose-adjustment and appropriate monitoring.

Clopidogrel increased repaglinide exposures by 3.9- to 5.1-fold [see **Clinical Pharmacology (12.3)**]. Avoid concomitant use of repaglinide with clopidogrel. If concomitant use cannot be avoided, initiate

repaglinide at 0.5 mg before each meal and do not exceed a total daily dose of 4 mg. Increased frequency of glucose monitoring may be required during concomitant use.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category B

Reproduction studies performed in rats and rabbits at doses up to 500 and 300 mg/kg/day, respectively (65 and 78 times the recommended daily human dose, respectively, on a mg/m² basis), revealed no evidence of impaired fertility or fetotoxicity due to clopidogrel. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of a human response, clopidogrel should be used during pregnancy only if clearly needed.

8.3 Nursing Mothers

Studies in rats have shown that clopidogrel and/or its metabolites are excreted in the milk. It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from clopidogrel, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

8.4 Pediatric Use

Safety and effectiveness in pediatric populations have not been established.

A randomized, placebo-controlled trial (CLARINET) did not demonstrate a clinical benefit of clopidogrel in neonates and infants with cyanotic congenital heart disease palliated with a systemic-to-pulmonary arterial shunt. Possible factors contributing to this outcome were the dose of clopidogrel, the concomitant administration of aspirin and the late initiation of therapy following shunt palliation. It cannot be ruled out that a trial with a different design would demonstrate a clinical benefit in this patient population.

8.5 Geriatric Use

Of the total number of subjects in the CAPRIE and CURE controlled clinical studies, approximately 50% of patients treated with clopidogrel were 65 years of age and older, and 15% were 75 years and older. In COMMIT, approximately 58% of the patients treated with clopidogrel were 60 years and older, 26% of whom were 70 years and older.

The observed risk of bleeding events with clopidogrel plus aspirin versus placebo plus aspirin by age category is provided in Table 1 and Table 2 for the CURE and COMMIT trials, respectively [see **Adverse Reactions (6.1)**]. No dosage adjustment is necessary in elderly patients.

8.6 Renal Impairment

Experience is limited in patients with severe and moderate renal impairment [see **Clinical Pharmacology (12.2)**].

8.7 Hepatic Impairment

No dosage adjustment is necessary in patients with hepatic impairment [see **Clinical Pharmacology** (12.2)].

10 OVERDOSAGE

Platelet inhibition by clopidogrel is irreversible and will last for the life of the platelet. Overdose

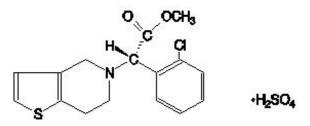
following clopidogrel administration may result in bleeding complications. A single oral dose of clopidogrel at 1500 or 2000 mg/kg was lethal to mice and to rats and at 3000 mg/kg to baboons. Symptoms of acute toxicity were vomiting, prostration, difficult breathing, and gastrointestinal hemorrhage in animals.

Based on biological plausibility, platelet transfusion may restore clotting ability.

11 DESCRIPTION

Clopidogrel bisulfate USP is a thienopyridine class inhibitor of P2Y $_{12}$ ADP platelet receptors. Chemically it is methyl (+)-(S)- α -(2-chlorophenyl)-6,7-dihydrothieno[3,2-c]pyridine-5(4H)acetate sulfate (1:1). The molecular formula of clopidogrel bisulfate USP is C $_{16}$ H $_{16}$ Cl NO $_{2}$ S•H $_{2}$ SO $_{4}$ and its molecular weight is 419.9.

The structural formula is as follows:



Clopidogrel bisulfate USP is a white to off-white powder. It is freely soluble in methanol and practically insoluble in ether. It has a specific optical rotation of between +53° and + 58°.

Clopidogrel for oral administration is provided as white, film coated, round, biconvex tablets debossed with "R" on one side and "196" on other side. Each tablet contains 97.875 mg of clopidogrel bisulfate which is the molar equivalent to 75 mg of clopidogrel base.

Each tablet contains colloidal silicon dioxide, croscarmellose sodium, magnesium stearate, mannitol and microcrystalline cellulose as inactive ingredients. The film coating contains hypromellose 2910-5cP, polyethylene glycol 400 and titanium dioxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Clopidogrel is an inhibitor of platelet activation and aggregation through the irreversible binding of its active metabolite to the P2Y $_{12}$ class of ADP receptors on platelets.

12.2 Pharmacodynamics

Clopidogrel must be metabolized by CYP450 enzymes to produce the active metabolite that inhibits platelet aggregation. The active metabolite of clopidogrel selectively inhibits the binding of adenosine diphosphate (ADP) to its platelet P2Y ₁₂ receptor and the subsequent ADP-mediated activation of the glycoprotein GPIIb/IIIa complex, thereby inhibiting platelet aggregation. This action is irreversible. Consequently, platelets exposed to clopidogrel's active metabolite are affected for the remainder of their lifespan (about 7 to 10 days). Platelet aggregation induced by agonists other than ADP is also inhibited by blocking the amplification of platelet activation by released ADP.

Dose-dependent inhibition of platelet aggregation can be seen 2 hours after single oral doses of clopidogrel. Repeated doses of 75 mg clopidogrel per day inhibit ADP-induced platelet aggregation on the first day, and inhibition reaches steady state between Day 3 and Day 7. At steady state, the average inhibition level observed with a dose of 75 mg clopidogrel per day was between 40% and 60%. Platelet aggregation and bleeding time gradually return to baseline values after treatment is discontinued, generally in about 5 days.

Geriatric Patients

Elderly (\geq 75 years) and young healthy subjects had similar effects on platelet aggregation.

Renally-Impaired Patients

After repeated doses of 75 mg clopidogrel per day, patients with severe renal impairment (creatinine clearance from 5 to 15 mL/min) and moderate renal impairment (creatinine clearance from 30 to 60 mL/min) showed low (25%) inhibition of ADP-induced platelet aggregation.

Hepatically-Impaired Patients

After repeated doses of 75 mg clopidogrel per day for 10 days in patients with severe hepatic impairment, inhibition of ADP-induced platelet aggregation was similar to that observed in healthy subjects.

<u>Gender</u>

In a small study comparing men and women, less inhibition of ADP-induced platelet aggregation was observed in women.

12.3 Pharmacokinetics

Clopidogrel is a prodrug and is metabolized to a pharmacologically active metabolite and inactive metabolites.

Absorption

After single and repeated oral doses of 75 mg per day, clopidogrel is rapidly absorbed. Absorption is at least 50%, based on urinary excretion of clopidogrel metabolites.

Effect of Food

Clopidogrel can be administered with or without food. In a study in healthy male subjects when clopidogrel 75 mg per day was given with a standard breakfast, mean inhibition of ADP-induced platelet aggregation was reduced by less than 9%. The active metabolite AUC $_{0-24}$ was unchanged in the presence of food, while there was a 57% decrease in active metabolite Cmax. Similar results were observed when a clopidogrel 300 mg loading dose was administered with a high-fat breakfast.

<u>Metabolism</u>

Clopidogrel is extensively metabolized by two main metabolic pathways: one mediated by esterases and leading to hydrolysis into an inactive carboxylic acid derivative (85% of circulating metabolites) and one mediated by multiple cytochrome P450 enzymes. Cytochromes first oxidize clopidogrel to a 2-oxo-clopidogrel intermediate metabolite. Subsequent metabolism of the 2-oxo-clopidogrel intermediate metabolite results in formation of the active metabolite, a thiol derivative of clopidogrel. The active metabolite is formed mostly by CYP2C19 with contributions from several other CYP enzymes, including CYP1A2, CYP2B6 and CYP3A. The active thiol metabolite binds rapidly and irreversibly to platelet receptors, thus inhibiting platelet aggregation for the lifespan of the platelet.

The Cmax of the active metabolite is twice as high following a single 300 mg clopidogrel loading dose as it is after four days of 75 mg maintenance dose. Cmax occurs approximately 30 to 60 minutes after dosing. In the 75 to 300 mg dose range, the pharmacokinetics of the active metabolite deviates from dose proportionality: 4-fold the dose results in 2- and 2.7-fold the Cmax and AUC, respectively.

<u>Elimination</u>

Following an oral dose of ¹⁴C-labeled clopidogrel in humans, approximately 50% of total radioactivity was excreted in urine and approximately 46% in feces over the 5 days post-dosing. After a single, oral dose of 75 mg, clopidogrel has a half-life of approximately 6 hours. The half-life of the active metabolite is about 30 minutes.

Drug Interactions

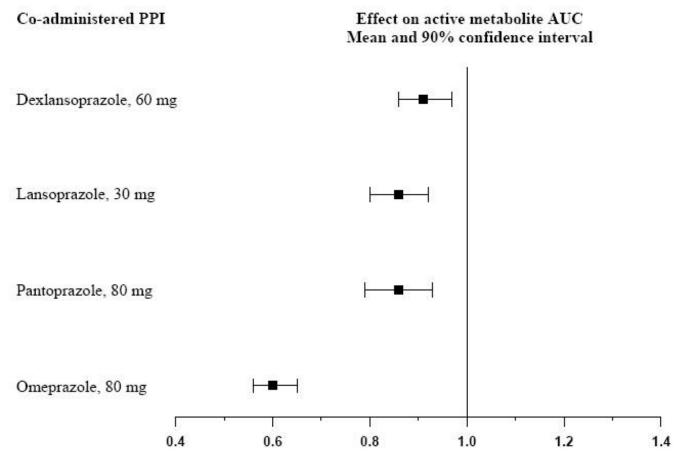
Effect of other drugs on clopidogrel

Clopidogrel is metabolized to its active metabolite in part by CYP2C19. Concomitant use of certain inhibitors of this enzyme results in reduced plasma concentrations of the active metabolite of clopidogrel and a reduction in platelet inhibition.

Proton Pump Inhibitors (PPI)

The effect of proton pump inhibitors (PPI) on the systemic exposure to the clopidogrel active metabolite following multiple doses of clopidogrel 75 mg evaluated in dedicated drug interaction studies is presented in Figure 1.

Figure 1: Exposure to Clopidogrel Active Metabolite Following Multiple Doses of Clopidogrel 75 mg Alone or with Proton Pump Inhibitors (PPIs)



Change relative to clopidogrel administered alone

Pharmacodynamic and pharmacokinetic parameters measured in these studies showed that the interaction was highest with omeprazole and least with dexlansoprazole.

Effect of clopidogrel on other drugs

In *vitro* studies have shown that the glucuronide metabolite of clopidogrel is a strong inhibitor of CYP2C8. Concomitant administration of repaglinide with clopidogrel increased the systemic exposure to repaglinide (AUC0- ∞) by 5.1-fold following the loading dose (300 mg) and by 3.9-fold on day 3 of the maintenance dose (75 mg) of clopidogrel [see **Drug Interactions (7.5)**].

12.5 Pharmacogenomics

CYP2C19 is involved in the formation of both the active metabolite and the 2-oxo-clopidogrel intermediate metabolite. Clopidogrel active metabolite pharmacokinetics and antiplatelet effects, as measured by ex vivo platelet aggregation assays, differ according to CYP2C19 genotype. Patients who are homozygous for nonfunctional alleles of the CYP2C19 gene are termed "CYP2C19 poor

metabolizers". Approximately 2% of White and 4% of Black patients are poor metabolizers; the prevalence of poor metabolism is higher in Asian patients (e.g., 14% of Chinese). Tests are available to identify patients who are CYP2C19 poor metabolizers.

A crossover study in 40 healthy subjects, 10 each in the four CYP2C19 metabolizer groups, evaluated pharmacokinetic and antiplatelet responses using 300 mg followed by 75 mg per day and 600 mg followed by 150 mg per day, each for a total of 5 days. Decreased active metabolite exposure and diminished inhibition of platelet aggregation were observed in the poor metabolizers as compared to the other groups.

Table 3: Active Metabolite Pharmacokinetics and Antiplatelet Responses by CYP2C19	
Metabolizer Status	

	Dose	Poor (n=10)	Intermediate* (n=10)	Normal (n=10)	Ultrarapid† (n=10)
Cmax (ng/mL)	300 mg (24 h)	11 (4)	23 (11)	32 (21)	24 (10)
	600 mg (24 h)	17 (6)	39 (23)	44 (27)	36 (13)
	75 mg (Day 5)	4 (1)	12 (5)	13 (7)	12 (6)
	150 mg (Day 5)	7 (2)	18 (7)	19 (5)	16 (9)
IPA (%) ††	300 mg (24 h)	24 (26)	37 (21)	39 (28)	40 (21)
	600 mg (24 h)	32 (25)	56 (22)	49 (23)	51 (28)
	75 mg (Day 5)	37 (23)	60 (18)	58 (19)	56 (13)
	150 mg (Day 5)	61 (14)	74 (14)	73 (9)	68 (18)
VASP-PRI (%)†††	300 mg (24 h)	91 (12)	78 (12)	68 (16)	73 (12)
	600 mg (24 h)	85 (14)	56 (26)	48 (20)	51 (20)
	75 mg (Day 5)	83 (13)	50 (16)	39 (14)	40 (9)
	150 mg (Day 5)	61 (18)	29 (11)	24 (10)	20 (10)

Values are mean (SD)

* Intermediate metabolizers have one but not two nonfunctional alleles

† Ultrarapid metabolizers have at least one gain-of-function allele

†† Inhibition of platelet aggregation with 5mcM ADP; larger value indicates greater platelet inhibition

††† Vasodilator-stimulated phosphoprotein – platelet reactivity index; smaller value indicates greater
platelet inhibition

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment Of Fertility

There was no evidence of tumorigenicity when clopidogrel was administered for 78 weeks to mice and 104 weeks to rats at dosages up to 77 mg/kg per day, which afforded plasma exposures >25 times that in humans at the recommended daily dose of 75 mg.

Clopidogrel was not genotoxic in four in vitro tests (Ames test, DNA-repair test in rat hepatocytes, gene mutation assay in Chinese hamster fibroblasts, and metaphase chromosome analysis of human lymphocytes) and in one in vivo test (micronucleus test by oral route in mice).

Clopidogrel was found to have no effect on fertility of male and female rats at oral doses up to 400 mg/kg per day (52 times the recommended human dose on a mg/m² basis).

14 CLINICAL STUDIES

14.1 Acute Coronary Syndrome

<u>CURE</u>

The CURE study included 12,562 patients with ACS without ST-elevation (UA or NSTEMI) and presenting within 24 hours of onset of the most recent episode of chest pain or symptoms consistent with ischemia. Patients were required to have either ECG changes compatible with new ischemia (without ST-elevation) or elevated cardiac enzymes or troponin I or T to at least twice the upper limit of normal.

Patients were randomized to receive clopidogrel (300-mg loading dose followed by 75 mg once daily) or placebo, and were treated for up to one year. Patients also received aspirin (75 to 325 mg once daily) and other standard therapies such as heparin. The use of GPIIb/IIIa inhibitors was not permitted for three days prior to randomization.

The patient population was largely White (82%) and included 38% women, and 52% age \geq 65 years of age. Only about 20% of patients underwent revascularization during the initial hospitalization and few underwent emergent or urgent revascularization.

The number of patients experiencing the primary outcome (CV death, MI, or stroke) was 582 (9.3%) in the clopidogrel-treated group and 719 (11.4%) in the placebo-treated group, a 20% relative risk reduction (95% CI of 10%-28%; p < 0.001) for the clopidogrel-treated group (see Table 4).

Table 4: Outcome Events in the CURE Primary Analysis

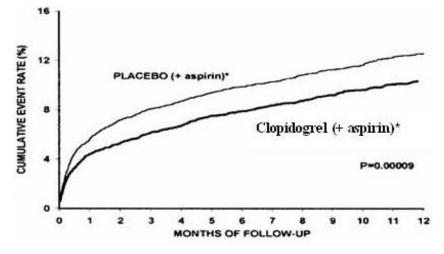
Outcome		opidogrel Placebo irin)* (+ aspirin)* 59) (n=6303)		pirin)*	Relative RiskReduction (% (95% CI)	
Primary outcome (Cardiovascular death, MI, stroke) All IndividualOutcome Events: [†]	582	(9.3%)	719	(11.4%)	20% (10.3, 27.9) P < 0.001	
CV death	318	(5.1%)	345	(5.5%)	7% (-7.7, 20.6)	
MI	324	(5.2%)	419	(6.6%)	23% (11.0, 33.4)	
Stroke	75	(1.2%)	87	(1.4%)	14%	

* Other standard therapies were used as appropriate.

[†] The individual components do not represent a breakdown of the primary and co-primary outcomes, but rather the total number of subjects experiencing an event during the course of the study.

Most of the benefit of clopidogrel occurred in the first two months, but the difference from placebo was maintained throughout the course of the trial (up to 12 months) (see Figure 2).

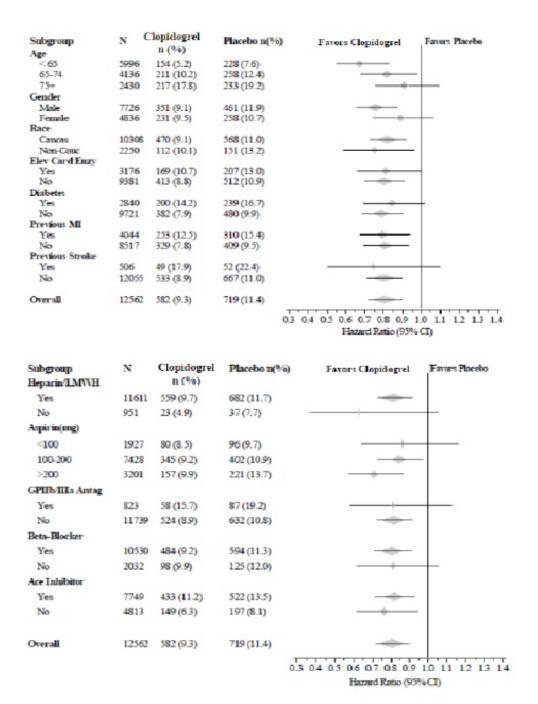
Figure 2: Cardiovas cular Death, Myocardial Infarction, and Stroke in the CURE Study



* Other standard therapies were used as appropriate.

The effect of clopidogrel did not differ significantly in various subgroups, as shown in Figure 3. The benefits associated with clopidogrel were independent of the use of other acute and long-term cardiovascular therapies, including heparin/LMWH, intravenous glycoprotein IIb/IIIa (GPIIb/IIIa) inhibitors, lipid-lowering drugs, beta-blockers, and ACE-inhibitors. The efficacy of clopidogrel was observed independently of the dose of aspirin (75 to 325 mg once daily). The use of oral anticoagulants, non-study antiplatelet drugs, and chronic NSAIDs was not allowed in CURE.

Figure 3: Hazard Ratio for Patient Baseline Characteristics and On-Study Concomitant Medications/Interventions for the CURE Study



* Other standard

therapies were used as appropriate.

The use of clopidogrel in CURE was associated with a decrease in the use of thrombolytic therapy (71 patients [1.1%] in the clopidogrel group, 126 patients [2%] in the placebo group; relative risk reduction of 43%), and GPIIb/IIIa inhibitors (369 patients [5.9%] in the clopidogrel group, 454 patients [7.2%] in the placebo group, relative risk reduction of 18%). The use of clopidogrel in CURE did not affect the number of patients treated with CABG or PCI (with or without stenting), (2253 patients [36%] in the clopidogrel group, 2324 patients [36.9%] in the placebo group; relative risk reduction of 4%).

COMMIT

In patients with STEMI, the safety and efficacy of clopidogrel were evaluated in the randomized, placebo-controlled, double-blind study, COMMIT. COMMIT included 45,852 patients presenting within 24 hours of the onset of the symptoms of myocardial infarction with supporting ECG abnormalities (i.e., ST-elevation, ST-depression or left bundle-branch block).

Patients were randomized to receive clopidogrel (75 mg once daily) or placebo, in combination with

aspirin (162 mg per day), for 28 days or until hospital discharge, whichever came first.

The primary endpoints were death from any cause and the first occurrence of re-infarction, stroke or death.

The patient population included 28% women, 58% age \geq 60 years (26% age \geq 70 years), 55% patients who received thrombolytics, 68% who received ACE-inhibitors, and only 3% who underwent PCI.

As shown in Table 5 and Figure 4 and Figure 5 below, clopidogrel significantly reduced the relative risk of death from any cause by 7% (p=0.029), and the relative risk of the combination of re-infarction, stroke or death by 9% (p=0.002).

Event		Placebo (+ aspirin) (N=22891)	Odds ratio (95% CI)	p- value
Composite endpoint:				
Death, MI, or Stroke*	2121 (9.2%)	2310 (10.1%)	0.91 (0.86, 0.97)	0.002
Death	1726 (7.5%)	1845 (8.1%)	0.93 (0.87, 0.99)	0.029
Non-fatal MI**	270 (1.2%)	330 (1.4%)	0.81 (0.69, 0.95)	0.011
Non-fatal Stroke**	127 (0.6%)	142 (0.6%)	0.89 (0.70, 1.13)	0.33

Table 5: Outcome Events in the COMMIT

* 9 patients (2 clopidogrel and 7 placebo) suffered both a non-fatal stroke and a non-fatal MI.

** Non-fatal MI and non-fatal stroke exclude patients who died (of any cause).

Figure 4: Cumulative Event Rates for Death in the COMMIT Study *

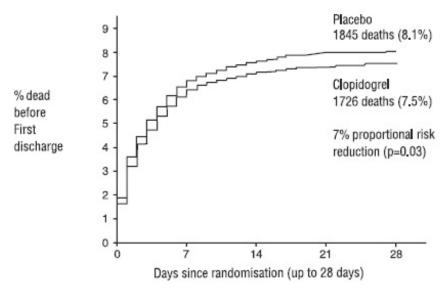
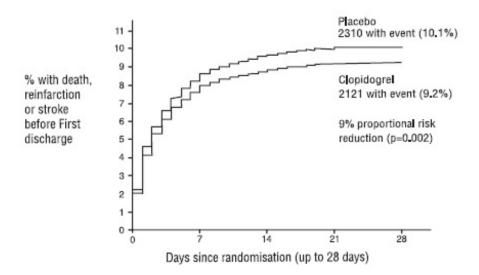


Figure 5: Cumulative Event Rates for the Combined Endpoint Re-Infarction, Stroke or Death in the COMMIT Study*



The effect of clopidogrel did not differ significantly in various pre-specified subgroups as shown in Figure 6. The effect was also similar in non-prespecified subgroups including those based on infarct location, Killip class or prior MI history (see Figure 7). Such subgroup analyses should be interpreted cautiously.

Figure 6: Effects of Adding Clopidogrel to Aspirin on the Combined Primary Endpoint across
Baseline and Concomitant Medication Subgroups for the COMMIT Study

Subgroup	N G	opidogrel n (%)	Placebo n(%)	Favors Clepidogrel Favors Placebo
Gender				
Male	33093	1274 (7.7)	1416 (8.6)	
Female	12759	847 (13.3)	894 (14.0)	
Age at entry (years)				
< 60	19087	485 (5.0)	512 (5.4)	
60-69	14831	745 (10.1)	835 (11.2)	
70+	11934	\$91 (14.9)	963 (16.2)	
Hours since onset				
<6	15452	709 (9.2)	\$30 (10.8)	
6 to <13	15072	738 (9.8)	808 (10.8)	
13 to 24	15328	674 (8.8)	672 (8.8)	<u> </u>
SEP(umnHg)				
< 120	15399	797 (10.4)	\$92 (11.6)	+
120-139	16200	693 (8.6)	770 (9.5)	
140-159	9020	388 (8.5)	399 (8.9)	+
160+	5233	243 (9.2)	249 (9.6)	+
Heart rate (bpm)				
< 70	10137	268 (5.3)	315 (6.2)	
70-89	22262	898 (8.1)	952 (8.5)	-
90-109	10209	632 (12.3)	683 (13.5)	+
110+	3244	323 (19.9)	360 (22.2)	
Fibrinolytic agent given				
Yes	22794	1003 (8.8)	1122 (9.9)	
No	23058	1118 (9.7)	1188 (10.3)	- +
Overall*	45852	2121 (9.2)	2310 (10.1)	-
				6 0.7 0.8 0.9 1.0 1.1 1.2
				Odds Ratio (99% CI)

* CI is 95% for Overall row only

14.2 Recent Myocardial Infarction, Recent Stroke, or Established Peripheral Arterial Disease <u>CAPRIE</u>

The CAPRIE trial was a 19,185-patient, 304-center, international, randomized, double-blind, parallelgroup study comparing clopidogrel (75 mg daily) to aspirin (325 mg daily). The patients randomized had: 1) recent histories of myocardial infarction (within 35 days); 2) recent histories of ischemic stroke (within 6 months) with at least a week of residual neurological signs; or 3) established peripheral arterial disease. Patients received randomized treatment for an average of 1.6 years (maximum of 3 years). The trial's primary outcome was the time to first occurrence of new ischemic stroke (fatal or not), new myocardial infarction (fatal or not), or other vascular death. Deaths not easily attributable to nonvascular causes were all classified as vascular.

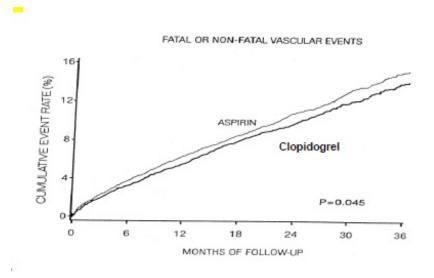
	clopid	logrel aspir	in
Patients	9599	9586	
Ischemic stroke (fatal or not	t)438	(4.6%) 461	(4.8%)
MI (fatal or not)	275	(2.9%) 333	(3.5%)
Other vascular death	226	(2.4%) 226	(2.4%)
Total	939	(9.8%)1020	(10.6%)

Table 6: Outcome Events in the CAPRIE Primary Analysis

As shown in Table 6, clopidogrel was associated with a lower incidence of outcome events, primarily MI. The overall relative risk reduction (9.8% vs. 10.6%) was 8.7%, p=0.045. Similar results were obtained when all-cause mortality and all-cause strokes were counted instead of vascular mortality and ischemic strokes (risk reduction 6.9%). In patients who survived an on-study stroke or myocardial infarction, the incidence of subsequent events was lower in the clopidogrel group.

The curves showing the overall event rate are shown in Figure 8. The event curves separated early and continued to diverge over the 3-year follow-up period.

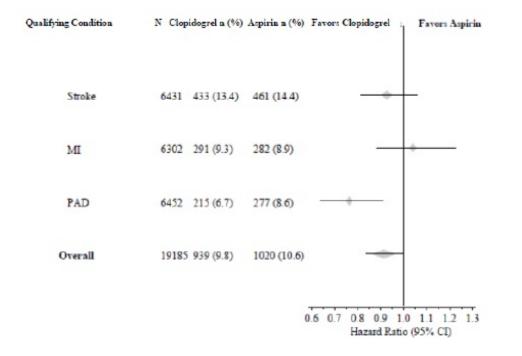
Figure 7: Fatal or Non-Fatal Vascular Events in the CAPRIE Study



The statistical significance favoring clopidogrel over aspirin was marginal (p=0.045). However, because aspirin is itself effective in reducing cardiovascular events in patients with recent myocardial infarction or stroke, the effect of clopidogrel is substantial.

The CAPRIE trial enrolled a population that had recent MI, recent stroke, or PAD. The efficacy of clopidogrel relative to aspirin was heterogeneous across these subgroups (p=0.043) (see Figure 8). Nonetheless this difference may be a chance occurrence because the CAPRIE trial was not designed to evaluate the relative benefit of clopidogrel over aspirin in the individual patient subgroups. The benefit was most apparent in patients who were enrolled because of peripheral arterial disease and less apparent in stroke patients. In patients who were enrolled in the trial on the sole basis of a recent myocardial infarction, clopidogrel was not numerically superior to aspirin.

Figure 8: Hazard Ratio and 95% CI by Baseline Subgroups in the CAPRIE Study



14.3 No Demonstrated Benefit of Clopidogrel plus Aspirin in Patients with Multiple Risk Factors or Established Vascular Disease

CHARISMA

The CHARISMA trial was a 15,603 subject, randomized, double-blind, parallel group study comparing clopidogrel (75 mg daily) to placebo for prevention of ischemic events in patients with vascular disease or multiple risk factors for atherosclerosis. All subjects were treated with aspirin 75 to 162 mg daily. The mean duration of treatment was 23 months. The study failed to demonstrate a reduction in the occurrence of the primary endpoint, a composite of CV death, MI, or stroke. A total of 534 (6.9%) patients in the clopidogrel group versus 573 (7.4%) patients in the placebo group experienced a primary outcome event (p=0.22). Bleeding of all severities was more common in the subjects randomized to clopidogrel.

16 HOW SUPPLIED/STORAGE AND HANDLING

Clopidogrel tablets USP, 75 mg are white, film coated, round, biconvex tablets debossed with "R" on one side and "196" on other side and are supplied in bottles of 30, 90, 100 and 500.

NDC 67046-099-07 blisterpacks of 7

NDC 67046-099-14 blisterpacks of 14

NDC 67046-099-15 blisterpacks of 15

NDC 67046-099-20 blisterpacks of 20

NDC 67046-099-21 blisterpacks of 21

NDC 67046-099-28 blisterpacks of 28

NDC 67046-099-30 blisterpacks of 30

NDC 67046-099-60 blisterpacks of 60

Preserve in well-closed containers. Store at 20°-25°C (68°-77°F) [See USP Controlled Room Temperature]

17 PATIENT COUNSELING INFORMATION

Advise patients to read FDA approved patient labeling (Medication Guide).

Discontinuation Advise patients not to discontinue clopidogrel without first discussing it with the health care provider who prescribed it [see **Warnings and Precautions (5.3)**].

Bleeding Advise patients that they:

- will bruise and bleed more easily
- will take longer than usual to stop bleeding

• must report any unanticipated, prolonged, or excessive bleeding, or blood in their stool or urine [**see Warnings and Precautions (5.2)**].

Thrombotic Thrombocytopenic Purpura Instruct patients to get prompt medical attention if they experience symptoms of TTP that cannot otherwise be explained [see **Warnings and Precautions (5.4)**].

Invasive Procedures Advise patients to inform physicians and dentists that they are taking clopidogrel before any surgery or dental procedure [see **Warnings and Precautions (**5.2, 5.3**)**].

Proton Pump Inhibitors Advise patients not to take omeprazole or esomeprazole while taking clopidogrel.

Dexlansoprazole, lansoprazole and pantoprazole had less pronounced effects on the antiplatelet activity of clopidogrel than did omeprazole or esomeprazole [see **Drug Interactions (7.1)**].

Medication Guide

Clopidogrel Tablets, USP

(kloe pid' oh grel)

Read this Medication Guide before you start taking clopidogrel tablets and each time you get a refill. There may be new information. This Medication Guide does not take the place of talking with your doctor about your medical condition or your treatment.

What is the most important information I should know about clopidogrel tablets?

1. Clopidogrel tablets may not work as well in people who:

- have certain genetic factors that affect how the body breaks down clopidogrel tablets. Your doctor may do genetic tests to make sure clopidogrel tablets are right for you.
- take certain medicines, especially omeprazole (Prilosec[®]) or esomeprazole (Nexium[®]). Your doctor may change the medicine you take for stomach acid problems while you take clopidogrel tablets.

2. **Clopidogrel tablets ctan cause bleeding which can be serious and can sometimes lead to death.** Clopidogrel tablets are blood thinner medicine that lowers the chance of blood clots forming in your body. While you take clopidogrel tablets:

- you may bruise and bleed more easily
- you are more likely to have nose bleeds
- it will take longer for any bleeding to stop

Call your doctor right away if you have any of these signs or symptoms of bleeding:

- unexpected bleeding or bleeding that lasts a long time
- blood in your urine (pink, red or brown urine)
- red or black stools (looks like tar)
- bruises that happen without a known cause or get larger
- cough up blood or blood clots

• vomit blood or your vomit looks like coffee grounds

Do not stop taking clopidogrel tablets without talking to the doctor who prescribes it for you. People who stop taking clopidogrel tablets too soon have a higher risk of having a heart attack or dying. If you must stop clopidogrel tablets because of bleeding, your risk of a heart attack may be higher.

What are clopidogrel tablets?

Clopidogrel tablets are prescription medicine used to treat people who have any of the following:

- chest pain due to heart problems
- poor circulation in their legs (peripheral arterial disease)
- a heart attack a stroke

Clopidogrel tablets are used alone or with aspirin to lower your chance of having another serious problem with your heart or blood vessels such as heart attack, stroke, or blood clot that can lead to death.

Platelets are blood cells that help your blood clot normally. Clopidogrel tablets helps to prevent platelets from sticking together and forming a clot that can block an artery.

It is not known if clopidogrel tablets are safe and effective in children.

Who should not take clopidogrel tablets?

Do not take clopidogrel tablets if you:

- currently have a condition that causes bleeding, such as a stomach ulcer
- are allergic to clopidogrel tablets or other ingredients in clopidogrel tablets. See the end of this leaflet for a complete list of ingredients in clopidogrel tablets.

What should I tell my doctor before taking clopidogrel tablets?

Before you take clopidogrel tablets, tell your doctor if you:

- have a history of bowel (gastrointestinal) or stomach ulcers
- have a history of bleeding problems
- plan to have surgery or a dental procedure. See " How should I take clopidogrel tablets?"
- are pregnant or plan to become pregnant. It is not known if clopidogrel tablets will harm your unborn baby
- are breastfeeding or plan to breastfeed. It is not known if clopidogrel passes into your breast milk. You and your doctor should decide if you will take clopidogrel tablets or breastfeed. You should not do both without talking to your doctor
- have had an allergy or reaction to any medicine used to treat your disease.

Tell all of your doctors and your dentist that you are taking clopidogrel tablets. They should talk to the doctor who prescribed clopidogrel tablets for you before you have any surgery or invasive procedure.

Tell your doctor about all the medicines you take, including prescription, non-prescription medicines, vitamins and herbal supplements.

Clopidogrel tablets may affect the way other medicines work, and other medicines may affect how clopidogrel tablets works. See " **What is the most important information I should know about clopidogrel tablets**?"

Clopidogrel tablets may increase blood levels of other medicines such as repaglinide (Prandin[®]).

Taking clopidogrel tablets with certain other medicines may increase your risk of bleeding. **Especially tell your doctor if you take**:

- aspirin, especially if you have had a stroke. Always talk to your doctor about whether you should take aspirin along with clopidogrel tablets to treat your condition.
- Non-steroidal anti-inflammatory drugs (NSAIDs). Ask your doctor or pharmacist for a list of

NSAID medicines if you are not sure.

- warfarin (Coumadin [®], Jantoven [®])
- selective serotonin reuptake inhibitors (SSRIs) and serotonin norepinephrine reuptake inhibitors (SNRIs). Ask your doctor or pharmacist for a list of SSRI or SNRI medicines if you are not sure.

Know the medicines you take. Keep a list of them to show your doctor or pharmacist when you get a new medicine.

How should I take clopidogrel tablets?

- Take clopidogrel tablets exactly as your doctor tells you.
- Do not change your dose or stop taking clopidogrel tablets without talking to your doctor first. Stopping clopidogrel tablets may increase your risk of heart attack or stroke.
- Take clopidogrel tablets with aspirin as instructed by your doctor.
- If you miss a dose, take clopidogrel tablets as soon as you remember. If it is almost time for your next dose, skip the missed dose. Take the next dose at your regular time. Do not take 2 doses of clopidogrel tablets at the same time unless your doctor tells you to.
- If you take too much clopidogrel tablets, call your doctor or go to the nearest emergency room right away.
- Talk with your doctor about stopping your clopidogrel tablets before you have surgery. Your doctor may tell you to stop taking clopidogrel tablets at least 5 days before you have surgery to avoid excessive bleeding during surgery.

What are the possible side effects of clopidogrel tablets?

Clopidogrel tablets can cause serious side effects including:

- See "What is the most important information I should know about clopidogrel tablets?"
- A blood clotting problem called Thrombotic Thrombocytopenic Purpura (TTP). TTP can happen with clopidogrel tablets, sometimes after a short time (less than 2 weeks). TTP is a blood clotting problem where blood clots form in blood vessels; and can happen anywhere in the body. TTP needs to be treated in a hospital right away, because it may cause death. Get medical help right away if you have any of these symptoms and they can not be explained by another medical condition:
- purplish spots (called purpura) on the skin or in the mouth (mucous membranes) due to bleeding under the skin
- your skin or the whites of your eyes are yellow (jaundice)
- you feel tired or weak
- your skin looks very pale
- fever
- fast heart rate or feeling short of breath
- headache
- speech changes
- confusion
- coma
- stroke
- seizure
- low amount of urine, or urine that is pink or has blood in it
- stomach area (abdominal) pain
- nausea, vomiting, or diarrhea
- vision changes

Tell your doctor if you have any side effect that bothers you or that does not go away. Tell your doctor if you develop an allergic reaction including skin reactions while taking clopidogrel tablets.

These are not all the possible side effects of clopidogrel tablets. For more information, ask your

doctor or pharmacist.

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

How should I store clopidogrel tablets?

• Store clopidogrel tablets at 20°-25°C (68°-77°F).

Keep clopidogrel tablets and all medicines out of the reach of children.

General information about clopidogrel tablets

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

This Medication Guide summarizes the most important information about clopidogrel tablets. If you would like more information, talk to your doctor. Ask your doctor or pharmacist for information about clopidogrel tablets that was written for healthcare professionals.

For more information, call 1-888-375-3784.

What are the ingredients in clopidogrel tablets?

Active ingredient: clopidogrel bisulfate

Inactive ingredients:

Tablet: colloidal silicon dioxide, croscarmellose sodium, magnesium stearate, mannitol and microcrystalline cellulose

Film coating: hypromellose 2910-5cP, polyethylene glycol 400 and titanium dioxide

This Medication Guide has been approved by the U.S. Food and Drug Administration.

To reorder additional medication guides, please contact Dr. Reddy's Customer Service at 1-866-733-3952.

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Bachupally - 500 090 INDIA

or

Manufactured by:

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Revised: 0717

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Repackaged by:

Contract Pharmacy Services-PA 125 Titus Ave Suite 200 Warrington, PA 18976 USA

Rev: Original—2017.09.21—NJW

CLOPIDOGREL
75MG TAB #30
355111196051
Rx Only
LOT: C202204
PILL ID: R 196
EXP:05/22/13
DR. REDDY'S
Packaged By: Contract Pharmacy Services-PA

Packaged By: Contract Pharmacy Services-PA 125 Titus Ave, Suite #200, Warrington, PA 18976 Usual Adult Dosage:See package insert.



Store at 20-25°C (68-77°F) [See USP Controlled Room Temperature]

Each tablet contains: 97.875 mg of clopidogrel bisulfate USP equivalent to 75 mg of clopidogrel base.

CPS NDC: 67046-099-30

Product Information Product Type HUMAN PRESCRIPTION DRUG Route of Administration ORAL ORAL ORAL Active Ingredient/Active Moieeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee	CLOPIDOGREL BISU				
Product Type HUMAN PRESCRIPTION DRUG Item Code (Source) Disciple Subscription Route of Administration ORAL Subscription Subscription Subscription Subscription Active Ingredient/Active OU Terdient Name Basis of Sum (Source) Storeg CADPIDOGREL BISULFATE (UNI: %) "HTP27) (CLO PIDOGREL - W / MTP27) CLO PIDOGREL SUS Storeg Storeg SLICON DIOXIDE (UNI: ET17Z6XBU Tigredient Name Storeg Storeg Storeg SLICON DIOXIDE (UNI: ET17Z6XBU/ W / MTP27) Tigredient Name Storeg Storeg Storeg SLICON DIOXIDE (UNI: ET17Z6XBU/ W / MTP27) Tigredient Name Storeg Storeg Storeg SLICON DIOXIDE (UNI: ET17Z6XBU/ W / MTP27) Tigredient Name Storeg Storeg Storeg MAGNESIUM STEARATE (UNI: %) Tigredient Name Storeg Storeg Storeg Storeg MANNTOL (UNI: 30WL53LGA) Tigredient Name Storeg Storeg Storeg Storeg Storeg GELULIOSE, MICROCRYSTALLINE (WI: OPIR3LDGU) Tigredient Name Storeg Storeg Storeg Storeg GELUICOSE, Storeg Storeg Storeg St	clopidogrel bisulfate tablet, film	coated			
Product Type HUMAN PRESCRIPTION DRUG Item Code (Source) Ditter Status Route of Administration ORAL Subsective Subsective </th <th></th> <th></th> <th></th> <th></th> <th></th>					
Route of Administration ORAL Active Ingredient/Active Moie Basis of Streng Score Basis of Streng CLOPIDO GREL BISULFATE (UNIE 08/F9HTP27) (CLOPIDO GREL - UNIE A74586SNO7) CLOPIDO GREL BISULFATE (UNIE 08/F9HTP27) (CLOPIDO GREL - UNIE A74586SNO7) CLOPIDO GREL BISULFATE (UNIE 08/F9HTP27) (CLOPIDO GREL - UNIE A74586SNO7) CLOPIDO GREL BISULFATE (UNIE 08/F9HTP27) (CLOPIDO GREL - UNIE A74586SNO7) CLOPIDO GREL BISULFATE (UNIE 08/F9HTP27) (CLOPIDO GREL - UNIE A74586SNO7) CLOPIDO GREL - UNIE 075 mg SILICON DIO XIDE (UNIE ETJ7Z6XBU) Streng SILICON DIO XIDE (UNIE ETJ7Z6XBU) Streng SILICON DIO XIDE (UNIE ETJ7Z6XBU) Streng MAGNESIUM STEARATE (UNIE 7063B) Streng MAGNESIUM STEARATE (UNIE 70630) Streng MANNITOL (UNIE 30WL53L36A) Streng CELLULOSE, MICROCRYSTALLINE (UNIE OPIR32D61U) Streng HYPROMELLOSE 2910 (5 MPA.S) (UNIE R75537T074) Streng POLYETHYLENE GLYCOL 400 (UNIE B697894SGQ) Streng	Product Information				
Active Ingredient/Active Moiety Basis of Strength Streng CLOPIDOGREL BISULFATE (UNII: 08179HTP27) (CLOPIDOGREL - UNII:A74586SNO7) CLOPIDOGREL 75 mg Inactive Ingredients Inactive Ingredients SILICON DIO XIDE (UNII: ETJ7Z6 XBU4) Streng SILICON DIO XIDE (UNII: ETJ7Z6 XBU4) Strength CROSCARMELLOSE SODIUM (UNII: M280 LIHH48) Strength MAGNESIUM STEARATE (UNII: 70097M6 I30) Image: Strength Image: Strength MANNITOL (UNII: 30WL53L36A) Image: Strength Image: Strength CELLULOSE, MICROCRYSTALLINE (UNII: 0PIR32D6 1U) Image: Strength Strength POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)	Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:67046-099(ND	C:55111-196)
Ingredient Name Basis of Strength Strength CLOPIDO GREL BISULFATE (UNIE 08179HTP27) (CLOPIDOGREL - UNIEA74586SNO7) CLOPIDOGREL 0 75 mg CLOPIDO GREL BISULFATE (UNIE 08179HTP27) (CLOPIDOGREL - UNIEA74586SNO7) CLOPIDOGREL 0 75 mg Inactive Ingredients Inactive Ingredients Ingredient Name Strength SILICON DIO XIDE (UNIE ETJ7Z6XBU4) Strength CROSCARMELLOSE SODIUM (UNIE M280L1HH48) Strength MAGNESIUM STEARATE (UNII: 70097M6130) Strength Strength MANNITOL (UNII: 30WL53L36A) Strength Strength CELLULOSE, MICROCRYSTALLINE (UNII: OPIR32D61U) Strength Strength HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4) Strength Strength POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ) Strength Strength	Route of Administration	ORAL			
Ingredient Name Basis of Strength Strength CLOPIDO GREL BISULFATE (UNIE 08179HTP27) (CLOPIDOGREL - UNIEA74586SNO7) CLOPIDOGREL 0 75 mg CLOPIDO GREL BISULFATE (UNIE 08179HTP27) (CLOPIDOGREL - UNIEA74586SNO7) CLOPIDOGREL 0 75 mg Inactive Ingredients Inactive Ingredients Ingredient Name Strength SILICON DIO XIDE (UNIE ETJ7Z6XBU4) Strength CROSCARMELLOSE SODIUM (UNIE M280L1HH48) Strength MAGNESIUM STEARATE (UNII: 70097M6130) Strength Strength MANNITOL (UNII: 30WL53L36A) Strength Strength CELLULOSE, MICROCRYSTALLINE (UNII: OPIR32D61U) Strength Strength HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4) Strength Strength POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ) Strength Strength					
Ingredient Name Basis of Strength Strength CLOPIDO GREL BISULFATE (UNIE 08179HTP27) (CLOPIDOGREL - UNIEA74586SNO7) CLOPIDOGREL 0 75 mg CLOPIDO GREL BISULFATE (UNIE 08179HTP27) (CLOPIDOGREL - UNIEA74586SNO7) CLOPIDOGREL 0 75 mg Inactive Ingredients Inactive Ingredients Ingredient Name Strength SILICON DIO XIDE (UNIE ETJ7Z6XBU4) Strength CROSCARMELLOSE SODIUM (UNIE M280L1HH48) Strength MAGNESIUM STEARATE (UNII: 70097M6130) Strength Strength MANNITOL (UNII: 30WL53L36A) Strength Strength CELLULOSE, MICROCRYSTALLINE (UNII: OPIR32D61U) Strength Strength HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4) Strength Strength POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ) Strength Strength					
CLOPIDO GREL BISULFATE (UNII: 08179 HTP27) (CLOPIDO GREL - UNII:A74586SNO7) CLOPIDO GREL / 75 mg Inactive Ingredients Ingredient Name Strength Ingredient Name SILICON DIO XIDE (UNII: ETJ7Z6XBU4) Strength CROSCARMELLOSE SODIUM (UNII: M280L1HH48) Strength MAGNESIUM STEARATE (UNII: 70097M6130) Image: Strength Strength MANNITOL (UNII: 30WL53L36A) Image: Strength Image: Strength CELLULOSE, MICRO CRYSTALLINE (UNII: 0P1R32D61U) Image: Strength Image: Strength HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4) Image: Strength Image: Strength POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ) Image: Strength Image: Strength	Active Ingredient/Active M	Ioiety			
Inactive IngredientsStrengthIngredient NameStrengthSILICON DIO XIDE (UNII: ETJ7Z6 XBU4)CRO SCARMELLOSE SODIUM (UNII: M280L1HH48)MAGNESIUM STEARATE (UNII: 70097M6I30)MAGNESIUM STEARATE (UNII: 70097M6I30)MANNITOL (UNII: 30WL53L36A)CELLULOSE, MICRO CRYSTALLINE (UNII: OP1R32D6 1U)HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4)POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)					
Ingredient NameStrengthSILICON DIO XIDE (UNII: ETJ7Z6 XBU4)CROSCARMELLOSE SODIUM (UNII: M28 OL 1HH48)MAGNESIUM STEARATE (UNII: 70097M6130)MANNITOL (UNII: 30WL53L36A)CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4)POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)		Ingredient Name		Basis of Strength	Strength
Ingredient NameStrengthSILICON DIO XIDE (UNII: ETJ7Z6 XBU4)CROSCARMELLOSE SODIUM (UNII: M28 OL1HH48)MAGNESIUM STEARATE (UNII: 70097M6I30)MANNITOL (UNII: 30WL53L36A)CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4)POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)	CLOPIDOGREL BISULFATE (UN	0	NII:A74586SNO7)		J
Ingredient NameStrengthSILICON DIO XIDE (UNII: ETJ7Z6 XBU4)CROSCARMELLOSE SODIUM (UNII: M28 OL 1HH48)MAGNESIUM STEARATE (UNII: 70097M6130)MANNITOL (UNII: 30WL53L36A)CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4)POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)	CLOPIDOGREL BISULFATE (UN	0	NII:A74586SNO7)		0
SILICON DIO XIDE (UNII: ETJ7Z6 XBU4)CSILICON DIO XIDE (UNII: ETJ7Z6 XBU4)CCROSCARMELLOSE SODIUM (UNII: M280L1HH48)CMAGNESIUM STEARATE (UNII: 70097M6 I30)CMANNITOL (UNII: 30WL53L36A)CCELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D6 1U)CHYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4)CPOLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)C		0	NII:A74586SNO7)		U
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)6MAGNESIUM STEARATE (UNII: 70097M6130)6MANNITOL (UNII: 30WL53L36A)6CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)6HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4)6POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)6		0	NII:A74586SNO7)		U
MAGNESIUM STEARATE (UNII: 70097M6 B0)Image: Stear Ste		II: 08179HTP27) (CLOPIDOGREL - UN	NII:A74586SNO7)	CLOPIDOGREL	75 mg
MANNITOL (UNII: 30WL53L36A)CELLULOSE, MICROCRYSTALLINE (UNII: 0P1R32D61U)HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4)Centre of the second	Inactive Ingredients	II: 08179HTP27) (CLOPIDOGREL - UN Ingredient Name	NII:A74586SNO7)	CLOPIDOGREL	75 mg
CELLULOSE, MICRO CRYSTALLINE (UNII: OP1R32D61U)HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4)POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)	Inactive Ingredients SILICON DIO XIDE (UNII: ETJ7Z63	II: 08179HTP27) (CLOPIDOGREL - UN Ingredient Name (BU4)	NII:A74586SNO7)	CLOPIDOGREL	75 mg
HYPROMELLOSE 2910 (5 MPA.S) (UNII: R75537T0T4) POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)	Inactive Ingredients SILICON DIOXIDE (UNII: ETJ7Z63 CROSCARMELLOSE SODIUM (U	II: 08179HTP27) (CLOPIDOGREL - UN Ingredient Name (BU4) NII: M28OL1HH48)	NII:A74586SNO7)	CLOPIDOGREL	75 mg
POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)	Inactive Ingredients SILICON DIO XIDE (UNII: ETJ7Z63 CROSCARMELLOSE SODIUM (U MAGNESIUM STEARATE (UNII: 70	II: 08179HTP27) (CLOPIDOGREL - UN Ingredient Name (BU4) NII: M28OL1HH48)	NII:A74586SNO7)	CLOPIDOGREL	75 mg
	Inactive Ingredients SILICON DIOXIDE (UNII: ETJ7Z63 CROSCARMELLOSE SODIUM (U MAGNESIUM STEARATE (UNII: 70 MANNITOL (UNII: 30WL53L36A)	II: 08179HTP27) (CLOPIDOGREL - UN Ingredient Name (SBU4) NII: M28OL1HH48) 0097M6130)	NII:A74586SNO7)	CLOPIDOGREL	75 mg
TITANIUM DIO XIDE (UNII: 15FIX9 V2JP)	Inactive Ingredients SILICON DIO XIDE (UNII: ETJ7Z62 CROSCARMELLOSE SODIUM (U MAGNESIUM STEARATE (UNII: 70 MANNITOL (UNII: 30WL53L36A) CELLULOSE, MICROCRYSTALL	II: 08179HTP27) (CLOPIDOGREL - UN Ingredient Name (BU4) NII: M28OL1HH48) 0097M6130) INE (UNII: OP1R32D61U)	NII:A74586SNO7)	CLOPIDOGREL	75 mg
	Inactive Ingredients SILICON DIO XIDE (UNII: ETJ7Z63 CROSCARMELLOSE SODIUM (U MAGNESIUM STEARATE (UNII: 70 MANNITOL (UNII: 30WL53L36A) CELLULOSE, MICROCRYSTALL HYPROMELLOSE 2910 (5 MPA.S	II: 08179HTP27) (CLOPIDOGREL - UN Ingredient Name (BU4) NII: M28OL1HH48) 0097M6130) INE (UNII: OP1R32D61U)) (UNII: R75537T0T4)	NII:A74586SNO7)	CLOPIDOGREL	75 mg

Product Characteristics						
Color whi		white	Score		no score	
Shape ROUND		Size		11mm		
Flavor		Imprint Code		R;196		
Contains						
Packaging						
# Item Code		Package Descr	ription	Marketing Start Date	Marketing End Date	
1 NDC:67046-099-30	30 in 1 B Product	30 in 1 BLISTER PACK; Type 0: Not a Combination Product		09/21/2017		
2 NDC:67046-099-07	7 in 1 BL	ISTER PACK; Type 0: Not	t a Combination Product	09/21/2017		
3 NDC:67046-099-14	14 in 1 BI	LISTER PACK; Type 0: No	ot a Combination Produc	t 09/21/2017		
4 NDC:67046-099-15	15 in 1 BI	LISTER PACK; Type 0: No	ot a Combination Produc	ct 09/21/2017		
5 NDC:67046-099-20	20 in 1 BLISTER PACK; Type 0: Not a Combination Product		09/21/2017			
6 NDC:67046-099-21	21 in 1 BI	21 in 1 BLISTER PACK; Type 0: Not a Combination Product		21/2017		
7 NDC:67046-099-28	28 in 1 B Product	28 in 1 BLISTER PACK; Type 0: Not a Combination Product		09/21/2017		
8 NDC:67046-099- 60	60 in 1 BLISTER PACK; Type 0: Not a Combination Product		09/21/2017			
Marketing Information						
Marketing Category	у Арр	lication Number or Mo	onograph Citation	Marketing Start Date	e Marketing End Date	
ANDA	ANDA	076273	(9/21/2017		

Labeler - Contract Pharmacy Services-PA (945429777)

Establishment						
Name	Address	ID/FEI	Business Operations			
Coupler Enterprises		945429777	repack(67046-099)			

Revised: 9/2017

Contract Pharmacy Services-PA