# CLAVIX 75 mg Tablets (Clopidogrel Tablets USP 75 mg)

Name and strength of active ingredient Clopidogrel Bisulfate USP (Form I) equivalent to Clopidogrel 75 mg

## Product Description

Pink coloured, round, biconvex, film coated tablets, debossed with "Cl" on one side and plain on other side.

## Pharmacodynamics & Pharmacokinetics

Pharmacodynamics & Pharmacokinetics Pharmacodynamics properties Clopidgrel is a prodrug that is metabolized by CYP450 enzymes to the active thiol derivative. The active thiol derivative, selectively and irreversibly binds to the adenosine tiphosphate (ADP) P2Y12 receptor on platelets. This prevents ADP from binding and activating the glucoprotein GPIIb/IIIa complex, which is necessary for platelet aggregation because they are dependent on platelet activation, which is mediated by ADP. The action is irreversible for the lifespan of the platelet (7 to 10 days). Platelet aggregation induced by agonists other than ADP is also inhibited by blocking the amplification of platelet activation can be seen 2 hours after single prad doses of clopidogrel. Repeated doses of 75 mg clopidogrel per day inhibition table tadgregation and bleeding time gradually return to baseline values after preatment is discontinued, generally in about 5 days.

## Pharmacokinetic properties

Absorption Based on urinary excretion of metabolites, after single and multiple oral doses of cipolidogrel 75 mg/day, absorption is rapid and is at least 50% (dose-limited). Food has no effect on the absorption of clopidogrel.

Distribution Clopidogrel and the carboxylic acid derivative (metabolite) are highly protein bound.

### Metabolism

Metabolism Clopidogrei is extensively metabolised by the liver, mainly to the inactive carboxylic acid derivative (85% of circulating metabolites). Clopidogrel is a prodrug that is oxidized by the cytochrome P450 system into an intermediary metabolite, 2-ox-clopidogrel, that is subsequently hydrolyzed to the active thicl metabolite. The oxidative step is regulated primarily by Cytochrome P450 ISOENZYMES 2B6, 3A4, 1A1, 1A2 and 2C19.

### Excretion

Colopidogrel and its metabolites are excreted in urine and in faeces; about 50% of an oral dose is recovered from the urine and about 46% from the faeces. After a single oral dose of 75 mg, clopidogrel has a half-life of approximately 6 hours. The elimination half-life of the main circulating (inactive) metabolite was 8 hours after single and repeated administration.

### Indication

Prevention of atherothrombotic events

- Prevention of atherothrombotic events
  Clopidogrel is indicated in:
  Adult patients suffering from myocardial infarction (from a few days until less than 35 days), ischaemic stroke (from 7 days until less than 6 months) or established peripheral arterial disease.
  Adult patients suffering from acute coronary syndrome:

  Non-ST segment elevation, including patients undergoing a stent placement following percutaneous coronary intervention.
  ST segment elevation acute myocardial infarction, in combination with acetylsalicylate acid (ASA) in medically treated patients eligible for thrombolytic therapy.

Prevention of atherothrombotic and thromboembolic events in atrial fibrillation In adult patients with atrial fibrillation who have at least one risk factor for vascular events, are not suitable for treatment with Vitamin K antagonists (VKA) and who have a low bleeding risk, clopidogrel is indicated in combination with ASA for the prevention of atherothrombotic and thromboembolic events, including stroke.

### Recommended Dosage Adults and elde

Clopidogrel should be given as a single daily dose of 75 mg.

## In patients suffering from acute coronary syndrome

- ents suffering from acute coronary syndrome: Non-ST segment elevation acute coronary syndrome (unstable angina or non-Q-wave myocardial infarction): clopidgrel treatment should be initiated with a single 300-mg loading dose and then continued at 75 mg once a day (with acetylsalicylic acid (ASA) 75 mg-325 mg daily). Since higher doses of ASA were associated with higher bleeding risk it is recommended that the dose of ASA should not be higher than 100 mg. The optimal duration of treatment has not been formally established. Clinical trial data support use up to 12 months, and the maximum benefit was seen at 3 months. ST segment elevation acute myocardial infarction: clopidogrel should be given as a single daily dose of 75 mg initiated with a 300-mg loading dose in combination with ASA and with or without thrombolytics. For patients over 75 years of age clopidogrel should be initiated without a loading dose.

Combined therapy should be started as early as possible after symptoms start and continued for at least four weeks. The benefit of the combination of clopidogrel with ASA beyond four weeks has not been studied in this setting. In patients with atrial fibrillation, clopidogrel should be given as a single daily dose of 75 mg. ASA (75-100 mg daily) should be initiated and continued in combination with clopidogrel. If a dose is missed:

## Within less than 12 hours after regular scheduled time: patients should take the dose immediately and then take the next dose at the regular scheduled time. For more than 12 hours: patients should take the next dose at the regular scheduled time and should not double the dose. .

Paediatric population Clopidogrel should not be used in children because of efficacy concerns

Renal impairment Therapeutic experience is limited in patients with renal impairment.

Henatic impairment

Therapeutic experience is limited in patients with moderate hepatic disease who may have bleeding diatheses.

Route of Administration For oral use. It may be given with or without food.

ntraindications Hypersensitivity to clopidogrel or to any of the excipients Severe hepatic impairment. Active pathological bleeding such as peptic ulcer or intracranial haemorrhage

## Warnings & Precautions

Warnings & Precautions Bleeding and haematological disorders Due to the risk of bleeding and haematological adverse reactions, blood cell count determination and/or other appropriate testing should be promptly considered whenever clinical symptoms suggestive of bleeding arise during the

considered whenever clinical symptoms suggestive of bleeding arise during the course of treatment. Clopidogrel should be used with caution in patients who may be at risk of increased bleeding from trauma, surgery or other pathological conditions and in patients receiving treatment with ASA, heparin, glycoprotein IIb/III inhibitors or non-steroidal anti-inflammatory drugs (NSAIDs) including Cox-2 inhibitors! Patients should be monitored carefully for any signs of bleeding including cocult bleeding, especially during the first week of treatment and/or after invasive cardiad procedures or surgery. The concomilant administration of clopidogrel with ora anticoagulants should be avoided since it may increase the intensity of bleedings. If a patient is to undergo elective surgery and antiplatelet effect is temporarily not desirable, clopidogrel should be discontinued 7 days prior to surgery. Patients should inform physicians and dentists that they are taking clopidogrel before any surgery is scheduled and before any new medicinal product is taken. Clopidogrel prolongs bleeding time and should be used with caution in patients who have lesions with a propensity to bleed (particularly gastrointestinal and intraocular). Patients should be advised that it might take longer than usual to stop bleeding when they take clopidogrel falonce or in combination with ASA), and that they should report any unusual bleeding (site or duration) to their physician. Three bleir Three hourdenance Turger (TTP) course of treatment.

Thrombotic Thrombocytopenic Purpura (TTP) Thrombotic Thrombocytopenic Purpura (TTP) has been reported very rarely following the use of clopidogrel, sometimes after a short exposure. It is characterised by thrombocytopenia and microangiopathic haemolytic anaemia associated with either neurological findings, renal dysfunction or fever. TTP is a potentially fatal condition requiring prompt treatment including plasmapheresis.

Recent ischaemic stroke In view of the lack of data, clopidogrel cannot be recommended during the first 7 days after acute ischaemic stroke.

Cytochrome P450 2C19 (CYP2C19) Pharmacogenetics: Based on literature data, patients with genetically reduced CYP22C19 function (intermediate or poor metabolisers) have lower systemic exposure to the active metabolite of clopidogrel and diminished antiplatelet responses, and generally exhibit higher cardiovascular event rates following myocardial infarction than do patients with normal CYP2C19 function. Tests are available to identify a patient's CYP2C19 genotype; these tests can be used as an aid in determining therapeutic strategy. Consider alternative treatment or treatment strategies in patients identified as CYP2C19 poor metabolizers. Concomitant use with the CYP2C19 inhibitors omeprazole and esomeprazole should be avoided.

Renal impairment: use with caution

### Hepatic impairment: used with caution

Premature discontinuation of therapy May increase risk of cardiovascular events (ie, stent thrombosis, myocardial infarction, and death), particularly in patients undergoing percutaneous coronary

Lapses in therapy: increased risk of cardiovascular events; restart as soon as possible Nasogastric administration in critically ill patients after cardiopulmonary resuscitation: increased risk of impaired clopidogrel bioavailability.

Effects on the ability to drive and use machines

Clopidogrel has no or negligible influence on the ability to drive and use machines

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Interaction with other medicaments Eye disorders: Eye bleeding (conjunctival, ocular, retinal) Clopidogrel should be used with caution in patients receiving other drugs that increase the risk of bleeding, including anticoagulants, other antiplatelets, and NSAIDs. Ear and labyrinth disorders: Vertigo Vascular disorders: Haematoma, serious haemorrhage NOALDS. Since clopidogrel is metabolised to its active metabolite by CYP2C19, use of drugs that inhibit the activity of this enzyme would be expected to result in reduced drug levels of the active metabolite of clopidogrel and a reduction in clinical efficacy. Concomitant use of drugs that inhibit CYP2C19 (e.g proton pump inhibitors) should haemorrhage of operative wound, vasculitis, hypotension Respiratory, thoracic and mediastinal disorders: epistaxis, respiratory tract bleeding (haemoptysis, pulmonary haemorrhage), bronchospasm, interstitial pneumonitis be discouraged. Concurrent use of clopidogrel and the following may result in an increased risk of bleeding Gastrointestinal disorders: Gastrointestinal haemorrhage, diarrhoea, abdominal pain, dyspepsia, gastric ulcer and duodenal ulcer, gastritis, vomiting, nausea, constipation, Alteplase, Recombina Aspirin Celecoxib Citalopram Dabigatran Etexilate Desveniafaxine Diclofenac Dipyridamole Duloxetine Enoxaparin Esoitalopram Etoricoxib Fluoxetine Heparin Fondaparinux Ibuprofen Alteplase, Recombinant Indomethacin Ketoprofen Ketorolac Mefenamic Acid Meloxicam Nilnacipran Naproxen Parecoxib Paroxetine Pentoxifylline Piroxicam Rivaroxaban Sertraline Tinzaparin Venlafaxine Ketoprofen flatulence, retroperitoneal haemorrhage, gastrointestinal and retroperitoneal haemorrhage with fatal outcome, pancreatitis, colitis (including ulcerative or lymphocytic colitis), stomatitis Hepato-biliary disorders: Acute liver failure, hepatitis, abnormal liver function test Skin and subcutaneous tissue disorders: Bruising, rash, pruritus, skin bleeding (purpura), bullous dermatitis (toxic epidermal necrolysis, Stevens Johnson Syndrome, erythema multiforme), angioedema, rash erythematous, urticaria, eczema lichen planus Venlafaxine Warfarin Musculoskeletal, connective tissue and bone disorders: Musculo-skeletal bleeding (haemarthrosis), arthritis, arthralgia, myalgia Concurrent use of clopidogrel and amiodarone may result in an ineffective inhibition Renal and urinary disorders: Haematuria, glomerulonephritis, blood creatinine of platelet aggregation. Concurrent use of clopidogrel and the following may result in decreased antiplatelet increased effect and increased risk of thrombotic events: Nicardipine Amlodipine
 Diltiazem
 Felodipine General disorders and administration site conditions: Bleeding at puncture site, Nimodipine fever Verapamil Investigations: Bleeding time prolonged, neutrophil count decreased, platelet count Concurrent use of clopidogrel and the following may result in a reduction in clinical Concurrent use of clopido efficacy of clopidogrel: Chloramphenicol Fluconazole Flucovatine Ketoconazole Omeprazole Ticlopidine Voriconazole decreased • Overdose and Treatment Bleeding associated with clopidogrel is common. Major bleeding complications are uncommon. Intentional overdose is rare. Ketoconazole Omeprazole Ticlopidine Voriconazole Symptoms In general, no clinical bleeding is expected in the absence of pre-existing bleeding pathology or trauma. Concurrent use of clopidogrel and fluvoxamine may result in contradictory effects of a reduction in clinical efficacy of clopidogrel and also an increased risk of bleeding. Concurrent use of clopidogrel and isoniazid may result in reduced antiplatelet activity of clopidogrel. Mild to moderate: Nausea and vomiting are likely to be present after significant acute overdose. Ecchymosis, gum bleeding, and inhibited wound clotting is possible in overdose. Severe: Patients with associated trauma or gastrointestinal bleeding may have prolonged bleeding and large volume blood loss. Concurrent use of clopidogrel and the following may result in an increased risk for thrombosis: Esomeprazole Treatment Omeprazole Rabeprazole Antidote is not available. If prompt correction of prolonged bleeding time is required platelet transfusion may reverse the effects of clopidogrel Concurrent use of clopidogrel and tamoxifen may result in an increased risk of tamoxifen toxicity (nausea, vomiting, dizziness, hyperreflexia, QT prolongation, increase in liver function tests). Storage Conditions Do not store above 30°C No clinically significant pharmacodynamic interactions were observed when clopidogrel was co-administered with atenolol, nifedipine, or both atenolol and Dosage forms and packaging nifedipine. CLAVIX 75 is available in Aluminium-Aluminium blister pack. Data from the CAPRIE study indicate that phenytoin and tolbutamide which are metabolised by CYP2C9 can be safely co-administered with clopidogrel. One side plain aluminium strip which is soft temper, plain, one side bright, dull side lacquer laminated to 25  $\mu$ m OPA, bright side lacquer laminated to 60  $\mu$ m PVC. Statement on usage during pregnancy and lactation Statement on usage during pregnancy and isolated. Pregnancy Pregnancy Category B 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. Other side printed aluminium foil which is 0.02 mm thick aluminium alloy hard temper printed foil with matt finish. Name and address of manufacturer Intas Pharmaceuticals Limited Camp Road, Selagui, Dehradun, Nursing Mothers 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 Uttarakhand, IN 248197, India • Name and Address of Product Registration Holder Accord Healthcare Sdn Bhd (1035160 D) Suite 12A-15, Level 12A, Wisma Zelan Adverse Effects/ Undesirable Effects Blood and the lymphatic system disorders: Thrombocytopenia, leucopenia, eosinophilia, neutropenia, including severe neutropenia, thrombotic thrombocytopenic purpura (TTP), aplastic anaemia, pancytopenia, agranulocytosis, severe hrombocytopenia, granulocytopenia, anaemia No 1 Jalan Tasik Permaisuri 2 Bandar Tun Razak 56000 Kuala Lumpu Date of revision of PI mmune system disorders: Serum sickness, anaphylactoid reactions July 2022 Psychiatric disorders: Hallucinations, confusion INP011 Nervous system disorders: Intracranial bleeding, headache, paraesthesia, dizziness, 80 5766 1 8618142 taste disturbances 

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