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HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use KENGREAL safely and effectively. See full prescribing information for KENGREAL. KENGREAL® (cangrelor) for injection, for intravenous use Initial U.S. Approval: 2015
KENGREAL is a P2Y ₁₂ platelet inhibitor indicated as an adjunct to percutaneous coronary intervention (PCI) for reducing the risk of periprocedural myocardial infarction (MI), repeat coronary revascularization, and stent thrombosis (ST) in patients in who have not been treated with a P2Y ₁₂ platelet inhibitor and are not being given a glycoprotein IIb/IIIa inhibitor. (1)
KENGREAL is intended for administration via a dedicated IV line, only after reconstitution and dilution. (2.3)
 Administer 30 mcg/kg intravenous (IV) bolus prior to PCI followed immediately by a 4 mcg/kg/min IV infusion for at least 2 hours or duration of procedure, whichever is longer. (2.1) To maintain platelet inhibition after discontinuation of KENGREAL infusion, administer an oral P2Y₁₂ platelet inhibitor. (2.2)
DOSAGE FORMS AND STRENGTHS
Single-use 10 mL vial containing 50 mg KENGREAL as a lyophilized powder for reconstitution (3.0)
CONTRAINDICATIONS
 Significant active bleeding (4.1) Hypersensitivity to KENGREAL or any component of the product (4.2)
WARNINGS AND PRECAUTIONS
 Bleeding: Like other drugs that inhibit platelet P2Y₁₂ function, KENGREAL can increase the risk of bleeding (5.1)
ADVERSE REACTIONS
The most common adverse reaction is bleeding. (5.1, 6.1)
To report SUSPECTED ADVERSE REACTIONS, contact Chiesi USA, Inc. at 1-888-661-9260 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatchDRUG INTERACTIONS
 Clopidogrel: Do not administer during KENGREAL infusion. (7.1) Prasugrel: Do not administer during KENGREAL infusion. (7.1)
Revised: 9/2022

KENGREAL- cangrelor injection, powder, lyophilized, for solution

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Chiesi USA, Inc.

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

KENGREAL is indicated as an adjunct to percutaneous coronary intervention (PCI) to reduce the risk of periprocedural myocardial infarction (MI), repeat coronary revascularization, and stent thrombosis (ST) in patients who have not been treated with a $P2Y_{12}$ platelet inhibitor and are not being given a glycoprotein IIb/IIIa inhibitor [see Clinical Studies (14.1)].

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosing

The recommended dosage of KENGREAL is a 30 mcg/kg IV bolus followed immediately by a 4 mcg/kg/min IV infusion. Initiate the bolus infusion prior to PCI. The maintenance

infusion should ordinarily be continued for at least 2 hours or for the duration of PCI, whichever is longer.

2.2 Transitioning Patients to Oral P2Y₁₂ Therapy

To maintain platelet inhibition after discontinuation of KENGREAL infusion, administer an oral $P2Y_{12}$ platelet inhibitor, as described below:

- Ticagrelor: 180 mg at any time during KENGREAL infusion or immediately after discontinuation [see Clinical Pharmacology (12.2)].
- Prasugrel: 60 mg immediately <u>after</u> discontinuation of KENGREAL [see Drug Interactions (7.1) and Clinical Pharmacology (12.2)].
- Clopidogrel: 600 mg immediately <u>after</u> discontinuation of KENGREAL [see Drug Interactions (7.1) and Clinical Pharmacology (12.2)].

2.3 Preparation and Administration

KENGREAL is intended for IV administration, after reconstitution and dilution.

Preparation

Reconstitute the vial prior to dilution in a bag. For each 50 mg/vial, reconstitute by adding 5 mL of Sterile Water for Injection. Swirl gently until all material is dissolved. Avoid vigorous mixing. Allow any foam to settle. Ensure that the contents of the vial are fully dissolved and the reconstituted material is a clear, colorless to pale yellow solution. Parenteral drug products should be inspected visually for particulate matter after reconstitution.

Before administration, each reconstituted vial must be diluted further with Normal Saline (Sodium Chloride Injection 0.9% USP) or 5% Dextrose Injection USP.

Withdraw the contents from one reconstituted vial and add to one 250 mL saline bag. Mix the bag thoroughly. This dilution will result in a concentration of 200 mcg/mL and should be sufficient for at least 2 hours of dosing. Patients 100 kg and over will require a minimum of 2 bags.

Reconstituted KENGREAL should be diluted immediately. Diluted KENGREAL is stable for up to 12 hours in 5% Dextrose Injection and 24 hours in Normal Saline at Room Temperature. Discard any unused portion of reconstituted solution remaining in the vial.

Administration

Administer KENGREAL via a dedicated IV line.

Administer the bolus volume rapidly (<1 minute), from the diluted bag via manual IV push or pump. Ensure the bolus is completely administered before the start of PCI. Start the infusion immediately after administration of the bolus [see Dosage and Administration (2.1)].

3 DOSAGE FORMS AND STRENGTHS

For Injection: 50 mg of KENGREAL lyophilized powder in a single-use 10 mL glass vial for reconstitution.

4 CONTRAINDICATIONS

4.1 Significant Active Bleeding

KENGREAL is contraindicated in patients with significant active bleeding [see Warnings and Precautions (5.1) and Adverse Reactions (6.1)].

4.2 Hypersensitivity

KENGREAL is contraindicated in patients with known hypersensitivity (e.g., anaphylaxis) to KENGREAL or any component of the product [see Adverse Reactions (6.1)].

5 WARNINGS AND PRECAUTIONS

5.1 Bleeding

Drugs that inhibit platelet $P2Y_{12}$ function, including KENGREAL, increase the risk of bleeding.

In CHAMPION PHOENIX bleeding events of all severities were more common with KENGREAL than with clopidogrel [see Adverse Reactions (6.1)]. Bleeding complications with KENGREAL were consistent across a variety of clinically important subgroups (see Figure 1).

Once KENGREAL is discontinued, there is no antiplatelet effect after an hour [see Clinical Pharmacology (12.3)].

6 ADVERSE REACTIONS

The following adverse reactions are also discussed elsewhere in the labeling:

• Bleeding [see Warnings and Precautions (5.1)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reactions 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.

The safety of KENGREAL has been evaluated in 13,301 subjects in controlled trials, in whom, 5,529 were in the CHAMPION PHOENIX trial.

Bleeding

There was a greater incidence of bleeding with KENGREAL than with clopidogrel. No baseline demographic factor altered the relative risk of bleeding with KENGREAL (see Table 1 and Figure 1).

Table 1: Major Bleeding Results in the CHAMPION PHOENIX Study (Non-CABG related Bleeding)^a

CHAMPION PHOENIX	KENGREAL	Clopidogrel
CHAMPION PHOENIX	(N=5529)	(N=5527)

Any GUSTO bleeding, n (%)	857 (15.5)	602 (10.9)
Severe/life-threatening ^b	11 (0.2)	6 (0.1)
Moderate ^c	21 (0.4)	14 (0.3)
Mild ^d	825 (14.9)	582 (10.5)
Any TIMI bleeding, n (%)	45 (0.8)	17 (0.3)
Major ^e	12 (0.2)	6 (0.1)
Minor ^f	33 (0.6)	11 (0.2)

Abbreviations: GUSTO: Global Utilization of Streptokinase and Tissue Plasminogen Activator for Occluded Arteries; TIMI: Thrombolysis in Myocardial Infarction

Figure 1: Bleeding Results in the CHAMPION PHOENIX Study^a (All Non-CABG related)

^a Safety population is all randomized subjects who received at least one dose of study drug

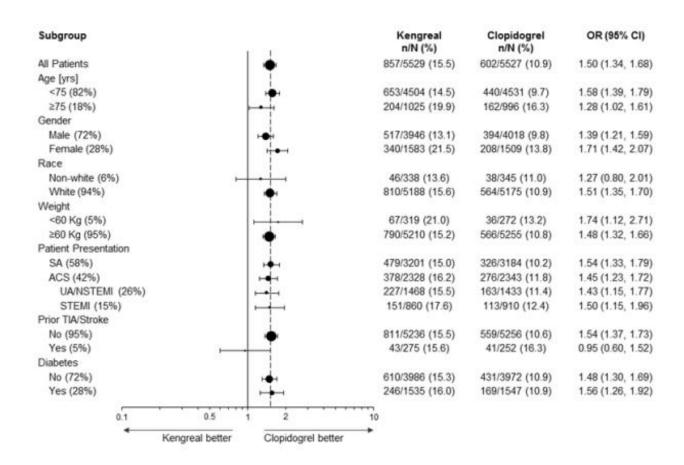
^b intracranial hemorrhage or bleeding resulting in substantial hemodynamic compromise requiring treatment

^c requiring blood transfusion but not resulting in hemodynamic compromise

^d all other bleeding not included in severe or moderate

^e any intracranial hemorrhage, or any overt bleeding associated with a reduction in hemoglobin of ≥5 g/dL (or, when hemoglobin is not available, an absolute reduction in hematocrit \geq 15%)

f any overt sign of bleeding (including observation by imaging techniques) that is associated with a reduction in hemoglobin of ≥ 3 g/dL and < 5 g/dL (or, when hemoglobin is not available, an absolute reduction in hematocrit of $\geq 9\%$ and < 15%)



^a Safety population is all randomized subjects who received at least one dose of study drug

Note: The figure above presents effects in various subgroups most of which are baseline characteristics and most of which were pre-specified (patient presentation and weight were not pre-specified subgroups). The 95% confidence limits that are shown do not take into account how many comparisons were made, nor do they reflect the effect of a particular factor after adjustment for all other factors. Apparent homogeneity or heterogeneity among groups should not be over-interpreted.

Drug Discontinuation

In CHAMPION PHOENIX the rate of discontinuation for bleeding events was 0.3% for KENGREAL and 0.1% for clopidogrel. Discontinuation for non-bleeding adverse events was low and similar for KENGREAL (0.6%) and for clopidogrel (0.4%). Coronary artery dissection, coronary artery perforation, and dyspnea were the most frequent events leading to discontinuation in patients treated with KENGREAL.

Non-Bleeding Adverse Reactions

Hypersensitivity

Serious cases of hypersensitivity were more frequent with KENGREAL (7/13301) than with control (2/12861). These included anaphylactic reactions, anaphylactic shock, bronchospasm, angioedema, and stridor.

Decreased renal function

Worsening renal function was reported in 3.2% of KENGREAL patients with severe renal

impairment (creatinine clearance <30 mL/min) compared to 1.4% of clopidogrel patients with severe renal impairment.

Dyspnea

Dyspnea was reported more frequently in patients treated with KENGREAL (1.3%) than with control (0.4%).

7 DRUG INTERACTIONS

7.1 Thienopyridines

Clopidogrel or prasugrel administered during KENGREAL infusion will have no antiplatelet effect until the next dose is administered. Therefore, administer clopidogrel or prasugrel after KENGREAL infusion is discontinued [see Dosage and Administration (2.2) and Clinical Pharmacology (12.3)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no available data on cangrelor use in pregnant women to evaluate for a drugassociated risk of major birth defects, miscarriage or adverse maternal or fetal outcomes. Untreated myocardial infarction can be fatal to the pregnant women and fetus (see Clinical Considerations).

In animal reproduction studies, continuous infusion of cangrelor in pregnant rats and rabbits throughout organogenesis at dose approximately 2-times the maximum recommended human dose (MRHD) did not result in fetal malformations (see Data).

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

Clinical Considerations

Disease-associated maternal and/or embryo/fetal risk

Myocardial infarction is a medical emergency in pregnancy which can be fatal to the pregnant woman and fetus if left untreated. Life-sustaining therapy for the pregnant woman should not be withheld due to potential concerns regarding the effects of cangrelor on the fetus.

Labor or delivery

Cangrelor use during labor and delivery may increase the risk for maternal bleeding and hemorrhage. Performance of neuraxial blockade procedures is not advised during cangrelor use due to potential risk of spinal hematoma. When possible, discontinue cangrelor 1 hour prior to labor, delivery, or neuraxial blockade [see Clinical Pharmacology (12.2)].

Data

Animal Data

A prenatal and postnatal development study in female rats demonstrated a slight increase in the incidence of maternal mortality in dams treated at doses up to 30 mcg/kg/min (approximately 7.5 times the MRHD) cangrelor continuous infusion from Day 6 of gestation up to Day 23 post-partum. Pregnancy rates, gestation index, length of gestation, numbers of live, dead and malformed pups, sex ratio, live birth index, and lactation of the maternal animals were unaffected.

Cangrelor administered at dose levels of \geq 3 mcg/kg/min in pregnant rats from Day 6 to 17 post-coitum resulted in dose-related fetal growth retardation characterized by increased incidences of incomplete ossification and unossified hind limb metatarsals.

An embryo-fetal development study in rabbits administered 4, 12, or 36 mcg/kg/min cangrelor continuous IV infusion from Day 6 to Day 19 post-coitum resulted in increased incidences of abortion and intrauterine losses at ≥12 mcg/kg/min (3 times the MRHD). Fetal growth retardation occurred at 36 mcg/kg/min (9 times the MRHD) and was characterized by decreased fetal weights, slight reduction in ossification, and a slight increase in skeletal variants.

Cangrelor did not produce malformations in either the rat or rabbit embryo-fetal development studies and is not considered to be a teratogen.

8.2 Lactation

Risk Summary

There are no data on the presence of cangrelor in human milk or animal milk, the effects on the breastfed infant, or the effects on milk production. However, due to its short-half life, cangrelor exposure is expected to be very low in the breastfed infant.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

8.5 Geriatric Use

In CHAMPION PHOENIX, 18% of patients were \geq 75 years. No overall differences in safety or effectiveness were observed between these patients and those patients <75 years [see Clinical Studies (14.1)].

8.6 Renal Impairment

No dosage adjustment is required for patients with mild, moderate, or severe renal impairment [see Clinical Pharmacology (12.3)].

8.7 Hepatic Impairment

KENGREAL has not been studied in patients with hepatic impairment. However, the metabolism of KENGREAL is not dependent of hepatic function, so dosage adjustment is not required for patients with hepatic impairment [see Clinical Pharmacology (12.3)].

10 OVERDOSAGE

There is no specific treatment to reverse the antiplatelet effect of KENGREAL but the effect is gone within one hour after the drug is discontinued.

In clinical trials, 36 patients received an overdose of KENGREAL, ranging from 36 to 300 mcg/kg (bolus dose) or 4.8 to 13.7 mcg/kg/min (infusion dose). The maximum overdose received was 10 times the PCI bolus dose or 3.5 times the PCI infusion dose in 4 patients. No clinical sequela were noted as a result of overdose following completion of KENGREAL therapy.

11 DESCRIPTION

KENGREAL is a direct-acting $P2Y_{12}$ platelet receptor inhibitor that blocks adenosine diphosphate (ADP)-induced platelet activation and aggregation. The chemical structure is similar to adenosine triphosphate (ATP).

The chemical name of KENGREAL is tetrasodium salt of N6-[2-(methylthio)ethyl]-2-[(3,3,3,-trifluoropropyl)-5'-adenylic acid, monanhydride with (dichloromethylene) bisphosphonic acid.

The empirical formula of KENGREAL is $C_{17}H_{21}N_5C_{l2}F_3Na_4O_{12}P_3S_2$ and the molecular weight is 864.3 g/mol.

The chemical structure is represented below:

Cangrelor for Injection is a sterile white to off-white lyophilized powder for IV infusion. In addition to the active ingredient, cangrelor, each single use vial contains mannitol (158 mg), sorbitol (52 mg), and sodium hydroxide to adjust the pH.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

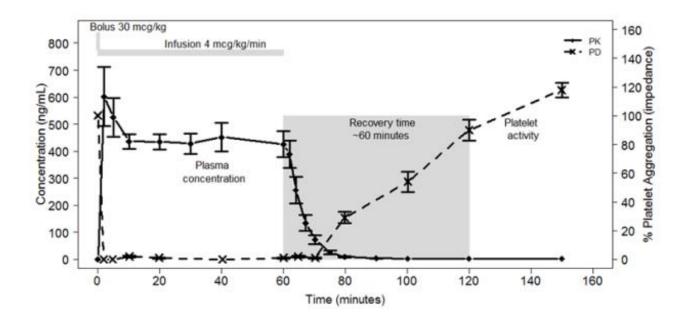
Cangrelor is a direct $P2Y_{12}$ platelet receptor inhibitor that blocks ADP-induced platelet activation and aggregation. Cangrelor binds selectively and reversibly to the $P2Y_{12}$ receptor to prevent further signaling and platelet activation.

12.2 Pharmacodynamics

Cangrelor inhibits activation and aggregation of platelets. After administration of a 30 mcg/kg IV bolus followed by a 4 mcg/kg/min IV infusion, platelet inhibition occurs within 2 minutes.

Figure 2 shows the effect on platelet activity, and its relation to cangrelor plasma concentration, of administering a 30 mcg/kg IV bolus, followed by a 1-hour 4 mcg/kg/min IV infusion, of cangrelor. The anti-platelet effect is maintained for the duration of the infusion. After discontinuation of the infusion, the anti-platelet effect decreases rapidly and platelet function returns to normal within 1 hour.

Figure 2: Cangrelor PD Characteristics



12.3 Pharmacokinetics

KENGREAL administered intravenously has linear pharmacokinetics in both healthy volunteers and patients. KENGREAL is rapidly distributed and metabolized, reaching C_{max} within 2 minutes after administration of an intravenous bolus followed by infusion.

Distribution

In a study in healthy volunteers, KENGREAL administration at a dose of 30 mcg/kg bolus plus 4 mcg/kg/min showed a volume of distribution of 3.9 L. Plasma protein binding of KENGREAL is about 97-98%.

Metabolism

KENGREAL is deactivated rapidly in the circulation by dephosphorylation to its primary metabolite, a nucleoside, which has negligible anti-platelet activity. KENGREAL's metabolism is independent of hepatic function and it does not interfere with other drugs metabolized by hepatic enzymes.

Elimination

Following IV administration of [3H] KENGREAL 58% of radioactivity was recovered in

urine. The remaining 35% of radioactivity was in feces, presumably following biliary excretion. The average elimination half-life of KENGREAL is about 3-6 minutes.

Specific Populations

KENGREAL pharmacokinetics are not affected by sex, age, renal status or hepatic function. No dose adjustment is needed for these factors [see Use in Specific Populations (8)].

Weight

Although weight was a significant covariate for PK with higher clearance in heavier patients, the impact of weight on drug exposure is accounted by the use of weight-based dosing.

Drug-Drug Interactions

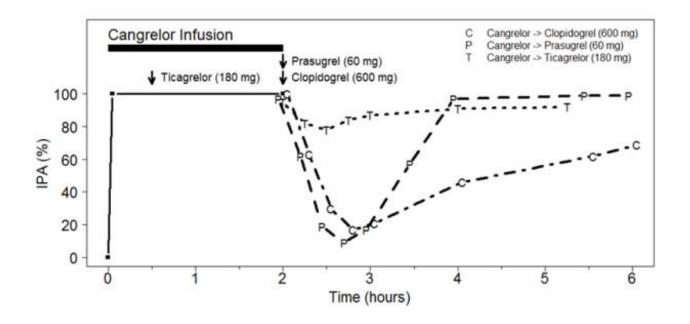
Co-administration of cangrelor with unfractionated heparin, aspirin, and nitroglycerin was formally studied in healthy subjects, with no evidence of an effect on the PK/PD of cangrelor.

In clinical trials cangrelor has been co-administered with bivalirudin, low molecular weight heparin, clopidogrel, prasugrel, and ticagrelor without clinically detectable interactions.

The expected antiplatelet effect of a 600 mg loading dose of clopidogrel or a 60 mg loading dose of prasugrel was blocked when clopidogrel or prasugrel was administered during a cangrelor infusion [see Drug Interactions (7.1)].

In contrast, the antiplatelet effect of a 180 mg ticagrelor loading dose was not altered significantly when ticagrelor was administered during cangrelor infusion [see Drug Interactions (7.1)].

Figure 3: Inhibition (Mean) of 20 μ M ADP-induced Platelet Aggregation (IPA) Measured by Light Transmission Aggregometry after Cangrelor 30 mcg/kg Bolus and 120-minute 4 mcg/kg Infusion with Transition to Other Oral P2Y₁₂ Platelet Inhibitors.



As shown in Figure 3, discontinuation of cangrelor infusion, followed by administration of the irreversible $P2Y_{12}$ platelet inhibitors clopidogrel or prasugrel led to a 1-hour decrease in IPA followed by an increase in inhibition of platelet aggregation beginning at about one hour. This time course of platelet inhibition reflects the pharmacokinetics of cangrelor (offset) followed by the absorption and metabolism of clopidogrel and prasugrel to active metabolites (onset). Administration of ticagrelor, a reversible $P2Y_{12}$ platelet inhibitor, during the cangrelor infusion led to minimal decrease in platelet inhibition for approximately 0.5 hour following discontinuation of the cangrelor infusion. Administering ticagrelor during cangrelor infusion does not attenuate the anti-platelet effect of ticagrelor.

In vitro studies suggest that neither cangrelor nor its major metabolites inhibit the activity of the hepatic CYP isoenzymes at therapeutic concentrations. Therefore, cangrelor administration is not expected to interfere with the hepatic metabolism of other concomitantly administered therapeutic agents.

13NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

<u>Carcinogenesis</u>

No carcinogenicity studies were conducted.

<u>Mutagenesis</u>

Cangrelor was non-mutagenic and non-clastogenic in genetic toxicology studies, including in vitro bacterial gene mutation assay, mouse lymphoma thymidine kinase assay, chromosome aberration assay in human peripheral lymphocytes, and in vivo bone marrow micronucleus assay in mice.

Impairment of Fertility

Cangrelor had no significant effect on male or female rats fertility treated by continuous infusion for 28 days, or on early embryonic development at steady state plasma concentration (Css) of approximately the same as that achieved in the PCI setting at the MRHD.

14 CLINICAL STUDIES

14.1 CHAMPION PHOENIX Trial

The CHAMPION PHOENIX trial was intended to test whether faster platelet inhibition with cangrelor at the time of PCI would reduce the rate of periprocedural thrombotic events compared to a drug with a slower antiplatelet effect, clopidogrel, given at about the time of PCI. It was a randomized, double-blind study in which patients with coronary artery disease (stable angina, UA/NSTEMI, STEMI) requiring PCI and receiving standard therapy including aspirin and heparin or bivalirudin were randomized 1:1 to KENGREAL (n=5472) or to clopidogrel 300 or 600 mg (n=5470). Patients who had already taken an oral P2Y $_{12}$ platelet inhibitor were not eligible to enroll. Patients administered glycoprotein IIb/IIIa inhibitors (GPI) or for whom GPI use was planned were also not eligible to enroll. PHOENIX was thus a study of people undergoing PCI who had not been previously

treated with anti-platelet therapy other than aspirin.

The primary outcome measure was the first occurrence of any one of the composite endpoint of all-cause mortality, myocardial infarction (MI), ischemia-driven revascularization (IDR), and stent thrombosis (ST) within 48 hours after randomization.

KENGREAL was administered as 30 mcg/kg bolus followed by 4 mcg/kg/min infusion for 2 to 4 hours. Clopidogrel 600 mg was administered immediately at the end of the KENGREAL infusion in patients randomized to KENGREAL. Clopidogrel 300 mg or 600 mg was administered shortly before PCI or shortly afterward, in patients randomized to clopidogrel.

KENGREAL significantly reduced the occurrence of primary composite endpoint events compared to clopidogrel (relative risk reduction [RRR] 22%). Most of the effect was a reduction in post-procedural MIs detected solely by elevations in CK-MB (type 4a MI). KENGREAL did not reduce the risk of death. Table 2 shows the study results for the primary composite endpoint and the contribution of each component to the primary endpoint.

Table 2: Primary Endpoint and Its Component Events at 48 Hours in CHAMPION PHOENIX (mITT population^a)

	KENGREAL (N=5470) n (%)	Clopidogrel (N=5469) n (%)	KENGREAL vs. clo	pidogrel
			OR (95% CI)	p-value
Primary Endpoint Death/MI/IDR/ST	257 (4.7)	322 (5.9)	0.78 (0.66,0.93) b	0.005
Death	18 (0.3)	18 (0.3)		
MI	202 (3.7)	254 (4.6)		
IDR	10 (0.2)	14 (0.3)		
ST	27 (0.5)	36 (0.7)		

Note: if a subject had more than one event at 48 hours, then worst outcome counted (death >MI >IDR >ST)

A supplementary analysis was also performed omitting two subcomponent events of the primary endpoint that were of lesser clinical significance: intraprocedural stent thrombosis (defined as a new or increasing thrombus within or adjacent to a deployed stent occurring during the index PCI procedure), and myocardial infarction with less than a 10-fold increase in CK-MB, or with less than a 5-fold increase in CK-MB in the presence of new Q waves or new left bundle branch block (LBBB). These results are shown in Table 3.

Table 3: Supplementary Endpoint and Its Component Events at

^aThe mITT population is all randomized subjects who received at least one dose of study drug and underwent the index PCI procedure

^b Based on logistic model adjusted for loading dose and baseline patient status for primary endpoint

48 Hours in CHAMPION PHOENIX (mITT population)

n (%)	KENGREAL (N=5470)	Clopidogrel (N=5469)	KENGREAL vs. clopidogrel OR (95% CI)
<u>Supplementary Endpoint</u> Death/SCAI-MI/IDR/ARC-ST	79 (1.4)	114 (2.1)	0.69 (0.52,0.92)
Death	18 (0.3)	18 (0.3)	
SCAI-MI ^a	48 (0.9)	80 (1.5)	
IDR	13 (0.2)	16 (0.3)	
ARC-ST ^b	0 (0.0)	0 (0.0)	

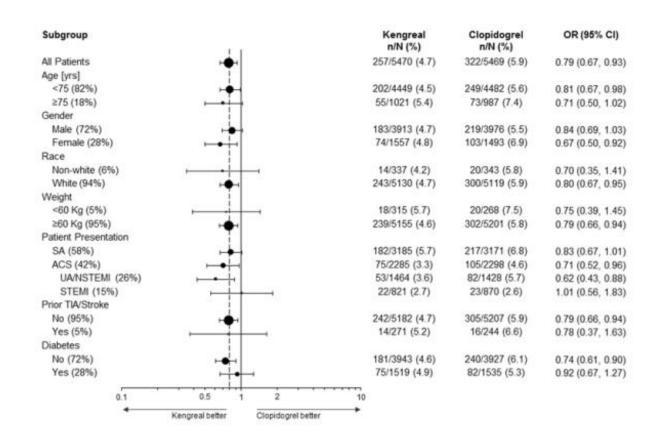
Note: if a subject had more than one event at 48 hours, then worst outcome counted (death >SCAI-MI >IDR >ARC-ST)

aSCAI MI: CK-MB ≥10X ULN, or CK-MB ≥5X ULN with new Q waves or new LBBB

bARC-ST defined according to the ARC definition [Cutlip et al. 2007]

The effect of KENGREAL appeared to be consistent in a variety of pre-specified and other clinically important subgroups (see Figure 4).

Figure 4: CHAMPION PHOENIX Study: Primary Efficacy Endpoint by Subgroup (mITT Population^a)



^a The mITT population is all randomized subjects who received at least one dose of study drug and underwent the index PCI procedure.

Note: The figure above presents effects in various subgroups most of which are baseline characteristics and most of which were pre-specified (patient presentation and weight were not pre-specified subgroups). The 95% confidence limits that are shown do not take into account how many comparisons were made, nor do they reflect the effect of a particular factor after adjustment for all other factors. Apparent homogeneity or heterogeneity among groups should not be over-interpreted.

14.2 CHAMPION PCI and PLATFORM Trials

Two additional concurrent clinical trials of the effect of KENGREAL in patients undergoing percutaneous coronary intervention, CHAMPION PCI and CHAMPION PLATFORM were conducted and terminated early for futility. They were completed prior to the design and conduct of CHAMPION PHOENIX. The comparative characteristics and outcomes of each trial are shown in Table 4.

PCI PLATFORM PHOENIX Subjects Randomized (% 8,846 (99%) 11,145 (100%) 5,346 (84%) of planned enrollment) Primary Endpoint at Death, MI, or Death, MI, or Death, MI, IDR, or ST 48 hours IDR IDR 1.05 (0.88, Outcome of primary 0.87 (0.71, 0.78 (0.66, 0.93) analysis, OR (95% CI) 1.24) 1.07) 600 mg 600 ma Clopidogrel dose and time 300 or 600 mg shortly immediately immediately before or shortly after PCI in clopidogrel arm before PCI after PCI **Population** Stable enrolled 15% 5% 58% angina (%) **UA/NSTEMI** 74% 95% 26% Excluded STEMI 11% 16%

Table 4: Summary of the CHAMPION Trials

16 HOW SUPPLIED/STORAGE AND HANDLING

KENGREAL is supplied as a sterile lyophilized powder in single-use 10 mL vials.

- NDC # 10122-620-01: 10 mL vial containing 50 mg cangrelor
- NDC # 10122-620-10: 10 count of 10 mL vials containing 50 mg cangrelor

Vials of KENGREAL should be stored at USP Controlled Room Temperature, [20°C to 25°C (68°F to 77°F) with excursions between 15°C and 30°C (59°F and 86°F) permitted].

KENGREAL® is a registered trademeark of Chiesi Farmaceutici S.p.A.

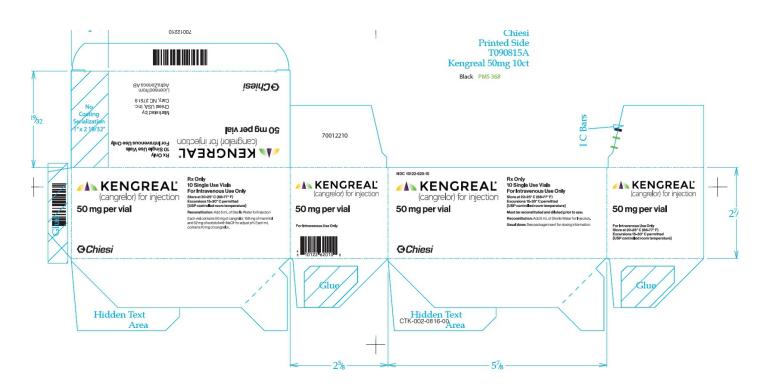
Distributed by:

Chiesi USA, Inc.

Cary, NC 27518

CTK-001-0720-01-SPL-1

Principal Display Panel NDC 10122-620-10 Kengreal® (cangrelor) for injection 50 mg per vial Rx Only 10 Single Use Vials



KENGREAL

cangrelor injection, powder, lyophilized, for solution

Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:10122-620		
Route of Administration	INTRAVENOUS				

Active Ingredient/Active Moiety					
Ingredient Name	Basis of Strength	Strength			
CANGRELOR (UNII: 6AQ1Y404U7) (CANGRELOR - UNII:6AQ1Y404U7)	CANGRELOR	50 mg			

Inactive Ingredients

Ingredient Name	Strength
MANNITOL (UNII: 30WL53L36A)	158 mg
SORBITOL (UNII: 506T60A25R)	52 mg
SODIUM HYDROXIDE (UNII: 55X04QC32I)	

F	Packaging						
#	tem Code	Package Description	Marketing Start Date	Marketing End Date			
1	NDC:10122- 620-10	10 in 1 CARTON	07/08/2015				
1	NDC:10122- 620-01	1 in 1 VIAL, SINGLE-USE; Type 0: Not a Combination Product					

Marketing Information					
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date		
NDA	NDA204958	07/08/2015			

Labeler - Chiesi USA, Inc. (088084228)

Registrant - Chiesi USA, Inc. (088084228)

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