

Amgen Receives Positive CHMP Opinion For Use Of Repatha™ (Evolocumab) For The Treatment Of High Cholesterol

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First Positive Regulatory Agency Determination for a PCSK9 Inhibitor

THOUSAND OAKS, Calif., May 22, 2015 /PRNewswire/ -- Amgen (NASDAQ: AMGN) today announced that the Committee for Medicinal Products for Human Use (CHMP) of the European Medicines Agency (EMA) has adopted a positive opinion for the marketing authorization of Repatha ™ (evolocumab) recommending approval for use in certain patients with high cholesterol. Repatha is an investigational fully human monoclonal antibody that inhibits proprotein convertase subtilisin/kexin type 9 (PCSK9), a protein that reduces the liver's ability to remove low-density lipoprotein cholesterol (LDL-C), or "bad" cholesterol, from the blood.¹

The CHMP recommended granting Repatha marketing authorization for:

- The treatment of adults with primary hypercholesterolemia (heterozygous familial and non-familial [HeFH]) or mixed dyslipidemia, as an adjunct to diet:
 - in combination with a statin or statin with other lipid-lowering therapies in patients unable to reach LDL-C goals with the maximum tolerated dose of a statin, or
 - alone or in combination with other lipid-lowering therapies in patients who are statin-intolerant, or for whom a statin is contraindicated.
- The treatment of adults and adolescents aged 12 years and over with homozygous familial hypercholesterolemia (HoFH) in combination with other lipid-lowering therapies.

The effect of Repatha on cardiovascular morbidity and mortality has not yet been determined.

"We are pleased to receive a positive opinion from the CHMP for Repatha as it is an important step in providing a new treatment option for patients with high cholesterol, who are unable to reach their LDL cholesterol goals with current therapies in the European Union," said Sean E. Harper, M.D., executive vice president of Research and Development at Amgen. "Uncontrolled high cholesterol is a burden on the health system and we look forward to continuing to work with regulatory authorities to bring Repatha to patients across Europe."

The Icelandic and Norwegian CHMP members have also agreed with the above-mentioned recommendation on granting of the marketing authorization.

The CHMP positive opinion will now be reviewed by the European Commission (EC), which has the authority to approve medicines for the European Union (EU). If approved, a centralized marketing authorization with unified labeling will be granted in the 28 countries that are members of the EU. Norway, Iceland and Liechtenstein, as members of the European Economic Area (EEA), will take corresponding decisions on the basis of the decision of the EC.

The CHMP opinion is based on data from approximately 6,800 patients, including more than 4,500 patients with high cholesterol in 10 Phase 3 trials. The Phase 3 studies evaluated the safety and efficacy of Repatha in patients with elevated cholesterol, including patients on statins with or without other lipid-lowering therapies; patients who cannot tolerate statins; patients with HeFH; and patients with HoFH, a rare and serious genetic disorder.²

In Europe, up to 54 percent of the population aged 25 and older has a total cholesterol \geq 5.0 mmol/L (\geq 190 mg/dL).³ High cholesterol, particularly elevated LDL-C, is the most common form of dyslipidemia, which is an abnormality of cholesterol and/or fats in the blood.^{4,5} Elevated LDL-C is recognized as a major risk factor for cardiovascular disease.^{6,7}

About Repatha ™(evolocumab)

Repatha ™(evolocumab) is a fully human monoclonal antibody that inhibits proprotein convertase subtilisin/kexin type 9 (PCSK9).¹ PCSK9 is a protein that targets LDL receptors for degradation and thereby reduces the liver's ability to remove LDL-C, or "bad" cholesterol, from the blood.⁸ Repatha, being developed by Amgen scientists, is designed to bind to PCSK9 and inhibit PCSK9 from binding to LDL receptors on the liver surface. In the absence of PCSK9, there are more LDL receptors on the surface of the liver to remove LDL-C from the blood.¹

The U.S. Food and Drug Administration (FDA) and EMA have provisionally approved the use of the trade name Repatha.

About PROFICIO: Repatha ™(evolocumab) Clinical Trial Program

PROFICIO, which stands for the Program to Reduce LDL-C and Cardiovascular Qutcomes Following Inhibition of PCSK9 In Different PQ pulations, is a large and comprehensive clinical trial program evaluating Repatha (evolocumab) in 22 clinical trials, with a combined planned enrollment of approximately 35,000 patients.

The Phase 3 program includes 16 trials to evaluate Repatha administered every two weeks and monthly in multiple patient populations, including in combination with statins in patients with hyperlipidemia (LAPLACE-2 and YUKAWA-2); in patients with hyperlipidemia who cannot tolerate statins (GAUSS-2 and GAUSS-3); as a stand-alone treatment in patients with hyperlipidemia (MENDEL-2); in patients whose elevated cholesterol is caused by genetic disorders called heterozygous (RUTHERFORD-2 and TAUSSIG) and homozygous (TESLA and TAUSSIG) familial hypercholesterolemia; the effects of Repatha on lipoprotein metabolism (FLOREY); and the administration of Repatha in statin-treated hyperlipidemic patients (THOMAS-1 and THOMAS-2).

Five ongoing studies in the Repatha Phase 3 program will provide long-term safety and efficacy data. These include FOURIER (Eurther

Cardiovascular <u>OU</u>tcomes <u>Research</u> with PCSK9 <u>Inhibition</u> in Subjects with <u>Elevated Risk</u>), which will assess whether treatment with Repatha in combination with statin therapy compared to placebo plus statin therapy reduces recurrent cardiovascular events in approximately 27,500 patients with cardiovascular disease; EBBINGHAUS (<u>E</u>valuating PCSK9 <u>Binding AntiBody Influence on CoGnitive HeAlth</u> in High Cardiovasc<u>Ular Risk Subjects</u>), which will evaluate the effect of Repatha on cognitive function in a subset of patients enrolled in FOURIER; OSLER-2 (<u>Open Label Study of Long TER</u>m Evaluation Against LDL-C Trial-2) in patients with high cholesterol who completed any of the Phase 3 studies; GLAGOV (<u>GL</u>obal <u>Assessment of Plaque ReGression</u> with a PCSK9 Antib<u>O</u>dy as Measured by Intra<u>V</u>ascular Ultrasound), which will determine the effect of Repatha on coronary atherosclerosis in approximately 950 patients undergoing cardiac catheterization; and TAUSSIG (<u>Trial Assessing Long Term USe</u> of PCSK9 <u>Inhibition in Subjects with Genetic LDL Disorders</u>), which will assess the long-term safety and efficacy of Repatha on LDL-C in patients with severe familial hypercholesterolemia including patients with homozygous familial hypercholesterolemia. The DESCARTES (<u>D</u>urable <u>Effect of PCSK9 Antibody CompARed wiTh PlacEbo Study</u>) study, a long-term safety and efficacy trial in patients with hyperlipidemia at risk for cardiovascular disease, has completed.

About Amgen Cardiovascular

Building on more than three decades of experience in developing biotechnology medicines for patients with serious illnesses, Amgen is dedicated to addressing important scientific questions to advance care and improve the lives of patients with cardiovascular disease, the leading cause of morbidity and mortality worldwide. Amgen's research into cardiovascular disease, and potential treatment options, is part of a growing competency at Amgen that utilizes human genetics to identify and validate certain drug targets. Through its own research and development efforts, as well as partnerships, Amgen is building a robust cardiovascular pipeline consisting of several investigational molecules in an effort to address a number of today's important unmet patient needs, such as high cholesterol and heart failure.

About Amgen

Amgen is committed to unlocking the potential of biology for patients suffering from serious illnesses by discovering, developing, manufacturing and delivering innovative human therapeutics. This approach begins by using tools like advanced human genetics to unravel the complexities of disease and understand the fundamentals of human biology.

Amgen focuses on areas of high unmet medical need and leverages its biologics manufacturing expertise to strive for solutions that improve health outcomes and dramatically improve people's lives. A biotechnology pioneer since 1980, Amgen has grown to be one of the world's leading independent biotechnology companies, has reached millions of patients around the world and is developing a pipeline of medicines with breakaway potential.

For more information, visit www.amgen.com and follow us on www.twitter.com/amgen.

Forward-Looking Statements

This news release contains forward-looking statements that are based on management's current expectations and beliefs and are subject to a number of risks, uncertainties and assumptions that could cause actual results to differ materially from those described. All statements, other than statements of historical fact, are statements that could be deemed forward-looking statements, including estimates of revenues, operating margins, capital expenditures, cash, other financial metrics, expected legal, arbitration, political, regulatory or clinical results or practices, customer and prescriber patterns or practices, reimbursement activities and outcomes and other such estimates and results. Forward-looking statements involve significant risks and uncertainties, including those discussed below and more fully described in the Securities and Exchange Commission (SEC) reports filed by Amgen, including Amgen's most recent annual report on Form 10-K and any subsequent periodic reports on Form 10-Q and Form 8-K. Please refer to Amgen's most recent Forms 10-K, 10-Q and 8-K for additional information on the uncertainties and risk factors related to our business. Unless otherwise noted, Amgen is providing this information as of May 22, 2015, and expressly disclaims any duty to update information contained in this news release.

No forward-looking statement can be guaranteed and actual results may differ materially from those we project. Discovery or identification of new product candidates or development of new indications for existing products cannot be guaranteed and movement from concept to product is uncertain; consequently, there can be no guarantee that any particular product candidate or development of a new indication for an existing product will be successful and become a commercial product. Further, preclinical results do not guarantee safe and effective performance of product candidates in humans. The complexity of the human body cannot be perfectly, or sometimes, even adequately modeled by computer or cell culture systems or animal models. The length of time that it takes for us to complete clinical trials and obtain regulatory approval for product marketing has in the past varied and we expect similar variability in the future. We develop product candidates internally and through licensing collaborations, partnerships and joint ventures. Product candidates that are derived from relationships may be subject to disputes between the parties or may prove to be not as effective or as safe as we may have believed at the time of entering into such relationship. Also, we or others could identify safety, side effects or manufacturing problems with our products after they are on the market. Our business may be impacted by government investigations, litigation and products liability claims. We depend on third parties for a significant portion of our manufacturing capacity for the supply of certain of our current and future products and limits on supply may constrain sales of certain of our current products and product candidate development.

In addition, sales of our products are affected by the reimbursement policies imposed by third-party payors, including governments, private insurance plans and managed care providers and may be affected by regulatory, clinical and guideline developments and domestic and international trends toward managed care and healthcare cost containment as well as U.S. legislation affecting pharmaceutical pricing and reimbursement. Government and others' regulations and reimbursement policies may affect the development, usage and pricing of our products. In addition, we compete with other companies with respect to some of our marketed products as well as for the discovery and development of new products. We believe that some of our newer products, product candidates or new indications for existing products, may face competition when and as they are approved and marketed. Our products may compete against products that have lower prices, established reimbursement, superior performance, are easier to administer, or that are otherwise competitive with our products. In addition, while we routinely obtain patents for our products and technology, the protection offered by our patents and patent applications may be challenged, invalidated or circumvented by our competitors and there can be no guarantee of our ability to obtain or maintain patent protection for our products or product candidates. We cannot guarantee that we will be able to produce commercially successful products or maintain the commercial success of our existing products. Our stock price may be affected by actual or perceived market opportunity, competitive position, and success or failure of our products or product candidates. Further, the discovery of significant problems with a product similar to one of our products that implicate an entire class of products could have a material adverse effect on sales of the affected products and on our business and results of operations. Our efforts to integrate the operations of companies we have acquired may not be successful. We may experience difficulties, delays or unexpected costs and not achieve anticipated benefits and savings from our recently announced restructuring plan. Our business performance could affect or limit the ability of our Board of Directors to declare a dividend or their ability to pay a dividend or repurchase

our common stock.

The scientific information discussed in this news release related to our product candidates is preliminary and investigative. Such product candidates are not approved by the U.S. Food and Drug Administration (FDA), the European Medicines Agency (EMA) or other similar regulatory bodies, and no conclusions can or should be drawn regarding the safety or effectiveness of the product candidates.

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