



## **Lilly's CYRAMZA® (ramucirumab) Phase 3 RELAY Trial Met Primary Endpoint, Significantly Improving Progression-Free Survival in First-Line Treatment of Patients with Metastatic EGFR-Mutated Non-Small Cell Lung Cancer**

March 12, 2019

**Global, randomized, placebo-controlled study confirms CYRAMZA, in combination with erlotinib, significantly delayed disease progression in previously untreated patients with metastatic non-small cell lung cancer whose tumors have activating EGFR mutations**

**Global regulatory submissions to be initiated this year  
Second positive Phase 3 study of CYRAMZA in metastatic non-small cell lung cancer**

INDIANAPOLIS, March 12, 2019 /PRNewswire/ -- Eli Lilly and Company (NYSE: LLY) today announced that its Phase 3 RELAY study of CYRAMZA® (ramucirumab) met its primary endpoint of progression-free survival (PFS), demonstrating a statistically significant improvement in the time patients lived without their cancer growing or spreading after starting treatment. The Phase 3 global, randomized, double-blind trial is evaluating CYRAMZA in combination with erlotinib, compared to placebo in combination with erlotinib, as a first-line treatment in patients with metastatic non-small cell lung cancer (NSCLC) whose tumors have activating EGFR mutations.

The safety profile observed in the RELAY study was consistent with what has been previously observed for CYRAMZA in Phase 3 clinical trials and the established safety profile of erlotinib. The most common (>5% incidence) Grade ≥3 adverse events occurring at a higher rate (≥5% difference) on the CYRAMZA-plus-erlotinib arm compared to the placebo-plus-erlotinib arm were hypertension, dermatitis acneiform (an acne-like rash), and diarrhea. Detailed efficacy and safety results will be submitted for presentation at a medical meeting in 2019.

"Despite recent treatment advances in metastatic EGFR-mutated non-small cell lung cancer, prognosis remains poor and there is an ongoing need for additional first-line treatment options to help patients with this deadly disease," said Maura Dickler, M.D., vice president of late phase development, Lilly Oncology.

There is no cure for people with metastatic lung cancer. The disease is associated with low survival rates and disease progression following acquired resistance remains a challenge. Most patients receive several lines of treatment and the therapeutic regimen prescribed for first-line treatment can impact a person's options for later lines of treatment. Tyrosine kinase inhibitors (TKIs) are the current standard treatment option for EGFR-mutated NSCLC. Erlotinib, the TKI included in the RELAY trial regimen, is a globally recognized standard of care for this type of lung cancer.

"We are excited about these results, which show CYRAMZA plus erlotinib significantly delayed disease progression in this patient population. The RELAY trial is another example of Lilly's deep commitment to providing new treatment options to patients with lung cancer," said Dr. Dickler. "We would like to thank the patients, investigators and clinical trial sites that are participating in the RELAY study, and we look forward to working with regulatory authorities globally on our submissions."

Lilly intends to initiate global regulatory submissions in mid-2019.

RELAY is the second positive Phase 3 study of CYRAMZA in metastatic NSCLC. In the positive Phase 3 REVEL study, CYRAMZA plus docetaxel was compared to placebo plus docetaxel in people with metastatic NSCLC whose cancer had progressed on or after prior platinum-based chemotherapy for locally advanced or metastatic disease. The primary endpoint of overall survival was met, as well as key secondary endpoints of PFS and response rate. The REVEL results supported CYRAMZA's current indication in second-line NSCLC.

Results of previously completed Phase 3 studies of CYRAMZA have also supported approvals in second-line gastric and colorectal cancer. Based on the REACH-2 results, Lilly has made regulatory submissions in the U.S., EU and Japan for the use of CYRAMZA in second-line treatment of patients with hepatocellular carcinoma.

### **About the RELAY Trial**

[RELAY](#) is a global randomized, double-blind, placebo-controlled Phase 3 study of CYRAMZA in combination with erlotinib, compared to placebo in combination with erlotinib, as a first-line treatment in previously untreated patients with metastatic NSCLC whose tumors have EGFR (epidermal growth factor receptor) exon 19 deletions or exon 21 (L858R) substitution mutations. Initiated in 2015, the study randomized 449 patients across North America, Europe and Asia. The primary endpoint of the RELAY trial is progression-free survival; key secondary endpoints include safety, response rate, overall survival, and patient-reported outcomes.

### **About Lung Cancer and EGFR Mutations**

Lung cancer is the leading cause of cancer death in the U.S. and most other countries, killing nearly 1.7 million people worldwide each year.<sup>1</sup> In the U.S., lung cancer is responsible for approximately 25 percent of all cancer deaths, more than those from breast, colon and prostate cancers combined.<sup>2</sup> Non-small cell lung cancer (NSCLC) is much more common than other types of lung cancer and accounts for about 80 to 85 percent of all lung cancer cases.<sup>3</sup> Stage IV NSCLC is a very difficult-to-treat cancer and the prognosis is poor for metastatic NSCLC.<sup>4</sup>

EGFR is a protein that helps cells grow and divide. When the EGFR gene is mutated it can cause the protein to be overactive, resulting in the formation of cancer cells. EGFR mutations may occur in 10 to 35 percent of NSCLC tumors globally.<sup>5</sup> Activating EGFR mutations are found in about 10 to 20 percent of Caucasian patients with lung adenocarcinomas and in up to 40 to 60 percent of Asian patients.<sup>6,7,8</sup> Regardless of ethnicity, these mutations are commonly found in females, non-smokers and those with adenocarcinoma histology.<sup>9,10</sup> The most common EGFR mutations are activating exon 19 deletion and exon 21 (L858R) substitution mutations, which are present in over 90 percent of EGFR-mutated tumors.<sup>7,8</sup>

### **About CYRAMZA® (ramucirumab)**

In the U.S., CYRAMZA (ramucirumab) is approved for use as a single agent or in combination with paclitaxel as a treatment for people with advanced or metastatic gastric (stomach) or gastroesophageal junction (GEJ) adenocarcinoma whose cancer has progressed on or after prior fluoropyrimidine- or platinum-containing chemotherapy. It is also approved in combination with docetaxel as a treatment for people with metastatic non-small cell lung cancer (NSCLC) whose cancer has progressed on or after platinum-based chemotherapy. Additionally, it is approved with FOLFIRI as a treatment for people with metastatic colorectal cancer (mCRC) whose cancer has progressed on or after therapy with bevacizumab, oxaliplatin, and a fluoropyrimidine.

CYRAMZA is being investigated in a broad global development program that has enrolled more than 14,000 patients across more than 100 trials worldwide. These include several studies investigating CYRAMZA in combination with other anti-cancer therapies for the treatment of multiple tumor types.

Ramucirumab is an antiangiogenic therapy. It is a vascular endothelial growth factor (VEGF) Receptor 2 antagonist that specifically binds and blocks activation of VEGF Receptor 2 by blocking the binding of VEGF receptor ligands VEGF-A, VEGF-C, and VEGF-D. Ramucirumab inhibited angiogenesis in an *in vivo* animal model.

### **About Angiogenesis and VEGF Protein**

Angiogenesis is the process of making new blood vessels. In a person with cancer, angiogenesis creates new blood vessels that give a tumor its own blood supply, allowing it to grow and spread.

Some tumors create proteins called VEGF. These proteins attach to the VEGF receptors of blood vessel cells causing new blood vessels to form around the tumors, enabling growth. Blocking the VEGF protein from linking to the blood vessels helps to inhibit tumor growth by slowing angiogenesis and the blood supply that feeds tumors. Of the three known VEGF receptors, VEGF Receptor 2 is linked most closely to VEGF-induced tumor angiogenesis.

## **INDICATIONS**

### **Gastric Cancer**

CYRAMZA, as a single agent or in combination with paclitaxel, is indicated for the treatment of patients with advanced or metastatic, gastric or gastroesophageal junction (GEJ) adenocarcinoma with disease progression on or after prior fluoropyrimidine- or platinum-containing chemotherapy.

### **Non-Small Cell Lung Cancer**

CYRAMZA, in combination with docetaxel, is indicated for the treatment of patients with metastatic non-small cell lung cancer (NSCLC) with disease progression on or after platinum-based chemotherapy. Patients with epidermal growth factor receptor (EGFR) or anaplastic lymphoma kinase (ALK) genomic tumor aberrations should have disease progression on FDA-approved therapy for these aberrations prior to receiving CYRAMZA.

### **Colorectal Cancer**

CYRAMZA, in combination with FOLFIRI (irinotecan, folinic acid, and 5-fluorouracil), is indicated for the treatment of patients with metastatic colorectal cancer (mCRC) with disease progression on or after prior therapy with bevacizumab, oxaliplatin, and a fluoropyrimidine.

## **IMPORTANT SAFETY INFORMATION FOR CYRAMZA**

### **WARNING: HEMORRHAGE, GASTROINTESTINAL PERFORATION, AND IMPAIRED WOUND HEALING**

**Hemorrhage: CYRAMZA increased the risk of hemorrhage and gastrointestinal hemorrhage, including severe and sometimes fatal hemorrhagic events. Permanently discontinue CYRAMZA in patients who experience severe bleeding.**

**Gastrointestinal Perforation: CYRAMZA can increase the risk of gastrointestinal perforation, a potentially fatal event. Permanently discontinue CYRAMZA in patients who experience a gastrointestinal perforation.**

**Impaired Wound Healing: Impaired wound healing can occur with antibodies inhibiting the VEGF pathway. Discontinue CYRAMZA therapy in patients with impaired wound healing. Withhold CYRAMZA prior to surgery and discontinue CYRAMZA if a patient develops wound healing complications.**

## **Warnings and Precautions**

### **Hemorrhage**

- In study 1, which evaluated CYRAMZA as a single agent in advanced gastric cancer, the incidence of severe bleeding was 3.4% for CYRAMZA and 2.6% for placebo. In study 2, which evaluated CYRAMZA plus paclitaxel in advanced gastric cancer, the incidence of severe bleeding was 4.3% for CYRAMZA plus paclitaxel and 2.4% for placebo plus paclitaxel. Patients with gastric cancer receiving nonsteroidal anti-inflammatory drugs (NSAIDs) were excluded from enrollment in studies 1 and 2. In study 3, which evaluated CYRAMZA plus docetaxel in metastatic non-small cell lung cancer (NSCLC), the incidence of severe bleeding was 2.4% for CYRAMZA plus docetaxel and 2.3% for placebo plus docetaxel. Patients with NSCLC receiving therapeutic anticoagulation or chronic therapy with NSAIDs or other antiplatelet therapy other than once-daily aspirin or with radiographic evidence of major airway or blood vessel invasion or intratumor cavitation were

excluded from study 3. In study 4, which evaluated CYRAMZA plus FOLFIRI in metastatic colorectal cancer, the incidence of severe bleeding was 2.5% for CYRAMZA plus FOLFIRI and 1.7% for placebo plus FOLFIRI. Permanently discontinue CYRAMZA in patients who experience severe bleeding.

#### **Arterial Thromboembolic Events (ATEs)**

- Serious, sometimes fatal, ATEs including myocardial infarction, cardiac arrest, cerebrovascular accident, and cerebral ischemia occurred in clinical trials. Permanently discontinue CYRAMZA in patients who experience a severe ATE.

#### **Hypertension**

- An increased incidence of severe hypertension occurred in patients receiving CYRAMZA as a single agent (8%) as compared to placebo (3%), in patients receiving CYRAMZA plus paclitaxel (15%) as compared to placebo plus paclitaxel (3%), and in patients receiving CYRAMZA plus docetaxel (6%) as compared to placebo plus docetaxel (2%), and in patients receiving CYRAMZA plus FOLFIRI (11%) as compared to placebo plus FOLFIRI (3%). Monitor blood pressure every 2 weeks or more frequently as indicated during treatment. Temporarily suspend CYRAMZA for severe hypertension until medically controlled. Permanently discontinue CYRAMZA if medically significant hypertension cannot be controlled with antihypertensive therapy or in patients with hypertensive crisis or hypertensive encephalopathy.

#### **Infusion-Related Reactions (IRRs)**

- Prior to the institution of premedication recommendations across clinical trials of CYRAMZA, IRRs occurred in 6 out of 37 patients (16%), including 2 severe events. The majority of IRRs across trials occurred during or following a first or second CYRAMZA infusion. Monitor patients during the infusion for signs and symptoms of IRRs in a setting with available resuscitation equipment. Immediately and permanently discontinue CYRAMZA for grade 3 or 4 IRRs.

#### **Gastrointestinal Perforations**

- Four of 570 patients (0.7%) who received CYRAMZA as a single agent in advanced gastric cancer clinical trials experienced gastrointestinal perforation. In study 2, the incidence of gastrointestinal perforation was 1.2% for CYRAMZA plus paclitaxel as compared to 0.3% for placebo plus paclitaxel. In study 3, the incidence of gastrointestinal perforation was 1% for CYRAMZA plus docetaxel as compared to 0.3% for placebo plus docetaxel. In study 4, the incidence of gastrointestinal perforation was 1.7% for CYRAMZA plus FOLFIRI and 0.6% for placebo plus FOLFIRI. Permanently discontinue CYRAMZA in patients who experience a gastrointestinal perforation.

#### **Impaired Wound Healing**

- CYRAMZA has not been studied in patients with serious or nonhealing wounds. CYRAMZA has the potential to adversely affect wound healing. Discontinue CYRAMZA therapy in patients with impaired wound healing. Withhold CYRAMZA prior to surgery. Resume CYRAMZA following the surgical intervention based on clinical judgment of adequate wound healing. If a patient develops wound healing complications during therapy, discontinue CYRAMZA until the wound is fully healed.

#### **Deterioration in Child-Pugh B or C Cirrhosis**

- Clinical deterioration, manifested by new onset or worsening encephalopathy, ascites, or hepatorenal syndrome, was reported in patients with Child-Pugh B or C cirrhosis who received single-agent CYRAMZA.

#### **Reversible Posterior Leukoencephalopathy Syndrome (RPLS)**

- RPLS has been reported at a rate of <0.1% in clinical studies with CYRAMZA. Discontinue CYRAMZA in patients who develop RPLS. Symptoms may resolve or improve within days, although some patients with RPLS can experience ongoing neurologic sequelae or death.

#### **Proteinuria Including Nephrotic Syndrome**

- In study 4, severe proteinuria occurred more frequently in patients treated with CYRAMZA plus FOLFIRI compared to patients receiving placebo plus FOLFIRI. Severe proteinuria was reported in 3% of patients treated with CYRAMZA plus FOLFIRI (including 3 cases [0.6%] of nephrotic syndrome) compared to 0.2% of patients treated with placebo plus FOLFIRI. Monitor proteinuria by urine dipstick and/or urinary protein creatinine ratio for the development of worsening of proteinuria during CYRAMZA therapy. Withhold CYRAMZA for urine protein levels that are  $\geq 2$  g over 24 hours. Reinitiate CYRAMZA at a reduced dose once the urine protein level returns to <2 g over 24 hours. Permanently discontinue CYRAMZA for urine protein levels >3 g over 24 hours or in the setting of nephrotic syndrome.

#### **Thyroid Dysfunction**

- Monitor thyroid function during treatment with CYRAMZA. In study 4, the incidence of hypothyroidism reported as an

adverse event was 2.6% in the CYRAMZA plus FOLFIRI-treated patients and 0.9% in the placebo plus FOLFIRI-treated patients.

### **Embryofetal Toxicity**

- Based on its mechanism of action, CYRAMZA can cause fetal harm when administered to pregnant women. Animal models link angiogenesis, VEGF, and VEGF Receptor 2 (VEGFR2) to critical aspects of female reproduction, embryofetal development, and postnatal development. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with CYRAMZA and for at least 3 months after the last dose of CYRAMZA.

### **Most Common Adverse Reactions—Single Agent**

- The most commonly reported adverse reactions (all grades; grade 3/4) occurring in  $\geq 5\%$  of patients receiving CYRAMZA and  $\geq 2\%$  higher than placebo in study 1 were hypertension (16% vs 8%; 8% vs 3%), diarrhea (14% vs 9%; 1% vs 2%), headache (9% vs 3%; 0% vs 0%), and hyponatremia (6% vs 2%; 3% vs 1%).
- The most common serious adverse events with CYRAMZA in study 1 were anemia (3.8%) and intestinal obstruction (2.1%). Red blood cell transfusions were given to 11% of CYRAMZA-treated patients vs 8.7% of patients who received placebo.
- Clinically relevant adverse reactions reported in  $\geq 1\%$  and  $< 5\%$  of CYRAMZA-treated patients vs placebo in study 1 were: neutropenia (4.7% vs 0.9%), epistaxis (4.7% vs 0.9%), rash (4.2% vs 1.7%), intestinal obstruction (2.1% vs 0%), and arterial thromboembolic events (1.7% vs 0%).
- Across clinical trials of CYRAMZA administered as a single agent, clinically relevant adverse reactions (including grade  $\geq 3$ ) reported in CYRAMZA-treated patients included proteinuria, gastrointestinal perforation, and infusion-related reactions. In study 1, according to laboratory assessment, 8% of CYRAMZA-treated patients developed proteinuria vs 3% of placebo-treated patients. Two patients discontinued CYRAMZA due to proteinuria. The rate of gastrointestinal perforation in study 1 was 0.8% and the rate of infusion-related reactions was 0.4%.

### **Most Common Adverse Reactions—Combination With Paclitaxel**

- The most commonly reported adverse reactions (all grades; grade 3/4) occurring in  $\geq 5\%$  of patients receiving CYRAMZA plus paclitaxel and  $\geq 2\%$  higher than placebo plus paclitaxel in study 2 were fatigue/asthenia (57% vs 44%; 12% vs 6%), neutropenia (54% vs 31%; 41% vs 19%), diarrhea (32% vs 23%; 4% vs 2%), epistaxis (31% vs 7%; 0% vs 0%), hypertension (25% vs 6%; 15% vs 3%), peripheral edema (25% vs 14%; 2% vs 1%), stomatitis (20% vs 7%; 1% vs 1%), proteinuria (17% vs 6%; 1% vs 0%), thrombocytopenia (13% vs 6%; 2% vs 2%), hypoalbuminemia (11% vs 5%; 1% vs 1%), and gastrointestinal hemorrhage events (10% vs 6%; 4% vs 2%).
- The most common serious adverse events with CYRAMZA plus paclitaxel in study 2 were neutropenia (3.7%) and febrile neutropenia (2.4%); 19% of patients treated with CYRAMZA plus paclitaxel received granulocyte colony-stimulating factors.
- Adverse reactions resulting in discontinuation of any component of the CYRAMZA plus paclitaxel combination in 2% or more patients in study 2 were neutropenia (4%) and thrombocytopenia (3%).
- Clinically relevant adverse reactions reported in  $\geq 1\%$  and  $< 5\%$  of the CYRAMZA plus paclitaxel-treated patients in study 2 were sepsis (3.1% for CYRAMZA plus paclitaxel vs 1.8% for placebo plus paclitaxel) and gastrointestinal perforations (1.2% for CYRAMZA plus paclitaxel vs 0.3% for placebo plus paclitaxel).

### **Most Common Adverse Reactions—Combination With Docetaxel**

- The most commonly reported adverse reactions (all grades; grade 3/4) occurring in  $\geq 5\%$  of patients receiving CYRAMZA plus docetaxel and  $\geq 2\%$  higher than placebo plus docetaxel in study 3 were neutropenia (55% vs 46%; 49% vs 40%), fatigue/asthenia (55% vs 50%; 14% vs 11%), stomatitis/mucosal inflammation (37% vs 19%; 7% vs 2%), epistaxis (19% vs 7%;  $< 1\%$  vs  $< 1\%$ ), febrile neutropenia (16% vs 10%; 16% vs 10%), peripheral edema (16% vs 9%; 0% vs  $< 1\%$ ), thrombocytopenia (13% vs 5%; 3% vs  $< 1\%$ ), lacrimation increased (13% vs 5%;  $< 1\%$  vs 0%), and hypertension (11% vs 5%; 6% vs 2%).
- The most common serious adverse events with CYRAMZA plus docetaxel in study 3 were febrile neutropenia (14%), pneumonia (6%), and neutropenia (5%). The use of granulocyte colony-stimulating factors was 42% in CYRAMZA plus docetaxel-treated patients versus 37% in patients who received placebo plus docetaxel.
- In patients  $\geq 65$  years of age, there were 18 (8%) deaths on treatment or within 30 days of discontinuation for CYRAMZA plus docetaxel and 9 (4%) deaths for placebo plus docetaxel. In patients  $< 65$  years of age, there were 13 (3%) deaths on treatment or within 30 days of discontinuation for CYRAMZA plus docetaxel and 26 (6%) deaths for placebo plus docetaxel.
- Treatment discontinuation due to adverse reactions occurred more frequently in CYRAMZA plus docetaxel-treated patients (9%) than in placebo plus docetaxel-treated patients (5%). The most common adverse events leading to treatment discontinuation of CYRAMZA in study 3 were infusion-related reaction (0.5%) and epistaxis (0.3%).

- For patients with nonsquamous histology, the overall incidence of pulmonary hemorrhage was 7% and the incidence of grade  $\geq 3$  pulmonary hemorrhage was 1% for CYRAMZA plus docetaxel compared to 6% overall incidence and 1% for grade  $\geq 3$  pulmonary hemorrhage for placebo plus docetaxel. For patients with squamous histology, the overall incidence of pulmonary hemorrhage was 10% and the incidence of grade  $\geq 3$  pulmonary hemorrhage was 2% for CYRAMZA plus docetaxel compared to 12% overall incidence and 2% for grade  $\geq 3$  pulmonary hemorrhage for placebo plus docetaxel.
- Clinically relevant adverse reactions reported in  $\geq 1\%$  and  $< 5\%$  of CYRAMZA plus docetaxel-treated patients in study 3 were hyponatremia (4.8% CYRAMZA plus docetaxel versus 2.4% for placebo plus docetaxel) and proteinuria (3.3% CYRAMZA plus docetaxel versus 0.8% placebo plus docetaxel).

#### Most Common Adverse Reactions—Combination With FOLFIRI

- The most commonly reported adverse reactions (all grades; grade 3/4) occurring in  $\geq 5\%$  of patients receiving CYRAMZA plus FOLFIRI and  $\geq 2\%$  higher than placebo plus FOLFIRI in study 4 were diarrhea (60% vs 51%; 11% vs 10%), neutropenia (59% vs 46%; 38% vs 23%), decreased appetite (37% vs 27%; 2% vs 2%), epistaxis (33% vs 15%; 0% vs 0%), stomatitis (31% vs 21%; 4% vs 2%), thrombocytopenia (28% vs 14%; 3% vs  $< 1\%$ ), hypertension (26% vs 9%; 11% vs 3%), peripheral edema (20% vs 9%;  $< 1\%$  vs 0%), proteinuria (17% vs 5%; 3% vs  $< 1\%$ ), palmar-plantar erythrodysesthesia syndrome (13% vs 5%; 1% vs  $< 1\%$ ), gastrointestinal hemorrhage events (12% vs 7%; 2% vs 1%), hypoalbuminemia (6% vs 2%; 1% vs 0%). Twenty percent of patients treated with CYRAMZA plus FOLFIRI received granulocyte colony-stimulating factors.
- The most common serious adverse events with CYRAMZA plus FOLFIRI were diarrhea (3.6%), intestinal obstruction (3.0%), and febrile neutropenia (2.8%).
- Treatment discontinuation of any study drug due to adverse reactions occurred more frequently in CYRAMZA plus FOLFIRI-treated patients (29%) than in placebo plus FOLFIRI-treated patients (13%). The most common adverse reactions leading to discontinuation of any component of CYRAMZA plus FOLFIRI as compared to placebo plus FOLFIRI were neutropenia (12.5% versus 5.3%) and thrombocytopenia (4.2% versus 0.8%). The most common adverse reactions leading to treatment discontinuation of CYRAMZA were proteinuria (1.5%) and gastrointestinal perforation (1.7%).
- Clinically relevant adverse reactions reported in  $\geq 1\%$  and  $< 5\%$  of CYRAMZA plus FOLFIRI-treated patients in study 4 consisted of gastrointestinal perforation (1.7% CYRAMZA plus FOLFIRI versus 0.6% for placebo plus FOLFIRI).
- Thyroid-stimulating hormone (TSH) was evaluated in 224 patients (115 CYRAMZA plus FOLFIRI-treated patients and 109 placebo plus FOLFIRI-treated patients) with normal baseline TSH levels. Increased TSH was observed in 53 (46%) patients treated with CYRAMZA plus FOLFIRI compared with 4 (4%) patients treated with placebo plus FOLFIRI.

#### Drug Interactions

- No pharmacokinetic interactions were observed between ramucirumab and paclitaxel, between ramucirumab and docetaxel, or between ramucirumab and irinotecan or its active metabolite, SN-38.

#### Use in Specific Populations

- **Pregnancy:** Based on its mechanism of action, CYRAMZA can cause fetal harm. Animal models link angiogenesis, VEGF, and VEGF Receptor 2 (VEGFR2) to critical aspects of female reproduction, embryofetal development, and postnatal development. There are no available data on CYRAMZA use in pregnant women to inform any drug-associated risks. No animal studies have been conducted to evaluate the effect of ramucirumab on reproduction and fetal development. Advise females of reproductive potential of the potential risk for maintaining pregnancy, risk to the fetus, and risk to newborn and pediatric development, and to use effective contraception during CYRAMZA therapy and for at least 3 months following the last dose of CYRAMZA.
- **Lactation:** Because of the potential risk for serious adverse reactions in nursing infants from ramucirumab, advise women that breastfeeding is not recommended during treatment with CYRAMZA.
- **Females of Reproductive Potential:** Advise females of reproductive potential that based on animal data CYRAMZA may impair fertility.

Please see full [Prescribing Information](#) for CYRAMZA, including **Boxed Warning for hemorrhage, gastrointestinal perforation, and impaired wound healing**.

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#### About Lilly Oncology

For more than 50 years, Lilly has been dedicated to delivering life-changing medicines and support to people living with cancer and those who care for them. Lilly is determined to build on this heritage and continue making life better for all those affected by cancer around the world. To learn more about Lilly's commitment to people with cancer, please visit [www.LillyOncology.com](http://www.LillyOncology.com).

#### About Eli Lilly and Company

Lilly is a global healthcare leader that unites caring with discovery to create medicines that make life better for people around the world. We were founded more than a century ago by a man committed to creating high-quality medicines that meet real needs, and today we remain true to that mission in all our work. Across the globe, Lilly employees work to discover and bring life-changing medicines to those who need them, improve the understanding and management of disease, and give back to communities through philanthropy and volunteerism. To learn more about Lilly, please

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### Lilly Forward-Looking Statement

This press release contains forward-looking statements (as that term is defined in the Private Securities Litigation Reform Act of 1995) about the RELAY trial and CYRAMZA as a potential treatment for patients with EGFR mutation-positive metastatic non-small cell lung cancer and reflects Lilly's current beliefs. However, as with any pharmaceutical product, there are substantial risks and uncertainties in the process of development and commercialization. Among other things, there can be no guarantee that CYRAMZA will receive regulatory approval for EGFR mutation-positive metastatic non-small cell lung cancer or continue to be commercially successful. For further discussion of these and other risks and uncertainties, see Lilly's most recent Form 10-K and Form 10-Q filings with the United States Securities and Exchange Commission. Except as required by law, Lilly undertakes no duty to update forward-looking statements to reflect events after the date of this release.

<sup>1</sup> International Agency for Research on Cancer. 2018 Lung Cancer Fact Sheet. Available at: <http://gco.iarc.fr/today/data/factsheets/cancers/15-Lung-fact-sheet.pdf>. Accessed March 11, 2019.

<sup>2</sup> American Cancer Society. Cancer Facts and Figures 2018. Available at: <https://www.cancer.org/content/dam/cancer-org/research/cancer-facts-and-statistics/annual-cancer-facts-and-figures/2018/cancer-facts-and-figures-2018.pdf>. Accessed March 11, 2019.

<sup>3</sup> American Cancer Society. What is non-small cell lung cancer? Available at: <http://www.cancer.org/cancer/lungcancer-non-smallcell/detailedguide/non-small-cell-lung-cancer-what-is-non-small-cell-lung-cancer>. Accessed March 11, 2019.

<sup>4</sup> American Cancer Society. Non-Small Cell Lung Cancer Survival Rates, by Stage. Available at: <http://www.cancer.org/cancer/lungcancer-non-smallcell/detailedguide/non-small-cell-lung-cancer-survival-rates>. Accessed March 11, 2019.

<sup>5</sup> Dong L, Lei D, Zhang H. Clinical strategies for acquired epidermal growth factor receptor tyrosine kinase inhibitor resistance in non-small-cell lung cancer patients. *Oncotarget*. 2017 Sep 8; 8(38): 64600–64606.

<sup>6</sup> Girard N. Optimizing outcomes in EGFR mutation-positive NSCLC: which tyrosine kinase inhibitor and when? *Future Oncol*. 2018 May;14(11):1117-1132. doi: 10.2217/fo-2017-0636.

<sup>7</sup> Hirsh V. Turning EGFR mutation-positive non-small-cell lung cancer into a chronic disease: optimal sequential therapy with EGFR tyrosine kinase inhibitors. *Ther Adv Med Oncol*. 2018 Jan 22;10:1758834017753338. doi: 10.1177/1758834017753338.

<sup>8</sup> National Comprehensive Cancer Network. NCCN Clinical Practice Guidelines in Oncology 2019: Non-Small Cell Lung Cancer (Version 3). [https://www.nccn.org/professionals/physician\\_gls/pdf/nscl.pdf](https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf). Accessed March 11, 2019.

<sup>9</sup> Midha A, Dearden S, McCormack R. EGFR mutation incidence in non-small-cell lung cancer of adenocarcinoma histology: a systematic review and global map by ethnicity (mutMapII). *Am J Cancer Res*. 2015 Aug 15;5(9):2892-911.

<sup>10</sup> Ladanyi M, Pao W. Lung adenocarcinoma: guiding EGFR-targeted therapy and beyond. *Mod Pathol*. 2008 May;21 Suppl 2:S16-22. doi: 10.1038/modpathol.3801018.

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