

# PRODUCT MONOGRAPH

INCLUDING PATIENT MEDICATION INFORMATION

 **TAGRISSO**<sup>®</sup>

osimertinib tablets

40 mg and 80 mg osimertinib as osimertinib mesylate

Epidermal Growth Factor Receptor (EGFR) Tyrosine Kinase Inhibitor

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**Pr**TAGRIS<sup>®</sup>

osimertinib tablets

## PART I: HEALTH PROFESSIONAL INFORMATION

### SUMMARY PRODUCT INFORMATION

<b>Route of Administration</b>	<b>Pharmaceutical Form/Strength</b>	<b>Clinically Relevant Non-medical Ingredients</b>
Oral	Tablets, 40 mg and 80 mg	None. <i>For a complete listing of non-medical ingredients see DOSAGE FORMS, COMPOSITION AND PACKAGING.</i>

### INDICATIONS AND CLINICAL USE

#### **EGFR Mutation-Positive NSCLC**

TAGRIS<sup>®</sup> (osimertinib) is indicated for the first-line treatment of patients with locally advanced (not amenable to curative therapies), or metastatic non-small cell lung cancer (NSCLC) whose tumours have epidermal growth factor receptor (EGFR) exon 19 deletions or exon 21 (L858R) substitution mutations (either alone or in combination with other EGFR mutations).

- A validated test is required to identify EGFR mutation-positive status prior to treatment (see WARNINGS AND PRECAUTIONS, Assessment of EGFR Mutation Status, and Monitoring and Laboratory Tests).

#### **EGFR T790M Mutation-Positive NSCLC**

TAGRIS<sup>®</sup> is indicated for the treatment of patients with locally advanced or metastatic EGFR T790M mutation-positive NSCLC whose disease has progressed on or after EGFR tyrosine kinase inhibitor (TKI) therapy.

- A validated test is required to identify EGFR T790M mutation-positive status prior to treatment (see WARNINGS AND PRECAUTIONS, Assessment of EGFR T790M Mutation Status, and Monitoring and Laboratory Tests).
- Marketing authorization was based on results from a randomized Phase III trial (AURA3) demonstrating that TAGRIS<sup>®</sup> is superior to chemotherapy in prolonging progression-free survival (PFS) as assessed by investigator using RECIST v1.1.

**Geriatrics (≥65 years of age):** Older patients reported more Grade 3 or higher adverse reactions compared to younger patients (13.4% versus 9.3%) in the FLAURA and AURA trials (n=1142). No overall differences in efficacy or predicted steady state exposure of osimertinib were observed between these patients and younger patients. See WARNINGS AND PRECAUTIONS, Special Populations, DOSAGE AND ADMINISTRATION, Special Populations and ACTION AND CLINICAL PHARMACOLOGY, Special Populations and Conditions.

**Pediatrics (<18 years of age):** The safety and efficacy of TAGRISSO in children below 18 years of age have not been established. There are currently no available data.

## CONTRAINDICATIONS

Do not use TAGRISSO (osimertinib) in patients who are hypersensitive to this drug or to any ingredient in the formulation or component of the container. For a complete listing of ingredients, see the DOSAGE FORMS, COMPOSITION AND PACKAGING section of the Product Monograph.

## WARNINGS AND PRECAUTIONS

### Serious Warnings and Precautions

Treatment with TAGRISSO (osimertinib) should be initiated by a qualified physician experienced in the use of anticancer therapies.

Interstitial lung disease (e.g., pneumonitis), including fatal cases (see WARNINGS AND PRECAUTIONS, Respiratory and ADVERSE REACTIONS).

QTcF interval prolongation (see WARNINGS AND PRECAUTIONS, Cardiovascular, Monitoring and Laboratory Tests; ADVERSE REACTIONS, QT Interval Prolongation and ECG Findings; DRUG INTERACTIONS, Drug-Drug Interactions and DOSAGE AND ADMINISTRATION).

Left Ventricular Dysfunction and Cardiomyopathy (see WARNINGS AND PRECAUTIONS, Cardiovascular, Monitoring and Laboratory Tests; ADVERSE REACTIONS, Left Ventricular Performance and DOSAGE AND ADMINISTRATION).

### General

**Assessment of EGFR Mutation Status:** Prior to the use of TAGRISSO as a first-line treatment for patients with locally advanced or metastatic NSCLC whose tumours have EGFR mutations, it is necessary that EGFR mutation-positive status (EGFR exon 19 deletions or exon 21 (L858R) substitution mutations) in tumour specimens is determined using a validated

test method by laboratories with demonstrated proficiency in the specific technology being used.

Prior to the use of TAGRISSO as a treatment for locally advanced or metastatic NSCLC that has progressed on or after EGFR TKI therapy, it is necessary that EGFR T790M mutation-positive status in tumour specimens is determined using a validated test method by laboratories with demonstrated proficiency in the specific technology being used. See WARNINGS AND PRECAUTIONS, Monitoring and Laboratory Tests and Part II: CLINICAL TRIALS. A validated and robust methodology is necessary to minimize false negative and false positive results.

**Drug Interactions:** Strong CYP3A4 inducers decrease osimertinib exposure (see DRUG INTERACTIONS). Avoid co-administration of strong CYP3A4 inducers (such as rifampicin, phenytoin, carbamazepine and St. John's Wort) with TAGRISSO. If concurrent use is unavoidable, increase TAGRISSO dosage to 160 mg daily when co-administering with a strong CYP3A4 inducer and continue dosage at 160 mg daily for 3 weeks following discontinuation of the strong CYP3A4 inducer. Resume TAGRISSO dosage at 80 mg daily 3 weeks after discontinuation of a strong CYP3A4 inducer.

TAGRISSO increases the exposure of breast cancer resistant protein (BCRP) and/or P-glycoprotein (P-gp) substrates. Patients taking concomitant medications with disposition dependent upon BCRP or P-gp and with narrow therapeutic indices should be closely monitored for signs of changed tolerability as a result of increased exposure of the concomitant medication whilst receiving TAGRISSO (see DRUG INTERACTIONS).

**Effects on ability to drive and use machines:** No studies on the effects on the ability to drive and use machines have been performed. If patients experience visual impairment, dizziness or other symptoms affecting their ability to concentrate and react, it is recommended that they do not drive or use machines until the effect subsides.

### **Cardiovascular**

**QT Interval Prolongation:** QTc interval prolongation has been observed in 6.0% (69 of 1142) of patients treated with TAGRISSO. Of the 1142 patients in FLAURA and AURA trials treated with TAGRISSO 80 mg, 0.9% of patients (n=10) were found to have a QTc greater than 500 msec, and 3.6% of patients (n=41) had an increase in QTc from baseline of greater than 60 msec. A pharmacokinetic/pharmacodynamic analysis with TAGRISSO predicted a concentration-dependent increase in QTc interval prolongation. No QTc-related arrhythmias were reported in the FLAURA or AURA trials. Patients with clinically important abnormalities in rhythm and conduction and patients with resting QTc interval greater than 470 msec were excluded from these trials.

QTc prolongation may lead to an increased risk of ventricular arrhythmias including torsade de pointes. Torsade de pointes is a polymorphic ventricular tachyarrhythmia. Generally, the risk of torsade de pointes increases with the magnitude of QTc prolongation produced by the drug. Torsade de pointes may be asymptomatic or experienced by the patient as dizziness,

palpitations, syncope, or seizures. If sustained, torsade de pointes can progress to ventricular fibrillation and sudden cardiac death.

Risk factors for torsade de pointes in the general population include, but are not limited to, the following: female gender; age  $\geq 65$  years; baseline prolongation of the QT/QTc interval; presence of genetic variants affecting cardiac ion channels or regulatory proteins, especially congenital long QT syndromes; family history of sudden cardiac death at  $< 50$  years of age; cardiac disease (e.g., myocardial ischemia or infarction, congestive heart failure, cardiomyopathy, conduction system disease); history of arrhythmias; electrolyte disturbances (e.g., hypokalemia, hypomagnesemia, hypocalcemia) or conditions leading to electrolyte disturbances (e.g., persistent vomiting, eating disorders); bradycardia; acute neurological events (e.g., intracranial or subarachnoid haemorrhage, stroke, intracranial trauma); diabetes mellitus; and autonomic neuropathy.

Treatment with TAGRISSO is not recommended in patients with congenital long QT syndrome, or who are taking medicinal products known to prolong the QTc interval (see DRUG INTERACTIONS). Hypokalemia, hypomagnesemia, and hypocalcemia should be corrected prior to TAGRISSO administration.

Particular care should be exercised when administering TAGRISSO to patients who are suspected to be at an increased risk of experiencing torsade de pointes during treatment with a QTc-prolonging drug (see DRUG INTERACTIONS).

In a Phase II trial (AURA2), during steady-state treatment on Day 43, mean changes from baseline in the QTc interval ranged from 13.0 msec (95% CI: 11.0, 14.9) to 16.2 msec (95% CI: 14.1, 18.3) over the course of the day.

When possible, avoid use of TAGRISSO in patients with congenital long QT syndrome. Monitor electrocardiograms (ECGs) prior to initiating and periodically during treatment (see Monitoring and Laboratory Tests). Withhold TAGRISSO in patients who develop a QTc interval greater than 500 msec on at least 2 separate ECGs until the QTc interval is less than 481 msec or recovery to baseline if the baseline QTc interval is greater than or equal to 481 msec, then resume TAGRISSO at a reduced dose as described in DOSAGE AND ADMINISTRATION, Dose Adjustment. Permanently discontinue TAGRISSO in patients who develop QTc interval prolongation in combination with any of the following: Torsade de pointes, polymorphic ventricular tachycardia, signs/symptoms of serious arrhythmia (see DOSAGE AND ADMINISTRATION).

When drugs that prolong the QTc interval are prescribed, healthcare professionals should counsel their patients concerning the nature and implications of the ECG changes, underlying diseases and disorders that are considered to represent risk factors, demonstrated and predicted drug-drug interactions, symptoms suggestive of arrhythmia, risk management strategies, and other information relevant to the use of the drug. Patients should be advised to contact their healthcare provider immediately to report any new chest pain or discomfort, changes in heartbeat, palpitations, dizziness, light-headedness, fainting, or changes in or new use of other medications.

## **Left Ventricular Dysfunction and Cardiomyopathy**

Across the AURA clinical trials, Left Ventricular Ejection Fraction (LVEF) decreases  $\geq 10$  percentage points and a drop to  $< 50\%$  occurred in 3.9% (35/908) of patients treated with TAGRISSO who had baseline and at least one follow-up LVEF assessment. Across clinical trials, a total of 2.6% of the 1142 TAGRISSO-treated patients reported cardiomyopathy events (defined as cardiac failure, chronic cardiac failure, congestive heart failure, pulmonary edema, ejection fraction decreased); including 1 fatal event of congestive heart failure. Based on the available clinical trial data, a causal relationship between effects on changes in cardiac contractility and TAGRISSO has not been established, however, causality cannot be completely ruled out. In patients with cardiac risk factors and those with conditions that can affect LVEF, cardiac monitoring, including an assessment of LVEF at baseline and during treatment, should be considered. In patients who develop relevant cardiac signs/symptoms during treatment, cardiac monitoring including LVEF assessment should be considered. Discontinuation of treatment with TAGRISSO should be considered in patients who develop congestive heart failure. See WARNINGS AND PRECAUTIONS, Monitoring and Laboratory Tests; DOSAGE AND ADMINISTRATION, Dose Adjustment.

## **Ophthalmologic**

Keratitis was reported in 0.7% (n=8) of the 1142 patients treated with TAGRISSO in the FLAURA and AURA trials. Patients presenting with signs and symptoms suggestive of keratitis such as acute or worsening: eye inflammation, lacrimation, light sensitivity, blurred vision, eye pain and/or red eye should be referred promptly to an ophthalmology specialist (see WARNINGS AND PRECAUTIONS, Monitoring and Laboratory Tests). Contact lens use is also known to be an independent risk factor for ocular toxicity, including keratitis. Caution should be exercised when driving or operating machinery by patients who experience vision disorder (see ADVERSE REACTIONS; DOSAGE AND ADMINISTRATION, Dose Adjustment).

## **Respiratory**

**Interstitial Lung Disease (ILD):** Interstitial Lung Disease (ILD) or ILD-like adverse reactions (e.g., pneumonitis) were reported in 3.9% and were fatal in 0.4% (n=5) of the 1142 patients who received TAGRISSO 80 mg in the FLAURA and AURA trials.

Patients with past medical history of ILD or evidence of clinically active ILD, or patients with radiation pneumonitis requiring steroid treatment were excluded from these trials.

The incidence of ILD was 10.4% in patients of Japanese ethnicity, 1.8% in patients of non-Japanese Asian ethnicity and 2.8% in non-Asian patients. The median time to onset of ILD or ILD-like adverse reactions was 2.8 months (see ADVERSE REACTIONS; DOSAGE AND ADMINISTRATION, Dosing Considerations; ACTION AND CLINICAL PHARMACOLOGY, Special Populations and Conditions).

Withhold TAGRISSO and promptly investigate for ILD in any patient who presents with worsening of respiratory symptoms indicative of ILD (e.g., dyspnea, cough and fever).

Permanently discontinue TAGRISSO if ILD is confirmed (see ADVERSE REACTIONS and DOSAGE AND ADMINISTRATION, Dose Adjustment).

### **Sexual Function/Reproduction**

**Fertility:** There are no data on the effect of TAGRISSO on human fertility. Results from animal studies have shown that TAGRISSO has effects on male and female reproductive organs and could impair fertility (see Part II: TOXICOLOGY, Reproductive Toxicology).

### **Skin**

Skin effects with TAGRISSO have been mainly mild in nature, including rash, dry skin, pruritus and nail effects. CTCAE Grade 3 events of skin effects occurred in 5/690 (0.7%) patients, which consisted of erythema in 3/690 (0.4%) patients and rash maculo-papular in 2/690 (0.3%) patients treated with TAGRISSO in the AURA trials (see ADVERSE REACTIONS). There were no reports of Grade  $\geq 4$  events.

**Bullous and exfoliative skin disorders:** Rare, non-fatal cases of Stevens-Johnson syndrome have been reported with the use of TAGRISSO treatment (see ADVERSE REACTIONS, Post-Market Adverse Drug Reactions). Before initiating treatment, patients should be advised of signs and symptoms of Stevens-Johnson syndrome. TAGRISSO should be interrupted or discontinued immediately if the patient develops severe bullous, blistering or exfoliating conditions.

**Erythema multiforme:** Based on the pooled dataset analysis of the clinical trial data, uncommon cases of erythema multiforme have been identified with the use of TAGRISSO treatment (see ADVERSE REACTIONS, Post-Market Adverse Drug Reactions). Before initiating treatment, patients should be advised of signs and symptoms of erythema multiforme. If signs and symptoms suggestive of erythema multiforme develop, close patient monitoring and drug interruption or discontinuation of TAGRISSO should be considered.

**Paronychia:** Paronychia was observed in 276/1142 (24.2%) patients who received TAGRISSO 80 mg in the FLAURA and AURA trials (n=1142) and was generally mild (166/1142, 14.5%, CTCAE Grade 1) or moderate (107/1142, 9.4%, CTCAE Grade 2) in nature. In the AURA3 trial, paronychia led to dose reduction in 0.4% (1/279) of patients with no treatment discontinuations. In the FLAURA trial, paronychia led to dose reduction in 0.4% (1/279) of patients; 0.4% (1/279) of patients discontinued due to paronychia. See ADVERSE REACTIONS. Physicians should advise patients to use moisturizers regularly on the skin and nails and to keep hands clean and dry as prevention measures. Physicians should treat paronychia accordingly.

### **Special Populations**

#### **Females and Males of Reproductive Potential**

##### ***Females***

Advise females of childbearing potential to avoid becoming pregnant while receiving TAGRISSO and use effective contraception for at least 2 months after final dose.

## ***Males***

Male patients with female partners of reproductive potential should be advised that pregnancy should be avoided while receiving TAGRISSO and for at least 4 months after final dose.

**Pregnant Women:** There are no data in pregnant women using TAGRISSO. Studies in animals have shown reproductive toxicity (see Part II: TOXICOLOGY, Reproductive Toxicology).

Based on its mechanism of action and preclinical data, TAGRISSO may cause fetal harm when administered to a pregnant woman. Administration of osimertinib to pregnant rats was associated with embryoletality, reduced fetal growth and neonatal death at exposures similar to what is expected in humans (see Part II: TOXICOLOGY, Reproductive Toxicology).

Pregnant women must be advised of the potential risk of TAGRISSO to the fetus or potential risk for miscarriage. TAGRISSO should not be used during pregnancy unless clearly necessary and after a careful consideration of the need of the mother and the risk to the fetus. Women should avoid becoming pregnant (see WARNINGS AND PRECAUTIONS, Females and Males of Reproductive Potential, Females).

**Nursing Women:** It is not known whether TAGRISSO or its metabolites are excreted in human milk. Administration to rats during gestation and early lactation was associated with adverse effects, including reduced growth rates and neonatal death. There is insufficient information on the excretion of osimertinib or its metabolites in animal milk. A risk to the breastfed child cannot be excluded. Breastfeeding should be discontinued during treatment with TAGRISSO therapy.

**Pediatrics (<18 years of age):** The safety and efficacy of TAGRISSO in children below 18 years of age have not been established. There are currently no data available.

**Geriatrics (≥65 years of age):** In FLAURA and AURA trials (n=1142), 43% of patients were ≥65 years of age, of whom 13% were ≥75 years of age. Compared with younger patients (<65 years of age), more patients ≥65 years old had reported adverse reactions that led to study drug dose modifications (interruptions or reductions) (13.4% versus 7.6%). The types of adverse reactions reported were similar regardless of age. Older patients reported more Grade 3 or higher adverse reactions compared to younger patients (13.4% versus 9.3%). No overall differences in efficacy or predicted steady state exposure of osimertinib were observed between these patients and younger patients. See DOSAGE AND ADMINISTRATION, Special Populations; ACTION AND CLINICAL PHARMACOLOGY, Special Populations and Conditions.

**Hepatic Impairment:** In a clinical trial, patients with mild hepatic impairment (Child Pugh A, n=7) or moderate hepatic impairment (Child Pugh B, n=5) had no increase in exposure compared to patients with normal hepatic function (n=10) after a single 80 mg dose of TAGRISSO. Based on a pharmacokinetic analysis of 134 patients with baseline mild hepatic impairment (total bilirubin ≤ ULN and AST >ULN or total bilirubin between 1.0 to 1.5 x

ULN and any AST), 8 patients with moderate hepatic impairment (total bilirubin between 1.5 x to 3.0 x ULN and any AST) and 1216 patients with normal hepatic function (total bilirubin  $\leq$  ULN and AST  $\leq$  ULN), osimertinib exposures were similar in these groups. Osimertinib is eliminated via hepatic metabolism. There are no data in patients with severe hepatic impairment. An appropriate dose of TAGRISSO has not been established in patients with severe hepatic impairment (see DOSAGE AND ADMINISTRATION, Hepatic Impairment and ACTION AND CLINICAL PHARMACOLOGY, Special Populations).

**Renal Impairment:** A dedicated renal impairment trial has not been conducted. Based on a population pharmacokinetic analysis of 593 patients with baseline mild renal impairment (CLCr 60 to  $<$ 90 mL/min), 254 patients with moderate renal impairment (CLCr 30 to  $<$ 60 mL/min), 5 patients with severe renal impairment (CLCr 15 to  $<$ 30 mL/min) and 502 patients with normal renal function ( $\geq$ 90 mL/min), osimertinib exposures were similar. The safety and efficacy of TAGRISSO has not been established in patients with end-stage renal disease (CLCr  $<$ 15 mL/min) or on dialysis. An appropriate dose of TAGRISSO has not been established in patients with end-stage renal impairment (see DOSAGE AND ADMINISTRATION, Renal Impairment and ACTION AND CLINICAL PHARMACOLOGY, Special Populations and Conditions).

### **Monitoring and Laboratory Tests**

**Assessment of EGFR Mutation Status:** See WARNINGS AND PRECAUTIONS, Assessment of EGFR Mutation Status and Part II: CLINICAL TRIALS.

**ECG Monitoring:** ECG evaluations should be performed prior to initiating therapy with TAGRISSO, and periodically during treatment to monitor for QTc prolongation (see WARNINGS AND PRECAUTIONS, Cardiovascular; ADVERSE REACTIONS, ECG Findings; DRUG INTERACTIONS; DOSAGE AND ADMINISTRATION).

**Electrolyte Monitoring:** Electrolyte levels (calcium, potassium, and magnesium) should be assessed prior to initiating therapy with TAGRISSO, and monitored periodically during treatment with TAGRISSO, particularly in patients at risk for these electrolyte abnormalities (see WARNINGS AND PRECAUTIONS, Cardiovascular; DRUG INTERACTIONS). Hypocalcemia, hypokalemia, and hypomagnesemia should be corrected prior to TAGRISSO administration.

**Left Ventricular Ejection Fraction Monitoring:** Cardiac monitoring including an assessment of left ventricular ejection fraction (LVEF) at baseline and during treatment should be considered for patients with cardiac risk factors. Consider cardiac monitoring including LVEF assessment in patients who develop relevant cardiac signs/symptoms during treatment. Discontinuation of treatment with TAGRISSO should be considered in patients who develop congestive heart failure (see WARNINGS AND PRECAUTIONS, Cardiovascular; ADVERSE REACTIONS, Left Ventricular Performance; DOSAGE AND ADMINISTRATION, Dose Adjustment).

**Ophthalmologic Monitoring:** Patients presenting with signs and symptoms suggestive of keratitis such as acute or worsening: eye inflammation, lacrimation, light sensitivity, blurred vision, eye pain and/or red eye should be referred promptly to an ophthalmology specialist (see ADVERSE REACTIONS; DOSAGE AND ADMINISTRATION, Dose Adjustment).

## ADVERSE REACTIONS

### Adverse Drug Reaction Overview

The data described below reflect exposure to TAGRISSO (80 mg daily) from pooled Phase I [AURA1 (n=173)], Phase II [AURA extension (n=201), AURA2 (n=210)] and Phase III [FLAURA (n=279) and AURA3 (n=279)] data from 1142 patients with locally advanced or metastatic EGFR mutation-positive NSCLC (see Part II: CLINICAL TRIALS). In FLAURA, the median duration of study treatment was 16.2 months for patients receiving TAGRISSO (n=279) and 11.5 months for patients receiving EGFR TKI comparator. In AURA3, the median duration of exposure was 8.1 months for patients receiving TAGRISSO (n=279) and 4.2 months for patients receiving chemotherapy (n=136). The overall median duration of exposure for 1142 patients receiving TAGRISSO in the FLAURA and AURA trials was 12.9 months.

Patients with a medical history of ILD, drug-induced ILD, radiation pneumonitis that required steroid treatment, or any evidence of clinically active ILD were excluded from clinical trials. Patients with clinically important abnormalities in rhythm and conduction as measured by resting electrocardiogram (ECG) (e.g., QTc interval greater than 470 msec) were excluded from these trials. Patients had LVEF evaluation at screening and every 12 weeks thereafter.

In the FLAURA and AURA trials (n=1142), CTCAE Grade 1 and 2 events were reported in 44.0% and 32.8% of patients, respectively. Grade 3 or higher adverse events with TAGRISSO were reported in 38.0% of patients. SAEs were reported in 28.1% of patients. AEs leading to death were reported in 3.6% of patients.

The most commonly reported (in  $\geq 10\%$  of patients) all-causality adverse drug reactions (ADRs) (n=1142) were diarrhea (48.6%), rash grouped term (46.8%), dry skin [(32.6%) (including 14.5% dermatitis acneiform and 6.3% skin fissures)], nail toxicity [(31.3%) (including 24.2% paronychia)], stomatitis (20.1%) and pruritus (17.0%). ADRs reported as adverse events or laboratory changes with a Grade  $\geq 3$  severity were decreased lymphocytes count (7.2%), neutrophil count (4.1%), leukocyte count (1.5%) and platelet count (1.6%), as

well as diarrhea (1.0%), QTcF prolongation (0.9%) and ILD (0.6% Grade 3/4; 0.7% fatal). Diarrhea (0.1%) and ILD (1.7%) were also reported as Serious Adverse Events (SAEs).

In the FLAURA and AURA trials, the incidence of ILD-like adverse reactions was 10.4% in patients of Japanese ethnicity, 1.8% in patients of non-Japanese Asian ethnicity and 2.8% in non-Asian patients. The median time to onset of ILD or ILD-like adverse reactions was 2.8 months (see WARNINGS AND PRECAUTIONS, Respiratory; DOSAGE AND ADMINISTRATION, Dosing Considerations; ACTION AND CLINICAL PHARMACOLOGY, Special Populations and Conditions).

In patients treated with TAGRISSO 80 mg once daily, ADRs that led to dose modification (interruption or reduction) occurred in 10.1% (115/1142) of the patients. Dose reductions due to ADRs occurred in 2.7% (31/1142) of the patients. Discontinuation due to adverse reactions was 4.3% (49/1142). The most frequent adverse drug reaction leading to discontinuation of TAGRISSO was ILD/pneumonitis (3.4% [39/1142]).

Fatal adverse drug reactions were reported in 0.4% (5/1142) of TAGRISSO-treated patients. SAEs (regardless of causality) were reported in 28.1% (321/1142) of TAGRISSO-treated patients.

### Clinical Trial Adverse Drug Reactions

*Because clinical trials are conducted under very specific conditions the adverse reaction rates observed in the clinical trials may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse drug reaction information from clinical trials is useful for identifying drug-related adverse events and for approximating rates.*

### FLAURA Trial

Tables below summarize the adverse drug reactions regardless of investigator assessed causality (Table 1) and laboratory abnormalities (Table 1 and Table 2) observed in previously untreated EGFR mutation positive NSCLC patients treated with 80 mg TAGRISSO in the FLAURA Phase III clinical trial.

**Table 1 Adverse drug reactions reported in FLAURA<sup>a</sup> (Safety analysis set)**

Preferred term	TAGRISSO (N=279)		EGFR TKI comparator (gefitinib or erlotinib) (N=277)	
	All	3 or Higher	All	3 or Higher
<b>CTCAE Grade<sup>b</sup> n(%)</b>				
<b>Eye Disorders</b>				
Keratitis <sup>d</sup>	1 (0.4)	0 (0)	4 (1.4)	0 (0)
<b>Gastrointestinal Disorders</b>				
Diarrhea <sup>e</sup>	161 (57.7)	6 (2.2)	159 (57.4)	7 (2.5)
Stomatitis	80 (28.7)	2 (0.7)	56 (20.2)	1 (0.4)

Preferred term	TAGRISSO (N=279)		EGFR TKI comparator (gefitinib or erlotinib) (N=277)	
<b>Infection and Infestation</b>				
Upper respiratory tract infection	28 (10.0)	0	18 (6.5)	0
<b>Investigations</b>				
Electrocardiogram QT prolonged <sup>d</sup>	28 (10.0)	6 (2.2)	11 (4.0)	2 (0.7)
<b>Respiratory, Thoracic and Mediastinal Disorders</b>				
Interstitial Lung Disease <sup>c</sup>	11 (3.9)	3 (1.1)	6 (2.2)	4 (1.4)
<b>Skin disorders</b>				
Rash <sup>f</sup>	161 (57.7)	3 (1.1)	216 (78.0)	19 (6.9)
Dry skin <sup>g</sup>	100 (35.8)	1 (0.4)	100 (36.1)	3 (1.1)
Paronychia <sup>h</sup>	97 (34.8)	1 (0.4)	91 (32.9)	2 (0.7)
Pruritus <sup>i</sup>	48 (17.2)	1 (0.4)	46 (16.6)	0 (0)
<b>Findings based on test results presented as CTCAE grade shifts</b>				
Platelet count decreased <sup>k</sup>	138 (50.5)	2 (0.7)	33(12.3)	1 (0.4)
Leukocytes decreased <sup>k</sup>	191 (71.8)	1 (0.4)	82 (31.4)	1 (0.4)
Lymphocytes decreased <sup>k</sup>	168 (62.9)	15 (5.6)	94 (35.7)	11 (4.2)
Neutrophils decreased <sup>k</sup>	109 (40.8)	8 (3.0)	27 (10.3)	0 (0)

<sup>a</sup> Only events for patients receiving at least one dose of TAGRISSO as their randomized treatment are summarized. Frequency reported in this table are regardless of causality.

<sup>b</sup> National Cancer Institute Common Terminology Criteria for Adverse Events, version 4.0

<sup>c</sup> Cases reported within the clustered terms: Interstitial lung disease, pneumonitis.

<sup>d</sup> Cases reported within the clustered terms: Keratitis, punctate keratitis, corneal erosion, corneal epithelium defect.

<sup>e</sup> 1 CTCAE grade 5 event (fatal) was reported in the EGFR TKI comparator arm.

<sup>f</sup> Cases reported within the clustered terms for rash AEs: Rash, rash generalized, rash erythematous, rash macular, rash maculo-papular, rash papular, rash pustular, rash pruritic, rash vesicular, rash follicular, erythema, folliculitis, acne, dermatitis, dermatitis acneiform, drug eruption, skin erosion.

<sup>g</sup> Cases reported within the clustered terms: Dry skin, skin fissures, xerosis, eczema, xeroderma.

<sup>h</sup> Cases reported within the clustered terms: Nail bed disorder, nail bed inflammation, nail bed infection, nail discoloration, nail pigmentation, nail disorder, nail toxicity, nail dystrophy, nail infection, nail ridging, onychoclasia, onycholysis, onychomadesis, onychomalacia, paronychia.

<sup>i</sup> Cases reported within the clustered terms: Pruritus, pruritus generalized, eyelid pruritus.

<sup>j</sup> The frequency of "Electrocardiogram QT prolonged" represents reported adverse events in the FLAURA study. Frequencies of QTc intervals of >500 ms or >60 ms are presented under QT Interval Prolongation (see WARNINGS AND PRECAUTION, Cardiovascular, QT Interval Prolongation).

<sup>k</sup> Represents the incidence of laboratory findings, not of reported adverse events.

## Abnormal Hematologic and Clinical Chemistry Findings

Table 1 includes a summary of hematologic findings from the FLAURA trial (see ADVERSE REACTIONS). Table 2 summarizes the grade shift change in clinical chemistry parameters in previously untreated first-line patients treated with TAGRISSO 80 mg and standard of care.

**Table 2 Clinical chemistry, maximum CTCAE grade shift from baseline during treatment in FLAURA (Safety analysis set)**

Parameter  CTCAE grade change  n(%) of patients	TAGRISSO 80 mg once daily (N=279)					Standard of Care (SoC) (N=277)				
	All	1	2	3	4	All	1	2	3	4
Creatinine (hyper) (TAGRISSO, n=272) (SoC, n=269)	24 (8.8)	19 (7.0)	5 (1.8)	0	0	18 (6.7)	16 (5.9)	1 (0.4)	1 (0.4)	0
ALT (increased) (TAGRISSO, n=272) (SoC, n=268)	56 (20.6)	49 (18.0)	5 (1.8)	2 (0.7)	0	138 (51.5)	90 (33.6)	27 (10.1)	19 (7.1)	2 (0.7)
AST (increased) (TAGRISSO, n=272) (SoC, n=268)	59 (21.7)	52 (19.1)	4 (1.5)	3 (1.1)	0	114 (42.5)	87 (32.5)	16 (6.0)	10 (3.7)	1 (0.4)
Total bilirubin (TAGRISSO, n=272) (SoC, n=266)	39 (14.3)	36 (13.2)	3 (1.1)	0	0	78 (29.3)	51 (19.2)	24 (9.0)	3 (1.1)	0

### **AURA3 Trial**

Tables below summarize the adverse drug reactions regardless of causality (Table 3) and laboratory abnormalities (Table 4) observed in TAGRISSO-treated patients in a randomized, open label, active-controlled Phase III trial (AURA3) in 419 patients with locally advanced or metastatic EGFR T790M mutation-positive NSCLC whose disease has progressed on or after EGFR TKI therapy.

The most common all-causality adverse reactions ( $\geq 20\%$ ) in patients treated with TAGRISSO were diarrhea (41%), rash (34%), dry skin (23%), nail toxicity (22%), and fatigue/asthenia (23%). The most common ( $\geq 1\%$ ) all-causality adverse events of CTCAE Grade  $\geq 3$  for patients treated with TAGRISSO were pulmonary embolism (1.4%), neutrophil count decreased, asthenia, decreased appetite, diarrhea, fatigue, alanine aminotransferase increased, aspartate aminotransferase increased and dyspnea (1.1% each).

The most frequent adverse reactions leading to dose reductions or interruptions were prolongation of the QT interval (1.8%), neutropenia (1.1%) and diarrhea (1.1%). Adverse reactions resulting in permanent discontinuation of TAGRISSO occurred in 7% of patients treated with TAGRISSO. The most frequent adverse reaction leading to discontinuation of TAGRISSO was ILD/pneumonitis (3.2%). Serious adverse reactions were reported in 18% of patients treated with TAGRISSO and 26% in the chemotherapy group. No single serious adverse reaction was reported in 2% or more patients treated with TAGRISSO. SAEs reported in more than 2 patients in the TAGRISSO arm were pulmonary embolism (1.4%), pneumonia (1.1%), dyspnea (1.1%), vomiting, cardiac failure, ILD, respiratory failure, back pain, road

traffic accident and pyrexia (0.7% each). One patient (0.4%) treated with TAGRISSO experienced a fatal adverse reaction (ILD/pneumonitis).

**Table 3 Adverse drug reactions reported in AURA3<sup>a</sup> (Safety analysis set)**

Preferred term CTCAE Grade <sup>b</sup> n(%) <sup>c</sup>	TAGRISSO 80 mg once daily (N=279)				Chemotherapy (Pemetrexed/Cisplatin or Pemetrexed/Carboplatin) (N=136)			
	All	1	2	3 or Higher	All	1	2	3 or Higher
<b>Eye Disorders</b>								
Dry eye	10 (3.6)	8 (2.9)	2 (0.7)	0 (0.0)	4 (2.9)	4 (2.9)	0 (0.0)	0 (0.0)
Vision blurred	9 (3.2)	8 (2.9)	1 (0.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Keratitis <sup>f,m</sup>	3 (1.1)	1 (0.4)	2 (0.7)	0 (0.0)	1 (0.7)	0 (0.0)	1 (0.7)	0 (0.0)
Conjunctival disorders <sup>l</sup>	22 (7.9)	16 (5.7)	6 (2.1)	0 (0.0)	10 (7.4)	8 (0.7)	2 1.5	0 (0.0)
<b>Gastrointestinal Disorders</b>								
Diarrhea <sup>m</sup>	113 (40.5)	96 (34.4)	14 (5.0)	3 (1.1)	15 (11.0)	10 (7.4)	3 (2.2)	2 (1.5)
Nausea	45 (16.1)	36 (12.9)	7 (2.5)	2 (0.7)	67 (49.3)	41 (30.1)	21 (15.4)	5 (3.7)
Stomatitis <sup>m</sup>	41 (14.7)	34 (12.2)	7 (2.5)	0 (0.0)	21 (15.4)	13 (9.6)	6 (4.4)	2 (1.5)
Constipation	39 (14.0)	35 (12.5)	4 (1.4)	0 (0.0)	47 (34.6)	40 (29.4)	7 (5.1)	0 (0.0)
Vomiting	31 (11.1)	25 (9.0)	5 (1.8)	1 (0.4)	27 (19.9)	15 (11.0)	9 (6.6)	3 (2.2)
<b>General Disorders and Administration Site Conditions</b>								
Fatigue	44 (15.8)	31 (11.1)	10 (3.6)	3 (1.1)	38 (27.9)	23 (16.9)	14 (10.3)	1 (0.7)
Asthenia	20 (7.2)	14 (5.0)	3 (1.1)	3 (1.1)	20 (14.7)	10 (7.4)	4 (2.9)	6 (4.4)
<b>Infections and Infestations</b>								
Nasopharyngitis	28 (10.0)	24 (8.6)	4 (1.4)	0 (0.0)	7 (5.1)	3 (2.2)	4 (2.9)	0 (0.0)
<b>Investigations</b>								
QTc interval prolongation <sup>k,m</sup>		4 (1.4)				0 (0.0)		
<b>Metabolism and Nutrition Disorders</b>								

Preferred term	TAGRISSO 80 mg once daily (N=279)				Chemotherapy (Pemetrexed/Cisplatin or Pemetrexed/Carboplatin) (N=136)			
Decreased appetite	50 (17.9)	41 (14.7)	6 (2.2)	3 (1.1)	49 (36.0)	35 (25.7)	10 (7.4)	4 (2.9)
<b>Musculoskeletal and Connective Tissue Disorders</b>								
Back pain	29 (10.4)	20 (7.2)	8 (2.9)	1 (0.4)	12 (8.8)	10 (7.4)	1 (0.7)	1 (0.7)
<b>Nervous System Disorders</b>								
Headache	28 (10.0)	23 (8.2)	5 (1.8)	0 (0.0)	15 (11.0)	14 (10.3)	1 (0.7)	0 (0.0)
<b>Respiratory, Thoracic and Mediastinal Disorders</b>								
Cough	46 (16.5)	39 (14.0)	7 (2.5)	0 (0.0)	19 (14.0)	13 (9.6)	6 (4.4)	0 (0.0)
Dyspnea	24 (8.6)	15 (5.4)	6 (2.2)	3 (1.1)	18 (13.2)	12 (8.8)	6 (4.4)	0 (0.0)
Epistaxis	15 (5.4)	15 (5.4)	0 (0.0)	0 (0.0)	2 (1.5)	2 (1.5)	0 (0.0)	0 (0.0)
Interstitial lung disease <sup>d,e,m</sup>	10 (3.6)	3 (1.1)	6 (2.2)	1 (0.4)	1 (0.7)	0 (0.0)	0 (0.0)	1 (0.7)
<b>Skin disorders</b>								
Rash <sup>g,m</sup>	94 (33.7)	82 (29.4)	10 (3.6)	2 (0.7)	8 (5.9)	7 (5.1)	1 (0.7)	0 (0.0)
Dry skin <sup>h,m</sup>	65 (23.3)	58 (20.8)	7 (2.5)	0 (0.0)	6 (4.4)	5 (3.7)	1 (0.7)	0 (0.0)
Paronychia <sup>i,m</sup>	61 (21.9)	47 (16.8)	14 (5.0)	0 (0.0)	2 (1.5)	1 (0.7)	1 (0.7)	0 (0.0)
Pruritus <sup>j,m</sup>	36 (12.9)	33 (11.8)	3 (1.1)	0 (0.0)	7 (5.1)	5 (3.7)	2 (1.5)	0 (0.0)

<sup>a</sup> Data is cumulative from AURA3 trial; only events for patients receiving at least one dose of TAGRISSO are summarized. Frequency reported in this table are regardless of causality.

<sup>b</sup> National Cancer Institute Common Terminology Criteria for Adverse Events, version 4.0.

<sup>c</sup> Percentages rounded to 1 decimal place.

<sup>d</sup> Includes cases reported within the clustered terms: Interstitial lung disease and pneumonitis.

<sup>e</sup> 1 CTCAE grade 5 event (fatal) was reported.

<sup>f</sup> Includes cases reported within the clustered terms: keratitis, punctate keratitis, corneal epithelium defect and corneal erosion.

<sup>g</sup> Includes cases reported within the clustered terms for rash AEs: Rash, rash generalized, rash erythematous, rash macular, rash maculo-papular, rash papular, rash pustular, erythema, folliculitis, acne, dermatitis and dermatitis acneiform.

<sup>h</sup> Includes cases reported within the clustered terms: Dry skin, skin fissures, xerosis, eczema.

<sup>i</sup> Includes cases reported within the clustered terms: Nail disorders, nail bed disorders, nail bed inflammation, nail bed tenderness, nail discoloration, nail disorder, nail dystrophy, nail infection, nail ridging, onychoclasia, onycholysis, onychomadesis, paronychia.

<sup>j</sup> Includes cases reported within the clustered terms: Pruritus, Pruritus generalized, Eyelid Pruritus.

<sup>k</sup> Represents the incidence of patients who had a QTcF prolongation >500msec, See ADVERSE REACTIONS, QT Interval Prolongation below.

<sup>l</sup> Includes cases reported within the clustered terms: dry eye, conjunctivitis, keratitis, conjunctival hemorrhage, conjunctival hyperaemia.

<sup>m</sup> Adverse reactions associated with TAGRISSO.

### Abnormal Hematologic and Clinical Chemistry Findings

Decreases from baseline in median values for platelets, neutrophils and leucocytes were observed early in treatment with TAGRISSO. Median values appeared to stabilize after the initial drop [time of steady state (cycle 3 day 1)] with the majority of patients experiencing no change in CTCAE grade, or a single grade change from baseline. Table 4 below summarizes the shift changes in these hematologic parameters in patients treated with TAGRISSO 80 mg in the AURA3 trial.

**Table 4 Hematology, maximum CTCAE grade shift from baseline occurring in patients during treatment in AURA3 (Safety analysis set)**

Parameter	TAGRISSO 80 mg once daily (N=279)					Chemotherapy (Pemetrexed/Cisplatin or Pemetrexed/Carboplatin) (N=131 <sup>a</sup> )				
	All <sup>b</sup>	1	2	3	4	All <sup>b</sup>	1	2	3	4
	CTCAE grade change n(%) of patients					CTCAE grade change n(%) of patients				
<b>Hematology</b>										
Platelet count decreased	127 (45.5)	123 (44.1)	2 (0.7)	1 (0.4)	1 (0.4)	63 (48.1)	43 (32.8)	10 (7.6)	7 (5.3)	3 (2.3)
Leukocytes decreased	170 (60.9)	127 (45.5)	40 (14.3)	3 (1.1)	0	98 (74.8)	58 (44.3)	33 (25.2)	5 (3.8)	2 (1.5)
Neutrophils decreased	75 (26.9)	37 (13.3)	32 (11.5)	5 (1.8)	1 (0.4)	64 (48.9)	19 (14.5)	29 (22.1)	8 (6.1)	8 (6.1)
Lymphopenia	171 (61.3)	87 (31.2)	63 (22.6)	18 (6.5)	3 (1.1)	76 (58.0)	25 (19.1)	39 (29.8)	10 (7.6)	2 (1.5)

<sup>a</sup> Based on the number of patients with available follow-up laboratory data.  
CTCAE = Common Terminology Criteria for Adverse Events (version 4.0).

### FLAURA, AURA1, AURAex, AURA2 and AURA3 Trials

The safety findings in the single-arm Phase I AURA1, Phase II AURAex and AURA2 trials were generally consistent with those observed in the TAGRISSO arm of the Phase III FLAURA and AURA3 trials. No additional or unexpected toxicity has been observed and adverse events have been aligned in type, severity and frequency.

Adverse drug reactions are presented in Table 5 regardless of investigator assessed causality based on adverse event reports in a pooled dataset from the 1142 patients with locally

advanced or metastatic EGFR mutation-positive NSCLC who received TAGRISSO at a dose of 80 mg daily in the FLAURA and AURA trials.

**Table 5 Adverse drug reactions reported in patients treated with TAGRISSO 80 mg in the FLAURA and AURA<sup>a</sup> trials**

Preferred term <sup>a</sup>	TAGRISSO 80 mg once daily N=1142	
	All Grades <sup>b</sup> n(%)	Grade 3 and higher n(%)
<b>Respiratory, thoracic and mediastinal disorders</b>		
Interstitial lung disease <sup>c</sup>	45 (3.9)	17 (1.5) <sup>d</sup>
<b>Gastrointestinal disorders</b>		
Diarrhea	555 (48.6)	14 (1.2)
Stomatitis	229 (20.1)	2 (0.2)
<b>Eye disorders</b>		
Keratitis <sup>e</sup>	8 (0.7)	1 (0.1)
<b>Skin and subcutaneous tissue disorders</b>		
Rash <sup>f</sup>	535 (46.8)	10 (0.9)
Dry skin <sup>g</sup>	372 (32.6)	1 (0.1)
Paronychia <sup>h</sup>	357 (31.3)	3 (0.3)
Pruritus <sup>i</sup>	194 (17.0)	1 (0.1)
<b>Investigations</b>		
QTc interval prolongation <sup>j</sup>		10 (0.9)
<b>Findings based on test results presented as CTCAE grade shifts</b>		
Platelet count decreased <sup>k</sup>	614 (54.1)	18 (1.6)
Neutrophils count decreased <sup>k</sup>	391 (34.7)	46 (4.1)
Lymphocytes decreased <sup>k</sup>	756 (67.1)	81 (7.2)
Leukocytes count decreased <sup>k</sup>	765 (67.8)	17 (1.5)

<sup>a</sup> Data is cumulative from Phase III (FLAURA and AURA3), Phase II (AURAex and AURA2) and Phase I (AURA1) trials; only events for patients receiving at least one dose of TAGRISSO are summarized. Frequency reported in this table are regardless of causality.

<sup>b</sup> National Cancer Institute Common Terminology Criteria for Adverse Events, version 4.0.

<sup>c</sup> Includes cases reported within the clustered terms: Interstitial lung disease and pneumonitis.

<sup>d</sup> 5 CTCAE grade 5 events (fatal) were reported.

<sup>e</sup> Includes cases reported within the clustered terms: Keratitis, punctate keratitis, corneal erosion, corneal epithelium defect, corneal defect.

<sup>f</sup> Includes cases reported within the clustered terms for rash AEs: Rash, rash generalized, rash erythematous, rash macular, rash maculo-papular, rash papular, rash pustular, erythema, folliculitis, acne, dermatitis and dermatitis acneiform.

- <sup>g</sup> Includes cases reported within the clustered terms: Dry skin, skin fissures, xerosis, eczema.
- <sup>h</sup> Includes cases reported within the clustered terms: Nail disorders, nail bed disorders, nail bed inflammation, nail bed tenderness, nail discoloration, nail disorder, nail toxicity, nail dystrophy, nail infection, nail ridging, onychoclasia, onycholysis, onychomadesis, paronychia.
- <sup>i</sup> Includes cases reported within the clustered terms: Pruritus, pruritus generalized, eyelid pruritus.
- <sup>j</sup> Represents the incidence of patients who had a QTcF prolongation >500msec.
- <sup>k</sup> Represents the incidence of laboratory findings, not of reported adverse events.

**Hematological Events:** Early reductions in the median laboratory counts of leukocytes, lymphocytes, neutrophils and platelets have been observed in patients treated with TAGRISSO, which stabilized over time and then remained above the lower limit of normal. Adverse events of leukopenia, lymphopenia, neutropenia and thrombocytopenia have been reported, most of which were mild or moderate in severity and did not lead to dose interruptions.

**QT Interval Prolongation:** Of the 1142 patients in the pooled FLAURA (n=279) and AURA Phase I (n=173), II (n=411) and III (n=279) trials treated with TAGRISSO 80 mg, 10 patients (0.9%) were found to have a QTc greater than 500 msec, 48 patients (4.2%) had a QTc greater than 480 msec, 4 patients (<0.5%) had an increase from baseline QTc greater than 90 msec, and 41 patients (3.6%) had an increase from baseline QTc greater than 60 msec. No ventricular arrhythmias were reported in these trials. Consider periodic monitoring with ECGs and electrolytes in patients with congenital long QTc syndrome, congestive heart failure, electrolyte abnormalities, or those who are taking medications known to prolong the QTc interval (see WARNINGS AND PRECAUTIONS, Cardiovascular, QT Interval Prolongation; DOSAGE AND ADMINISTRATION, Dose Adjustment).

**ECG Findings:** The effects of TAGRISSO 80 mg/day on cardiac electrophysiology were assessed in 210 patients in AURA2, which included serial ECGs at baseline following a single dose and steady-state.

In AURA2, TAGRISSO 80 mg/day was associated with a concentration-dependent prolongation of the QTcF interval ( $QTcF=QT/RR^{1/3}$ ). During steady-state treatment on Day 43, mean changes from baseline in the QTcF interval ranged from 13.0 msec (95% CI: 11.0, 14.9) to 16.2 msec (95% CI: 14.1, 18.3) over the course of the day (see WARNINGS AND PRECAUTIONS, Cardiovascular).

**Heart Rate:** TAGRISSO 80 mg/day was also associated with a concentration-dependent reduction in RR-derived ventricular heart rate. During steady-state treatment on Day 43 in AURA2, mean changes from baseline in RR-derived ventricular heart rate ranged from -2.1 (95% CI: -3.6, -0.5) to -5.9 bpm (95% CI: -7.5, -4.3) over the course of the day. In a pooled analysis of data from AURA2 and AURAx, the mean changes from baseline in pre-dose RR-derived ventricular heart rate were -1.7 bpm (95% CI: -2.8, -0.5), -2.1 bpm (95% CI: -3.2, -0.9), -0.7 (95% CI: -1.8, 0.4) and -0.7 bpm (95% CI: -1.8, 0.5), on days 64, 85, 106 and day 127, respectively. No events of ventricular bradycardia were reported in the Phase II or III trials.

**Left Ventricular Performance:** The effects of TAGRISSO 80 mg daily on ventricular performance were assessed in patients in FLAURA and the AURA trials. Left ventricular ejection fraction (LVEF) was determined at screening and every 12 weeks relative to the first dose until treatment discontinuation. In those trials, LVEF decreases  $\geq 10$  percentage points and a drop to  $< 50\%$  occurred in 3.9% (35/908) of patients treated with TAGRISSO who had baseline and at least one follow-up LVEF assessment. Consider cardiac monitoring, including an assessment of LVEF at baseline and during treatment in patients with cardiac risk factors. Assessment of LVEF in patients who develop relevant cardiac signs or symptoms during treatment should be considered. Discontinuation of treatment with TAGRISSO should be considered in patients who develop congestive heart failure (see WARNINGS AND PRECAUTIONS, Cardiovascular and DOSAGE AND ADMINISTRATION, Dose Adjustment).

### Special populations

**Geriatrics ( $\geq 65$  years of age):** In FLAURA and AURA trials (n=1142), 43% of patients were  $\geq 65$  years of age, of whom 13% were  $\geq 75$  years of age. Compared with younger patients ( $< 65$  years of age), more patients  $\geq 65$  years old had reported adverse reactions that led to study drug dose modifications (interruptions or reductions) (13.4% versus 7.6%). The types of adverse reactions reported were similar regardless of age. Older patients reported more Grade 3 or higher adverse reactions compared to younger patients (13.4% versus 9.3%). No overall differences in efficacy or predicted steady state exposure of osimertinib were observed between these patients and younger patients. See WARNINGS AND PRECAUTIONS, Special Populations; DOSAGE AND ADMINISTRATION, Special Populations; ACTION AND CLINICAL PHARMACOLOGY, Special Populations and Conditions.

### Post-Market Adverse Drug Reactions

The following single isolated cases were reported in other clinical trials with TAGRISSO though causality could not be determined due to confounding factors: potential Hy's Law, bronchiolitis obliterans organizing pneumonia (BOOP), blindness and endophthalmitis/uveitis, and pneumonia (fatal).

Rare, non-fatal post-marketing case reports of Stevens-Johnson syndrome have been reported in association with TAGRISSO. A frequency of 'Rare' has been derived from the single report received from a dataset of 4760 patients in the FLAURA, AURA studies and a post-marketing study.

Uncommon cases of erythema multiforme have been reported in association with TAGRISSO. A frequency of 'uncommon' has been derived from a dataset of 1142 patients in the FLAURA and AURA studies. Post-marketing reports consistent with erythema multiforme minor and major have been received, including reports from a post-marketing surveillance study (n=3578), have also been received.

## DRUG INTERACTIONS

### Overview

*In vitro* studies have demonstrated that the Phase I metabolism of osimertinib is predominantly via CYP3A4 and CYP3A5. Clinical studies demonstrate that strong CYP3A4 inducers can decrease the exposure of osimertinib and that osimertinib may increase the exposure of BCRP and P-gp substrates. The related findings and precautions are discussed further below.

### Drug-Drug Interactions

#### Effect of Other Drugs on TAGRISSO

##### *Strong CYP3A4/5 Inhibitors*

In a clinical pharmacokinetic trial in NSCLC patients, co-administration of 80 mg single dose of osimertinib with a strong CYP3A4 inhibitor itraconazole (200 mg b.i.d for 5 days) decreased the osimertinib maximum plasma concentration ( $C_{max}$ ) by approximately 20% and increased the area under the curve (AUC) by approximately 24%. Given the inter-patient variability of 46% in the osimertinib exposure in the population PK analysis, this change of 24% is not clinically significant. Due to the dose proportional, linear and time independent PK of osimertinib, the effect of a strong CYP3A4 inhibitor at steady state is likely to be similar to that seen after a single dose. Hence, CYP3A4 inhibitors are unlikely to affect the exposure of osimertinib.

##### *Strong CYP3A Inducers*

Strong CYP3A4 inducers can decrease the exposure of osimertinib.

In a clinical pharmacokinetic study in patients, the steady-state AUC and  $C_{max}$  of osimertinib was reduced by -78% and by -73% respectively, when co-administered with rifampicin (600 mg daily for 21 days). It is recommended that concomitant use of strong CYP3A inducers (e.g. Phenytoin, rifampicin, carbamazepine, St. John's Wort) with TAGRISSO should be avoided. If not possible, then increase TAGRISSO dose to 160 mg during the treatment with strong CYP3A inducer and continue dosing at 160 mg for 3 weeks following discontinuation of the strong CYP3A inducer. Resume TAGRISSO dosage at 80 mg 3 weeks after discontinuation of the strong CYP3A inducer. Based on physiologically-based pharmacokinetic (PBPK) model simulations, no dose adjustments are required when TAGRISSO is used with moderate and/or weak CYP3A inducers.

#### Interactions with Drug Transport Systems

*In vitro* studies have shown that osimertinib is not a substrate of OATP1B1 and OATP1B3. *In vitro*, osimertinib does not inhibit P-gp, OAT1, OAT3, OATP1B1, OATP1B3, MATE1, MATE2K and OCT2 at clinically relevant concentrations.

### *Effects of osimertinib on P-gp and BCRP*

*In vitro* studies show that osimertinib is a substrate of P-gp and BCRP transporter but an interaction with co-administered P-gp or BCRP inhibitors or inducers seems unlikely (see WARNINGS AND PRECAUTIONS, Drug Interactions and DRUG INTERACTIONS, Drug-Drug Interactions).

### **Effect of TAGRISSO on Other Drugs**

#### *BCRP substrates*

Based on *in vitro* studies, osimertinib is a competitive inhibitor of BCRP transporter.

In a clinical PK study, co-administration of TAGRISSO with rosuvastatin (sensitive BCRP substrate) increased the AUC and  $C_{\max}$  of rosuvastatin by 35% and 72%, respectively. Patients taking concomitant medications with disposition dependent upon BCRP and with narrow therapeutic index should be closely monitored for signs of changed tolerability as a result of increased exposure of the concomitant medication whilst receiving TAGRISSO (see WARNINGS AND PRECAUTIONS, Drug Interactions).

#### *PXR/P-gp substrates*

In a clinical PK study, co-administration of TAGRISSO with fexofenadine (PXR/P-gp substrate) increased the AUC and  $C_{\max}$  of fexofenadine by 56% and 76% after a single dose and 27% and 25% at steady state, respectively. Patients taking concomitant medications with disposition dependent upon P-gp and with narrow therapeutic index (e.g. digoxin, dabigatran, aliskiren) should be closely monitored for signs of changed tolerability as a result of increased exposure of the concomitant medication whilst receiving TAGRISSO (see WARNINGS AND PRECAUTIONS, Drug Interactions).

#### *CYP3A4/5 substrates*

Based on *in vitro* studies, osimertinib is a competitive inhibitor of CYP3A4/5 and may induce CYP3A enzymes. In a clinical PK study, co-administration of TAGRISSO with simvastatin (sensitive CYP3A4 substrate) decreased the AUC and  $C_{\max}$  of simvastatin by -9% and by -23% respectively. These changes are small and not likely to be of clinical significance. Clinical PK interactions with CYP3A4 substrates are unlikely.

### **Gastric Acid Reducing Agents**

In a clinical pharmacokinetic trial, co-administration of omeprazole did not result in clinically relevant changes in osimertinib exposures (see ACTION AND CLINICAL PHARMACOLOGY). Gastric pH modifying agents (e.g., proton pump inhibitors, H2

antagonists and antacids) can be concomitantly used with TAGRISSO without any restrictions.

### **QT Interval Prolonging Drugs**

The concomitant use of TAGRISSO with QTc interval-prolonging drugs should be avoided to the extent possible (See WARNINGS AND PRECAUTIONS, Cardiovascular & Monitoring and Laboratory Tests; ADVERSE REACTIONS, QT Interval Prolongation and ECG Findings). Drugs that have been associated with QT interval prolongation and/or torsade de pointes include, but are not limited to, the examples in the following list.

Chemical/pharmacological classes are listed if some, although not necessarily all, class members have been implicated in QTc interval prolongation and/or torsade de pointes:

- Class IA antiarrhythmics (e.g., quinidine, procainamide, disopyramide)
- Class III antiarrhythmics (e.g., amiodarone, sotalol, ibutilide, dronedarone)
- Class IC antiarrhythmics (e.g., flecainide, propafenone)
- antipsychotics (e.g., chlorpromazine, pimozide, haloperidol, droperidol, ziprasidone, risperidone)
- antidepressants (e.g., fluoxetine, citalopram, venlafaxine, tricyclic/tetracyclic antidepressants [e.g., amitriptyline, imipramine, maprotiline])
- opioids (e.g., methadone)
- macrolide antibiotics and analogues (e.g., erythromycin, clarithromycin, azithromycin, tacrolimus)
- quinolone antibiotics (e.g., moxifloxacin, levofloxacin, ciprofloxacin)
- pentamidine
- antimalarials (e.g., quinine, chloroquine)
- azole antifungals (e.g., ketoconazole, fluconazole, voriconazole)
- domperidone
- 5-hydroxytryptamine (5-HT)<sub>3</sub> receptor antagonists (e.g., ondansetron)
- tyrosine kinase inhibitors (e.g., sunitinib, nilotinib, ceritinib, vandetanib)
- arsenic trioxide
- histone deacetylase inhibitors (e.g., vorinostat)
- beta-2 adrenoceptor agonists (e.g., salmeterol, formoterol).

### **Drugs that Affect Electrolytes**

The use of TAGRISSO with drugs that can disrupt electrolyte levels should be avoided to the extent possible. Drugs that can disrupt electrolyte levels include, but are not limited to, the following:

- loop, thiazide, and related diuretics
- laxatives and enemas
- amphotericin B
- high-dose corticosteroids.

The above list of potentially interacting drugs is not comprehensive. Current information sources should be consulted for newly approved drugs that decrease heart rate, prolong the QT/QTc interval, or decrease electrolytes, as well as for older drugs for which these effects have recently been established.

### **Drug-Food Interactions**

Based on a clinical pharmacokinetic trial in patients at 80 mg, food (high-calorie, high-fat meal) does not alter osimertinib bioavailability to a clinically meaningful extent (AUC increase 6% (90% CI: -5, 19) and  $C_{max}$  decrease -7% (90% CI: -19, 6)). Hence, it is recommended that TAGRISSO be taken with or without food.

### **Drug-Herb Interactions**

Avoid co-administering St. John's Wort and other herbs which are strong inducers of CYP3A4 with TAGRISSO (see DRUG INTERACTIONS, Drug-Drug Interactions).

### **Drug-Laboratory Interactions**

Interactions with laboratory tests have not been established.

## **DOSAGE AND ADMINISTRATION**

### **Recommended Dose and Dosage Adjustment**

The recommended dose of TAGRISSO (osimertinib) is 80 mg tablet taken orally once a day until disease progression or unacceptable toxicity.

TAGRISSO can be taken with or without food at the same time each day.

The tablet should be swallowed whole with water. The tablet should not be crushed, split or chewed.

If the patient is unable to swallow the tablet, it may first be dispersed in 50 mL of non-carbonated water (room temperature). The tablet should be dropped in the water, without crushing, stirred until dispersed and immediately swallowed. An additional 50 mL of water should be added to ensure that no residue remains in the glass and then immediately swallowed. No other liquids should be added.

If administration via nasogastric tube is required, the same process as above should be followed but using volumes of 15 mL for the initial dispersion and 15 mL for the residue rinses. The resulting total volume of 30 mL of liquid should be immediately administered as per the nasogastric tube manufacturer's instructions with appropriate water flushes (see ACTION AND CLINICAL PHARMACOLOGY). The dispersion and residues should be administered within 30 minutes of the addition of the tablets to water.

## Dose Adjustment

Dose adjustments are not necessary for generally manageable adverse reactions. If dose reduction or modification is necessary based on individual safety and tolerability, then the dose of TAGRISSO should be reduced to 40 mg taken once daily. Dose reduction guidelines for adverse reactions toxicities are provided in Table 6.

**Table 6 Recommended dose modifications for TAGRISSO**

Target Organ	Adverse Reaction <sup>a</sup>	Dose Modification
Pulmonary	ILD/Pneumonitis	Permanently discontinue TAGRISSO if ILD is confirmed.  See WARNINGS AND PRECAUTIONS, Interstitial Lung Disease (ILD) for further guidance and management.
	QTc interval greater than 500 msec on at least 2 separate ECGs	Withhold TAGRISSO until QTc interval is less than 481 msec or recovery to baseline if baseline QTc is greater than or equal to 481 msec, then restart at a reduced dose (40 mg).
Cardiac	QTc interval prolongation with signs/symptoms of serious arrhythmia	Permanently discontinue TAGRISSO.
	Asymptomatic, absolute decrease in LVEF of 10% from baseline and below 50%	Withhold TAGRISSO for up to 4 weeks. If improved to baseline LVEF, resume. If not improved to baseline, permanently discontinue.
	Symptomatic congestive heart failure	Permanently discontinue TAGRISSO.
	Grade 3 or higher adverse reaction	Withhold TAGRISSO for up to 3 weeks.
Other	If Grade 3 or higher adverse reaction improves to Grade 0-2 after withholding of TAGRISSO for up to 3 weeks	TAGRISSO may be restarted at the same dose (80 mg) or a lower dose (40 mg).
	Grade 3 or higher adverse reaction that does not improve to Grade 0-2 after withholding for up to 3 weeks	Permanently discontinue TAGRISSO.

<sup>a</sup> Note: The intensity of clinical adverse events graded by the National Cancer Institute (NCI) Common Terminology Criteria for Adverse Events (CTCAE) version 4.0.

## Dosing Considerations

**Pediatrics (<18 years age):** The safety and efficacy of TAGRISSO in children below 18 years of age have not been established. There are currently no available data.

**Geriatrics (≥65 years age):** Population pharmacokinetic (PK) analysis indicated that age did not have an impact on the exposure of osimertinib and hence, no dosage adjustment is required in this patient population (see ACTION AND CLINICAL PHARMACOLOGY, Special Populations and Conditions).

**Age, body weight, gender, race and smoking status:** No dosage adjustment is required due to patient age, body weight, gender, ethnicity and smoking status (see ACTION AND CLINICAL PHARMACOLOGY, Special Populations and Conditions).

**Hepatic Impairment:** Based on clinical studies, no dose adjustments are necessary in patients with mild hepatic impairment (Child Pugh A) or moderate hepatic impairment (Child Pugh B). Similarly, based on population PK analysis, no dose adjustment is recommended in patients with mild hepatic impairment (total bilirubin ≤ULN and AST >ULN or total bilirubin between 1.0 to 1.5x ULN and any AST) or moderate hepatic impairment (total bilirubin between 1.5 to 3 times ULN and any AST). The appropriate dose of TAGRISSO has not been established in patients with severe hepatic impairment (see ACTION AND CLINICAL PHARMACOLOGY, Special Populations and Conditions).

**Renal Impairment:** No clinical trial has been conducted to specifically evaluate the effect of renal impairment on the PK of osimertinib. No dose adjustment is recommended in patients with mild, moderate or severe renal impairment. The safety and efficacy of TAGRISSO has not been established in patients with end-stage renal disease [Creatinine clearance (CLcr) less than 15 mL/min, calculated by the Cockcroft and Gault equation], or on dialysis. An appropriate dose of TAGRISSO has not been established in patients with end-stage renal impairment (see ACTION AND CLINICAL PHARMACOLOGY, Special Populations and Conditions).

### **Missed Dose**

If a dose of TAGRISSO is missed, make up the dose unless the next dose is due within 12 hours.

### **OVERDOSAGE**

In TAGRISSO clinical trials a limited number of patients were treated with daily doses of up to 240 mg without dose limiting toxicities. In these trials, patients who were treated with TAGRISSO daily doses of 160 mg and 240 mg experienced an increase in the frequency and severity of a number of typical EGFR-inhibitor induced AEs (primarily diarrhea and skin rash) compared to the 80 mg dose.

There is no specific treatment in the event of TAGRISSO overdose. Physicians should treat symptomatically and follow general supportive measures, including ECG monitoring.

For management of a suspected drug overdose, contact your regional Poison Control Centre.

## ACTION AND CLINICAL PHARMACOLOGY

### Mechanism of Action

TAGRISSO (osimertinib), a Tyrosine Kinase Inhibitor (TKI), is an oral, potent, and selective irreversible inhibitor of both Epidermal Growth Factor Receptor (EGFR) sensitizing-mutations (EGFRm) and T790M resistance mutation (T790M) that has limited activity against wild-type EGFR.

### Pharmacokinetics

The pharmacokinetics of TAGRISSO have been studied in healthy volunteers after single dose and in NSCLC patients after both single and multiple doses. The summary of steady state PK parameters of TAGRISSO is shown in Table 7.

**Table 7 Summary of Steady State Pharmacokinetic Parameters at 80 mg Osimertinib Dose in NSCLC Patients Across AURA Trials**

C <sub>ss,max</sub> (nM)	t <sub>1/2</sub> (h)	AUC <sub>ss</sub> (nM*h)	Clearance (L/h)	Volume of distribution (L)
509	44	11040	14.3	918

The values are based on a population PK simulation of 100000 patients age (range: 25 to 91 years), gender (males 35%), ethnicity [including White (27.5%), Asian non-Japanese or non-Chinese (23.6%), Japanese (18.7%), Chinese (20.3%), other (9.95%)] and smoking status (current smokers (2.5%), former smokers (30.7%)) were calculated for an 80-mg AZD9291 simulated dose from the final PPK model (with inter-individual variability) along with patient demographics taken from AURA Phase I, AURA extension, AURA2, AURA3 and FLAURA.

**Dose Proportionality:** The AUC and C<sub>max</sub> increased dose proportionally over 20 to 240 mg dose range.

Based on an analysis of dose-exposure response relationships over the dose range of 20 mg (0.25 times the recommended dose) to 240 mg (3 times the recommended dose), no significant efficacy (objective response rate (ORR), Duration of Response (DoR) and Progression-Free Survival (PFS)) relationship for osimertinib was identified. Over the same dose range, increased exposure led to increased probability of adverse reactions, specifically rash, diarrhoea and ILD.

**Dose accumulation:** Administration of TAGRISSO once daily results in approximately 3 fold accumulation with steady-state exposures achieved by 15 days of dosing.

At steady-state, circulating plasma concentrations are typically maintained within a 1.6 fold range over the 24-hour dosing interval.

**Absorption:** Following oral administration of TAGRISSO, peak plasma concentrations of osimertinib were achieved with a median (min-max) t<sub>max</sub> of 6 (3-24) hours, with several peaks observed over the first 24 hours in some patients. The absolute bioavailability of TAGRISSO is 70% (90% CI: 67, 73).

In healthy volunteers administered an 80 mg tablet where gastric pH was elevated by dosing of omeprazole for 5 days, osimertinib exposure was not affected (AUC and  $C_{max}$  increase by 7% and 2%, respectively) with the 90% CI for exposure ratio contained within the 80-125% limit.

**Distribution:** Population estimated mean volume of distribution at steady-state ( $V_{ss}/F$ ) of osimertinib is 918 L indicating extensive distribution into tissue. *In vitro*, plasma protein binding of osimertinib is 94.7% (5.3% free). Osimertinib has also been demonstrated to bind covalently to rat and human plasma proteins, human serum albumin and rat and human hepatocytes.

**Metabolism:** *In vitro* studies indicate that Phase I metabolism of osimertinib is predominantly via CYP3A4, and CYP3A5. Two pharmacologically active metabolites (AZ7550 and AZ5104) have been identified in the plasma of animal species and in human plasma after oral dosing with osimertinib; AZ7550 showed a similar pharmacological profile to osimertinib while AZ5104 showed greater potency across both mutant and wild-type EGFR. The systemic exposure of each metabolite (AZ7550 and AZ5104) was approximately 10% of the osimertinib exposure at steady-state. Both metabolites appeared slowly in plasma after administration of TAGRISSO to patients, with a median (min-max)  $t_{max}$  of 24 (4-72) and 24 (6-72) hours, respectively. In human plasma, parent osimertinib accounted for 0.8%, with the 2 metabolites contributing 0.08% and 0.07% of the total radioactivity with the majority of the radioactivity being covalently bound to plasma proteins. The geometric mean exposure of both AZ5104 and AZ7550, based on AUC, was approximately 10% each of the exposure of osimertinib at steady-state.

The main metabolic pathway of osimertinib was oxidation and dealkylation. Other metabolites detected in human hepatocytes included glutathione and cysteinylglycine adduct. At least 12 components were observed in the pooled urine and faecal samples in humans with 5 components accounting for >1% of the dose of which unchanged osimertinib, AZ5104 and AZ7550, accounted for approximately 1.9, 6.6 and 2.7% of the dose while a cysteinyl adduct (M21), and an unknown metabolite (M25) accounted for 1.5% and 1.9% of the dose, respectively.

Based on *in vitro* studies, osimertinib is a competitive inhibitor of CYP 3A4/5 but not 1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6 and 2E1 at clinically relevant concentrations. Based on *in vitro* studies, osimertinib is not an inhibitor of UGT1A1 and UGT2B7 at clinically relevant concentrations hepatically. Intestinal inhibition of UGT1A1 is possible but the clinical impact is unknown.

**Excretion:** Osimertinib is primarily eliminated via the feces (68%) and to a lesser extent in the urine (14%). Unchanged osimertinib accounted for approximately 2% of the elimination with 0.8% in urine and 1.2% in feces.

### ***Special Populations and Conditions:***

**Pediatrics (<18 years age):** The safety and efficacy of TAGRISSO in children below 18 years of age have not been established.

**Geriatrics (>65 years age):** Population PK analysis indicated that age did not have an impact on the exposure of osimertinib and hence, TAGRISSO can be used in adults without regard to age.

**Effects of age, gender, race and smoking status:** In a population based PK analysis (n=1367), no clinically significant relationships were identified between predicted steady-state exposure ( $AUC_{ss}$ ) and patient's age (range: 25 to 91 years), gender (65% female), ethnicity (including White, Asian, Japanese, Chinese and non-Asian-non-White patients) and smoking status (34 (2.5%) current smokers, n=419 (30.7%) former smokers).

**Body weight:** Population PK analysis indicated that body weight was a significant covariate with a less than 20% change in osimertinib  $AUC_{ss}$  expected across a body weight range of 88 kg to 43 kg, respectively (95% to 5% quantiles) when compared to the  $AUC_{ss}$  for the median body weight of 62 kg. Taking the extremes of body weight into consideration, from <43 kg to >88 kg, AZ5104 metabolite ratios ranged from 11.8% to 9.6% while for AZ7550 it ranged from 12.8% to 8.1%, respectively. These exposure changes due to body weight differences are not considered clinically relevant.

**Serum albumin:** Based on population PK analysis, serum albumin was identified as a significant covariate with a less than 30% change in osimertinib  $AUC_{ss}$  expected across the albumin range of 29 to 46 g/L respectively (95% to 5% quantiles) when compared to the  $AUC_{ss}$  for the median baseline albumin of 39 g/L. These exposure changes due to baseline albumin are not considered clinically relevant.

**Hepatic Impairment:** Osimertinib is metabolized in the liver. In a clinical trial, patients with mild hepatic impairment (Child Pugh A, n=7) or moderate hepatic impairment (Child Pugh B, n=5) had no increase in exposure compared to patients with normal hepatic function (n=10) after a single 80 mg dose of TAGRISSO. The AUC and  $C_{max}$  for osimertinib were reduced to 63.3% and 51.4% respectively in patients in mild hepatic impairment and to 68.4% and 60.7% respectively in patients with moderate hepatic impairment when compared to patients with normal liver function. For the metabolite AZ5104, the AUC and  $C_{max}$  were 66.5% and 66.3% respectively in patients with mild hepatic impairment, and 50.9% and 44.0% respectively in patients with moderate hepatic impairment when compared to the exposure in patients with normal liver function (see DOSAGE AND ADMINISTRATION, Dosing Considerations). Based on population PK analysis, there was no relationship between markers of hepatic function (ALT, AST, bilirubin) and osimertinib exposure. The hepatic impairment marker serum albumin showed an effect on the PK of osimertinib. Clinical trials excluded patients with AST or ALT >2.5 x upper limit of normal (ULN), or if due to underlying malignancy, >5.0 x ULN or with total bilirubin >1.5 x ULN. Data from 134 patients with mild hepatic impairment (total bilirubin  $\leq$  ULN and AST > ULN or total bilirubin between 1.0 to 1.5 x ULN and any AST), 8 patients with moderate hepatic impairment (total bilirubin between 1.5

x to 3.0 x ULN and any AST) and 1216 patients with normal hepatic function (total bilirubin  $\leq$  ULN and AST  $\leq$  ULN), showed similar osimertinib exposures. There are no data available on patients with severe hepatic impairment.

**Renal Impairment:** No specific trials have been conducted in subjects with renal impairment. Urinary excretion of metabolites is <2% of the dose. Based on a population PK analysis of 593 patients with mild renal impairment (CL<sub>cr</sub> 60 to less than 90 mL/min), 254 patients with moderate renal impairment (CL<sub>cr</sub> 30 to less than 60 mL/min), 5 patients with severe renal impairment (CL<sub>cr</sub> 15 to less than 30 mL/min) and 502 patients with normal renal function (greater than or equal to 90 mL/min), osimertinib exposures were similar. Severe renal impairment may influence the elimination of hepatically eliminated drugs. Patients with CL<sub>cr</sub> less than 15 mL/min were not included in the clinical trials. There are no data in patients with end stage renal disease (see WARNINGS AND PRECAUTIONS, Special Populations).

## **STORAGE AND STABILITY**

Store at controlled room temperature (15-30°C).

Keep in a safe place out of the reach of children.

## **DOSAGE FORMS, COMPOSITION AND PACKAGING**

### **Dosage Forms**

TAGRISSE 40 mg tablets are beige, round and biconvex tablets marked with “AZ” and “40” on one side and plain on the other side.

TAGRISSE 80 mg tablets are beige, oval and biconvex tablets marked with “AZ” and “80” on one side and plain on the other side.

### **Composition**

TAGRISSE 40 mg and 80 mg tablets contain the following non-medicinal ingredients:

Tablet core: mannitol, microcrystalline cellulose, low-substituted hydroxypropyl cellulose, sodium stearyl fumarate

Tablet coat: polyvinyl alcohol, titanium dioxide, macrogol 3350, talc, yellow iron oxide, red iron oxide, black iron oxide

### **Packaging**

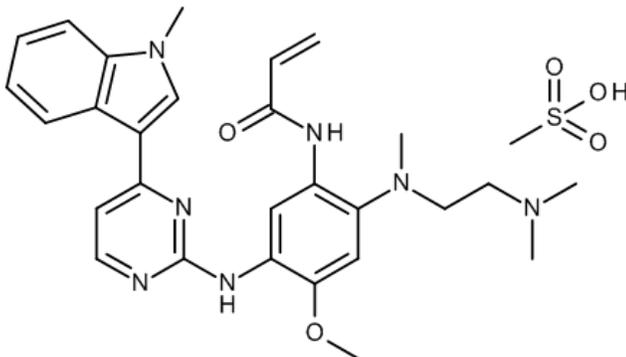
Both strengths of TAGRISSE are available in aluminum foil/foil blister in cartons of 30 tablets (3 packs of 10 tablets).

## PART II: SCIENTIFIC INFORMATION

### PHARMACEUTICAL INFORMATION

#### Drug Substance

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<b>Common Name:</b>	osimertinib mesylate
<b>Chemical Name:</b>	<i>N</i> -(2-([2-(Dimethylamino)ethyl](methyl)amino)-4-methoxy-5-([4-(1-methyl-1 <i>H</i> -indol-3-yl)pyrimidin-2-yl]amino)phenyl)prop-2-enamide methansulfonate (IUPAC)
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>33</sub> N <sub>7</sub> O <sub>2</sub> •CH <sub>4</sub> O <sub>3</sub> S
<b>Molecular Mass:</b>	595.71 (as mesylate); 499.61 (as free base)
<b>Structural Formula:</b>	

#### Physiochemical Properties:

A white to brown powder with a melting point, defined as the onset temperature (differential scanning calorimetry) of approximately 248°C.

It has a high aqueous solubility across the physiological pH range of 1.2 to 7.0.

It is an anhydrous and non-hygroscopic substance with a distribution coefficient (logD) of 3.4 (at pH 7.4) and pKa of 4.4 (aniline) and 9.5 (aliphatic amine).

## CLINICAL TRIALS

### **EGFR Mutation-Positive Non-Small Cell Lung Cancer - FLAURA Trial**

The efficacy and safety of TAGRISSO (osimertinib) for the treatment of patients with EGFR mutation positive locally advanced or metastatic NSCLC, who had not received previous systemic treatment for advanced disease, was demonstrated in a Phase III, randomized, double-blind, active-controlled trial (FLAURA). Patient tumour tissue samples were required to have one of the two common EGFR mutations known to be associated with EGFR TKI sensitivity (Ex19del or L858R), as identified by local or central testing.

Patients were randomized 1:1 to receive either TAGRISSO (n=279, 80 mg orally once daily) or EGFR TKI comparator (n=277; gefitinib 250 mg orally once daily or erlotinib 150 mg orally once daily). Randomization was stratified by EGFR mutation type (Exon 19 deletion or L858R) and ethnicity (Asian or non-Asian). Patients received study therapy until intolerance to therapy, or the investigator determined that the patient was no longer experiencing clinical benefit. For patients receiving EGFR TKI comparator, post-progression crossover to open-label TAGRISSO was permitted provided tumour samples tested positive for the T790M mutation.

The primary efficacy endpoint was progression-free survival (PFS) as assessed by investigator. Additional efficacy endpoints included objective response rate (ORR), duration of response (DoR), overall survival (OS), second PFS after start of first subsequent therapy (PFS2), time to first subsequent therapy or death (TFST) and time from randomization to second progression on subsequent treatment or death (TSST) as assessed by investigator. CNS PFS, CNS ORR and CNS DoR as assessed by BICR, and patient reported outcomes (PRO) were also assessed.

#### ***Trial Demographics***

The baseline demographic and disease characteristics of the overall study population were (see Table 8): median age 64 years (range 26-93 years),  $\geq 75$  years old (14%), female (63%), White (36%), Asian (62%), never smokers (64%). All patients had a World Health Organization (WHO) performance status of 0 or 1. Thirty-six percent (36%) of patients had metastatic bone disease and 35% of patients had extra-thoracic visceral metastases. Twenty one percent (21%) of patients had CNS metastases (identified by CNS lesion site at baseline, medical history, and/or prior surgery, and/or prior radiotherapy to CNS metastases).

**Table 8 Demographics and key baseline disease characteristics in FLAURA trial with TAGRISSO 80 mg (full analysis set)**

	Osimertinib (N=279)	EGFR TKI comparator (gefitinib or erlotinib) (N=277)
Demographics		
Age (years)		
Mean (standard deviation)	62.7 (10.70)	63.3 (10.90)
Median (minimum-maximum)	64.0 (26-85)	64.0 (35-93)

**Table 8 Demographics and key baseline disease characteristics in FLAURA trial with TAGRISSO 80 mg (full analysis set)**

	Osimertinib (N=279)	EGFR TKI comparator (gefitinib or erlotinib) (N=277)
Age group (years), n (%)		
<50	32 (11.5)	37 (13.4)
≥50-<65	121 (43.4)	108 (39.0)
≥65-<75	90 (32.3)	89 (32.1)
≥75	36 (12.9)	43 (15.5)
Sex, n (%)		
Male	101 (36.2)	105 (37.9)
Female	178 (63.8)	172 (62.1)
Race, n (%)		
Asian	174 (62.4)	173 (62.5)
Black or African American	2 (0.7)	2 (0.7)
White	101 (36.2)	100 (36.1)
American-Indian or Alaska Native	1 (0.4)	1 (0.4)
Missing	1 (0.4)	1 (0.4)
Smoking history, n (%)		
Never smokers	182 (65.2)	175 (63.2)
Current smokers	8 (2.9)	9 (3.2)
Former smokers	89 (31.9)	93 (33.6)
<b>Key baseline disease characteristics</b>		
WHO performance status		
0 (normal activity)	112 (40.1)	116 (41.9)
1 (restricted activity)	167 (59.9)	160 (57.8)
Missing	0	1 (0.4)
Overall disease classification		
Metastatic <sup>a</sup>	264 (94.6)	262 (94.6)
Locally-advanced <sup>b</sup>	14 (5.0)	15 (5.4)
Missing	1 (0.4)	0
CNS metastases <sup>c</sup>	53 (19.0)	63 (22.7)
Extra-thoracic visceral metastases	94 (33.7)	103 (37.2)
Liver metastases	41 (14.7)	37 (13.4)
Bone & locomotor metastases	97 (34.8)	102 (36.8)
EGFR mutations as used for randomization <sup>d</sup>		
Exon 19 deletion	175 (62.7)	174 (62.8)
Exon 21 L858R	104 (37.3)	103 (37.2)

<sup>a</sup> Metastatic disease - Patient had any metastatic site of disease.

<sup>b</sup> Locally advanced - Patient had only locally advanced sites of disease.

<sup>c</sup> This is a programmatically derived composite endpoint with a list of contributing data sources.

<sup>d</sup> EGFR mutations based on the test (local or central) used to determine randomisation strata (Ex19del or L858R).

### ***Trial Results***

TAGRISSO demonstrated a clinically meaningful and statistically significant improvement in PFS compared to EGFR TKI comparator (median 18.9 months and 10.2 months, respectively, HR=0.46, 95% CI: 0.37, 0.57; P<0.0001). Efficacy results from FLAURA by investigator

assessment are summarized in Table 9, and the Kaplan-Meier curve for PFS is shown in Figure 1. At the time of the interim analysis of overall survival (25% maturity), a HR of 0.63 favoured TAGRISSO (95% CI: 0.45, 0.88; P=0.0068), which did not reach formal statistical significance. A greater proportion of patients treated with TAGRISSO were alive at 12 months and 18 months (89% and 83%, respectively) compared to patients treated with EGFR TKI comparator (83% and 71%, respectively).

**Table 9 Efficacy results from FLAURA by investigator assessment (Full analysis set)**

<b>Efficacy Parameter</b>	<b>TAGRISSO (n=279)</b>	<b>EGFR TKI comparator (gefitinib or erlotinib) (n=277)</b>
<b>Progression-Free Survival</b>		
Number of Events (62% maturity)	136 (49)	206 (74)
Median, Months (95% CI)	18.9 (15.2, 21.4)	10.2 (9.6, 11.1)
HR (95% CI); P-value	0.46 (0.37, 0.57); P-value <0.0001	
<b>Objective Response Rate<sup>a</sup></b>		
Number of responses	223	210
Response Rate (95% CI)	80 (75, 85)	76 (70, 81)
Complete Response, n(%)	7 (2.5)	4 (1.4)
Partial Response, n(%) <sup>b</sup>	216 (77.4)	206 (74.4)
Odds ratio (95% CI); P-value	1.3 (0.9, 1.9); P-value = 0.2421	
<b>Duration of Response (DoR)<sup>a</sup></b>		
Median, Months (95% CI)	17.2 (13.8, 22.0)	8.5 (7.3, 9.8)

HR=Hazard Ratio; CI=Confidence Interval, NC=Not Calculable, NS=Not Statistically Significant

All efficacy results based on RECIST investigator assessment

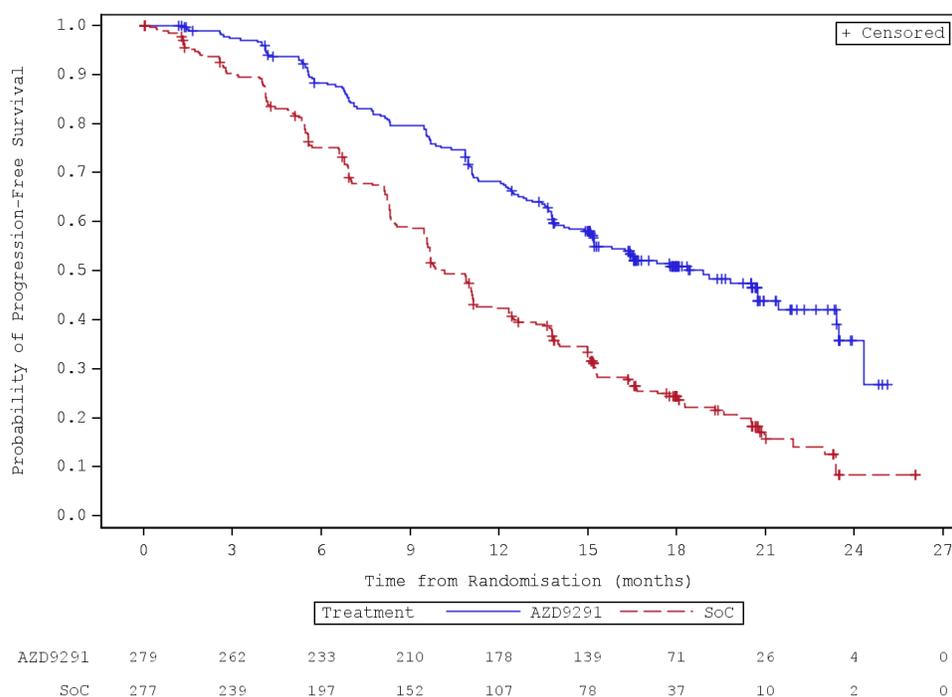
Based on unconfirmed response

Median follow-up time was 15.0 months for patients receiving TAGRISSO and 9.7 months for patients receiving EGFR TKI comparator

A HR < 1 favours TAGRISSO, an Odds ratio of >1 favours TAGRISSO

<sup>a</sup> ORR results by Blinded Independent Central Review (BICR) were consistent with those reported via investigator assessment; ORR by BICR assessment was 78% (95% CI: 73, 83) on TAGRISSO and 70% (95% CI: 65, 76) on EGFR TKI comparator.

**Figure 1** Kaplan-Meier Curves of Progression-Free Survival as assessed by investigator in FLAURA



The PFS benefit of TAGRISSO compared to EGFR TKI comparator was consistent across all predefined subgroups analysed, including ethnicity, age, gender, smoking history, CNS metastases status at study entry and EGFR mutation type (Exon 19 deletion or L858R).

Patients randomized to TAGRISSO as first-line treatment also had clinically meaningful improvements in second PFS after start of first subsequent therapy (PFS2), time from randomization to first subsequent treatment of death (TFST) and time from randomization to second subsequent treatment or death (TSST) compared to patients randomized to EGFR TKI comparator. A continued clinical benefit beyond initial progression for patients treated with TAGRISSO was demonstrated by a clinically meaningful delay to PFS2 (HR: 0.58 [95% CI: 0.44, 0.78]; p=0.0004), TFST (HR: 0.51 [95% CI: 0.40, 0.64]; p < 0.0001) and TSST (HR: 0.60 [95% CI: 0.45, 0.80]; p=0.0005) for patients on TAGRISSO compared to patients on EGFR TKI comparator. The analysis of these post-progression endpoints demonstrated that PFS benefit was largely preserved through subsequent lines of therapy.

In patients with locally advanced EGFRm NSCLC not amenable to curative surgery or radiotherapy, the objective response rate was 93% (95% CI: 66, 100) for patients receiving TAGRISSO (n=14) and 60% (95% CI: 32, 84) for patients receiving EGFR TKI comparator (n=15).

## CNS metastases efficacy in the FLAURA trial

Patients with CNS metastases not requiring steroids and with stable neurologic status for at least two weeks after completion of the definitive therapy and steroids were eligible to be randomized in the FLAURA study. Of 556 patients, 200 patients had available baseline brain scans. A BICR assessment of these scans resulted in a subgroup of 128/556 (23%) patients with CNS metastases and these data are summarized in Table 10. EGFR mutation type (Ex19del or L858R) and ethnicity (Asian or non-Asian) was generally balanced within this analysis between the treatment arms. CNS efficacy by RECIST v1.1 in FLAURA demonstrated a nominal statistically significant improvement in CNS PFS (HR=0.48, 95% CI: 0.26, 0.86; P=0.014).

**Table 10 CNS efficacy by BICR in patients with CNS metastases on a baseline brain scan in FLAURA**

Efficacy Parameter	TAGRISSO (n=61)	EGFR TKI comparator (gefitinib or erlotinib) (n=67)
<b>CNS Progression-Free Survival<sup>a</sup></b>		
Number of Events (%)	18 (30)	30 (45)
Median, Months (95% CI)	NC (16.5, NC)	13.9 (8.3, NC)
HR (95% CI); P-value	0.48 (0.26, 0.86); P=0.014 <sup>b</sup>	
CNS progression free and alive at 6 months (%) (95% CI)	87 (74, 94)	71 (57, 81)
CNS progression free and alive at 12 months (%) (95% CI)	77 (62, 86)	56 (42, 68)
<b>CNS Objective Response Rate<sup>a</sup></b>		
CNS Response Rate % (n) (95% CI)	66 (40) (52, 77)	43 (29) (31, 56)
Odds ratio (95% CI); P-value	2.5 (1.2, 5.2); P-value=0.011	
<b>CNS Duration of Response<sup>a</sup></b>		
Median, Months (95% CI)	NC (12, NC)	14 (7, 19)
Patients remaining in response at 6 months (%) (95% CI)	86 (70, 94)	76 (55, 89)
Patients remaining in response at 12 months (%) (95% CI)	65 (46, 79)	67 (43, 82)

HR=Hazard Ratio; CI=Confidence Interval, NC=Not Calculable

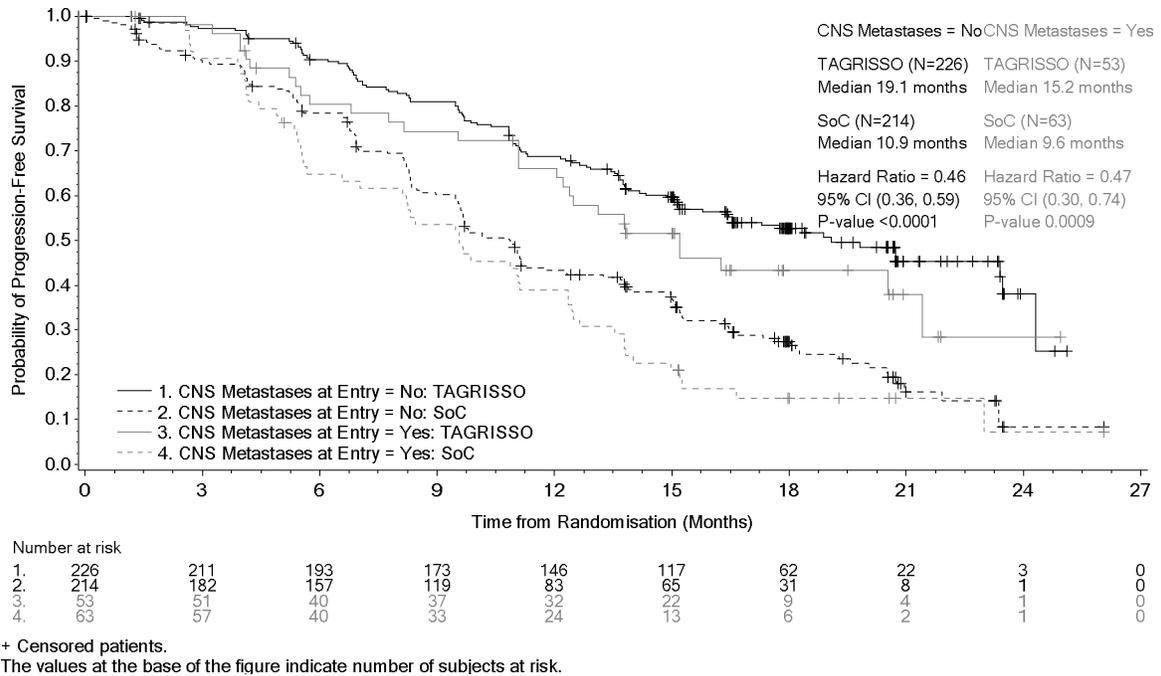
A HR < 1 favours TAGRISSO, an Odds ratio of >1 favours TAGRISSO

a CNS PFS, ORR and DoR determined by RECIST v1.1 by CNS BICR (CNS measurable and non-measurable lesions at baseline by BICR) n=61 for TAGRISSO and n=67 for EGFR TKI comparator; responses are unconfirmed

b Nominally statistically significant

A pre-specified PFS subgroup based on CNS metastases status (identified by CNS lesion site at baseline, medical history, and/or prior surgery, and/or prior radiotherapy to CNS metastases) at study entry was performed in FLAURA and is shown in Figure 2. Irrespective of CNS lesion status at study entry, patients in the TAGRISSO arm demonstrated an efficacy benefit over those in the EGFR TKI comparator arm.

**Figure 2. Overall PFS by investigator assessment by CNS metastases status at study entry, Kaplan-Meier plot (full analysis set) in FLAURA**



Irrespective of CNS lesion status at study entry, based on investigator assessment, there were fewer patients with new CNS lesions in the TAGRISSO arm compared to the EGFR TKI comparator arm (TAGRISSO, 11/279 [3.9%] compared to EGFR TKI comparator, 34/277 [12.3%]). In the subset of patients without CNS lesions at baseline, there were a lower number of new CNS lesions in the TAGRISSO arm compared to the EGFR TKI comparator arm (7/226 [3.1%] vs. 15/214 [7.0%], respectively).

### Patient Reported Outcomes (PRO)

Patient-reported symptoms and health-related quality of life (HRQL) were electronically collected using the EORTC QLQ-C30 and its lung cancer module (EORTC QLQ-LC13). At baseline, no differences in patient reported symptoms, function or HRQL were observed between TAGRISSO and EGFR TKI comparator (gefitinib or erlotinib) arms. Data collected from baseline up to month 9 showed similar improvements in TAGRISSO and EGFR TKI comparator groups for the five pre-specified primary PRO symptoms (cough, dyspnea, chest pain, fatigue, and appetite loss). Up to month 9, there were no clinically meaningful differences (as assessed by a difference of  $\geq 10$  points) between the TAGRISSO and EGFR TKI comparator groups in functioning or HRQL.

## **EGFR T790M Mutation-Positive Advanced NSCLC – AURA3 Trial**

### **Pre-treated EGFR T790M Mutation-Positive Locally Advanced/Metastatic NSCLC**

The efficacy and safety of TAGRISSO (osimertinib) 80 mg tablets for the treatment of patients with locally advanced or metastatic EGFR T790M NSCLC whose disease has progressed on or after EGFR TKI therapy, was demonstrated in a randomized, open label, active-controlled Phase III trial (AURA3). All patients were required to have EGFR T790M mutation positive NSCLC identified by the cobas EGFR mutation test performed in a central laboratory prior to randomization. The EGFR T790M mutation status was also assessed using ctDNA extracted from a plasma sample taken during screening. The primary efficacy endpoint was progression-free survival (PFS) as assessed by the investigator. Secondary efficacy endpoints included objective response rate (ORR), duration of response (DoR) and overall survival (OS) as assessed by the investigator.

Patients were randomized in a 2:1 (TAGRISSO: platinum-based doublet chemotherapy) ratio to receive TAGRISSO (n=279) or platinum-based doublet chemotherapy (n=140). Randomization was stratified by ethnicity (Asian and non-Asian). Patients in the TAGRISSO arm received TAGRISSO 80 mg orally once daily until intolerance to therapy, or the investigator determined that the patient was no longer experiencing clinical benefit. Chemotherapy consisted of pemetrexed 500 mg/m<sup>2</sup> with carboplatin AUC5 or pemetrexed 500 mg/m<sup>2</sup> with cisplatin 75 mg/m<sup>2</sup> on Day 1 of every 21-day cycle for up to 6 cycles. Patients whose disease has not progressed after four cycles of platinum-based chemotherapy may receive pemetrexed maintenance therapy (pemetrexed 500 mg/m<sup>2</sup> on Day 1 of every 21-day cycle). Subjects on the chemotherapy arm who had objective radiological progression (by the investigator and confirmed by independent central imaging review) were given the opportunity to cross over to receive treatment with TAGRISSO.

### ***Trial Demographics***

Demographic and disease characteristics for AURA3 are provided in Table 11.

**Table 11 Demographic and disease characteristics in Phase III AURA3 trial (Full analysis set)**

<b>Characteristic</b>	<b>TAGRISSO 80mg (N=279)</b>	<b>Chemotherapy (N=140)</b>	<b>Total (N=419)</b>
<b>Age (years), n (%)</b>			
Median (range)	62.0 (25-85)	63.0 (20-90)	62.0 (20-90)
<65	165 (59.2)	77 (55.0)	242 (57.8)
≥65-<75	72 (25.8)	41 (29.3)	113 (27.0)
≥75	42 (15.1)	22 (15.7)	64 (15.3)
<b>Sex, n (%)</b>			
Male	107 (38.4)	43 (30.7)	150 (35.8)
Female	172 (61.6)	97 (69.3)	269 (64.2)
<b>Race, n (%)</b>			
White	89 (31.9)	45 (32.1)	134 (32.0)
Black or African American	4 (1.4)	1 (0.7)	5 (1.2)

**Table 11 Demographic and disease characteristics in Phase III AURA3 trial (Full analysis set)**

Characteristic	TAGRISSO 80mg (N=279)	Chemotherapy (N=140)	Total (N=419)
Asian	182 (65.2)	92 (65.7)	274 (65.4)
Other	4 (1.4)	2 (1.4)	6 (1.4)
<b>Smoking status, n (%)</b>			
Never	189 (67.7)	94 (67.1)	283 (67.5)
Current	14 (5.0)	8 (5.7)	22 (5.3)
Former	76 (27.2)	38 (27.1)	114 (27.2)
<b>WHO performance status, n (%)</b>			
0 (Normal activity)	102 (36.6)	56 (40.0)	158 (37.7)
1 (Restricted activity)	177 (63.4)	84 (60.0)	261 (62.3)
<b>Histology type</b>			
Squamous cell carcinoma (NOS)	3 (1.1)	0 (0.0)	3 (0.7)
Adenocarcinoma <sup>b</sup>	274 (98.2)	139 (99.3)	413 (98.6)
Non-small cell carcinoma	0 (0.0)	1 (0.7)	1 (0.2)
Adenosquamous carcinoma	2 (0.7)	0 (0.0)	2 (0.5)
<b>Overall disease classification</b>			
Metastatic	266 (95.3)	138 (98.6)	404 (96.4)
Locally advanced	13 (4.7)	2 (1.4)	15 (3.6)
<b>Metastases</b>			
CNS <sup>a</sup>	93 (33.3)	51 (36.4)	144 (34.4)
Extra-thoracic Visceral	145 (52.0)	80 (57.1)	225 (53.7)
Liver	56 (20.1)	41 (29.3)	97 (23.2)
Bone/locomotor	105 (37.6)	71 (50.7)	176 (42.0)
<b>Number of previous anti-cancer treatment regimens for advanced disease</b>			
1	269 (96.4)	134 (95.7)	403 (96.2)
2	9 (3.2)	6 (4.3)	15 (3.6)
3	1 (0.4)	0 (0.0)	1 (0.2)
Median (range)	1.0 (1-3)	1.0 (1-2)	1.0 (1-3)
<b>EGFR Mutations by cobas® central test</b>			
EGFR EXON 20 T790M	275 (98.6)	138 (98.6)	413 (98.6)
EGFR EXON 21 L858R	83 (29.7)	45 (32.1)	128 (30.5)
EGFR EXON 19 Deletion	191 (68.5)	87 (62.1)	278 (66.3)
G719X	4 (1.4)	2 (1.4)	6 (1.4)
S768I	1 (0.4)	1 (0.7)	2 (0.5)
EGFR EXON 20 Insertion	1 (0.4)	2 (1.4)	3 (0.7)
<b>Duration of Prior EGFR TKI Therapy</b>			
<6 Months	17 (6.1)	7 (5.0)	24 (5.7)
≥ 6 Months	262 (93.9)	133 (95.0)	395 (94.3)

a CNS metastases at study entry identified by CNS lesion site at baseline, medical history, and/or prior surgery, and/or prior radiotherapy to CNS metastases.

b Includes: Adenocarcinoma (Not otherwise specified); Adenocarcinoma: acinar; Adenocarcinoma: papillary; Adenocarcinoma: bronchioloalveolar; Adenocarcinoma: solid with mucus formation and; Adenocarcinoma: bronchioloalveolar carcinoma (bac) and papillary.

## Trial Results

At the time of the primary PFS analysis, 43.9% of patients were ongoing on their randomised treatment (59.5% in the TAGRISSO arm and 11.8% in the chemotherapy arm).

AURA3 demonstrated a clinically meaningful and statistically significant improvement in PFS in the patients treated with TAGRISSO compared to chemotherapy. Efficacy results from AURA3 by investigator assessment are summarized in Table 12, and the Kaplan-Meier curve for PFS is shown in Figure 3.

**Table 12 Efficacy results from AURA3 by investigator assessment (Full analysis set)**

Efficacy Parameter	TAGRISSO (n=279)	Chemotherapy (n=140)
<b>Progression-Free Survival</b>		
Number of Events (% maturity)	140 (50)	110 (79)
Median, Months (95% CI)	10.1 (8.3, 12.3)	4.4 (4.2, 5.6)
HR (95% CI); P-value	0.30 (0.23, 0.41); P-value <0.001	
<b>Overall Survival<sup>a</sup></b>		
Number of deaths (% maturity)	69 (24.7)	40 (28.6)
Median OS, Months (95% CI)	NC (20.5, NC)	NC (20.5, NC)
HR (95% CI); P-value	0.72 (0.48, 1.09); P-value =0.121	
<b>Objective Response Rate</b>		
Number of responses <sup>b</sup> ,	197	44
Response Rate (95% CI)	71 (65, 76)	31 (24, 40)
Complete Response, n(%) <sup>b</sup>	4 (1.4)	2 (1.4)
Partial Response, n(%) <sup>b</sup>	193 (69.2)	42 (30.0)
Odds ratio (95% CI); P-value	5.4 (3.5, 8.5); P-value <0.001	
<b>Duration of Response</b>		
Median, Months (95% CI)	9.7 (8.3, 11.6)	4.1 (3.0, 5.6)

CI=confidence interval; HR=Hazard Ratio; NC=Non-calculable

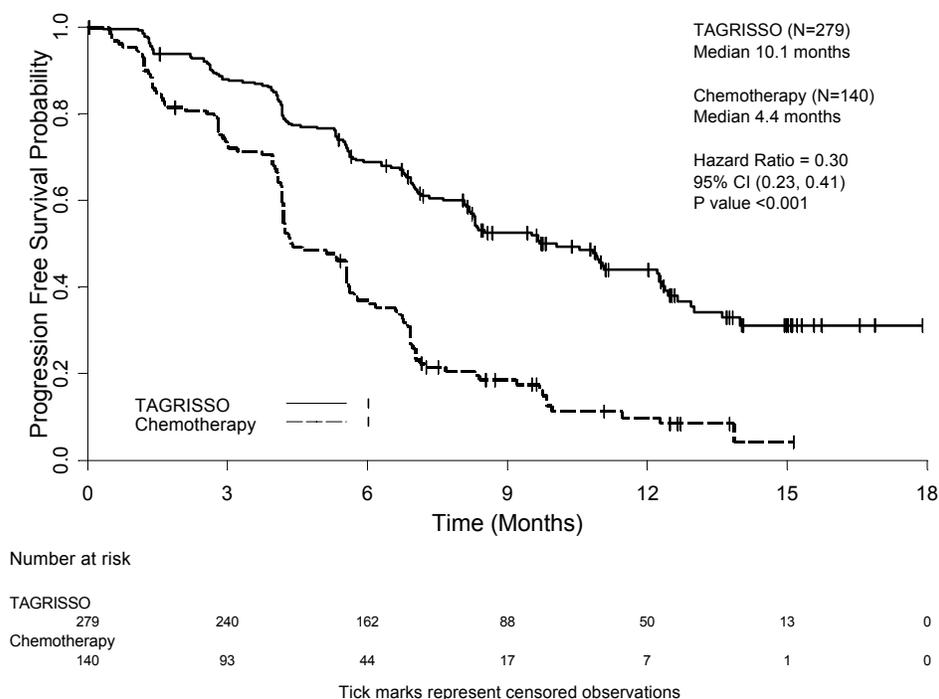
All efficacy results based on RECIST investigator assessment

A HR<1 favours TAGRISSO

<sup>a</sup> The first analysis of OS was performed approximately 4 months after the primary analysis of PFS. The OS analysis was not adjusted for the potentially confounding effects of patients that crossed over on the chemotherapy arm to receive subsequent TAGRISSO treatment (94 [67%] patients).

<sup>b</sup> Response does not require confirmation

**Figure 3** **Kaplan-Meier Curves of Progression-Free Survival as assessed by investigator in AURA3**



The AURA3 primary outcome measure included a sensitivity analysis of PFS using Blinded Independent Central Review (BICR); this analysis demonstrated a consistent treatment effect (HR 0.28; 95% CI: 0.20, 0.38;  $p < 0.0001$ ) with that observed by investigator assessment.

Clinically meaningful improvements in PFS with HRs less than 0.50 in favour of patients receiving TAGRISSO compared to those receiving chemotherapy were consistently observed in all predefined subgroups analysed, including ethnicity, age, gender, smoking history, CNS metastases status at study entry, EGFR mutation (Exon 19 deletion and L858R), and duration of first-line therapy with an EGFR-TKI.

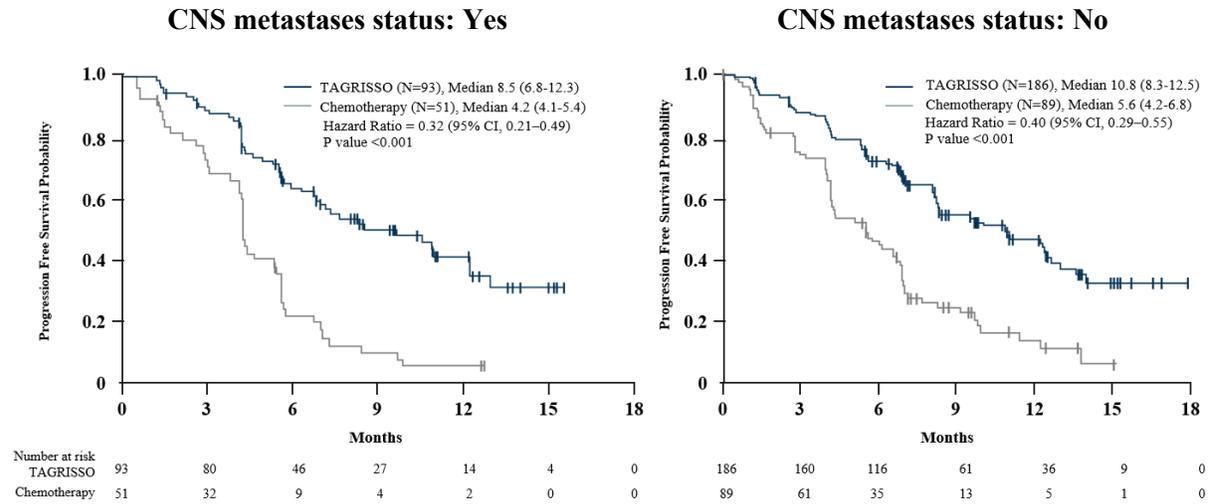
Among the patients in AURA3 treated with TAGRISSO with objective responses, 81.7% (161/279) had documentation of response at 6 weeks, and 94.9% (187/279) had documentation of response at 12 weeks.

Overall survival data were not mature at the time of the PFS analysis. OS benefit of osimertinib has not been established.

*CNS Metastasis Efficacy Data in AURA3 Trial*

An analysis of PFS by investigator assessment using RECIST v1.1 was performed in 419 patients based on CNS metastases status (Yes or No) at study entry (see Figure 4). The benefit of TAGRISSO was reported in patients with or without CNS metastases at baseline.

**Figure 4** Kaplan-Meier curve of overall PFS by CNS metastases status at study entry in AURA3 as assessed by investigator (Full analysis set)



A BICR assessment of CNS efficacy by RECIST v1.1 was performed in a subgroup of 116/419 (28%) patients identified to have CNS metastases on a baseline brain scan are summarized in Table 13.

**Table 13** CNS efficacy by BICR in patients with CNS metastases on a baseline brain scan in AURA3 (Full analysis set)

Efficacy Parameter	TAGRISSO	Chemotherapy
<b>CNS Objective Response Rate<sup>a</sup></b>		
CNS response rate %, (n/N) (95% CI)	70% (21/30) (51, 85)	31% (5/16) (11, 59)
Complete Response, n (%)	2 (6.7)	1 (6.3)
Partial Response, n (%)	19 (63.3)	4 (25.0)
Odds Ratio (95% CI); P-value	5.1 (1.4, 21); P-value = 0.015	
<b>CNS Duration of Response<sup>b</sup></b>		
Median, Months (95% CI)	8.9 (4.3, NC)	5.7 (NC, NC)
<b>CNS Disease Control Rate (DCR)</b>		

<b>Efficacy Parameter</b>	<b>TAGRISSE</b>	<b>Chemotherapy</b>
DCR (Number with CNS disease control) (95% CI)	87% (65/75) (77, 93)	68% (28/41) (52, 82)
Odds Ratio (95% CI); P-value	3 (1.2, 7.9); P-value = 0.021	
<b>CNS Progression-free survival<sup>c</sup></b>	N=75	N=41
Number of Events (% maturity)	19 (25)	16 (39)
Median, Months (95% CI)	11.7 (10, NC)	5.6 (4.2, 9.7)
HR (95% CI); P-value	0.32 (0.15, 0.69); P-value = 0.004	

CI=confidence interval; HR=Hazard Ratio; NC=Non-calculable

A HR < 1 favours TAGRISSO

- <sup>a</sup> CNS ORR and DoR determined by RECIST v1.1 by CNS BICR in the evaluable for response population (CNS measurable lesions at baseline by BICR) n=30 for TAGRISSO and n=16 for Chemotherapy.
- <sup>b</sup> Based on patients in the evaluable for response population with response only; DoR defined as the time from the date of first documented response (complete response or partial response, or stable disease ≥6 weeks).
- <sup>c</sup> CNS PFS determined by RECIST v1.1 by CNS BICR in the full analysis set population (CNS measurable and non-measurable lesions at baseline by BICR) N=75 for TAGRISSO and N=41 for Chemotherapy.

Thirty-seven (37%) percent (28/75) of patients treated with TAGRISSO and with BICR identified CNS metastases had received prior brain radiation, including 19% (14/75) who completed radiation treatment within 6 months before starting treatment. CNS responses were observed irrespective of prior brain radiation status.

TAGRISSE decreased the appearance of new CNS metastases (4.7%) as compared with chemotherapy (14.3%) according to RECIST v1.1 by investigator assessment; 2.5% compared to 9.3%, respectively based on BICR assessment.

### **EGFR T790M Mutation-Positive Advanced NSCLC - Phase II (AURAex and AURA2) Trials**

The use of TAGRISSO 80 mg in the treatment of patients with locally advanced or metastatic EGFR T790M mutation-positive NSCLC who progressed on prior systemic therapies, including an EGFR TKI was investigated in two Phase II, multicenter, single-arm, open-label clinical trials, AURAex (Phase II Extension cohort of 201 patients) and AURA2 (210 patients). All patients were required to have EGFR T790M mutation-positive NSCLC, identified by the cobas EGFR mutation test performed in a central laboratory prior to dosing.

The primary efficacy endpoint of both trials was objective response rate (ORR) based on BICR using RECIST v1.1. Secondary efficacy endpoints included DoR.

Baseline characteristics of the overall study population (AURAex and AURA2) were as follows: median age 63 years, 13% of patients were ≥75 years old, female (68%), White (36%), Asian (60%). All patients received at least one prior line of therapy. Thirty-one percent (31%) had received 1 prior line of therapy (EGFR-TKI treatment only, second line,

chemotherapy naïve), 69% had received 2 or more prior lines. Seventy-two percent (72%) of patients were never smokers, 100% of patients had a World Health Organization (WHO) performance status of 0 or 1. Fifty-nine percent (59%) of patients had extra-thoracic visceral metastasis including 39% with CNS metastases (identified by CNS lesion site at baseline, medical history, and/or prior surgery and/or prior radiotherapy to CNS metastases) and 29% with liver metastases. Forty-seven percent (47%) of patients had metastatic bone disease.

With a median duration of follow-up of 13 months (AURAex and AURA2) in the 411 patients, the ORR was 66% (95% CI: 61, 71). In patients with a confirmed response, the median DoR was 12.5 months (95% CI: 11.1, non-evaluable).

Objective response rates above 50% were observed in all predefined subgroups analysed, including line of therapy, race, age and region.

#### CNS Metastases Efficacy Data in Phase II Trials (AURAex and AURA2)

A BICR assessment of CNS efficacy by RECIST v1.1 was performed in a subgroup of 50 (out of 411) patients identified to have measurable CNS metastases on a baseline brain scan. A CNS ORR of 54% (27/50 patients; 95% CI: 39.3, 68.2) was observed with 12% being complete responses.

## DETAILED PHARMACOLOGY

TAGRISSO (osimertinib) has been evaluated in preclinical *in vitro* and *in vivo* models to determine its primary pharmacology and mode of action. *In vitro* studies have demonstrated that TAGRISSO has high potency and inhibitory activity against EGFR across a range of all clinically relevant EGFR sensitising-mutant (EGFR<sub>m</sub>) and T790M mutant non-small cell lung cancer (NSCLC) cell lines (apparent IC<sub>50</sub>s from 6 nM to 54 nM against phospho-EGFR). This leads to inhibition of cell growth, while showing significantly less activity against EGFR in wild-type cell lines (apparent IC<sub>50</sub>s 480 nM to 1.8 µM against phospho-EGFR). *In vivo* oral administration of TAGRISSO led to profound and durable tumour shrinkage in both EGFR<sub>m</sub> and T790M NSCLC xenograft and transgenic mouse lung tumour models.

**Cardiovascular:** Osimertinib inhibited the hERG (human ether-a-go-go-related gene)-encoded potassium channel in Chinese Hamster Ovary cells (N=4) with an IC<sub>50</sub> of 0.69 µM. Osimertinib caused statistically significant decreases in heart rate (15-20%) and increases in the QT interval (5-7%) in conscious telemetry dogs (N=4) following oral administration of single ascending doses of 0, 6, 20 and 60 mg/kg, which produced mean osimertinib C<sub>max</sub> values of 1, 0.52, 1.71 and 2.51 µmol/L, respectively.

**Non-clinical Pharmacokinetics:** Quantitative whole body autoradiography study in rats upon single oral dosing demonstrated that [<sup>14</sup>C]-osimertinib-related radioactivity was rapidly and well distributed into most tissues, including the central nervous system. The distribution of radioactivity in pigmented rats resembled that found in albino rats, except for that in melanin containing tissues, where the concentration of radioactivity was high, and still measurable 60 days post-dose.

Plasma protein binding has not been determined. Osimertinib binds covalently to human serum albumin.

In all species, osimertinib related material was primarily excreted in the feces with < 5% recovered in urine.

**CNS Distribution and *In Vivo* Intracranial Tumour Regression:** TAGRISSO crosses the blood-brain barrier and is active in the Central Nervous System in non-clinical models.

In a rat study, a single oral dose of [<sup>14</sup>C]-osimertinib was distributed to the intact brain with a maximum blood ratio of 2.2, with brain radioactivity levels being detectable out to 21 days. In a IV micro-dose PET study, [<sup>11</sup>C] osimertinib penetrated the blood-brain barrier of the intact cynomolgus monkey brain (brain to blood AUC ratio of 2.62). Osimertinib was also distributed to the intact mouse brain (brain to plasma AUC ratio 1.8-2.8) following oral dosing.

These data are consistent with observations of anti-tumour activity of osimertinib in a pre-clinical mutant-EGFR intracranial brain mouse metastasis xenograft model (PC9; exon 19 del), osimertinib (25 mg/kg/day) demonstrated significant tumour regression that was sustained during the 60 day study period, and was associated with an increase in survival of the mice compared to control animals (78% survival after 8 weeks for osimertinib compared to 11% in control group).

**Drug interactions:** Based on *in vitro* studies, osimertinib is a competitive inhibitor of CYP 3A4/5 but not 1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6 and 2E1 at clinically relevant concentrations. *In vitro*, osimertinib is not an inhibitor of UGT1A1 and UGT2B7 at clinically relevant concentrations hepatically. Intestinal inhibition of UGT1A1 is possible but the clinical impact is unknown.

## TOXICOLOGY

**Carcinogenesis and Mutagenesis:** The main findings observed in repeat dose toxicity studies in rats and dogs comprised atrophic, inflammatory and/or degenerative changes affecting the epithelia of the eye (cornea), GI tract (including tongue), skin, and male and female reproductive tracts. These findings occurred at plasma concentrations that were below those seen in patients at the 80 mg therapeutic dose. The findings present following 1 month of dosing were largely reversible within 1 month of cessation of dosing. Carcinogenicity studies have not been performed with TAGRISSO. TAGRISSO did not cause genetic damage in *in vitro* and *in vivo* assays.

**Reproductive Toxicology:** Based on studies in animals, male fertility may be impaired by treatment with TAGRISSO. Degenerative changes were present in the testes in rats and dogs exposed to TAGRISSO for ≥1 month and there was a reduction in male fertility in rats following exposure to TAGRISSO for 3 months. These findings were seen at clinically relevant plasma concentrations. Pathology findings in the testes seen following 1 month

dosing were reversible in rats; however, a definitive statement on reversibility of lesions in dogs cannot be made.

Based on studies in animals, female fertility may be impaired by treatment with TAGRISSO. In repeat dose toxicity studies, an increased incidence of anestrus, corpora lutea degeneration in the ovaries and epithelial thinning in the uterus and vagina were seen in rats exposed to TAGRISSO for  $\geq 1$  month at clinically relevant plasma concentrations. Findings in the ovaries seen following 1 month dosing were reversible. In a female fertility study in rats, administration of TAGRISSO at 20 mg/kg/day (approximately equal to the recommended daily clinical dose of 80 mg) had no effects on estrus cycling or the number of females becoming pregnant, but caused early embryonic deaths. These findings showed evidence of reversibility following a 1-month off-dose.

In a modified embryofetal development study in the rat, osimertinib caused embryoletality when administered to pregnant rats prior to embryonic implantation. These effects were seen at a maternally tolerated dose of 20 mg/kg/day where exposure was equivalent to the human exposure at the recommended dose of 80 mg daily (based on total AUC). Exposure at doses of 20 mg/kg and above during organogenesis caused reduced fetal weights but no adverse effects on external or visceral fetal morphology. When osimertinib was administered to pregnant female rats throughout gestation and then through early lactation, there was demonstrable exposure to osimertinib and its metabolites in suckling pups plus a reduction in pup survival and poor pup growth (at doses of 20 mg/kg and above).

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## READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

### PATIENT MEDICATION INFORMATION

 **TAGRISSE®**

**Osimertinib tablets**

Read this carefully before you start taking **TAGRISSE** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **TAGRISSE**.

#### **Serious Warnings and Precautions**

**TAGRISSE should only be prescribed by a doctor with experience in the use of anti-cancer drugs.**

**These are rare but serious side effects that have been seen in patients taking TAGRISSE:**

- **Serious Lung Problems (interstitial lung disease (including pneumonitis)):** This can cause inflamed or scarred lungs and death in some cases.
- **Serious Electrical Problems with the Heart: Abnormal electrical signal of the heart (QT interval prolongation).**
- **Heart Failure and an Enlarged Heart: When your heart is weak and can't pump well enough to get blood to the body. It may lead to death.**

#### **What is TAGRISSE used for?**

TAGRISSE is used in adults to treat a type of cancer called 'non-small cell lung cancer'. It is used when your cancer is locally advanced or metastatic. This means it cannot be taken out by surgery or that it has spread to other parts of the body.

TAGRISSE can be prescribed for you if:

- You test positive for an 'EGFR exon 19 deletion mutation' or an 'EGFR exon 21 (L858R) substitution mutation' – for the initial treatment of your cancer. EGFR means Epidermal Growth Factor Receptor.  
or  
You test positive for an 'EGFR T790M mutation' – you may have been treated before with other EGFR inhibitor medicines.

### **How does TAGRISSO work?**

TAGRISSO is a type of drug that targets EGFR sensitising mutations and T790M mutations and may help to slow or stop your lung cancer from growing. It may also help to shrink the tumour. TAGRISSO has been shown to produce effects on the tumour within 6 to 12 weeks of starting therapy. However, this may vary from patient to patient.

### **What are the ingredients in TAGRISSO?**

Medicinal ingredient: osimertinib mesylate

Non-medicinal ingredients: black iron oxide, mannitol, microcrystalline cellulose, low-substituted hydroxypropyl cellulose, macrogol, polyvinyl alcohol, red iron oxide, sodium stearyl fumarate, talc, titanium dioxide, and yellow iron oxide.

### **TAGRISSO comes in the following dosage forms:**

Tablets, 40 and 80 mg.

### **Do not use TAGRISSO if:**

- you are allergic to osimertinib or any of the other ingredients of TAGRISSO or the container.

**To help avoid side effects and ensure proper use, talk to your healthcare professional before you take TAGRISSO. Talk about any health conditions or problems you may have, including if you:**

- have suffered from **interstitial lung disease (including pneumonitis)** which means that your lungs were inflamed or scarred.
- have ever had heart problems.
- have a family history of sudden cardiac death before 50 years of age.
- are dehydrated or suffer from excessive vomiting or eating disorders.
- have problems with your electrolytes such as low levels of potassium in the blood (hypokalemia), low levels of magnesium in the blood (hypomagnesemia) or low levels of calcium in the blood (hypocalcemia).
- have a history of fainting.
- have liver disease or kidney disease.
- have a history of eye problems.
- wear contact lenses.
- have any other medical conditions.

### **Other warnings you should know about:**

- You will need to have your cancer tested to see if you have the EGFR T790M mutation before taking TAGRISSO.
- TAGRISSO should not be used in children and adolescents under 18 years of age.

**Skin and nail problems** can occur. You may get rash, dry skin, itching and problems with your nails. These are more likely in areas exposed to the sun. This can include **paronychia** which is red, hot, painful pus-filled blisters or swelling around the nail or an infection where

the nail and skin meet at the side or the base of a fingernail or toenail. Consider using moisturizers regularly on your skin and nails to help control these problems.

**Eye problems** can occur. You should tell your doctor right away if you get any symptoms of eye problems: eye pain, swelling, redness with a gritty feeling, watery eyes; blurred vision, sensitivity to light, sudden changes in your eyesight, or other eyesight changes. If left untreated, your eye problems may worsen and may lead to loss of eyesight. You may be at increased risk if you wear contact lenses.

## **Pregnancy, contraception and breastfeeding – information for women and men**

### **Pregnancy – information for women**

- You must not take TAGRISSO if you are pregnant. This is because it may harm your unborn baby.
- TAGRISSO can cause miscarriage.
- Do not get pregnant while taking TAGRISSO. If you are able to get pregnant, you must use effective birth control.
- If you get pregnant during treatment, tell your doctor immediately. Your doctor will decide with you if you should continue to take TAGRISSO.
- If you plan to get pregnant after taking the last dose of TAGRISSO, ask your doctor for advice. This is because TAGRISSO may remain in your body after the last dose.

### **Pregnancy – information for men**

Avoid fathering a child during treatment. If your partner gets pregnant while you are taking TAGRISSO, tell her doctor right away.

### **Birth Control - information for women and men**

You must use effective birth control during treatment.

Men taking TAGRISSO must use a condom because the drug may pass into the sperm. **After you finish treatment with TAGRISSO:**

- **Women** must keep using birth control for at least 2 months.
- **Men** must keep using birth control for at least 4 months.

### **Breastfeeding**

Do not breastfeed while taking TAGRISSO. It may get into breast milk and harm your baby.

**Driving and using machines:** Do not drive or use any tools or machines if you feel dizzy or get any symptoms that affect your eyesight, ability to concentrate or react.

**Tell your healthcare professional about all of the medicines you are taking, have recently taken or might take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.** This is because TAGRISSO can affect the way some other medicines work. Also, some other medicines can affect the way TAGRISSO works. For example:

### **The following may interact with TAGRISSO in different ways:**

Some drugs that may reduce how well TAGRISSO works:

- Phenytoin, carbamazepine or phenobarbital. They are used for seizures or fits.
- Rifabutin or rifampicin. They are used for tuberculosis (TB).
- St. John's Wort (*Hypericum perforatum*). It is an herbal medicine used for depression. You should avoid using this product while taking TAGRISSO.

TAGRISSO may affect how well the following medicines work or may lead to increased side effects:

- Rosuvastatin – used to lower cholesterol
- Daunorubicin, doxorubicin, paclitaxel and topotecan - used for cancer
- Dabigatran etexilate – used to prevent blood clots
- Digoxin – used to treat irregular heart beat or other heart problems
- Aliskiren – used for high blood pressure

In addition, the following list includes some, but not all, medicines that may increase the risk of heart rhythm problems while receiving TAGRISSO:

- Medicines for heart rhythm problems (antiarrhythmics) such as quinidine, amiodarone and flecainide
- Antipsychotics such as chlorpromazine, pimozide haloperidol, droperidol, ziprasidone and risperidone
- Antidepressants such as fluoxetine and citalopram
- Opioids such as methadone
- Macrolide antibiotics and analogues such as erythromycin and tacrolimus
- Quinolone antibiotics such as moxifloxacin and levofloxacin
- Pentamidine – used to treat pneumonia
- Antimalarials such as quinine and chloroquine
- Antifungals such as ketoconazole and fluconazole
- Medicines for nausea and vomiting such as domperidone and ondansetron
- Other cancer medicines such as sunitinib, nilotinib, arsenic trioxide and vorinostat
- Medicines for asthma such as salmeterol and formoterol
- Medicines that decrease electrolyte levels such as loop, thiazide and related diuretics; laxatives and enemas; amphotericin B and high-dose corticosteroids

### **How to take TAGRISSO:**

Always take this medicine exactly as your doctor or pharmacist has told you. Do not stop taking this medicine - talk to your doctor first. It is important to take this medicine **every day**, for as long as your doctor prescribes it for you. If you do not take this medicine as prescribed by your doctor, your cancer may grow again. Check with your doctor or pharmacist if you are not sure.

### **Take TAGRISSO:**

- By mouth, with or without food, every day at about the same time.
- Swallow the tablet whole with water. Do NOT crush, split or chew the tablet.

If you have trouble swallowing the tablet, you can mix it in water:

- Put the tablet in a glass - do not crush, split or chew the tablet.
- Add 50 mL of non-carbonated, room temperature water - do not use any other liquids.
- Stir the water until the tablet breaks-up into very small pieces - the tablet will not completely dissolve.
- Drink the liquid immediately.
- To make sure you have taken all of the medicine, rinse the glass thoroughly with another 50 mL of water and drink it.

**Usual Adult Dose:** One 80 mg tablet every day in a single dose.

If necessary, your doctor may need to adjust your dose:

- **Reduced Adult Dose:** One 40 mg tablet every day in a single dose.
- **Increased Adult Dose:** Two 80 mg tablets (160 mg) every day in a single dose.

**Overdose:**

If you think you have taken too much TAGRISSO contact your healthcare professional, hospital emergency department or regional Poison Control Centre immediately, even if you do not have symptoms.

**Missed Dose:**

If you forget a dose, take it as soon as you remember it. However, if it is less than 12 hours until your next dose is due, skip the missed dose. Take your next normal dose at its scheduled time.

**What are possible side effects from using TAGRISSO?**

These are not all the possible side effects you may feel when taking TAGRISSO. If you experience any side effects not listed here, contact your healthcare professional. Please also see the Serious Warnings and Precautions Box above. Side effects may include:

- Decrease in appetite, sores inside the mouth
- Vomiting
- Headache, dizziness, decreased ability to concentrate or react
- Weakness, feeling tired
- Back pain
- Cough
- Nose or throat infection, runny or stuffy nose
- Nose bleeds
- Changes in eyesight

TAGRISSO can cause abnormal test results. Your doctor will decide when to do necessary tests. They include heart tests such as Echocardiogram and Electrocardiogram (ECG). Eye exams may be needed. Blood tests are needed before you start and while taking TAGRISSO. Your doctor will interpret the results.

<b>Serious side effects and what to do about them</b>			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
<b>VERY COMMON</b>			
<b>Diarrhea</b> that comes and goes: At least 3 loose liquid bowel movements a day.	√		
<b>Nausea, Constipation</b>	√		
<b>Stomatitis:</b> ulcer or sore, red and inflamed areas on the lips or inside the mouth.	√		
<b>Decreased white blood cells</b> (leukocytes, lymphocytes or neutrophils): infections, fatigue, fever, aches, pains, and flu-like symptoms.		√	
<b>Decreased platelets:</b> bruising, bleeding, fatigue, and weakness.		√	
<b>Skin and nail problems:</b> itching, dry skin, rash, redness. <b>Paronychia (nail infection):</b> red, hot, painful pus-filled blisters around the nail, with swelling. Detached, discoloured or abnormally shaped nails.		√	
<b>COMMON</b>			
<b>Lung problems (interstitial lung disease, pneumonitis, pneumonia):</b> serious or suddenly worse shortness of breath, wheezing, tiredness, possibly with a cough or fever. Painful breathing. This can cause death in some cases.			√
<b>Electrical problems with the heart (QT interval prolongation) that could lead to heart rhythm disturbances:</b> fatigue, weakness, dizziness, fainting, being lightheaded or loss of consciousness, irregular heartbeat.			√
<b>Heart failure and an enlarged heart (left ventricular dysfunction, cardiomyopathy and congestive heart failure):</b> tiredness along with swollen ankles, shortness of breath especially when lying down.			√
<b>Liver disorder, jaundice, toxicity, or failure:</b> yellow skin or eyes, dark urine, abdominal pain, nausea, vomiting, loss of appetite.		√	

<b>Serious side effects and what to do about them</b>			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
<b>Eye infection</b> (conjunctivitis): itchy, red eyes with discharge, and swelling. <b>Eye problems:</b> trouble seeing, blurred vision, dry eye.		√	
<b>Pulmonary embolism:</b> shortness of breath, chest pain particularly upon breathing in, and coughing up blood.			√
<b>Shortness of breath</b>		√	
<b>Acute respiratory failure:</b> sudden worsening of shortness of breath, bluish colour on skin, lips, and fingernails, irregular heartbeats, feel sleepy, loss of consciousness.			√
<b>UNCOMMON</b>			
<b>Pulmonary edema</b> (fluid in the air spaces of the lungs): difficult breathing that is worse when you lie down. Cough up blood or blood-tinged froth.		√	
<b>Reduced kidney function:</b> change in frequency of urination, pain when you urinate, nausea, vomiting, swelling of extremities, fatigue.	√		
<b>Keratitis</b> (red eye with a 'gritty' sensation): eye pain, eye swelling and redness, watery eyes, vision changes, and sensitivity to light.		√	
<b>Erythema multiforme:</b> skin reaction with target lesions that look like rings.			√
<b>RARE</b>			
<b>Stevens-Johnson syndrome:</b> severe blistering or peeling of skin.			√
<b>UNKNOWN</b>			
<b>Allergic reactions:</b> itch, rash, hives, swelling of the lips, tongue or throat, difficulty swallowing or breathing.			√

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, talk to your healthcare professional.

### **Reporting Side Effects**

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/adverse-reaction-reporting.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

*NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.*

### **Storage:**

- Keep TAGRISSO out of sight and reach of children.
- Do not use this medicine after the expiry date (EXP) which is stated on the blister foil and carton. The expiry date refers to the last day of that month.
- Keep TAGRISSO tablets at room temperature (15-30°C).
- Do not use any pack that is damaged or shows signs of tampering.

### **If you want more information about TAGRISSO:**

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website at <http://www.canada.ca/en/health-canada.html>; the sponsor's website at [www.astrazeneca.ca](http://www.astrazeneca.ca), or by contacting the sponsor, AstraZeneca Canada Inc. at: Questions or concerns - 1 (800) 668-6000
- This Patient Medication Information is current at the time of printing. The most up-to-date version can be found at [www.astrazeneca.ca](http://www.astrazeneca.ca).

This leaflet was prepared by AstraZeneca Canada Inc., Mississauga, Ontario L4Y 1M4

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