

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use EROTINIB TABLETS safely and effectively. See full prescribing information for EROTINIB TABLETS.

EROTINIB TABLETS, for oral use

Initial U.S. Approval: 2004

INDICATIONS AND USAGE

EROTINIB TABLETS are a kinase inhibitor indicated for:

- The treatment of patients with metastatic non-small cell lung cancer (NSCLC) whose tumors have epidermal growth factor receptor (EGFR) exon 19 deletions or exon 21 (L858R) substitution mutations as detected by an FDA-approved test receiving first-line, maintenance, or second or greater line treatment after progression following at least one prior chemotherapy regimen. (1.1)
- First-line treatment of patients with locally advanced, unresectable or metastatic pancreatic cancer, in combination with gemcitabine. (1.2)

Limitations of Use:

- Safety and efficacy of erlotinib tablets have not been established in patients with NSCLC whose tumors have other EGFR mutations. (1.1)
- Erlotinib tablets are not recommended for use in combination with platinum-based chemotherapy. (1.1)

CONTRAINDICATIONS

None. (4)

WARNINGS AND PRECAUTIONS

- Interstitial Lung Disease (ILD).** Occurs in 1.1% of patients. Withhold erlotinib for acute onset of new or progressive unexplained pulmonary symptoms, such as dyspnea, cough and fever. Discontinue erlotinib if ILD is diagnosed. (5.1)
- Renal Failure.** Monitor renal function and electrolytes. For proton pump inhibitors avoid concomitant use if possible. For H₂-receptor antagonists, take erlotinib 10 hours after H₂-receptor antagonist dosing. For use with antiacids, separate dosing by several hours. (2.4, 7)
- Hepatic Impairment.** Occurs with or without hepatic impairment, including hepatic failure and hepatorenal syndrome. Monitor peripheral edema and other signs of fluid retention. For erlotinib for severe or worsening liver tests. (5.3)
- Gastrointestinal Perforations.** Discontinue erlotinib. (5.4)

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- Hepatic Impairment with or without Hepatic Impairment
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- Cerebrovascular Accident
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2.4 Dose Modifications

Adverse Reactions

Adverse Reaction	Erlotinib 150 mg QD				Placebo			
	Any Grade	Grade 3	Grade 4	%	Any Grade	Grade 3	Grade 4	%
Pulmonary ¹								
Interstitial Lung Disease (ILD)	Discontinue erlotinib tablets							
During diagnostic evaluation for possible ILD	Withhold erlotinib tablets ²							
Severe hepatic toxicity that does not resolve significantly or resolve within 3 weeks	Discontinue erlotinib tablets							
In patients with pre-existing hepatic impairment or biliary obstruction for doubling of bilirubin or tripling of transaminases above baseline	Withhold erlotinib tablets ² and consider discontinuation							
Hepatic ¹								
In patients with pre-existing hepatic impairment or biliary obstruction for doubling of bilirubin or tripling of transaminases above baseline	Withhold erlotinib tablets ² and consider discontinuation							
Renal ¹								
For severe (CTCAE grade 3 to 4) renal toxicity	Withhold erlotinib tablets ² and consider discontinuation							
Gastrointestinal ¹								
For persistent severe diarrhea not responsive to medical management (e.g., loperamide)	Withhold erlotinib tablets ²							
Skin ¹								
Severe bullous, blistering or exfoliating skin conditions	Discontinue erlotinib tablets							
For severe rash not responsive to medical management	Withhold erlotinib tablets ²							
Ocular ¹								
For keratitis (NCI-CTC version 4.0) grade 3 to 4 or for grade 2 lasting more than 2 weeks	Withhold erlotinib tablets ²							
For acute/worsening ocular disorders such as eye pain	Withhold erlotinib tablets ² and consider discontinuation							

Drug Interactions

If severe reactions occur with concomitant use of strong CYP3A4 inhibitors (such as atazanavir, clarithromycin, indinavir, nelfinavir, ritonavir, saquinavir, zalcitabine, zalcitabine, zalcitabine (TAO), zalcitabine, or grapefruit/ grapefruit juice) or when using concomitantly with an inhibitor of both CYP3A4 and CYP1A2 (e.g., ciprofloxacin).

WARNINGS AND PRECAUTIONS

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- Renal Failure.** Monitor renal function and electrolytes. For proton pump inhibitors avoid concomitant use if possible. For H₂-receptor antagonists, take erlotinib 10 hours after H₂-receptor antagonist dosing. For use with antiacids, separate dosing by several hours. (2.4, 7)
- Hepatic Impairment.** Occurs with or without hepatic impairment, including hepatic failure and hepatorenal syndrome. Monitor peripheral edema and other signs of fluid retention. For erlotinib for severe or worsening liver tests. (5.3)
- Gastrointestinal Perforations.** Discontinue erlotinib. (5.4)

ADVERSE REACTIONS

Most common adverse reactions (≥ 20%) with erlotinib from a pooled analysis in patients with NSCLC across all approved lines of therapy, with and without EGFR mutations, and in patients with pancreatic cancer were rash, diarrhea, anorexia, fatigue, dyspnea, cough, nausea, and vomiting. (6.1)

CONTRAINDICATIONS

None. (4)

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Pulmonary ¹								
Interstitial Lung Disease (ILD)	Discontinue erlotinib tablets					</		

until disease progression or unacceptable toxicity. The primary objective of the study was to determine if the administration of erlotinib after standard platinum-based chemotherapy in the treatment of NSCLC resulted in improved progression-free survival (PFS) when compared with placebo, in all patients or in patients with EGFR immunohistochemistry (IHC) positive tumors.

Baseline demographics of the overall study population were as follows: male (74%), age < 65 years (66%), ECOG PS 1 (69%), ECOG PS 0 (31%), white (84%), Asian (15%), current smoker (55%), past-smoker (27%), and never smoker (17%). Disease characteristics were as follows: Stage IV (75%), Stage IIIb with effusion (25%) as classified by AJCC (8th edition) with histologic subtypes of adenocarcinoma including bronchioloalveolar (45%), squamous (40%), and large cell (5%), and EGFR IHC positive (70%), negative (14%), indeterminate (4%), and missing (12%).

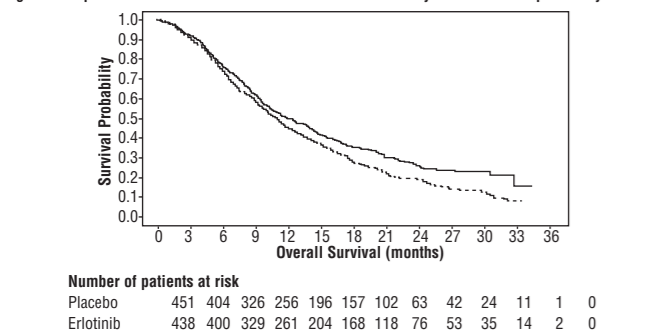
Table 7: Efficacy Results (Study 3): (ITT Population)¹

Efficacy Parameter	Erlotinib (N = 438)	Placebo (N = 451)
Progression-Free Survival (PFS) based on investigator assessment		
Number of Progression or Deaths (%)	349 (80%)	400 (89%)
Median PFS in Months (95% CI)	2.8 (2.8, 3.1)	2.6 (1.9, 2.7)
Hazard Ratio (95% CI) ²	0.71 (0.62, 0.82)	
p-value (stratified log-rank test) ^{2,3}	p < 0.0001	
Overall Survival (OS)		
Number of Deaths	298 (68%)	350 (78%)
Median OS in Months (95% CI)	12.0 (10.6, 13.9)	11.0 (9.9, 12.1)
Hazard Ratio (95% CI) ²	0.81 (0.70, 0.95)	
p-value (stratified log-rank test) ³	0.0088	

1. Patients with PD prior to randomization were excluded from PFS and TTP analysis.
2. Univariate Cox regression model.
3. Unstratified log-rank test.

Figure 2 depicts the Kaplan-Meier Curves for Overall Survival (ITT Population).

Figure 2: Kaplan-Meier Curves for Overall Survival of Patients by Treatment Group in Study 3



Note: HR is from a univariate Cox regression model.

Study 4

The efficacy and safety of single-agent erlotinib was assessed in Study 4, a randomized, double blind, placebo-controlled trial in 731 patients with locally advanced or metastatic NSCLC after failure of at least one chemotherapy regimen. Patients were randomized 2:1 to receive erlotinib 150 mg or placebo (488 erlotinib, 243 placebo) orally once daily until disease progression or unacceptable toxicity. Efficacy outcome measures included overall survival, response rate, and progression-free survival (PFS). Duration of response was also examined. The primary endpoint was survival. The study was conducted in 17 countries.

Baseline demographics of the overall study population were as follows: male (65%), White (78%), Asian (12%), Black (4%), age < 65 years (62%), ECOG PS 1 (53%), ECOG PS 0 (13%), ECOG PS 2 (25%), ECOG PS 3 (9%), current or ex-smoker (75%), never smoker (20%), and exposure to prior platinum therapy (93%). Tumor characteristics were as follows: adenocarcinoma (50%), squamous (30%), undifferentiated large cell (9%), and mixed non-small cell (2%).

The results of the study are shown in Table 8.

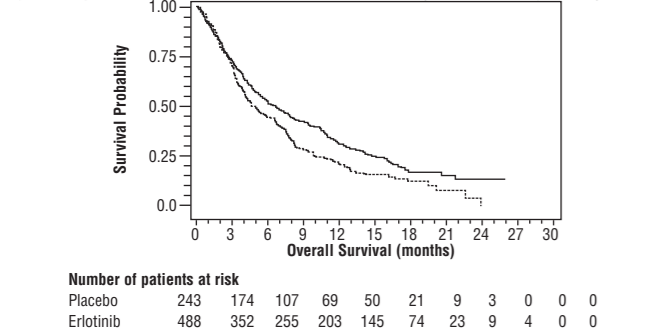
Table 8: Efficacy Results (Study 4)

Efficacy Parameter	Erlotinib (N = 488)	Placebo (N = 243)
Overall Survival (OS)		
Number of Deaths	378 (77%)	209 (86%)
Median OS in Months (95% CI)	6.7 (5.5, 7.8)	4.7 (4.1, 6.3)
Hazard Ratio (95% CI) ¹	0.73 (0.61, 0.86)	
p-value (stratified log-rank test) ²	p < 0.001	
Progression-Free Survival (PFS)		
Number of Progression or Deaths (%)	402 (82%)	211 (87%)
Median PFS in Months (95% CI)	2.3 (1.9, 3.3)	1.8 (1.8, 1.9)
Hazard Ratio (95% CI) ¹	0.59 (0.50, 0.70)	
Objective Response		
Objective Response Rate (95% CI)	8.9% (6.4, 12.0)	0.9% (0.1, 3.4)

1. Cox regression model with the following covariates: ECOG performance status, number of prior regimens, prior platinum, best response to prior chemotherapy.
2. Two-sided log-rank test stratified by ECOG performance status, number of prior regimens, prior platinum, best response to prior chemotherapy.

Figure 3 depicts the Kaplan-Meier curves for overall survival.

Figure 3: Kaplan-Meier Curves for Overall Survival of Patients by Treatment Group in Study 4



Note: HR is from a univariate Cox regression model.

14.4 **NSCLC – Lack of Efficacy of Erlotinib Administered Concurrently with Chemotherapy**

Results from two, multicenter, placebo-controlled, randomized, trials in over 1000 patients conducted in first-line patients with locally advanced or metastatic NSCLC showed no clinical benefit with the concurrent administration of erlotinib with platinum-based chemotherapy (carboplatin and paclitaxel (erlotinib, N = 526) or gemcitabine and cisplatin (erlotinib, N = 580)).

14.5 Pancreatic Cancer - Erlotinib Administered Concurrently with Gemcitabine

The efficacy and safety of erlotinib in combination with gemcitabine as a first-line treatment was assessed in Study 5, a randomized, double-blind, placebo-controlled trial in 568 patients with locally advanced, unresectable or metastatic pancreatic cancer. Patients were randomized 1:1 to receive erlotinib (100 mg or 150 mg) or placebo once daily on a continuous schedule plus gemcitabine by intravenous infusion (1000 mg/m², Cycle 1 - Days 1, 8, 15, 22, 29, 36 and 43 of an 8-week cycle; Cycle 2 and subsequent cycles - Days 1, 8 and 15 of a 4-week cycle [the approved dose and schedule for pancreatic cancer, see the gemcitabine package insert]). Erlotinib or placebo was taken orally once daily until disease progression or unacceptable toxicity. The primary endpoint was survival. Secondary endpoints included response rate, and progression-free survival (PFS). Duration of response was also examined. The study was conducted in 18 countries. A total of 265 patients were randomized to receive gemcitabine plus erlotinib (261 patients in the 100 mg cohort and 24 patients in the 150 mg cohort) and 284 patients were randomized to receive gemcitabine plus placebo (260 patients in the 100 mg cohort and 24 patients in the 150 mg cohort). Too few patients were treated in the 150 mg cohort to draw conclusions.

In the 100 mg cohort, baseline demographics of the overall study population were as follows: male (52%), white (88%), Asian (7%), black (2%), age < 65 years (53%), ECOG PS 1 (51%), ECOG PS 0 (32%), and ECOG PS 2 (17%). There was a slightly larger proportion of females in the erlotinib arm (51%) compared with the placebo arm (44%). The median time from initial diagnosis to randomization was approximately 1.0 month. The majority of the patients (76%) had distant metastases at baseline and 24% had locally advanced disease.

The results of the study are shown in Table 9.

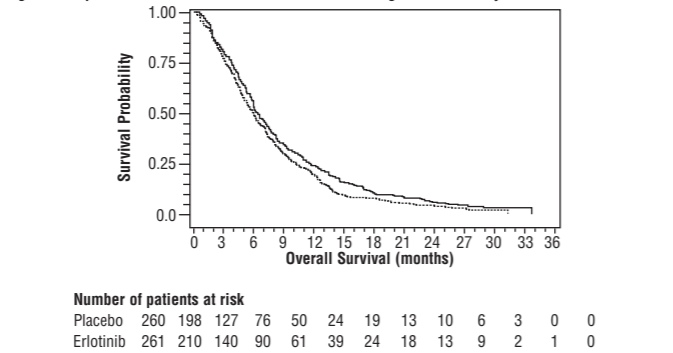
Table 9: Efficacy Results: Erlotinib 100 mg Cohort (Study 5)

Efficacy Parameter	Erlotinib + Gemcitabine (N = 261)	Placebo + Gemcitabine (N = 260)
Overall Survival (OS)		
Number of Deaths	250	254
Median OS in Months (95% CI)	6.5 (6.0, 7.4)	6.0 (5.1, 6.7)
Hazard Ratio (95% CI) ¹	0.81 (0.68, 0.97)	
p-value (stratified log-rank test) ²	0.028	
Progression-Free Survival (PFS)		
Number of Progression or Deaths (%)	225	232
Median PFS in Months (95% CI)	3.8 (3.6, 4.9)	3.6 (3.3, 3.8)
Hazard Ratio (95% CI) ¹	0.76 (0.64, 0.92)	
Objective Response		
Objective Response Rate (95% CI)	8.6% (5.4, 12.9)	7.9% (4.8, 12.0)

1. Cox regression model with the following covariates: ECOG performance status and extent of disease.
2. Two-sided log-rank test stratified by ECOG performance status and extent of disease.

Survival was evaluated in the intent-to-treat population. Figure 4 depicts the Kaplan-Meier curves for overall survival in the 100 mg cohort. The primary survival and PFS analyses were two-sided log-rank tests stratified by ECOG performance status and extent of disease.

Figure 4: Kaplan-Meier Curves for Overall Survival: 100 mg Cohort in Study 5



Note: HR is from Cox regression model with the following covariates: ECOG performance status and extent of disease. The p-value is from two-sided Log-Rank test stratified by ECOG performance status and extent of disease.

16 HOW SUPPLIED/STORAGE AND HANDLING

Erlotinib Tablets are available as follows:

- 100 mg: Round, biconvex, unscored, white film-coated tablets, debossed **TEVA** on one side and **7663** on the other side; supplied in bottles of 30 (NDC 0093-7663-56).
- 150 mg: Round, biconvex, unscored, white film-coated tablets, debossed **TEVA** on one side and **7664** on the other side; supplied in bottles of 30 (NDC 0093-7664-56).

Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature]. Dispense in a tight, light-resistant container as defined in the USP, with a child-resistant closure (as required).

KEEP THIS AND ALL MEDICATIONS OUT OF THE REACH OF CHILDREN.

17 PATIENT COUNSELING INFORMATION

Skin rash, bullous and exfoliative skin disorders

- Advise patients that skin reactions can occur or worsen on sun-exposed areas while taking erlotinib tablets, and proactive intervention may include alcohol-free emollient cream and use of sunscreen or avoidance of sun exposure. Advise patients that hyperpigmentation or dry skin, with or without digital skin fissures, have been reported and in the majority of cases were associated with rash [see *Adverse Reactions (6.1)*].
- Advise patients that erlotinib tablets can increase the risk of bullous and exfoliative skin disorders and to seek immediately medical attention for severe skin reactions [see *Warnings and Precautions (5.5)*].

Diarrhea

Advise patients that diarrhea can usually be managed with loperamide and to contact their healthcare provider for severe or persistent diarrhea [see *Adverse Reactions (6.1)*].

Interstitial lung disease

Advise patients of the risk of severe or fatal ILD, including pneumonitis. Advise patients to contact their healthcare provider immediately to report new or worsening unexplained shortness of breath or coughing [see *Dosage and Administration (2.4)* and *Warnings and Precautions (5.1)*].

Renal failure

Advise patients of the risk of developing renal failure. Inform patients of the need for the healthcare provider to monitor kidney function and electrolytes [see *Warnings and Precautions (5.2)*].

Hepatotoxicity

Advise patients to immediately report signs or symptoms of hepatotoxicity [see *Warnings and Precautions (5.3)*].

Gastrointestinal perforations

Advise patients that erlotinib tablets can increase the risk of gastrointestinal perforation or fistula and to seek immediate medical attention for severe abdominal pain [see *Dosage and Administration (2.4)* and *Warnings and Precautions (5.4)*].

Cerebrovascular accident

Advise patients of the risk of cerebrovascular accident and see immediate medical attention [see *Dosage and Administration (2.4)* and *Warnings and Precautions (5.6)*].

Ocular disorders

Advise patients promptly to contact their healthcare provider if they develop eye signs or symptoms, lacrimation, light sensitivity, blurred vision, eye pain, red eye, or changes in vision [see *Dosage and Administration (2.4)* and *Warnings and Precautions (5.8)*].

Hemorrhage in patients taking warfarin

Advise patients who are receiving warfarin of the need to monitor INR or other coumarin-derivative anticoagulants [see *Warnings and Precautions (5.9)* and *Drug Interactions (7)*].

Hair and nail disorders

Advise patients that hair and nail disorders, including hirsutism and brittle and loose nails, have been reported [see *Adverse Reactions (6.1)*].

Embryo-fetal toxicity

- Advise pregnant women and females of reproductive potential of the potential risk to a fetus. Advise females of reproductive potential to inform their healthcare provider of a known or suspected pregnancy [see *Warnings and Precautions (5.10)*, *Use in Specific Populations (8.1)*].
- Advise females of reproductive potential to use effective contraception during treatment with erlotinib tablets, and for 1 month after the last dose [see *Use in Specific Populations (8.3)*].

Lactation

- Advise women not to breastfeed during treatment with erlotinib tablets and for 2 weeks after the final dose [see *Use in Specific Populations (8.2)*].

Smoking

- Advise patients to contact their health care provider for any changes in smoking status and that the dose of erlotinib tablets may need to be adjusted if they smoke [see *Drug Interactions (7)* and *Clinical Pharmacology (12.3)*].
- Advise patients to stop smoking [see *Clinical Pharmacology (12.3)*].

For further information please call 1-888-838-2872.

Manufactured In Croatia By:
Pliva Hrvatska d.o.o.
Zagreb, Croatia

Manufactured For:
Teva Pharmaceuticals USA, Inc.
North Wales, PA 19454

Rev. A 2/2019

