

Department of Pathology and Laboratory Medicine No.201, Sec. 2, Shipai Rd., Beitou District, Taipei City, Taiwan 11217, R.O.C. Tel: 02-2875-7449

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Sample Information

Patient Name: 邱雨成 Gender: Male ID No.: R103229637 History No.: 15370759

Age: 65

Ordering Doctor: DOC3109L 邱昭華

Ordering REQ.: C21E836 Signing in Date: 2020/08/20

Path No.: S109-99888 **MP No.:** F20059

Assay: Oncomine Focus Assay

Sample Type: FFPE Block No.: \$109-29657A Percentage of tumor cells: 50%

Note:

Sample Cancer Type: Non-Small Cell Lung Cancer

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Report Highlights

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Relevant Non-Small Cell Lung Cancer Findings

Gene	Finding	Gene	Finding
ALK	Not detected	NTRK1	Not detected
BRAF	Not detected	NTRK2	Not detected
EGFR	EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (EGFR exon 19 deletion)	NTRK3	Not detected
ERBB2	Not detected	RET	Not detected
KRAS	Not detected	ROS1	Not detected
MET	Not detected		



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Relevant Biomarkers

Tier	Genomic Alteration	Relevant Therapies (In this cancer type)	Relevant Therapies (In other cancer type)	Clinical Trials
IA	EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGA AGC EGFR exon 19 deletion epidermal growth factor receptor Allele Frequency: 20.08%	afatinib 1,2 dacomitinib 1,2 erlotinib 1,2 gefitinib 1,2 osimertinib 1,2 afatinib + cetuximab bevacizumab + erlotinib 2 erlotinib + ramucirumab 2 atezolizumab + bevacizumab + chemotherapy gefitinib + chemotherapy bevacizumab + gefitinib	None	196

Public data sources included in relevant therapies: FDA1, NCCN, EMA2, ESMO

Tier Reference: Li et al. Standards and Guidelines for the Interpretation and Reporting of Sequence Variants in Cancer: A Joint Consensus Recommendation of the Association for Molecular Pathology, American Society of Clinical Oncology, and College of American Pathologists. J Mol Diagn. 2017 Jan;19(1):4-23.

Variant Details

DNA	Sequence Varia	ants						
Gene	Amino Acid Change	Coding	Variant ID	Locus	Allele Frequency	Transcript	Variant Effect	Coverage
EGFR	p.(E746_A750del)	c.2235_2249delGGA ATTAAGAGAAGC	COSM6223	chr7:55242464	20.08%	NM_005228.4	nonframeshift Deletion	737
ALK	p.(D1529E)	c.4587C>G		chr2:29416366	46.73%	NM_004304.4	missense	1376
ALK	p.(I1461V)	c.4381A>G		chr2:29416572	99.90%	NM_004304.4	missense	2000
ALK	p.(=)	c.3375C>A		chr2:29445458	47.81%	NM_004304.4	synonymous	1989
FGFR3	p.(=)	c.1953G>A		chr4:1807894	99.80%	NM_000142.4	synonymous	1996
PDGFRA	p.(=)	c.1701A>G		chr4:55141055	99.70%	NM_006206.5	synonymous	990
KIT	p.(=)	c.1638A>G		chr4:55593481	42.11%	NM_000222.2	synonymous	1997
FGFR4	p.(P136L)	c.407C>T		chr5:176517797	99.25%	NM_213647.2	missense	1999
FGFR1	p.(=)	c.2178T>G		chr8:38271771	4.93%	NM_001174067.1	synonymous	812
RET	p.(=)	c.2307G>T		chr10:43613843	50.18%	NM_020975.4	synonymous	1997

Biomarker Descriptions

EGFR (epidermal growth factor receptor)

Background: The EGFR gene encodes the epidermal growth factor receptor (EGFR) tyrosine kinase, a member of the human epidermal growth factor receptor (HER) family. Along with EGFR/ERBB1/HER1, ERBB2/HER2, ERBB3/HER3, and ERBB4/HER4 make up the HER protein family¹. EGFR ligand induced dimerization results in kinase activation and leads to stimulation of oncogenic signaling



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Biomarker Descriptions (continued)

pathways including the PI3K/AKT/MTOR and RAS/RAF/MEK/ERK pathways. Activation of these pathways promote cell proliferation, differentiation, and survival^{2,3}.

Alterations and prevalence: Recurrent somatic mutations in the tyrosine kinase domain of EGFR are observed in approximately 10-20% of lung adenocarcinoma and at higher frequencies in never-smoker, female, and in Asian populations with lung cancer^{4,5,6,7}. The most common mutations occur near the ATP-binding pocket of the kinase domain and include short in-frame deletions in exon 19 (EGFR exon 19 deletion) and the L858R amino acid substitution in exon 21⁸. These mutations constitutively activate the EGFR kinase resulting in downstream signaling and represent 80% of the EGFR mutations observed in lung cancer. A second group of recurrent activating mutations that are less common include E709K, G719X, S768I, L861Q, and short in-frame insertions in exon 20^{9,10,11,12}. EGFR activating mutations in lung cancer tend to be mutually exclusive to KRAS activating mutations¹³. Although these variants are common in lung cancer, they are rare in other cancer types. In glioblastoma, recurrent activating EGFR mutations in the extracellular domain include R108K, A289V and G598V^{8,14}. The recurrent focal amplification of the EGFR gene leads to an increase in expression in several cancer types. EGFR is amplified in up to 30% of glioblastoma, 12% of esophageal cancer, 10% of head and neck cancer, 5% of bladder cancer, and 5% of lung squamous cell carcinoma^{5,6,7,14,15}. Deletion of exons 2-7 encoding the extracellular domain of EGFR (EGFRVIII) results in overexpression of a ligand-independent constitutively active protein which is frequently observed in glioblastoma and has been shown to lead to lung cancer development as well as sensitivity to TKIs^{16,17,18}.

Potential relevance: Erlotinib¹⁹ (2004), afatinib²⁰ (2013), gefitinib²¹ (2015), osimertinib²² (2015), and dacomitinib²³ (2018) are small molecule TKIs that are FDA approved for non-small cell lung cancer (NSCLC) patients with sensitizing exon 19 deletions and exon 21 L858R mutations. Acquired secondary mutations often confer resistance to first line TKI therapy with the T790M amino acid substitution accounting for 50-60% of cases⁸. Osimertinib is also indicated for NSCLC patients harboring EGFR T790M mutations whose disease has progressed on or after treatment with a first line TKI. EGFR targeting antibodies including cetuximab²⁴ (2004), panitumumab²⁵ (2006), and necitumumab²⁶ (2016) are also under investigation in combination with EGFR-targeting TKIs for efficacy against EGFR mutations. The bispecific antibody, JNJ-61186372²⁷, targeting EGFR and MET, and the tyrosine kinase inhibitor²⁸ each received a breakthrough designation from the FDA (2020) for NSCLC tumors harboring EGFR exon 20 insertion mutations. The Oncoprex immunogene therapy CNVN-202²⁹ in combination with the EGFR inhibitor, osimertinib, received a fast track designation from the FDA (2020) for NSCLC tumors harboring EGFR mutations. The use of cetuximab in combination with afatinib is currently recommended by the NCCN for patients who have progressed after receiving erlotinib, afatinib, dacomitinib, or gefitinib and chemotherapy³⁰.

Relevant Therapy Summary

In this cancer type O In other cancer

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EGFR p.(E746_A750del) c.223	35_2249delGGAATTA	AGAGAAGC			
Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
afatinib	•				(IV)
gefitinib	•				(IV)
erlotinib	•	•	•		(III)
osimertinib	•	•	•	•	(III)
dacomitinib	•	•	•	•	(II)
bevacizumab + erlotinib	×	•	•	•	(II)

Contraindicated

Both for use and

contraindicated

No evidence

In this cancer type and

other cancer types

^{*} Most advanced phase (IV, III, II/III, II, I/II, I) is shown and multiple clinical trials may be available.



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Relevant Therapy Summary (continued)

In this cancer type O In other cancer

type

In this cancer type and other cancer types

Contraindicated

A Both for use and contraindicated

X No evidence

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
erlotinib + ramucirumab	×	•	•	•	×
afatinib + cetuximab	×	•	×	×	×
atezolizumab + bevacizumab + carboplatin + paclitaxel	×	×	×	•	×
bevacizumab + gefitinib	×	×	×		×
gefitinib + carboplatin + pemetrexed	×	×	×	•	×
anlotinib hydrochloride, toripalimab	×	×	×	×	(IV)
apatinib + EGFR tyrosine kinase inhibitor	×	×	×	×	(IV)
apatinib, gefitinib	×	×	×	×	(IV)
bevacizumab + osimertinib, osimertinib	×	×	×	×	(IV)
EGFR tyrosine kinase inhibitor	×	×	×	×	(IV)
erlotinib, gefitinib, icotinib hydrochloride, chemotherapy	×	×	×	×	(IV)
gefitinib, radiation therapy	×	×	×	×	(IV)
icotinib hydrochloride	×	×	×	×	(IV)
icotinib hydrochloride, chemotherapy	×	×	×	×	(IV)
icotinib hydrochloride, radiation therapy	×	×	×	×	(IV)
ASK120067, gefitinib	×	×	×	×	(III)
bevacizumab, atezolizumab, chemotherapy	×	×	×	×	(III)
bevacizumab, erlotinib	×	×	×	×	(III)
BPI-7711, gefitinib	×	×	×	×	(III)
durvalumab, chemotherapy	×	×	×	×	(III)
erlotinib, chemotherapy	×	×	×	×	(III)
erlotinib, erlotinib + chemotherapy	×	×	×	×	(III)
gefitinib + chemotherapy	×	×	×	×	(III)
gefitinib, anlotinib hydrochloride	×	×	×	×	(III)

^{*} Most advanced phase (IV, III, II/II, II, I/II, I) is shown and multiple clinical trials may be available.



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Relevant Therapy Summary (continued)

In this cancer type In other cancer type

In this cancer type and other cancer types

Contraindicated

A Both for use and contraindicated

× No evidence

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
gefitinib, apatinib	×	×	×	×	(III)
gefitinib, chemotherapy	×	×	×	×	(III)
gefitinib, erlotinib	×	×	×	×	(III)
gefitinib, icotinib hydrochloride, erlotinib	×	×	×	×	(III)
HS-10296, gefitinib	×	×	×	×	(III)
lazertinib, gefitinib	×	×	×	×	(III)
maihuatinib, gefitinib	×	×	×	×	(III)
nivolumab, chemotherapy	×	×	×	×	(III)
osimertinib, chemotherapy	×	×	×	×	(III)
pembrolizumab, chemotherapy	×	×	×	×	(III)
SH-1028, gefitinib	×	×	×	×	(III)
AZD-3759, erlotinib, gefitinib	×	×	×	×	(II/III)
D-0316, icotinib hydrochloride	×	×	×	×	(II/III)
afatinib, bevacizumab	×	×	×	×	(II)
afatinib, chemotherapy, radiation therapy	×	×	×	×	(II)
anlotinib hydrochloride	×	×	×	×	(II)
anlotinib hydrochloride, erlotinib, icotinib hydrochloride, gefitinib	×	×	×	×	(II)
anlotinib hydrochloride, gefitinib	×	×	×	×	(II)
anlotinib hydrochloride, icotinib hydrochloride	×	×	×	×	(II)
atezolizumab, chemotherapy	×	×	×	×	(II)
avitinib, AZD-3759	×	×	×	×	(II)
bevacizumab + gefitinib + chemotherapy	×	×	×	×	(II)
bevacizumab, erlotinib, chemotherapy	×	×	×	×	(II)
bevacizumab, osimertinib	×	×	×	×	(II)
bintrafusp alfa, chemoradiation therapy, durvalumab	×	×	×	×	(II)

^{*} Most advanced phase (IV, III, II/III, II, I/II, I) is shown and multiple clinical trials may be available.



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Relevant Therapy Summary (continued)

In this cancer type O In other cancer

type

In this cancer type and other cancer types

Contraindicated

A Both for use and contraindicated

X No evidence

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
chemotherapy, atezolizumab, bevacizumab	×	×	×	×	(II)
chemotherapy, durvalumab	×	×	×	×	(II)
crizotinib + chemotherapy	×	×	×	×	(II)
durvalumab, tremelimumab, chemotherapy	×	×	×	×	(II)
EGFR tyrosine kinase inhibitor + chemotherapy	×	×	×	×	(II)
EGFR tyrosine kinase inhibitor + chemotherapy, EGFR tyrosine kinase inhibitor	×	×	×	×	(II)
EGFR tyrosine kinase inhibitor, apatinib	×	×	×	×	(II)
EGFR tyrosine kinase inhibitor, radiation therapy	×	×	×	×	(II)
erlotinib + chemotherapy	×	×	×	×	(II)
erlotinib, anlotinib hydrochloride	×	×	×	×	(II)
erlotinib, bevacizumab	×	×	×	×	(II)
erlotinib, gefitinib	×	×	×	×	(II)
erlotinib, gefitinib, icotinib hydrochloride, erlotinib + chemotherapy, gefitinib + chemotherapy, icotinib hydrochloride + chemotherapy	×	×	×	×	(II)
erlotinib, radiation therapy	×	×	×	×	(II)
famitinib, HS-10296	×	×	×	×	(II)
gefitinib, hormone therapy	×	×	×	×	(II)
gefitinib, surgical intervention	×	×	×	×	(II)
gefitinib, thalidomide	×	×	×	×	(II)
nazartinib, gefitinib	×	×	×	×	(II)
nivolumab, ipilimumab	×	×	×	×	(II)
osimertinib, afatinib	×	×	×	×	(II)
osimertinib, bevacizumab	×	×	×	×	(II)
osimertinib, gefitinib + osimertinib	×	×	×	×	(II)

^{*} Most advanced phase (IV, III, II/II, II, I/II, I) is shown and multiple clinical trials may be available.



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Relevant Therapy Summary (continued)

In this cancer type O In other cancer type

In this cancer type and O Contraindicated other cancer types

A Both for use and contraindicated

X No evidence

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
osimertinib, radiation therapy	×	×	×	×	(II)
osimertinib, ramucirumab	×	×	×	×	(II)
osimertinib, savolitinib	×	×	×	×	(II)
osimertinib, selumetinib	×	×	×	×	(II)
poziotinib	×	×	×	×	(II)
ramucirumab, chemotherapy, cytokine	×	×	×	×	(II)
ramucirumab, osimertinib	×	×	×	×	(II)
SH-1028	×	×	×	×	(II)
tyrosine kinase inhibitors, radiation therapy	×	×	×	×	(II)
zoledronic acid, gefitinib	×	×	×	×	(II)
anlotinib hydrochloride, chemotherapy	×	×	×	×	(/)
BDTX-189	×	×	×	×	(/)
bevacizumab + erlotinib + chemotherapy	×	×	×	×	(/)
CBT-502, anlotinib hydrochloride	×	×	×	×	(/)
DZD-9008	×	×	×	×	(/)
EMB01	×	×	×	×	(/)
gefitinib + osimertinib	×	×	×	×	(1/11)
icotinib hydrochloride + chemotherapy	×	×	×	×	(1/11)
KP-673	×	×	×	×	(1/11)
ningetinib, gefitinib	×	×	×	×	(1/11)
telaglenastat, osimertinib	×	×	×	×	(I/II)
U3-1402	×	×	×	×	(/)
AB-928, zimberelimab, chemotherapy	×	×	×	×	(I)
afatinib, chemotherapy	×	×	×	×	(I)
afatinib, immunostimulant	×	×	×	×	(I)

^{*} Most advanced phase (IV, III, II/III, II, I/II, I) is shown and multiple clinical trials may be available.



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Relevant Therapy Summary (continued)

In this cancer type O In other cancer type

In this cancer type and other cancer types

Contraindicated

A Both for use and contraindicated

X No evidence

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
afatinib, osimertinib	×	×	×	×	(I)
alisertib, osimertinib	×	×	×	×	(I)
CK-101	×	×	×	×	(I)
dacomitinib, osimertinib	×	×	×	×	(I)
DS-1205c, osimertinib	×	×	×	×	(I)
EGFR tyrosine kinase inhibitor, anlotinib hydrochloride	×	×	×	×	(I)
genolimzumab, fruquintinib	×	×	×	×	(I)
JNJ-61186372, lazertinib	×	×	×	×	(I)
lazertinib, JNJ-61186372	×	×	×	×	(I)
nazartinib + trametinib, nazartinib + ribociclib, LXH254 + nazartinib, capmatinib + nazartinib, gefitinib + nazartinib	×	×	×	×	(1)
neratinib, palbociclib, everolimus, trametinib	×	×	×	×	(I)
niraparib, osimertinib	×	×	×	×	(I)
osimertinib, necitumumab	×	×	×	×	(I)
pirotinib	×	×	×	×	(l)
ramucirumab, erlotinib, osimertinib	×	×	×	×	(I)
telisotuzumab vedotin, osimertinib	×	×	×	×	(I)
TNO-155	×	×	×	×	(I)
TP-0903	×	×	×	×	(I)
TQB 3804	×	×	×	×	(I)
tyrosine kinase inhibitors, tyrosine kinase inhibitors + chemotherapy	×	×	×	×	● (I)
WSD-0922	×	×	×	×	(I)

^{*} Most advanced phase (IV, III, II/III, II, I/II, I) is shown and multiple clinical trials may be available.



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Relevant Therapy Details

Current FDA Information

In this cancer type In other cancer ty	e In this cancer type and other cancer types	O Contraindicated	Not recommended	Resistance
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FDA information is current as of 2020-05-26. For the most up-to-date information, search www.fda.gov.

EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC

afatinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2019-10-11 Variant class: EGFR exon 19 deletion

Indications and usage:

GILOTRIF® is a kinase inhibitor indicated for:

 First-line treatment of patients with metastatic non-small cell lung cancer (NSCLC) whose tumors have non-resistant epidermal growth factor receptor (EGFR) mutations as detected by an FDA-approved test.

Limitation of Use: Safety and efficacy of GILOTRIF® were not established in patients whose tumors have resistant EGFR mutations

■ Treatment of patients with metastatic, squamous NSCLC progressing after platinum-based chemotherapy

Reference:

https://www.accessdata.fda.gov/drugsatfda_docs/label/2019/201292s015lbl.pdf

dacomitinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2018-09-27 Variant class: EGFR exon 19 deletion

Indications and usage:

VIZIMPRO® is a kinase inhibitor indicated for the first-line treatment of patients with metastatic non-small cell lung cancer (NSCLC) with epidermal growth factor receptor (EGFR) exon 19 deletion or exon 21 L858R substitution mutations as detected by an FDA-approved test.

Reference:

https://www.accessdata.fda.gov/drugsatfda_docs/label/2018/211288s000lbl.pdf



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

erlotinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2016-10-18 Variant class: EGFR exon 19 deletion

Indications and usage:

TARCEVA® is 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.
- First-line treatment of patients with locally advanced, unresectable or metastatic pancreatic cancer, in combination with gemcitabine.

Limitations of Use:

- Safety and efficacy of TARCEVA® have not been established in patients with NSCLC whose tumors have other EGFR
 mutations.
- TARCEVA® is not recommended for use in combination with platinum-based chemotherapy.

Reference:

https://www.accessdata.fda.gov/drugsatfda_docs/label/2016/021743s025lbl.pdf

gefitinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2018-08-22 Variant class: EGFR exon 19 deletion

Indications and usage:

IRESSA® is a tyrosine kinase inhibitor indicated for the first-line 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.

Limitation of Use: Safety and efficacy of IRESSA® have not been established in patients whose tumors have EGFR mutations other than exon 19 deletions or exon 21 (L858R) substitution mutations.

Reference:

https://www.accessdata.fda.gov/drugsatfda_docs/label/2018/206995s003lbl.pdf



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

osimertinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2019-12-19 Variant class: EGFR exon 19 deletion

Indications and usage:

TAGRISSO® is a kinase inhibitor indicated for

- the first-line treatment of patients with metastatic NSCLC whose tumors have epidermal growth factor receptor (EGFR) exon 19 deletions or exon 21 L858R mutations, as detected by an FDA-approved test.
- the treatment of patients with metastatic EGFR T790M mutation-positive NSCLC, as detected by an FDA-approved test, whose disease has progressed on or after EGFR TKI therapy.

Reference:

https://www.accessdata.fda.gov/drugsatfda_docs/label/2019/208065s013lbl.pdf



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Current NCCN Information

In this cancer type \(\Omega\) In other cancer type

In this cancer type and other cancer types

Contraindicated

Not recommended Resistance

NCCN information is current as of 2020-05-01. For the most up-to-date information, search www.nccn.org. For NCCN International Adaptations & Translations, search www.nccn.org/global/international_adaptations.aspx.

EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC

afatinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 1

Population segment (Line of therapy):

Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease; Sensitizing EGFR mutation discovered prior to first-line systemic therapy (First-line therapy) (Other Recommended)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

dacomitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 1

Population segment (Line of therapy):

Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease; Sensitizing EGFR mutation discovered prior to first-line systemic therapy (First-line therapy) (Other Recommended)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 1

Population segment (Line of therapy):

Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease; Sensitizing EGFR mutation discovered prior to first-line systemic therapy (First-line therapy) (Other Recommended)



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

gefitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 1

Population segment (Line of therapy):

Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease;
 Sensitizing EGFR mutation discovered prior to first-line systemic therapy (First-line therapy) (Other Recommended)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

osimertinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 1

Population segment (Line of therapy):

Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease;
 EGFR sensitizing mutation discovered prior to first-line systemic therapy (First-line therapy) (Preferred)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

afatinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 2A

Population segment (Line of therapy):

- Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease; Sensitizing EGFR mutation discovered during first-line systemic therapy; Interrupt or complete planned systemic therapy, including maintenance therapy (First-line therapy)
- Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease;
 Progression on erlotinib +/- (ramucirumab or bevacizumab), afatinib, gefitinib, or dacomitinib; Asymptomatic or symptomatic with brain metastases or isolated lesions (Subsequent therapy)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

afatinib + cetuximab

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 2A

Population segment (Line of therapy):

 Non-Small Cell Lung Cancer; Progression on erlotinib, afatinib, dacomitinib, gefitinib, chemotherapy, or osimertinib; Systemic multiple lesions (Subsequent therapy)



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

bevacizumab + erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 2A

Population segment (Line of therapy):

Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease; Progression on erlotinib +/- (ramucirumab or bevacizumab), afatinib, gefitinib, or dacomitinib; Asymptomatic or symptomatic with brain metastases or isolated lesions (Subsequent therapy)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

dacomitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 2A

Population segment (Line of therapy):

- Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease;
 Sensitizing EGFR mutation discovered during first-line systemic therapy; Interrupt or complete planned systemic therapy,
 including maintenance therapy (First-line therapy)
- Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease;
 Progression on erlotinib +/- (ramucirumab or bevacizumab), afatinib, gefitinib, or dacomitinib; Asymptomatic or symptomatic with brain metastases or isolated lesions (Subsequent therapy)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 2A

Population segment (Line of therapy):

- Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease;
 Sensitizing EGFR mutation discovered during first-line systemic therapy; Interrupt or complete planned systemic therapy, including maintenance therapy (First-line therapy)
- Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease;
 Progression on erlotinib +/- (ramucirumab or bevacizumab), afatinib, gefitinib, or dacomitinib; Asymptomatic or symptomatic with brain metastases or isolated lesions (Subsequent therapy)



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

erlotinib + ramucirumab

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 2A

Population segment (Line of therapy):

- Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Sensitizing EGFR mutation discovered prior to or during first-line systemic therapy (First-line therapy) (Other Recommended)
- Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Progression on erlotinib +/(ramucirumab or bevacizumab), afatinib, gefitinib, or dacomitinib; Asymptomatic or symptomatic with brain metastases or
 isolated lesions (Subsequent therapy)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

gefitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 2A

Population segment (Line of therapy):

- Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease;
 Sensitizing EGFR mutation discovered during first-line systemic therapy; Interrupt or complete planned systemic therapy, including maintenance therapy (First-line therapy)
- Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease;
 Progression on erlotinib +/- (ramucirumab or bevacizumab), afatinib, gefitinib, or dacomitinib; Asymptomatic or symptomatic with brain metastases or isolated lesions (Subsequent therapy)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

osimertinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 2A

Population segment (Line of therapy):

Non-Small Cell Lung Cancer; Leptomeningeal and spine metastases (Not specified)

Reference: NCCN Guidelines® - NCCN-Central Nervous System Cancers [Version 2.2020]



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

osimertinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 2A

Population segment (Line of therapy):

- Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease; Sensitizing EGFR mutation discovered during first-line systemic therapy; Interrupt or complete planned systemic therapy, including maintenance therapy (First-line therapy) (Preferred)
- Progression on osimertinib; Advanced or metastatic disease; Asymptomatic or symptomatic with brain or isolated lesions (Subsequent therapy)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

bevacizumab + erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 2B

Population segment (Line of therapy):

 Adenocarcinoma, Large Cell, Non-Small Cell Lung Cancer (NOS), Squamous Cell Carcinoma; Advanced or metastatic disease; Sensitizing EGFR mutation discovered prior to or during first-line systemic therapy (First-line therapy) (Useful in Certain Circumstances)

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 19 deletion

NCCN Recommendation category: 2B

Population segment (Line of therapy):

Non-Small Cell Lung Cancer; Leptomeningeal and spine metastases; Pulsatile erlotinib (Not specified)

Reference: NCCN Guidelines® - NCCN-Central Nervous System Cancers [Version 2.2020]

erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

NCCN Recommendation category: 2A

Population segment (Line of therapy):

Non-Small Cell Lung Cancer; Brain metastases; Use agents active against primary tumor; Pulsatile erlotinib (Not specified)

Reference: NCCN Guidelines® - NCCN-Central Nervous System Cancers [Version 2.2020]



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

afatinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

NCCN Recommendation category: 2B

Population segment (Line of therapy):

Non-Small Cell Lung Cancer; Brain metastases; Use agents active against primary tumor (Not specified)

Reference: NCCN Guidelines® - NCCN-Central Nervous System Cancers [Version 2.2020]

gefitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

NCCN Recommendation category: 2B

Population segment (Line of therapy):

Non-Small Cell Lung Cancer; Brain metastases; Use agents active against primary tumor (Not specified)

Reference: NCCN Guidelines® - NCCN-Central Nervous System Cancers [Version 2.2020]

alectinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

Summary:

NCCN Guidelines® include the following supporting statement(s):

"Thus, crizotinib, ceritinib, alectinib, brigatinib, or lorlatinib are not recommended as subsequent therapy for patients with sensitizing EGFR mutations who relapse on EGFR TKI therapy."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

brigatinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

Summary:

NCCN Guidelines® include the following supporting statement(s):

■ "Thus, crizotinib, ceritinib, alectinib, brigatinib, or lorlatinib are not recommended as subsequent therapy for patients with sensitizing EGFR mutations who relapse on EGFR TKI therapy."



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

ceritinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

Summary:

NCCN Guidelines® include the following supporting statement(s):

"Thus, crizotinib, ceritinib, alectinib, brigatinib, or lorlatinib are not recommended as subsequent therapy for patients with sensitizing EGFR mutations who relapse on EGFR TKI therapy."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

crizotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

Summary:

NCCN Guidelines® include the following supporting statement(s):

"Thus, crizotinib, ceritinib, alectinib, brigatinib, or lorlatinib are not recommended as subsequent therapy for patients with sensitizing EGFR mutations who relapse on EGFR TKI therapy."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

lorlatinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

Summary:

NCCN Guidelines® include the following supporting statement(s):

"Thus, crizotinib, ceritinib, alectinib, brigatinib, or lorlatinib are not recommended as subsequent therapy for patients with sensitizing EGFR mutations who relapse on EGFR TKI therapy."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

atezolizumab

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR mutation

Summary:

NCCN Guidelines® include the following supporting statement(s):

■ "Therefore, subsequent therapy with pembrolizumab, nivolumab, or atezolizumab is not recommended in patients with EGFR mutations or ALK fusions."



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

nivolumab

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR mutation

Summary:

NCCN Guidelines® include the following supporting statement(s):

" Therefore, subsequent therapy with pembrolizumab, nivolumab, or atezolizumab is not recommended in patients with EGFR mutations or ALK fusions."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

pembrolizumab

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR mutation

Summary:

NCCN Guidelines® include the following supporting statement(s):

"Therefore, subsequent therapy with pembrolizumab, nivolumab, or atezolizumab is not recommended in patients with EGFR mutations or ALK fusions."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2020]

pembrolizumab

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR mutation

Other criteria: CD274 overexpression

Summary:

NCCN Guidelines® include the following supporting statement(s):

"A small study suggests that single-agent pembrolizumab is not effective as first-line therapy in patients with metastatic NSCLC and EGFR mutations, even those with PD-L1 levels more than 50%."



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Current EMA Information

In this cancer type	C	In other cancer type	0	In this cancer type and	0	Contraindicated	Not recommended	U	Resistance
				other cancer types					

EMA information is current as of 2020-05-26. For the most up-to-date information, search www.ema.europa.eu/ema.

EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC

afatinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2020-02-13 Variant class: EGFR exon 19 deletion

Reference

https://www.ema.europa.eu/en/documents/product-information/giotrif-epar-product-information_en.pdf

bevacizumab + erlotinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2020-03-11 Variant class: EGFR exon 19 deletion

Reference:

https://www.ema.europa.eu/en/documents/product-information/avastin-epar-product-information_en.pdf

dacomitinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2019-06-05 Variant class: EGFR exon 19 deletion

Reference:

https://www.ema.europa.eu/en/documents/product-information/vizimpro-epar-product-information_en.pdf

erlotinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2019-04-24 Variant class: EGFR exon 19 deletion

Reference:

https://www.ema.europa.eu/documents/product-information/tarceva-epar-product-information_en.pdf

erlotinib + ramucirumab

Cancer type: Non-Small Cell Lung Cancer Label as of: 2020-02-25 Variant class: EGFR exon 19 deletion

Reference:

 $https://www.ema.europa.eu/en/documents/product-information/cyramza-epar-product-information_en.pdf$



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

gefitinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2019-05-28 Variant class: EGFR exon 19 deletion

Reference:

https://www.ema.europa.eu/en/documents/product-information/iressa-epar-product-information_en.pdf

osimertinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2020-02-25 Variant class: EGFR exon 19 deletion

Reference:

 $https://www.ema.europa.eu/en/documents/product-information/tagrisso-epar-product-information_en.pdf\\$



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Current ESMO Information

In this cancer type O In other cancer type

In this cancer type and other cancer types

Contraindicated

Not recommended Resistance

ESMO information is current as of 2020-05-01. For the most up-to-date information, search www.esmo.org.

EGFR p.(E746 A750del) c.2235 2249delGGAATTAAGAGAAGC

atezolizumab + bevacizumab + carboplatin + paclitaxel

Variant class: EGFR exon 19 deletion Cancer type: Non-Small Cell Lung Cancer

ESMO Level of Evidence/Grade of Recommendation: III / A

Population segment (Line of therapy):

- Metastatic Non-Squamous; Magnitude of Clinical Benefit Scale Score version 1.1 score: 3 (First-line therapy)
- Metastatic; PS 0-1; Without contraindications to immunotherapy after targeted therapies have been exploited (Second-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

afatinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

ESMO Level of Evidence/Grade of Recommendation: I / A

Population segment (Line of therapy):

Advanced stage (First-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

ESMO Level of Evidence/Grade of Recommendation: I / A

Population segment (Line of therapy):

Advanced stage (First-line therapy)



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

gefitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

ESMO Level of Evidence/Grade of Recommendation: I / A

Population segment (Line of therapy):

Advanced stage (First-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

osimertinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

ESMO Level of Evidence/Grade of Recommendation: I / A

Population segment (Line of therapy):

Advanced stage; ESMO-Magnitude of Clinical Benefit Scale Version 1.1 Score: 4 (First-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

dacomitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

ESMO Level of Evidence/Grade of Recommendation: I / B

Population segment (Line of therapy):

Stage IV; Magnitude of Clinical Benefit Scale Version v1.1 Score: 3 (First-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFRi sensitizing mutation

ESMO Level of Evidence/Grade of Recommendation: III / B

Population segment (Line of therapy):

Non-Squamous (Maintenance therapy)



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

afatinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR activating mutation

ESMO Level of Evidence/Grade of Recommendation: I / A

Population segment (Line of therapy):

Stage IV; PS 0-2 (First-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR activating mutation

ESMO Level of Evidence/Grade of Recommendation: I / A

Population segment (Line of therapy):

Stage IV; PS 0-2 (First-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

gefitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR activating mutation

ESMO Level of Evidence/Grade of Recommendation: I / A

Population segment (Line of therapy):

Stage IV; PS 0-2 (First-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

gefitinib + carboplatin + pemetrexed

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR activating mutation

ESMO Level of Evidence/Grade of Recommendation: I / B

Population segment (Line of therapy):

Advanced stage (First-line therapy)



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

bevacizumab + erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR activating mutation

ESMO Level of Evidence/Grade of Recommendation: II / B

Population segment (Line of therapy):

Stage IV; ESMO-Magnitude of Clinical Benefit Scale Version 1.1 Score: 3 (First-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

bevacizumab + gefitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR activating mutation

ESMO Level of Evidence/Grade of Recommendation: II / B

Population segment (Line of therapy):

Stage IV; ESMO-Magnitude of Clinical Benefit Scale Version 1.1 Score: 3 (First-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

erlotinib + ramucirumab

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR activating mutation

ESMO Level of Evidence/Grade of Recommendation: II / B

Population segment (Line of therapy):

■ Stage IV (First-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

afatinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR activating mutation

ESMO Level of Evidence/Grade of Recommendation: III / A

Population segment (Line of therapy):

Stage IV; PS 3-4 (First-line therapy)



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EGFR p.(E746_A750del) c.2235_2249delGGAATTAAGAGAAGC (continued)

dacomitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR activating mutation

ESMO Level of Evidence/Grade of Recommendation: III / A

Population segment (Line of therapy):

■ Stage IV; PS 3-4 (First-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR activating mutation

ESMO Level of Evidence/Grade of Recommendation: III / A

Population segment (Line of therapy):

Stage IV; PS 3-4 (First-line therapy)

Reference: ESMO Clinical Practice Guidelines - ESMO-Metastatic Non-Small-Cell Lung Cancer [Ann Oncol (2018) 29 (suppl 4): iv192-iv237; https://www.esmo.org/Guidelines/Lung-and-Chest-Tumours/Metastatic-Non-Small-Cell-Lung-Cancer]

gefitinib

Pathologist:

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR activating mutation

ESMO Level of Evidence/Grade of Recommendation: III / A

Population segment (Line of therapy):

Stage IV; PS 3-4 (First-line therapy)

Signatures		
Testing Personnel:		
Laboratory Supervisor:		

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