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Sample Information

Patient Name: 社秋紅 Gender: Female ID No.: D201171246 History No.: 44312916

Age: 69

Ordering Doctor: DOC3109L 邱昭華

Ordering REQ.: C21B9AC Signing in Date: 2020/08/05

Path No.: S109-99796 **MP No.:** F20051

Assay: Oncomine Focus Assay

Sample Type: FFPE Block No.: \$109-19470B Percentage of tumor cells: 70%

Note:

Sample Cancer Type: Non-Small Cell Lung Cancer

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Report Highlights

3 Relevant Biomarkers 10 Therapies Available 137 Clinical Trials

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.(G719S) c.2155G>A, EGFR p.(L747S) c.2240T>C	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.(G719S) c.2155G>A epidermal growth factor receptor Allele Frequency: 51.18%	afatinib 1,2 dacomitinib erlotinib gefitinib 2 osimertinib afatinib + cetuximab bevacizumab + erlotinib erlotinib + ramucirumab gefitinib + chemotherapy bevacizumab + gefitinib	None	123
IA	EGFR p.(L747S) c.2240T>C epidermal growth factor receptor Allele Frequency: 49.23%	None	None	65
IIC	CDK4 amplification cyclin dependent kinase 4	None	None	7

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.

Variants (Exclude variant in Taiwan BioBank with >1% allele frequency)

DNA Sequence Variants Allele Gene Amino Acid Change Coding Variant ID Variant Effect Coverage Locus Frequency Transcript **EGFR** p.(G719S) c.2155G>A COSM6252 chr7:55241707 51.18% NM_005228.4 1993 missense **EGFR** p.(L747S) c.2240T>C chr7:55242470 49.23% NM_005228.4 missense 1946 FGFR1 p.(G728C) c.2182G>T chr8:38271767 17.17% NM_001174067.1 missense 1666

Copy Number Variations		
Gene	Locus	Copy Number
CDK4	chr12:58142052	22.37

Biomarker Descriptions

CDK4 (cyclin dependent kinase 4)

<u>Background</u>: The CDK4 gene encodes the cyclin-dependent kinase-4 protein, a homologue of CDK6. Both proteins are serine/threonine protein kinases that are involved in the regulation of the G1/S phase transition of the mitotic cell cycle^{1,2}. CDK4 kinase is activated by complex formation with D-type cyclins (e.g., CCND1, CCND2, or CCND3), which leads to the phosphorylation of retinoblastoma protein (RB), followed by E2F activation, DNA replication, and cell-cycle progression³. Germline mutations in CDK4 are associated with familial melanoma^{4,5,6}.



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Biomarker Descriptions (continued)

Alterations and prevalence: Recurrent somatic mutations of CDK4 codon K22 and R24 are observed in melanoma (1-2%) and lung cancer (approximately 0.1%). Codons K22 and R24 are necessary for binding and inhibition by p16/CDKN2A^{7,8,9}. CDK4 is recurrently amplified in several cancer types, most notably in sarcomas (15-20%), glioma (10-15%), adrenocortical carcinoma (5%), lung adenocarcinoma (5%), and melanoma (3%)^{10,11,12,13}.

Potential relevance: Currently, no therapies are approved for CDK4 aberrations. Small molecule inhibitors targeting CDK4/6 including palbociclib (2015), abemaciclib (2017), and ribociclib (2017), are FDA approved in combination with an aromatase inhibitor or fulvestrant for the treatment of hormone receptor-positive, HER2-negative advanced or metastatic breast cancer.

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 family¹⁴. EGFR ligand induced dimerization results in kinase activation and leads to stimulation of oncogenic signaling pathways including the PI3K/AKT/MTOR and RAS/RAF/MEK/ERK pathways. Activation of these pathways promote cell proliferation, differentiation, and survival^{15,16}.

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^{10,11,12,17}. 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 21¹⁸. 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^{19,20,21,22}. EGFR activating mutations in lung cancer tend to be mutually exclusive to KRAS activating mutations²³. 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^{13,18}. 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^{10,11,12,13,24}. 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^{25,26,27}.

Potential relevance: Erlotinib²⁸ (2004), afatinib²⁹ (2013), gefitinib³⁰ (2015), osimertinib³¹ (2015), and dacomitinib³² (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 cases¹⁸. 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 cetuximab³³ (2004), panitumumab³⁴ (2006), and necitumumab³⁵ (2016) are also under investigation in combination with EGFR-targeting TKIs for efficacy against EGFR mutations. The bispecific antibody, JNJ-61186372³⁶, targeting EGFR and MET, and the tyrosine kinase inhibitor³⁷ each received a breakthrough designation from the FDA (2020) for NSCLC tumors harboring EGFR exon 20 insertion mutations. The Oncoprex immunogene therapy CNVN-202³⁸ 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 chemotherapy³⁹.



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Relevant Therapy Summary

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
afatinib					● (IV)
gefitinib	×				(III)
erlotinib	×		×		(III)
osimertinib	×		×		(II)
dacomitinib	×		×		(l)
bevacizumab + erlotinib	×	•	×	•	×
erlotinib + ramucirumab	×	•	×	•	×
afatinib + cetuximab	×	•	×	×	×
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, radiation therapy	×	×	×	×	(IV)
bevacizumab, atezolizumab, chemotherapy	×	×	×	×	(III)
bevacizumab, erlotinib	×	×	×	×	(III)
BPI-7711, gefitinib	×	×	×	×	(III)
durvalumab, chemotherapy	×	×	×	×	(III)
erlotinib, erlotinib + chemotherapy	×	×	×	×	(III)
gefitinib, apatinib	×	×	×	×	(III)

^{*} 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

EGFR p.(G719S) c.2155G>A (continued)

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
gefitinib, erlotinib	×	×	×	×	(III)
HS-10296, gefitinib	×	×	×	×	(III)
icotinib hydrochloride, chemotherapy	×	×	×	×	(III)
nivolumab, chemotherapy	×	×	×	×	(III)
AZD-3759, erlotinib, gefitinib	×	×	×	×	(/)
afatinib, bevacizumab	×	×	×	×	(II)
afatinib, chemotherapy, radiation therapy	×	×	×	×	(II)
anlotinib hydrochloride	×	×	×	×	(II)
anlotinib hydrochloride, gefitinib	×	×	×	×	(II)
avitinib, AZD-3759	×	×	×	×	(II)
bevacizumab + gefitinib + chemotherapy	×	×	×	×	(II)
bevacizumab, erlotinib, chemotherapy	×	×	×	×	(II)
bevacizumab, osimertinib	×	×	×	×	(II)
bintrafusp alfa, chemoradiation therapy, durvalumab	×	×	×	×	(II)
chemotherapy, durvalumab	×	×	×	×	(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, chemotherapy	×	×	×	×	(II)
erlotinib, chemotherapy, sintilimab, anlotinib hydrochloride	×	×	×	×	(II)
erlotinib, gefitinib	×	×	×	×	(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 other cancer types

Contraindicated

A Both for use and contraindicated

X No evidence

EGFR p.(G719S) c.2155G>A (continued)

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
erlotinib, gefitinib, icotinib hydrochloride, erlotinib + chemotherapy, gefitinib + chemotherapy, icotinib hydrochloride + chemotherapy	×	×	×	×	(II)
erlotinib, radiation therapy	×	×	×	×	(II)
famitinib, HS-10296	×	×	×	×	(II)
gefitinib + chemotherapy	×	×	×	×	(II)
gefitinib, chemotherapy	×	×	×	×	(II)
gefitinib, hormone therapy	×	×	×	×	(II)
icotinib hydrochloride	×	×	×	×	(II)
maihuatinib	×	×	×	×	(II)
nazartinib, gefitinib	×	×	×	×	(II)
neratinib	×	×	×	×	(II)
nivolumab, ipilimumab	×	×	×	×	(II)
osimertinib, bevacizumab	×	×	×	×	(II)
osimertinib, radiation therapy	×	×	×	×	(II)
osimertinib, savolitinib	×	×	×	×	(II)
pembrolizumab, chemotherapy	×	×	×	×	(II)
poziotinib	×	×	×	×	(II)
ramucirumab, chemotherapy, cytokine	×	×	×	×	(II)
SH-1028	×	×	×	×	(II)
sutetinib	×	×	×	×	(II)
targeted therapy, chemotherapy	×	×	×	×	● (II)
tyrosine kinase inhibitors, radiation therapy	×	×	×	×	(II)
zoledronic acid, gefitinib	×	×	×	×	(II)
anlotinib hydrochloride, chemotherapy	×	×	×	×	(I/II)
bevacizumab + erlotinib + chemotherapy	×	×	×	×	(I/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

EGFR p.(G719S) c.2155G>A (continued)

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
CBT-502, anlotinib hydrochloride	×	×	×	×	(/)
DZD-9008	×	×	×	×	(/)
EMB01	×	×	×	×	(/)
icotinib hydrochloride + chemotherapy	×	×	×	×	(1/11)
KP-673	×	×	×	×	(/)
ningetinib, gefitinib	×	×	×	×	(I/II)
U3-1402	×	×	×	×	(/)
AB-928, zimberelimab, chemotherapy	×	×	×	×	(I)
afatinib, chemotherapy	×	×	×	×	(I)
afatinib, immunostimulant	×	×	×	×	(I)
afatinib, osimertinib	×	×	×	×	(I)
alisertib, osimertinib	×	×	×	×	(I)
dacomitinib, osimertinib	×	×	×	×	(I)
DS-1205c, osimertinib	×	×	×	×	(I)
genolimzumab, fruquintinib	×	×	×	×	(I)
JNJ-61186372	×	×	×	×	(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)
telisotuzumab vedotin, osimertinib	×	×	×	×	(l)
TNO-155	×	×	×	×	(I)

^{*} 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 other cancer types

Contraindicated

A Both for use and contraindicated

X No evidence

EGFR p.(G719S) c.2155G>A (continued)

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
TP-0903	×	×	×	×	(l)
TQB 3804	×	×	×	×	(l)
tyrosine kinase inhibitors, tyrosine kinase inhibitors + chemotherapy	×	×	×	×	(1)
WSD-0922	×	×	×	×	(I)

EGFR p.(L747S) c.2240T>C

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
apatinib + EGFR tyrosine kinase inhibitor	×	×	×	×	(IV)
apatinib, erlotinib, gefitinib, icotinib hydrochloride	×	×	×	×	(IV)
apatinib, gefitinib	×	×	×	×	(IV)
EGFR tyrosine kinase inhibitor	×	×	×	×	(IV)
gefitinib, radiation therapy	×	×	×	×	(IV)
icotinib hydrochloride, radiation therapy	×	×	×	×	(IV)
bevacizumab, atezolizumab, chemotherapy	×	×	×	×	(III)
durvalumab, chemotherapy	×	×	×	×	(III)
gefitinib	×	×	×	×	(III)
icotinib hydrochloride, chemotherapy	×	×	×	×	(III)
nivolumab, chemotherapy	×	×	×	×	(III)
sintilimab, bevacizumab (Innovent Biologics), chemotherapy	×	×	×	×	(III)
toripalimab, chemotherapy	×	×	×	×	(III)
afatinib	×	×	×	×	(II)
afatinib, bevacizumab	×	×	×	×	(II)
afatinib, chemotherapy, radiation therapy	×	×	×	×	(II)
anlotinib hydrochloride	×	×	×	×	(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

EGFR p.(L747S) c.2240T>C (continued)

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
anlotinib hydrochloride + sintilimab	×	×	×	×	(II)
anlotinib hydrochloride, gefitinib	×	×	×	×	(II)
apatinib, chemotherapy	×	×	×	×	(II)
bevacizumab, osimertinib	×	×	×	×	(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	×	×	×	×	(II)
erlotinib + chemotherapy	×	×	×	×	(II)
erlotinib, chemotherapy, sintilimab, anlotinib hydrochloride	×	×	×	×	(II)
erlotinib, radiation therapy	×	×	×	×	(II)
famitinib, HS-10296	×	×	×	×	(II)
icotinib hydrochloride	×	×	×	×	(II)
KN046	×	×	×	×	(II)
nivolumab, ipilimumab	×	×	×	×	(II)
osimertinib	×	×	×	×	(II)
pirotinib	×	×	×	×	(II)
poziotinib	×	×	×	×	(II)
ramucirumab, chemotherapy, cytokine	×	×	×	×	(II)
targeted therapy, chemotherapy	×	×	×	×	(II)
tyrosine kinase inhibitors, radiation therapy	×	×	×	×	(II)
anlotinib hydrochloride, chemotherapy	×	×	×	×	(I/II)
bevacizumab + erlotinib + chemotherapy	×	×	×	×	(I/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

EGFR p.(L747S) c.2240T>C (continued)

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
DZD-9008	×	×	×	×	(/)
EMB01	×	×	×	×	(/)
icotinib hydrochloride + chemotherapy	×	×	×	×	(/)
ningetinib, gefitinib	×	×	×	×	(/)
APG-1252, osimertinib	×	×	×	×	(I)
JNJ-61186372	×	×	×	×	(I)
lazertinib, JNJ-61186372	×	×	×	×	(I)
neratinib, palbociclib, everolimus, trametinib	×	×	×	×	(I)
TP-0903	×	×	×	×	(I)
TQB 3804	×	×	×	×	(I)
tyrosine kinase inhibitors, tyrosine kinase inhibitors + chemotherapy	×	×	×	×	(I)

CDK4 amplification

Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*
abemaciclib	×	×	×	×	(II)
palbociclib	×	×	×	×	(II)
palbociclib, abemaciclib	×	×	×	×	(II)
siremadlin, ribociclib	×	×	×	×	(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 Details

Current FDA Information

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

FDA information is current as of 2020-05-26. For the most up-to-date information, search www.fda.gov.

EGFR p.(G719S) c.2155G>A

afatinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2019-10-11 Variant class: EGFR G719 mutation

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



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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.(G719S) c.2155G>A

afatinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR G719 mutation

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 G719 mutation

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 G719 mutation

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.(G719S) c.2155G>A (continued)

gefitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR G719 mutation

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 G719 mutation

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 G719 mutation

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 G719 mutation

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.(G719S) c.2155G>A (continued)

bevacizumab + erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR G719 mutation

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 G719 mutation

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 G719 mutation

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.(G719S) c.2155G>A (continued)

erlotinib + ramucirumab

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR G719 mutation

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 G719 mutation

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 G719 mutation

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)



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EGFR p.(G719S) c.2155G>A (continued)

bevacizumab + erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR G719 mutation

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: 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]

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]



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EGFR p.(G719S) c.2155G>A (continued)

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."

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

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."



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EGFR p.(G719S) c.2155G>A (continued)

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."

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

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."



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EGFR p.(G719S) c.2155G>A (continued)

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%."

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

EGFR p.(L747S) c.2240T>C

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."

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

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."



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EGFR p.(L747S) c.2240T>C (continued)

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	O In other cancer type	0	In this cancer type and	(Ontraindicated	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.(G719S) c.2155G>A

afatinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2020-02-13 Variant class: EGFR G719 mutation

Reference

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

gefitinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2019-05-28 Variant class: EGFR G719 mutation

Reference:

https://www.ema.europa.eu/en/documents/product-information/iressa-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.(G719S) c.2155G>A

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)

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: 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]



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EGFR p.(G719S) c.2155G>A (continued)

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)

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: 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]



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EGFR p.(G719S) c.2155G>A (continued)

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)

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 + 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]



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EGFR p.(G719S) c.2155G>A (continued)

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 / $\mbox{\ A}$

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]

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]



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EGFR p.(G719S) c.2155G>A (continued)

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

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]

Signatures	
Testing Personnel:	
Laboratory Supervisor:	
Pathologist:	



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