PATIENT

EXAMPLE-LUNG-01

REPORT DATE 07-Nov-2024

Gender: Female | Birth year: 1975 | WHO: 1

Tumor: Lung - Adenocarcinoma | Lesions: Liver, Lung | Stage: IV

Summary

Clinical summary

Gender Female Birth year 1975

WHO 1 Tumor Lung - Adenocarcinoma

Lesions Liver, Lung Stage IV

Measurable disease Yes DPYD *1_HOM (Normal function)

(RECIST)

UGT1A1 *1_HOM (Normal function)

Relevant systemic treatment history 6/2023-1/2025 Osimertinib

Relevant other oncological history

Previous primary tumor

None

Relevant non-oncological history 2023 Rheumatoid arthritis

Recent molecular results KRAS G12C (0.3/2 copies)*, KRAS G12D (0.3/2 copies)*, NRAS: No reportable

events, BRAF: No reportable events, HER2: No reportable events, MSS

Recent molecular results

Hartwig WGS (22-Feb-2025)

Biopsy location Lung (purity 50%)

Molecular tissue of origin prediction

Lung: Non-small cell: LUAD (98%)

Tumor mutational load / burden

TML High (160) / TMB High (14)

Microsatellite (in)stability Stable

HR status Proficient (0)

High driver mutations EGFR L858R, EGFR C797S, KRAS G12D, KRAS G12C

Amplified genes

Deleted genes

TP53

Homozygously disrupted genes

Gene fusions

Virus detection

None

None

Trial-relevant events, considered medium/low driver: None

IHC results PD-L1: Score > 50%

Standard of care options considered potentially eligible

There are no standard of care treatment options for this patient

Approved treatments considered eligible

Treatment

Not yet determined

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Trials in NL that are open and potentially eligible (3 cohorts from 3 trials)

Trial	Cohort	Molecular	Sites	Warnings
METC 04 TEDR1	Lung cancer C797S cohort	EGFR C797S	NKI-AvL	None
METC 02 KAYRAS	Dose expansion - monotherapy - NSCLC	KRAS G12D	Erasmus MC	Variant(s) G12D in KRAS but subclonal likelihood of > 50%
EGFR-L858R- TRIAL	EGFR L858R	EGFR L858R	Elisabeth-TweeStede Ziekenhuis	n

Trials matched solely on molecular event and tumor type (no clinical data used) are shown in italicized, smaller font.

International trials that are open and potentially eligible (1 cohort from 1 trial)

Trial	Cohort	Molecular	Sites
KRAS-G12C-	KRAS G12C	KRAS G12C	Germany (Stuttgart)
TRIAL-DE			

International trials are matched solely on molecular event and tumor type (clinical data excluded).

Trials and cohorts that are considered ineligible (2)

Trial	Cohort	Molecular	Sites	Ineligibility reasons
METC 03 NO-SEE797ES	Dose escalation - monotherapy	EGFR C797S		C797S in EGFR in canonical transcript
METC 02 KAYRAS	Dose expansion - monotherapy - Colorectum	KRAS G12D	Erasmus MC	No colorectal cancer

¹ trial filtered due to eligible local trials for the same molecular target and/or the trial is for young adult patients. See Other Trial Matching Results for filtered matches.

¹ trial filtered due to trials recruiting nationally for the same molecular target. See Other Trial Matching Results for filtered matches.

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Resistance evidence

There are no standard of care treatment options for this patient

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Molecular Details

IHC results PD-L1: Score > 50%

Hartwig WGS (EXAMPLE-LUNG-01-T, 22-Feb-2025)

General

Purity	Ploidy	TML Status	TMB Status	MS Stability	HR Status	DPYD	UGT1A1
50%	2.3	High (160)	High (14)	Stable	Proficient (0)	*1_HOM (Normal function)	*1_HOM (Normal function)

Predicted tumor origin

1. Lung: Non-small cell: LUAD

	_
Combined prediction score	98%
This score is calculated by combining information on:	
(1) SNV types	60%
(2) SNV genomic localisation distribution	70%
(3) Driver genes and passenger characteristics	80%

Other cohorts have a combined prediction of 2% or lower

Drivers

Туре	Driver	Driver likelihood	Trials (Locations)	Trials in Hartwig	Best evidence in External	Resistance in External
Mutation (Hotspot)	EGFR C797S (1/4 copies)	High	TEDR1 (NKI-AvL)		Pre-clinical	
Mutation (Hotspot)	EGFR L858R (2/4 copies)	High		NCT00000006	Approved	
Mutation (Hotspot)	KRAS G12C (0.3/2 copies)*	High		NCT00000009		
Mutation (Hotspot)	KRAS G12D (0.3/2 copies)*	High	KAYRAS (Erasmus MC)			
Loss	TP53 del, 0 copies	High				
Known fusion	MET::MET, exon 13 - exon 15	High				

^{*} Variant has > 50% likelihood of being sub-clonal

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Molecular History

Molecular history

Event	Description	Driver likelihood	2025-02-22 Hartwig WGS
EGFR L858R (Tier I)	Mutation (Hotspot) Gain of function	High	VAF 0.5%
EGFR C797S (Tier II)	Mutation (Hotspot) Gain of function	High	VAF 0.25%
KRAS G12C (Tier III)	Mutation (Hotspot) Gain of function	High	VAF 0.15%
KRAS G12D (Tier III)	Mutation (Hotspot) Gain of function	High	VAF 0.15%
MET::MET (Tier III)	Known fusion Gain of function	High	Detected
TP53 del (Tier III)	Loss Unknown protein effect	High	Detected
ТМВ			14.0
MSI			Stable

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SOC literature efficacy evidence

Standard of care options considered potentially eligible

The following standard of care treatment(s) could be an option for this patient. For further details per study see 'SOC literature details' section in extended report.

There are no standard of care treatment options for this patient

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Clinical Details

Clinical summary

Relevant systemic treatment history 6/2023-1/2025 Osimertinib

Relevant other oncological history None

Previous primary tumor None

Relevant non-oncological history 2023 Rheumatoid arthritis

Patient current details (20-Feb-2025)

Unresolved toxicities grade => 2 None

LVEF 50%

Cancer-related complications None

Known allergies None

Recent surgeries 01-Aug-2024 Cholecystectomy

Tumor details (20-Feb-2025)

Measurable disease Yes

CNS lesion status

No known CNS lesions

Brain lesion status

No known brain lesions

Active medication details

Medication	Administration route	Start date	Stop date	Dosage	Frequency
St. John's Wort	Oral	01-Feb-2023		300 MILLIGRAMS	1 / 2 DAYS
Blood transfusions					

Blood transfusions

Product	Date
ERTHROCYTES_FILTERED	20-Sep-2024

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Molecular Evidence

On label clinical evidence

Event CKB Event Level A Level B Level C Level D

EGFR C797S EGFR C797S AFATINIB

Lung non-small cell carcinoma (2015)

(2

Lung non-small cell carcinoma

(2016)

AFATINIB

Lung non-small cell carcinoma

(2013)

Off label clinical evidence

Event CKB Event Level A Level B Level C Level D

Efficacy evidence description

EGFR L858R

OSIMERTINIB: Level A (2016) Lung non-small cell carcinoma Osimertinib is effective in patients with EGFR L858R mutations

AFATINIB: Level A (2013) Lung non-small cell carcinoma Afatinib is effective in patients with EGFR L858R mutations

EGFR C797S

AFATINIB: Level D (2015) Lung non-small cell carcinoma In a case-report, afatinib was effective against EGFR L858R/C797S positive lung cancer.

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Other Trial Matching Results

Trials in NL that are open and potentially eligible (1 cohort from 1 trial)

Trial	Cohort	Molecular	Sites
EGFR-L858R-	EGFR L858R	EGFR L858R	Elisabeth-TweeSteden
<u>TRIAL</u>			Ziekenhuis

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International trials that are open and potentially eligible (1 cohort from 1 trial)

Trial	Cohort	Molecular	Sites
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TRIAL-DE			

International trials are matched solely on molecular event and tumor type (clinical data excluded).

Filtered trials potentially eligible based on molecular results which are potentially recruiting (2)

Trial	Cohort	Molecular	Sites
EGFR-C797S- TRIAL	EGFR C797S	EGFR C797S	Elisabeth-TweeSteden Ziekenhuis
EGFR-BE	EGFR L858R	EGFR L858R	Belgium (Brussels)

¹ trial filtered due to trials recruiting nationally for the same molecular target. See Other Trial Matching Results for filtered matches.