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

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

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

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Trial	Cohort Molecular Sites Warnings				
METC 04 TEDR1	Lung cancer C797S cohort EGFR C7	97S 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-TweeSteden Ziekenhuis

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

1 trial filtered due to eligible local trials for the same molecular target or because the trial is for young adult patients only. See Trial Matching Overview for filtered matches.

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

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

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

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

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

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Resistance evidence

				ICE

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)

Other cohorts have a combined prediction of 2% or lower

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	d tumor origii	n					
						1. Lung: Non-small cell:	LUAD
Combine	Combined prediction score 98%						
This scor	This score is calculated by combining information on:						
(1)	SNV types					60%	
(2) SNV genomic localisation distribution 70%							
(3) I	(3) Driver genes and passenger characteristics 80%						

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% likeli	ihood 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
TMB			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 tr	reatment history	6/2023-1/2025	Osimertinib		
Relevant other onco	logical history	None			
Previous primary tur	mor	None			
Relevant non-oncolo	ogical history	2023	Rheumatoid arthri	itis	
Patient current de	etails (20-Feb-2025)				
Unresolved toxicities	s grade => 2	None			
LVEF		50%			
Cancer-related comp	plications	None			
Known allergies		None			
Recent surgeries		01-Aug-2024 Ch	olecystectomy		
Tumor details (20	-Feb-2025)				
Measurable disease		Yes			
CNS lesion status		No known CNS	lesions		
Brain lesion status		No known brair	lesions		
Active medication	n details				
Medication	Administration route	Start date	Stop date	Dosage	Frequency
St. John's Wort	Oral	01-Feb-2023		300 MILLIGRAMS	1 / 2 DAYS
Blood transfusion	าร				
Product				Date	
ERTHROCYTES_FI	LTERED			20-Sep-2024	

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Molecular Evidence

evidence					
CKB Event	Level A	Level B	Level C	Level D	
EGFR C797S				AFATINIB	
				Lung non-small o	cell carcinoma (2015)
EGFR L858R	OSIMERTINIB				
	Lung non-small cell carcinoma (2016)				
	AFATINIB				
	Lung non-small cell carcinoma (2013)				
evidence					
CKB Event	Level A	Level B	Leve	el C	Level D
e description					
	Level A (2016)	Lung non-small cell car	rcinoma		is effective in patients with R mutations
	Level A (2013)	Lung non-small cell car	rcinoma		fective in patients with EGFR tions
	Level D (2015)	Lung non-small cell car	cinoma		port, afatinib was effective FR L858R/C797S positive lung
	CKB Event EGFR C797S EGFR L858R evidence CKB Event	EGFR C797S EGFR L858R OSIMERTINIB Lung non-small cell carcinoma (2016) AFATINIB Lung non-small cell carcinoma (2013) evidence CKB Event Level A Level A Level A (2016) Level A (2013)	CKB Event Level A Level B EGFR C797S EGFR L858R OSIMERTINIB Lung non-small cell carcinoma (2016) AFATINIB Lung non-small cell carcinoma (2013) evidence CKB Event Level A Level B e description Level A (2016) Lung non-small cell carcinoma (2013) Level A (2013) Lung non-small cell carcinoma (2013)	CKB Event Level A Level B Level C EGFR C797S EGFR L858R OSIMERTINIB Lung non-small cell carcinoma (2016) AFATINIB Lung non-small cell carcinoma (2013) evidence CKB Event Level A Level B Level e description Level A (2016) Lung non-small cell carcinoma Level A (2013) Lung non-small cell carcinoma	CKB Event Level A Level B Level C Level D EGFR C797S AFATINIB Lung non-small cell carcinoma (2016) AFATINIB Lung non-small cell carcinoma (2013) evidence CKB Event Level A Level B Level C Edescription Level A (2016) Lung non-small cell carcinoma Osimertinib EGFR L858 Level A (2013) Lung non-small cell carcinoma Afatinib is el L858R muta Level D (2015) Lung non-small cell carcinoma In a case-re against EGF

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Trial Matching Overview

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

Trial	Cohort Molecular Sites
Trial	Cohort Molecular Sites

EGFR L858R EGFR L858R Elisabeth-TweeSteden Ziekenhuis

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

1 trial filtered due to eligible local trials for the same molecular target or because the trial is for young adult patients only. See Trial Matching Overview for filtered matches.

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

Trial Cohort Molecular Sites

KRAS-G12C-TRIAL-DE KRAS G12C KRAS G12C Germany (Stuttgart)

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

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

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)