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 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-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	ed prediction	score				98%		
This scor	re is calculated	d by combining inform	nation on:					
(1) SNV types 60%								
(2) SNV genomic localisation distribution 70%						70%		
(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	tis			
Patient current details (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	nolecystectomy				
Tumor details (20	-Feb-2025)						
Measurable disease		Yes					
CNS lesion status		No known CNS	No known CNS lesions				
Brain lesion status		No known brair	No known brain 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_FILTERED 20-Sep-2024							

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Molecular Evidence

CKB Event	Level A							
	Level A	Level B	Level C	Level D				
EGFR C797S				AFATINIB				
				Lung non-small cell carcinoma (2015)				
EGFR L858R	OSIMERTINIB							
	Lung non-small cell carcinoma (2016)							
	AFATINIB							
	Lung non-small cell carcinoma (2013)							
Off label clinical evidence								
CKB Event	Level A	Level B	Leve	el C Level D				
description								
	Level A (2016)	Lung non-small cell ca	rcinoma	Osimertinib is effective in patients with EGFR L858R mutations				
	Level A (2013)	Lung non-small cell ca	rcinoma	Afatinib is effective in patients with EGFR L858R mutations				
	Level D (2015)	Lung non-small cell ca	rcinoma	In a case-report, afatinib was effective against EGFR L858R/C797S positive lung cancer.				
	EGFR L858R vidence CKB Event	EGFR L858R OSIMERTINIB Lung non-small cell carcinoma (2016) AFATINIB Lung non-small cell carcinoma (2013) vidence CKB Event Level A description Level A (2016) Level A (2013)	EGFR L858R OSIMERTINIB Lung non-small cell carcinoma (2016) AFATINIB Lung non-small cell carcinoma (2013) vidence CKB Event Level A Level B description Level A (2016) Lung non-small cell carcinoma (2013) Level A (2013) Lung non-small cell carcinoma (2013)	EGFR L858R OSIMERTINIB Lung non-small cell carcinoma (2016) AFATINIB Lung non-small cell carcinoma (2013) vidence CKB Event Level A Level B Level description Level A (2016) Lung non-small cell carcinoma Level A (2013) Lung non-small cell carcinoma				

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Trial Matching Overview

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

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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)