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

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Trials in NL that are open and potentially eligible (4 cohorts from 4 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-C797S- TRIAL	EGFR C797S	EGFR C797S	Elisabeth-TweeStede Ziekenhuis	n
EGFR-L858R- TRIAL	EGFR L858R	EGFR L858R	Elisabeth-TweeStede	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 (2 cohorts from 2 trials)

Trial	Cohort	Molecular	Sites
EGFR-BE	EGFR L858R	EGFR L858R	Belgium (Brussels)
KRAS-G12C- TRIAL-DE	KRAS G12C	KRAS G12C	Germany (Stuttgart)

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

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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 tumo	or origin						
		1	. Lung: Non-small co	ell: LUAD			
Combined pre	diction score	g	18%				
This score is ca	lculated by combining	g information on:					
(1) SNV types 60%							
(2) SNV genomic localisation distribution 70%							
(3) Driver genes and passenger characteristics 80%							
Other cohorts have	Other cohorts have a combined prediction of 2% or lower						

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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)	NCT00000008	Pre-clinical	
Mutation (Hotspot)	EGFR L858R (2/4 copies)	High		NCT00000006, NCT00000007	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 * Variant has > 50% likelihood of being sub-clonal	MET_MET, exon 14 - exon 14	High				

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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 trea	tment history	6/2023-1/2025	Osimertinib		
Relevant other oncolog	gical history	None			
Previous primary tumo	r	None			
Relevant non-oncologi	cal history	2023	Rheumatoid arthrit	is	
Patient current deta	ails (20-Feb-2025)				
Unresolved toxicities g	rade => 2	None			
LVEF		50%			
Cancer-related complie	cations	None			
Known allergies		None			
Recent surgeries		01-Aug-2024 Ch	nolecystectomy		
Tumor details (20-F	eb-2025)				
Measurable disease		Yes			
CNS lesion status		No known CNS	lesions		
Brain lesion status		No known brair	n lesions		
Active medication of	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					
Product				Date	
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SOC literature details

There are no standard of care treatment options for this patient

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Molecular Evidence

On label clinical evidence						
Event	CKB Event	Level A	Level B	Level C	Leve	el D
EGFR C797S	EGFR C797S				AFA	ATINIB
					Lui (201:	ng non-small cell carcinoma 5)
EGFR L858R	EGFR L858R	OSIMERTINIB				
		Lung non-small cell carcinoma (2016)				
		AFATINIB				
		Lung non-small cell carcinoma (2013)				
Off label clinica	al evidence					
Event	CKB Event	Level A	Level B	Level C	Leve	el D
Efficacy evider	nce description					
EGFR L858R						
OSIMERTINIB:	Level A (2016	Lung non-small cell carcin	noma	Osimertinib is effective in patients with EG	FR L858R mutati	ons
AFATINIB:	Level A (2013)	Lung non-small cell carcin	noma	Afatinib is effective in patients with EGFR	L858R mutations	
EGFR C797S						
AFATINIB: Le	evel D (2015) Lun	g non-small cell carcinoma	In a case-report,	afatinib was effective against EGFR L858R/	C797S positive lu	ing cancer.

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Trial Matching Overview

Trials in NL that are open and potentially eligible (2 cohorts from 2 trials)

Trial	Cohort	Molecular	Sites
EGFR-C797S- TRIAL	EGFR C797S	EGFR C797S	Elisabeth-TweeSteden Ziekenhuis
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.

International trials that are open and potentially eligible (2 cohorts from 2 trials)

Trial	Cohort	Molecular	Sites		
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KRAS-G12C- TRIAL-DE	KRAS G12C	KRAS G12C	Germany (Stuttgart)		
International trials are matched calcly an malegular event and tymer type (aliginal data evaluded)					

Filtered trials potentially eligible based on molecular results which are potentially recruiting (0)