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 None

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

PATIENT
EXAMPLE-LUNG-01
REPORT DATE
07-Nov-2024

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

Trial	Cohort	Molecular	Warnings
METC 02 KAYRAS	Dose expansion - monotherapy - NSCLC	KRAS G12D	Variant(s) KRAS G12D in KRAS but subclonal likelihood of > 50%

Example trials that are open and potentially eligible but currently have no slots available (0)

None

NKI-AvL trials that are open and potentially eligible (2 cohorts from 1 trial)

Trial	Cohort	Molecular	Hospitals	Warnings
METC 04	Applies to all cohorts below	EGFR C797S	NKI AvL	None
TEDR1	Lung cancer C797S cohort A			None
	Lung cancer C797S cohort B			None

External trials potentially eligible based on molecular results which are potentially recruiting locally in Netherlands (2)

Trial title	Events	Source Events	Cancer Types	Hospitals
EGFR-C797S-TRIAL	EGFR C797S	EGFR C797S	Lung non-small cell carcinoma	Elisabeth- TweeSteden Ziekenhuis
EGFR-L858R-TRIAL	EGFR L858R	EGFR L858R	Lung non-small cell carcinoma	Elisabeth- TweeSteden Ziekenhuis

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

Trial title	Events	Source Events	Cancer Types	Country (cities)
EGFR-BE	EGFR L858R EGFR L858R		Lung non-small cell Belgium (Brussi carcinoma	
KRAS-G12C-TRIAL-DE	KRAS G12C	KRAS G12C	Lung non-small cell carcinoma	Germany (Stuttgart)

Example trials and cohorts that are considered ineligible (4)

Trial	Cohort	Molecular	Ineligibility reasons
METC 02 KAYRAS	Dose expansion - monotherapy - Colorectum	KRAS G12D	No colorectal cancer
METC 03 NO-SEE797ES	Dose escalation - monotherapy		C797S in EGFR in canonical transcript
METC 05	Applies to all cohorts below	None	No PIK3CA activating mutation(s)
PICKME3CA	Dose expansion - monotherapy - NSCLC		
	Dose expansion - monotherapy - Other cancer types		Tumor belongs to DOID term(s) lung non-small cell carcinoma

Open cohorts with no slots available are shown in grey.

PATIENT

EXAMPLE-LUNG-01

REPORT DATE

07-Nov-2024

Resistance evidence

There are no standard of care treatment options for this patient

PATIENT EXAMPLE-LUNG-01 REPORT DATE 07-Nov-2024

Molecular Details

PD-L1: Score > 50% **IHC** results

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)	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			
Loss	TP53 del, 0 copies	High				
Known fusion	MET_MET, exon 14 - exon 14	High				

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

PATIENT
EXAMPLE-LUNG-01
REPORT DATE
07-Nov-2024

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

PATIENT
EXAMPLE-LUNG-01

REPORT DATE 07-Nov-2024

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

PATIENT
EXAMPLE-LUNG-01

REPORT DATE 07-Nov-2024

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
Plood transfusions					

Blood transfusions

Product	Date
ERTHROCYTES_FILTERED	20-Sep-2024

PATIENT EXAMPLE-LUNG-01

REPORT DATE 07-Nov-2024

SOC literature details

There are no standard of care treatment options for this patient

PATIENT
EXAMPLE-LUNG-01
REPORT DATE
07-Nov-2024

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)

(z

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.

PATIENT EXAMPLE-LUNG-01 REPORT DATE 07-Nov-2024

Trial Matching Summary

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EGFR-L858R-TRIAL	EGFR L858R	EGFR L858R	Lung non-small cell carcinoma	Elisabeth- TweeSteden Ziekenhuis

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

Trial title	Events	Source Events	Cancer Types	Country (cities)
EGFR-BE	EGFR L858R	EGFR L858R	Lung non-small cell carcinoma	Belgium (Brussels)
KRAS-G12C-TRIAL-DE	KRAS G12C	KRAS G12C	Lung non-small cell carcinoma	Germany (Stuttgart)