PATIENT

EXAMPLE-LUNG-01

REPORT DATE 05-Nov-2024

Gender: Male | Birth year: 1950 | WHO: 0

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

Summary

Clinical summary

Gender Male Birth year 1950

WHO 0 Tumor Lung - Adenocarcinoma

Lesions Liver Stage IV

Measurable disease NA DPYD *1_HOM (Normal function)

(RECIST)

UGT1A1 *1_HOM (Normal function)

Relevant systemic treatment history 1/2023-9/2024 Osimertinib

Relevant other oncological history

Previous primary tumor

None

Relevant non-oncological history 2022 Rheumatoid arthritis

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

events, HER2: No reportable events, MSS

Recent molecular results

Hartwig WGS (20-Aug-2024)

Biopsy location Liver (purity 50%)

Molecular tissue of origin prediction

Lung: Non-small cell (98%)

Tumor mutational load / burden

TML low (40) / TMB low (2)

Microsatellite (in)stability Stable

HR status Proficient (0)

High driver mutations EGFR L858R, EGFR C797S, KRAS G12D

Amplified genes

Deleted genes

TP53

Homozygously disrupted genes

Gene fusions

Virus detection

Potentially actionable events with medium/low driver:

None

IHC results PD-L1: Score 1%

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

| Trial | Cohort | Molecular | Warnings |
|-------------------|--------------------------------|------------|----------------------------------------------------------------|
| METC 04 TEDR1 | Lung cancer C797S cohort | EGFR C797S | None |
| METC 02 KAYRAS | Dose expansion - monotherapy - | 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 (1 cohort from 1 trial)

| Trial | Cohort | Molecular | Warnings |
|---------|-------------------------------|-----------|----------------------------------------------------------------------|
| METC 01 | Dose escalation - monotherapy | | Hemoglobin 5.6 mmol/L below min of 6.0 mmol/L, History of rheumatoid |
| IEMOEN | | | arthritis, SOC not exhausted: at least platinum doublet remaining |

External trials potentially eligible based on molecular results which are potentially recruiting locally in Netherlands (1)

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

Example trials and cohorts that are open but considered ineligible (2)

| 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 detected in EGFR |

Open cohorts with no slots available are shown in grey.

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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 1%

Hartwig WGS (EXAMPLE-LUNG-01-T, 20-Aug-2024)

General

| Purity | TML Status | TMB Status | MS Stability | HR Status | DPYD | UGT1A1 |
|--------|------------|------------|--------------|----------------|--------------------------|--------------------------|
| 50% | low (40) | low (2) | Stable | Proficient (0) | *1_HOM (Normal function) | *1_HOM (Normal function) |

Predicted tumor origin

1. Lung: Non-small cell

| | - | | | |
|-------------------------------------------------------|-----|--|--|--|
| 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 in Example | Trials in Hartwig | Best evidence in External | Resistance in External |
|--------------------|---------------------------|-------------------|-------------------|-------------------|------------------------------|------------------------|
| Mutation (Hotspot) | EGFR C797S (1/4 copies) | High | TEDR1 | | | |
| Mutation (Hotspot) | EGFR L858R (2/4 copies) | High | | | | |
| Mutation (Hotspot) | KRAS G12D (0.3/2 copies)* | High | KAYRAS | | | |
| Loss | TP53 del, 0 copies | High | | | | |

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

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Molecular History

Molecular history

| Event | Description | Driver likelihood | 2024-08-20 |
|------------|------------------------|-------------------|-------------|
| | | | Hartwig WGS |
| EGFR C797S | Missense | High | VAF 0.25% |
| (Tier III) | Gain of function | | |
| | Hotspot | | |
| EGFR L858R | Missense | High | VAF 0.5% |
| (Tier III) | Gain of function | | |
| | Hotspot | | |
| KRAS G12D | Missense | High | VAF 0.15% |
| (Tier III) | Gain of function | | |
| | Hotspot | | |
| TP53 del | Deletion | High | Detected |
| (Tier III) | Unknown protein effect | | |
| TMB | | | 2.0 |
| 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 1/2023-9/2024 Osimertinib

Relevant other oncological history None

Previous primary tumor None

Relevant non-oncological history 2022 Rheumatoid arthritis

Patient current details (01-Oct-2024)

Tumor details (01-Oct-2024)

Measurable disease Unknown

CNS lesion status

Brain lesion status

No known CNS lesions

No known brain lesions

Active medication details

Medication Administration route Start date Stop date Dosage Frequency

None

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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 Level D

Off label clinical evidence

Event CKB Event Level A Level B Level C Level D

Efficacy evidence description

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Trial Matching Summary

External trials potentially eligible based on molecular results which are potentially recruiting locally in Netherlands (1)

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