PATIENT
EXAMPLE-LUNG-01

REPORT DATE 17-Apr-2025

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 160 / TMB 14 mut/Mb

Microsatellite (in)stability Stable

HR status Proficient (0)

Driver mutations EGFR C797S, EGFR L858R, KRAS G12C, KRAS G12D

Amplified genes None

Deleted genes TP53

Homozygously disrupted genes None

Gene fusions MET(exon13)::MET(exon15) fusion

Virus None
Potential trial events, considered no high 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

Trials in NL that are open and potentially eligible (4 cohorts from 4 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-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 |
|--------------------|------------|------------|--------------------|
| 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 | Molecu | Molecul Ineligibility reasons | |
|------------------------|---|---------------|---------------------------------------|--|
| | | ar | | |
| METC 03 NO-SEE797ES | Dose escalation - monotherapy | EGFR C797S | C797S in EGFR in canonical transcript | |
| METC 02 KAYRAS | Dose expansion - monotherapy - Colorectum | KRAS G12D | No colorectal cancer | |

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Resistance evidence

Resistance evidence

There are no standard of care treatment options for this patient

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Molecular Details

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 turn | nor origin | | | | | | | |
| | | | | 1. Lung: Non-sm | all cell: LUAD | | | |
| Combined pr | ediction score | | | 98% | | | | |
| This score is o | This score is calculated by combining information on: | | | | | | | |
| (1) SNV | types | | | 60% | | | | |

70%

80%

Other cohorts have a combined prediction of 2% or lower

(2) SNV genomic localisation distribution

(3) Driver genes and passenger characteristics

Drivers

| Туре | Driver | Trials (Locations) | Trials in Hartwig | Best evidence in External | Resistance in External |
|-----------------------------|---------------------------|------------------------|-----------------------------|------------------------------|---------------------------|
| Mutation (gain of function) | EGFR C797S (1/4 copies) | TEDR1 (NKI-AvL) | NCT00000008 | Pre-clinical | |
| Mutation (gain of function) | EGFR L858R (2/4 copies) | | NCT00000006, NCT00000007 | Approved | |
| Mutation (gain of function) | KRAS G12C (0.3/2 copies)* | | NCT00000009 | | |
| Mutation (gain of function) | KRAS G12D (0.3/2 copies)* | KAYRAS (Erasmus MC) | | | |
| Deletion | TP53 del, 0 copies | | | | |

The table continues on the next page

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Continued from the previous page

Type Driver Trials (Locations) Trials in Hartwig Best evidence in Resistance in External External

MET(exon13)::MET(exon15) fusion Known fusion

IHC results

PD-L1 Score > 50%

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

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Molecular History

Molecular history

| Event | Description | 2025-02-22 Hartwig WGS |
|--|------------------------------------|---------------------------|
| EGFR L858R (Tier I) | Mutation (gain of function) | VAF 0.5% |
| EGFR C797S (Tier II) | Mutation (gain of function) | VAF 0.25% |
| KRAS G12C (Tier III) | Mutation (gain of function) | VAF 0.15% |
| KRAS G12D (Tier III) | Mutation (gain of function) | VAF 0.15% |
| MET(exon13)::MET(exon15) fusion (Tier III) | Known fusion Gain of function | Detected |
| TP53 del (Tier III) | Deletion Unknown protein effect | Detected |
| ТМВ | | 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 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

Known lesions Liver, Lung

Unknown lesions None

No lesions present CNS, Brain, Bone, Lymph node

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 |
| | | | | | |

Blood transfusions

| Product | Date |
|----------------------|-------------|
| ERTHROCYTES_FILTERED | 20-Sep-2024 |

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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 I | abel | clini | cal | evid | lence |
|------|------|-------|-----|------|-------|
|------|------|-------|-----|------|-------|

| Event | CKB Event | Level A | Level B | Level C | Level D |
|------------------|-----------------|--|---------|-------------------------------|---|
| EGFR C797S | EGFR C797S | | | | AFATINIB |
| | | | | | Lung non-small cell carcinoma (2015) |
| EGFR L858R | EGFR L858R | OSIMERTINIB | | | |
| | | Lung non-small cell carcinom (2016) | a | | |
| | | AFATINIB | | | |
| | | Lung non-small cell carcinom (2013) | a | | |
| Off label clinic | al evidence | | | | |
| Event | CKB Event | Level A | Level B | Level C | Level D |
| None | | | | | |
| Efficacy evide | nce 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. |
| Treatment rank | king | | | | |
| Treatment | | Events | 3 | Score | |
| AFATINIB | | EGFR | L858R | 2,150 | |
| | | EGFR | C797S | | |
| OSIMERTINIB | | EGFR | L858R | 1,900 | |

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Other Trial Matching Results

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

| Trial | Cohort | Molecular | Sites | Warnings |
|------------------|------------|------------|------------------------------------|----------|
| 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 |
|--------------------|------------|------------|--------------------|
| 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).

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Trial Matching Details

Potentially eligible open trials & cohorts

METC 01

| Potentially eligible | Yes |
|----------------------|---|
| Acronym | IEMOEN |
| Title | Phase I first-in-human study to evaluate safety of IEMOEN, a new PD-L1 inhibitor in advanced solid tumors |
| Reference | Evaluation |
| I-03 | WARN |
| | Has not exhausted SOC (at least platinum doublet remaining) |
| E-02 | UNDETERMINED |
| | No measurement found for hemoglobin |
| E-03 | UNDETERMINED |
| | No measurement found for absolute neutrophil count |
| E-01 | PASS |
| | Has no other condition belonging to category autoimmune disease |
| I-01 | PASS |
| | Patient is at least 18 years old |
| I-02 | PASS |
| | Has solid primary tumor |
| | Stage IV is considered metastatic |

METC 01 - Dose escalation - monotherapy

Cohort ID Potentially eligible? Yes Open for inclusion? Yes Has slots available? No

METC 01 - Dose expansion - monotherapy

Cohort ID Potentially eligible? Yes Open for inclusion? No Has slots available? No

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METC 02

| Potentially eligible | Yes |
|----------------------|---|
| Acronym | KAYRAS |
| Title | A phase 1/2 trial for first in-human usage of KAYRAS, a new specific KRAS G12D inhibitor in NSCLC and colorectal cancer |
| Reference | Evaluation |
| I-04 | WARN |
| | Variant(s) G12D in KRAS but subclonal likelihood of > 50% |
| I-03 | UNDETERMINED |
| | ASAT and ALAT are not present or cannot be evaluated |
| I-01 | PASS |
| | Patient is at least 18 years old |
| I-02 | PASS |
| | Stage IV is considered metastatic |

METC 02 - Dose expansion - monotherapy - NSCLC

| Cohort ID | A |
|-----------------------|---|
| Potentially eligible? | Yes |
| Open for inclusion? | Yes |
| Has slots available? | Yes |
| Reference | Evaluation |
| I-02 | PASS |
| | Tumor belongs to DOID term(s) lung non-small cell carcinoma |

METC 02 - Dose expansion - monotherapy - Colorectum

No colorectal cancer

| В |
|------------|
| No |
| Yes |
| Yes |
| Evaluation |
| FAIL |
| |

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METC 04

| Potentially eligible | Yes |
|----------------------|---|
| Acronym | TEDR1 |
| Title | TEDR1 Trial: A phase II trial to evaluate efficacy of specific EGFR inhibitors in lung cancer |
| Reference | Evaluation |
| I-1 | PASS |
| | Patient is at least 18 years old |
| I-2 | PASS |
| | Stage IV is considered metastatic |
| | Tumor belongs to DOID term(s) lung cancer |
| I-3 | PASS |
| | C797S in EGFR in canonical transcript |

METC 04 - Lung cancer C797S cohort

Cohort ID Potentially eligible? Yes Open for inclusion? Yes Has slots available? Yes

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Other trials & cohorts

METC 03

Potentially eligible No

Acronym NO-SEE797ES

Title Phase I trial for development of NO-SEE797ES, a specific inhibitor for EGFR with C797 mutations but not C797S

in solid tumors

Reference Evaluation

I-03 FAIL

C797S in EGFR in canonical transcript

METC 03 - Dose escalation - monotherapy

Cohort ID A

Potentially eligible? No

Open for inclusion? Yes

Has slots available? Yes

METC 05

Potentially eligible No

Acronym PICKME3CA

Title A phase 1/2 trial of ABC123 +/- platinum doublet in PIK3CA-mutated solid cancer

Reference Evaluation

I-04 FAIL

No PIK3CA activating mutation(s)

METC 05 - Dose expansion - monotherapy - NSCLC

Cohort ID A
Potentially eligible? No
Open for inclusion? No
Has slots available? Yes

METC 05 - Dose expansion - monotherapy - Other cancer types

Cohort ID B
Potentially eligible? No
Open for inclusion? No
Has slots available? Yes

Reference Evaluation

I-03 FAIL

Tumor belongs to DOID term(s) lung non-small cell carcinoma