ACTIN Report (research use only)

PATIENT
EXAMPLE-CRC-01

REPORT DATE
17-Sep-2025

Gender: Female | Birth year: 1946 | WHO: 0

Tumor: Colorectum (cecum) carcinoma | Lesions: Lung, Peritoneal | Stage: IV

Clinical summary

Gender (birth year, WHO)	**Female (1946, WHO 0)**	Stage	**IV**
Tumor	**Colorectum (cecum) carcinoma**	DPYD	**N/A**
Lesions	**Lung, Peritoneal**	UGT1A1	**N/A**
Measurable (RECIST)	**Yes**		

Relevant systemic treatment history	**None**
Relevant other oncological history	**11/2021 Hemicolectomy right (Cecum)**
Previous primary tumor	**Skin squamous cell carcinoma (diagnosed 6/2016, last treatment 8/2016, considered non-active)**
Relevant non-oncological history	**1/2019 Cerebrovascular accident**
Recent molecular results	**[KRAS G12D (0.0/0.0 copies), NRAS: No reportable events, BRAF: No reportable events, HER2: No reportable events], MSS**

Standard of care options considered potentially eligible

Treatment	Literature efficacy evidence	Real-world efficacy evidence	Warnings
FOLFIRI	PHASE-3-CRC		
	PFS: 10.0 months (95% CI: 10.0-12.0)	**PFS:** 13.3 months, IQR: 12.6	
	OS: 25.0 months (95% CI: 25.0-30.0)	**OS:** 22.2 months, IQR: 24.8	

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

Trial	Cohort	Molecular	Sites	Warnings
KRAS-G12D-TRIAL	*KRAS G12D*	*KRAS G12D*	*UMC Utrecht*	

Trials matched solely on molecular event and tumor type (no clinical data used) are shown in italicized, smaller font.

All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.
Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).

SOC personalized real-world evidence annotation

Treatment decisions (percentage of population assigned to systemic treatment) in NCR real-world data set

	All (n=9207)	Age 73-83y (n=2727)	WHO 1 (n=2828)	RAS positive (n=2760)	Liver only lesions (n=2715)
FOLFIRI	38.5%	23.8%	37.9%	44.6%	39.5%

Median overall survival (OS) in months in NCR real-world data set

	All (n=9207)	Age 73-83y (n=2727)	WHO 1 (n=2828)	RAS positive (n=2760)	Liver only lesions (n=2715)
FOLFIRI	**16.1**, IQR: 18.2 (n=3543)	**15.4**, IQR: 18.2 (n=649)	**14.8**, IQR: 16.3 (n=1071)	**15.8**, IQR: 14.2 (n=1230)	**16.5**, IQR: 17.4 (n=1073)

Median progression-free survival (PFS) in months in NCR real-world data set

	All (n=5018)	Age 73-83y (n=1330)	WHO 1 (n=1623)	RAS positive (n=1822)	Liver only lesions (n=1534)
FOLFIRI	**8.2**, IQR: 5.5 (n=2106)	**8**, IQR: 6.1 (n=340)	**7.9**, IQR: 5 (n=661)	**8**, IQR: 4.7 (n=836)	**8.3**, IQR: 5.3 (n=652)

Explanation:

These tables only show treatments that are considered standard of care (SOC) in colorectal cancer in the Netherlands.

The ‘All’ column shows results in NCR patients who were previously untreated, diagnosed with colorectal cancer with distant metastases and treated systemically without surgery, for whom the treatment could be categorized in SOC treatments.

The ‘Age’, ‘WHO’, ‘RAS’ and ‘Lesions’ columns show results based on patients from the ‘All’ population, filtered for equal WHO, similar age, equal RAS status or equal lesion localization, respectively.

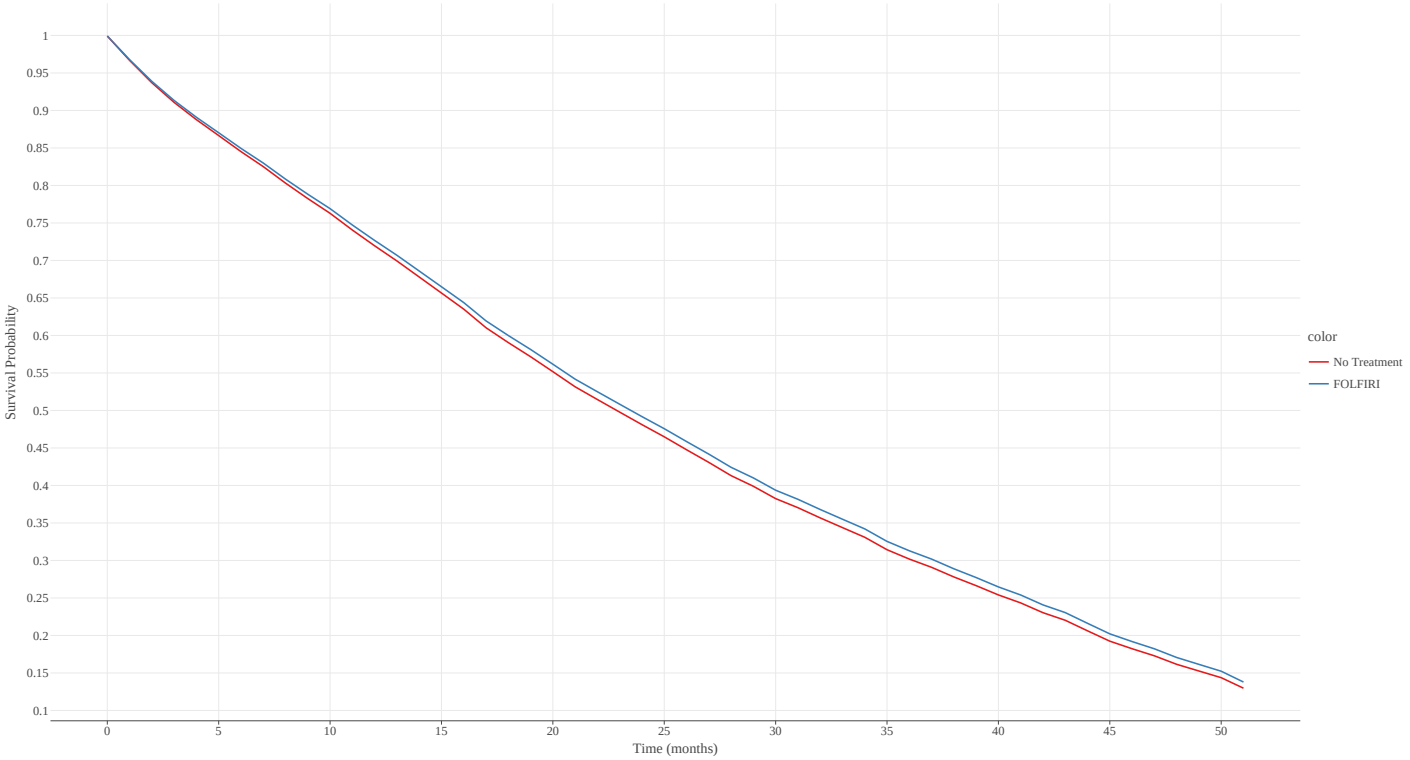
‘PFS’ is calculated as the duration from the date on which the first compound of the treatment was administered, until first progression.

‘OS’ is calculated as the duration from the date on which the first compound of the treatment was administered, until death from any cause.

When patient number is too low (n <= 20) to predict PFS or OS, "NA" is shown.

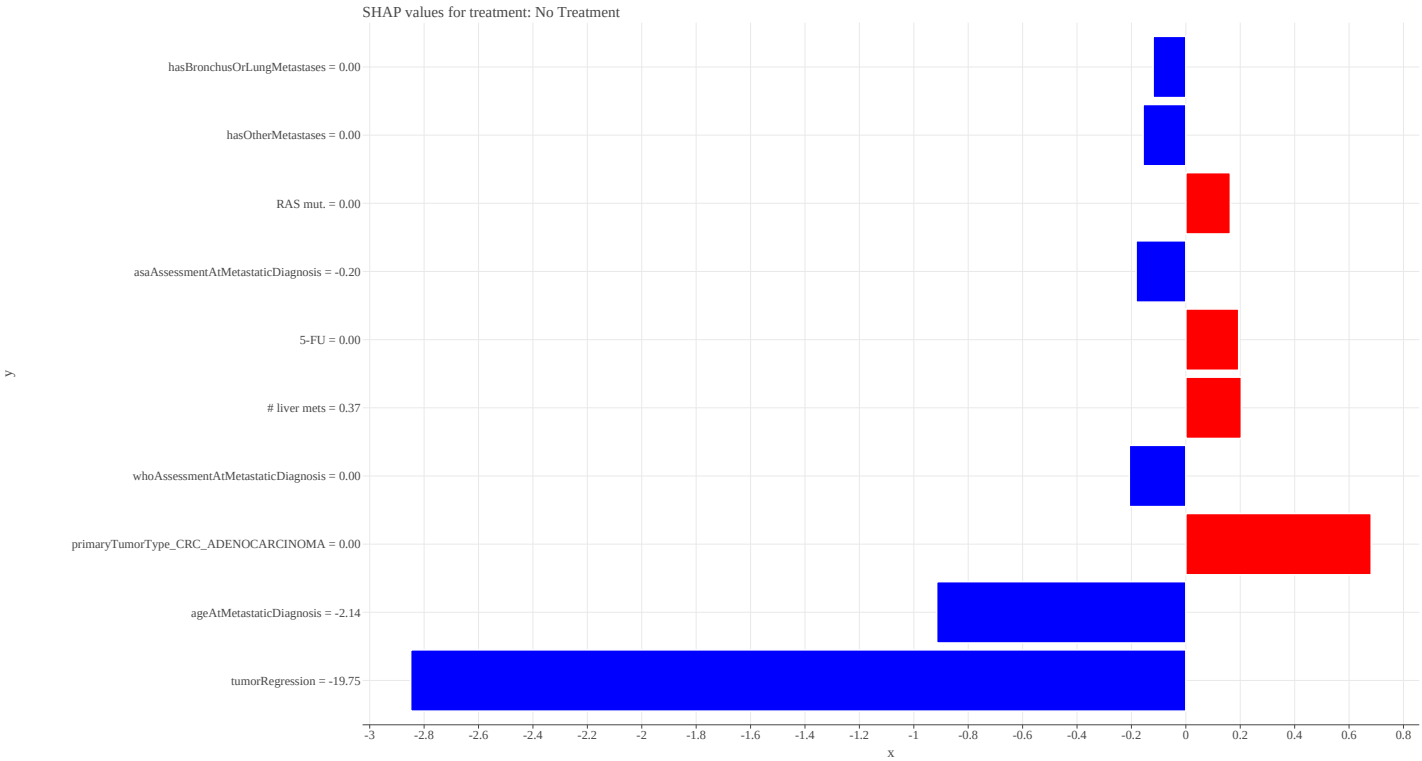
All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.

Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).



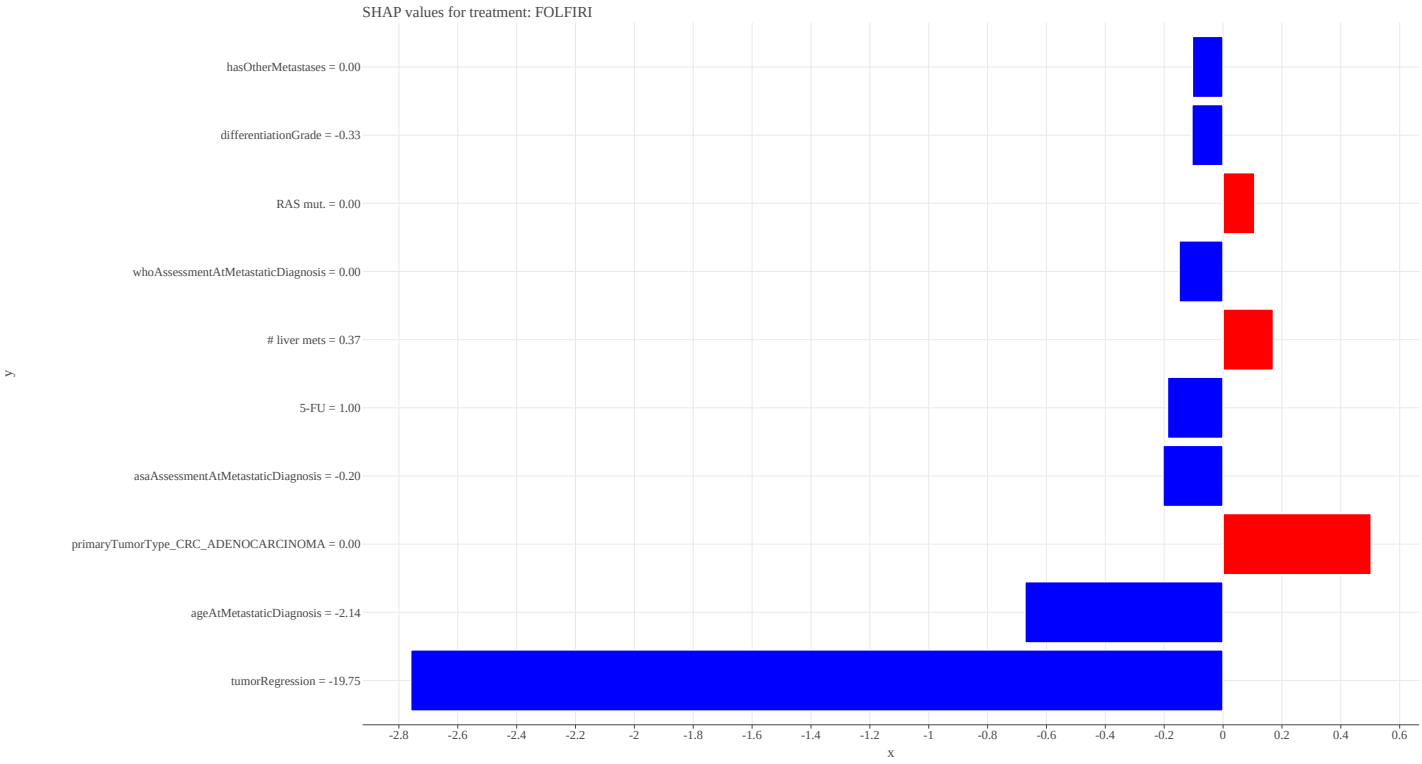
All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.

Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).



All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.

Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).



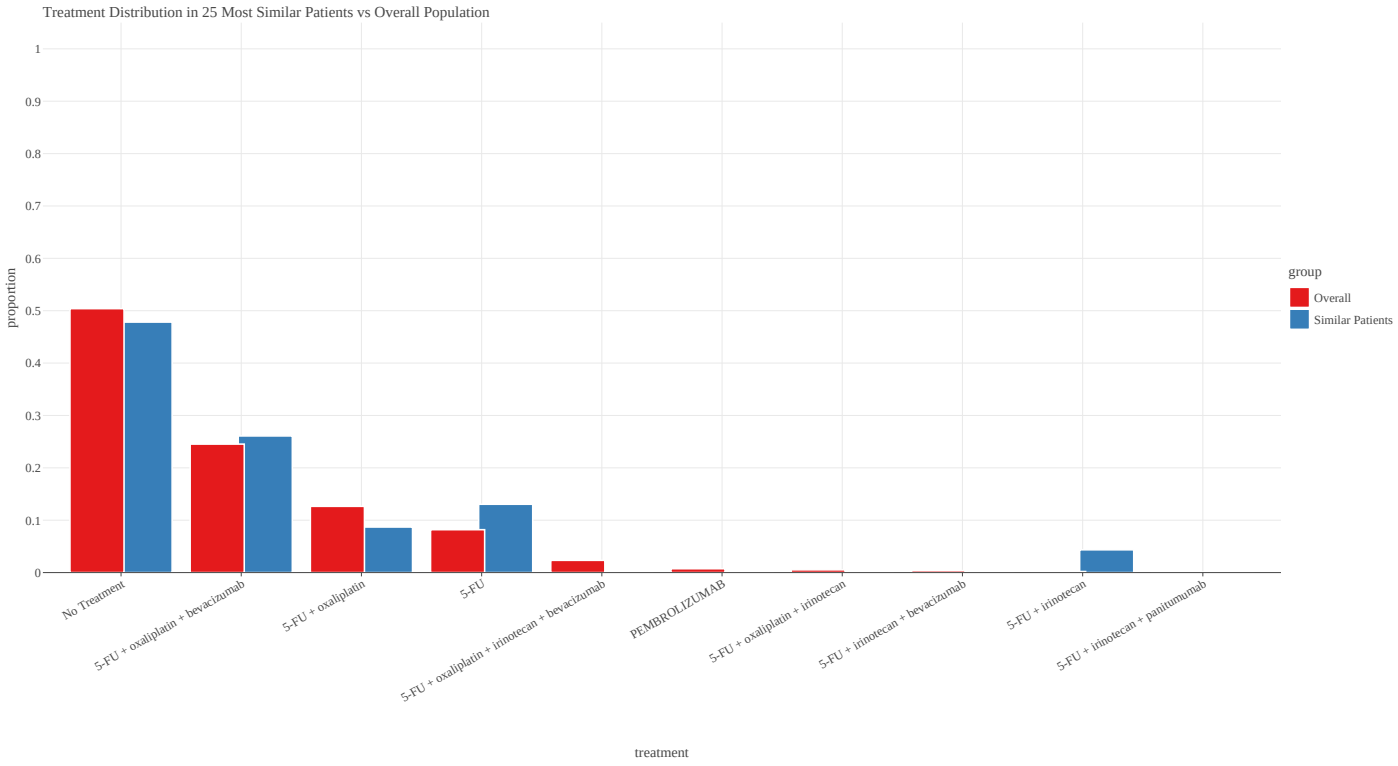
All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.

Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).

ACTIN Report (research use only)

PATIENT
EXAMPLE-CRC-01

REPORT DATE
17-Sep-2025



All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.
Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).

Resistance evidence

Resistance evidence

Treatment	Mutation	Evidence source	Evidence level	Found in molecular analysis
FOLFIRI	GENE S11C	[1]	D	Yes

All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.
Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).

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.

Treatment	Literature efficacy evidence
FOLFIRI	PHASE-3-CRC

Patient characteristics:

WHO/ECOG	0: 100, 1: 80, 2: 20, 3: 0, 4: 0
Primary tumor location	Left: 145, Both or unknown: 10, Right: 45
Mutations	KRAS exon 2 wild-type 200/200
Metastatic sites	Liver only: 58 (32.0%), Lung only: 10 (6.0%)
Previous systemic therapy	35/200
Prior therapies	Adjuvant chemotherapy

Median PFS: 10.0 months (95% CI: 10.0-12.0)

Median OS: 25.0 months (95% CI: 25.0-30.0)

All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.

Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).

Clinical Details

Clinical summary

Relevant systemic treatment history	**None**	
Relevant other oncological history	**11/2021**	**Hemicolectomy right (Cecum)**
Previous primary tumor	**Skin squamous cell carcinoma (diagnosed 6/2016, last treatment 8/2016, considered non-active)**	
Relevant non-oncological history	**1/2019**	**Cerebrovascular accident**

Patient current details (05-Mar-2023)

Unresolved toxicities grade => 2	**None**
Cancer-related complications	**Unknown**
Known allergies	**Morphine**
Recent surgeries	**12-Nov-2021 Hemicolectomy right**

Tumor details (05-Mar-2023)

Measurable disease	**Yes**
Known lesions	**Lung, Peritoneal**
Unknown lesions	**Lymph node**
No lesions present	**CNS, Brain, Liver, Bone**

Active medication details

Medication	Administration route	Start date	Stop date	Dosage	Frequency
None					

Blood transfusions

Product	Date
ERTHROCYTES_FILTERED	10-Jan-2023

All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.
Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).

SOC literature details

PHASE-3-CRC

Study: PHASE-3-CRC, Phase III, Adjuvant

Molecular requirements: None

Therapies: FOLFIRI+Cetuximab, FOLFIRI

Patient characteristics:

	Cetuximab + FOLFIRI (n=100)	FOLFIRI (n=200)
Age (median [range])	65.0 [40-75]	65.0 [30-75]
Sex	Male: 50 Female: 50	Male: 120 Female: 80
Race	NA	NA
Region	Europe: 100 patients	Europe: 200 patients
WHO/ECOG	0: 80, 1: 10, 2: 10, 3: 0, 4: 0	0: 100, 1: 80, 2: 20, 3: 0, 4: 0
Primary tumor location	Left: 78 Both or unknown: 3 Right: 19	Left: 145 Both or unknown: 10 Right: 45
Mutations	KRAS exon 2 wild-type 100/100	KRAS exon 2 wild-type 200/200
Metastatic sites	Liver only: 62 (62.0%), Lung only: 4 (4.0%)	Liver only: 58 (32.0%), Lung only: 10 (6.0%)
Time of metastases	Unknown	Unknown
Previous systemic therapy	30/100	35/200
Prior therapies	Adjuvant chemotherapy	Adjuvant chemotherapy

Primary endpoints:

	Cetuximab + FOLFIRI	FOLFIRI	Hazard ratio (HR) / Odds Ratio (OR)	P value

Median follow-up for PFS was 70 months

All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.
Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).

Secondary endpoints:

	Cetuximab + FOLFIRI	FOLFIRI	Hazard ratio (HR) / Odds Ratio (OR)	P value
Median Overall Survival (95% CI)	35.0 (25.0 - 40.0)	25.0 months (25.0 - 30.0)	0.75 (0.6 - 0.95)	p = 0.011
Median Progression-Free Survival (95% CI)	10.0 (10.0 - 12.0)	10.0 months (10.0 - 12.0)	0.99 (0.8 - 1.25)	p = 1

Median follow-up for PFS was 70 months

All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.

Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).

Other Trial Matching Results

Trials and cohorts that are potentially eligible, but are closed (0)

Trial	Cohort	Molecular	Sites	Warnings
None				

Trials and cohorts that are considered ineligible (2)

Trial	Cohort	Molecular	Ineligibility reasons
METC 02 KAYRAS	*Applies to all cohorts below*	KRAS G12D	PD-L1 expression below minimum of 50.0
	Dose expansion - monotherapy - Colorectum		
	Dose expansion - monotherapy - NSCLC		No lung non-small cell carcinoma

Trials and cohorts that are not evaluable or ignored (0)

Trial	Cohort	Molecular	Sites	Configuration
None				

All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.

Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).

Trial Matching Details

Other trials & cohorts

METC 02

Potentially eligible	No
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-05	FAIL PD-L1 expression below minimum of 50.0

METC 02 - Dose expansion - monotherapy - NSCLC

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

Reference	Evaluation
I-02	FAIL No lung non-small cell carcinoma

METC 02 - Dose expansion - monotherapy - Colorectum

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

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
E-01	PASS Has no other condition belonging to category autoimmune disease
E-02	PASS Hemoglobin above 6 mmol/L
E-03	PASS Neutrophils above 1.5

All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.

Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).

Reference	Evaluation
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	**A**
Potentially eligible?	**Yes**
Open for inclusion?	**No**
Has slots available?	**No**

METC 01 - Dose expansion - monotherapy

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

All results and data described in this report are for Research Use Only and have NOT been generated using a clinically validated and controlled procedure nor is it a validated medical device. The results should NOT be used for diagnostic or treatment purposes. No rights can be derived from the content of this report.

Gene and variant annotations and related content are powered by Genomenon Cancer Knowledgebase (CKB).