

CNMP AVANZADO SIN MUTACIONES ACCIONABLES

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Hospital Universitario Fundación Alcorcón



KEY-HOME MESSAGES

- **ADC**

- TROP-2 ADC's in 2nd line not superior to SoC CT (Docetaxel)
- (TROP-2) ADC's + ICB combo in 1L NSCLC promising!!!
- Need more studies of biomarkers to better understand MoA and resistance
- cMET directed Teliso-V: promising results in IHC+ pts, Will beat Docetaxel?
- IB6 directed ADC: promising results in ph1. Tryng to beat Docetaxel irrespective of IHC

- **Oligometastatic disease**

- First randomized ph II/III study evaluating LCT after 1L IO-based systemic régimen NEGATIVE (no PFS Benefit)
- Further investigation required

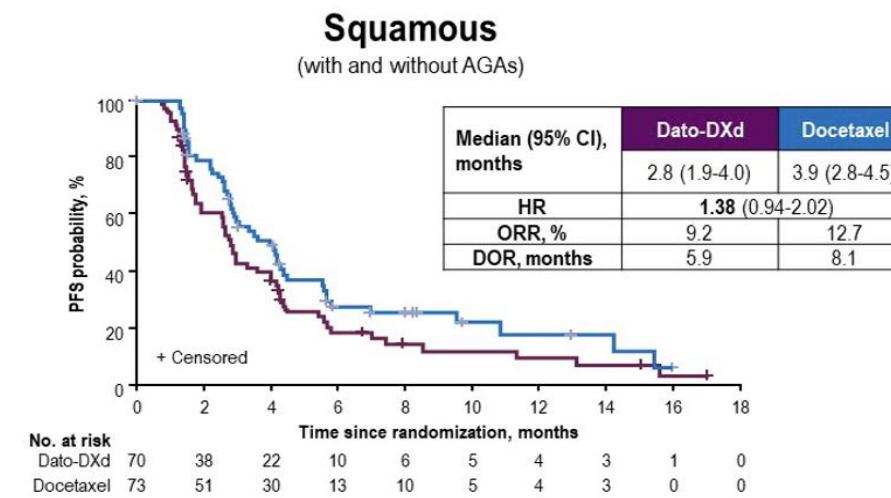
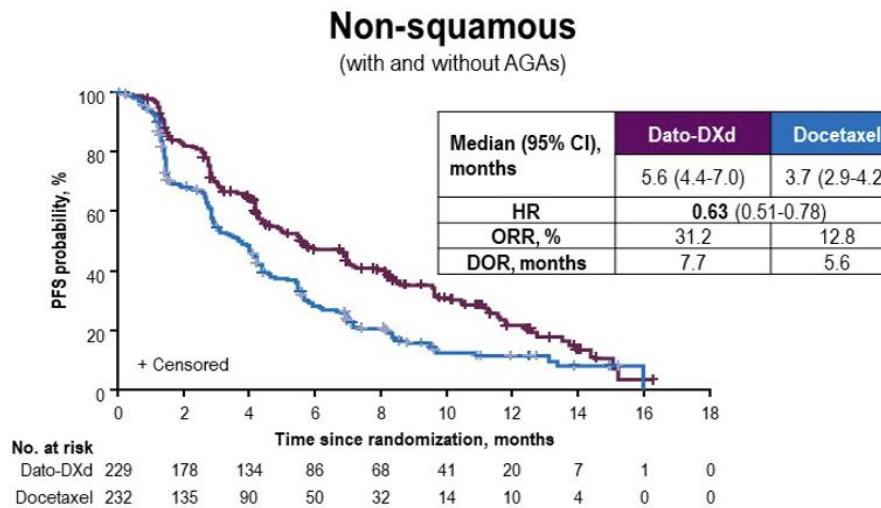
- **1L immunotherapy**

- Confirmation of double IO + short CT regimen as an efficient alternative in advanced NSCLC with similar proportion of long survivors, with higher proportion in PD-L1 negative pts

- **TTFields**



- Overexpressed in aprox 80% NSCLC
- High TROP-2 expression worse prognosis in adenocarcinomas (not sq)
- Phase 3 TROPION-Lung01 study: demonstrated significant improvement in PFS with Dato-DXd over Docetaxel (HR 0.75, p=0.004) in 2L NSCLC and clinically meaningful OS in non-sq histology



TROP-2: EVOKE-01 - SACITUZUMAB GOVITECAN

 2024 ASCO[®]
 ANNUAL MEETING

2024 ASCO Annual meeting, May 31 – June 4, 2024, Chicago, IL, USA

Abstract LBA8500

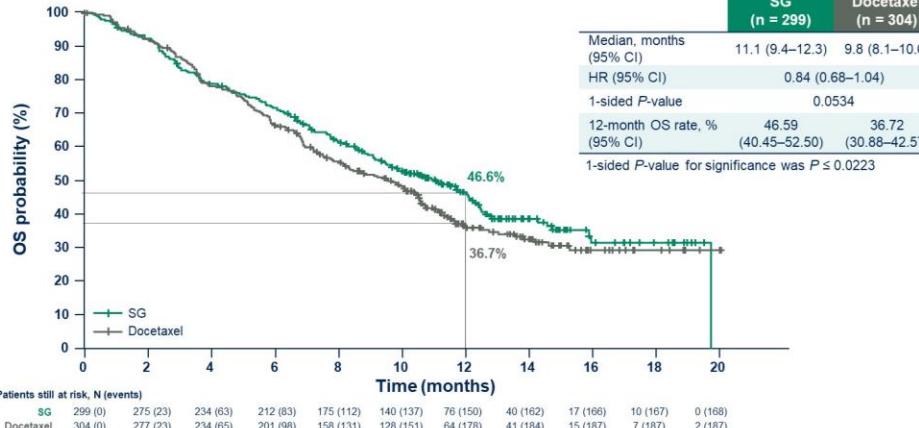
Sacituzumab Govitecan vs Docetaxel in Patients With Metastatic Non-small Cell Lung Cancer Previously Treated With Platinum-Based Chemotherapy and PD-(L)1 Inhibitors: Primary Results From the Phase 3 EVOKE-01 Study

Luis G. Paz-Ares, MD, PhD,¹ Oscar Juan-Vidal, MD,² Giannis S. Mountzios, MD, PhD,³ Enriqueta Felip, MD, PhD,⁴ Niels Reinmuth, MD,⁵ Filippo de Marinis, MD, PhD,⁶ Nicolas Girard, MD, PhD,⁷ Vipul M. Patel, MD,⁸ Takayuki Takahama, MD, PhD,⁹ Scott P. Owen, MD,¹⁰ Douglas M. Reznick, MD,¹¹ Firas B. Badin, MD,¹² Irfan Cicin, MD,¹³ Sabeen Mekan, MD,¹⁴ Riddhi Patel, PharmD,¹⁴ Eric Zhang, PhD,¹⁴ Divyadeep Karumanchi, PharmD,¹⁴ Marina Chiara Garassino, MD¹⁵

¹Hospital Universitario 12 de Octubre, H12O-CNIO Lung Cancer Unit, Complutense University and Ciberoncse University and Ciberonc, Madrid, Spain; ²Hospital Universitari i Politècnic La Fe de València, Valencia, Spain; ³Henry Dunant Hospital Center, Athens, Greece; ⁴Vall d'Hebron University Hospital and Vall d'Hebron Institute of Oncology, Barcelona, Spain; ⁵Asklepios Lung Clinic, German Center for Lung Research (DZL), Munich-Gauting, Germany; ⁶European Institute of Oncology IRCCS, Milan, Italy; ⁷Institut du Thorax Curie Montsouris, Institut Curie, Paris, France; ⁸Florida Cancer Specialists and Research Institute, Ocala, FL, USA; ⁹Kindai University, Osaka, Japan; ¹⁰McGill University Health Centre, Montreal, Quebec, Canada; ¹¹Rocky Mountain Cancer Center, Aurora, CO, USA; ¹²Baptist Health Medical Group, Lexington, KY, USA; ¹³Istanbul University, Medical Center, Istanbul, Turkey; ¹⁴Gilead Sciences, Inc, Foster City, CA, USA; ¹⁵University of Chicago Comprehensive Cancer Center, Chicago, IL, USA

 2024
ANNUAL

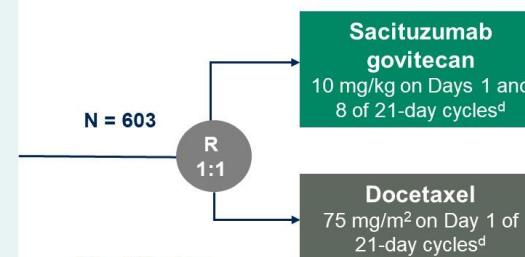
Primary End Point: Overall Survival (ITT)



EVOKE-01: Global, Randomized, Open-Label, Phase 3 Study

Key eligibility criteria

- Measurable stage IV NSCLC
- ECOG PS 0–1
- Radiographic progression after platinum-based and anti-PD-(L)1-containing regimen^a
- In addition, patients with known AGAs must have received ≥ 1 approved TKI^b
 - EGFR/ALK test required. Testing of other AGAs recommended^c
- Previously treated stable brain metastases were included
- No prior treatment with Topo-1 inhibitors, Trop-2-targeted therapies, or docetaxel



Stratified by

- Histology (squamous vs nonsquamous)
- Response to last anti-PD-(L)1-containing regimen (responsive [best response CR/PR] vs nonresponsive [PD/SD])
- Received prior targeted therapy for AGA (yes vs no)

End points

Primary

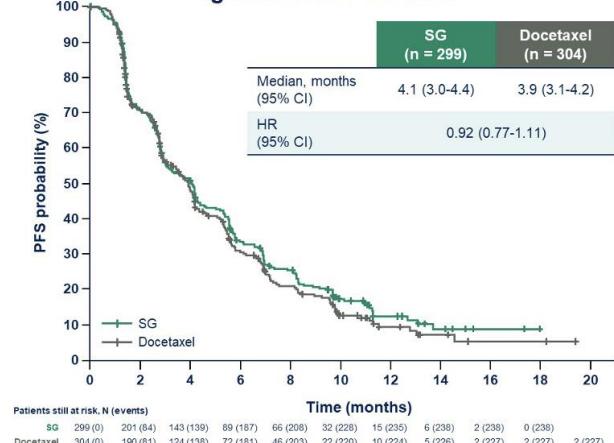
- OS

Secondary

- PFS, ORR, DOR, and DCR by INV per RECIST v1.1
- Safety and tolerability
- QoL using NSCLC-SAQ

At data cutoff (29 November 2023), the study median follow-up was 12.7 months (range, 6.0–24.0)

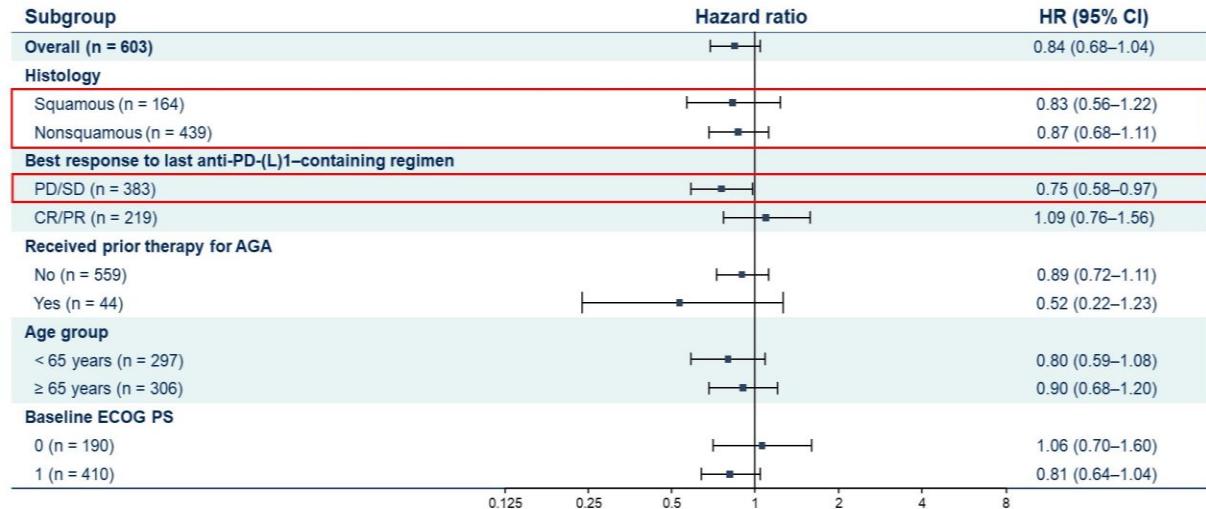
Progression-free Survival^a



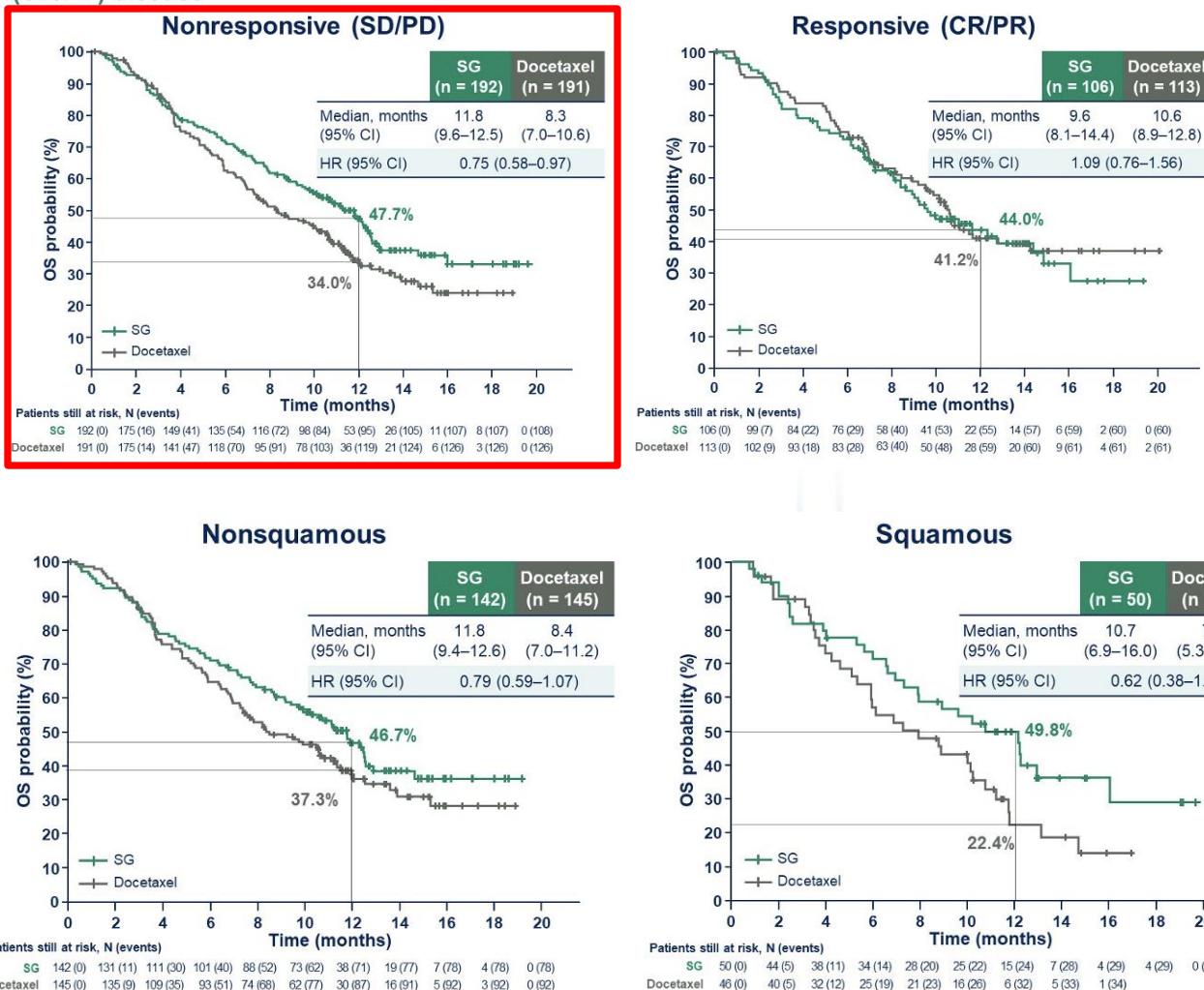
Objective Response Rate^a

SG (n = 299)	Docetaxel (n = 304)
ORR, % (95% CI)	13.7 (10.0–18.1) 18.1 (13.9–22.9)
DCR, % (95% CI)	67.6 (61.9–72.8) 67.1 (61.5–72.4)
Median DOR, months (95% CI)	6.7 (4.4–9.8) 5.8 (4.1–8.3)
DOR rate at 6 months, % (95% CI)	52.5 (35.6–66.9) 46.5 (31.9–59.8)

Overall Survival: Subgroup Analyses

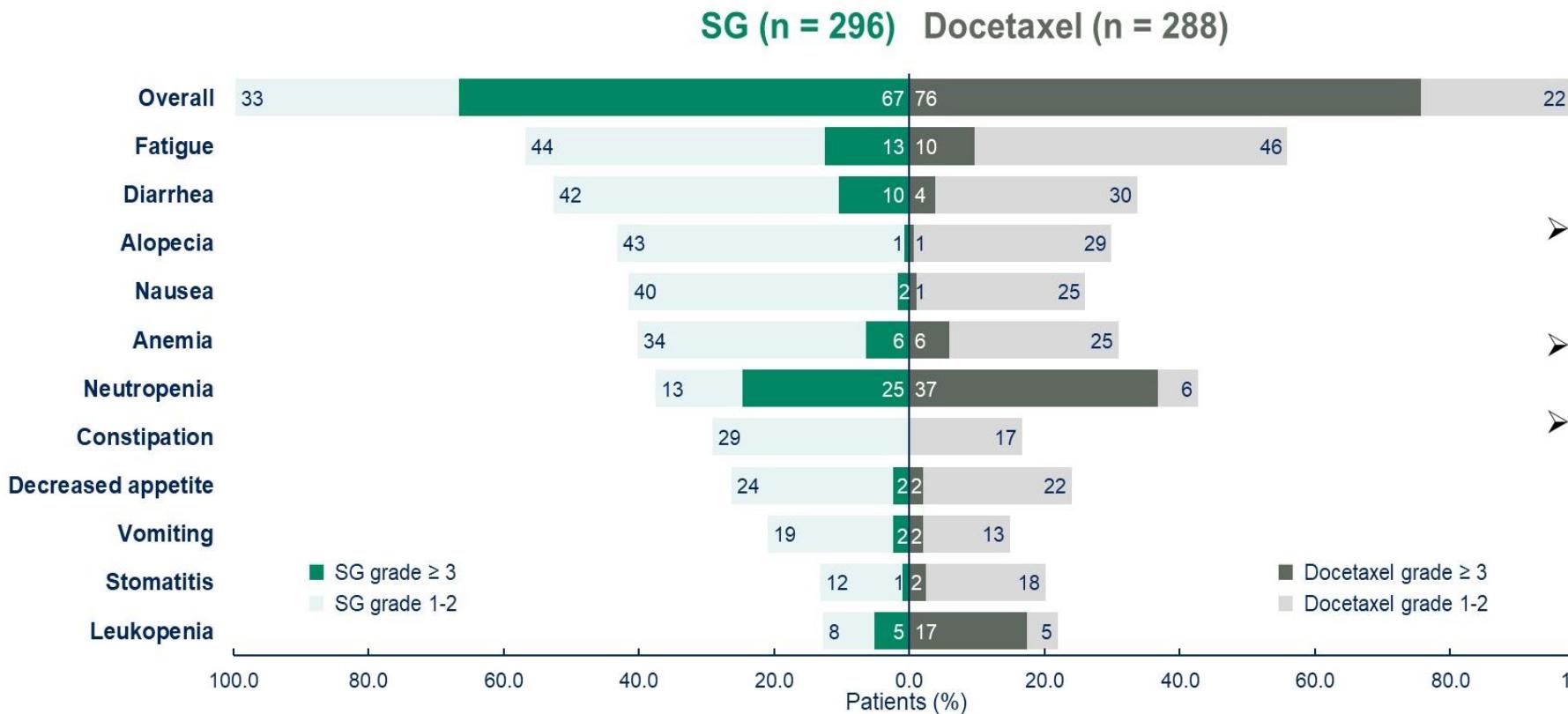


SG had a 3.5-month median OS improvement over docetaxel among subgroups with nonresponsive (SD/PD) disease

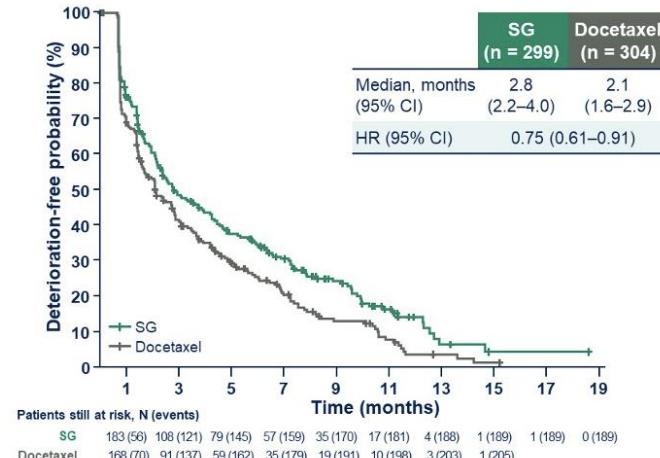


Treatment-Emergent Adverse Events

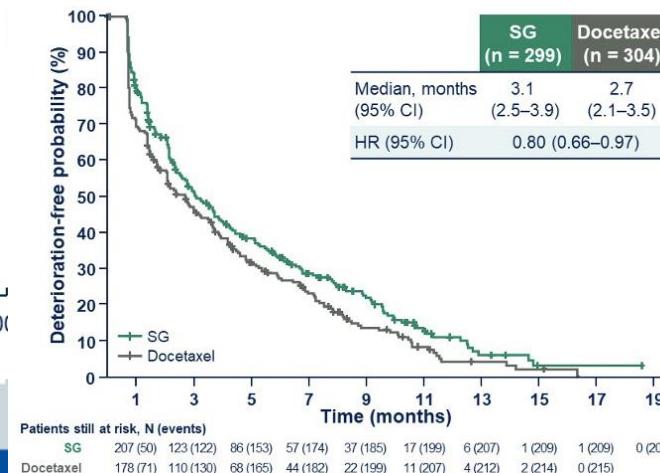
In ≥ 20% of patients receiving SG or docetaxel



TTD in shortness-of-breath domain



TTD in NSCLC-SAQ total score



TROP-2: OptiTROP-Lung01 - SACITUZUMAB TIMUROTECAN + ICB

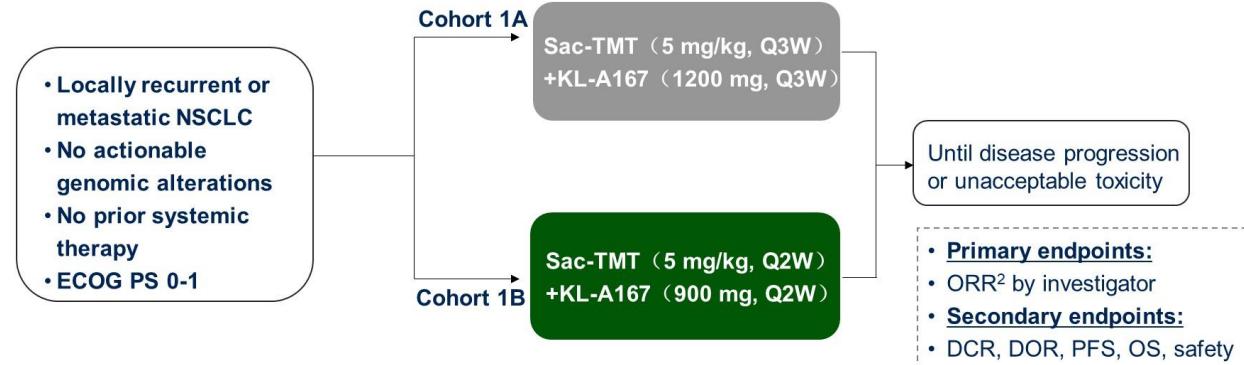
Sacituzumab Tirumotecan (sac-TMT; Also Known as SKB264/MK-2870) in Combination With KL-A167 (Anti-PD-L1) as First-Line Treatment for Patients With Advanced NSCLC From the Phase II OptiTROP-Lung01 Study

Wenfeng Fang,¹ Qiming Wang,² Ying Cheng,³ Yongzhong Luo,⁴ Xiujuan Qu,⁵ Haibo Zhu,⁶ Zhenyu Ding,⁷ XingYa Li,⁸ Lin Wu,⁴ Yan Wang,⁹ Sheng Hu,¹⁰ Enwen Wang,¹¹ AnWen Liu,¹² Yuping Sun,¹³ Yun Fan,¹⁴ Feng Ye,¹⁵ Kaihua Lu,¹⁶ Yalan Yang,¹⁷ Junyou Ge,¹⁷ Li Zhang¹

¹Sun Yat-sen University Cancer Center, Guangzhou, China; ²Henan Cancer Hospital, Zhengzhou, China; ³Jilin Cancer Hospital, Changchun, China; ⁴Hunan Cancer Hospital, Changsha, China; ⁵The First Hospital of China Medical University, Shenyang, China; ⁶Shanxi Cancer Hospital, Taiyuan, China; ⁷West China Hospital of Sichuan University, Chengdu, China; ⁸The First Affiliated Hospital of Zhengzhou University, Zhengzhou, China; ⁹Harbin Medical University Cancer Hospital, Harbin, China; ¹⁰Hubei Cancer Hospital, Wuhan, China; ¹¹Chongqing University Cancer Hospital, Chongqing, China; ¹²The Second Affiliated Hospital of Nanchang University, Nanchang, China; ¹³Shandong Cancer Hospital, Jinan, China; ¹⁴Zhejiang Cancer Hospital, Hangzhou, China; ¹⁵The First Affiliated Hospital of Xiamen University, Xiamen, China; ¹⁶Jiangsu Province Hospital, Nanjing, China; ¹⁷Sichuan Kelun-Biotech Biopharmaceutical Co., Ltd., Chengdu, China

OptiTROP-Lung01: non-randomized, phase 2 study¹

The first study evaluating sac-TMT + KL-A167 in locally recurrent or metastatic NSCLC without actionable genomic alterations.



¹NCT05351788

²Tumor assessment was performed every 6 weeks per RECIST v1.1

ECOG PS: Eastern Cooperative Oncology Group performance status; DCR: disease control rate; DOR: duration of response; ORR: objective response rate; OS: overall survival; PFS: progression-free survival; RECIST: Response Evaluation Criteria in Solid Tumors.



TROP-2: SACITUZUMAB TIMUROTECAN + ICB

45% non-squamous

54% non-squamous

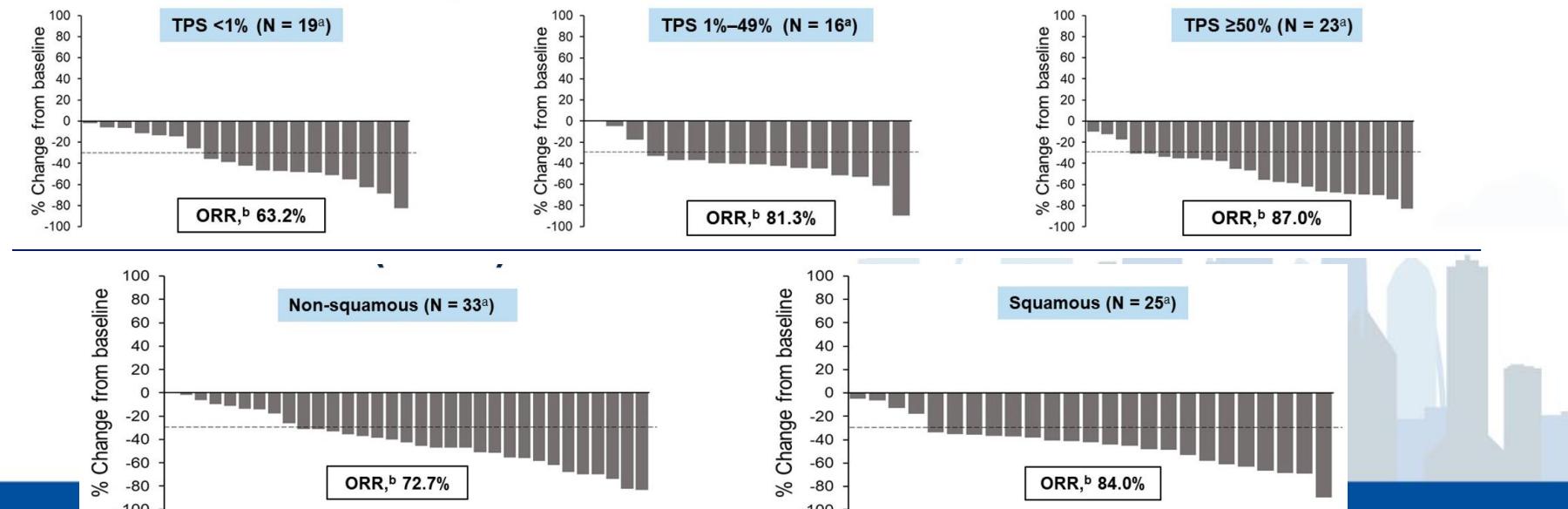
	Cohort 1A Sac-TMT(5 mg/kg Q3W) + KL-A167 (1200 mg Q3W) N = 40	Cohort 1B Sac-TMT(5 mg/kg Q2W) + KL-A167 (900 mg Q2W) N = 63
Median follow-up, mo	14.0	6.9
ORR, ^a n/N (%) [95% CI]	18/37 (48.6) [31.9, 65.6]	45/58 (77.6) [64.7, 87.5]
PR, n (%)	18 (48.6)	45 (77.6)
Confirmed PR, n (%)	16 (43.2)	40 (69.0)
SD, n (%)	17 (45.9)	13 (22.4)
PD, n (%)	2 (5.4)	0
DCR, ^b n/N (%)	35/37 (94.6)	58/58 (100.0)
Median DOR (95% CI), mo	NR (8.3, NE)	NR (6.6, NE)
Median PFS (95% CI), mo	15.4 (6.7, NE)	NR (8.4, NE)
6-mo PFS rate (95% CI), %	69.2 (51.2, 81.6)	84.6 (71.4, 92.1)

Efficacy in ITT population

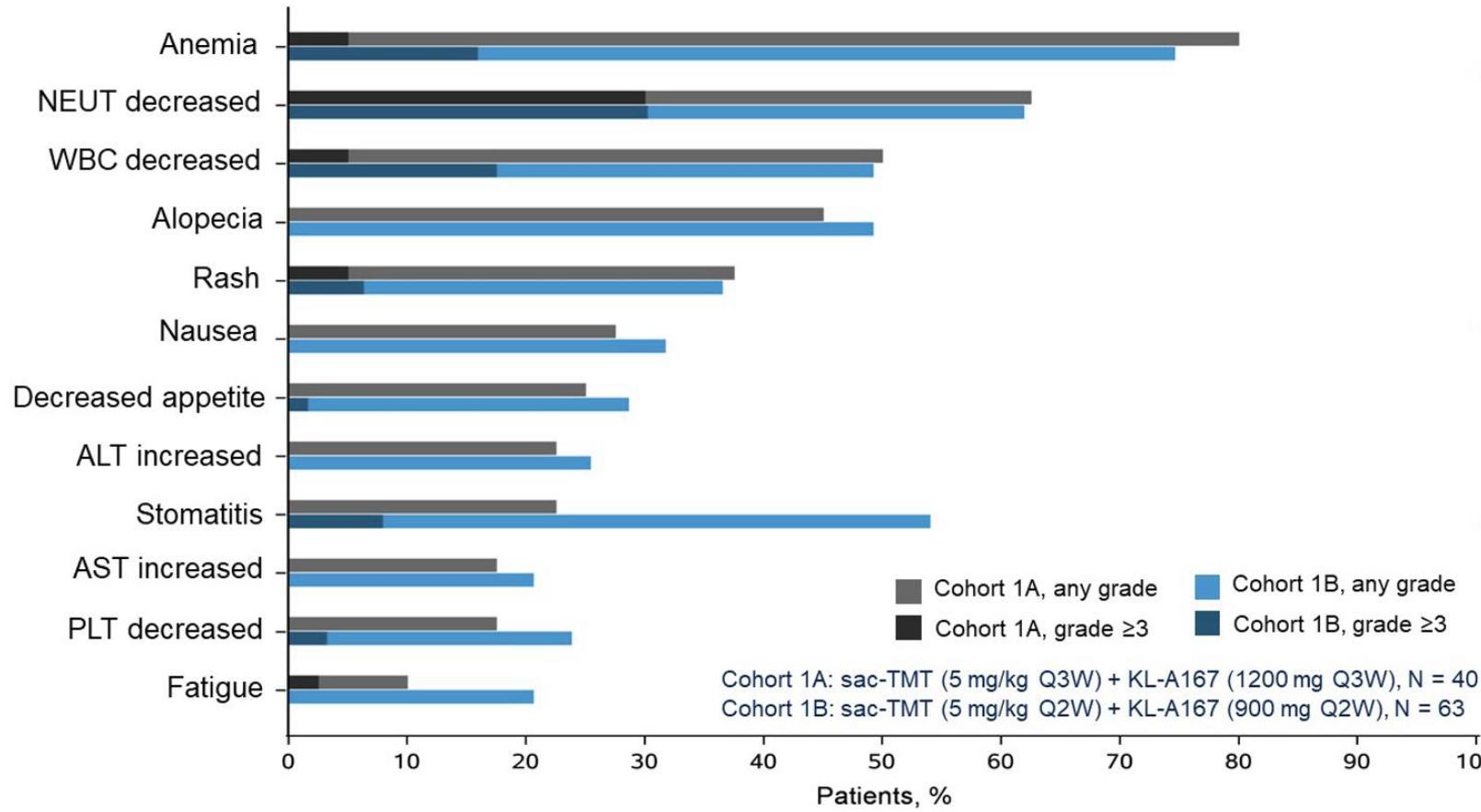
Efficacy by subgroups

- PD-L1 <1%/1-49%/≥ 50%

- Non-sq / Squamous



Toxicity facts



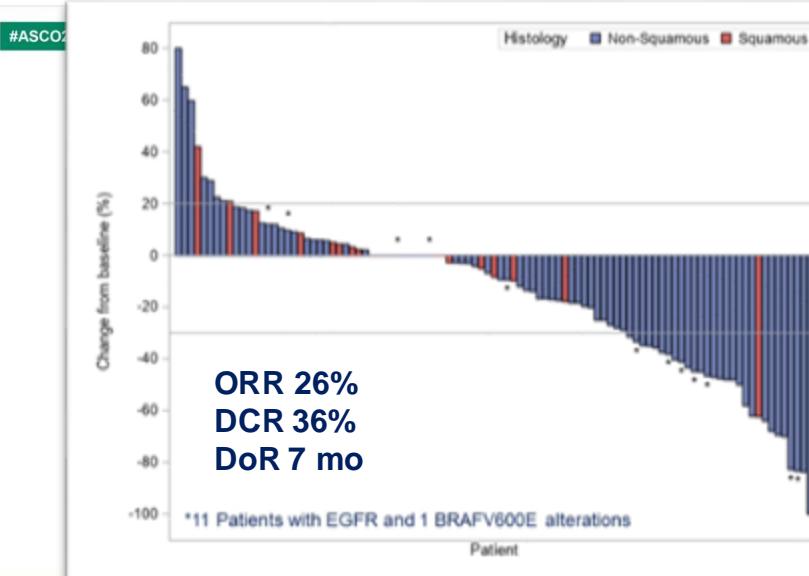
- ILD only in 1 patient of cohort B (G2)
- >= G3 TRAEs in cohort 1B 54%
- TRAEs leading to discontinuation were rare (3,2%)

3 phase III studies of SAC-TMT + pembrolizumab are ongoing in different settings

TROP-2: ICARUS-LUNG01 - DATOPOTAMAB DERUXTECAN

2024 ASCO[®]
ANNUAL MEETING**ICARUS-LUNG01: A phase 2 Study of Dato-DXd in patients with previously treated advanced NSCLC, with sequential tissue biopsies and biomarkers analysis to predict treatment outcome**D. Planchard^{1,2}, N. Cozio³, M. Wislez⁴, C. Chouaid⁵, H. Curcio⁶, S. Cousin⁷, C. Mascaux⁸, J. Cadrel⁹, M. Geier¹⁰, M. R. Ghigna¹¹, G. Nachabe¹², R. Zwirter¹³, R. Chiavarelli¹³, R. Cheikh-Hussin¹⁴, N. Corcos¹⁴, F. Mosele^{1,15}, F. André^{1,2,15}, G. Montagnac¹⁴, B. Pistilli^{1,14}

¹Department of Medical Oncology, Gustave Roussy, Villejuif, France; ²Faculty of Medicine, Paris-Saclay University, Paris, France; ³Department of Biostatistics and Epidemiology, Gustave Roussy, Villejuif, France; ⁴Department of Pulmonology-Thoracic Oncology, Cochin Hospital, Paris, France; ⁵Department of Pulmonology, Centre Hospitalier Intercommunal de Crétteil, Crétteil, France; ⁶Department of Medical Oncology, Centre François Baclesse, Caen, France; ⁷Department of Medical Oncology, Institut Bergonié, Regional Comprehensive Cancer, Bordeaux, France; ⁸Department of Pulmonology, Nouvel Hôpital Civil, Strasbourg University Hospital, Strasbourg, France; ⁹Sorbonne University, Assistance Publique-Hôpitaux de Paris, Hôpital Tenon, Service de pneumologie et Centre Constitutif des Maladies Pulmonaires Rares, Paris, France; ¹⁰Department of Medical Oncology, Regional University Hospital, Brest, France; ¹¹Department of Pathology, Gustave Roussy, Villejuif, France; ¹²Projects and Promotion Division, Gustave Roussy, Villejuif, France; ¹³Daiichi-Sankyo Inc, NJ, USA; ¹⁴INSERM U1279, Gustave Roussy, Villejuif, France; ¹⁵INSERM U981, Gustave Roussy, Villejuif, France

2024 ASCO
ANNUAL MEETING

ORR
Non-sq 30,5% / Sq 5,6%
EGFR/BRAF+ 50% / 23,2%

Study Design

Multi-center, single-arm, phase 2 study (NCT04940325)

- KEY ELIGIBILITY CRITERIA**
- NSCLC (stage IIIB, IIIC, or IV)
 - ECOG PS of 0 or 1
 - Progressed on prior 1-3 lines:
 - Without known mutations: anti PD-1/PDL-1 containing therapy and a platinum-doublet regimen
 - With known EGFR, BRAF, MET ALK, ROS1, RET, NTRK alterations: one line of an approved targeted agent and one platinum-doublet regimen
 - Asymptomatic brain metastases

Dato-DXd 6 mg/kg Q3W until PD or unacceptable toxicity

**Mandatory sample collection :**

- Tumor biopsy (1 Frozen + 3 FFPE)
- Blood (5 to 69 ml)

Primary Endpoint:

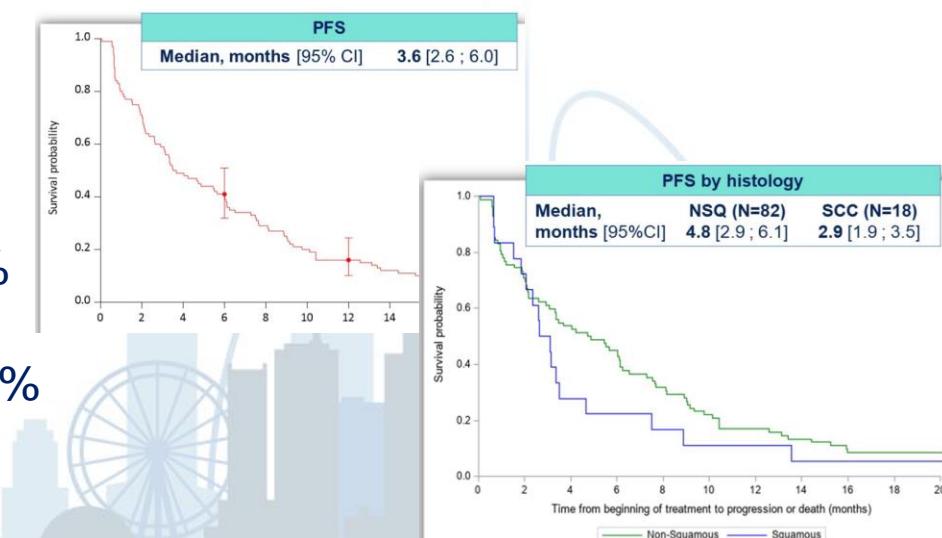
- Investigator-assessed ORR*

Secondary Endpoints:

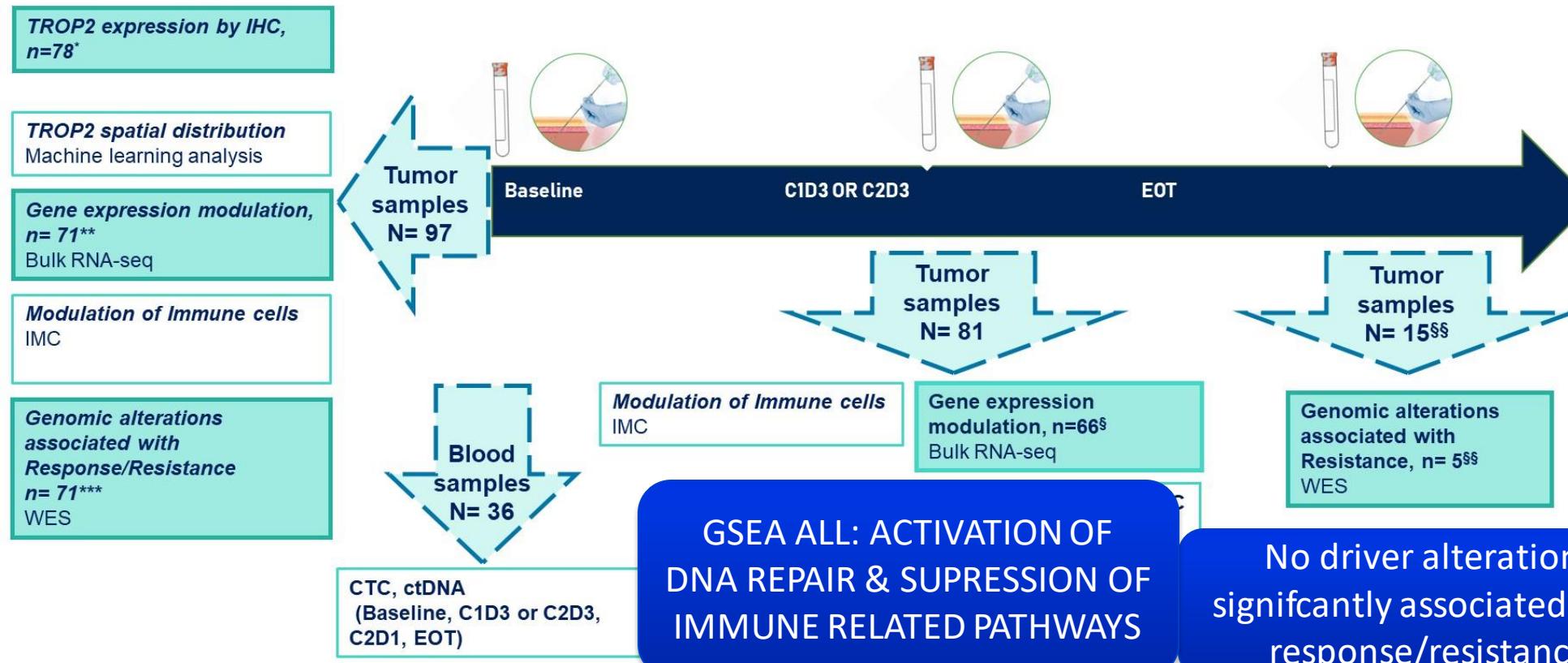
- DoR, PFS, CBR, OS
- Safety and tolerability

Exploratory Endpoints:

- Predictors of response/resistance
- Dynamics of TROP2 expression before and after treatment
- CTCs levels during treatment



Exploratory biomarker analyses



IHC: Immunohistochemistry, RNAseq: RNA Sequencing, IMC: Imaging Mass Cytometry, WES: Whole Exome Sequencing

cMET: LUMINOSITY PH II - TELISOTUZUMAB VEDOTIN

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Telisotuzumab Vedotin Monotherapy in Patients With Previously Treated c-Met–Overexpressing Non-Squamous EGFR Wildtype Advanced NSCLC: Primary Analysis of the LUMINOSITY Trial

D. Ross Camidge, MD, PhD¹, Jair Bar, MD MD⁴, Fedor Moiseenko, MD, PhD⁵, Elena I Nathalie Daaboul, MD⁹, Chunling Liu, MD Moskovitz, MD¹², Nuran Katgi, MD¹³, Pas Christine Ratajczak, PhD¹⁶, Martha

Eligible Patients

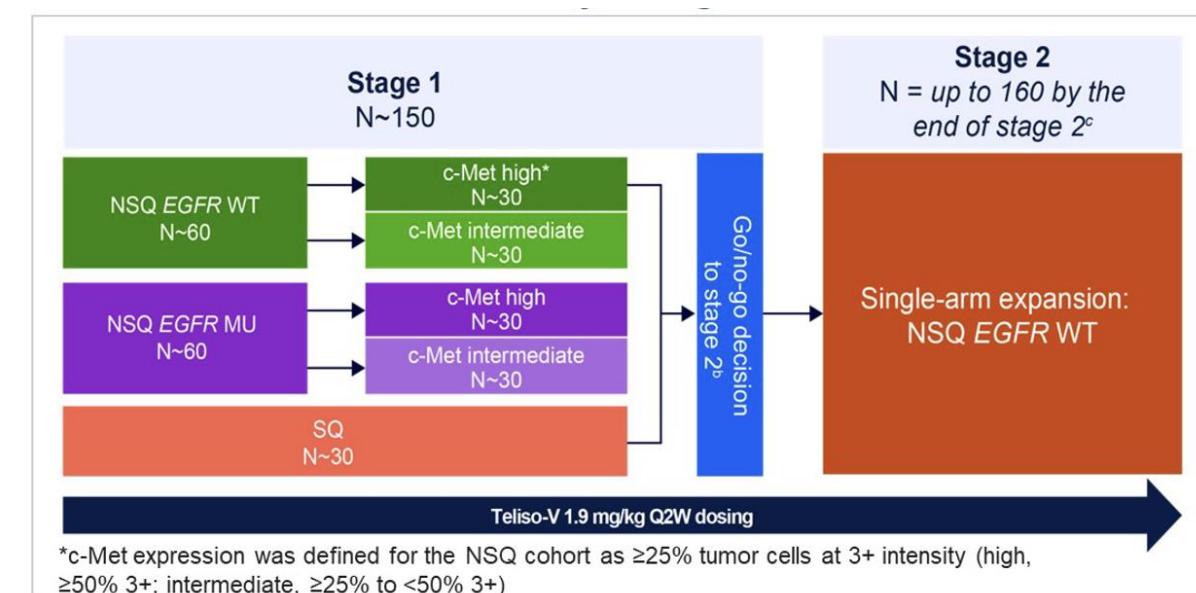
- ≥18 years
- Advanced/metastatic NSCLC
- c-Met OE by IHC^a
- Received ≤2 prior lines of systemic therapy in the advanced/metastatic setting, including cytotoxic CTx (≤1 line), immunotherapy (sequential or combined with CTx), and therapy targeting driver gene alterations (if eligible)

Primary Endpoint

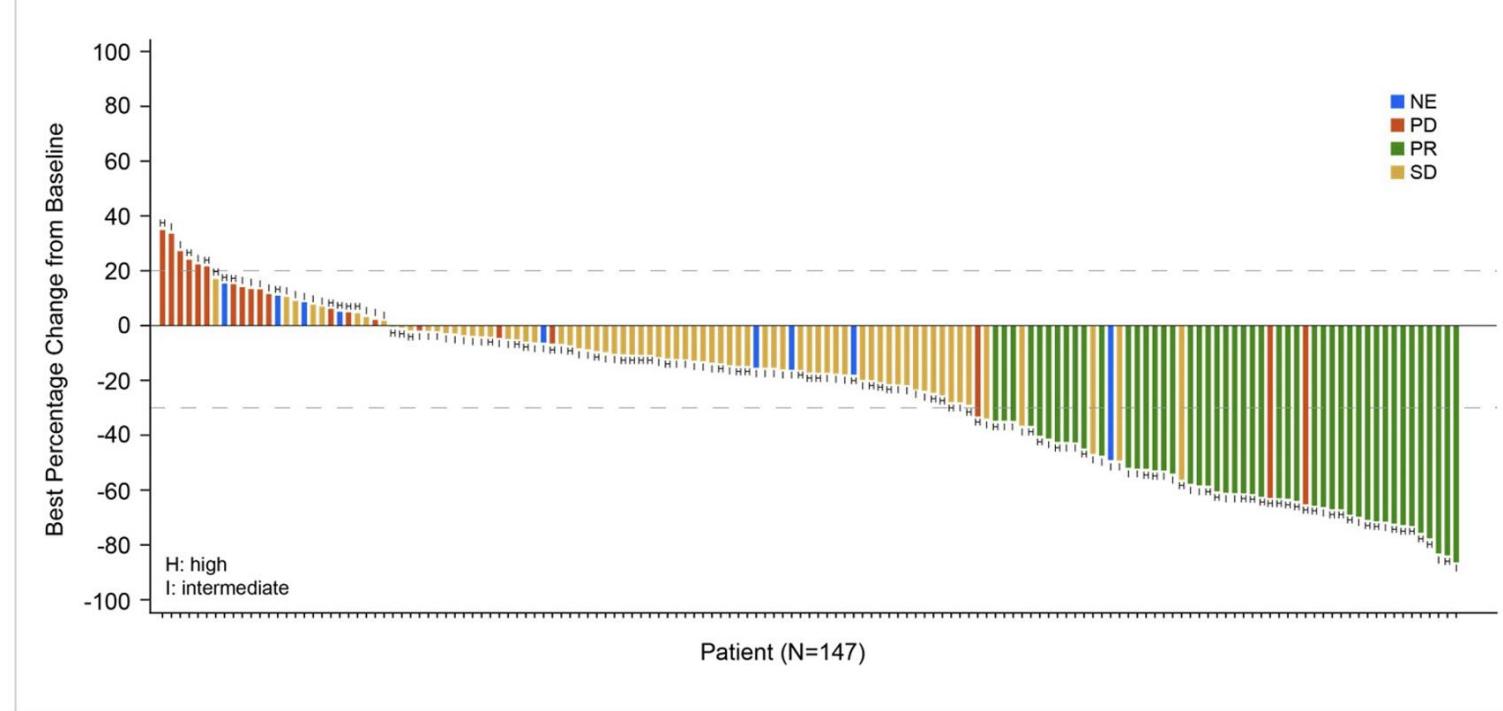
- ORR assessed by ICR per RECIST v1.1

Secondary Endpoints

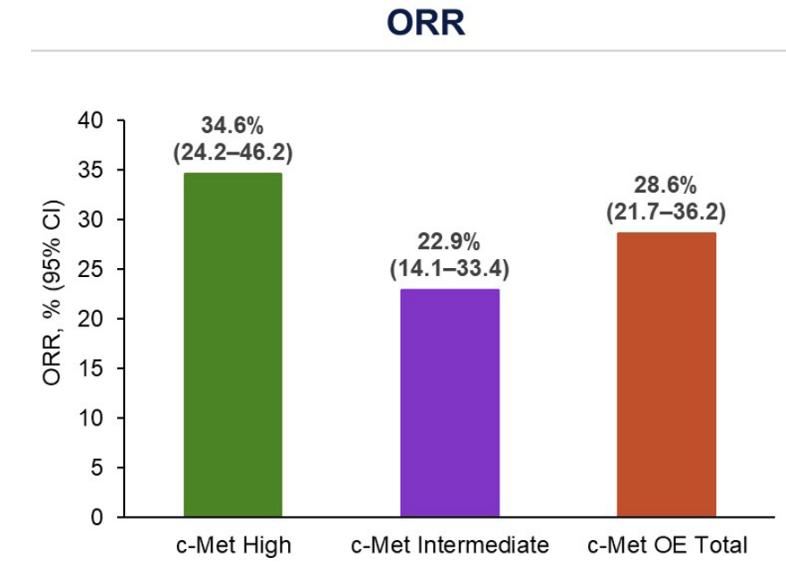
- DCR, DOR, PFS, and OS



- The SQ and EGFR MU NSQ cohorts met stopping criteria
- The EGFR WT NSQ cohort met criteria for expansion in stage 2

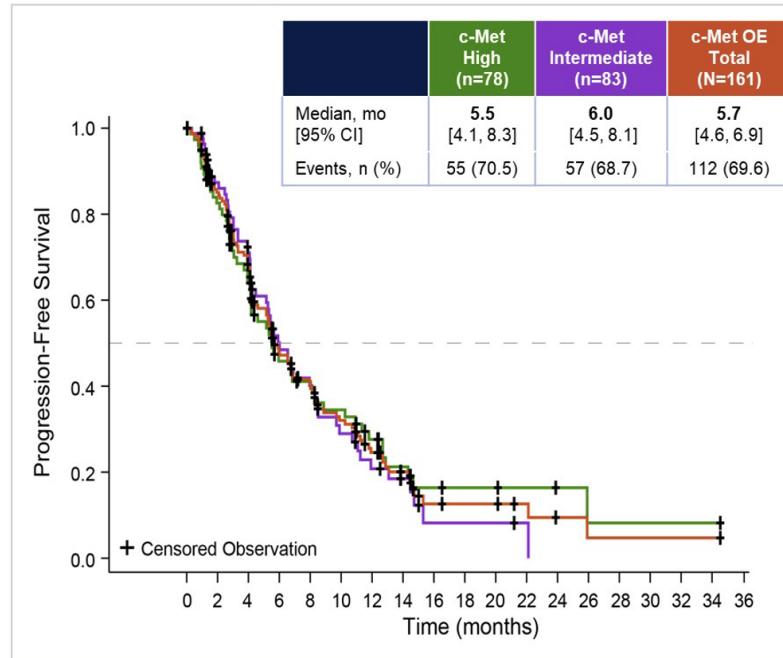
cMET: LUMINOSITY PH II - TELISOTUZUMAB VEDOTIN

- DCR was 60.3% (c-Met high), 57.8% (c-Met intermediate), and 59.0% (c-Met OE total)

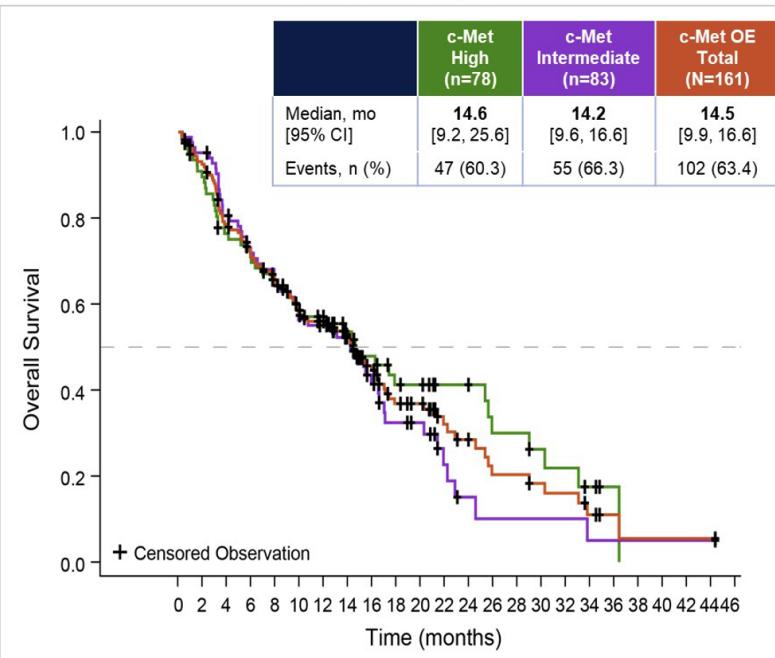


	c-Met High (n=78)	c-Met Intermediate (n=83)	c-Met OE Total (N=161)
Number of responders	27	19	46
Median DOR, months [95% CI]	9.0 [4.2, 13.0]	7.2 [5.3, 11.5]	8.3 [5.6, 11.3]
DOR ≥6 months, n (%)	17 (63.0)	9 (47.4)	26 (56.5)

Progression-Free Survival

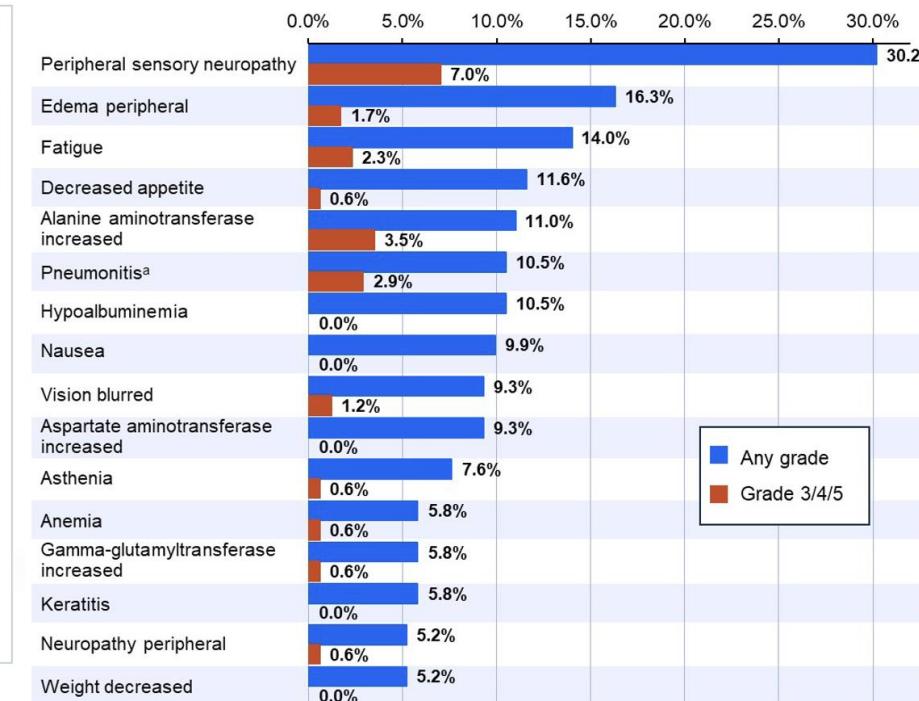


Overall Survival



- 66 (41.0%) of patients received a subsequent systemic therapy after Teliso-V discontinuation

TRAEs

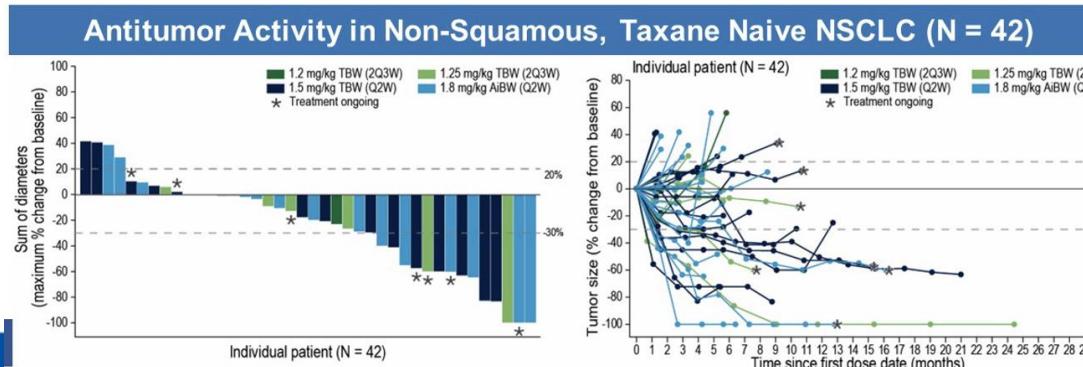
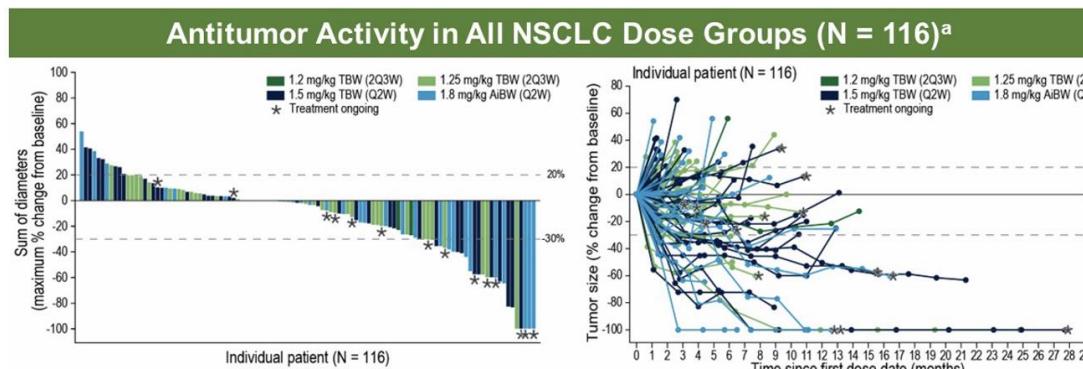
TRAEs \geq G3 27,9%

TRAEs leading to discontinuation 21,5%

Death 1,2%

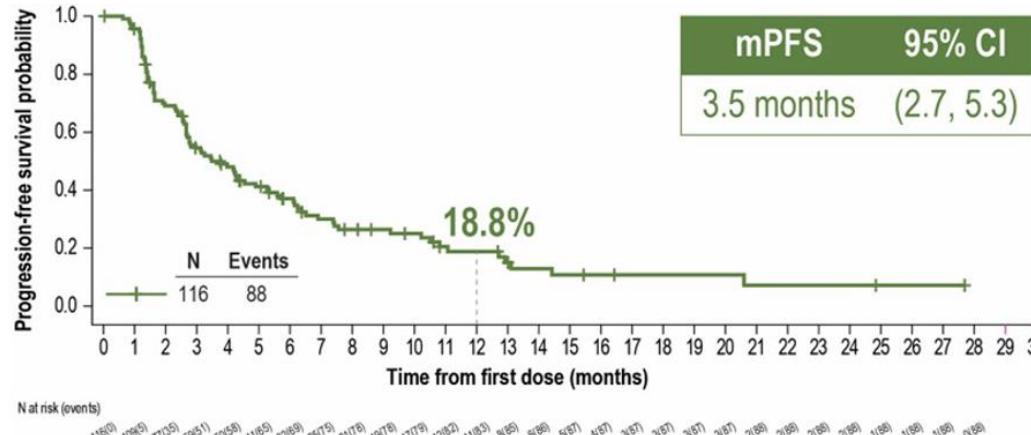
EFFICACY AND SAFETY OF SIGVOTATUG VEDOTIN, AN INVESTIGATIONAL ADC, IN NSCLC: UPDATED PHASE 1 RESULTS (SGNB6A-001)

Solange Peters, MD, PhD¹; Antoine Hollebecque, MD²; Kartik Sehgal, MD³; Juanita Suzanne Lopez, PhD, MRCP⁴; Emiliano Calvo, MD⁵; Afshin Dowlati, MD⁶; Bruno Bockorny, MD⁷; Cesar Augusto Perez, MD⁸; Rachel E. Sanborn, MD⁹; Amita Patnaik, MD, FRCPC¹⁰; Elisa Fontana, MD, PhD¹¹; Vladimir Galvao, MD, MSc¹²; Ed Kingsley, MD¹³; Gabriela Patilea-Vrana, PhD¹⁴; Tianhua Wang, PhD¹⁵; Scott Knowles, MD, PhD¹⁴; Sarina A. Piha-Paul, MD¹⁶

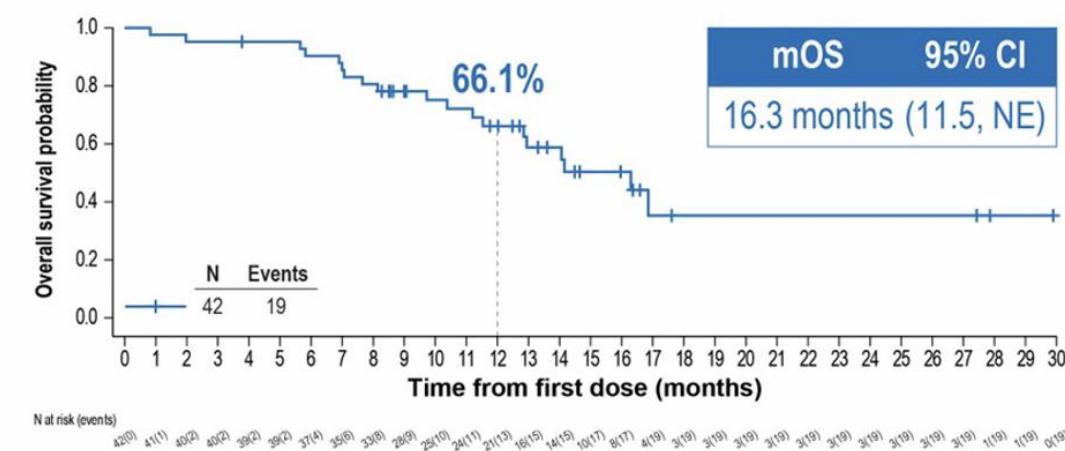
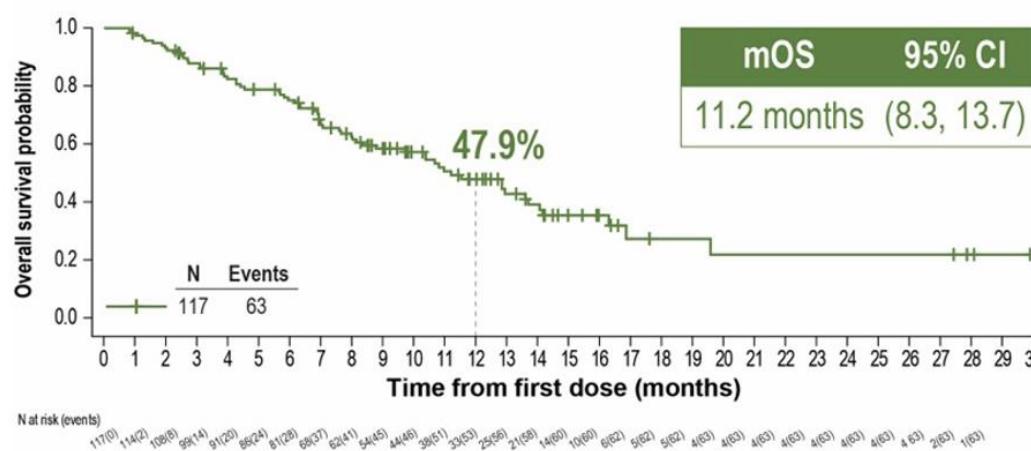
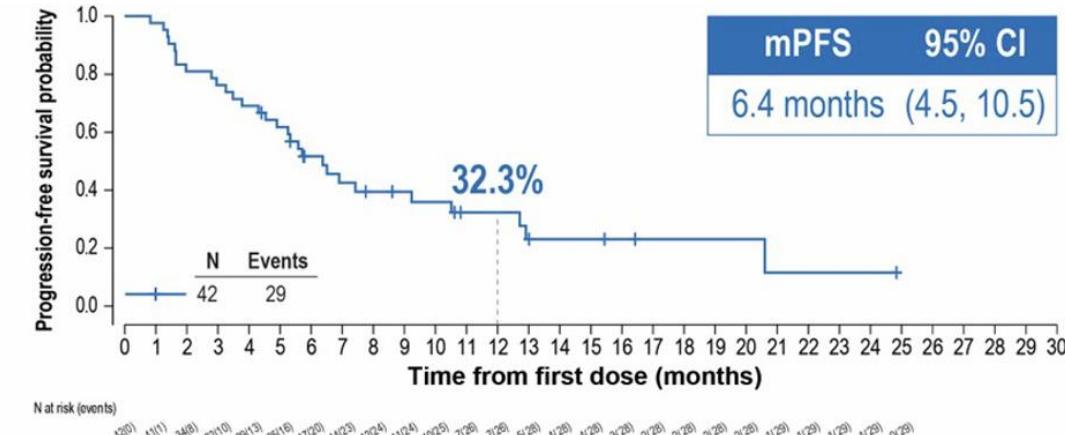


SV Monotherapy		
Part A Complete	Part B Ongoing Disease-specific expansion cohorts	
	NSCLC	
	Other Advanced Solid Tumors	
	1,8 mg/kg AiBW Q2W	
NSCLC efficacy evaluable set (N = 116)	NSCLC – all dose groups ^a (N = 116)	Non-squamous, taxane naïve NSCLC – all dose groups (N = 42)
Confirmed ORR, % (95% CI)	19.0 (12.3, 27.3)	31.0 (17.6, 47.1)
Confirmed BOR, ^b n (%)		
CR	3 (2.6)	2 (4.8)
PR	19 (16.4)	11 (26.2)
SD	58 (50.0)	21 (50.0)
PD	29 (25.0)	6 (14.3)
mDOR, months (range)	11.3 (2.4, 24.9+)	11.6 (2.4, 24.2+)
DCR, % (95% CI)	69.0 (59.7, 77.2)	81.0 (65.9, 91.4)

INTEGRIN BETA 6 - SIGVOTATUG VEDOTIN

NSCLC – All Dose Groups^a

Non-Squamous, Taxane Naïve NSCLC – All Dose Groups



Encouraging initial PFS and OS observed in patients with non-squamous, taxane-naïve NSCLC

INTEGRIN BETA 6 - SIGVOTATUG VEDOTIN

Treatment-Emergent Adverse Events

Constitutional symptoms, gastrointestinal-related TEAEs, and neuropathy were the most frequent types of TEAEs observed.

Dose escalation and expansion

Most common TEAEs, n (%)

- ≥15% Any grade^a
- ≥3% grade ≥3^b

NSCLC – all dose groups (N = 117)

1.8 mg/kg AiBW Q2W – NSCLC (N = 31)

Fatigue

Peripheral sensory neuro

Nausea

Diarrhea

Decreased appetite

Dyspnea

Alopecia

Cough

Weight decreased

Vomiting

Constipation

19 (16.2)

0

7 (22.6)

0

Anemia

13 (11.1)

5 (4.3)

2 (6.5)

1 (3.2)

Neutropenia

12 (10.3)

7 (6.0)

4 (12.9)

2 (6.5)

Hypomagnesemia

8 (6.8)

4 (3.4)

3 (9.7)

1 (3.2)

Pneumonia

8 (6.8)

4 (3.4)

3 (9.7)

2 (6.5)

Pulmonary embolism

6 (5.1)

6 (5.1)

1 (3.2)

1 (3.2)

Data cutoff: 06 Mar 2024

Adverse Events of Interest by Composite Term

TEAEs, n (%)	NSCLC – all dose groups (N = 117)	1.8 mg/kg AiBW Q2W – NSCLC (N = 31)
Peripheral neuropathy^a		
Any grade	51 (43.6)	16 (51.6)
Grade ≥3	0	0

Be6A Lung-01 Study (NCT06012435)

Key eligibility criteria

- Stage IIIB, IIIC, or Stage IV (M1a, M1b, or M1c) non-squamous 2L+ NSCLC
- No prior treatment with antimicrotubule agents

R 1:1
N=600Sigvotatug vedotin 1.8 mg/kg AiBW
28-day cycle (Q2W)Docetaxel
21-day cycle (Q3W)

Events identified using the following SMQ search strategies:

- ^a Peripheral neuropathy
- ^b Oropharyngeal conditions (excl neoplasms, infections and allergies)
- ^c Hematopoietic leukopenia
- ^d Cholestasis and jaundice of hepatic origin, Hepatic failure, fibrosis and cirrhosis and other liver damage-related conditions, Liver related investigations, signs and symptoms and Hepatitis, non-infectious
- ^e Interstitial lung disease

AiBW, adjusted ideal body weight; ILD, interstitial lung disease; NSCLC, non-small cell lung cancer; Q2W, every 2 weeks (Day 1 and Day 15 on a 28-day cycle); SMQ, standardized MedDRA query; TEAE, treatment-emergent adverse event.

1.8 mg/kg Q2W subset

TEAEs ≥ G3 35,5%

TEAEs leading to discontinuation 12,9%

No deaths

OLIGOMETASTATIC

PROSPECTIVE PHASE II/III of LCT IN IO ERA



NRG
ONCOLOGY

Advancing Research. Improving Lives.™



NRG-LU002: Randomized Phase II/III Trial Of Maintenance Systemic Therapy Versus Local Consolidative Therapy (LCT) Plus Maintenance Systemic Therapy For Limited Metastatic Non-Small Cell Lung Cancer (NSCLC)

Puneeth Iyengar, MD, PhD, Chen Hu, PhD, Daniel Gomez, MD, Robert Timmerman, MD, Charles Simone, MD, Clifford Robinson, MD, David Gerber, MD, Saiama N Waqar, MBBS, MSCI, Jessica S Donington, MD, Stephen G Swisher, MD, Michael Weldon, MSc, Jackie Wu, PhD, Bryan Faller, MD, Sawsan Rashdan, MD, Kevin L Stephans, MD, Pamela Samson, MD, Kristin A Higgins, MD, Ryan Nowak, MD, Jessica A Lyness, MS, Jeffrey D Bradley, MD

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ASCO 2024



OLIGOMETASTATIC

PROSPECTIVE PHASE II/III of LCT IN IO ERA

Metastatic NSCLC

0-3 metastatic lesions
AFTER 4 cycles of
induction

SBRT to all lesions
(hypofractionated
RT/surgery to primary
permitted)

Patients with metastatic NSCLC having completed at least 4 cycles or courses* of first-line/induction systemic therapy	Histology: Squamous vs. Non-squamous	Arm 1: Maintenance systemic therapy alone** Arm 2: SBRT/radiation or SBRT/radiation and Surgery to all sites of metastases (0-3 discrete sites) and/or irradiation (SBRT or hypofractionated RT) of the primary site followed by maintenance systemic therapy.
Restaging studies reveal no evidence of progression and limited metastatic disease (0-3 discrete extracranial sites), all of which must be amenable to SBRT/radiation +/- Surgery A minimum of one disease site (metastasis or primary) needs to be present after first-line/induction systemic therapy and treatable with local consolidative therapy	Systemic Therapy: Immunotherapy-containing Induction Regimens vs. Cytotoxic Chemotherapy Only Induction Regimens**	R A N D O M I Z E If a metastatic site is best treated with hypofractionated radiation, this will be permitted if SBRT or surgery not indicated *** As noted in Section 5

PH.II PRIMARY OBJECTIVE: PFS

PH.III PRIMARY OBJECTIVE: OS

SECONDARY OBJECTIVES: QoL/ctDNA

NRG-LU002
218 patients

**68 sites enrolled
at least 1 pt**

2:1 randomization in favor of
LCT arm.

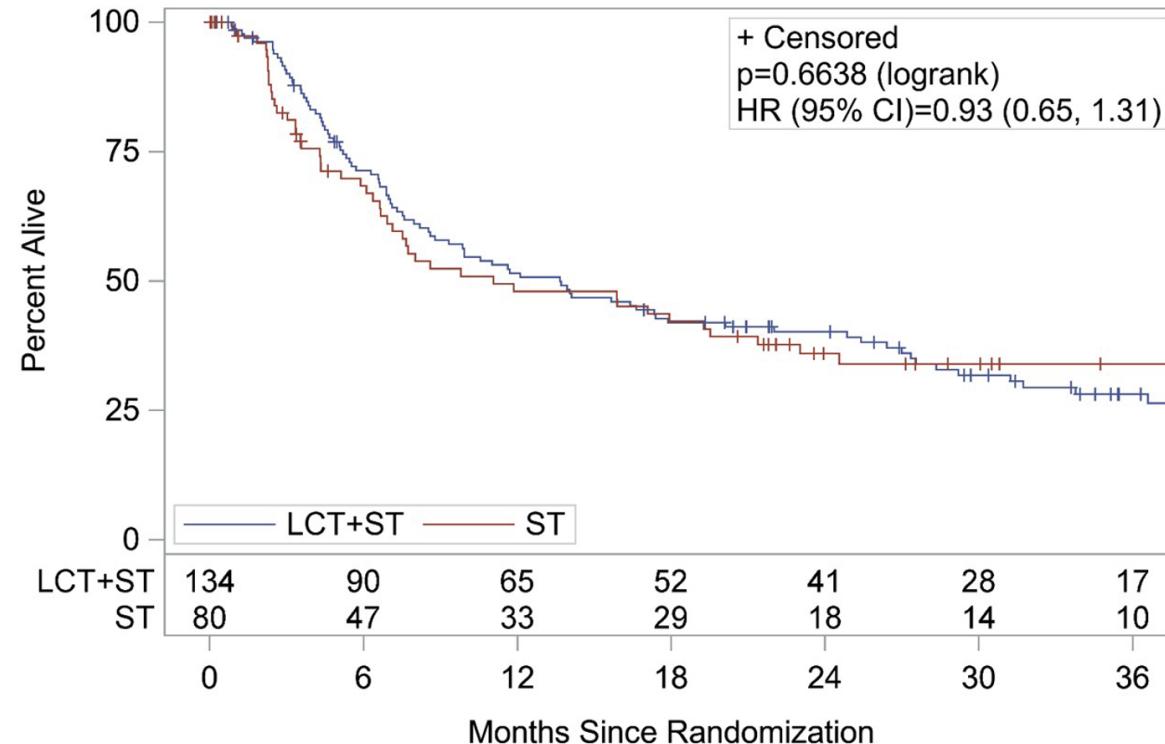
77% non-squamous NSCLC

90% immunotherapy-containing regimen

OLIGOMETASTATIC

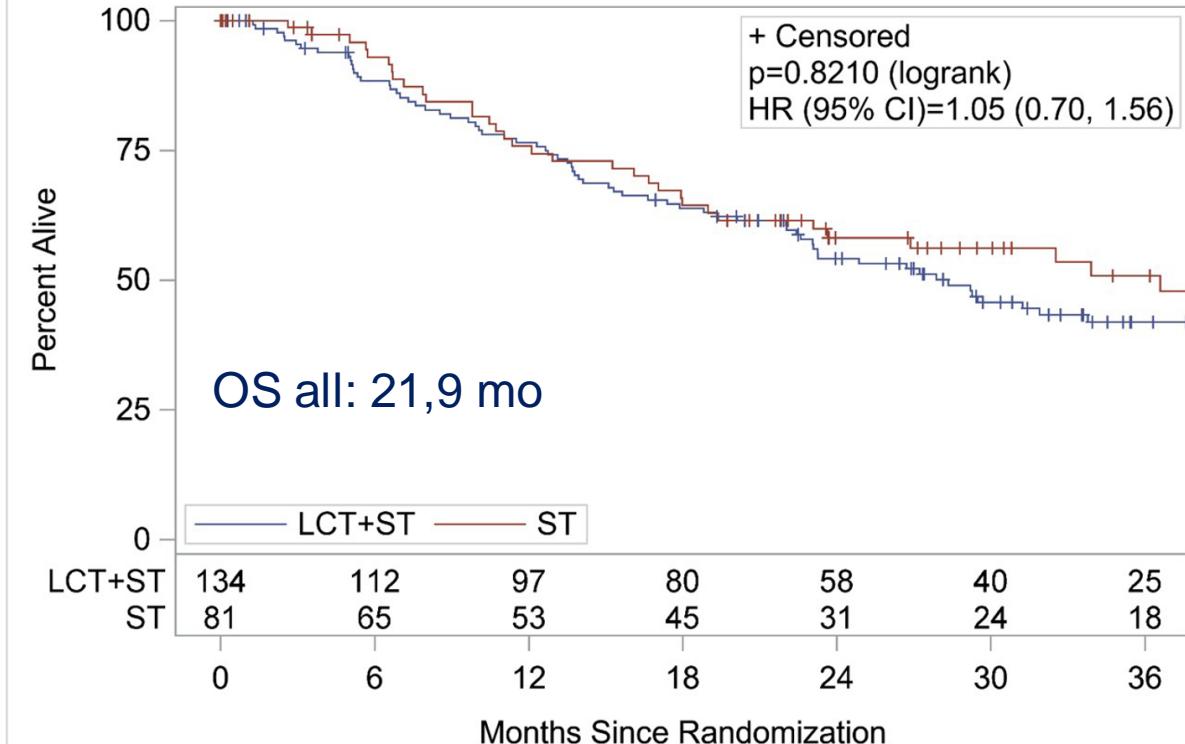
PROSPECTIVE PHASE II/III of LCT IN IO ERA

PFS



	Fail/Total	1yr PFS Rate (95% CI)	2yr PFS Rate (95% CI)
ST	49 / 80	48.0% (35.9, 59.0)	35.9% (24.8, 47.2)
LCT+ST	89 / 134	51.5% (42.5, 59.8)	40.1% (31.5, 48.6)

OS



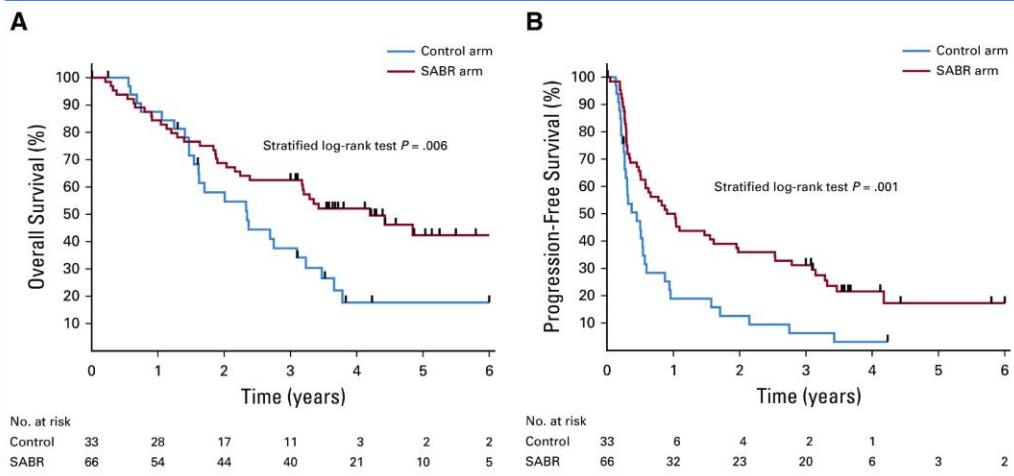
	Fail/Total	1yr OS Rate (95% CI)	2yr OS Rate (95% CI)
ST	37 / 81	75.8% (64.0, 84.2)	58.1% (45.6, 68.8)
LCT+ST	70 / 134	76.5% (68.1, 82.9)	54.1% (44.9, 62.5)

HR were similar in the group of patients who received immunotherapy

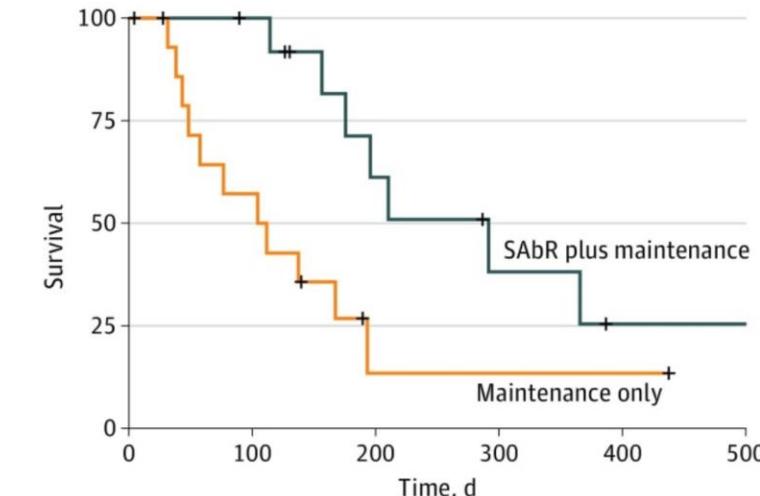
OLIGOMETASTATIC

PREVIOUS POSITIVE PH II RANDOMIZED TRIALS

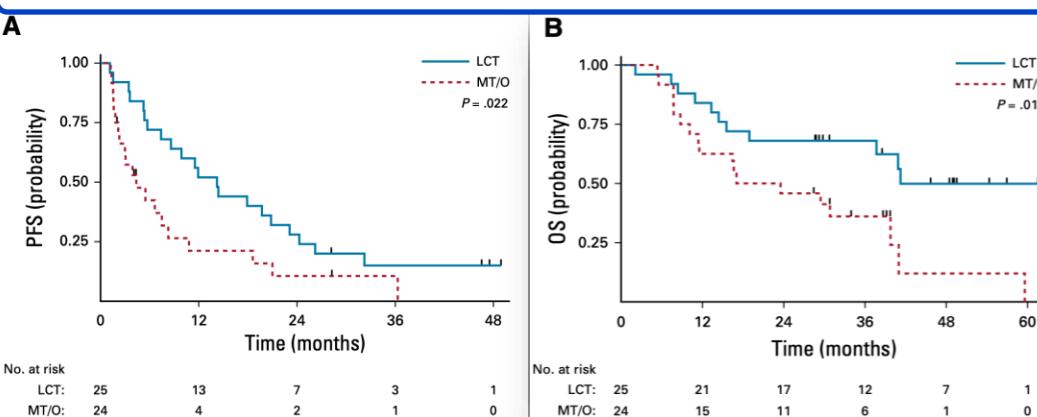
SABR-COMET



IYENGAR



“OLIGOMEZ”



No. at risk

SAbR plus
maintenance
Maintenance only

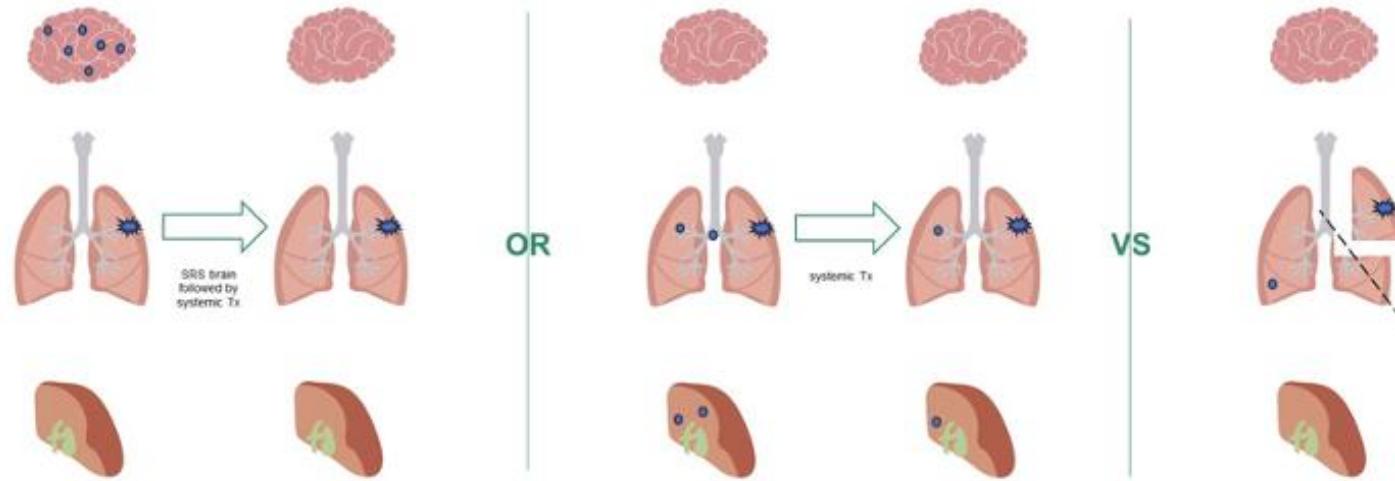
14	12	6	3	1
15	8	1	1	1

OLIGOMETASTATIC

NRG-LU002

Why negative???

- Many patients with less favorable disease for LCT?

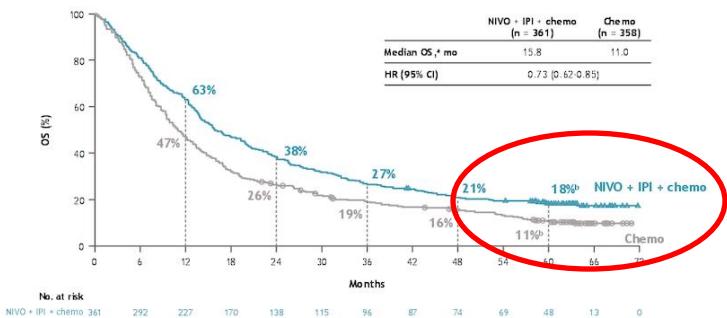


- Were there imbalances in treatment arms?
 - < pts in the LCT received maintenance (93 vs 87%)
 - > pts with favorable immunotherapy biomarkers in control arm (PD-L1)
- No need of LCT with long-term immunotherapy benefits?

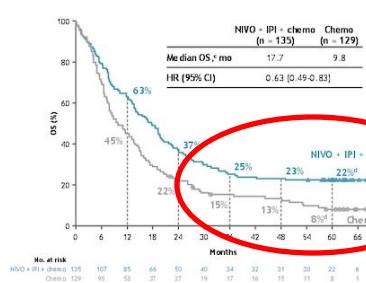
NSCLC 1L IMMUNOTHERAPY

CheckMate 9LA: 5-year-OS update

A. All randomized



B. PD-L1 < 1%



C. PD-L1 ≥ 1%

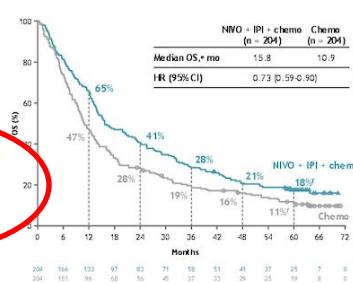


Figure 4. OS in patients who discontinued NIVO + IPI + chemo due to TRAEs^a

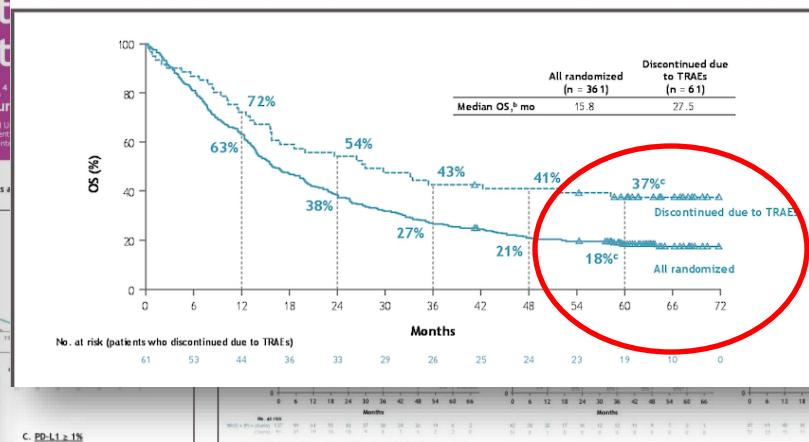
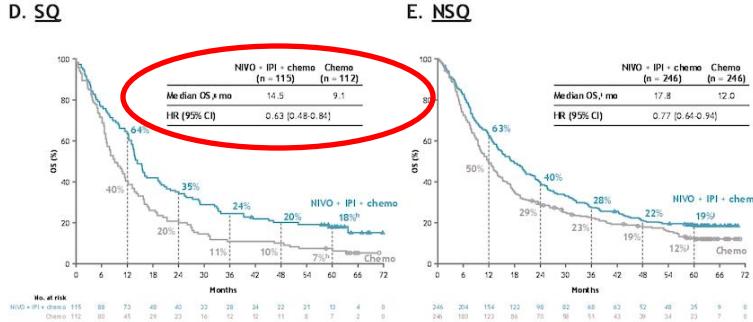


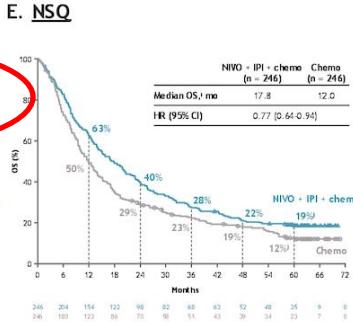
Table 2. Efficacy in 5-year survivors

	NIVO + IPI + chemo (n = 48)	Chemo (n = 30)
Median PFS, months (95% CI)	NR (44.8-NR)	16.8 (7.1-NR)
HR (95% CI)	0.52 (0.26-1.02)	
5-year PFS rate, % (95% CI)	55 (39-69)	38 (19-58)
ORR, n (%) [95% CI]	35 (73) [58-85]	18 (60) [41-77]
Median DOR, months (95% CI)	NR (51.1-NR)	35.8 (9.6-NR)
Ongoing response at 5 years, % (95% CI)	59 (35-76)	46 (20-69)
Median TFI ^a , months (95% CI)	NR (52.2-NR)	9.1 (1.8-NR)
TFI rate, ^a % (95% CI)		
36 months	85 (72-93)	44 (25-62)
48 months	81 (55-90)	44 (25-62)
60 months	72 (47-87)	35 (15-56)

D. SQ



E. NSQ



Immunotherapy vs

8560

Hideaki Mizutani,¹² David P. Carbone,¹³

¹Universitarios Regionales y Virgen de la Victoria, IBIMA, Málaga, Spain;
²China - Sarcoma Cancer Center, Saitama, Japan;
³Principe, Madrid, Spain

Safety summary

- In 5-year survivors, patients had been off immunotherapy treatment for ≥ 3 years, and safety of all drugs was consistent with previous reports.
- The incidence of grade 3-4 immune-mediated adverse events (IMAEs) in 5-year survivors in the NIVO + IPI + chemo arm was generally low, regardless of the number of IPI doses received.

Table 3. IMAEs^a among 5-year survivors in the NIVO + IPI + chemo arm by number of IPI doses received^b

Patients, n (%)	1-5 doses of IPI (n = 12)		6-15 doses of IPI (n = 12)		16-18 doses of IPI (n = 24)	
	Any grade	Grade 3-4	Any grade	Grade 3-4	Any grade	Grade 3-4
Non-endocrine IMAE	Rash	2 (17)	2 (17)	5 (42)	0	2 (8)
	Diarrhea/colitis	0	0	4 (33)	1 (8)	0
	Hepatitis	3 (25)	3 (25)	1 (8)	1 (8)	0
	Pneumonitis	2 (17)	1 (8)	1 (8)	1 (8)	0
	Nephritis and renal dysfunction	1 (8)	0	1 (8)	1 (8)	0
	Hypothyroidism	1 (8)	0	3 (25)	0	11 (46)
Endocrine IMAE	Hyperthyroidism	2 (17)	0	3 (25)	0	4 (17)
	Adrenal insufficiency	1 (8)	1 (8)	1 (8)	1 (8)	3 (12)
	Thyroiditis	1 (8)	0	1 (8)	0	0

PD-L1 expression = 1/0 or SQ histology

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- Carbone DP, et al. *J Immunother Cancer* 2014;2(1):e000899.
- OPDIVO (nivolumab) [package insert]. Princeton, NJ, USA: Bristol-Myers Squibb; March 2014.
- OPDIVO (nivolumab) [summary of product characteristics]. Dublin, Ireland: Bristol-Myers Squibb (EDG); March 2014.

Acknowledgments

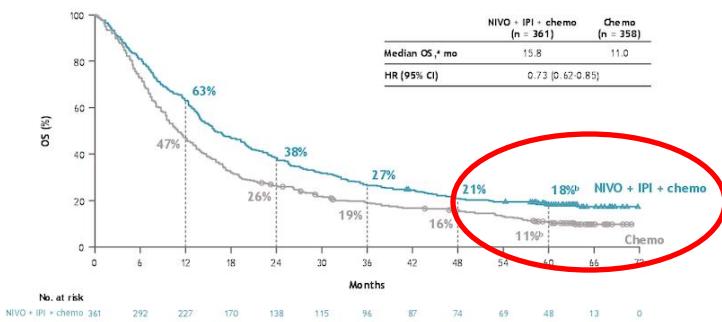
- The patients and families who made this study possible.
- The clinical study teams who participated.
- DaiCo, an Agilent Technologies, Inc. company, Santa Clara, CA, USA, for collection and analysis of the IMAEs using the IMAE 2.0 software.
- Bristol Myers Squibb (Princeton, NJ, USA) and One Pharmaceutical Company (Tokyo, Japan).
- The authors were supported by Bristol-Myers Squibb.
- All authors contributed to and approved the presentation; writing and editorial support were provided by Christine Brileka, PhD, Adel Choudhury, PharmD, and Jennifer G. Hwang, BA, from GECP.
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NSCLC 1L IMMUNOTHERAPY

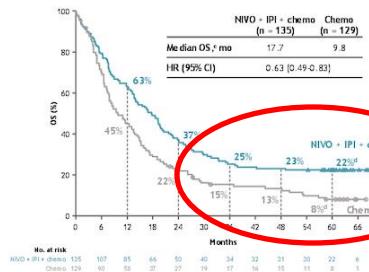
CheckMate 9LA: 5-year-OS update

A. All randomized

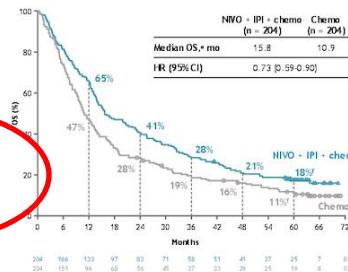


18% vs 11%
 ITT
 HR 0,73

B. PD-L1 < 1%

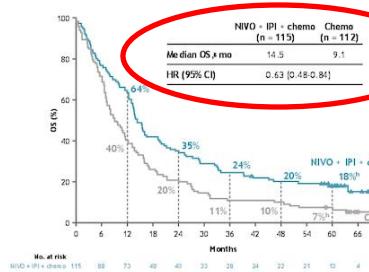


C. PD-L1 ≥ 1%

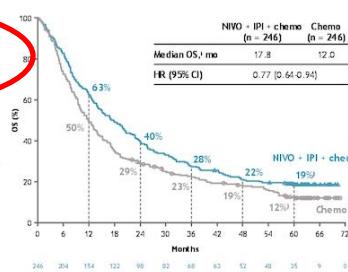


22% vs 8%
 PD-L1 <1%
 HR 0,63

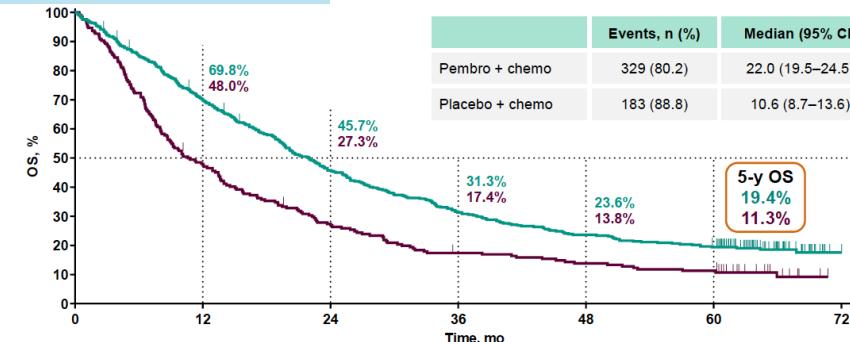
D. SQ



E. NSQ

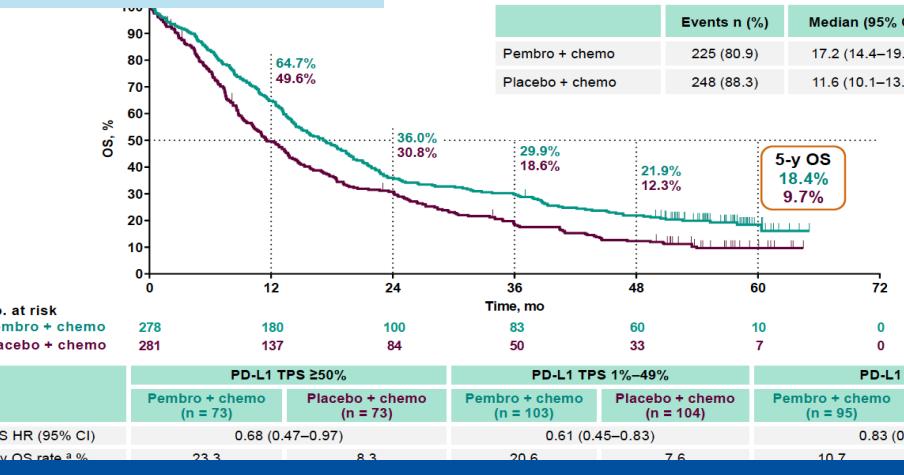


KeyNote 189



19,4% vs 11,3%
 HR 0,6

KeyNote 407



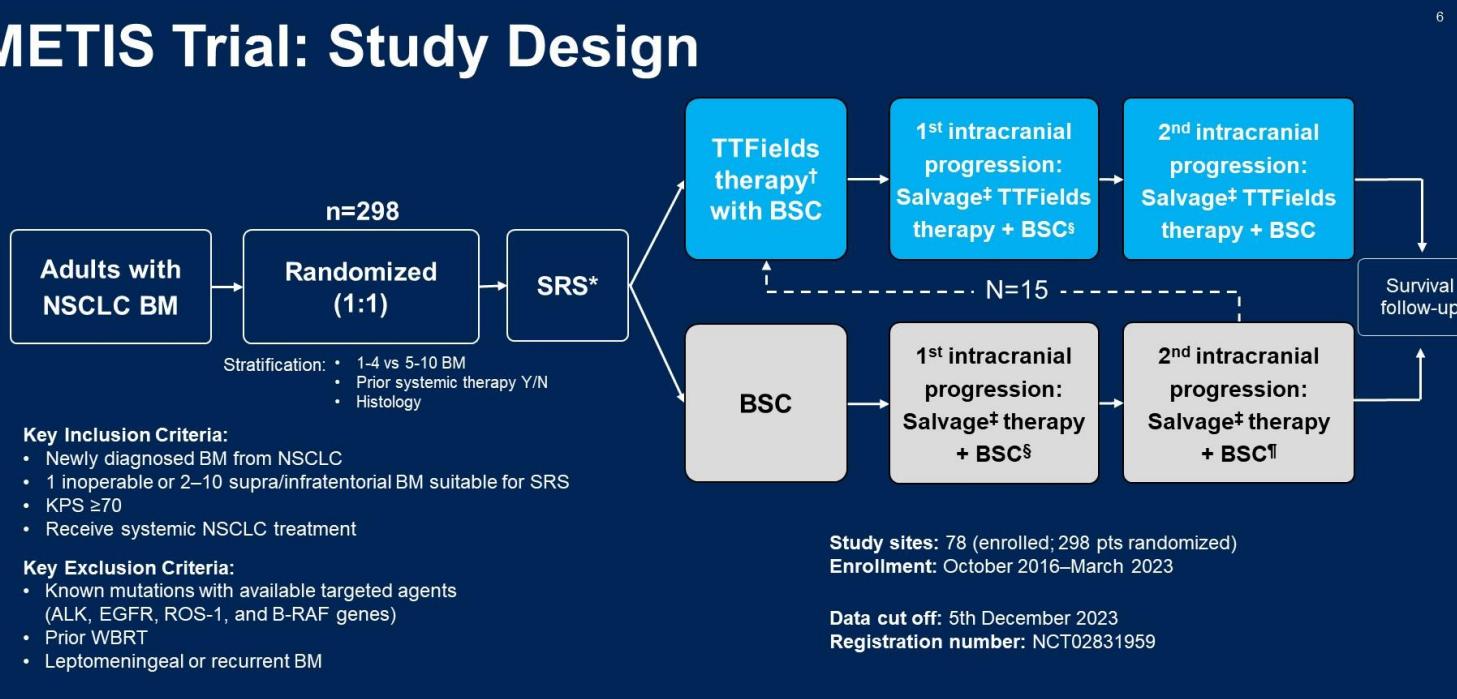
18,4% vs 9,7%
 HR 0,71

10,7% vs 13,1%
 HR 0,83 ns
 PD-L1 <1%

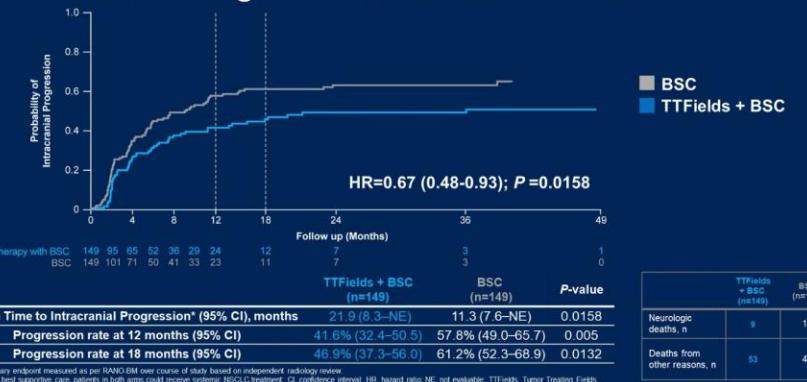
TTFields

METIS TRIAL: NSCLC with brain metastasis

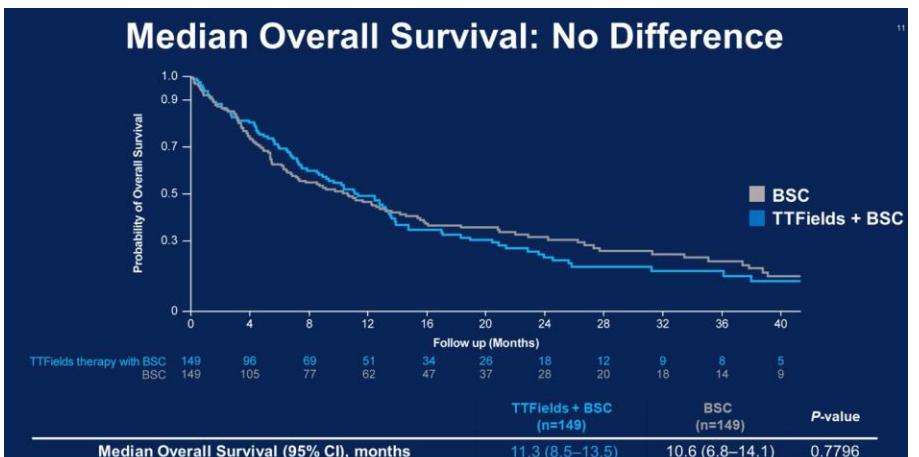
METIS Trial: Study Design



Primary Endpoint: Time to First Intracranial Progression or Neurologic Death Favors TTFields Arm



Median Overall Survival: No Difference



EQ-5D Deterioration-Free Survival & Time to Deterioration Favor TTFields Arm

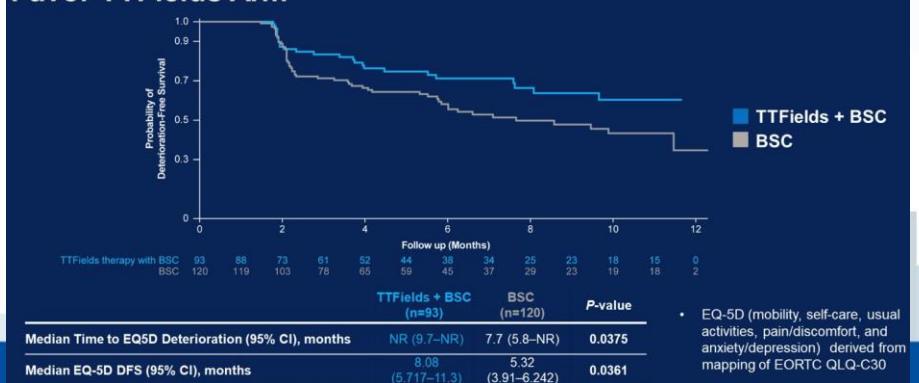
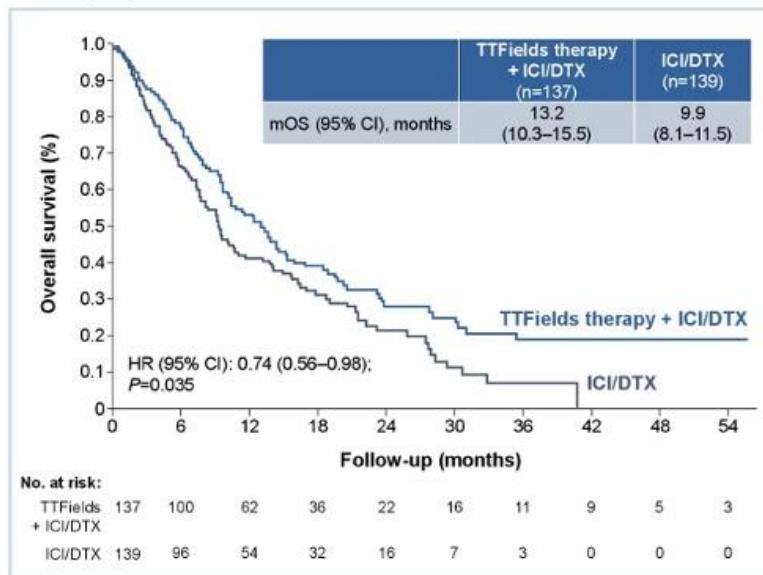


Figure 2. LUNAR (EF-24): OS in the intention-to-treat population⁶



LUNAR-2: Pivotal, Randomized, Open-Label Study of Tumor Treating Fields (TTFields, 150 kHz) Concomitant with Pembrolizumab and Platinum-Based Chemotherapy for the Treatment of Metastatic Non-Small Cell Lung Cancer

Michael Eaton,¹ Manuel Cobo,² Li Zhang,³ Maximilian Hochmair,⁴ Corey J. Langer⁵

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TPS8665

Background

- Tumor Treating Fields (TTFields) are electric fields that disrupt processes critical for cancer cell viability and tumor progression^{1–3}
- TTFields therapy is delivered noninvasively to the tumor site via a portable medical device and two pairs of skin-placed arrays on the torso (Figure 1)^{4,5}
- TTFields therapy is approved for the treatment of glioblastoma and pleural mesothelioma in combination with standard therapies^{5,6}

Figure 1. The TTFields device components



- The pivotal, phase 3 LUNAR study (EF-24; NCT02973789) found a statistically significant and clinically meaningful 3.3-month improvement in overall survival (OS) with TTFields therapy when added to an immune checkpoint inhibitor (ICI) or docetaxel vs an ICI or docetaxel alone (Figure 2) in patients with metastatic non-small cell lung cancer (mNSCLC) progressing on/after platinum-based chemotherapy⁶
- The OS benefit was especially pronounced in the subgroup assigned an ICI by the investigator (median OS 18.5 vs 10.8 months [HR 0.63, P=0.03])⁶
- During the study, there were no added systemic toxicities and no clinically significant difference in quality of life between treatments⁶
- Given the OS benefit seen for TTFields therapy in a second-line setting, particularly in patients receiving an ICI, it is relevant to evaluate this treatment modality in a front-line setting in treatment-naïve patients with mNSCLC initiating combination chemotherapy and ICI⁶

Figure 2. LUNAR (EF-24): OS in the intention-to-treat population⁶

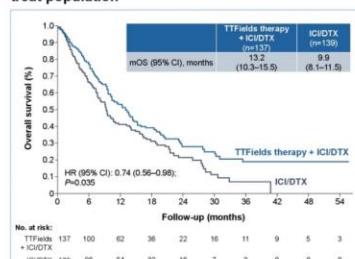
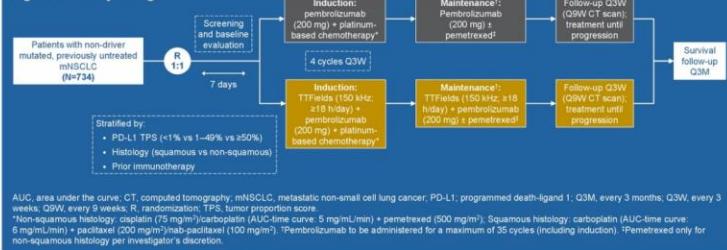


Figure adapted from Leal et al., 2023⁶, copyright (2023), with permission from Elsevier.

Study design

- LUNAR-2 (EF-44; NCT06216301) is a global, pivotal, randomized study assessing the efficacy and safety of TTFields therapy concomitant with pembrolizumab and platinum-based chemotherapy in patients with mNSCLC⁷ (Figure 3)

Figure 3. Study design



AUC, area under the curve; CT, computed tomography; mNSCLC, metastatic non-small cell lung cancer; PD-L1, programmed death-ligand 1; Q3W, every 3 weeks; QW, every 4 weeks; R, randomization; TPS, tumor proportion score.
^aNon-squamous histology: cisplatin (75 mg/m²)/carboplatin (AUC-time curve: 5 mg·min/m²) + paclitaxel (500 mg/m²). Squamous histology: carboplatin (AUC-time curve: 6 mg·min/m²) + paclitaxel (200 mg/m²)/nab-paclitaxel (100 mg/m²). ^bPembrolizumab to be administered for a maximum of 35 cycles (including induction). ^cPemetrexed only for non-squamous histology per investigator's discretion.

Table 1. Select inclusion/exclusion criteria

Inclusion criteria	Exclusion criteria
• Histologically/cytologically confirmed stage IV NSCLC	• Mixed small-cell and NSCLC histology
• No prior systemic treatment for mNSCLC	• Untreated/symptomatic CNS metastases and/or carcinomatous meningitis
• Evaluable (measurable or non-measurable) disease in the thorax per RECIST v1.1	• Eligible/planning to receive targeted therapy for NSCLC with any of the following oncogenes: EGFR sensitizing mutation, ALK translocation, ROS1, RET targetable gene rearrangement, METex14 skipping mutation, NTRK1/2 gene fusion directed therapy
• ≥18 years old (≥22 years in the US)	• Active autoimmune disease requiring systemic treatment in the past 2 years
• ECOG PS 0–1	

ALK, anaplastic lymphoma kinase; CNS, central nervous system; ECOG PS, Eastern Cooperative Oncology Group performance score; EGFR, epidermal growth factor receptor; METex14, MET exon 14; mNSCLC, metastatic non-small cell lung cancer; NSCLC, non-small cell lung cancer; NTRK1/2, neurotrophic tropomyosin receptor kinase; RECIST, Response Evaluation Criteria in Solid Tumors.

Table 2. Select study endpoints

Endpoints	Primary*
Primary*	<ul style="list-style-type: none"> • OS and PFS per RECIST v1.1 as assessed by a BICR • OS and PFS (by histology and PD-L1 TPS) per RECIST v1.1 as assessed by BICR • ORR, DoR, and DCR (all per RECIST v1.1 as assessed by BICR and by investigator)
Secondary	<ul style="list-style-type: none"> • PFS rates at 6, 12, 24 and 36 months per RECIST v1.1 as assessed by BICR • 1-, 2-, and 3-year survival rates • Safety profile
Exploratory	<ul style="list-style-type: none"> • OS and PFS according to in-field or out-of-field location of the disease

BICR, blind independent central review; DCR, disease control rate; DoR, duration of response; ORR, objective response rate; OS, overall survival; PD-L1, programmed death-ligand 1; PFS, progression-free survival; RECIST, Response Evaluation Criteria in Solid Tumors; TPS, tumor proportion score.

*Primary endpoints are independent of each other.

Sample size and statistical considerations

- Assuming approximately 12% drop-out rate, a sample size of 734 patients is estimated to achieve 80% power and detect a hazard ratio of 0.75 for OS using a 2-sided log-rank test (with an overall alpha of 0.05)

Study status

- LUNAR-2 is currently enrolling patients and has a planned enrollment of 734 patients at approximately 130 sites globally⁷

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1. Mar EJ et al. *Cancer Res*. 2016;76(2):265–275. 2. Gobin M et al. *Cancer Res*. 2015;15:18046. 3. Viochin T et al. *Cancer Immunol Immunother*. 2020;69(7):1191–1204. 4. Optune® Instructions for Use. Novocure. US 2023. Accessed May 2024. 5. Optune Lumen™ Instructions for Use for Unresectable Malignant Pleural Mesothelioma. Novocure. US 2021. Accessed May 2024. 6. Leal T et al. *Lancet Oncol*. 2023;24:1000–1017. 7. Clinical Trials.gov. <https://clinicaltrials.gov/ct2/show/NCT06216301>. Accessed May 2024.

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KEY-HOME MESSAGES

- **ADC**

- TROP-2 ADC's in 2nd line not superior to SoC CT (Docetaxel)
- (TROP-2) ADC's + ICB combo in 1L NSCLC promising!!!
- Need more studies of biomarkers to better understand MoA and resistance
- cMET directed Teliso-V: promising results in IHC+ pts, Will beat Docetaxel?
- IB6 directed ADC: promising results in ph1. Tryng to beat Docetaxel irrespective of IHC

- **Oligometastatic disease**

- First randomized ph II/III study evaluating LCT after 1L IO-based systemic régimen NEGATIVE (no PFS Benefit)
- Further investigation required

- **1L immunotherapy**

- Confirmation of double IO + short CT regimen as an efficient alternative in advanced NSCLC with similar proportion of long survivors, with higher proportion in PD-L1 negative pts

- **TTFields**

- METIS trial: Time to intracranial progression and QoL benefit. No OS benefit

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lung cancer
research

