

Inmunoterapia en enfermedad avanzada en CPNCP.

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CAMPASS: Benmelstobart in combination with anlotinib vs pembrolizumab in the first-line treatment of PD-L1 positive, advanced non-small cell lung cancer (aNSCLC): A randomized, blind, multicenter phase 3 study

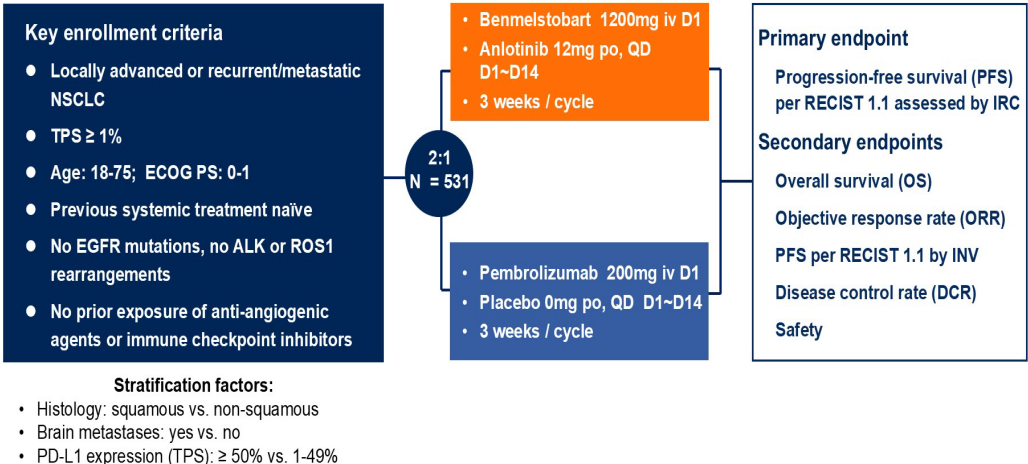
Authors: Baohui Han¹, Kai Li², Runxiang Yang³, Yongzhong Luo⁴, Wei Zuo⁵, Chao Xie⁶, Qingshan Li⁷, Xingxiang Xu⁸, Qiang Liu⁹, Yan Yu¹⁰, Qiming Wang¹¹, Tienan Yi¹², Yongxing Chen¹³, Hongmei Sun¹⁴, Xuhong Min¹⁵, Huaqiu Shi¹⁶, Hualin Chen¹⁷, Jianhua Shi¹⁸, Jinsheng Shi¹⁹, Junzhen Gao²⁰

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Methods

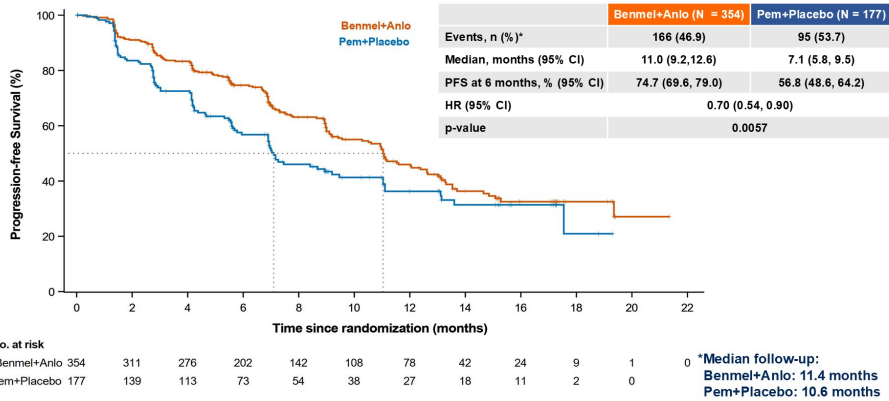
Randomized, blind, multicenter phase 3 study (NCT04964479)



Abbreviation: IRC: independent review committee, INV: investigator, TPS: tumor proportion score

Results

Primary endpoint: PFS by IRC



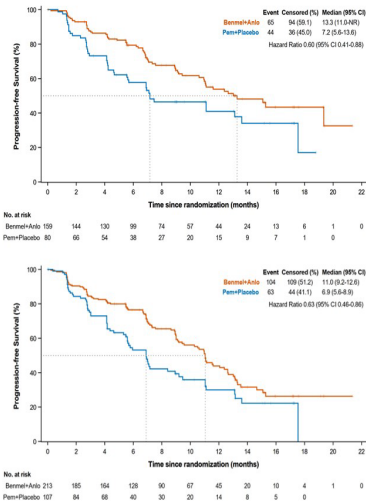
Benmelstobart in combination with anlotinib vs pembrolizumab in the 1L

- Key findings: Efficacy & Safety
 - mPFS subgroup analysis: Squamous mPS 11 mo (HR 0.6); PD-L1 ≥ 50% 13.3 mo (HR 0.63)
 - Higher ORR 57 vs 40%
 - Safety: higher rates of grade ≥ 3 toxicities, but no increased rates of IRAEs or discontinuation

Results

Abstract: LBA8502

Key Pre-specified PFS Subgroup Analyses



TPS ≥ 50%	Benmel+Anlo	Pem+Placebo
N (%)	159 (44.9)	80 (45.2)
Median, months (95% CI)	13.3 (11.0, NE)	7.2 (5.6, 13.6)
HR (95% CI)	0.60 (0.41, 0.88)	

Squamous	Benmel+Anlo	Pem+Placebo
N (%)	213 (60.2)	107 (60.5)
Median, months (95% CI)	11.0 (9.2, 12.6)	6.9 (5.6, 8.9)
HR (95% CI)	0.63 (0.46, 0.86)	

Benmelstobart in combination with anlotinib vs pembrolizumab in the 1L

Strengths

- Anlotinib is already an approved drug in China
- Well-designed phase 3 study with positive primary endpoint of PFS
- Manageable safety profile; AEs consistent with VEGF inhibition

Limitations

- Impact on OS to be determined
- No predictive biomarker for the combination
- Comparator arm is not a SOC for all PD-L1 levels
- Study conducted in China only

2025 ASCO
ANNUAL MEETING

Plasma-guided adaptive first-line
chemoimmunotherapy for non-small
cell lung cancer (NSCLC)

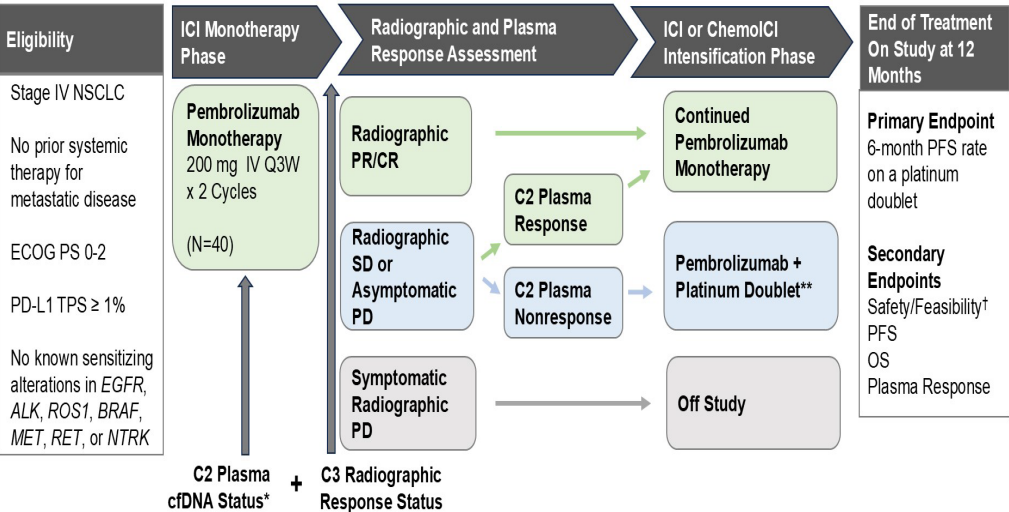
Julia K. Rotow, Grace Heavey, Mizuki Nishino, Shail Maingi, Christopher S. Lathan, Umit Tapan, Alexandra S. Bailey, Zihan Wei, Emanuele Mazzola, Diandra Ocot, Geoffrey R. Oxnard, David A. Barbie, Pasi A. Jänne, Cloud P. Paweletz, Michael L. Cheng

Julia Rotow, MD
Clinical Director, Lowe Center for Thoracic Oncology, Dana-Farber Cancer Institute
Assistant Professor, Harvard Medical School

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KNOWLEDGE CONQUERS CANCER

Plasma response-guided adaptive treatment of advanced NSCLC
receiving first-line pembrolizumab



*Plasma Response defined as ≥50% reduction in plasma ctDNA max AF for patients with high shed [≥0.5% max AF] at baseline or continued low shed [<0.5% max AF] for patients with low shed at baseline, as measured by amplicon-based plasma NGS

**NSQ: Carboplatin AUC 5 + Pemetrexed 500 mg/m2 Q3W x 4 cycles followed by Pemetrexed 500 mg/m2 Q3W; SQ: Carboplatin AUC 6 + Paclitaxel 200 mg/m2 Q3W x 4 cycles, with concurrent pembrolizumab 200 mg IV Q3W to end of study treatment

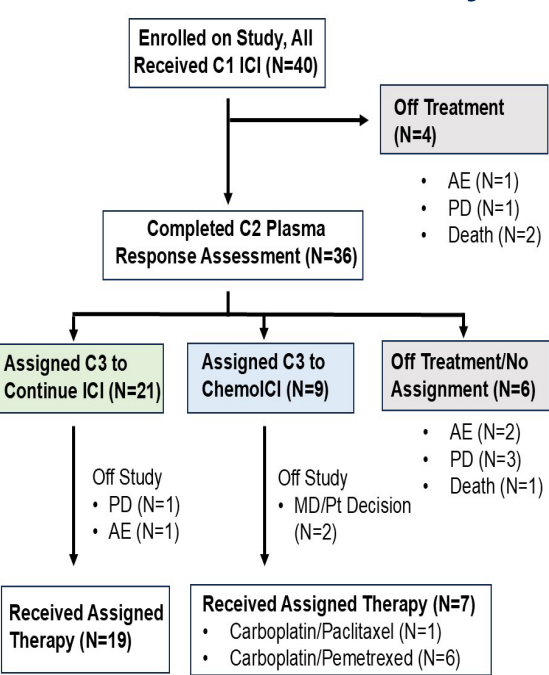
†Feasibility defined as completion of the integrated plasma response and C3 imaging assessment, with one-sided upper 90% binomial confidence interval >82.5%

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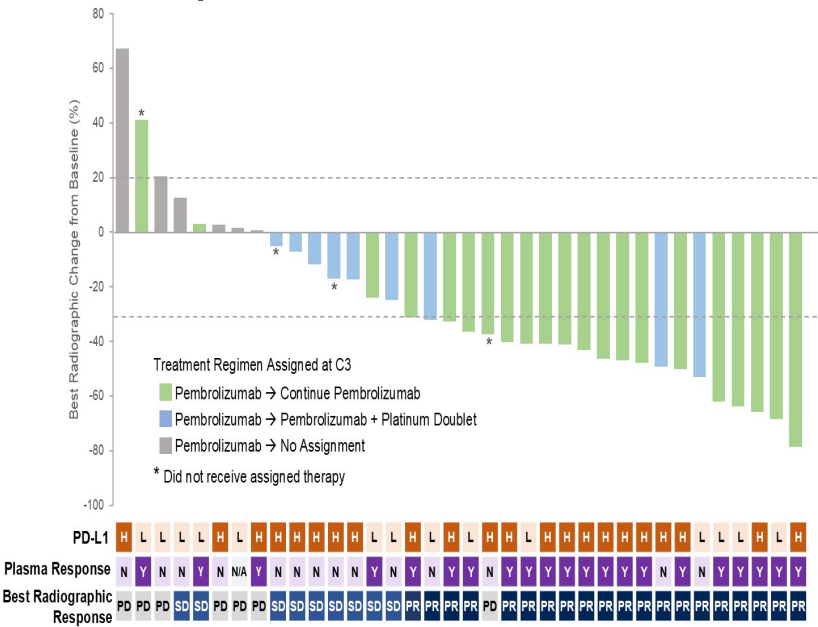


Treatment Allocation at Cycle Three



n (%)	Assigned ICI Monotherapy (N=21)	Assigned ChemolCI (N=9)	Off Rx Prior to Assignment (N = 10)
Age (mean)	68.4	69.8	72.2
Gender			
Male	11 (52.4%)	5 (55.6%)	6 (60.0%)
Female	10 (47.6%)	4 (44.4%)	4 (40.0%)
ECOG PS			
0	7 (33.3%)	2 (22.2%)	3 (30%)
1	14 (66.7%)	6 (66.7%)	6 (60%)
2	0 (0)	1 (11.1%)	1 (10%)
Histology			
NSQ	15 (71.4%)	7 (77.8%)	8 (80.0%)
SQ	6 (28.6%)	1 (11.1%)	2 (20.0%)
Adenosqua.	0 (0 %)	1 (11.1%)	0 (0%)
Tobacco			
Current	5 (23.8%)	3 (33.3%)	0 (0%)
Former	15 (71.4%)	5 (55.6%)	10 (100%)
Never	1 (4.8%)	1 (11.1%)	0 (0%)
PD-L1			
1-49%	8 (38.1%)	3 (33.3%)	4 (40.0%)
≥50%	13 (61.9%)	6 (66.7%)	6 (60.0%)
CNS+	4 (19.0%)	5 (55.6%)	1 (10.0%)

Best Response to Treatment



Best Response, All Patients

All Patients (N = 40)
PR 20 (50%)
SD 9 (22.5%)
PD 7 (17.5%)
UE 4 (10%)

Best Response by C2 Plasma Response

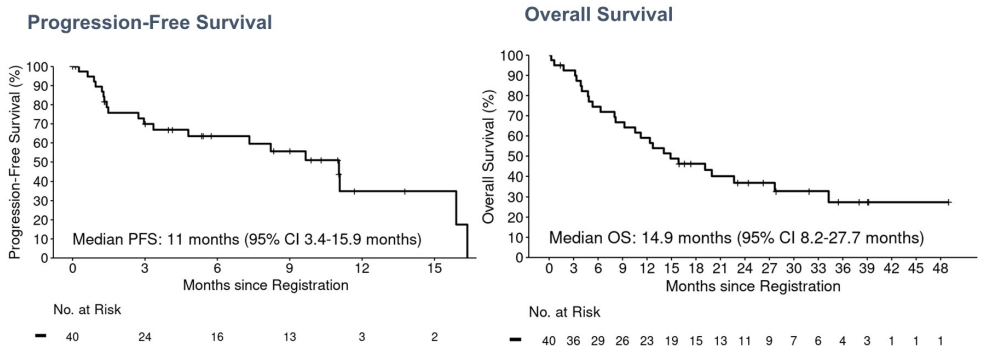
Plasma Response	No (N=15)	Yes (N=21)
PR	3 (21%)	17 (81%)
SD	7 (50%)	2 (9.5%)
PD	4 (29%)	2 (9.5%)
UE	1 (6.7%)	0

P=0.001†

†Fisher exact test; UE, unevaluable
Four subjects not shown due to lack of at least one radiographic response assessment



Survival Outcomes to an Adaptive Treatment Strategy



Survival outcomes were calculated for all enrolled patients from date of registration to date of progression or death inclusive of pembrolizumab monotherapy and, if indicated per protocol, adaptive pembrolizumab plus platinum doublet

Key Conclusions

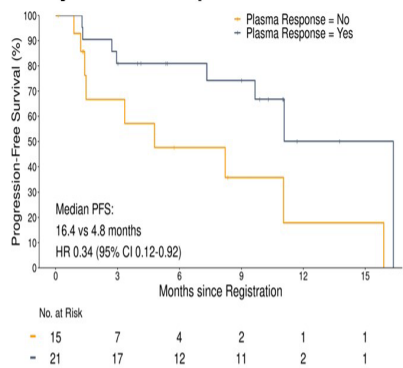
Plasma-guided intensification from first-line pembrolizumab monotherapy to platinum doublet/pembrolizumab is feasible in metastatic NSCLC

A plasma-guided strategy resulted in a median PFS of 11.0 months with fewer patients receiving first-line platinum doublet chemotherapy than would be predicted by PD-L1 TPS

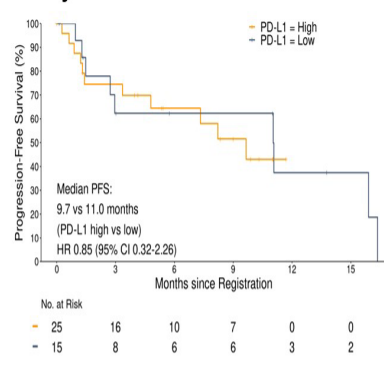
As a dynamic biomarker, ctDNA kinetics are an important emerging tool to guide clinical decision making in NSCLC. Further validation within a randomized study is needed to clarify implications for clinical practice

Survival by PD-L1 TPS and by Plasma Response

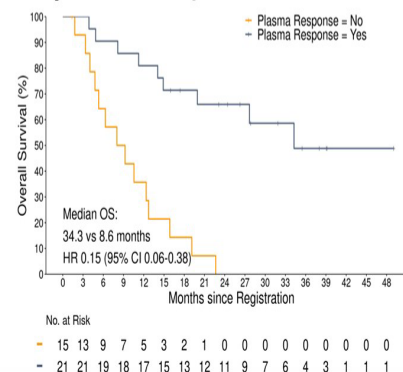
PFS by Plasma Response



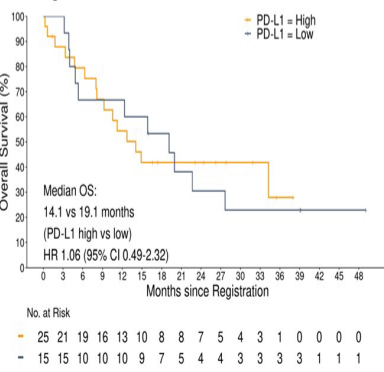
PFS by PD-L1 TPS



OS by Plasma Response



OS by PD-L1 TPS

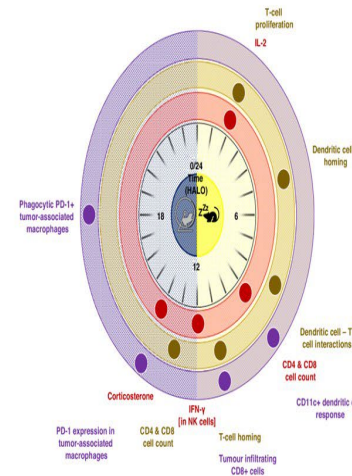


Randomized trial of Time-of-Day immunochemotherapy on Survival in Non-Small Cell Lung Cancer

Zhe Huang^{1,2*}, Liang Zeng^{1*}, Zhaohui Ruan^{1*}, Qun Zeng^{3*}, Huan Yan¹, Wenjuan Jiang¹, Yi Xiong¹, Chunhua Zhou¹, Haiyan Yang¹, Li Liu¹, Jiacheng Dai¹, Nachuan Zou¹, Shidong Xu^{1,2}, Ya Wang¹, Zhan Wang¹, Jun Deng⁴, Xue Chen⁴, Jing Wang⁵, Hua Xiang⁵, Xiaomei Li⁶, Boris Duchemann^{6,7}, Guoqiang Chen^{8,9}, Christoph Scheiermann^{3,11,12,13†}, Francis Lévi^{6,10†}, Nong Yang^{14†}, Yongchang Zhang^{1,2,4,15†}

Presenter: Yongchang Zhang, MD, PhD, Hunan Cancer Hospital, zhangyongchang@csu.edu.cn

Background



- Circadian rhythms is known to impact on sleep, disease and therapy.
- Pre-clinical studies have shown the association of circadian rhythms and immune cell function and distribution, thus may impact on efficacy of immunotherapy¹.
- Over 20 retrospective studies, and it's meta-analysis, have demonstrated improvement in the efficacy of ICIs given at early rather than late time of day²⁻³
- This is the first prospective randomized phase III study comparing early (before 15:00hr) with late (after 15:00hr) Time of Day (ToD) infusion of chemo-immunotherapy in patients with advanced NSCLC

¹ Cermakian et al, *JCI Insight*. 2020

² Huang Z et al, *eBioMedicine*. 2025 (our group)

³ Zachary et al, *Lancet Oncology*. 2021

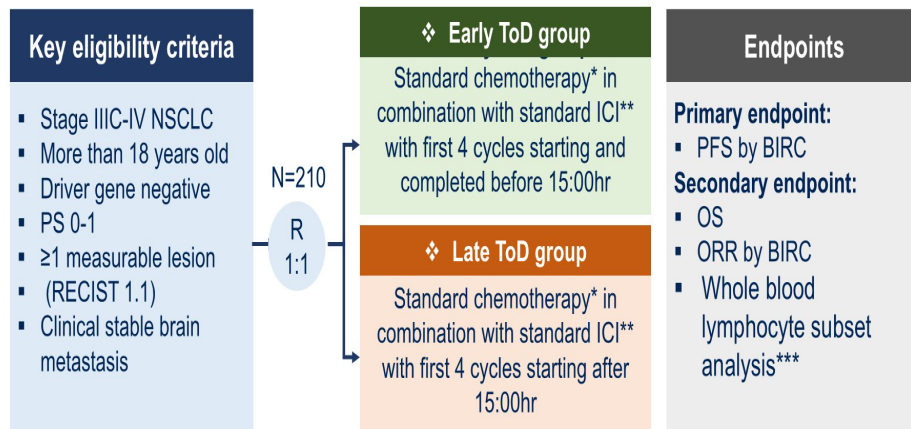
Inmunoterapia en enfermedad avanzada.

Abstract: 8516



Study design

A Phase 3, randomized, open-label study (Clinicaltrials.gov: NCT05549037)



Stratification factor: None

*(for details of chemotherapy: carboplatin (AUC of 5 mg/ml/min) and nab-paclitaxel (200 mg/m²), pemetrexed (500 mg/m²)

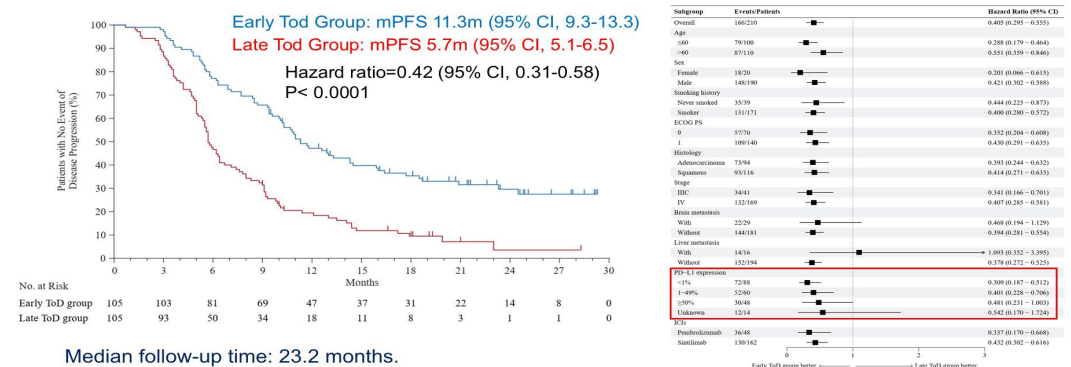
** (details of ICI: 200 mg of pembrolizumab or sintilimab)

***T cells (CD3⁺), CD4⁺ T cells (CD3⁺, CD4⁺), CD8⁺

T cells (CD3⁺, CD8⁺), B cells (CD3⁺, CD20⁺), and NK cells (CD16⁺, CD56⁺)

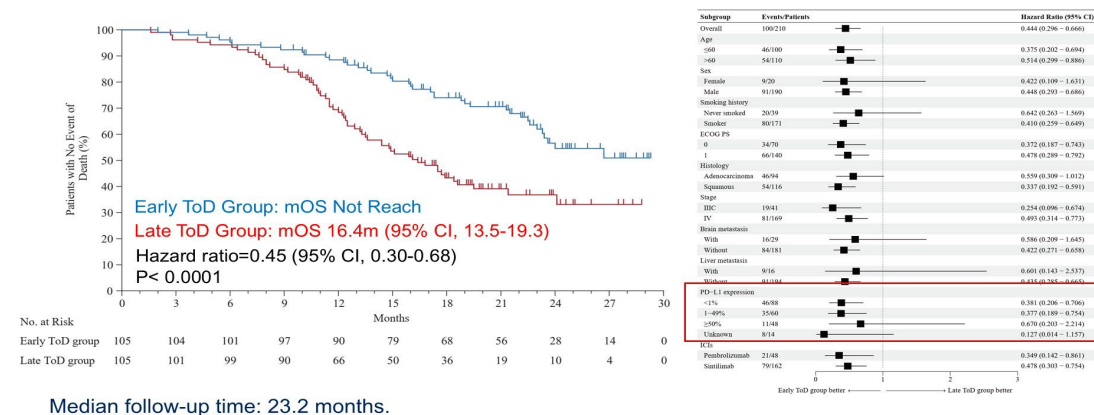
Results: PFS

Statistically significant improvement in PFS comparing early with late ToD group



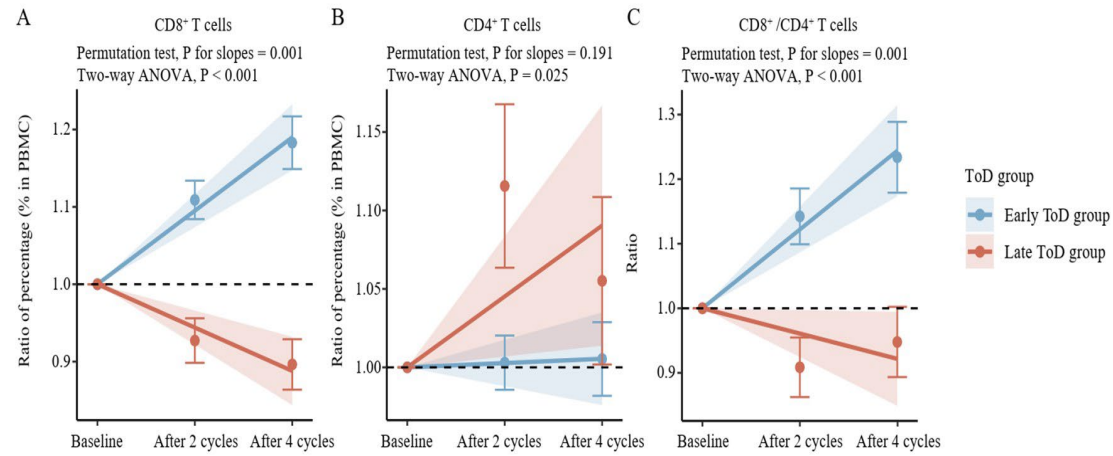
Results: OS

Statistically significant improvement in OS comparing early with late ToD group



Results: Circulating T cells

Increase of circulating CD8+ T cells in the early ToD group versus decrease in the late ToD group.



Conclusions

- This is the first prospective randomized phase III study demonstrating infusion of immunochemotherapy at early ToD (before 15:00) improves PFS and OS in patients with advanced NSCLC irrespective of PDL1 status.
- Significant difference in CD8⁺ T cell dynamics in peripheral blood comparing early with late ToD groups.
- Given the potential impact of circadian rhythms on immunotherapy, it is recommendable to document and/or stratify the infusion ToD in future clinical studies on immunotherapy



Phase 3 study of benmelstobart in combination with chemotherapy followed by sequential combination with anlotinib for the first-line treatment of locally advanced or metastatic squamous non-small cell lung cancer (sq-NSCLC)

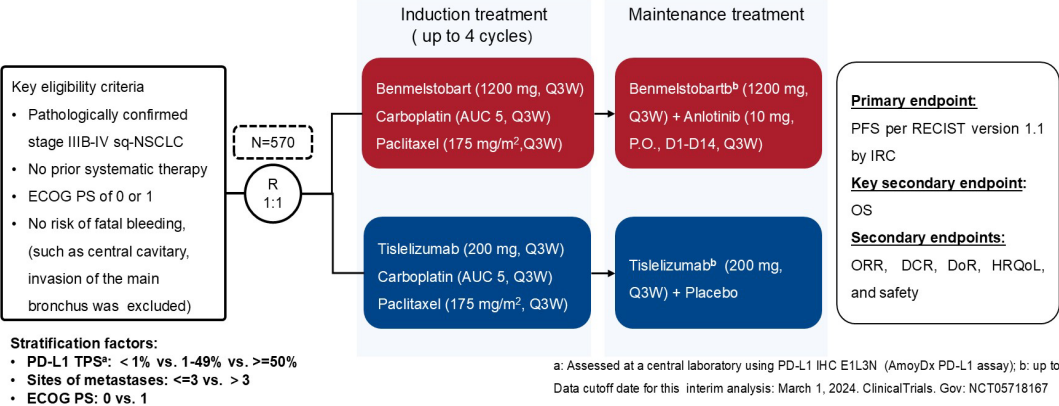
Yuankai Shi¹, Longhua Sun², Runxiang Yang³, Dingzhi Huang⁴, Yongzhong Luo⁵, Haichuan Su⁶, Qiang Liu⁷, Peng Zhang⁸, XingYa Li⁹, Xiangjiao Meng¹⁰, Yu Yao¹¹, Lingfeng Min¹², Yan Wang¹³, Lei Yang¹⁴, Conghua Xie¹⁵, Junquan Yang¹⁶, Jianhua Shi¹⁷, Zhi Xu¹⁸, Hongbo Wu¹⁹, Honghai Wang²⁰

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Yuankai Shi, Cancer Hospital, Chinese Academy of Medical Sciences

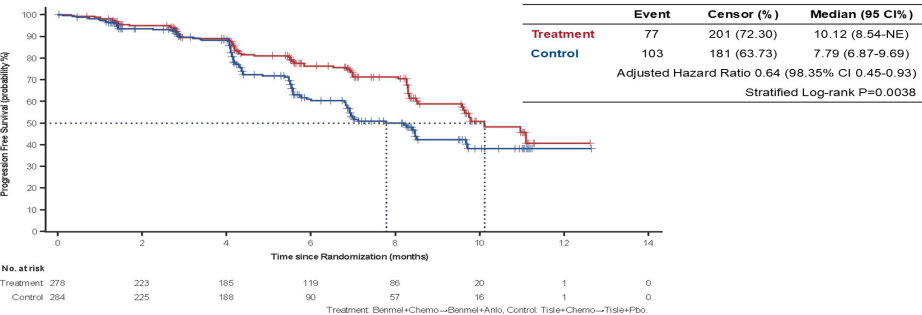
Study Design

TQB2450-III-12 is multicenter, randomized, double-blind, parallel-controlled phase III study



Abbreviation: sq, squamous; NSCLC, non-small cell lung cancer; ECOG, Eastern Cooperative Oncology Group, PS, Performance Status; PD-L1, programmed death ligand 1; TPS, tumor proportion score; AUC, area under the curve; PFS, progression free survival; RECIST, Response Evaluation Criteria in Solid Tumors; IRC, Independent Review Committee; OS, overall survival; ORR, objective response rate; DCR, disease control rate; DoR, duration of response; HRQoL, health related quality of life.

PFS (per RECIST version 1.1 by IRC, ITT), Interim Analysis



a: Superiority boundary $\alpha=0.0165$; Data cutoff date for this interim analysis: March 1, 2024. Median follow-up of PFS: 6.97 months (95%CI: 5.78, 7.62) vs. 6.87 months (95%CI: 5.62, 7.29). Abbreviation: PFS, progression free survival; RECIST, Response Evaluation Criteria in Solid Tumors; IRC, Independent Review Committee; ITT, intent to treatment; NE, not estimated.

Conclusions

- Benmelstobart in combination with chemotherapy followed by sequential combination with anlotinib demonstrated a significantly improvement in PFS compared with tislelizumab plus chemotherapy for locally advanced or metastatic sq-NSCLC.
 - Median PFS: 10.12 (95% CI: 8.54, NE) vs. 7.79 (95% CI: 6.87, 9.69) months, HR 0.64 (98.35% CI: 0.45, 0.93), P=0.0038.
 - PFS benefit favored benmelstobart in combination with anlotinib group in almost all subgroups.
- Improvements in ORR, DCR, and a more durable tumor response were observed.
- OS was not matured at this interim analysis.
- Benmelstobart in combination with chemotherapy followed by sequential combination with anlotinib showed a manageable safety profile.

Benmelstobart in combination with chemotherapy followed by sequential combination with anlotinib might be a new first-line treatment option for sq-NSCLC.

Abbreviation: PFS, progression free survival; sq, squamous; NSCLC, non-small cell lung cancer; HR, hazard ratio; CI, confidence interval; NE, not estimated; ORR, objective response rate; DCR, disease control rate; OS, overall survival

Poster Bd#135b: HARMONi-3

TPS8664

BACKGROUND

KEY ELIGIBILITY CRITERIA^{3,7}

TRIAL ENDPOINTS^{3,7}

TRIAL DESIGN^{3,7}

Please contact the presenting author, Jiajun Zhang at jzhang@redenderson.org for questions or comments.

Randomization

Maintenance
(up to 24 months)

Squamous:
Pembrolizumab

Safety and Survival Follow-up

Endpoints:

- Primary
 - OS, PFS by investigator assessment^a
- Secondary
 - ORR, DCR, and DOR by investigator assessment, safety, PK, immunogenicity

TRIAL STATUS⁷

Figure 3. HARMONI-3 Study Locations



The authors thank participants in all three campaigns, the investigators, and all the site staff who have participated and who are participating in this study. This study is sponsored by Summit Therapeutics, Inc. Medical writing assistance was provided by Sarah Lindrick, PhD, at Raport Oncology and was funded by Summit Therapeutics.

1. Henshale LJ et al. *Ann Oncol*. 2023;34(4):358-375. 2. Zhang Y et al. *Gastric*. 2024;20(2):1117-22. 3. Summit Therapeutics, Inc. Data on file 29 December 2024. 4. JPMORGAN Chase Bank. *Investigations of*. 2004; 1024-1027(1):567-70. 5. Xiong J et al. *Lancet*. 2017;390(10241):839-849. 6. Significant efficacy in PPS as first-line therapy for 191 metastatic gastric cancer patients in 1/1b trial of patients with gastric cancer NCT02141442: A phase II study conducted by Astra in China. 2023. Available at: <https://www.astrazeneca.com/pressroom/44ps-02023-01-01-01>. 7. Institute of patients with gastric cancer NCT02141442: A phase II study conducted by Astra in China. 2023. Available at: <https://www.astrazeneca.com/pressroom/44ps-02023-01-01-01>. 8. Clinical study identifier: NCT02141442. Accessed April 14, 2025. <https://www.clinicaltrials.gov/study/NCT02141442>.

Please contact the presenting author, Jiajun Zhang at jzhang@redenderson.org for questions or comments.

Inmunoterapia en enfermedad avanzada.

Poster: Bd#129a

TPS 8651

Phase 3 Trial of the Therapeutic Cancer Vaccine OSE2101 versus Docetaxel in Patients with Metastatic Non-Small Cell Lung Cancer and Secondary Resistance to Immunotherapy

Stephen V. Liu¹, Cyril Guibert², Elvire Pons Tostivint³, Raffaele Califano⁴, Ludovic Doucet⁵, Thomas Egenod⁶, Rafal Dziadziuszko⁷, Santiago Viteri Ramirez⁸, Federico Cappuzzo⁹, Silvia Comis¹⁰, Caroline Chevalier¹⁰, Valerie Gabarre¹⁰, Thomas Vandewalle¹⁰, François Montestruc¹¹, Berangere Vasseur¹⁰, Jordi Remon Masip¹², Benjamin Besse¹²

¹Georgetown Lombardi Comprehensive Cancer Center, Washington, DC; ²CHD Vendée, La Roche-Sur-Yon, France; ³Hopital Laennec, CHU Nantes, Saint-Herblain, France; ⁴Department of Medical Oncology, The Christie NHS Foundation Trust, Manchester, United Kingdom; ⁵Institut de Cancérologie de l'Ouest, Saint-Herblain, France; ⁶Department of Thoracic Oncology, Dupuytren University Hospital, Limoges, France; ⁷Department of Oncology & Radiotherapy and Early Phase Clinical Trials Centre, Medical University of Gdańsk, Gdańsk, Poland; ⁸UOMI Cancer Center, Clinica IM, Tres Torres, Barcelona, Spain; ⁹Department of Medical Oncology, IRCCS Regina Elena National Cancer Institute, Roma, Italy; ¹⁰OSE Immunotherapeutics, Paris, France; ¹¹EXYSTAT, Malakoff, France; ¹²Gustave Roussy Cancer Campus, Villejuif, France

Key Takeaways Points

- Immune Checkpoints Inhibitors (ICI) are standard treatment in patients with advanced/metastatic NSCLC & no actionable gene alterations¹. But disease will ultimately progress². In these situations of ICI resistance, there is no registered options while chemotherapy (CT) as docetaxel is generally used.**
- OSE2101 is a therapeutic cancer vaccine targeting Tumor-Associated Antigens (TAAs) frequently expressed in NSCLC. OSE2101 is composed of multiple epitopes which strongly bind the Human Leucocyte Antigen (HLA)-A2 receptor. In a prior study after immunotherapy failure, OSE2101 was compared to CT & showed promising efficacy associated with a better tolerance and Quality of Life³.**
- ARTEMIA is an ongoing phase 3 study designed to compare OSE2101 to docetaxel in HLA-A2 positive patients with metastatic NSCLC in 2d line treatment after 1st-line CT- ICI and secondary resistance to ICI. The primary endpoint is survival, and the main secondary endpoints are the Quality of Life assessed by the patients**

Background

Medium & high T Cell immune response induced by OSE2101 was associated with longer survival in heavily pre-treated patients HLA-A2+ with advanced NSCLC^{4,6}

In prior ATALANTE-1 study, OSE2101 improved survival versus CT in 3d line treatment in patients HLA-A2+ with advanced NSCLC & Secondary Resistance to Immunotherapy³

Study Design

KEY ELIGIBILITY CRITERIA

- HLA-A2 positive (in blood by central lab)
- Metastatic squamous & non-squamous NSCLC without actionable mutations
- In 2d line treatment after 1st-line CT- ICI with secondary resistance to ICI
- ECOG PS 0 to 1
- No brain metastases nor previously treated brain metastases

RANDO 2:1

ARM A: OSE2101 (n=242)
Q3W for 6 sc. inj., then Q8W until end Year 1, then Q12W Year 2 until PD, toxicity or consent withdrawal

ARM B: DOCETAXEL (n=121)
Q3W iv. infusion until PD, toxicity or consent withdrawal

Stratification
- Histology squamous vs non-squamous
- ECOG PS 0 vs 1

PRIMARY ENDPOINT: OVERALL SURVIVAL

SECONDARY ENDPOINTS:

- Patient Reported Outcomes: QLQ-C30
- Physical functioning, Role functioning & Global Health Score
- Time to ECOG PS >1 deterioration

Study Update & Contact

The ARTEMIA study is sponsored by **OSE IMMUNOTHERAPEUTICS**

ClinicalTrials.gov ID: NCT06472245

Contact: Stephen Liu@gecp.org

Mid May 2025 HLA-A2 pre-screening: ≈ 270 patients
Randomization: 45 patients

Belgium, France, Germany, Greece, Hungary, Italy, Netherlands, Poland, Portugal, Romania, Spain, United Kingdom

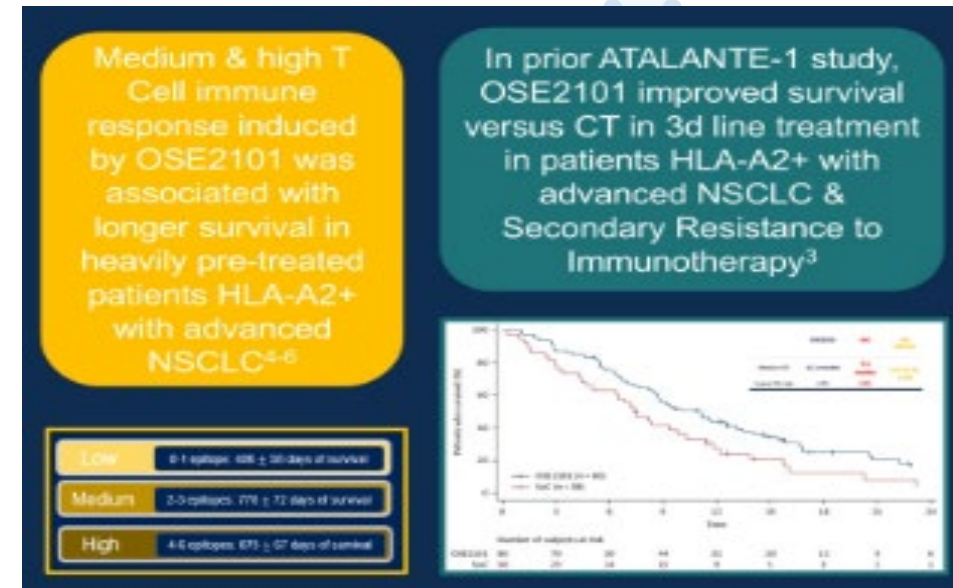
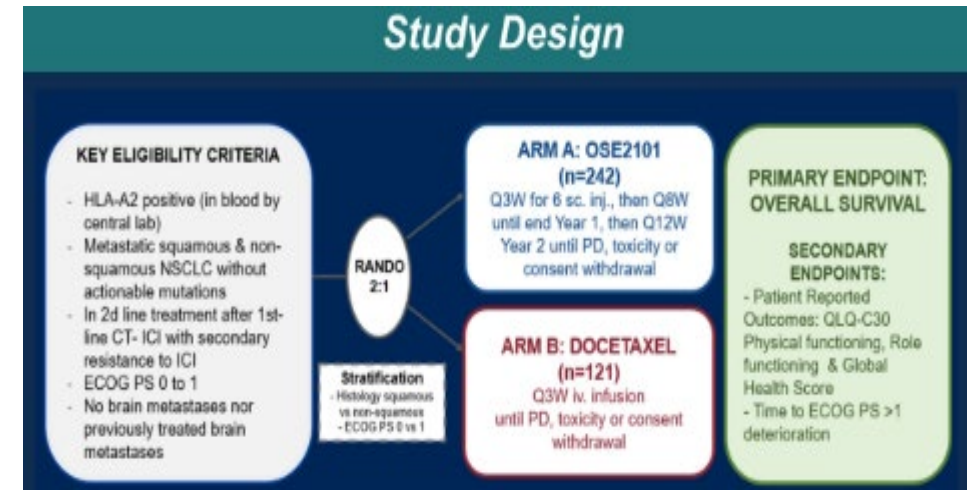
Canada & USA

14 countries and 140 investigator sites

References

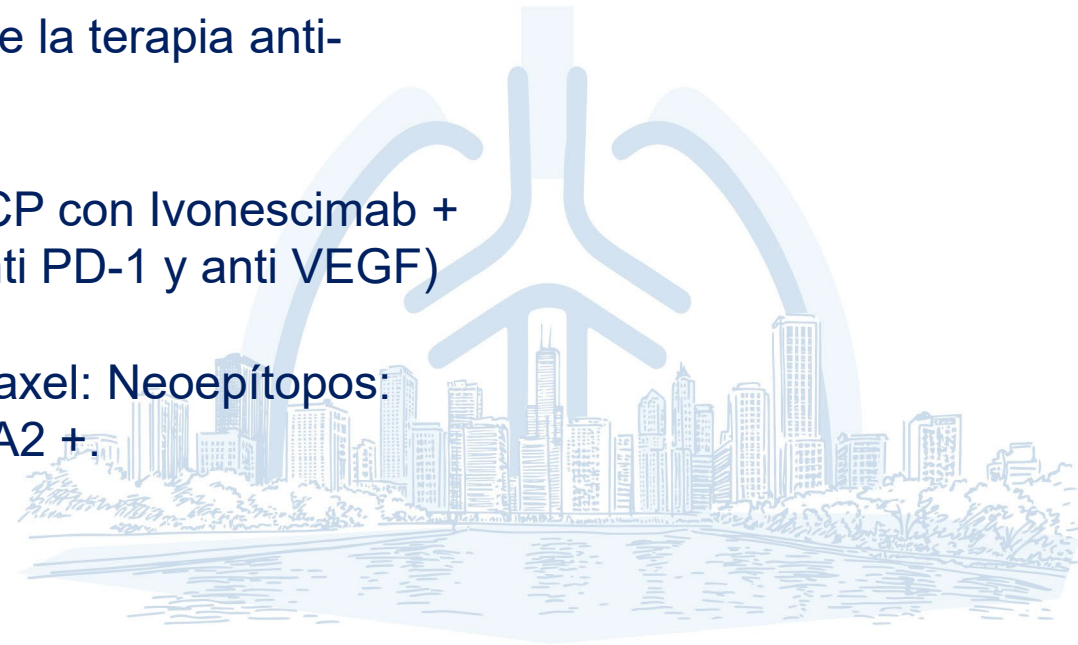
¹Hindriks 2023, ²Waz 2022, ³Besse 2020, ⁴Nave 2018, ⁵Viteri 2019, ⁶Besse 2019, ⁷Guibert 2020, ⁸Guibert 2020, ⁹Guibert 2020, ¹⁰Guibert 2020, ¹¹Guibert 2020, ¹²Guibert 2020

CT=Chemotherapy, ECOG PS=Eastern Cooperative Oncology Group Performance Status, HLA=Human Leukocyte Antigen, HR=Hazard Ratio, ICI=Immune checkpoint inhibitors, iv=intravenous, NSCLC=Non-small cell lung cancer, OS=Overall survival, PD=Progressive disease, s.c.=subcutaneous, QLQ-C30=Quality of Life questionnaire-core 30, ScD=Standard of care, TAA=Tumor-Associated Antigens



Inmunoterapia en enfermedad avanzada.

- El estado del ctDNA como guía para la escalada de tratamiento: estudio prometedor: precisa validación.
- Time-of-day: la hora de administración de la IO importa e impacta en supervivencia: LT- CD8+
- Ambos estudios asiáticos: plantean el uso de la terapia anti-angiogénica (Anlotinib).
- HARMONi-3: Estudio fase III: 1ª línea CPNCP con Ivonescimab + doblete basado en platino (bioespecífico: anti PD-1 y anti VEGF)
- ARTEMIA: OSE2101 (Tedopi) versus Docetaxel: Neoepítomos: objetivo mejorar la respuesta inmune, HLA-A2 +.



¡GRACIAS!

