Meet The Professor Optimizing the Management of Small Cell Lung Cancer

Jacob Sands, MD

Physician
Dana-Farber Cancer Institute
Assistant Professor
Harvard Medical School
Boston, Massachusetts



Commercial Support

This activity is supported by an educational grant from Jazz Pharmaceuticals Inc.



Dr Love — Disclosures

Dr Love is president and CEO of Research To Practice. Research To Practice receives funds in the form of educational grants to develop CME activities from the following companies: AbbVie Inc, Adaptive Biotechnologies Corporation, ADC Therapeutics, Agios Pharmaceuticals Inc, Alexion Pharmaceuticals, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Astellas, AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, BeyondSpring Pharmaceuticals Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Coherus BioSciences, CTI BioPharma Corp, Daiichi Sankyo Inc, Eisai Inc, Elevation Oncology Inc, EMD Serono Inc, Epizyme Inc, Exact Sciences Corporation, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, G1 Therapeutics Inc, Genentech, a member of the Roche Group, Genmab, Gilead Sciences Inc, GlaxoSmithKline, Grail Inc, Halozyme Inc, Helsinn Healthcare SA, ImmunoGen Inc, Incyte Corporation, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Karyopharm Therapeutics, Kite, A Gilead Company, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, MEI Pharma Inc, Merck, Mersana Therapeutics Inc, Mirati Therapeutics Inc, Natera Inc, Novartis, Novartis Pharmaceuticals Corporation on behalf of Advanced Accelerator Applications, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sanofi Genzyme, Seagen Inc, Servier Pharmaceuticals LLC, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Pharmaceuticals USA Inc, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc, Verastem Inc and Zymeworks Inc.

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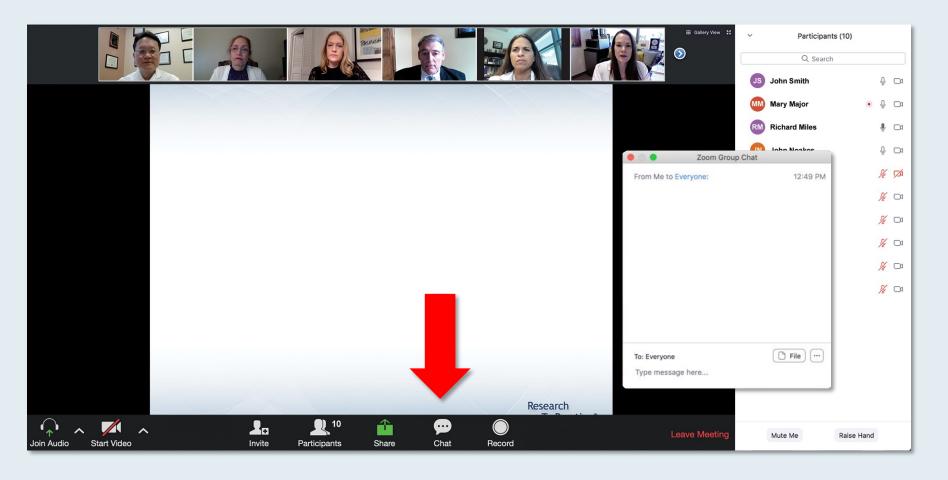


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Advisory Committee	Curadev
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We Encourage Clinicians in Practice to Submit Questions

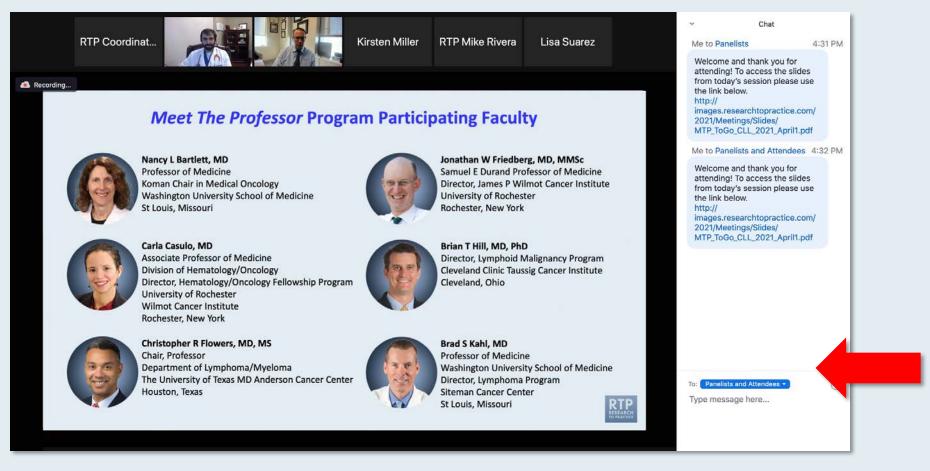


Feel free to submit questions now before the program begins and throughout the program.



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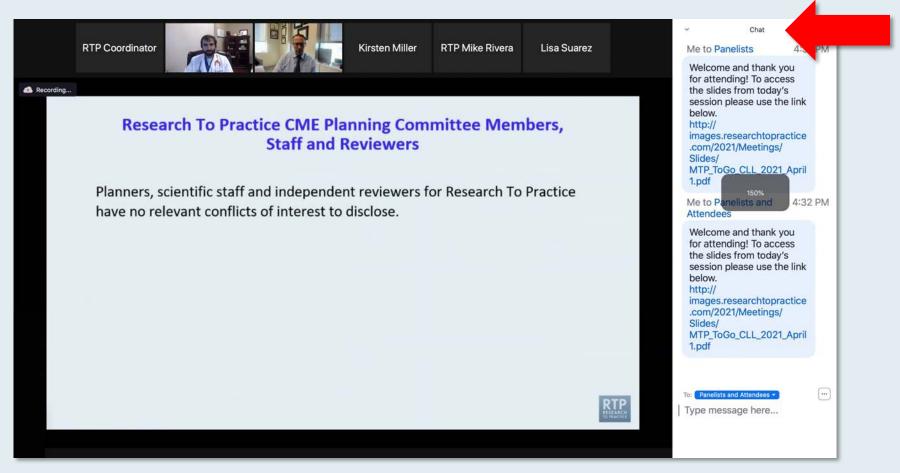


Drag the white line above the submission box up to create more space for your message.



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Press Command (for Mac) or Control (for PC) and the + symbol. You may do this as many times as you need for readability.



ONCOLOGY TODAY

WITH DR NEIL LOVE

Management of Unresectable Stage III Non-Small Cell Lung Cancer



DR JEFFREY BRADLEY
EMORY UNIVERSITY SCHOOL OF MEDICINE

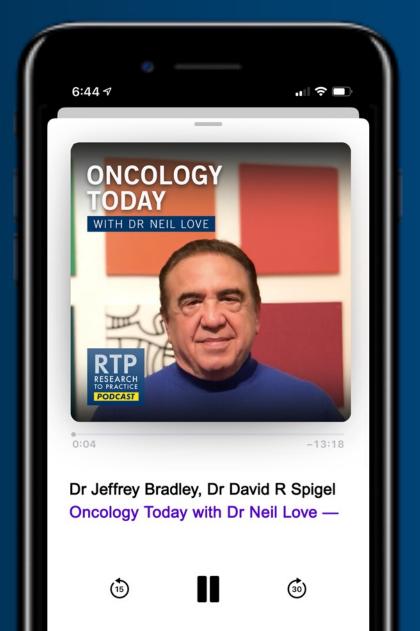


DR DAVID R SPIGEL
SARAH CANNON RESEARCH INSTITUTE









Meet The Professor Optimizing the Management of Gastroesophageal Cancers

Wednesday, August 17, 2022 5:00 PM - 6:00 PM ET

Faculty
John Strickler, MD



Meet The ProfessorOptimizing the Management of Ovarian Cancer

Thursday, August 25, 2022 5:00 PM - 6:00 PM ET

Faculty

Richard T Penson, MD, MRCP



Meet The Professor Current and Future Management of Non-Small Cell Lung Cancer with an EGFR Mutation

Wednesday, August 31, 2022 5:00 PM - 6:00 PM ET

Faculty
Lecia V Sequist, MD, MPH



Meet The Professor Optimizing the Management of HER2-Positive Breast Cancer

Thursday, September 1, 2022 5:00 PM – 6:00 PM ET

Faculty

Mark D Pegram, MD



Exploring Current Considerations and Promising Investigational Approaches for Patients with Myelodysplastic Syndromes

CME/MOC-Accredited Virtual Symposium in Conjunction with the Society of Hematologic Oncology 2022 Annual Meeting

> Thursday, September 8, 2022 5:00 PM - 6:00 PM ET

> > **Faculty**

Gail J Roboz, MD
David Sallman, MD
Additional faculty to be announced



Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 5 business days.



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Jacob Sands, MD

Physician
Dana-Farber Cancer Institute
Assistant Professor
Harvard Medical School
Boston, Massachusetts



Meet The Professor Program Participating Faculty



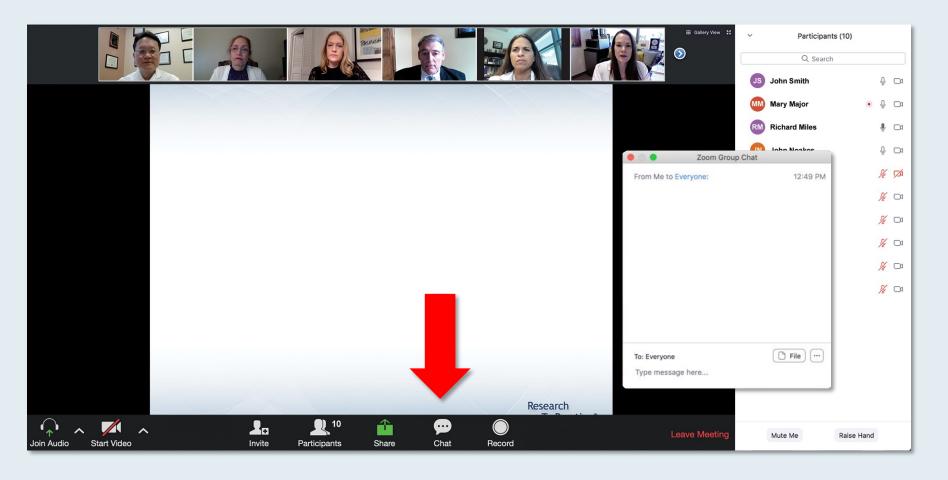
Jacob Sands, MD
Physician
Dana-Farber Cancer Institute
Assistant Professor
Harvard Medical School
Boston, Massachusetts



Moderator Neil Love, MD Research To Practice



We Encourage Clinicians in Practice to Submit Questions



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ONCOLOGY TODAY

WITH DR NEIL LOVE

Management of Unresectable Stage III Non-Small Cell Lung Cancer



DR JEFFREY BRADLEY
EMORY UNIVERSITY SCHOOL OF MEDICINE

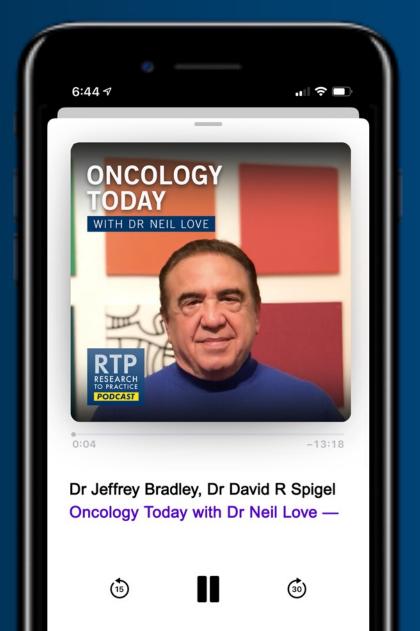


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SARAH CANNON RESEARCH INSTITUTE









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Daniel R Carrizosa, MD, MSAtrium Health Levine Cancer Institute
Charlotte, North Carolina



Namrata I Peswani, MD Harold C Simmons Comprehensive Cancer Center Richardson, Texas



Kapisthalam (KS) Kumar, MD Florida Cancer Specialists Trinity, Florida



Ferdy Santiago, MDFlorida Cancer Specialists
Naples, Florida



Adam R Miller, MD
Mass General/North Shore Cancer
Center
Danvers, Massachusetts



John Yang, MD
Fall River, Massachusetts



Mohamed K Mohamed, MD, PhD
Cone Health Cancer Center
Greensboro, North Carolina



Meet The Professor with Dr Sands

Introduction: Journal Club

MODULE 1: Case Presentations

MODULE 2: Appendix of Key Publications



Meet The Professor with Dr Sands

Introduction: Journal Club

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MODULE 2: Appendix of Key Publications



J Thorac Oncol 2021 January;16(1):37-53.



STATE OF THE ART: CONCISE REVIEW

Lung Screening Benefits and Challenges: A Review of The Data and Outline for Implementation

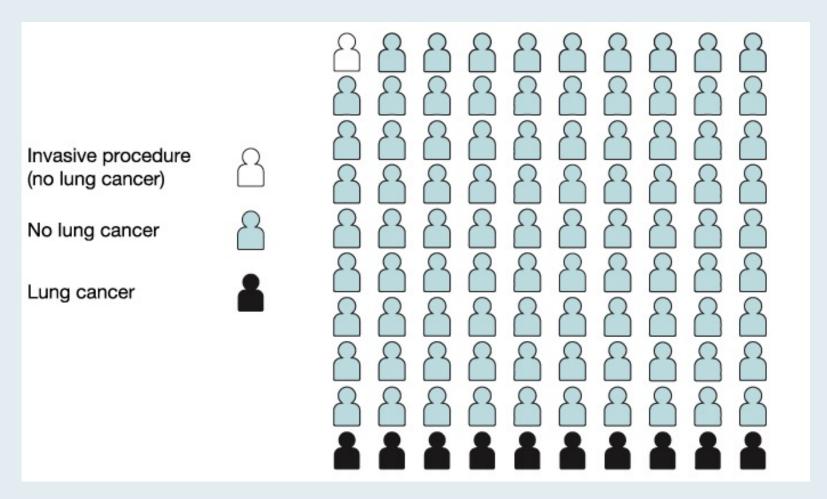


Jacob Sands, MD,^{a,*} Martin C. Tammemägi, PhD,^b Sebastien Couraud, MD, PhD,^c David R. Baldwin, MD, FRCP,^d Andrea Borondy-Kitts, MS, MPH,^e David Yankelevitz, MD,^f Jennifer Lewis, MD,^{g,h,i} Fred Grannis, MD,^j Hans-Ulrich Kauczor, MD,^k Oyunbileg von Stackelberg, PhD,^k Lecia Sequist, MD,^l Ugo Pastorino, MD,^m Brady McKee, MDⁿ



Updated Decision Aid to Support Shared Decision-Making in Practice: Lung Screening Outcomes

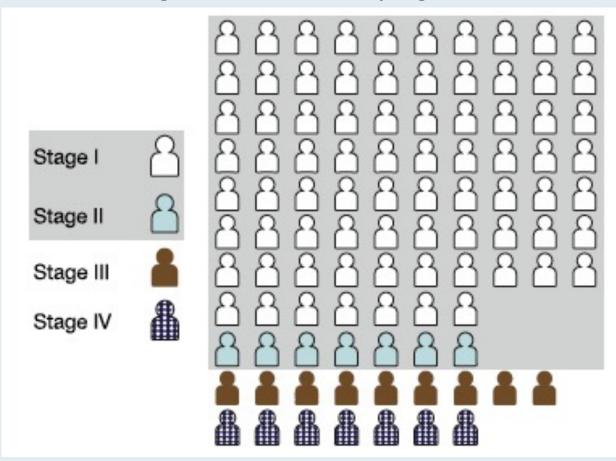
Lung screening outcomes of 100 high-risk individuals during full duration of screening eligibility



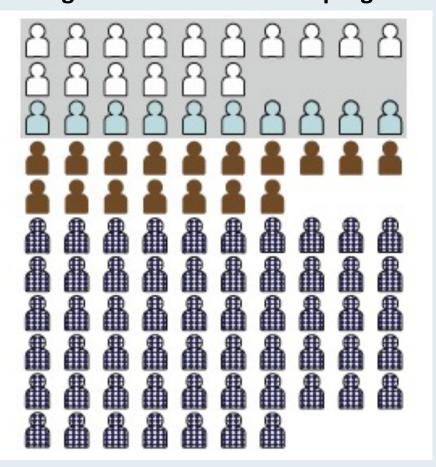


Updated Decision Aid to Support Shared Decision-Making in Practice: Lung Cancer Stage at Diagnosis

Diagnosed within CTLS program



Diagnosed outside of CTLS program





Yet Another Reminder of the Value of Lung Cancer Screening

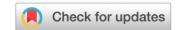
Anurag K. Singh, MD,* Jacob M. Sands, MD

J Thorac Oncol 2021 September;16(9):1479-89.



ORIGINAL ARTICLE

Impact of Low-Dose Computed Tomography Screening for Primary Lung Cancer on Subsequent Risk of Brain Metastasis



Chloe C. Su, BS,^{a,b} Julie T. Wu, MD, PhD,^c Joel W. Neal, MD, PhD,^{c,d} Rita A. Popat, PhD,^b Allison W. Kurian, MD, MSc,^{c,d} Leah M. Backhus, MD, MPH,^{d,e,f} Seema Nagpal, MD,^{d,g,h} Ann N. Leung, MD,ⁱ Heather A. Wakelee, MD,^{c,d} Summer S. Han, PhD^{a,d,h,*}



Stage of Lung Cancer Diagnosed in Patients Randomized to CT Screening: Screen Detected versus Nonscreen Detected

Stage	NLST		NELSON	
	Screen Detected (%)	Nonscreen Detected (%)	Screen Detected (%)	Nonscreen Detected (%)
IA	329 (52)	82 (23)	95 (47)	10 (7)
IB	71 (11)	31 (9)	24 (12)	10 (7)
IIA	26 (4)	7 (2)	8 (4)	4 (3)
IIB	20 (3)	15 (4)	11 (5)	6 (4)
IIIA	59 (9)	37 (10)	20 (10)	14 (10)
IIIB	49 (8)	58 (16)	13 (6)	14 (10)
IV	81 (13)	131 (36)	19 (9)	73 (52)

CT, computed tomography; NLST, National Lung Screening Trial.



Recent Stage Shifts and Changes in the Treatment of Stage I Small Cell Lung Cancer in the United States

Haridas CS et al.

IASLC 2022; Abstract EP14.05-003.



Clinical Stage of SCLC Treated in the United States

Baseline	2010-2013	2014-2017	p-
Characteristics	(n=55,335)	(n=59,907)	value
Clinical Stage: I II III IV Not staged	3.9% 3.2% 20.5% 61.5% 10.9%	4.5% 3.6% 21.4% 62.5% 8.0%	<0.001



Meet The Professor with Dr Sands

Introduction: Journal Club

MODULE 1: Case Presentations

MODULE 2: Appendix of Key Publications



Cancers (Basel) 2021 February 10;13(4):727.



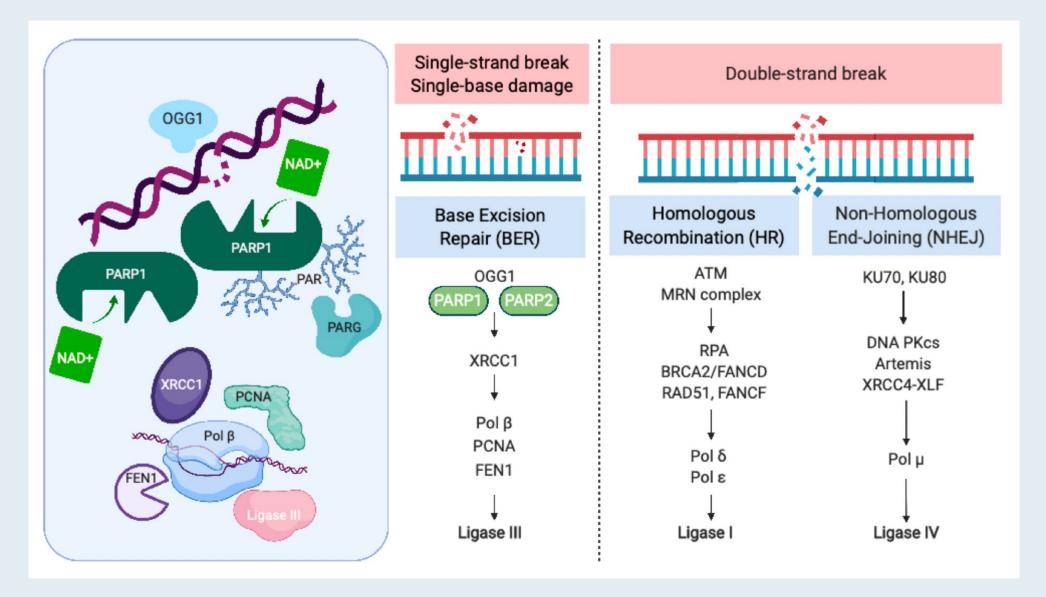
Review

PARP Inhibitors in Small-Cell Lung Cancer: Rational Combinations to Improve Responses

Erik H. Knelson ¹, Shetal A. Patel ² and Jacob M. Sands ^{1,*}

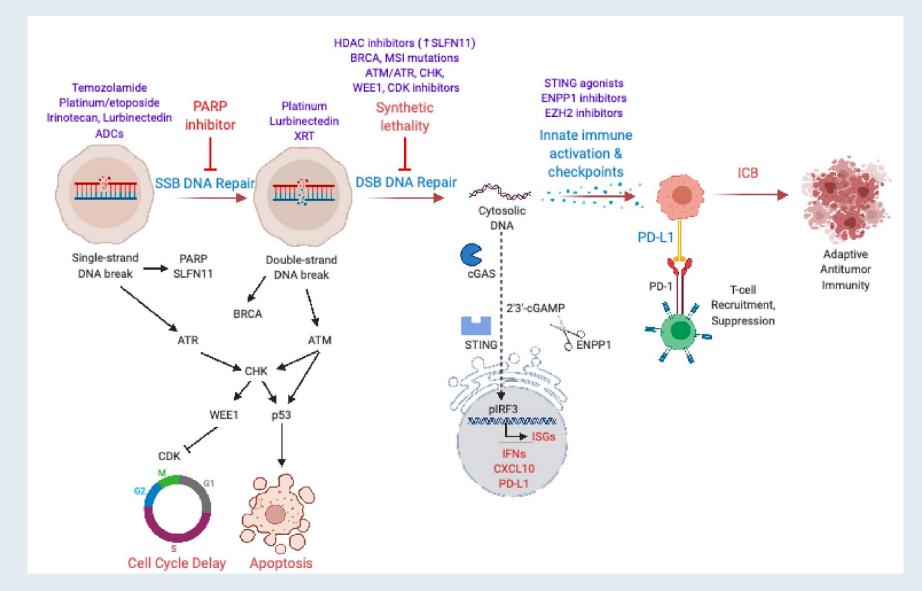


The Role of PARP in the DNA Damage Response





PARP Inhibitor Combinations





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KeyVibe-008: Randomized, Phase 3 Study of First-Line Vibostolimab plus Pembrolizumab plus Etoposide/Platinum versus Atezolizumab plus EP in Extensive-Stage Small Cell Lung Cancer

Sands J et al.

ASCO 2022; Abstract TPS8606.



Meet The Professor with Dr Sands

MODULE 1: Case Presentations

- Dr Miller: A 55-year-old woman with extensive-stage small cell lung cancer (ES-SCLC) who had an excellent response to chemo-IO and has been on maintenance IO for 2 years
- Dr Peswani: A 66-year-old woman with ES-SCLC who presented with SVC syndrome and has a near CR with chemo-IO
- Dr Yang: An 87-year-old woman with metastatic SCLC possibly of adrenal origin who has an excellent response to chemo-IO
- Dr Santiago: A 74-year-old man with recurrent ES-SCLC who has prolonged disease control on topetecan/trilaciclib
- Dr Miller: A 59-year-old woman with ES-SCLC and brain metastases who responds to chemo-IO but later has PD and has toxicity with topotecan
- Dr Mohamed: A 69-year-old woman with ES-SCLC who has PD on chemo-IO but responds to lurbinectidin with only mild toxicity
- Dr Carrizosa: A 73-year-old man with synchronous Stage III SCLC and Stage I NSCLC who receives concurrent CRT
- Dr Kumar: A 60-year-old woman with ES-SCLC who has a PR with chemo-IO but a residual splenic hilar lymph node
- Dr Miller: A 64-year-old woman with ES-SCLC who responds to chemo-IO but develops CNS oligometastasis on IO maintenance

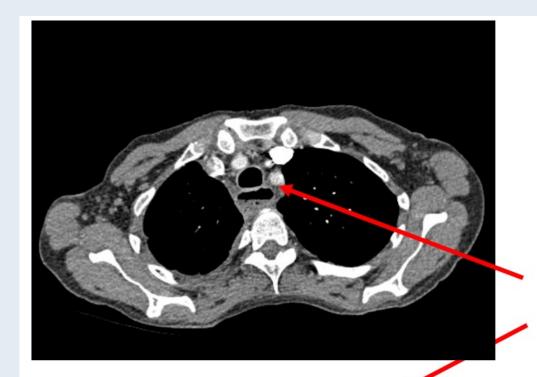


Case Presentation: A 55-year-old woman with ES-SCLC who had an excellent response to chemo-IO and has been on maintenance IO for 2 years



Dr Adam Miller (Danvers, Massachusetts)





Dilated esophagus from mass effect, with contents in proximal esophagus



Large conglomerate RIGHT hilar/mediastinal mass



Case Presentation: A 66-year-old woman with ES-SCLC who presented with SVC syndrome and has a near CR with chemo-IO



Dr Namrata Peswani (Richardson, Texas)



Case Presentation: An 87-year-old woman with metastatic SCLC possibly of adrenal origin who has an excellent response to chemo-IO



Dr John Yang (Fall River, Massachusetts)



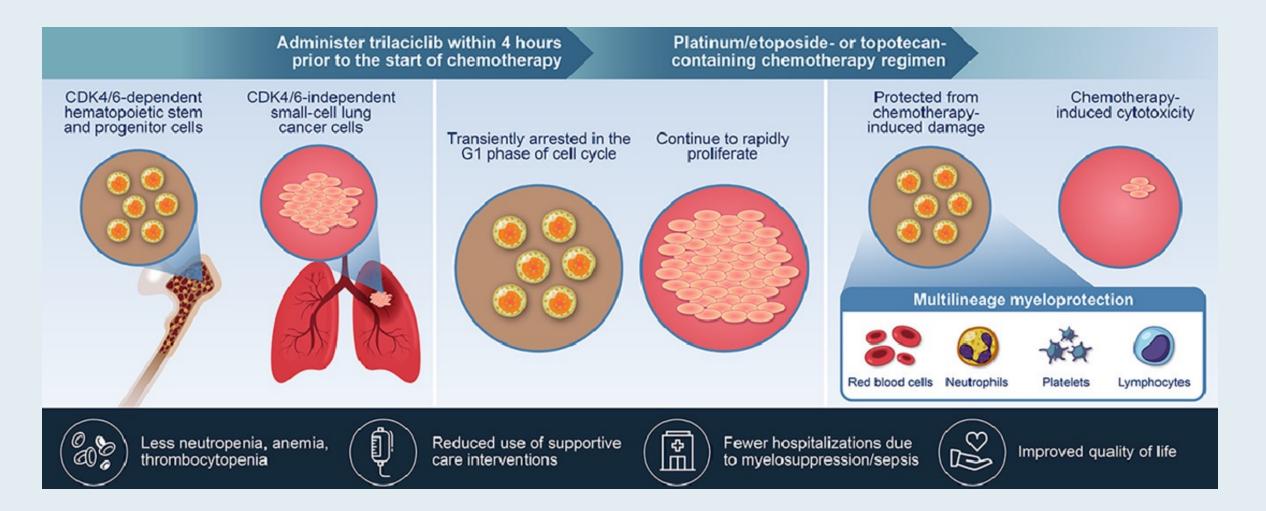
Case Presentation: A 74-year-old man with recurrent ES-SCLC who has prolonged disease control on topetecan/trilaciclib



Dr Ferdy Santiago (Naples, Florida)



Trilaciclib: Mechanism of Action





Clin Lung Cancer 2021;22(5):449-60.

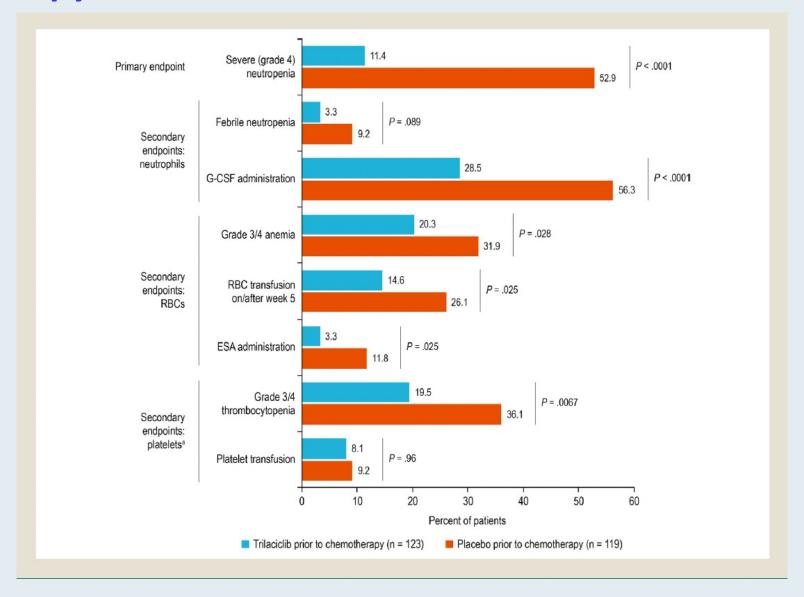
Original Study

Effects of Trilaciclib on Chemotherapy-Induced Myelosuppression and Patient-Reported Outcomes in Patients with Extensive-Stage Small Cell Lung Cancer: Pooled Results from Three Phase II Randomized, Double-Blind, Placebo-Controlled Studies

Jared Weiss, ¹ Jerome Goldschmidt, ² Zoran Andric, ³ Konstantin H. Dragnev, ⁴ Chad Gwaltney, ⁵ Konstantina Skaltsa, ⁶ Yili Pritchett, ⁷ Joyce M. Antal, ⁷ Shannon R. Morris, ⁷ Davey Daniel ^{8,9}



Myelopreservation Benefits with Trilaciclib Administered Prior to Chemotherapy



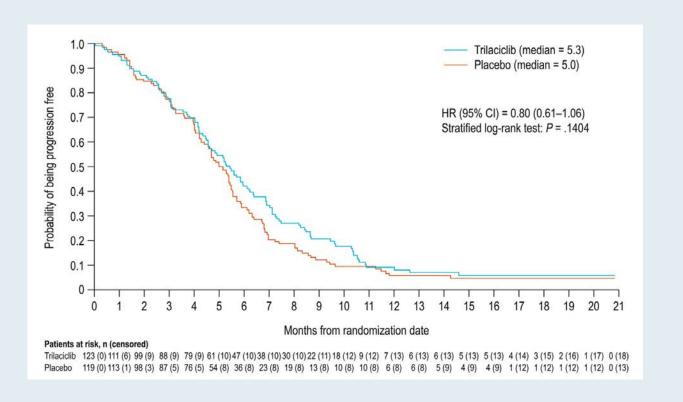


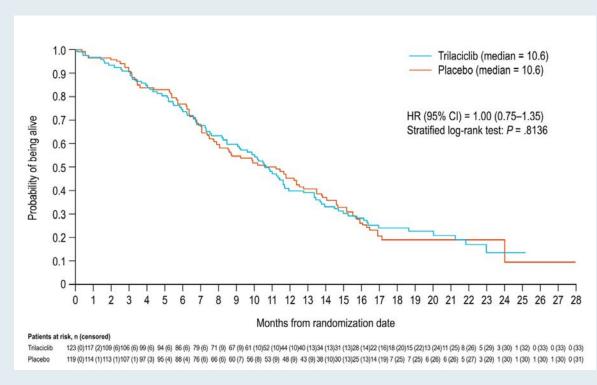
Time to Confirmed Deterioration (TTCD) in Selected Patient-Reported Outcome Measures with Trilaciclib

Domain Tr	Events, n ilaciclib/placebo	TTCD, months Trilaciclib/placebo	T	Hazard ratio (95% CI)
Physical wellbeing	32/51	NYR/5.16	—	0.62 (0.40–0.97)
Functional wellbeing	31/55	7.62/3.78	├	0.45 (0.29–0.71)
Fatigue	39/61	7.03/2.33	├──	0.56 (0.37–0.85)
Anemia trial outcome index	33/55	7.20/3.78	├──	0.54 (0.35–0.84)
FACT-An total	31/58	NYR/3.48	0.4 0.6 0.8 1 1.67	0.47 (0.30–0.73) 2.5
			Trilaciclib better Placebo	better



Progression-Free and Overall Survival for Patients Who Received Trilaciclib versus Placebo







Summary of Adverse Events (AEs) in the Pooled Safety Population

Event	n (%)		
	Trilaciclib Prior to Chemotherapy $(n = 122)$	Placebo Prior to Chemotherapy $(n = 118)$	
Any AE	115 (94.3)	114 (96.6)	
Any placebo-/trilaciclib-related AE	45 (36.9)	49 (41.5)	
Any serious AE	36 (29.5)	30 (25.4)	
Any placebo-/trilaciclib-related serious AE	2 (1.6)	1 (0.8)	
Any AE of grade ≥3	73 (59.8)	98 (83.1)	
Any AE of grade ≥4	30 (24.6)	62 (52.5)	
Any placebo-/trilaciclib-related AE of grade ≥3	10 (8.2)	18 (15.3)	
Any hematologic AE	82 (67.2)	106 (89.8)	
Any hematologic AE of grade ≥ 3	54 (44.3)	91 (77.1)	
Any hematologic AE of grade \geq 4	19 (15.6)	62 (52.5)	
AESIs for trilaciclib	23 (18.9)	10 (8.5)	
Any AE leading to discontinuation of any study drug	11 (9.0)	13 (11.0)	
All-cause hospitalization	30 (24.6)	30 (25.4)	
Hospitalization due to CIM or sepsis	5 (4.1)	16 (13.6)	
Any AE leading to death	6 (4.9)	3 (2.5)	

AESIs = adverse events of special interest



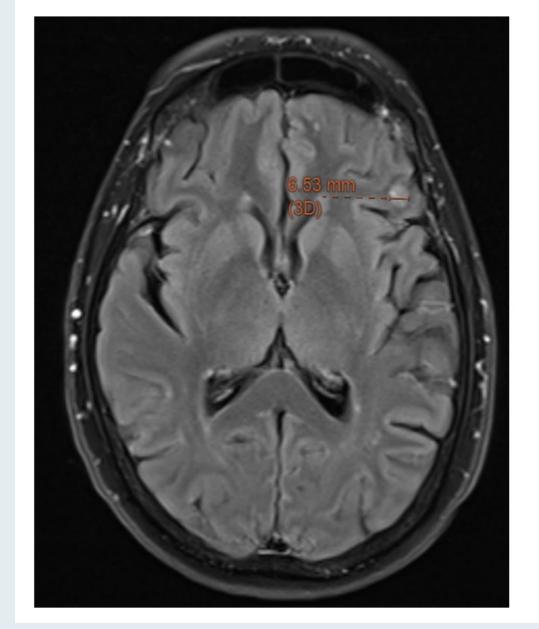
Case Presentation: A 59-year-old woman with ES-SCLC and brain metastases who responds to chemo-IO but later has PD and has toxicity with topotecan



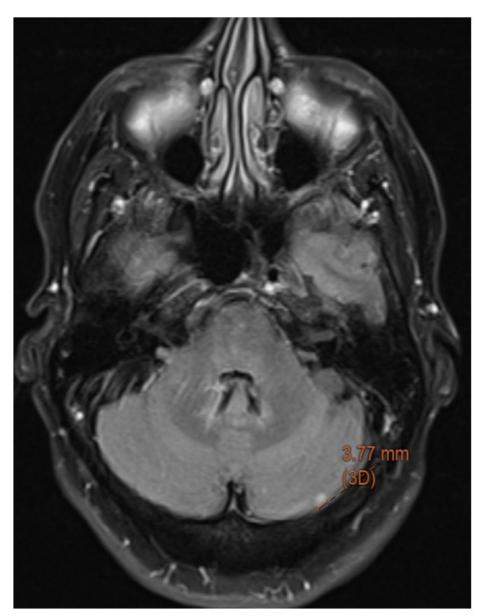
Dr Adam Miller (Danvers, Massachusetts)



Left frontal lesion ~ 6.5 mm



3.7 mm left cerebellar lesion





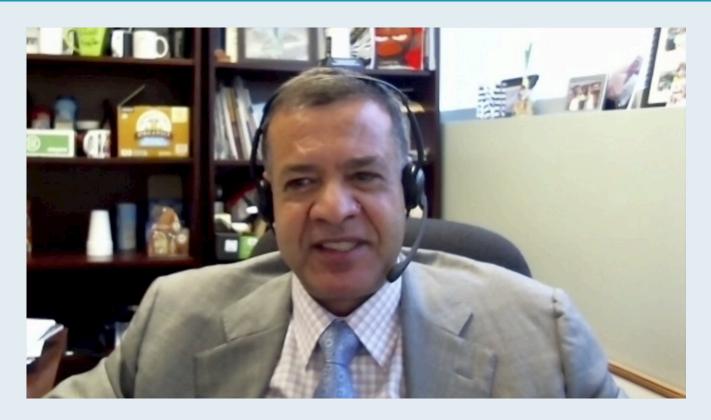
Case Presentation: A 59-year-old woman with ES-SCLC and brain metastases who responds to chemo-IO and later has PD and has toxicity with topotecan (cont)



Dr Adam Miller (Danvers, Massachusetts)



Case Presentation: A 69-year-old woman with ES-SCLC who has PD on chemo-IO but responds to lurbinectidin with only mild toxicity



Dr Mohamed Mohamed (Greensboro, North Carolina)



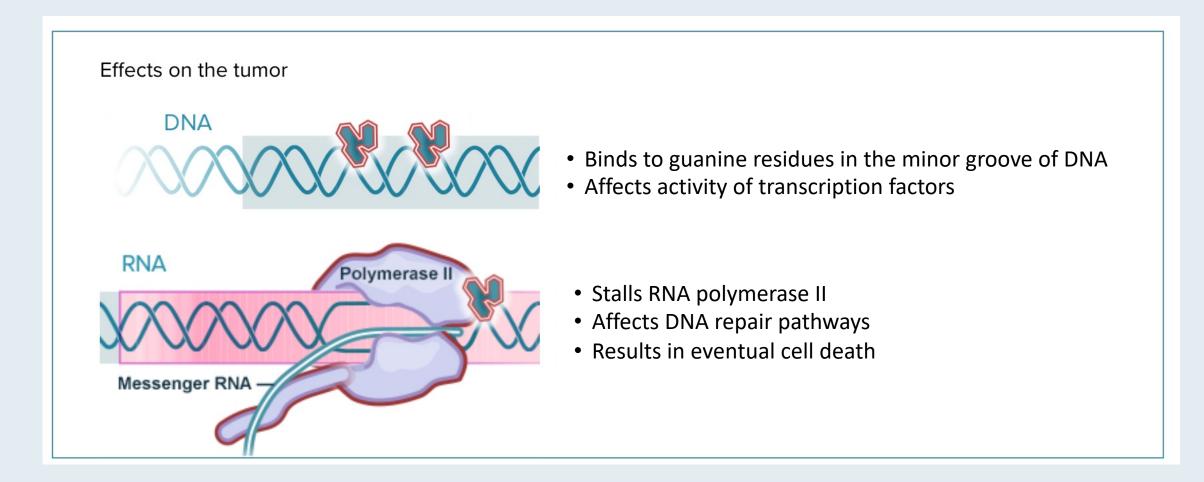
An overview of lurbinectedin as a new second-line treatment option for small cell lung cancer

Shetal Patel, William Jeffrey Petty and Jacob M. Sands

Ther Adv Med Oncol 2021, Vol. 13: 1–9



Lurbinectedin Mechanism of Action





Lancet Oncol 2020;21(5):645-54.

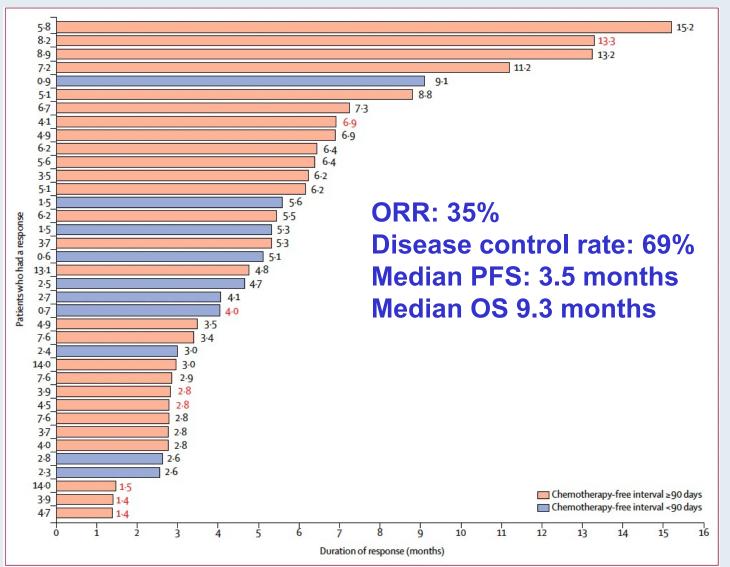
Lurbinectedin as second-line treatment for patients with small-cell lung cancer: a single-arm, open-label, phase 2 basket trial



José Trigo*, Vivek Subbiah*, Benjamin Besse, Victor Moreno, Rafael López, María Angeles Sala, Solange Peters, Santiago Ponce, Cristian Fernández, Vicente Alfaro, Javier Gómez, Carmen Kahatt, Ali Zeaiter, Khalil Zaman, Valentina Boni, Jennifer Arrondeau, Maite Martínez, Jean-Pierre Delord, Ahmad Awada, Rebecca Kristeleit, Maria Eugenia Olmedo, Luciano Wannesson, Javier Valdivia, María Jesús Rubio, Antonio Anton, John Sarantopoulos, Sant P Chawla, Joaquín Mosquera-Martinez, Manolo D'Arcangelo, Armando Santoro, Victor M Villalobos, Jacob Sands, Luis Paz-Ares



Response, Survival and Common AEs in the Pivotal Phase II Study of Lurbinectedin for SCLC After 1 Line of Chemotherapy



Common treatment-related adverse events			
	Grade 1-2	Grade 3-4	
Anemia	87%	9%	
Leukopenia	50%	29%	
Neutropenia	26%	46%	
Thrombocytopenia	37%	7%	

AEs = adverse events; ORR = overall response rate; PFS = progression-free survival; OS = overall survival



Lurbinectedin/doxorubicin versus CAV or topotecan in relapsed SCLC patients: Phase III randomized ATLANTIS trial

Luis Paz-Ares¹

¹Hospital Universitario 12 de Octubre, Madrid, Spain

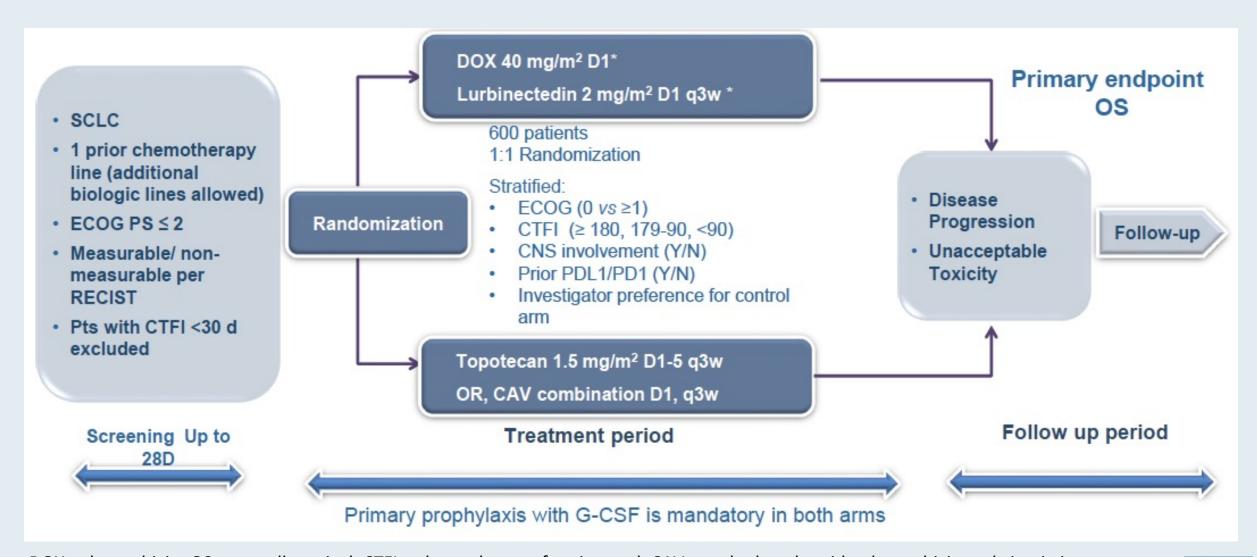
Tudor Eliade Ciuleanu², Alejandro Navarro³, Andrea Fulop⁴, Sophie Cousin⁵, Laura Bonanno⁶, Egbert Smit⁷, Alberto Chiappori⁸, Mª Eugenia Olmedo⁹, Ildiko Horvath¹⁰, Christian Gröhé¹¹, José Antonio López-Vilariño¹², Rafael Núñez¹², Antonio Nieto¹², Martin Cullell-Young¹², Noelia Vasco¹², Carmen Kahatt¹², Ali Zeaiter¹², Enric Carcereny¹³, Jaromir Roubec¹⁴, Konstantios Syrigos¹⁵, Gregory Lo¹⁶, Isidoro Barneto¹⁷.

²Institutul Oncologic Prof. Dr. Ion Chiricuta, și Universitatea de medicina și farmacie Iuliu Hatieganu , Cluj-Napoca, Romania. ³Hospital Vall d'Hebrón, Barcelona, Spain. ⁴Orszagos Koranyi TBC es Pulmonologiai Intezet, 6, Budapest, Hungary. ⁵ CRLCC Institut Bergonie, Bordeaux, France. ⁶Istituto Oncologico Veneto, Padova, Italy. ⁷Antonie van Leeuwenhoek Ziekenhuis, Amsterdam, The Netherlands. ⁸H. Lee Moffitt Cancer Center & Research Institute, Tampa (FL), USA. ⁹Hospital Universitario Ramón y Cajal, Madrid, Spain. ¹⁰Orszagos Koranyi TBC es Pulmonologiai Intezet, 14, Budapest, Hungary. ¹¹Evangelische Lungenklinik, Berlin, Germany. ¹²Pharma Mar, S.A., Colmenar Viejo, Madrid, Spain. ¹³ Institut Català d'Oncologia-Hospital Germans Trias i Pujol B-ARGO GROUP, Badalona, Spain. ¹⁴Nemocnice AGEL, Ostrava-Vitkovice, Czech Republic. ¹⁵3rd Department of Medicine, National & Kapodistrian University of Athens. ¹⁶Lakeridege Hospital, Oshawa (ON), Canada. ¹⁷Hospital Reina Sofía, Córdoba, Spain.





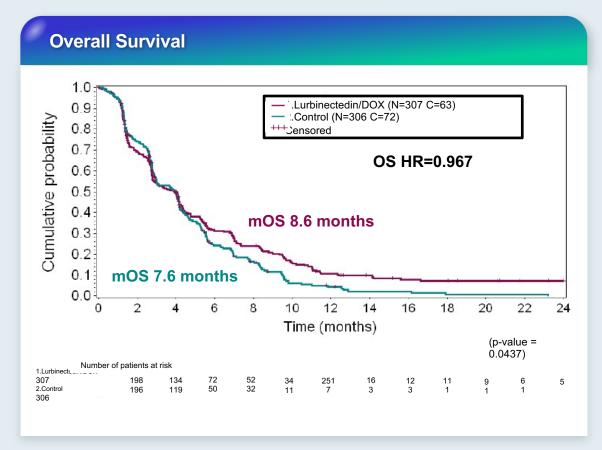
ATLANTIS: Phase III Trial Design

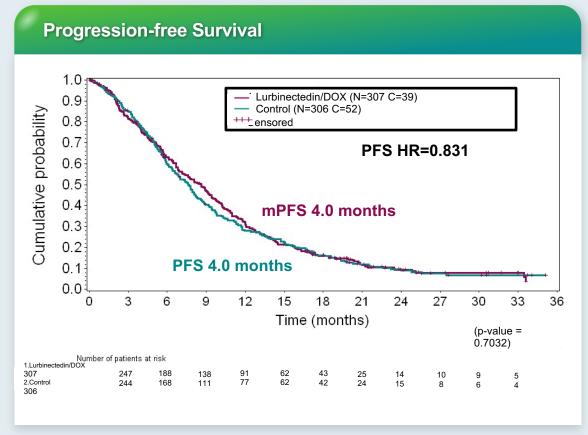


DOX = doxorubicin; OS = overall survival; CTFI = chemotherapy-free interval; CAV = cyclophosphamide, doxorubicin and vincristine



ATLANTIS: Lurbinectedin with Doxorubicin versus CAV or Topotecan for Patients with Relapsed SCLC





CAV = cyclophosphamide, doxorubicin and vincristine; DOX = doxorubicin; OS = overall survival; mOS = median OS; PFS = progression-free survival; mPFS = median PFS



ATLANTIS: Safety Summary

Hematological	Lurbinectedin+DOX (n=303)	Control (n=289)	
	Grade ≥3	Grade ≥3	p-value
Anaemia	44 (14.5)	90 (31.1)	<0.0001
Neutropenia	112 (37.0)	200 (69.2)	<0.0001
Febrile neutropenia	12 (4.0)	24 (8.3)	0.0377
Thrombocytopenia	42 (13.9)	90 (31.1)	<0.0001

Non hematological	Lurbinectedin+DOX (n=303)	Control (n=289)	
	Grade ≥3	Grade ≥3	p-value
ALT increased	6 (2.0)	3 (1.0)	0.5057
AP increased	2 (0.7)	3 (1.0)	0.6783
AST increased	7 (2.3)	4 (1.4)	0.5463
Fatigue	26 (8.6)	31 (10.7)	0.4051
Nausea	6 (2.0)	4 (1.4)	0.7525
Vomiting	4 (1.3)	0	0.1242

	Lurbinectedin+DOX (n=303) n (%)	Control (n=289) n (%)
Any AE treatment-related	268 (88.4)	266 (92.0)
Any grade ≥3 AE	143 (47.2)	218 (75.4)
Any grade 4 AE	49 (16.2)	158 (54.7)
Any grade ≥3 SAE	38 (12.5)	83 (28.7)
Death associated with AEs	1 (0.3)	10 (3.5)
Treatment discontinuations associated with AEs	23 (7.6)	45 (15.6)
Delays associated with AEs	79 (26.1)	99 (34.3)
Reductions associated with AEs	66 (21.8)	138 (47.8)

DOX = doxorubicin; AE = adverse event; SAE = serious AE



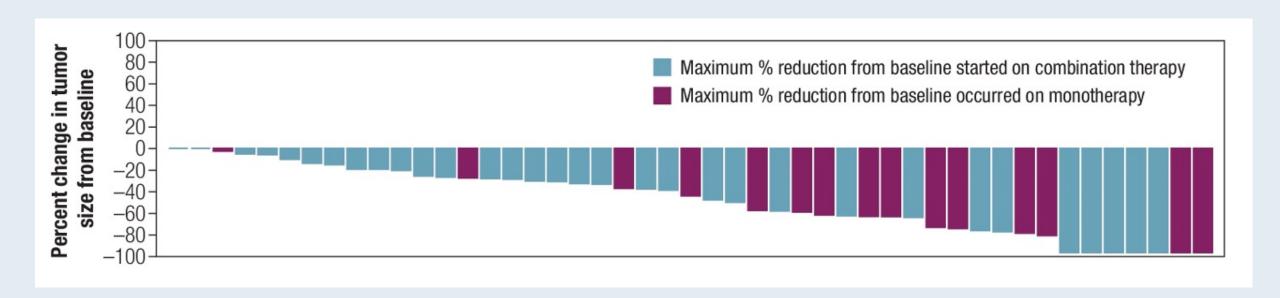
Analysis of Patients With Relapsed Small Cell Lung Cancer (SCLC) Receiving Single-agent Lurbinectedin in the Phase 3 ATLANTIS Trial

Alejandro Navarro, 1,* Santiago Ponce Aix, 2,3 Isidoro C. Barneto, 4 Egbert F. Smit, 5 José Antonio López-Vilariño, 6 Antonio Nieto, 6 Carmen Kahatt, 6 Ali Zeaiter, 6 Sophie Cousin, 7 Helge Bischoff, 8 Jaromir Roubec, 9 Konstantinos Syrigos, 10 Luis Paz-Ares3

ASCO 2022 | **Abstract 8524**

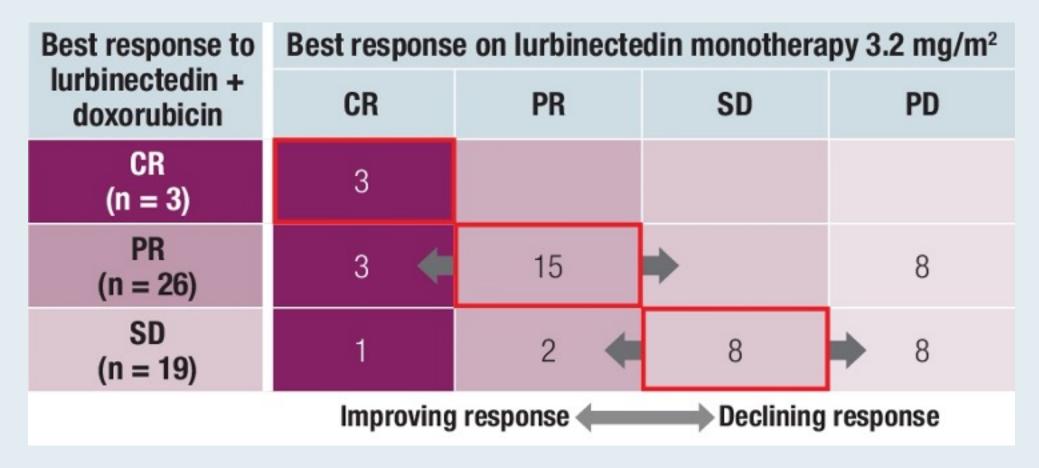


ATLANTIS: Change in Tumor Size from Baseline During Combination Therapy or Monotherapy (IRC)





ATLANTIS: Change in Tumor Size from Baseline During Combination Therapy or Monotherapy (IRC)



The majority (32/48) of patients who switched to lurbinectedin monotherapy maintained or improved the tumor response achieved on combination therapy (16 patients had progressive disease)



A Phase 1/2 Trial of Lurbinectedin (L) in Combination with Pembrolizumab (P) in Relapsed Small Cell Lung Cancer (SCLC): The LUPER Study

Calles A et al.

ASCO 2022; Abstract 8581.

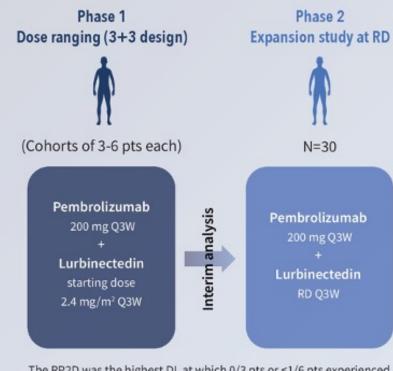


LUPER Phase I/II Study Design

Prospective phase I/II, multicenter, open-label study (NCT04358237)

Key inclusion criteria

- ≥18 years with confirmed SCLC
- ECOG PS 0-1
- Measurable disease as per RECIST v.1.1
- Progression to a CT-containing regimen (≥4 weeks before study initiation)
- Previous immunotherapy NOT allowed
- Pts with treated, stable, asymptomatic brain metastases (BMs) are allowed



The RP2D was the highest DL at which 0/3 pts or ≤1/6 pts experienced DLTs during the first cycle.

P and L will be administered Day 1 Q3W until disease progression, unacceptable toxicity, or consent withdrawal.

Primary endpoints

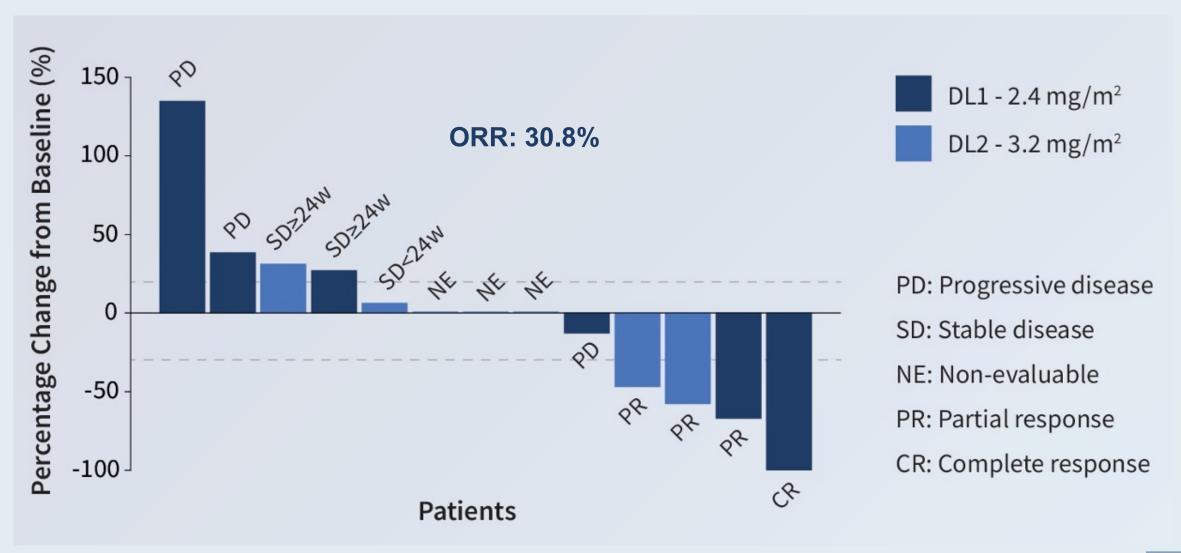
- Phase 1: MTD and RD of L in combination with P for phase II in pts with relapsed SCLC.
- Phase 2: Efficacy of L in combination with P in terms of ORR, according to RECIST 1.1, in pts with relapsed SCLC.

Secondary endpoints

 Safety as per CTCAE 5.0, preliminary efficacy, and pharmacokinetics.

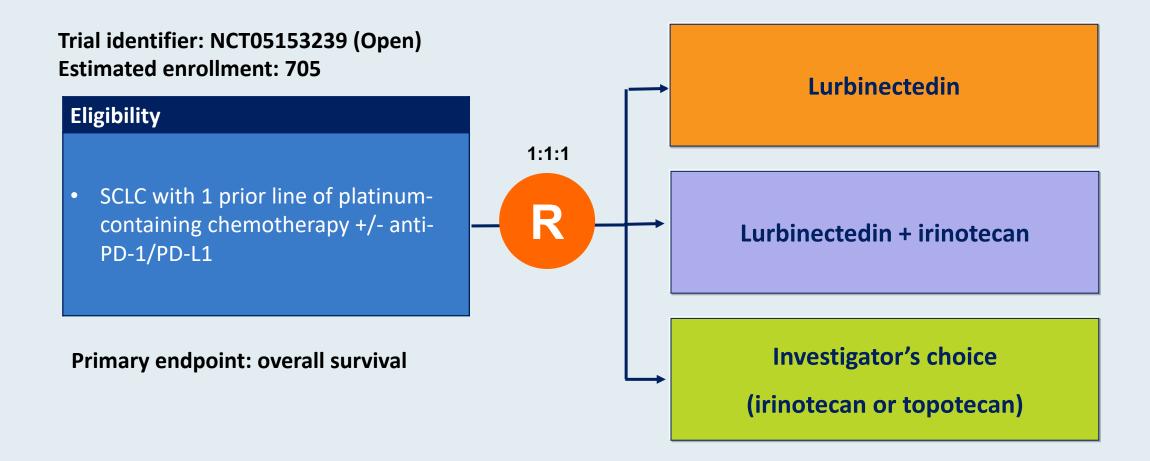


LUPER: Best Overall Response



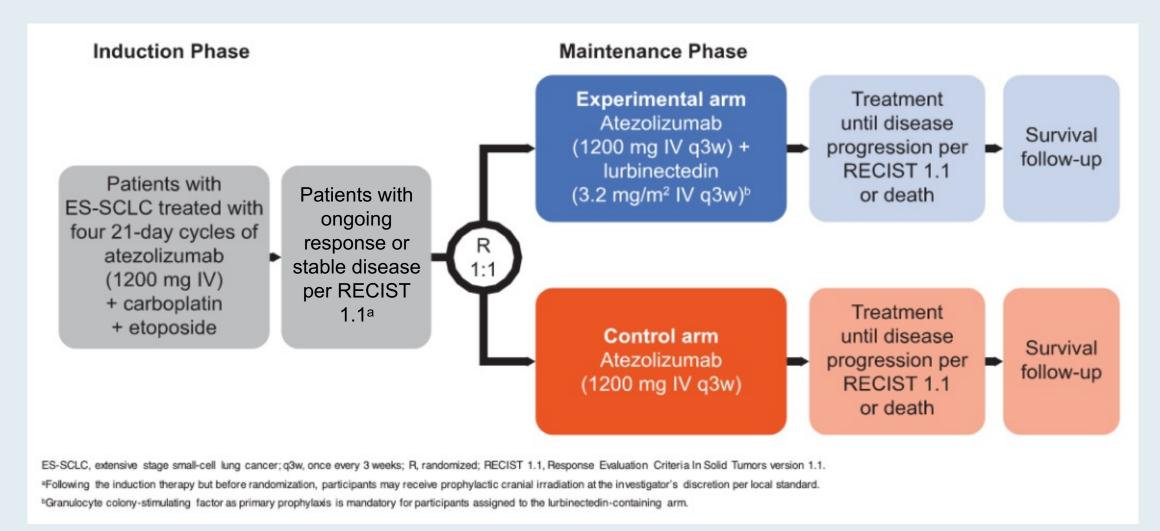


Ongoing Phase III LAGOON Study Design





IMforte Phase III Study Schema: Maintenance Therapy with Lurbinectedin and Atezolizumab versus Atezolizumab





Case Presentation: A 73-year-old man with synchronous Stage III SCLC and Stage I NSCLC who receives concurrent CRT



Dr Daniel Carrizosa (Charlotte, North Carolina)



Case Presentation: A 60-year-old woman with ES-SCLC who has a PR with chemo-IO but has a residual splenic hilar lymph node



Dr KS Kumar (Trinity, Florida)



Case Presentation: A 64-year-old woman with ES-SCLC who responds to chemo-IO but develops CNS oligometastasis on IO maintenance



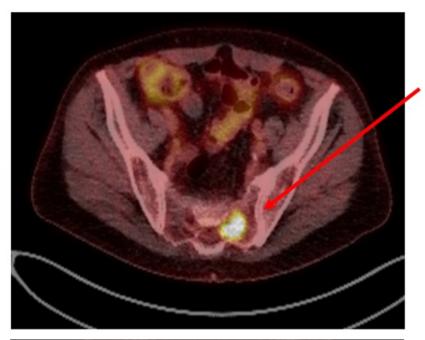
Dr Adam Miller (Danvers, Massachusetts)





Chest CT: Left hilar FDG-avid mass with FDG-avid mediastinal lymphadenopathy





Pelvis: FDG-avid bone metastasis



Liver: FDG-avid hepatic metastasis



Meet The Professor with Dr Sands

Introduction: Journal Club

MODULE 1: Case Presentations

MODULE 2: Appendix of Key Publications



First-Line Therapy for Extensive-Stage Small Cell Lung Cancer (ES-SCLC)



original reports

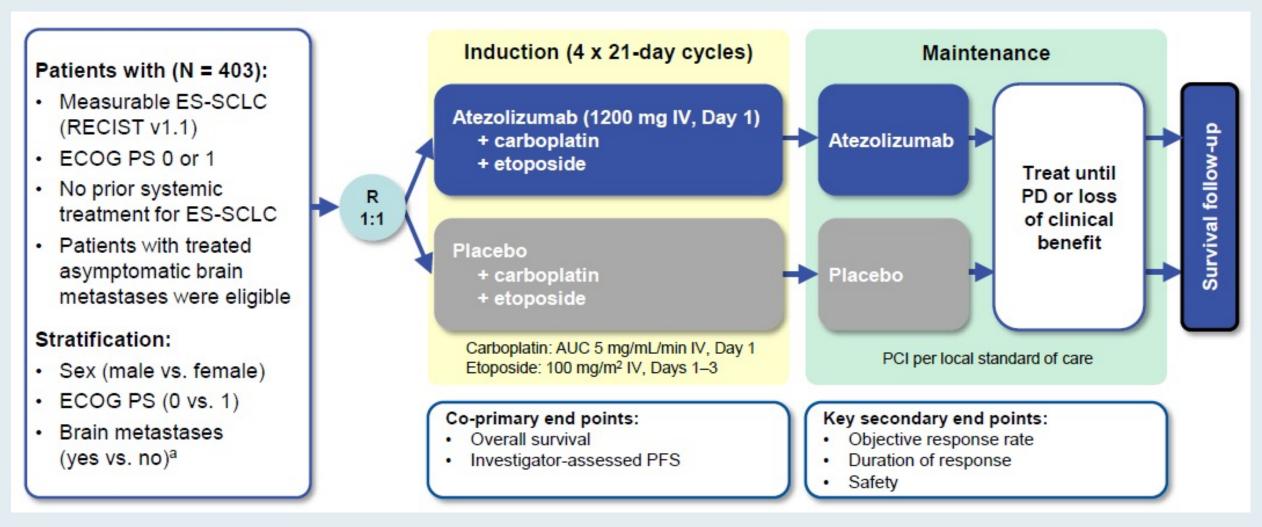
Updated Overall Survival and PD-L1 Subgroup Analysis of Patients With Extensive-Stage Small-Cell Lung Cancer Treated With Atezolizumab, Carboplatin, and Etoposide (IMpower133)

Stephen V. Liu, MD¹; Martin Reck, MD, PhD²; Aaron S. Mansfield, MD³; Tony Mok, MD⁴; Arnaud Scherpereel, MD, PhD⁵; Niels Reinmuth, MD, PhD⁶; Marina Chiara Garassino, MD⁷; Javier De Castro Carpeno, MD⁸; Raffaele Califano, MD⁹; Makoto Nishio, MD¹⁰; Francisco Orlandi, MD¹¹; Jorge Alatorre-Alexander, MD¹²; Ticiana Leal, MD¹³; Ying Cheng, MD¹⁴; Jong-Seok Lee, MD¹⁵; Sivuonthanh Lam, PharmD¹⁶; Mark McCleland, PhD¹⁶; Yu Deng, PhD¹⁶; See Phan, MD¹⁶; and Leora Horn, MD¹⁷

J Clin Oncol 2021;39(6):619-30.



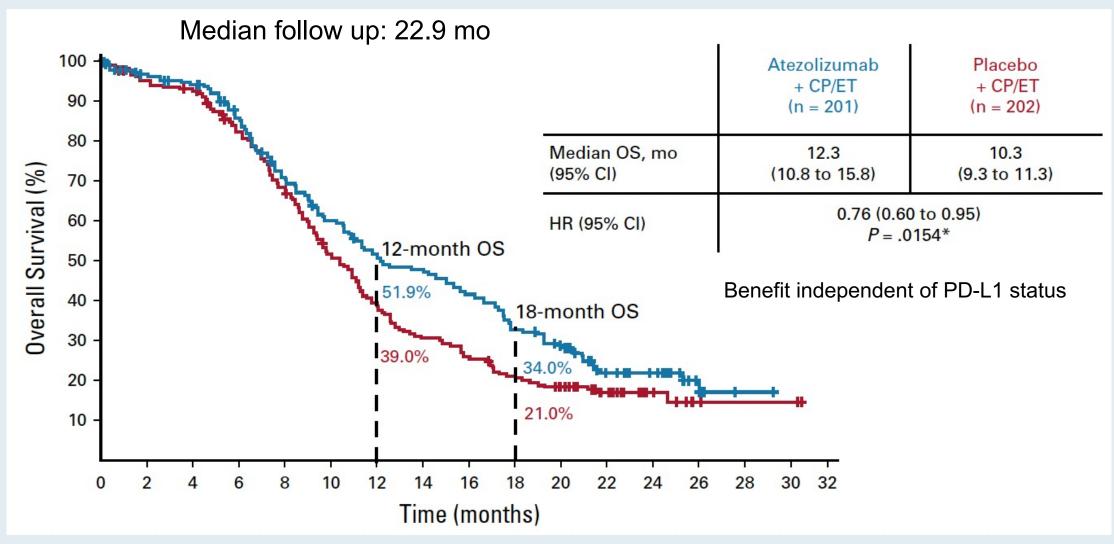
IMpower133: Phase III Study Design



ES-SCLC = extensive-stage small cell lung cancer; PD = disease progression; PFS = progression-free survival



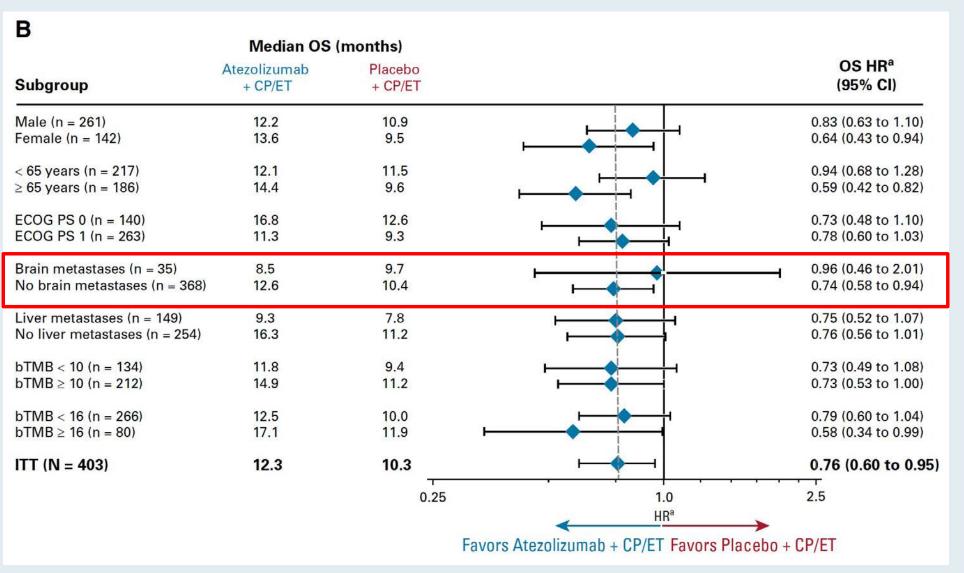
IMpower133: Updated OS (ITT Population)



OS = overall survival; CP = carboplatin; EP = etoposide



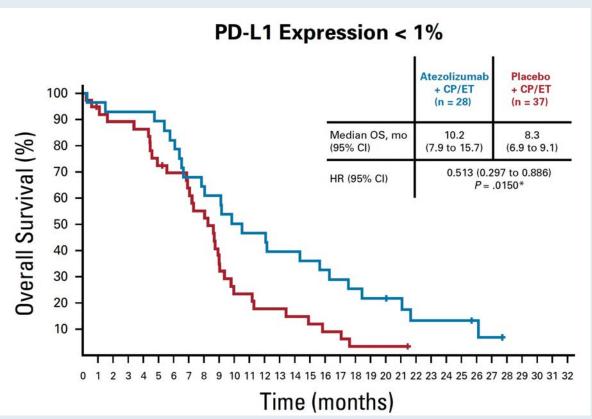
IMpower133: OS Subgroup Analyses

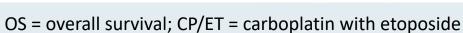


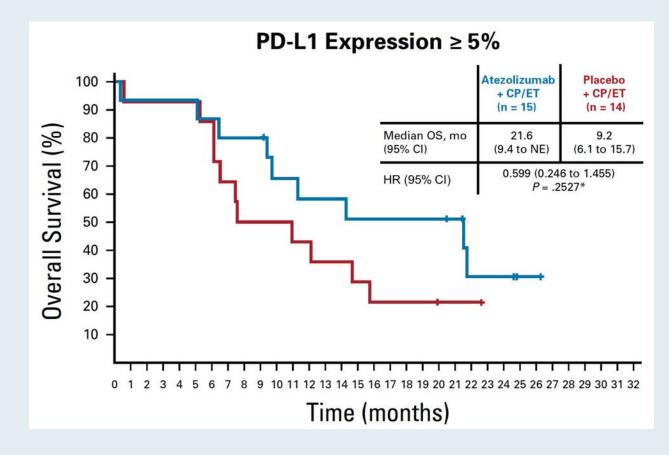
OS = overall survival; CP/ET = carboplatin with etoposide



IMpower133: OS by PD-L1 Expression (<1% versus ≥5%)









IMpower133: Adverse Events (AEs)

Patients — no. (%)	Atezolizumab + CP/ET (N = 198)	Placebo + CP/ET (N = 196)
Patients with ≥ 1 AE	198 (100)	189 (96.4)
Grade 3–4 AEs	133 (67.2)	125 (63.8)
Treatment-related AEsa	188 (94.9)	181 (92.3)
Serious AEs	74 (37.4)	68 (34.7)
Immune-related AEs	79 (39.9)	48 (24.5)
AEs leading to withdrawal from any treatment ^a	22 (11.1)	6 (3.1)
AEs leading to withdrawal from atezolizumab/placebo	21 (10.6)	5 (2.6)
AEs leading to withdrawal from carboplatin	5 (2.5)	1 (0.5)
AEs leading to withdrawal from etoposide	8 (4.0)	2 (1.0)
Treatment-related deaths	3 (1.5)	3 (1.5)

- Median duration of treatment with atezolizumab was 4.7 months (range: 0 to 21)
- Median number of doses received:
 - Atezolizumab: 7 (range: 1 to 30)
 - Chemotherapy: 4 doses for carboplatin; 12 doses for etoposide (same for both treatment groups)



ESMO Open 2022;7(2):100408.





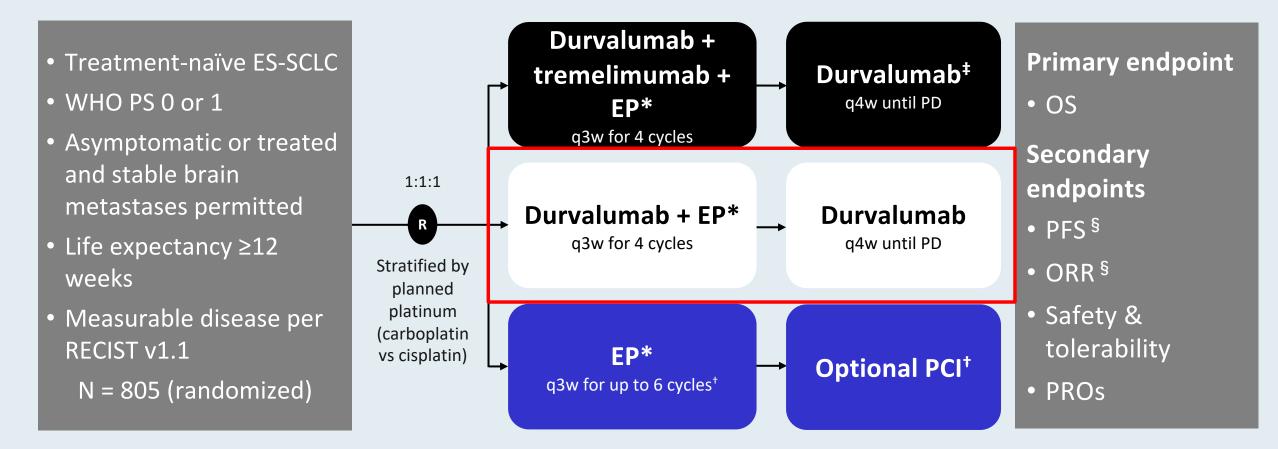
ORIGINAL RESEARCH

Durvalumab, with or without tremelimumab, plus platinum-etoposide in first-line treatment of extensive-stage small-cell lung cancer: 3-year overall survival update from CASPIAN **

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L. Paz-Ares<sup>1*</sup>, Y. Chen<sup>2</sup>, N. Reinmuth<sup>3</sup>, K. Hotta<sup>4</sup>, D. Trukhin<sup>5</sup>, G. Statsenko<sup>6</sup>, M. J. Hochmair<sup>7</sup>, M. Özgüroğlu<sup>8</sup>, J. H. Ji<sup>9</sup>, M. C. Garassino<sup>10,11</sup>, O. Voitko<sup>12</sup>, A. Poltoratskiy<sup>13</sup>, E. Musso<sup>14</sup>, L. Havel<sup>15</sup>, I. Bondarenko<sup>16</sup>, G. Losonczy<sup>17</sup>, N. Conev<sup>18</sup>, H. Mann<sup>19</sup>, T. B. Dalvi<sup>20</sup>, H. Jiang<sup>20</sup> & J. W. Goldman<sup>21</sup>
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CASPIAN: Phase III Study Design



^{*} EP consists of etoposide 80–100 mg/m² with either carboplatin AUC 5-6 or cisplatin 75-80 mg/m², durvalumab dosed at 1,500 mg, tremelimumab dosed at 75 mg

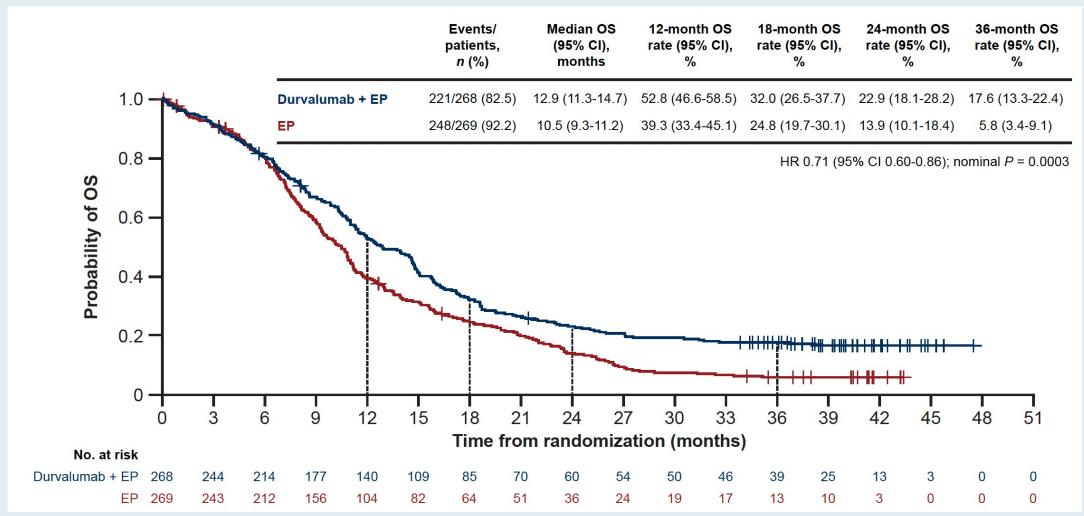
PS = performance status; PD = disease progression; PCI = prophylactic cranial irradiation; OS = overall survival; PFS = progression-free survival; ORR = objective response rate; PROs = patient-reported outcomes; AUC = area under the curve

Paz-Ares L et al. ASCO 2020; Abstract 9002.

[†] Patients could receive an additional 2 cycles of EP (up to 6 cycles total) and PCI at the investigator's discretion

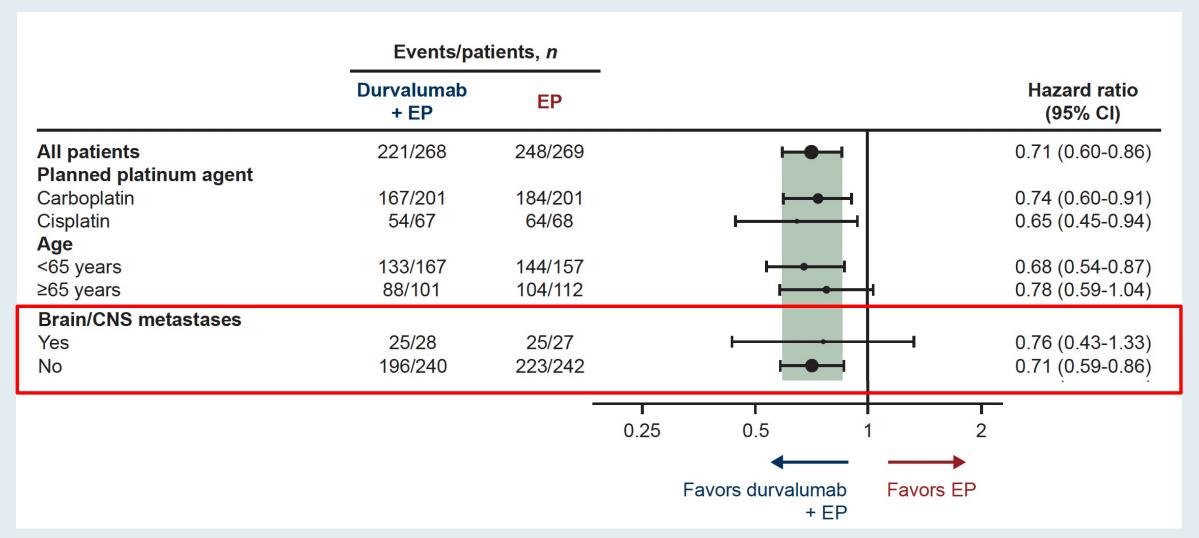
[‡] Patients received an additional dose of tremelimumab post-EP; § By investigator assessment per RECIST v1.1

CASPIAN OS (ITT Population): Durvalumab with EP versus EP



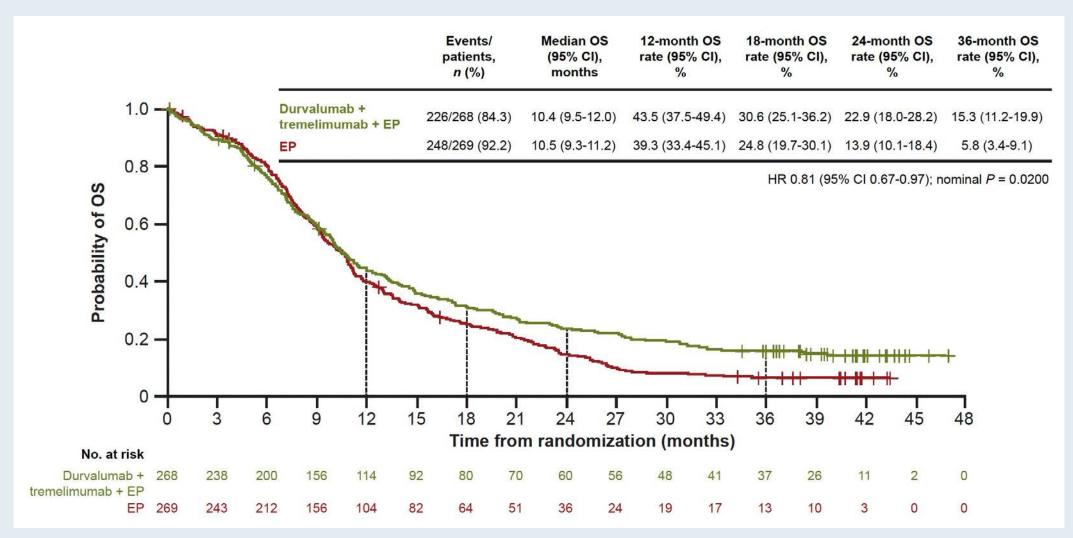


CASPIAN Forest Plot of OS: Durvalumab with EP versus EP



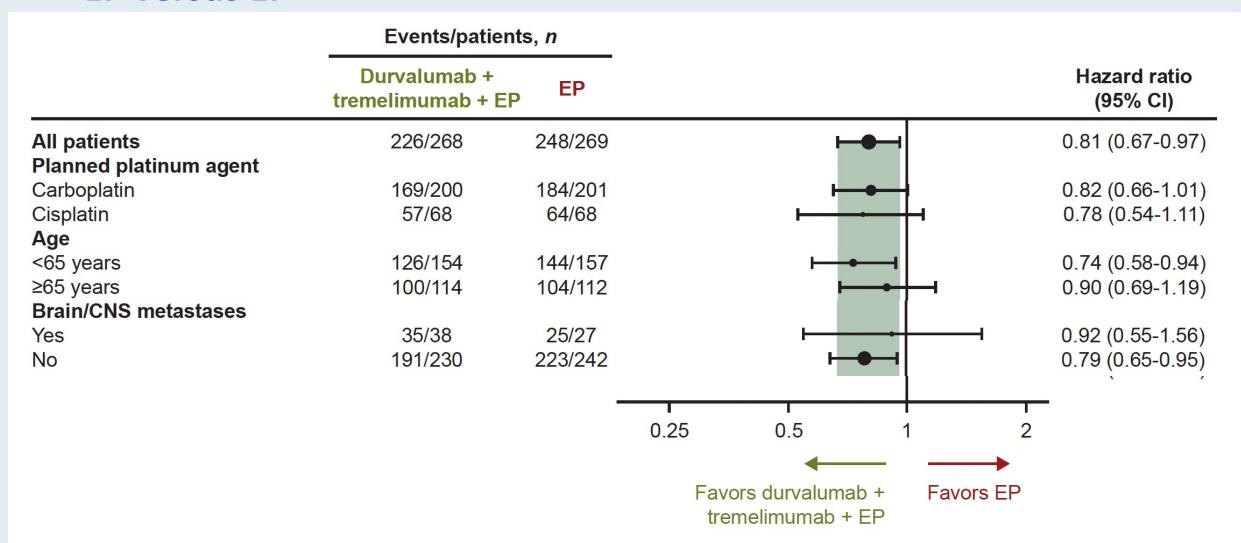


CASPIAN OS (ITT Population): Durvalumab with Tremelimumab and EP versus EP





CASPIAN Forest Plot of OS: Durvalumab with Tremelimumab and EP versus EP





CASPIAN: Response and Progression-Free Survival (PFS)

	Durvalumab plus EP ($n = 27$)	Durvalumab plus tremelimumab plus EP $(n = 19)$
Best objective response ^a		
Responders, n (%)	23 (85.2)	19 (100.0)
Complete response ^b	6 (22.2)	4 (21.1)
Partial response ^b	17 (63.0)	15 (78.9)
Non-responders, n (%)	4 (14.8)	0
Stable disease \geq 6 weeks	2 (7.4)	0
Progression	2 (7.4)	0
PFS ^a		
Progression events, n (%)	6 (22.2)	4 (21.1)
New lesions only	2 (7.4)	4 (21.1)
Target lesions only	4 (14.8)	0
PFS rate at 12 months, % (95% CI) ^c	85.2 (65.2-94.2)	84.2 (58.7-94.6)
PFS rate at 24 months, % (95% CI) ^c	81.5 (61.1-91.8)	78.9 (53.2-91.5)

EP = carboplatin or cisplatin with etoposide



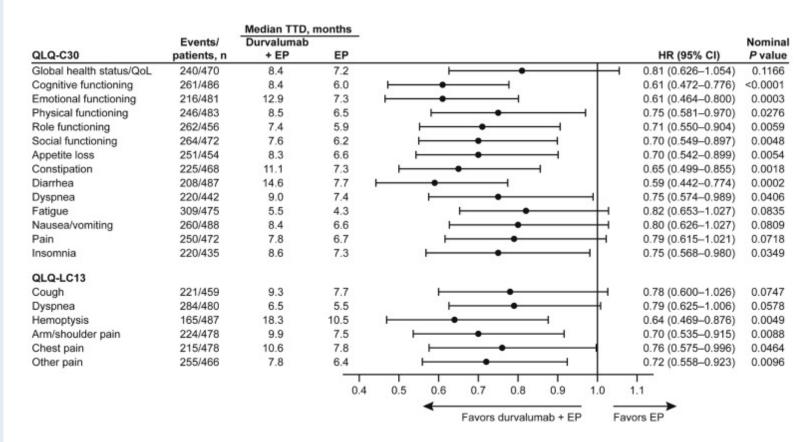
CASPIAN 3-Year Update: Serious Adverse Events

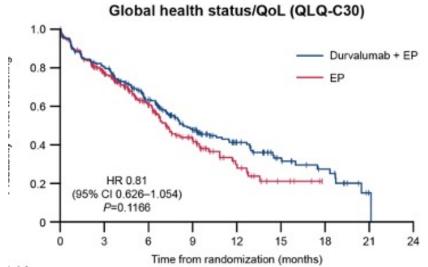
	D+EP (n=265)	D+T+EP (n=266)	EP (n=266)
Serious AEs (all cause), n (%)*	86 (32.5)	126 (47.4)	97 (36.5)
Febrile neutropenia	12 (4.5)	11 (4.1)	12 (4.5)
Pneumonia	6 (2.3)	16 (6.0)	11 (4.1)
Anaemia	5 (1.9)	9 (3.4)	12 (4.5)
Thrombocytopenia	1 (0.4)	6 (2.3)	9 (3.4)
Hyponatremia	2 (0.8)	9 (3.4)	4 (1.5)
Neutropenia	2 (0.8)	5 (1.9)	7 (2.6)
Diarrhoea	2 (0.8)	7 (2.6)	4 (1.5)
Pulmonary embolism	1 (0.4)	7 (2.6)	0
AEs leading to death (all cause), n (%) [†]	14 (5.3)	29 (10.9)	16 (6.0)
Treatment-related AEs leading to death	6 (2.3)	12 (4.5)	2 (0.8)

D = durvalumab; EP = carboplatin or cisplatin with etoposide; T = tremelimumab; AEs = adverse events

Paz-Ares LG et al. ESMO 2021; Abstract LBA61.

CASPIAN: Quality of Life





EP = carboplatin or cisplatin with etoposide; QoL = quality of life; D = durvalumab

Goldman JW et al. Lung Cancer 2020;149:46-52.

LUMINANCE: A Phase IIIb Study of Durvalumab plus Platinum-Etoposide for the First-Line Treatment of Extensive-Stage SCLC

Reinmuth N et al.

IASLC 2022; Abstract EP14.05-015.

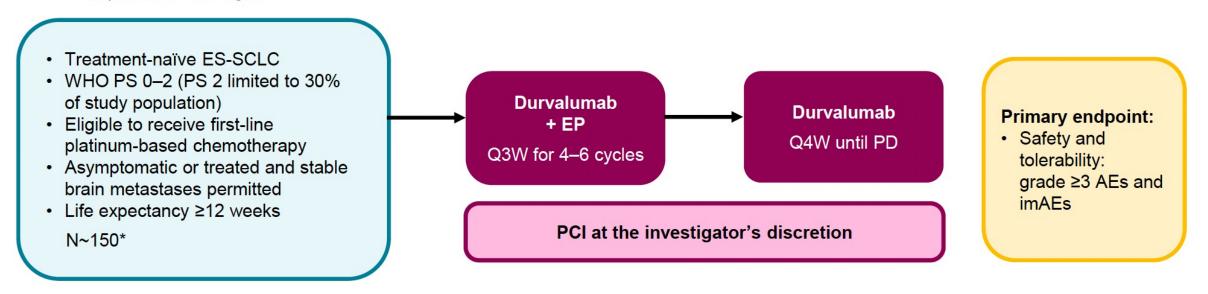
LUMINANCE Phase IIIb Study Rationale

- In common with most registrational Phase III studies, the patient inclusion and exclusion criteria in CASPIAN resulted in a study population that did not fully represent that encountered in real-world clinical practice.
 - Many patients with ES-SCLC have poor performance status (WHO PS ≥2) at diagnosis, but recruitment in CASPIAN was limited to patients with WHO PS 0 or 1.
 - Although 4 cycles of EP is standard for ES-SCLC, an additional 2 cycles are often administered;
 in CASPIAN up to 6 cycles were permitted in the etoposide (EP) arm only.
 - The role of prophylactic cranial irradiation (PCI) remains controversial in ES-SCLC, but is sometimes used in the real world at the discretion of the treating physician; in CASPIAN, PCI was permitted only in the EP arm.
- The Phase IIIb LUMINANCE study will provide safety and efficacy data for patients with ES-SCLC, including those with WHO PS 2, with durvalumab in combination with up to 6 cycles of EP, with or without PCI, to help inform treatment decisions in real-world practice.
- In addition, LUMINANCE will potentially help address important scientific questions, including the identification of potential biomarkers to distinguish patients who might benefit most from durvalumab.



LUMINANCE Phase IIIb Study Design

- The safety and efficacy of durvalumab in combination with up to 6 cycles of EP, with or without PCI, will be evaluated in ~150 patients with previously untreated ES-SCLC, including patients with WHO PS 2.
- Durvalumab will be administered intravenously concurrently with platinum-based chemotherapy (investigator's choice of cisplatin or carboplatin) and etoposide Q3W for 4–6 cycles, followed by durvalumab Q4W until PD.
 - Drug dosages: durvalumab 1500 mg; cisplatin 75–80 mg/m² or carboplatin AUC5–6 (for patients with WHO PS 2, a dose of AUC4 is permitted); etoposide 80–100 mg/m².







ASTRUM-005:

Serplulimab, A Novel Anti-PD-1 Antibody, Plus Chemotherapy versus Chemotherapy as First-Line Treatment for Extensive-Stage Small-Cell Lung Cancer: An International Randomized Phase 3 Study

Ying Cheng, MD

Jilin Cancer Hospital, Changchun, China

Ying Cheng¹, Liang Han², Lin Wu³, Jun Chen⁴, Hongmei Sun⁵, Guilan Wen⁶, Yinghua Ji⁷, Mikhail Dvorkin⁸, Jianhua Shi⁹, Zhijie Pan¹⁰, Jinsheng Shi¹¹, Xicheng Wang¹², Yuansong Bai¹³, Tamar Melkadze¹⁴, Yueyin Pan¹⁵, Xuhong Min¹⁶, Maksym Viguro¹⁷, Wenying Kang¹⁸, Qingyu Wang¹⁸, Jun Zhu¹⁸, ASTRUM-005 Investigators;

¹Jilin Cancer Hospital, Changchun, China; ²Xuzhou Central Hospital, Xuzhou, China; ³Hunan Cancer Hospital, Changsha, China; ⁴Tianjin Medical University General Hospital, Tianjin, China; ⁶Jiamusi Cancer Hospital, Jiamusi, China; ⁶The First Affiliated Hospital of Nanchang University, Nanchang, China; ⁷The First Affiliated Hospital of Xinxiang Medical University, Xinxiang, China; Budgetary Healthcare Institution of Omsk Region "Clinical Oncology Dispensary", Omsk. Russia: Blinyi Cancer Hospital, Linyi, China: 10 The First Affiliated Hospital of Zheijang University School of Medicine, Hangzhou, China; ¹¹Cangzhou People's Hospital, Cangzhou, China; ¹²The First Affiliated Hospital of Guangdong Pharmaceutical University, Guangzhou, China; ¹³China-Japan Union Hospital of Jilin University, Changchun, China; 14Acad. Fridon Todua Medical Center, Research Institute of Clinical Medicine, Tbilisi, Georgia; 15Anhui Provincial Hospital, Hefei, China; 16Anhui Chest Hospital, Hefei, China; 17Medical Center "Mriya Med-Service", Kryvyi Rih, Ukraine; 18Shanghai Henlius Biotech, Inc., Shanghai, China



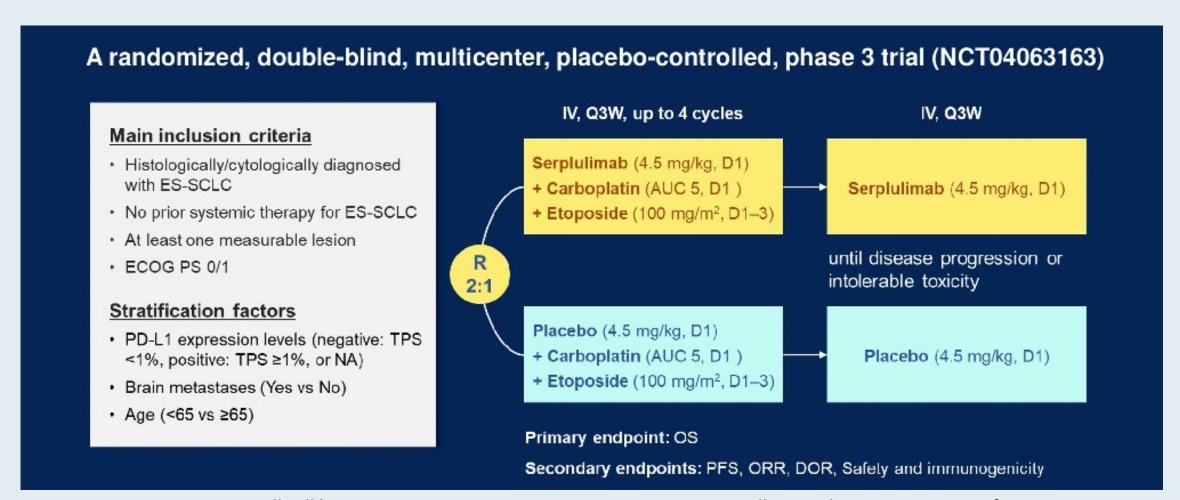








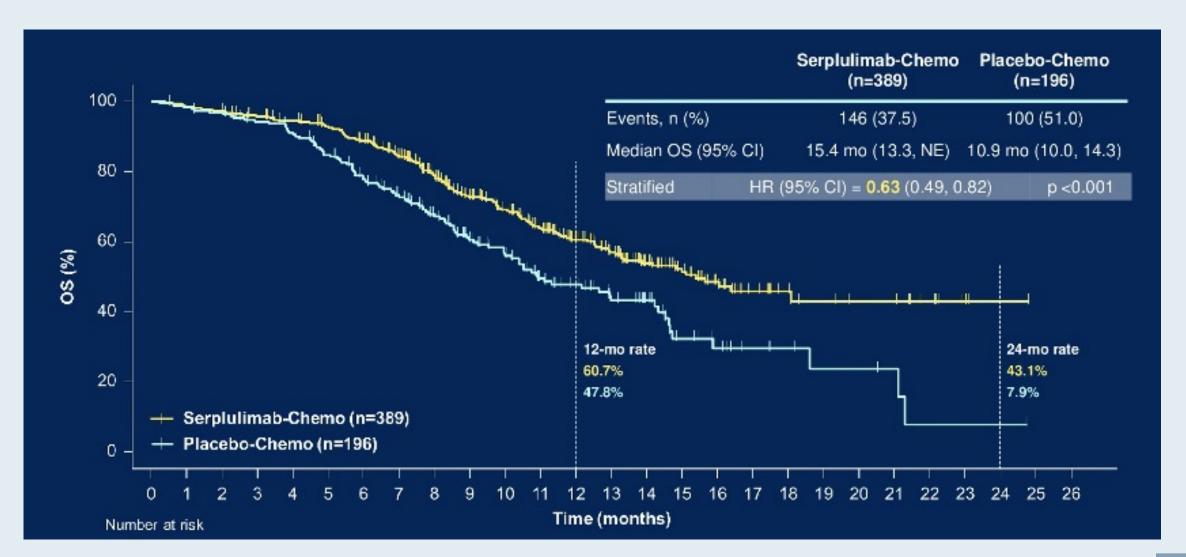
ASTRUM-005 Study Design



ES-SCLC = extensive-stage small cell lung cancer; TPS = tumor proportion score; OS = overall survival; PFS = progression-free survival; ORR = objective response rate; DOR = duration of response

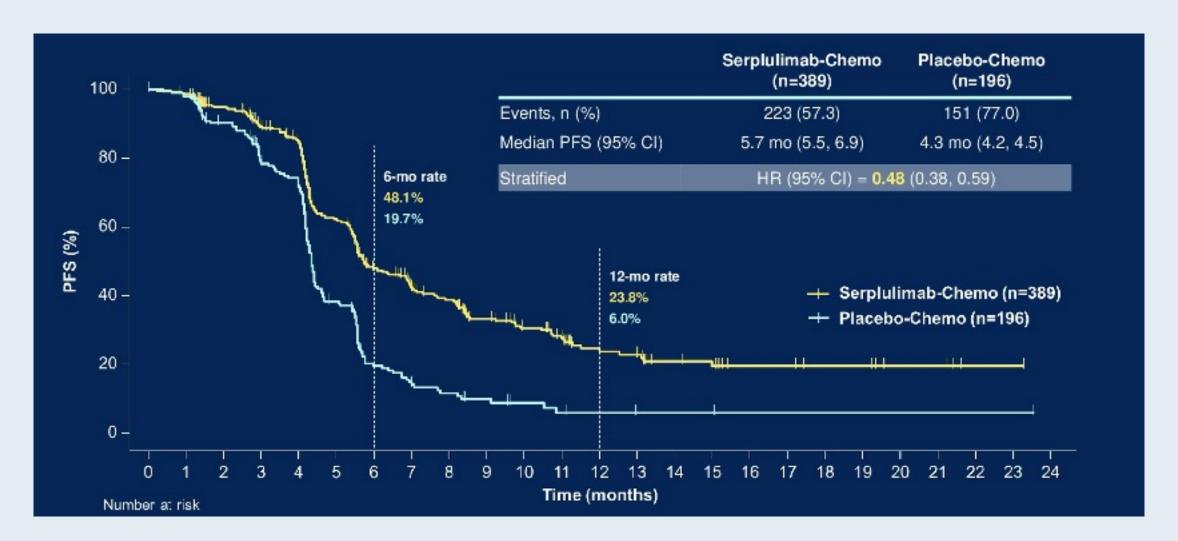


ASTRUM-005: Overall Survival (OS)





ASTRUM-005: Progression-Free Survival (PFS)





ASTRUM-005: Response

	Serplulimab-Chemo (n=389)	Placebo-Chemo (n=196)	100 - 90 -	80.2	70.4
ORR, n (%) [95% CI]	312 (80.2) [75.9, 84.1]	138 (70.4) [63.5, 76.7]	80 - % 70 - 60 -		70.4
Best overall response, n (%)			℧ 60 - % 50		
CR	3 (0.8)	0	ORR (95% 20 -		
PR	309 (79.4)	138 (70.4)	ORR 30 -		
SD	49 (12.6)	37 (18.9)	20 -		
PD	9 (2.3)	11 (5.6)	10 -		
NE or missing	19 (4.9)	10 (5.1)	0	Serplulimab-Chemo (n=389)	Placebo-Chen (n=196)

ORR = objective response rate; CR = complete response; PR = partial response; SD = stable disease; PD = disease progression; NE = not estimable



ASTRUM-005: Safety Profile

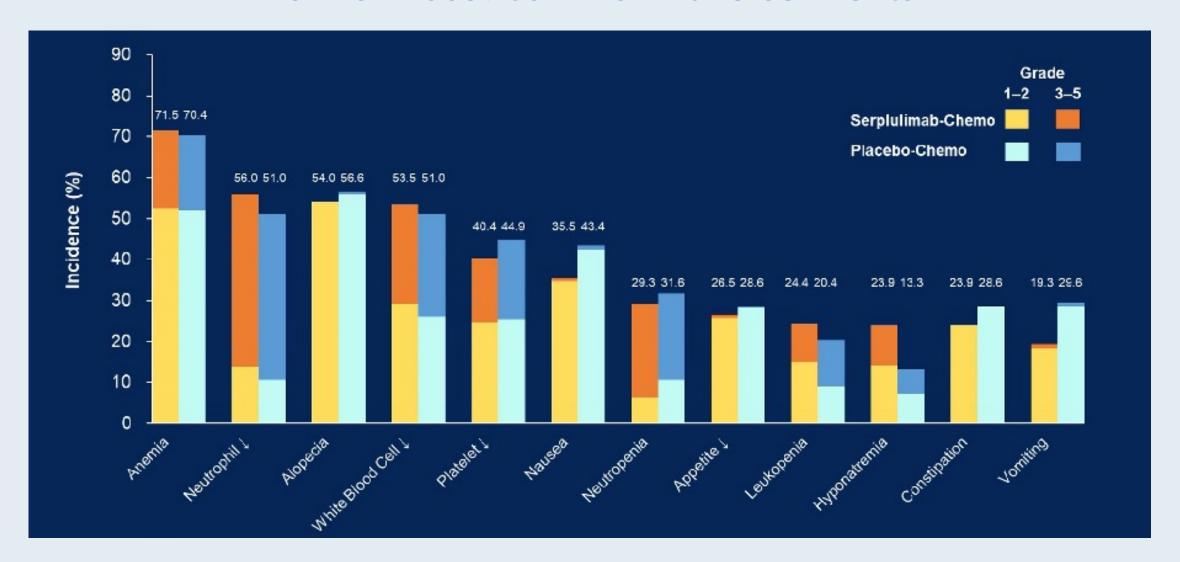
	Serplulimab-Chemo (n=389)	Placebo-Chemo (n=196)
TEAEs, n (%)	372 (95.6)	191 (97.4)
CTCAE grade ≥3	321 (82.5)	157 (80.1)
SAEs	136 (35.0)	69 (35.2)
AESIs		
IRRs	7 (1.8)	1 (0.5)
irAEs	144 (37.0)	36 (18.4)
TRAEs related to serplulimab/placebo, n (%)	272 (69.9)	110 (56.1)
CTCAE grade ≥3	129 (33.2)	54 (27.6)
Leading to treatment discontinuation	19 (4.9)	8 (4.1)
Leading to death	3 (0.8)	1 (0.5)

The most common irAEs in serplulimab group were: hypothyroidism (11.6%), hyperthyroidism (9.0%), and rash (3.1%)

TEAEs = treatment-emergent adverse events; CTCAE = Common Terminology Criteria for Adverse Events; SAEs = serious adverse events; AESIs = adverse events of special interest; IRRs = infusion-related reactions; irAEs = immune-related adverse events



ASTRUM-005: Common Adverse Events





Novel PD-1 Inhibitor Serplulimab Granted Orphan Drug Designation by FDA for SCLC

Press Release: April 9, 2022

"The FDA has granted serplulimab an orphan drug designation for the treatment of small cell lung cancer (SCLC), according to a press release from [its] developer.

The designation was granted to continue the development of serplulimab and to take advantage of a policy that allows for better support of registration and commercialization within the United States. Further plans in 2022 for serplulimab include submitting a new drug application in China and a marketing authorization application in Europe, which could potentially make serplulimab the first PD-1 inhibitor to be used in the frontline setting for patients with SCLC.

Serplulimab was also assessed in combination with chemotherapy in a phase 3 trial (NCT04063163) of patients with previously untreated extensive-stage SCLC (ES-SCLC). At the first interim analysis, the combination met the primary end point, yielding a significant improvement in overall survival (OS) compared with chemotherapy alone. Additionally, the combination demonstrated a positive safety profile with no new safety findings."



Lancet Oncol 2022;23(6):739-47.

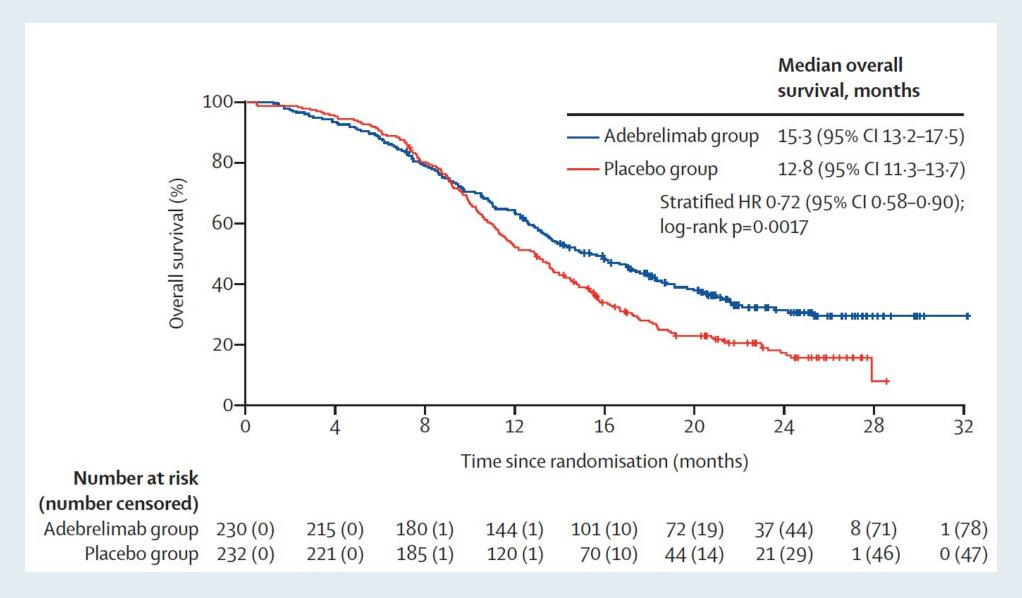
Adebrelimab or placebo plus carboplatin and etoposide as first-line treatment for extensive-stage small-cell lung cancer (CAPSTONE-1): a multicentre, randomised, double-blind, placebo-controlled, phase 3 trial



Jie Wang, Caicun Zhou, Wenxiu Yao, Qiming Wang, Xuhong Min, Gongyan Chen, Xingxiang Xu, Xingya Li, Fei Xu, Yong Fang, Runxiang Yang, Guohua Yu, Youling Gong, Jun Zhao, Yun Fan, Quan Liu, Lejie Cao, Yu Yao, Yunpeng Liu, Xiaoling Li, Jingxun Wu, Zhiyong He, Kaihua Lu, Liyan Jiang, Chengping Hu, Wenhua Zhao, Ben Zhang, Wei Shi, Xiaojing Zhang, Ying Cheng, for the CAPSTONE-1 Study Group*

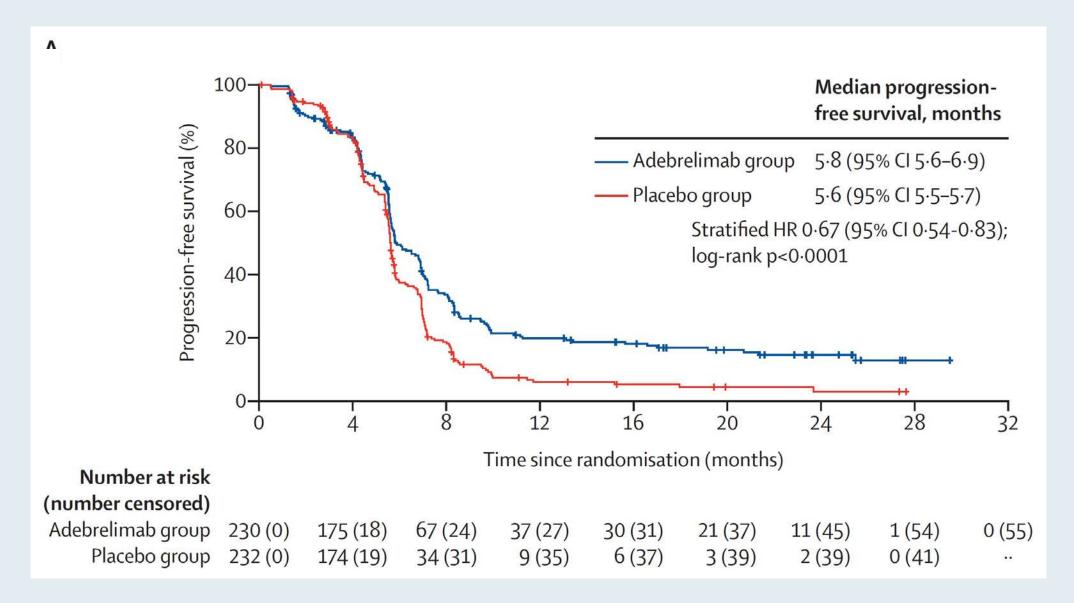


CAPSTONE-1: Overall Survival





CAPSTONE-1: Progression-Free Survival





CAPSTONE-1: Treatment-Related Adverse Events (>15%)

	Adebrelimab group (n=230)		Placebo group (n=232)					
	Grade 1-2	Grade 3	Grade 4	Grade 5	Grade 1–2	Grade 3	Grade 4	Grade 5
Any treatment-related adverse event	32 (14%)	85 (37%)	110 (48%)	2 (1%)	32 (14%)	110 (47%)	85 (37%)	2 (1%)
Neutrophil count decreased	44 (19%)	82 (36%)	92 (40%)	0	45 (19%)	103 (44%)	72 (31%)	0
White blood cell count decreased	111 (48%)	99 (43%)	7 (3%)	0	127 (55%)	78 (34%)	10 (4%)	0
Platelet count decreased	103 (45%)	65 (28%)	23 (10%)	0	113 (49%)	56 (24%)	22 (9%)	0
Alanine aminotransferase increased	90 (39%)	5 (2%)	0	0	69 (30%)	4 (2%)	0	0
Aspartate aminotransferase increased	78 (34%)	2 (1%)	1 (<1%)	0	56 (24%)	4 (2%)	0	0
γ-glutamyltransferase increased	24 (10%)	4 (2%)	0	0	22 (9%)	1 (<1%)	0	0
Anaemia	131 (57%)	63 (27%)	1 (<1%)	0	141 (61%)	66 (28%)	0	0
Nausea	90 (39%)	2 (1%)	0	0	107 (46%)	0	0	0
Vomiting	58 (25%)	2 (1%)	0	0	53 (23%)	1 (<1%)	0	0
Constipation	40 (17%)	0	0	0	42 (18%)	0	0	0
Alopecia	102 (44%)	0	0	0	98 (42%)	0	0	0
Decreased appetite	63 (27%)	5 (2%)	0	0	60 (26%)	2 (1%)	0	0
Hypoalbuminaemia	26 (11%)	0	0	0	24 (10%)	0	0	0
Asthenia	41 (18%)	1 (<1%)	0	0	44 (19%)	1 (<1%)	0	0







Abstract OA12.05

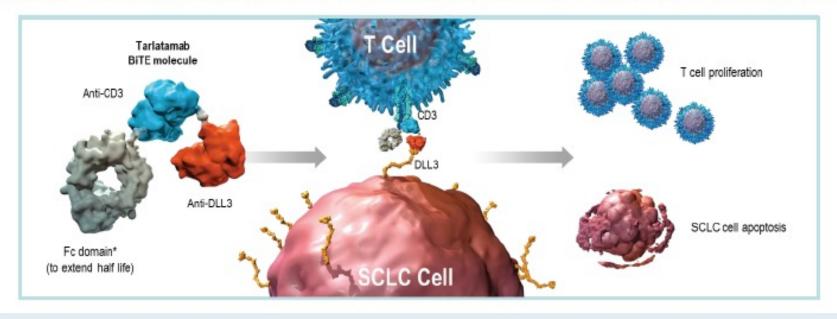
Phase 1 Updated Exploration and First Expansion Data for DLL3-Targeted T-cell Engager Tarlatamab in SCLC (DeLLphi-300 Study)

Hossein Borghaei,^{1*} Luis Paz-Ares,² Melissa Johnson,³ Stephane Champiat,⁴ Taofeek Owonikoko,⁵ Victoria Lai,⁶ Michael Boyer,⁷ Horst-Dieter Hummel,⁸ Ramaswamy Govindan,⁹ Neeltje Steeghs,¹⁰ Fiona Blackhall,¹¹ Noemi Reguart,¹² Afshin Dowlati,¹³ Yiran Zhang,¹⁴ Nooshin Hashemi Sadraei,¹⁴ Amanda Goldrick,¹⁴ Hiroki Izumi¹⁵

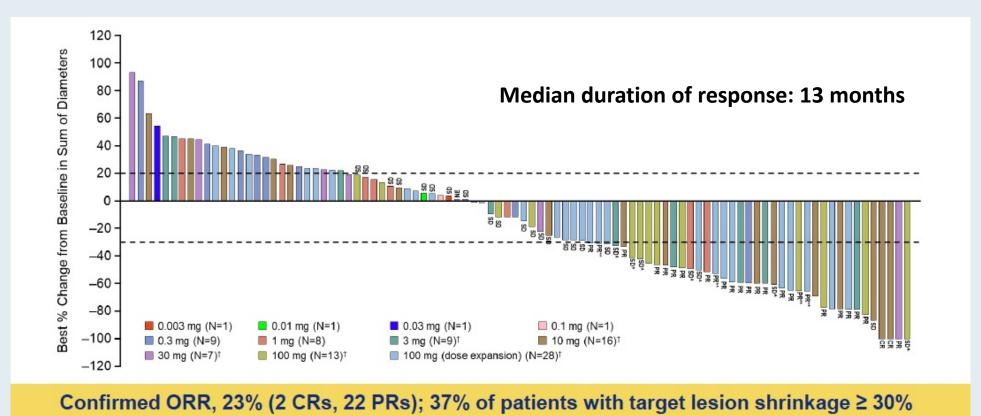


AMG 757: A Half-Life Extended BiTE (Bispecific T-Cell Engager) Targeting DLL3 for SCLC

- Notch ligand delta-like ligand 3 (DLL3) is aberrantly expressed on the surface of SCLC cells
- Tarlatamab is a bispecific T cell engager (BiTE®) immune therapy that binds DLL3 and CD3 leading to T cell-mediated tumor lysis
 - Interim phase 1 dose exploration data show preliminary efficacy and acceptable safety in SCLC patients



DelLphi-300: Summary of Tarlatamab (AMG 757) Efficacy in a Phase I Study for Previously Treated SCLC



† Indicates step dosing with 1 mg run-in dose. Plot includes patients who received ≥ 1 dose of tarlatamab, had at least 9 weeks follow-up after first dose of tarlatamab, and had sum of diameters available in post-baseline assessments. Unlabeled bars include confirmed and unconfirmed PD. CR, complete response; NE, not evaluable; ORR, objective response rate; PR, partial response; SD, stable disease. PR** indicates patients had an initial PR and still have potential for future confirmative scans; SD^ indicates patients had an initial response but did not have confirmation of response on the subsequent scan.

- Median progression-free survival: 3.7 months
- Median overall survival: 13.2 months



Delliphi-300: Treatment-Related Adverse Events Summary for Tarlatamab

	Patients (N = 106)		
Treatment-related AEs (by preferred term)	All Grades, n (%)	Grade ≥ 3, n (%)*	
Any treatment-related AE	97 (92)	33 (31)	
Treatment-related AEs occurring in > 15% of patients (by preferred term)			
CRS	56 (53)	1 (1)	
Pyrexia	40 (38)	2 (2)	
Dysgeusia	24 (23)	0	
Fatigue	23 (22)	3 (3)	
Nausea	21 (20)	0	

 ^{4/106 (4%)} patients discontinued tarlatamab due to treatment-related AEs: encephalopathy (n=1), neurotoxicity (n=1), and pneumonitis (n=2, including one grade 5 AE)

Tarlatamab showed a manageable safety profile across evaluated doses

*Includes one patient with grade 5 pneumonitis; AE, adverse event; CRS, cytokine release syndrome.



DelLphi-300: Treatment-Related Adverse Events of Interest for Tarlatamab

	All Patients	s (N = 106)
Events of Interest (AMQN)	All grades n (%)	Grade ≥ 3 n (%)
CRS*	56 (53)	1 (1)
Neurologic events†	53 (50)	7 (7)
Neutropenia [‡]	17 (16)	10 (9)

- CRS AEs (Lee, 2014) were mostly grade 1, occurred in cycle 1 and rarely recurred in subsequent cycles, and were generally manageable; no grade 4/5 CRS
 - 8/106 patients [8%] required tocilizumab for CRS
- Treatment-related neurologic events (NEs) were predominantly grade 1 and either dysgeusia or headache
 - Confusion was the most common grade ≥ 3 treatment-related NE (n=5). Confusion was the only grade 4 NE on the study (n=1)
- Grade 4 treatment-related neutropenia occurred in 4 patients (4%); no cases of febrile neutropenia

AMQN, Amgen MedDRA query narrow; CRS, cytokine release syndrome; NE, neurologic event. CRS includes cytokine abnormal, cytokine release syndrome, cytokine test; *Neurologic Events based on "Central neuropsychiatric events due to direct neurotoxicities" search and was graded using CTCAE version 4.0; *Neutropenia based on AMQN search and graded using CTCAE version 4.0.





SKYSCRAPER-02: Primary results of a phase III, randomized, double-blind, placebo-controlled study of atezolizumab + carboplatin + etoposide with or without tiragolumab in patients with untreated extensive-stage small cell lung cancer

Charles M. Rudin, ¹ Stephen V. Liu, ² Shun Lu, ³ Ross A. Soo, ⁴ Min Hee Hong, ⁵ Jong-Seok Lee, ⁶ Maciej Bryl, ⁷ Daphne Dumoulin, ⁸ Achim Rittmeyer, ⁹ Chao-Hua Chiu, ¹⁰ Ozgur Ozyilkan, ¹¹ Alejandro Navarro, ¹² Silvia Novello, ¹³ Yuichi Ozawa, ¹⁴ Anthony Lee, ¹⁵ Meilin Huang, ¹⁵ Xiaohui Wen, ¹⁵ Tien Hoang, ¹⁵ Raymond Meng, ¹⁵ Martin Reck ¹⁶

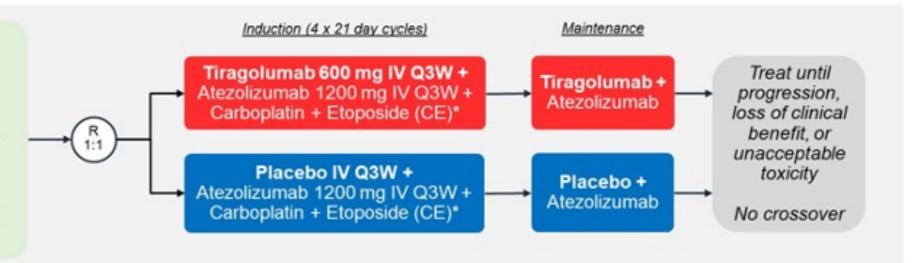


SKYSCRAPER-02: Phase III Trial Schema

1L ES-SCLC

- ECOG PS 0-1
- Measurable disease
- No prior systemic treatment for ES disease
- Patients with treated or untreated asymptomatic brain metastases eligible

N=490



Stratification Factors:

- ECOG PS (0 vs. 1)
- · Brain metastases (Yes vs. No)
- LDH (≤ ULN vs. > ULN)

Co-Primary Endpoints:

 OS and investigator-assessed PFS in Primary Analysis Set (all randomized patients without presence or history of brain metastases at baseline)

Secondary Endpoints:

- PFS and OS in Full Analysis Set (all randomized patients)
- Confirmed objective response rate
- Duration of response
- Safety
- Pharmacokinetics
- PROs

Primary analysis

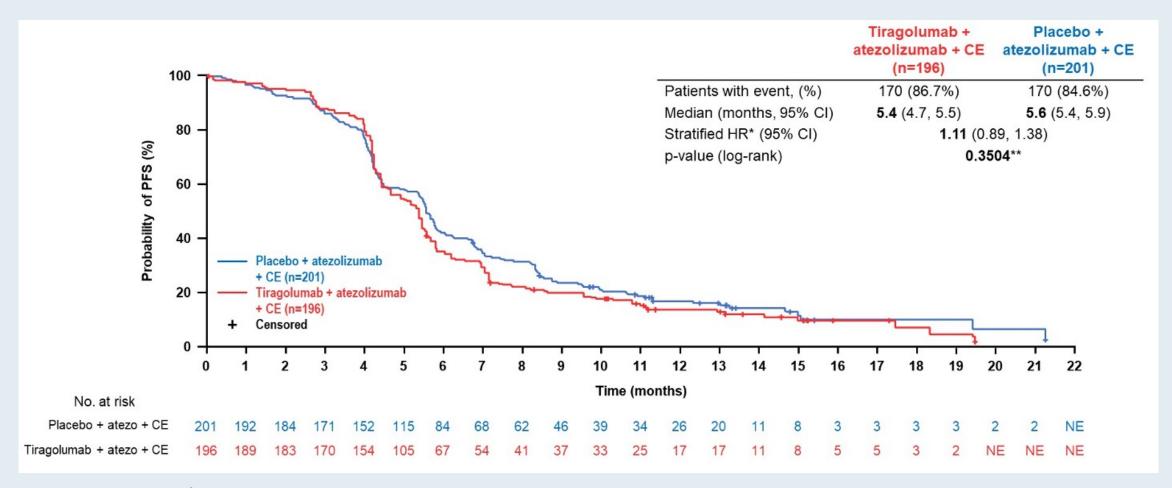
- Cut-off date of 6 February 2022
- Median follow-up of 14.3 months (Primary Analysis Set)

NCT04256421

*Carboplatin IV AUC 5 mg/mL per min Q3W and etoposide IV 100mg/m² body surface area days 1-3 Q3W



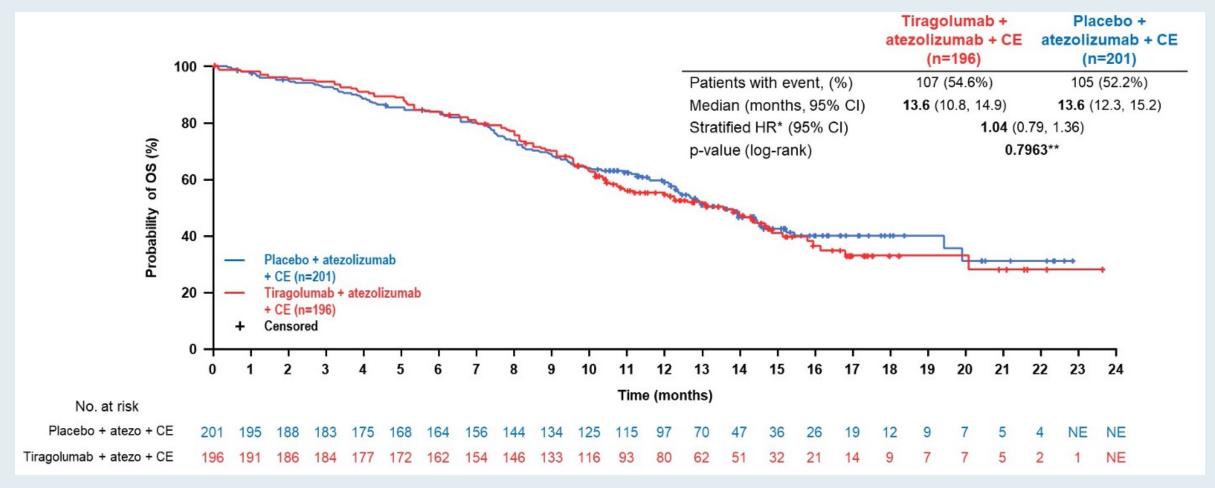
SKYSCRAPER-02: PFS in the Primary Analysis Set



PFS = progression-free survival; CE = carboplatin and etoposide



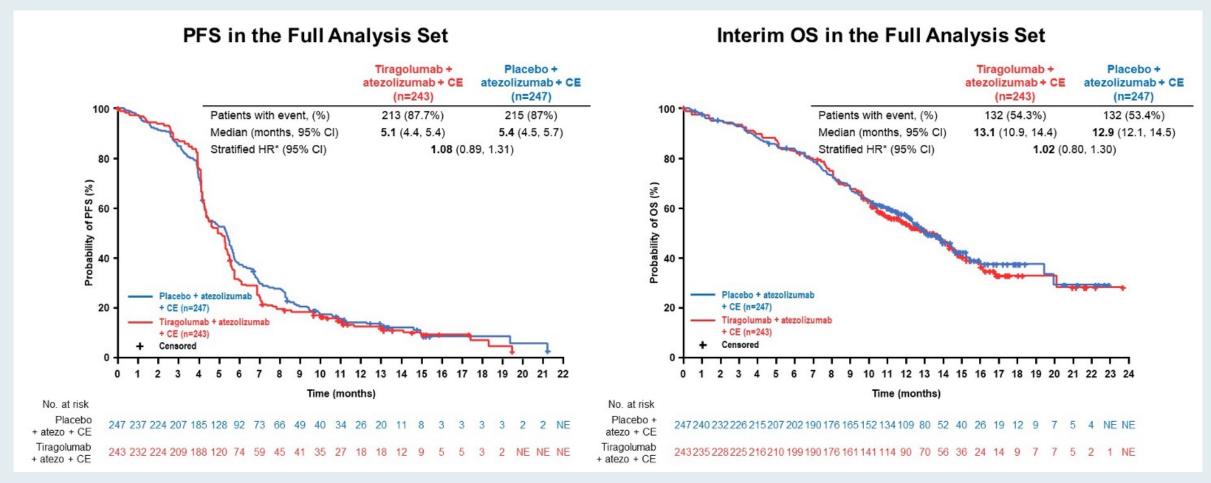
SKYSCRAPER-02: OS in the Primary Analysis Set



OS = overall survival; CE = carboplatin and etoposide



SKYSCRAPER-02: PFS and OS in the Full Analysis Set



PFS = progression-free survival; OS = overall survival; CE = carboplatin and etoposide



Select Ongoing Phase III Trials of Anti-PD-1/PD-L1 Antibodies Combined with Other Therapeutic Approaches as Initial Therapy for ES-SCLC

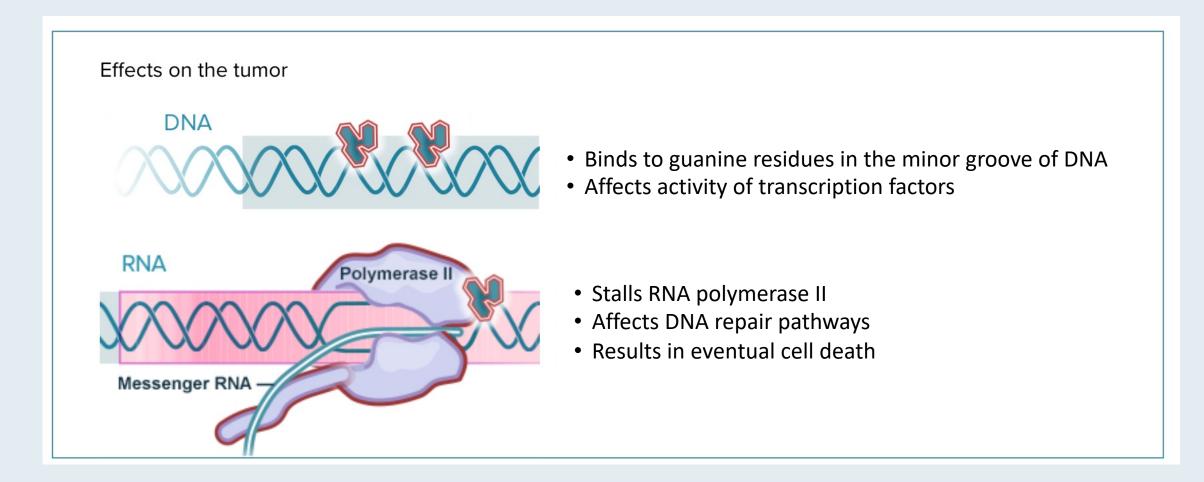
Trial identifier	N	Study arms	Estimated primary completion date
IMforte (NCT05091567)	690	 Atezolizumab + carboplatin/etoposide → atezolizumab + lurbinectedin Atezolizumab + carboplatin/etoposide 	April 2025
KEYVIBE-008 (NCT05224141)	450	 Pembrolizumab/vibostolimab + platinum/etoposide → pembrolizumab/vibostolimab Atezolizumab + platinum/etoposide → atezolizumab 	May 2025
RAPTOR (NCT04402788)	138	Atezolizumab + radiation therapyAtezolizumab	April 2027



Selection and Sequencing of Therapy for Patients with Relapsed SCLC



Lurbinectedin Mechanism of Action





Lancet Oncol 2020;21(5):645-54.

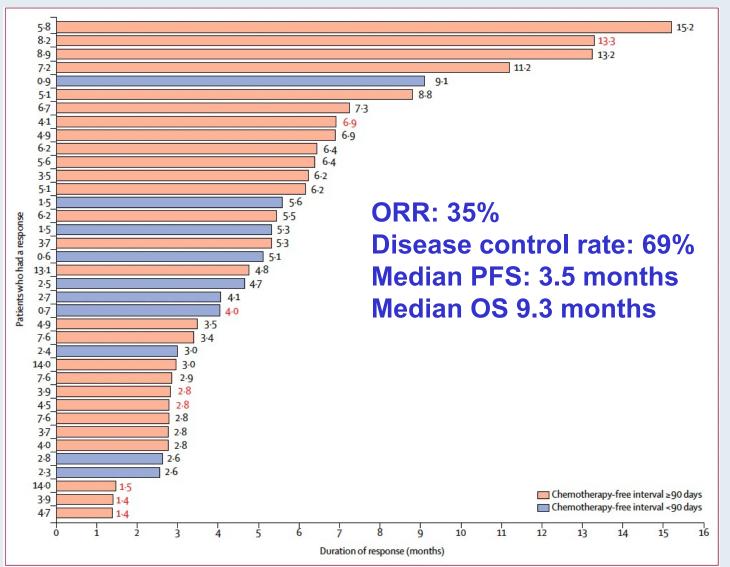
Lurbinectedin as second-line treatment for patients with small-cell lung cancer: a single-arm, open-label, phase 2 basket trial



José Trigo*, Vivek Subbiah*, Benjamin Besse, Victor Moreno, Rafael López, María Angeles Sala, Solange Peters, Santiago Ponce, Cristian Fernández, Vicente Alfaro, Javier Gómez, Carmen Kahatt, Ali Zeaiter, Khalil Zaman, Valentina Boni, Jennifer Arrondeau, Maite Martínez, Jean-Pierre Delord, Ahmad Awada, Rebecca Kristeleit, Maria Eugenia Olmedo, Luciano Wannesson, Javier Valdivia, María Jesús Rubio, Antonio Anton, John Sarantopoulos, Sant P Chawla, Joaquín Mosquera-Martinez, Manolo D'Arcangelo, Armando Santoro, Victor M Villalobos, Jacob Sands, Luis Paz-Ares



Response, Survival and Common AEs in the Pivotal Phase II Study of Lurbinectedin for SCLC After 1 Line of Chemotherapy



Common treatment-related adverse events				
Grade 1-2 Grad		Grade 3-4		
Anemia	87%	9%		
Leukopenia	50%	29%		
Neutropenia	26%	46%		
Thrombocytopenia	37%	7%		

AEs = adverse events; ORR = overall response rate; PFS = progression-free survival; OS = overall survival



Lurbinectedin/doxorubicin versus CAV or topotecan in relapsed SCLC patients: Phase III randomized ATLANTIS trial

Luis Paz-Ares¹

¹Hospital Universitario 12 de Octubre, Madrid, Spain

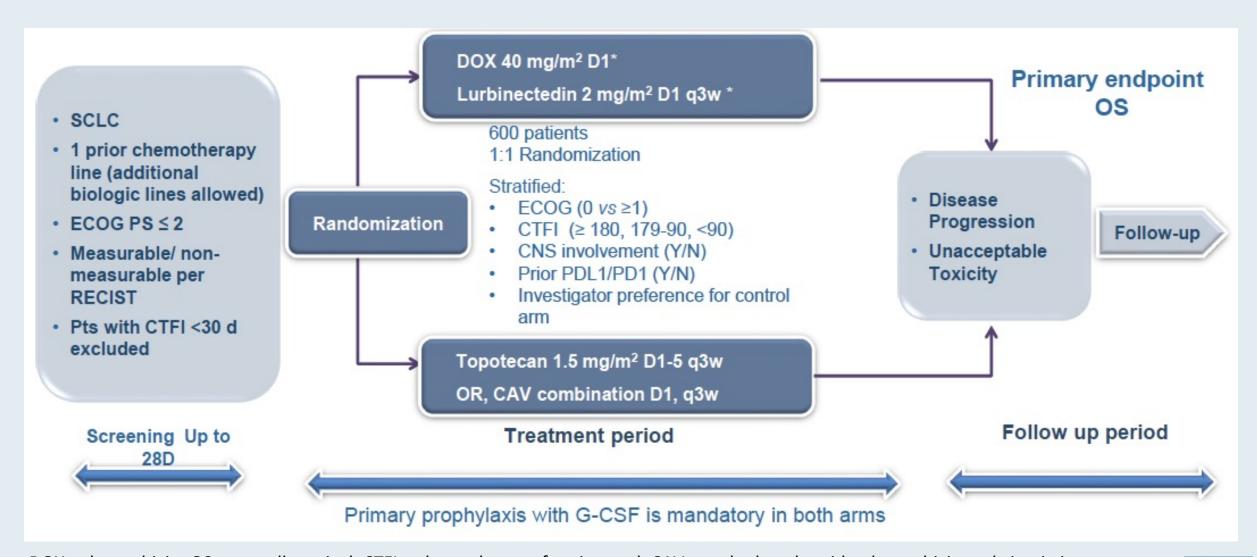
Tudor Eliade Ciuleanu², Alejandro Navarro³, Andrea Fulop⁴, Sophie Cousin⁵, Laura Bonanno⁶, Egbert Smit⁷, Alberto Chiappori⁸, Mª Eugenia Olmedo⁹, Ildiko Horvath¹⁰, Christian Gröhé¹¹, José Antonio López-Vilariño¹², Rafael Núñez¹², Antonio Nieto¹², Martin Cullell-Young¹², Noelia Vasco¹², Carmen Kahatt¹², Ali Zeaiter¹², Enric Carcereny¹³, Jaromir Roubec¹⁴, Konstantios Syrigos¹⁵, Gregory Lo¹⁶, Isidoro Barneto¹⁷.

²Institutul Oncologic Prof. Dr. Ion Chiricuta, și Universitatea de medicina și farmacie Iuliu Hatieganu , Cluj-Napoca, Romania. ³Hospital Vall d'Hebrón, Barcelona, Spain. ⁴Orszagos Koranyi TBC es Pulmonologiai Intezet, 6, Budapest, Hungary. ⁵ CRLCC Institut Bergonie, Bordeaux, France. ⁶Istituto Oncologico Veneto, Padova, Italy. ⁷Antonie van Leeuwenhoek Ziekenhuis, Amsterdam, The Netherlands. ⁸H. Lee Moffitt Cancer Center & Research Institute, Tampa (FL), USA. ⁹Hospital Universitario Ramón y Cajal, Madrid, Spain. ¹⁰Orszagos Koranyi TBC es Pulmonologiai Intezet, 14, Budapest, Hungary. ¹¹Evangelische Lungenklinik, Berlin, Germany. ¹²Pharma Mar, S.A., Colmenar Viejo, Madrid, Spain. ¹³ Institut Català d'Oncologia-Hospital Germans Trias i Pujol B-ARGO GROUP, Badalona, Spain. ¹⁴Nemocnice AGEL, Ostrava-Vitkovice, Czech Republic. ¹⁵3rd Department of Medicine, National & Kapodistrian University of Athens. ¹⁶Lakeridege Hospital, Oshawa (ON), Canada. ¹⁷Hospital Reina Sofía, Córdoba, Spain.





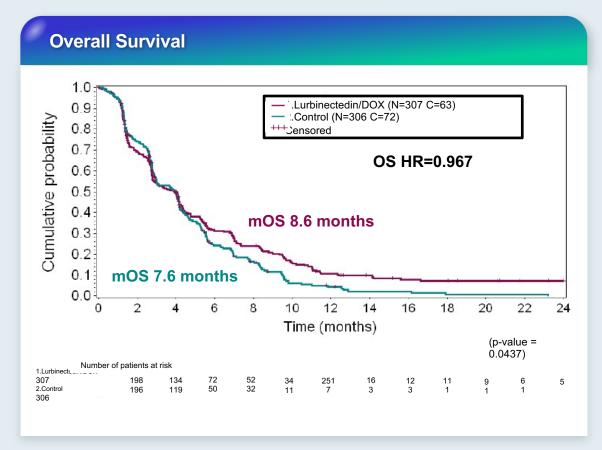
ATLANTIS: Phase III Trial Design

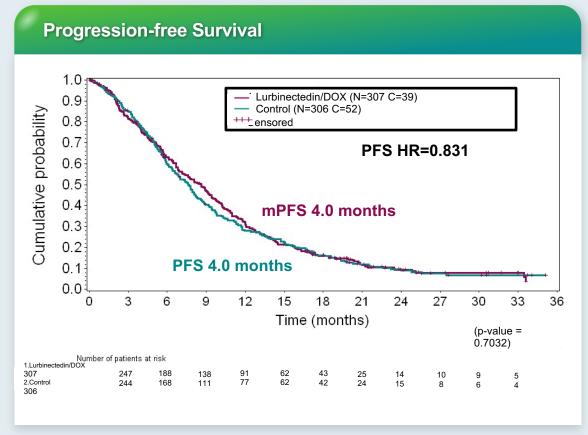


DOX = doxorubicin; OS = overall survival; CTFI = chemotherapy-free interval; CAV = cyclophosphamide, doxorubicin and vincristine



ATLANTIS: Lurbinectedin with Doxorubicin versus CAV or Topotecan for Patients with Relapsed SCLC





CAV = cyclophosphamide, doxorubicin and vincristine; DOX = doxorubicin; OS = overall survival; mOS = median OS; PFS = progression-free survival; mPFS = median PFS



ATLANTIS: Safety Summary

Hematological	Lurbinectedin+DOX (n=303)	Control (n=289)	
	Grade ≥3	Grade ≥3	p-value
Anaemia	44 (14.5)	90 (31.1)	<0.0001
Neutropenia	112 (37.0)	200 (69.2)	<0.0001
Febrile neutropenia	12 (4.0)	24 (8.3)	0.0377
Thrombocytopenia	42 (13.9)	90 (31.1)	<0.0001

Non hematological	Lurbinectedin+DOX (n=303)	Control (n=289)	
	Grade ≥3	Grade ≥3	p-value
ALT increased	6 (2.0)	3 (1.0)	0.5057
AP increased	2 (0.7)	3 (1.0)	0.6783
AST increased	7 (2.3)	4 (1.4)	0.5463
Fatigue	26 (8.6)	31 (10.7)	0.4051
Nausea	6 (2.0)	4 (1.4)	0.7525
Vomiting	4 (1.3)	0	0.1242

	Lurbinectedin+DOX (n=303) n (%)	Control (n=289) n (%)
Any AE treatment-related	268 (88.4)	266 (92.0)
Any grade ≥3 AE	143 (47.2)	218 (75.4)
Any grade 4 AE	49 (16.2)	158 (54.7)
Any grade ≥3 SAE	38 (12.5)	83 (28.7)
Death associated with AEs	1 (0.3)	10 (3.5)
Treatment discontinuations associated with AEs	23 (7.6)	45 (15.6)
Delays associated with AEs	79 (26.1)	99 (34.3)
Reductions associated with AEs	66 (21.8)	138 (47.8)

DOX = doxorubicin; AE = adverse event; SAE = serious AE



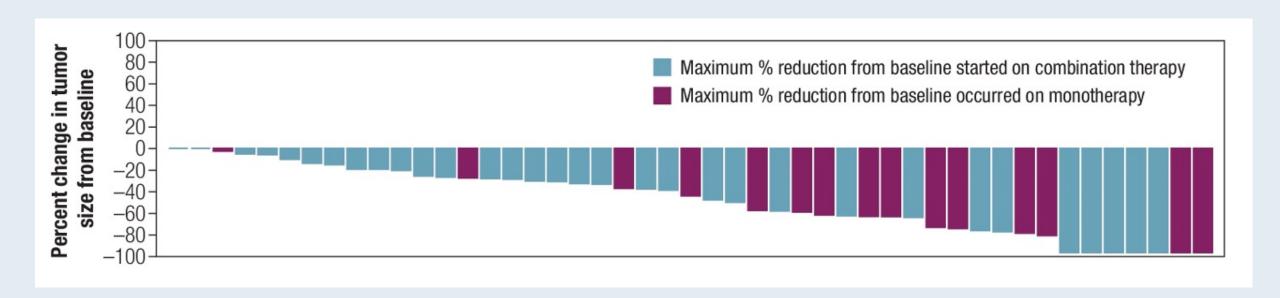
Analysis of Patients With Relapsed Small Cell Lung Cancer (SCLC) Receiving Single-agent Lurbinectedin in the Phase 3 ATLANTIS Trial

Alejandro Navarro, 1,* Santiago Ponce Aix, 2,3 Isidoro C. Barneto, 4 Egbert F. Smit, 5 José Antonio López-Vilariño, 6 Antonio Nieto, 6 Carmen Kahatt, 6 Ali Zeaiter, 6 Sophie Cousin, 7 Helge Bischoff, 8 Jaromir Roubec, 9 Konstantinos Syrigos, 10 Luis Paz-Ares3

ASCO 2022 | **Abstract 8524**

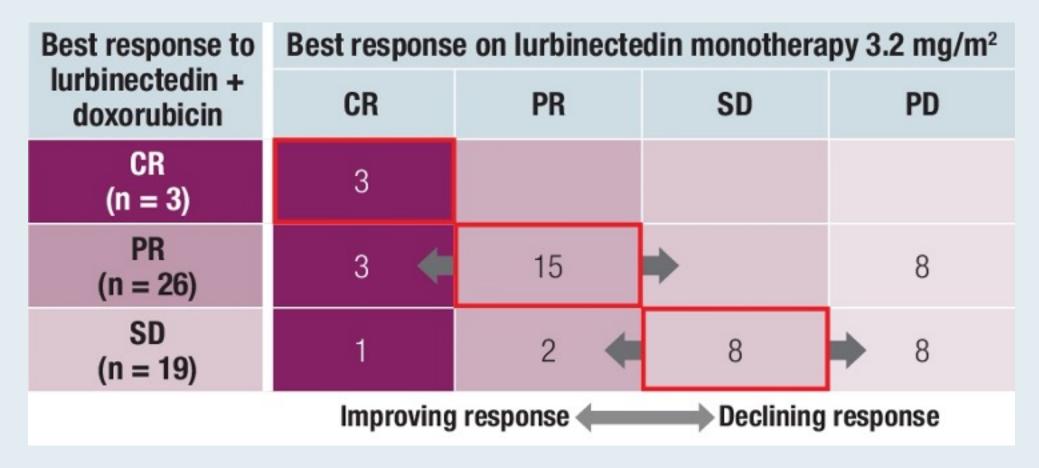


ATLANTIS: Change in Tumor Size from Baseline During Combination Therapy or Monotherapy (IRC)





ATLANTIS: Change in Tumor Size from Baseline During Combination Therapy or Monotherapy (IRC)



The majority (32/48) of patients who switched to lurbinectedin monotherapy maintained or improved the tumor response achieved on combination therapy (16 patients had progressive disease)



A Phase 1/2 Trial of Lurbinectedin (L) in Combination with Pembrolizumab (P) in Relapsed Small Cell Lung Cancer (SCLC): The LUPER Study

Calles A et al.

ASCO 2022; Abstract 8581.

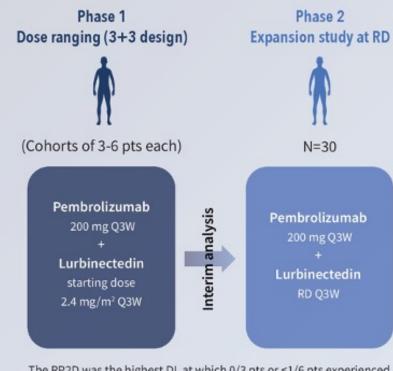


LUPER Phase I/II Study Design

Prospective phase I/II, multicenter, open-label study (NCT04358237)

Key inclusion criteria

- ≥18 years with confirmed SCLC
- ECOG PS 0-1
- Measurable disease as per RECIST v.1.1
- Progression to a CT-containing regimen (≥4 weeks before study initiation)
- Previous immunotherapy NOT allowed
- Pts with treated, stable, asymptomatic brain metastases (BMs) are allowed



The RP2D was the highest DL at which 0/3 pts or ≤1/6 pts experienced DLTs during the first cycle.

P and L will be administered Day 1 Q3W until disease progression, unacceptable toxicity, or consent withdrawal.

Primary endpoints

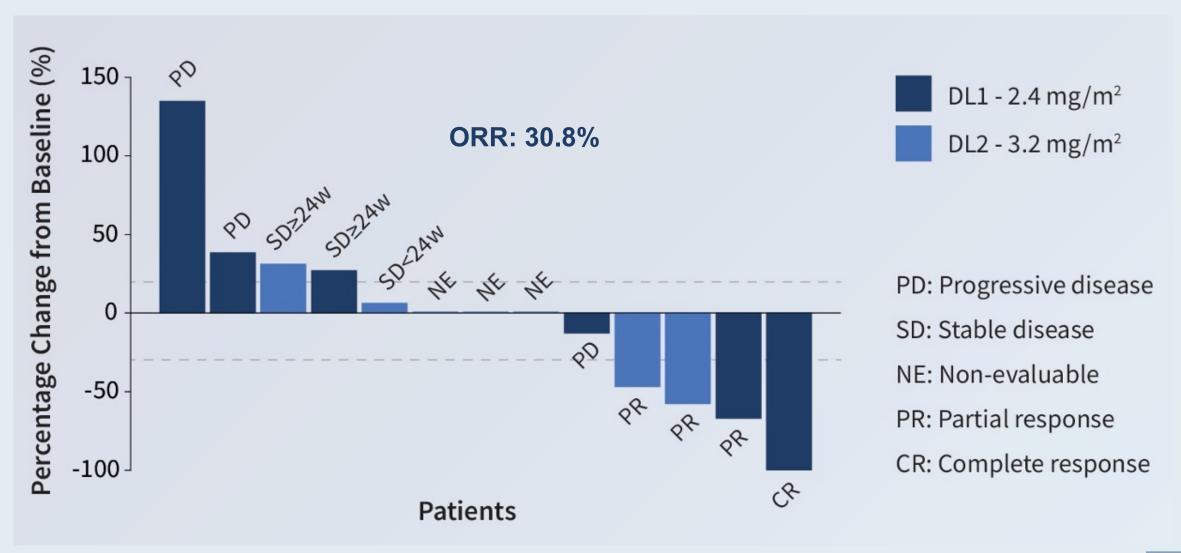
- Phase 1: MTD and RD of L in combination with P for phase II in pts with relapsed SCLC.
- Phase 2: Efficacy of L in combination with P in terms of ORR, according to RECIST 1.1, in pts with relapsed SCLC.

Secondary endpoints

 Safety as per CTCAE 5.0, preliminary efficacy, and pharmacokinetics.



LUPER: Best Overall Response





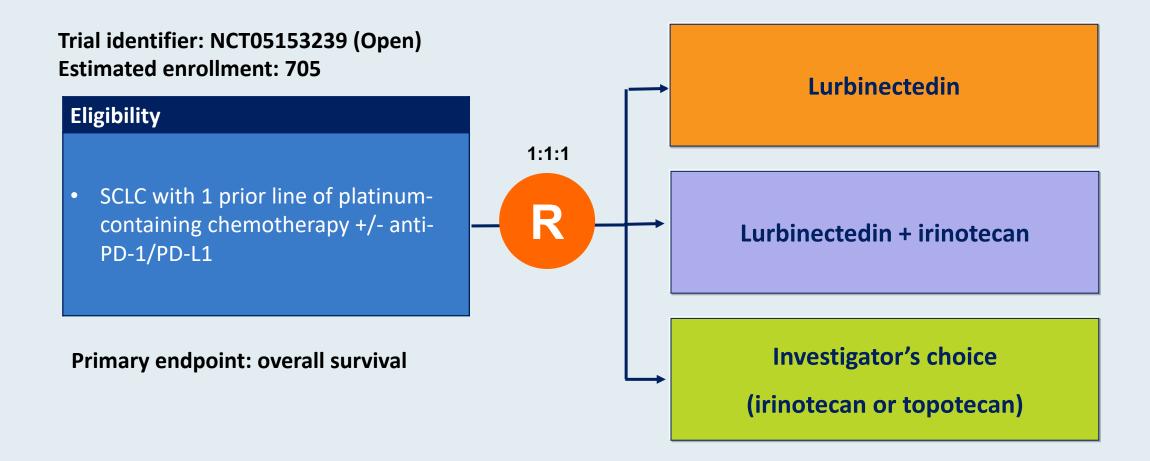
LUPER: Safety Analysis

Overall (N=13)	Any grade n (%)	Grade 3 n (%)	Grade 4 n (%)
TEAEs	11 (84.6)	7 (53.9)	2 (15.4)
Haematologic	8 (61.5)	3 (23.1)	2 (15.4)
Neutropenia	7 (53.9)	3 (23.1)	2 (15.4)
Thrombocytopenia	3 (23.1)	1 (7.7)	0 (0.0)
Anaemia	2 (15.4)	0 (0.0)	0 (0.0)
Non-haematologic	11 (84.6)	4 (30.8)	0 (0.0)
Fatigue	10 (76.9)	1 (7.7)	0 (0.0)
Nausea	7 (53.9)	0 (0.0)	0 (0.0)
ALT increased	4 (30.8)	3 (23.1)	0 (0.0)
Decreased appetite	4 (30.8)	0 (0.0)	0 (0.0)
Vomiting	2 (15.4)	0 (0.0)	0 (0.0)
Constipation	2 (15.4)	0 (0.0)	0 (0.0)
AST increased	3 (23.1)	2 (15.4)	0 (0.0)
Dyspnoea	2 (15.4)	0 (0.0)	0 (0.0)



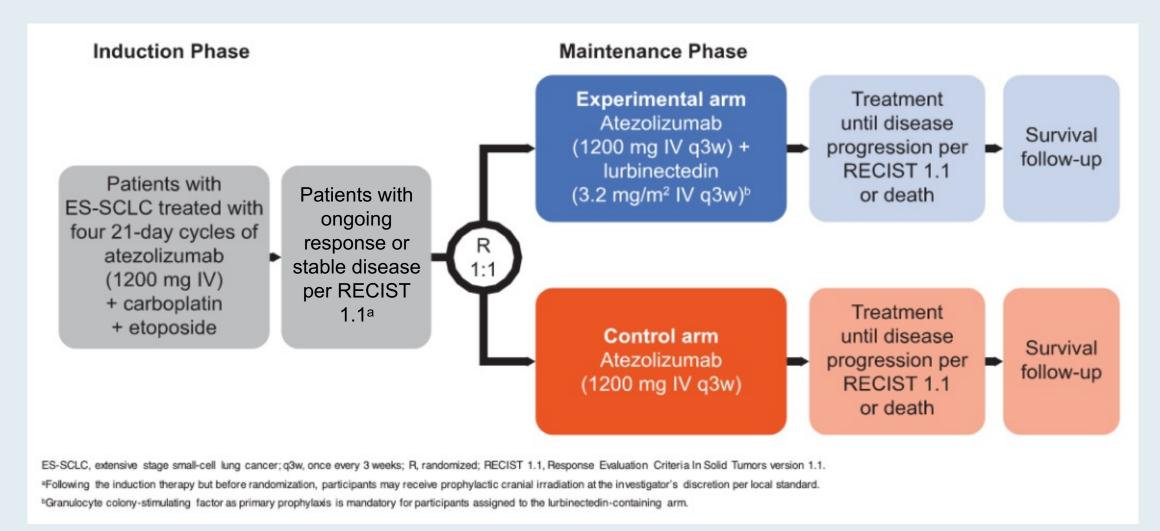
TAEAs = treatment-emergent adverse events

Ongoing Phase III LAGOON Study Design





IMforte Phase III Study Schema: Maintenance Therapy with Lurbinectedin and Atezolizumab versus Atezolizumab





Nivolumab Indication for Small Cell Lung Cancer Withdrawn Press Release: January 25, 2021

"On December 29, Bristol Myers Squibb issued the following statement on nivolumab's small cell lung cancer (SCLC) indication in the United States.

In 2018, nivolumab was granted accelerated approval by the US Food and Drug Administration (FDA) for the treatment of patients with SCLC whose disease has progressed after platinum-based chemotherapy and at least one other line of therapy. The accelerated approval was based on nivolumab's effect on surrogate endpoints from the phase I/II CheckMate 032 trial for patients with advanced or metastatic solid tumors. The trial demonstrated encouraging response rates and duration of response with nivolumab in SCLC, an aggressive and difficult-to-treat cancer. However, subsequent confirmatory studies in different treatment settings—CheckMate 451 and CheckMate 331—did not meet their primary endpoints of overall survival."



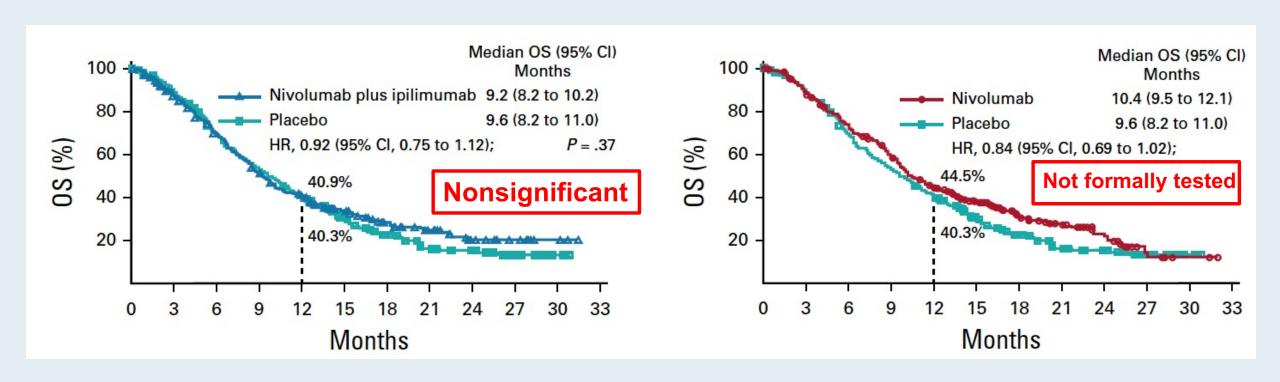
Nivolumab and Ipilimumab as Maintenance Therapy in Extensive-Disease Small-Cell Lung Cancer: CheckMate 451

Taofeek K. Owonikoko, MD, PhD¹; Keunchil Park, MD, PhD²; Ramaswamy Govindan, MD³; Neal Ready, MD, PhD⁴; Martin Reck, MD, PhD⁵; Solange Peters, MD, PhD⁶; Shaker R. Dakhil, MD⁷; Alejandro Navarro, MD⁶; Jerónimo Rodríguez-Cid, MD⁶; Michael Schenker, MD, PhD¹⁰; Jong-Seok Lee, MD, PhD¹¹; Vanesa Gutierrez, MD¹²; Ivor Percent, MD¹³; Daniel Morgensztern, MD³; Carlos H. Barrios, MD¹⁴; Laurent Greillier, MD, PhD¹⁵; Sofia Baka, MD, PhD¹⁶; Miten Patel, MD¹⁷; Wen Hong Lin, MD¹⁷; Giovanni Selvaggi, MD¹³; Christine Baudelet, PhD¹³; Jonathan Baden, MSc¹³; Dimple Pandya, MD¹³; Parul Doshi, PhD¹³; and Hye Ryun Kim, MD, PhD¹٩

J Clin Oncol 2021;39(12):1349-59.



CheckMate 451: Overall Survival (Primary Endpoint Not Met)







Ann Oncol 2021;32(5):631-41.



ORIGINAL ARTICLE

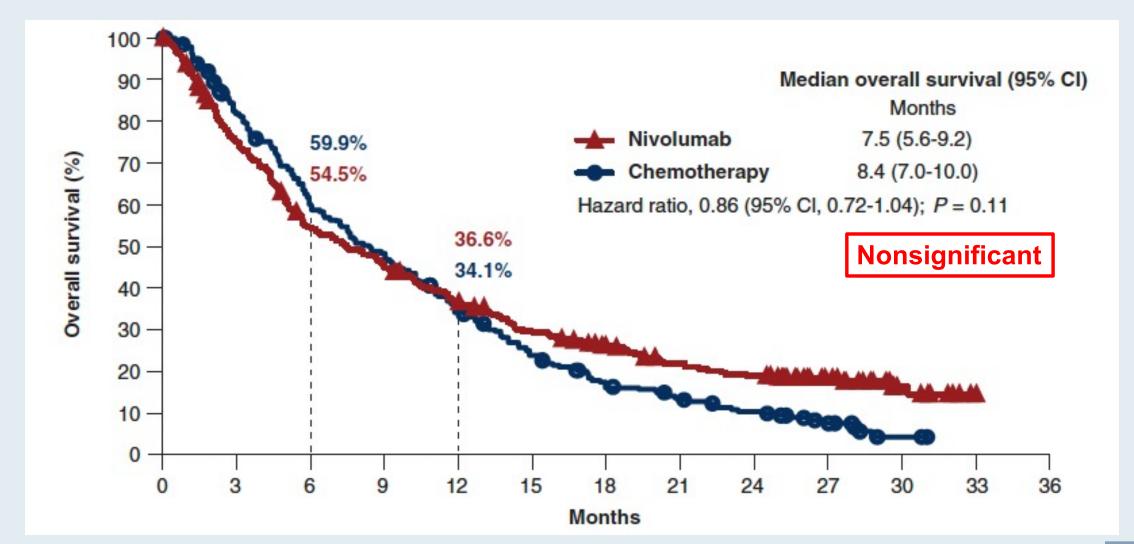
Second-line nivolumab in relapsed small-cell lung cancer: CheckMate 331 122

D. R. Spigel^{1*}, D. Vicente², T. E. Ciuleanu³, S. Gettinger⁴, S. Peters⁵, L. Horn⁶, C. Audigier-Valette⁷, N. Pardo Aranda⁸, O. Juan-Vidal⁹, Y. Cheng¹⁰, H. Zhang¹¹, M. Shi¹², A. Luft¹³, J. Wolf¹⁴, S. Antonia^{15†}, K. Nakagawa¹⁶, J. Fairchild^{17†},

C. Baudelet¹⁸, D. Pandya¹⁹, P. Doshi²⁰, H. Chang²¹ & M. Reck²²



CheckMate 331: Overall Survival (Primary Endpoint Not Met)





Small Cell Lung Cancer Indication for Pembrolizumab Is Withdrawn Press Release: March 2, 2021

"On March 1, Merck announced the company is voluntarily withdrawing the US indication for pembrolizumab for the treatment of patients with metastatic small cell lung cancer with disease progression on or after platinum-based chemotherapy and at least one other prior line of therapy. The withdrawal of this indication was done in consultation with the U.S. Food and Drug Administration (FDA), and Merck is working to complete this process over the coming weeks. This decision does not affect other indications for pembrolizumab.

The confirmatory phase III trial for this indication, KEYNOTE-604, met one of its dual primary endpoints of progression-free survival but did not reach statistical significance for the other primary endpoint of overall survival."



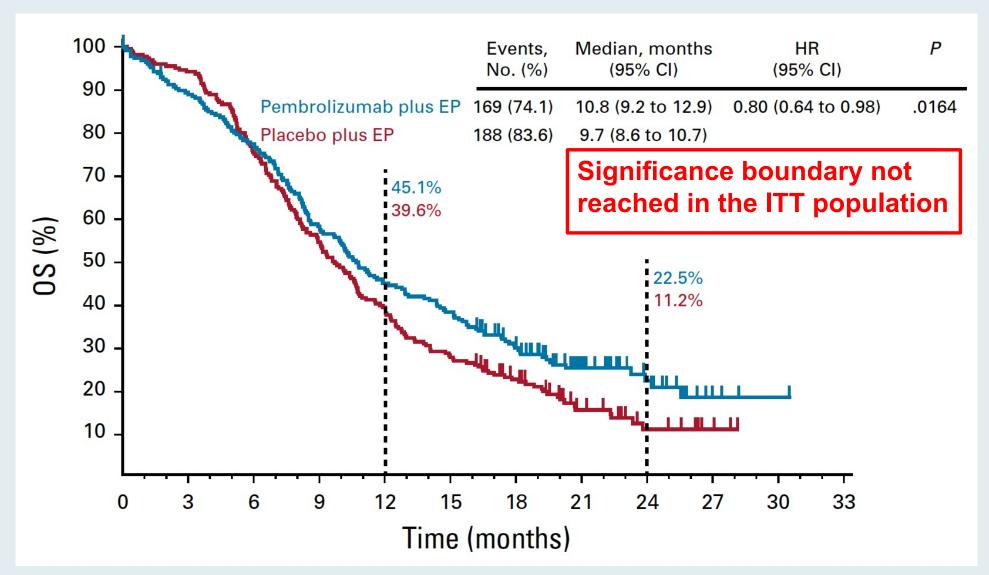
Pembrolizumab or Placebo Plus Etoposide and Platinum as First-Line Therapy for Extensive-Stage Small-Cell Lung Cance Randomized, Double-Blind, Phase III KEYNOTE-604 Study Charles M. Rudin, MD, PhD¹; Mark M. Awad, MD, PhD²; Alejandro Navarro, MD³; Maya Gottfried, MD⁴; Sola Tibor Csőszi, MD⁶; Parneet K. Cheema, MDˀ; Delvys Rodriguez-Abreu, MD®; Mirjana Wollner, MD⁰; James Ch Julien Mazieres, MD, PhD¹¹; Francisco J. Orlandi, MD¹²; Alexander Luft, PhD, MD¹³; Mahmut Gümüş, MD¹² **Extensive-Stage Small-Cell Lung Cancer:**

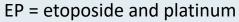
Charles M. Rudin, MD, PhD¹; Mark M. Awad, MD, PhD²; Alejandro Navarro, MD³; Maya Gottfried, MD⁴; Solange Peters, MD, PhD⁵; Tibor Csőszi, MD⁶; Parneet K. Cheema, MD⁷; Delvys Rodriguez-Abreu, MD⁸; Mirjana Wollner, MD⁹; James Chih-Hsin Yang, MD, PhD¹⁰; Julien Mazieres, MD, PhD¹¹; Francisco J. Orlandi, MD¹²; Alexander Luft, PhD, MD¹³; Mahmut Gümüş, MD¹⁴; Terufumi Kato, MD¹⁵; Gregory P. Kalemkerian, MD¹⁶; Yiwen Luo, PhD¹⁷; Victoria Ebiana, MD¹⁷; M. Catherine Pietanza, MD¹⁷; and Hye Ryun Kim, MD¹⁸ on behalf of the KEYNOTE-604 Investigators

J Clin Oncol 2020;38(21):2369-79.



KEYNOTE-604: Final Overall Survival (Coprimary Endpoint Not Met)







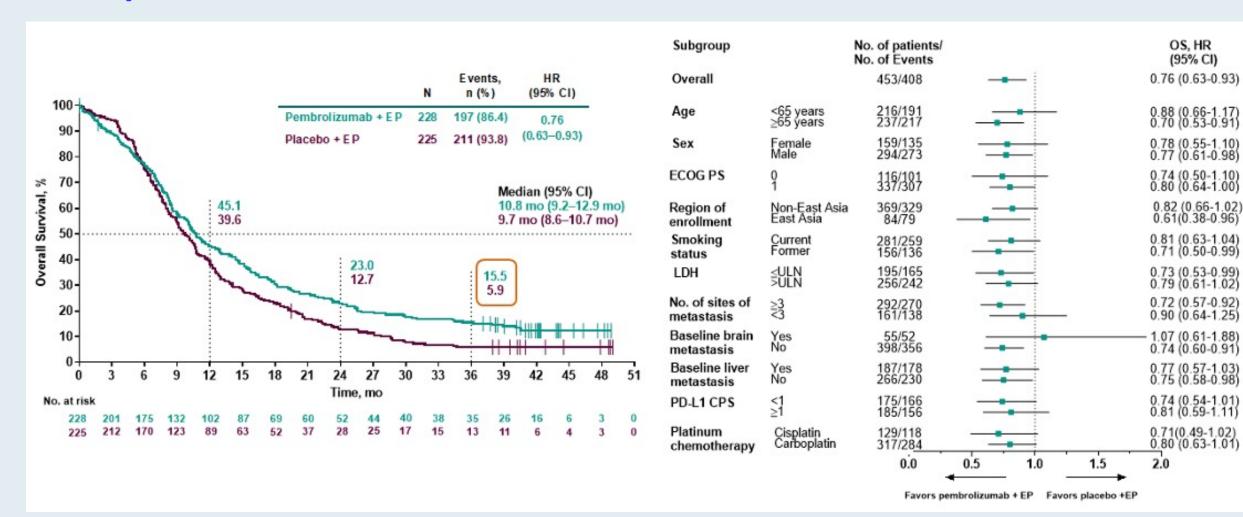
First-Line Pembrolizumab or Placebo Combined With Etoposide and Platinum for ES-SCLC: KEYNOTE-604 Long-Term Follow-Up Results

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<u>C.M. Rudin</u><sup>1</sup>; H.R. Kim<sup>2</sup>; A. Navarro<sup>3</sup>; M. Gottfried<sup>4</sup>; S. Peters<sup>5</sup>; T. Csőszi<sup>6</sup>; P.K. Cheema<sup>7</sup>; D. Rodriguez-Abreu<sup>8</sup>; M. Wollner<sup>9</sup>; G. Czyżewicz<sup>10</sup>; J.C.-H. Yang<sup>11</sup>; J. Mazieres<sup>12</sup>; F.J. Orlandi<sup>13</sup>; A. Luft<sup>14</sup>; M. Gümüş<sup>15</sup>; T. Kato<sup>16</sup>; G.P. Kalemkerian<sup>17</sup>; W. Fu<sup>18</sup>; B. Zhao<sup>18</sup>; H. El-Osta<sup>18</sup>; M.M. Awad<sup>19</sup>
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KEYNOTE-604: Long-Term Follow-Up of Overall Survival in the ITT Population

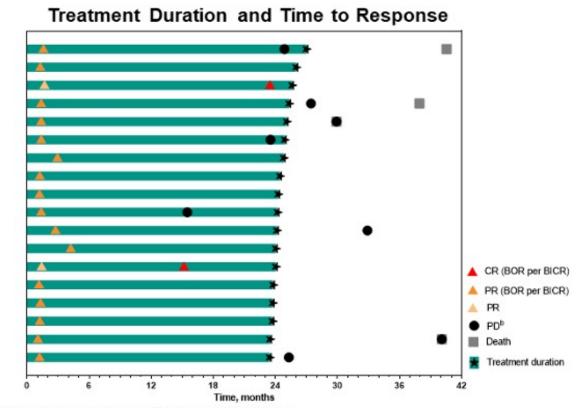




OS, HR

(95% CI)

KEYNOTE-604: Response Summary with Long-Term Follow-Up



Summary of OS and Response

	Completed 35 cycles n = 18
Median OS (95% CI),c mo	NR (16.6-NR)
2-year OS rate after completing 35 cycles (95% CI),d %	72.2 (39.5–89.2)
ORR (95% CI), e %	100.0 (81.5-100.0)
Best overall response, en (%)	
CR	2 (11.1)
PR	16 (88.9)
DOR, median (range), c,e mo	NR (14.1 to 46.8+)
DOR ≥12 mo, %	100.0
DOR ≥24 mo, %	83.3

- 14 patients (77.8% of 18 and 6.1% of 228) were alive as of last assessment before data cutoff
- 2/225 (0.9%) patients in the placebo + EP arm completed 35 cycles and were alive as of data cutoff

NR, not reached. '+' indicates no PD by the time of last assessment.

Database cutoff date: September 21, 2021.



^aMedian time from randomization to data cutoff was 42.5 (range, 38.2-49.5) mo.

⁶Of 3 patients who had PD after completion of 35 cycles of pembrolizumab, 1 patient started pembrolizumab 6 months after PD and 2 patients had not received subsequent therapy as of database cutoff. ⁶OS and DOR estimates are based on the Kaplan-Meier method.

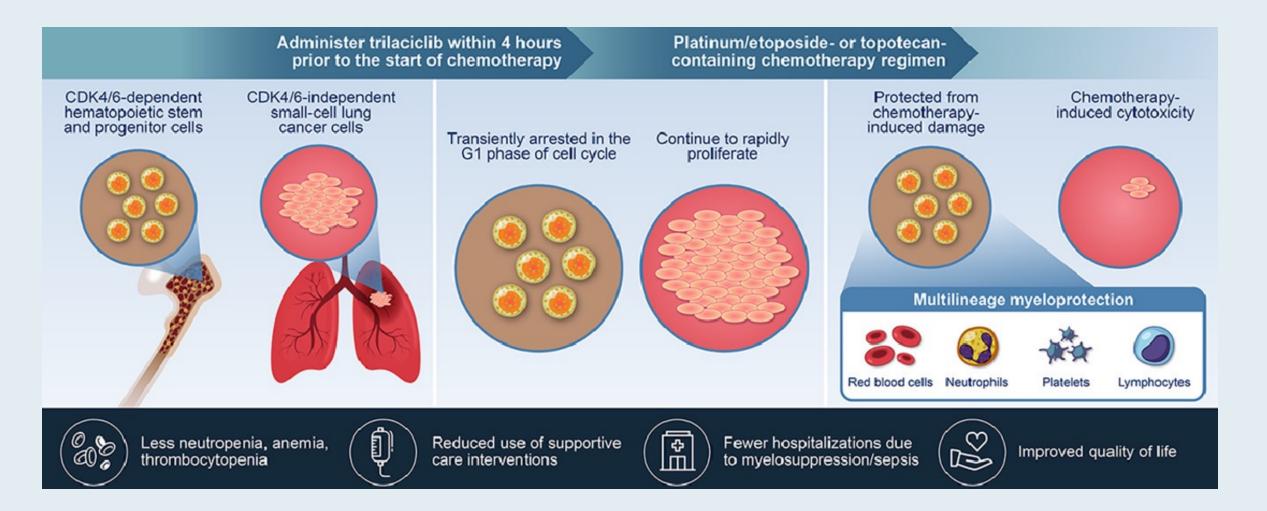
^aCorresponds to approximately 4 years after randomization.

^{*}Based on RECIST v1.1 by BICR.

Safety and Tolerability Issues with Available Therapies for SCLC



Trilaciclib: Mechanism of Action





Clin Lung Cancer 2021;22(5):449-60.

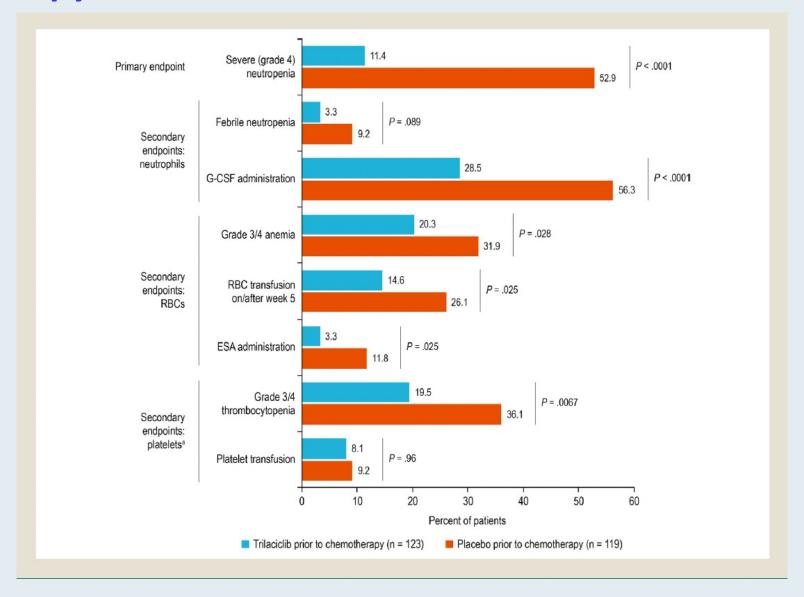
Original Study

Effects of Trilaciclib on Chemotherapy-Induced Myelosuppression and Patient-Reported Outcomes in Patients with Extensive-Stage Small Cell Lung Cancer: Pooled Results from Three Phase II Randomized, Double-Blind, Placebo-Controlled Studies

Jared Weiss, ¹ Jerome Goldschmidt, ² Zoran Andric, ³ Konstantin H. Dragnev, ⁴ Chad Gwaltney, ⁵ Konstantina Skaltsa, ⁶ Yili Pritchett, ⁷ Joyce M. Antal, ⁷ Shannon R. Morris, ⁷ Davey Daniel ^{8,9}



Myelopreservation Benefits with Trilaciclib Administered Prior to Chemotherapy



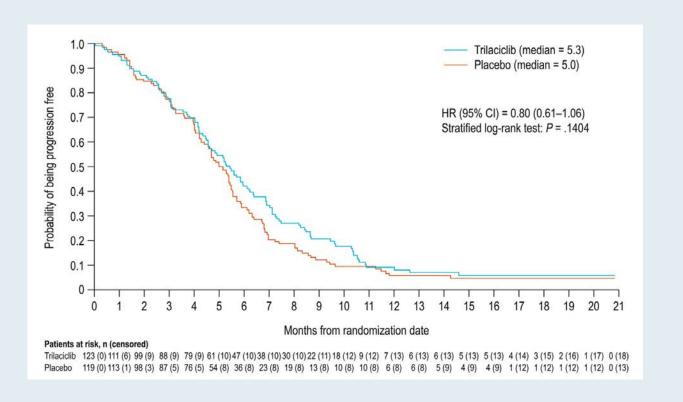


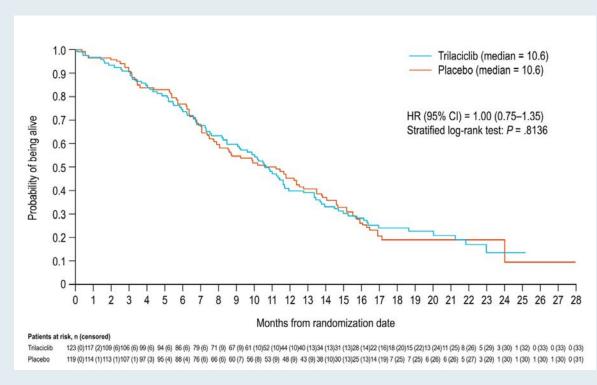
Time to Confirmed Deterioration (TTCD) in Selected Patient-Reported Outcome Measures with Trilaciclib

Domain Tr	Events, n ilaciclib/placebo	TTCD, months Trilaciclib/placebo	T	Hazard ratio (95% CI)
Physical wellbeing	32/51	NYR/5.16	—	0.62 (0.40–0.97)
Functional wellbeing	31/55	7.62/3.78	├	0.45 (0.29–0.71)
Fatigue	39/61	7.03/2.33	├──	0.56 (0.37–0.85)
Anemia trial outcome index	33/55	7.20/3.78	├──	0.54 (0.35–0.84)
FACT-An total	31/58	NYR/3.48	0.4 0.6 0.8 1 1.67	0.47 (0.30–0.73) 2.5
			Trilaciclib better Placebo	better



Progression-Free and Overall Survival for Patients Who Received Trilaciclib versus Placebo







Summary of Adverse Events (AEs) in the Pooled Safety Population

Event	n (%)	
	Trilaciclib Prior to Chemotherapy $(n = 122)$	Placebo Prior to Chemotherapy $(n = 118)$
Any AE	115 (94.3)	114 (96.6)
Any placebo-/trilaciclib-related AE	45 (36.9)	49 (41.5)
Any serious AE	36 (29.5)	30 (25.4)
Any placebo-/trilaciclib-related serious AE	2 (1.6)	1 (0.8)
Any AE of grade ≥3	73 (59.8)	98 (83.1)
Any AE of grade ≥4	30 (24.6)	62 (52.5)
Any placebo-/trilaciclib-related AE of grade ≥3	10 (8.2)	18 (15.3)
Any hematologic AE	82 (67.2)	106 (89.8)
Any hematologic AE of grade ≥ 3	54 (44.3)	91 (77.1)
Any hematologic AE of grade \geq 4	19 (15.6)	62 (52.5)
AESIs for trilaciclib	23 (18.9)	10 (8.5)
Any AE leading to discontinuation of any study drug	11 (9.0)	13 (11.0)
All-cause hospitalization	30 (24.6)	30 (25.4)
Hospitalization due to CIM or sepsis	5 (4.1)	16 (13.6)
Any AE leading to death	6 (4.9)	3 (2.5)

AESIs = adverse events of special interest



Common Adverse Events (AEs)

Event	п (%)	
	Trilaciclib Prior to Chemotherapy $(n = 122)$	Placebo Prior to Chemotherapy $(n = 118)$
Most common AEs (occurring in \geq 10% of patients) ^a		
Neutropenia	51 (41.8)	78 (66.1)
Anemia	46 (37.7)	71 (60.2)
Nausea	41 (33.6)	39 (33.1)
Fatigue	41 (33.6)	32 (27.1)
Thrombocytopenia	37 (30.3)	50 (42.4)
Dyspnea	20 (16.4)	20 (16.9)
Pyrexia	17 (13.9)	13 (11.0)
Alopecia	16 (13.1)	30 (25.4)
Diarrhea	16 (13.1)	21 (17.8)
Decreased appetite	16 (13.1)	15 (12.7)
Headache	16 (13.1)	11 (9.3)
Constipation	14 (11.5)	23 (19.5)
Vomiting	11 (9.0)	19 (16.1)
Leukopenia	10 (8.2)	28 (23.7)
Platelet count decreased	9 (7.4)	19 (16.1)
Dizziness	9 (7.4)	18 (15.3)
Neutrophil count decreased	8 (6.6)	21 (17.8)



Adverse Events of Special Interest

Adverse event	Trilaciclib before chemotherapy	Placebo before chemotherapy
Injection site reactions	13.9%	2.5%
Phlebitis/thrombophlebitis	9.0%	0.8%
Acute drug hypersensitivity reactions	4.1%	3.4%



Meet The Professor Optimizing the Management of Gastroesophageal Cancers

Wednesday, August 17, 2022 5:00 PM - 6:00 PM ET

Faculty
John Strickler, MD

Moderator Neil Love, MD



Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 5 business days.

