

Breakfast with the Investigators: Current and Emerging Role of Antibody-Drug Conjugates in the Treatment of Lung Cancer

Saturday, June 1, 2024

6:45 AM – 7:45 AM CT (7:45 AM – 8:45 AM ET)

Faculty

Rebecca S Heist, MD, MPH

Luis Paz-Ares, MD, PhD

Moderator

Jacob Sands, MD

Faculty



Rebecca S Heist, MD, MPH
Associate Professor of Medicine
Harvard Medical School
Thoracic Oncology
Massachusetts General Hospital Cancer Center
Boston, Massachusetts



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



Luis Paz-Ares, MD, PhD
Chair of the Medical Oncology Department at the
Hospital Universitario 12 de Octubre
Associate Professor at the Universidad Complutense
Head of the Lung Cancer Unit at the National
Oncology Research Center
Madrid, Spain

Dr Heist — Disclosures Faculty

Consulting Agreements	AbbVie Inc, AstraZeneca Pharmaceuticals LP, Biohaven, Claim Therapeutics, Daiichi Sankyo Inc, Lilly, Merck, Novartis, Regeneron Pharmaceuticals Inc, Sanofi
Contracted Research	Agios Pharmaceuticals Inc, Corvus Pharmaceuticals, Daiichi Sankyo Inc, Erasca, Lilly, Mirati Therapeutics Inc, Mythic Therapeutics, Novartis, Turning Point Therapeutics Inc

Dr Paz-Ares — Disclosures Faculty

Advisory Committees	Amgen Inc, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Bristol Myers Squibb, Daiichi Sankyo Inc, GSK, Janssen Biotech Inc, Lilly, Merck, Mirati Therapeutics Inc, MSD, Novartis, Pfizer Inc, PharmaMar, Roche Laboratories Inc, Sanofi, Servier Pharmaceuticals LLC, Takeda Pharmaceuticals USA Inc
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Dr Sands — Disclosures Moderator

Advisory Committee	Curadev
Consulting Agreements	Amgen Inc, AstraZeneca Pharmaceuticals LP, Boehringer Ingelheim Pharmaceuticals Inc, Daiichi Sankyo Inc, Gilead Sciences Inc, Lilly, Medtronic Inc, Pfizer Inc, PharmaMar, Sanofi
Contracted Research	Amgen Inc, Harpoon Therapeutics
Data and Safety Monitoring Board/Committee	Johnson & Johnson Pharmaceuticals

Dr Love — Disclosures

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Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose.

This educational activity contains discussion of non-FDA-approved uses of agents and regimens. Please refer to official prescribing information for each product for approved indications.

Friday May 31	Hepatobiliary Cancers 11:45 AM – 12:45 PM CT (12:45 PM – 1:45 PM ET)
	Non-Small Cell Lung Cancer with an EGFR Mutation 6:30 PM – 8:30 PM CT (7:30 PM – 9:30 PM ET)
Saturday June 1	Antibody-Drug Conjugates in the Treatment of Lung Cancer 6:45 AM – 7:45 AM CT (7:45 AM – 8:45 AM ET)
	Prostate Cancer 7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)
Sunday June 2	Multiple Myeloma 6:45 AM – 7:45 AM CT (7:45 AM – 8:45 AM ET)
	Ovarian and Endometrial Cancer 7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)
Monday June 3	Colorectal Cancer (Webinar) 7:00 AM – 8:00 AM CT (8:00 AM – 9:00 AM ET)
	Metastatic Breast Cancer 7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)
Tuesday June 4	Bispecific Antibodies in the Management of Lymphoma (Webinar) 7:00 AM – 8:00 AM CT (8:00 AM – 9:00 AM ET)

Exciting CME Events in Chicago You Do Not Want to Miss

A CME Hybrid Symposium Series Held in Conjunction with the 2024 ASCO® Annual Meeting

Hepatobiliary Cancers

Friday, May 31, 2024

11:45 AM – 12:45 PM CT (12:45 PM – 1:45 PM ET)

Faculty

Robin K (Katie) Kelley, MD
Edward Kim, MD
Arndt Vogel, MD, PhD

Antibody-Drug Conjugates in Lung Cancer

Saturday, June 1, 2024

6:45 AM – 7:45 AM CT (7:45 AM – 8:45 AM ET)

Faculty

Rebecca S Heist, MD, MPH
Luis Paz-Ares, MD, PhD
Jacob Sands, MD

Non-Small Cell Lung Cancer with an EGFR Mutation

Friday, May 31, 2024

6:30 PM – 8:30 PM CT (7:30 PM – 9:30 PM ET)

Faculty

Jonathan W Goldman, MD
Corey J Langer, MD
Joel W Neal, MD, PhD
Zofia Piotrowska, MD, MHS
Joshua K Sabari, MD
Helena Yu, MD

Prostate Cancer

Saturday, June 1, 2024

7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)

Faculty

Neeraj Agarwal, MD, FASCO
Emmanuel S Antonarakis, MD
Andrew J Armstrong, MD, ScM
Tanya B Dorff, MD
Matthew R Smith, MD, PhD

Exciting CME Events in Chicago You Do Not Want to Miss

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Multiple Myeloma

Sunday, June 2, 2024

6:45 AM – 7:45 AM CT (7:45 AM – 8:45 AM ET)

Faculty

Rafael Fonseca, MD

María-Victoria Mateos, MD, PhD

Elizabeth O'Donnell, MD

LIVE WEBCAST

Colorectal Cancer

Monday, June 3, 2024

7:00 AM – 8:00 AM CT (8:00 AM – 9:00 AM ET)

Faculty

Scott Kopetz, MD, PhD

John Strickler, MD

Ovarian and Endometrial Cancer

Sunday, June 2, 2024

7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)

Faculty

Floor J Backes, MD

Mansoor Raza Mirza, MD

Ritu Salani, MD, MBA

Angeles Alvarez Secord, MD, MHSc

Brian M Slomovitz, MD

Metastatic Breast Cancer

Monday, June 3, 2024

7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)

Faculty

Aditya Bardia, MD, MPH

Harold J Burstein, MD, PhD

Professor Giuseppe Curigliano, MD, PhD

Sara A Hurvitz, MD, FACP

Joyce O'Shaughnessy, MD

Hope S Rugo, MD

Exciting CME Events in Chicago You Do Not Want to Miss

A CME Hybrid Symposium Series Held in Conjunction with the 2024 ASCO® Annual Meeting

LIVE WEBCAST

Bispecific Antibodies in Lymphoma

Tuesday, June 4, 2024

7:00 AM – 8:00 AM CT (8:00 AM – 9:00 AM ET)

Faculty

Joshua Brody, MD

Ian W Flinn, MD, PhD

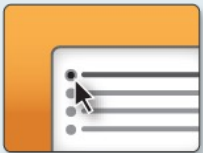
Tycel Phillips, MD

Clinicians in the Meeting Room

Networked iPads are available.



Review Program Slides: Tap the Program Slides button to review speaker presentations and other program content.



Answer Survey Questions: Complete the pre- and postmeeting surveys.



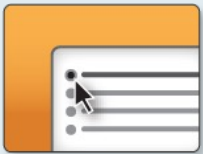
Ask a Question: Tap Ask a Question to submit a challenging case or question for discussion. We will aim to address as many questions as possible during the program.

For assistance, please raise your hand. Devices will be collected at the conclusion of the activity.

Clinicians Attending via Zoom



Review Program Slides: A link to the program slides will be posted in the chat room at the start of the program.



Answer Survey Questions: Complete the pre- and postmeeting surveys.



Ask a Question: Submit a challenging case or question for discussion using the Zoom chat room.



Get CME Credit: A CME credit link will be provided in the chat room at the conclusion of the program.

About the Enduring Program

- The live meeting is being video and audio recorded.
- The proceedings from today will be edited and developed into an enduring web-based video/PowerPoint program.
An email will be sent to all attendees when the activity is available.
- To learn more about our education programs, visit our website, www.ResearchToPractice.com



Breakfast with the Investigators: Current and Emerging Role of Antibody-Drug Conjugates in the Treatment of Lung Cancer

Saturday, June 1, 2024

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Rebecca S Heist, MD, MPH

Luis Paz-Ares, MD, PhD

Moderator

Jacob Sands, MD

Consulting Oncologists



Neil Love, MD
Research To Practice
Miami, Florida



Laila Agrawal, MD
Norton Cancer Institute
Louisville, Kentucky



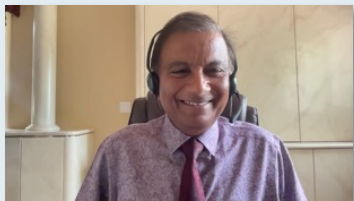
Spencer H Bachow, MD
Lynn Cancer Institute
Boca Raton, Florida



Warren S Brenner, MD
Lynn Cancer Institute
Boca Raton, Florida



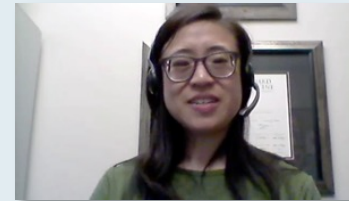
Gigi Chen, MD
John Muir Health
Pleasant Hill, California



Sunil Gandhi, MD
Florida Cancer Specialists
& Research Institute
Lecanto, Florida



Shaachi Gupta, MD, MPH
Florida Cancer Specialists
& Research Institute
Lake Worth, Florida



Kimberly Ku, MD
Bloomington, Illinois



Neil Morganstein, MD
Atlantic Health System
Summit, New Jersey



Estelamari Rodriguez, MD, MPH
Sylvester Comprehensive Cancer Center
Miami, Florida



Erik Rupard, MD
Intermountain Health
St George, Utah

Agenda

Module 1: Integration of Antibody-Drug Conjugates (ADCs) into the Care of Patients with Non-Small Cell Lung Cancer (NSCLC) and HER2 Alterations — Dr Paz-Ares

Module 2: Emerging Role of TROP2-Targeted ADCs for NSCLC — Dr Sands

Module 3: Other Promising Targets for ADCs for Lung Cancer — Dr Heist

Agenda

Module 1: Integration of Antibody-Drug Conjugates (ADCs) into the Care of Patients with Non-Small Cell Lung Cancer (NSCLC) and HER2 Alterations — Dr Paz-Ares

Module 2: Emerging Role of TROP2-Targeted ADCs for NSCLC — Dr Sands

Module 3: Other Promising Targets for ADCs for Lung Cancer — Dr Heist

Consulting Faculty Comments

Trastuzumab deruxtecan as first-line therapy for NSCLC with a HER2 mutation; approach to HER2 testing



Dr Gigi Chen (Pleasant Hill, California)

QUESTIONS FOR THE FACULTY

For patients with NSCLC with a HER2 mutation, where in the treatment sequence are you typically offering trastuzumab deruxtecan (T-DXd)?

Does the response rate with this agent justify its use as a first-line approach?

QUESTIONS FOR THE FACULTY

Are you generally assessing HER2 overexpression in your patients with NSCLC?

Are you now offering T-DXd to all of your patients with HER2-positive (IHC 3+) NSCLC?

Where in the treatment course are you integrating this agent?

Consulting Faculty Comments

Identification and management of interstitial lung disease (ILD) and other adverse events associated with trastuzumab deruxtecan



Dr Shaachi Gupta
(Lake Worth, Florida)



Dr Erik Rupard
(St George, Utah)



Dr Kimberly Ku
(Bloomington, Illinois)



Dr Estelamari Rodriguez
(Miami, Florida)

QUESTIONS FOR THE FACULTY

What are the most common toxicities that have been noted with T-DXd?

Which of these do you find most challenging to manage?

Which of these do you believe are most detrimental to patient quality of life?

QUESTIONS FOR THE FACULTY

How specifically are you monitoring for ILD in your patients receiving T-DXd?

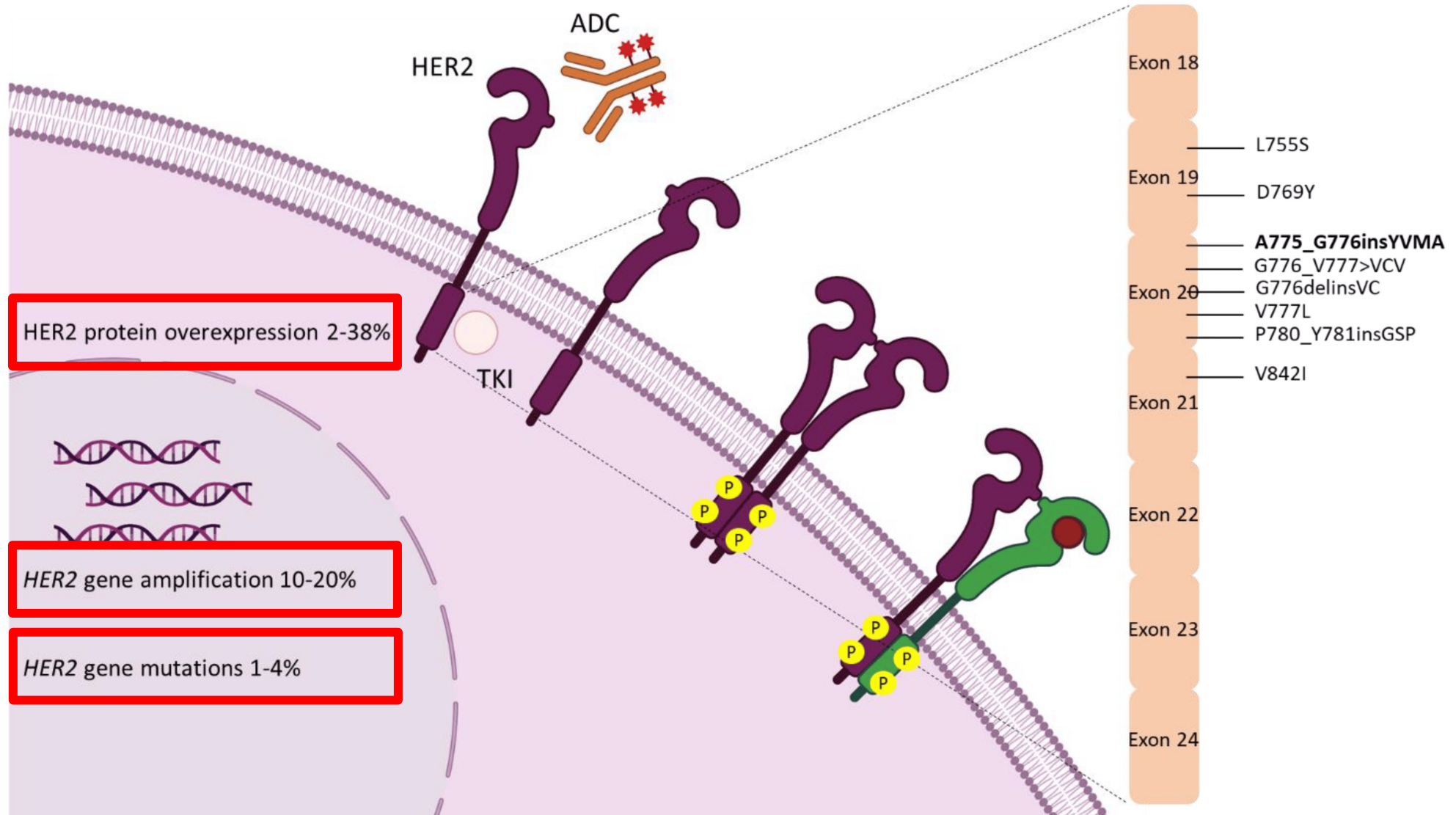
At what level of ILD are you permanently discontinuing treatment, even after resolution of symptoms?

Should these approaches be employed for other deruxtecan-based ADCs, such as datopotamab deruxtecan (Dato-DXd) and patritumab deruxtecan?

Integration of Antibody-Drug Conjugates into the Care of Patients with Non-Small Cell Lung Cancer and HER2 Alterations

**Luis Paz-Ares, MD, PhD
Hospital Universitario 12 de Octubre
Madrid, Spain**

HER2 as a Targetable Biomarker in NSCLC

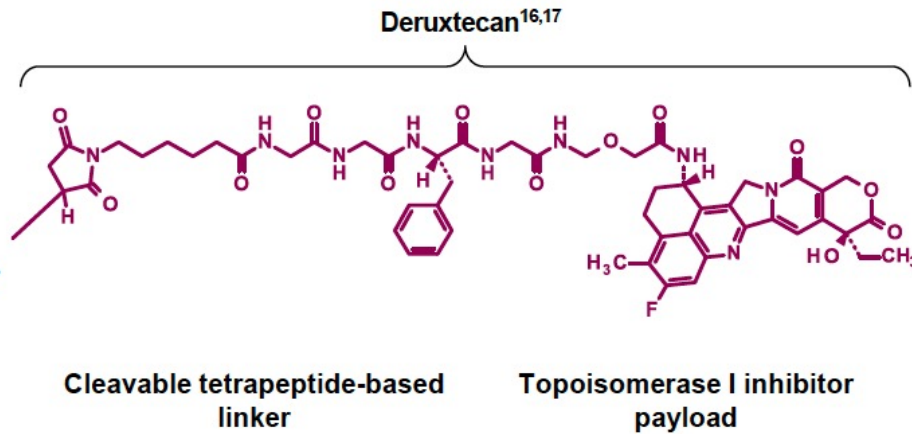
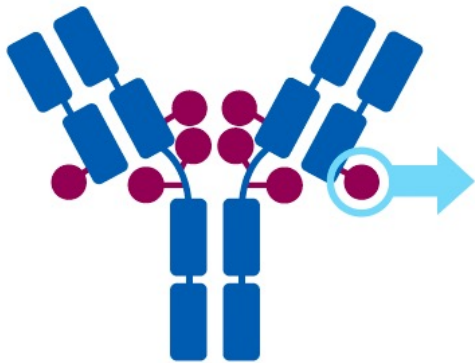


Antibody-Drug Conjugate Trastuzumab Deruxtecan (T-DXd)

T-DXd is an ADC with 3 components:

- A humanized anti-HER2 IgG1 mAb with the same amino acid sequence as trastuzumab
- A topoisomerase I inhibitor payload, an exatecan derivative
- A tetrapeptide-based cleavable linker

Humanized anti-HER2 IgG1
monoclonal antibody¹⁶⁻¹⁸



HER2, human epidermal growth factor receptor 2; IgG1; immunoglobulin 1

Payload mechanism of action:
topoisomerase I inhibitor

High potency of payload

High drug to antibody ratio ≈ 8

Payload with short systemic half-life

Stable linker-payload

Tumor-selective cleavable linker

Membrane-permeable payload

ORIGINAL ARTICLE

Trastuzumab Deruxtecan in *HER2*-Mutant Non–Small-Cell Lung Cancer

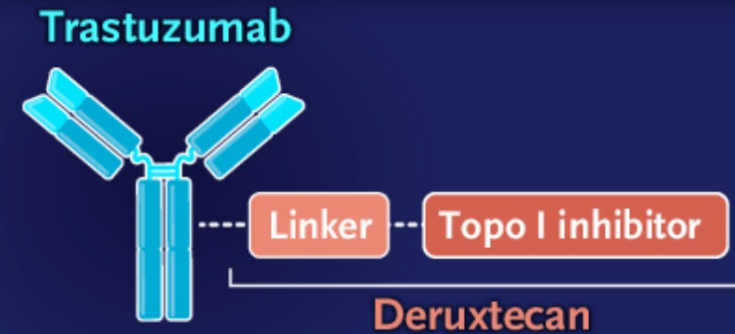
Bob T. Li, M.D., Ph.D., M.P.H., Egbert F. Smit, M.D., Ph.D.,
Yasushi Goto, M.D., Ph.D., Kazuhiko Nakagawa, M.D., Hibiki Udagawa, M.D.,
Julien Mazières, M.D., Misako Nagasaka, M.D., Ph.D., Lyudmila Bazhenova, M.D.,
Andreas N. Saltos, M.D., Enriqueta Felip, M.D., Ph.D., Jose M. Pacheco, M.D.,
Maurice Pérol, M.D., Luis Paz-Ares, M.D., Kapil Saxena, M.D., Ryota Shiga, B.Sc.,
Yingkai Cheng, M.D., Ph.D., Suddhasatta Acharya, Ph.D., Patrik Vitazka, M.D., Ph.D.,
Javad Shahidi, M.D., David Planchard, M.D., Ph.D., and Pasi A. Jänne, M.D., Ph.D.,
for the DESTINY-Lung01 Trial Investigators*

Phase II DESTINY-Lung01 Study

MULTICENTER, INTERNATIONAL, PHASE 2 STUDY

91

Adults with metastatic *HER2*-mutant NSCLC refractory to standard treatment (median follow-up, 13 mo)



Confirmed objective response
(assessed by independent central review)

55% (95% CI, 44–65)

Duration of response

9.3 mo

Progression-free survival

8.2 mo

Overall survival

17.8 mo

Grade 3 or higher drug-related adverse events occurred in 46% of patients.

Trastuzumab deruxtecan showed durable anticancer activity.

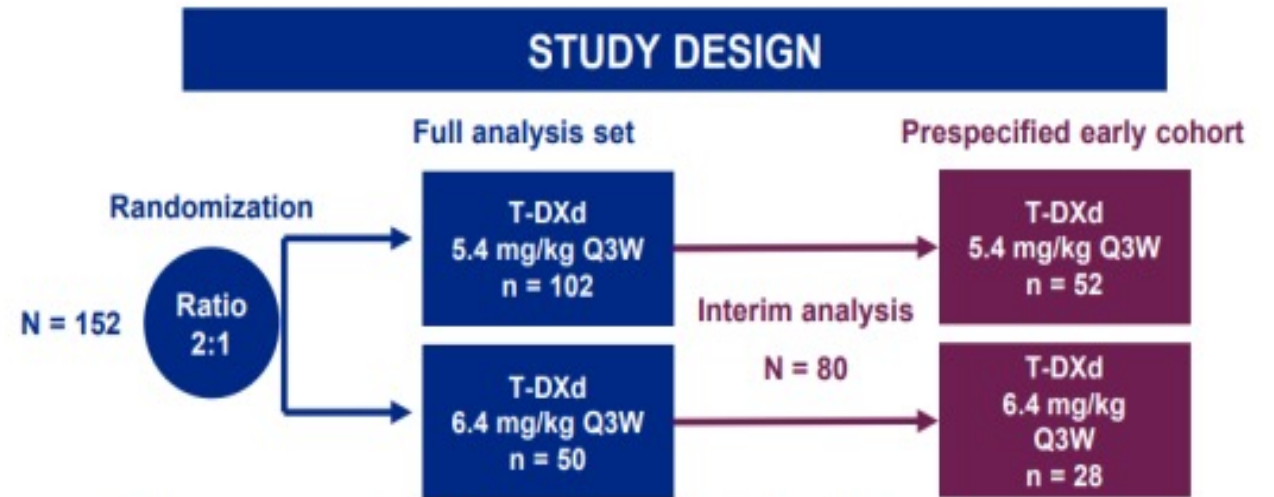
Phase II DESTINY-Lung02 Study

Key eligibility criteria

- Metastatic *HER2m* NSCLC
- Activating *HER2* mutation
- ≥ 1 prior anti-cancer therapy (2L+), including platinum-based chemotherapy
- Measurable disease by BICR based on RECIST v1.1
- ECOG PS of 0 or 1

Stratification factor:

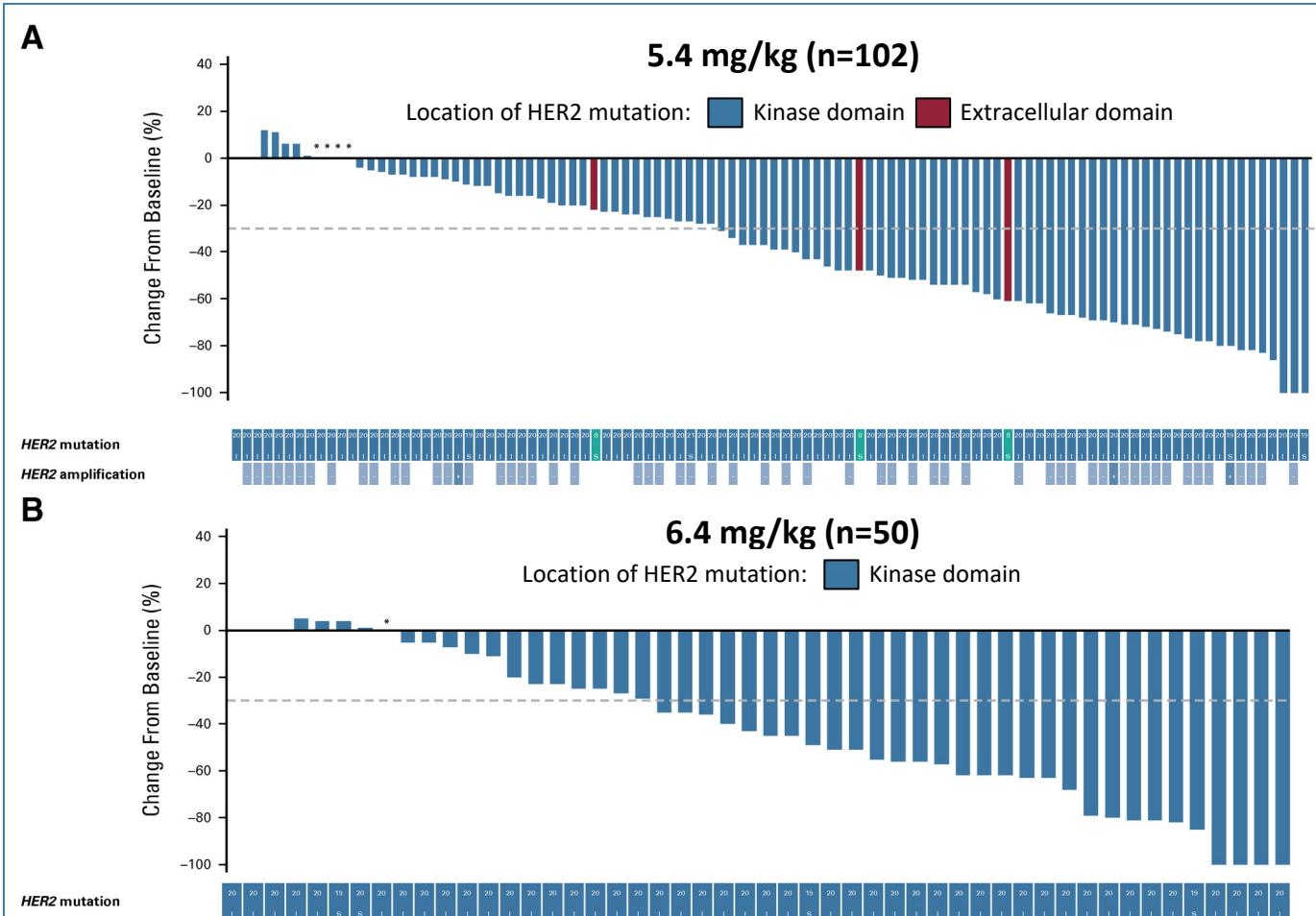
- Previous use of anti-PD-(L)1



Data cutoff: Mar 24, 2022

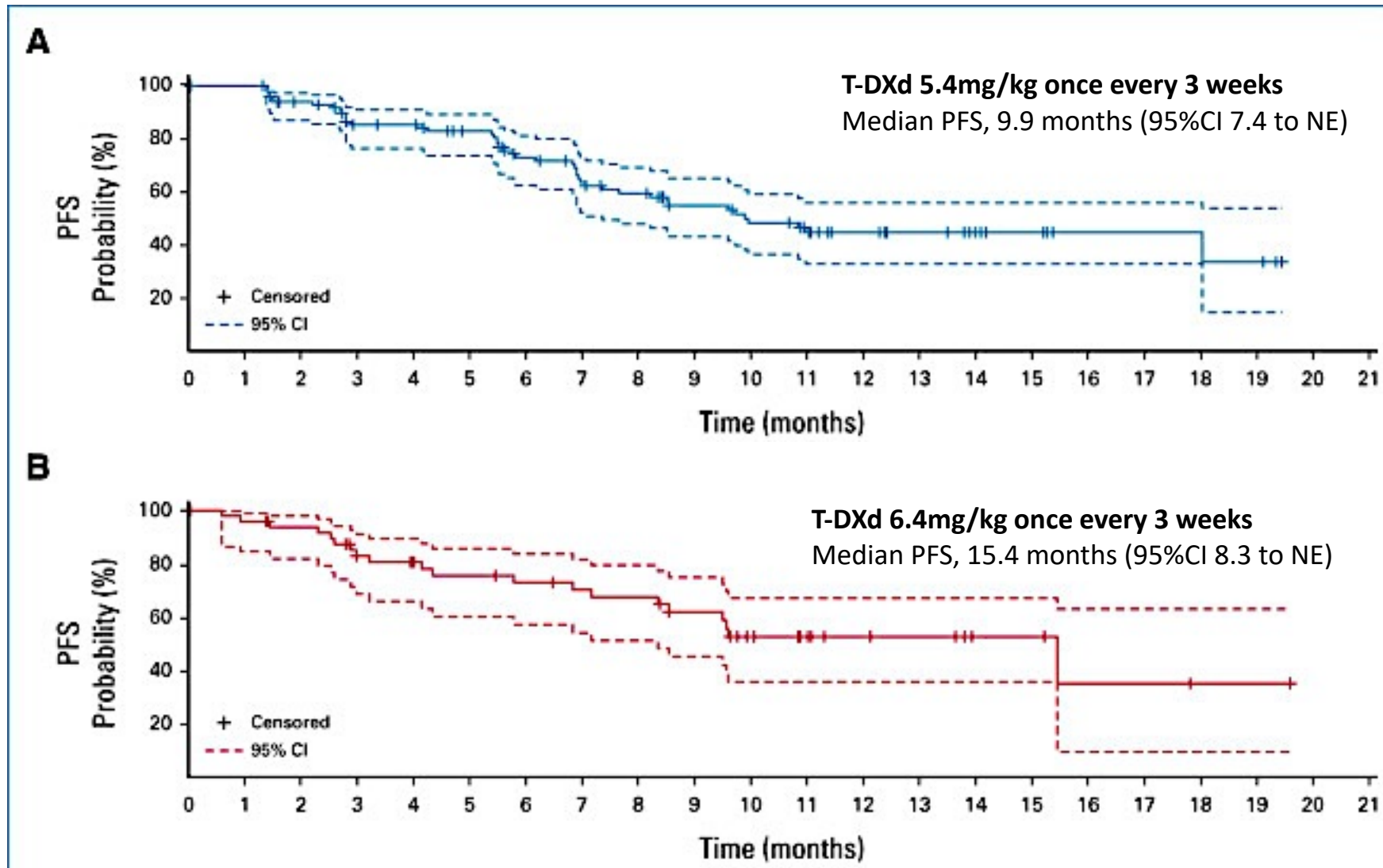
Median follow-up: 5.54 months (range 0.6-12.1 months)

DESTINY-Lung02: Responses by Dose

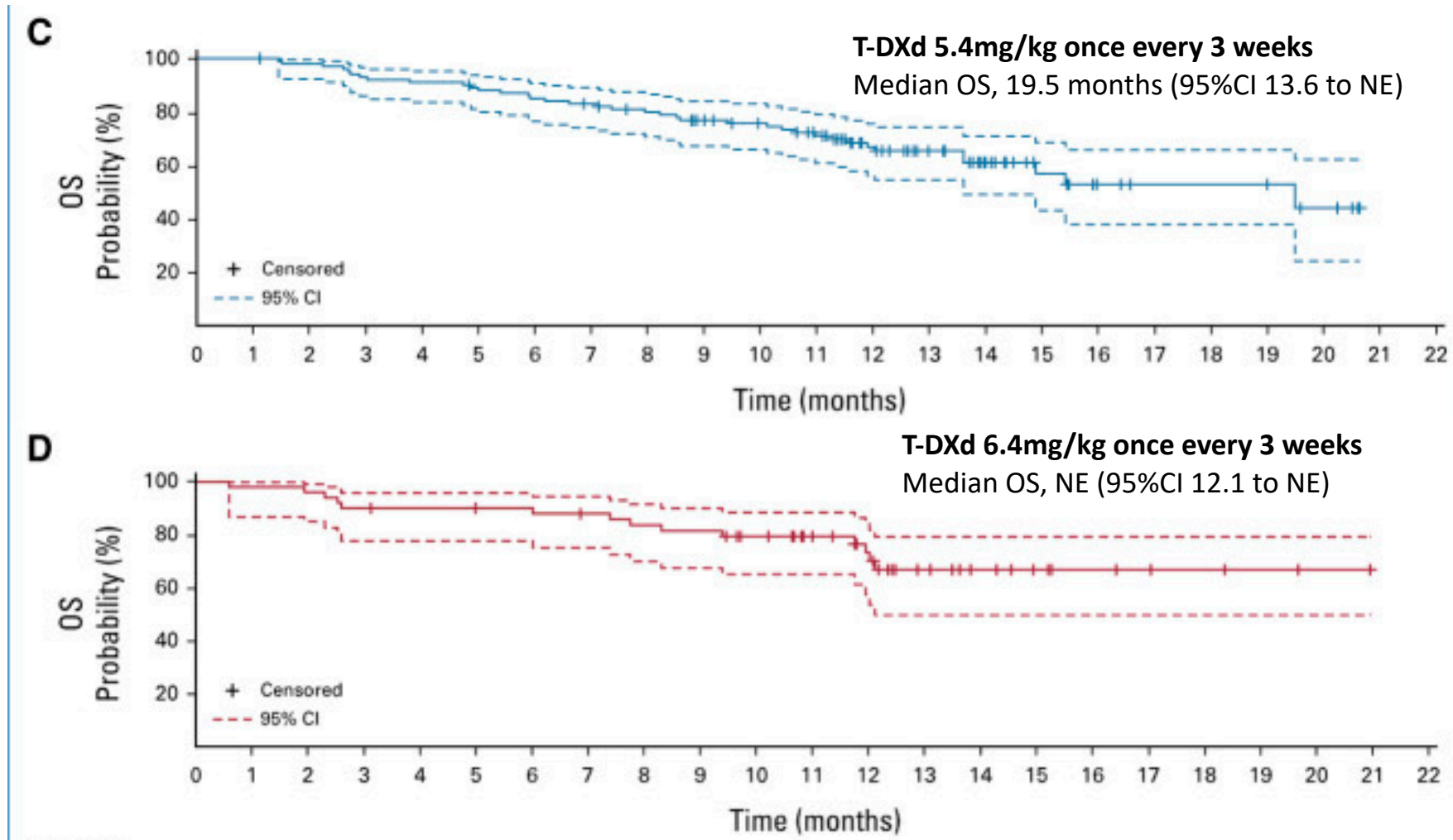


	T-DXd 5.4 mg/kg Once Every 3 Weeks (n = 102)	T-DXd 6.4 mg/kg Once Every 3 Weeks (n = 50)
Response Assessment by BICR		
Confirmed ORR, No. (%)	50 (49.0)	28 (56.0)
95% CI	39.0 to 59.1	41.3 to 70.0
Best confirmed overall response, No. (%)		
CR	1 (1.0)	2 (4.0)
PR	49 (48.0)	26 (52.0)
SD	45 (44.1)	18 (36.0)
PD	4 (3.9)	2 (4.0)
Nonevaluable ^a	3 (2.9)	2 (4.0)
DCR, No. (%)	95 (93.1)	46 (92.0)
95% CI	86.4 to 97.2	80.8 to 97.8
DoR, months, median (95% CI)	16.8 (6.4 to NE)	NE (8.3 to NE)
TTIR, months, median (range)	1.8 (1.2-7.0)	1.6 (1.2-11.2)
Follow-up, months, median (range)	11.5 (1.1-20.6)	11.8 (0.6-21.0)

DESTINY-Lung02: PFS by Dose



DESTINY-Lung02: OS by Dose



DESTINY-Lung02: Final Analysis Results

Efficacy Summary		
	T-DXd 5.4 mg/kg (n=102)	T-DXd 6.4 mg/kg (n=50)
cORR,^a % (95% CI)	50.0 (39.9-60.1)	56.0 (41.3-70.0)
Median DoR, mo (95% CI)	12.6 (6.4-NE)	12.2 (7.0-NE)
Median PFS, mo (95% CI)	10.0 (7.7-15.2)	12.9 (7.2-16.7)
Median OS, mo (95% CI)	19.0 (14.7-NE)	17.3 (13.8-NE)

Adjudicated drug-related interstitial lung disease (ILD)/pneumonitis was reported in 14.9% (15/101) and 32.0% (16/50) of patients in the T-DXd 5.4 and 6.4 mg/kg arms, respectively; most events were grade 1 or 2 (1 grade 5 event in each arm).

NE; not estimable

^aBy BICR

Janne PA et al. ASCO 2024. Abstract 8543.

DESTINY-Lung02: Common TRAEs

Preferred Term	T-DXd 5.4 mg/kg Once Every 3 Weeks (n = 101), ^a No. (%)		T-DXd 6.4 mg/kg Once Every 3 Weeks (n = 50), ^a No. (%)	
	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3
Nausea	68 (67.3)	4 (4.0)	41 (82.0)	3 (6.0)
Neutropenia ^b	43 (42.6)	19 (18.8)	28 (56.0)	18 (36.0)
Fatigue ^b	45 (44.6)	8 (7.9)	25 (50.0)	5 (10.0)
Decreased appetite	40 (39.6)	2 (2.0)	25 (50.0)	2 (4.0)
Anemia ^b	37 (36.6)	11 (10.9)	26 (52.0)	8 (16.0)
Vomiting	32 (31.7)	3 (3.0)	22 (44.0)	1 (2.0)
Constipation	37 (36.6)	1 (1.0)	16 (32.0)	0
Leukopenia ^b	29 (28.7)	5 (5.0)	17 (34.0)	8 (16.0)
Thrombocytopenia ^b	28 (27.7)	6 (5.9)	14 (28.0)	5 (10.0)
Diarrhea	23 (22.8)	1 (1.0)	18 (36.0)	2 (4.0)
Alopecia	22 (21.8)	0	17 (34.0)	0
Transaminases increased ^b	22 (21.8)	3 (3.0)	10 (20.0)	0

DESTINY-Lung02: Adjudicated Drug-Related ILD

Adjudicated Drug-Related ILD in Patients With Prior Anti-PD-(L)1 Therapy	T-DXd 5.4 mg/kg Once Every 3 Weeks (n = 74), No. (%)	T-DXd 6.4 mg/kg Once Every 3 Weeks (n = 39), No. (%)
Grade 1	4 (5.4)	2 (5.1)
Grade 2	5 (6.8)	9 (23.1)
Grade 3	1 (1.4)	0
Grade 4	0	0
Grade 5	1 (1.4)	0
Total	11 (14.9)	11 (28.2)

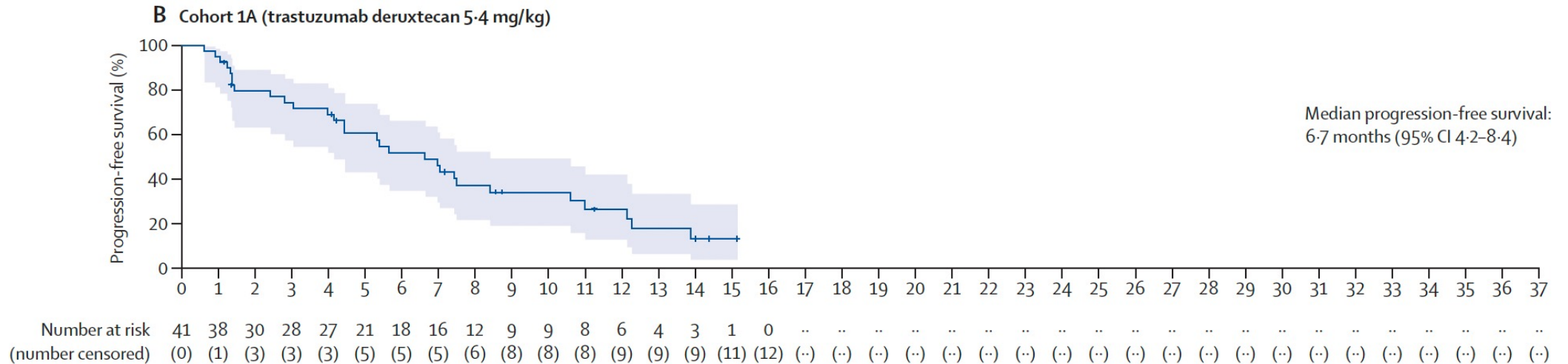
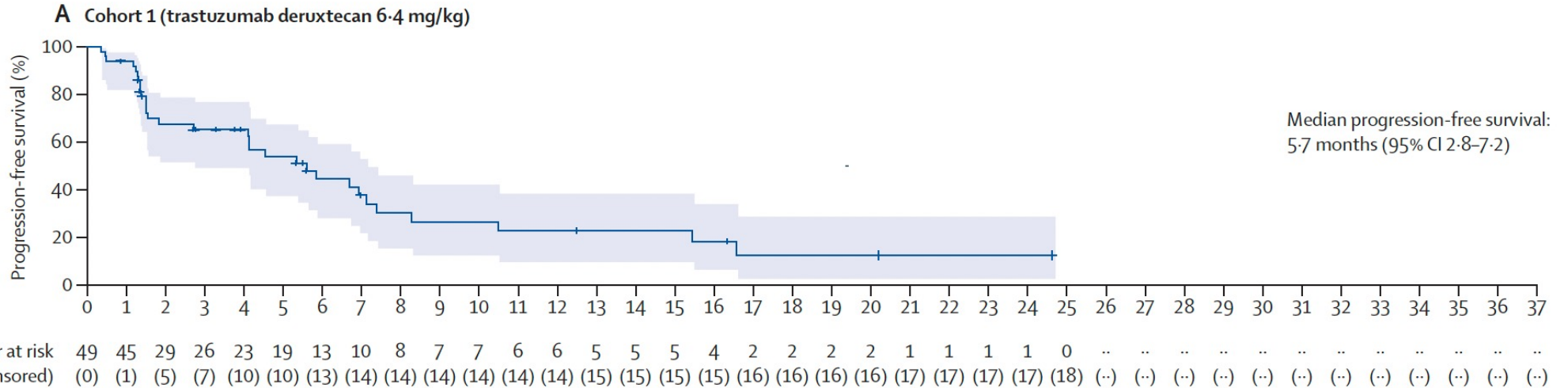
Adjudicated Drug-Related ILD in Patients Without Prior Anti-PD-(L)1 Therapy	T-DXd 5.4 mg/kg Once Every 3 Weeks (n = 27), No. (%)	T-DXd 6.4 mg/kg Once Every 3 Weeks (n = 11), No. (%)
Grade 1	0	2 (18.2)
Grade 2	2 (7.4)	0
Grade 3	0	0
Grade 4	0	0
Grade 5	0	1 (9.1)
Total	2 (7.4)	3 (27.3)

*Two of the three patients with grade 1 ILD in the 6.4 mg/kg arm were retreated with T-DXd, both with negative rechallenge (no recurrence of ILD/pneumonitis after retreatment with T-DXd).

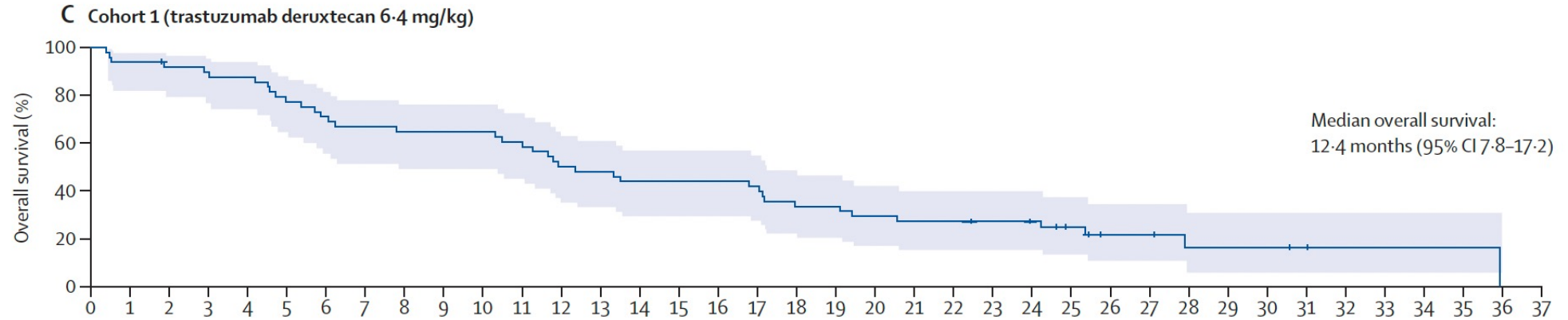
Trastuzumab deruxtecan in patients with metastatic non-small-cell lung cancer (DESTINY-Lung01): primary results of the HER2-overexpressing cohorts from a single-arm, phase 2 trial

Egbert F Smit, Enriqueta Felip, Dipesh Uprety, Misako Nagasaka, Kazuhiko Nakagawa, Luis Paz-Ares Rodríguez, Jose M Pacheco, Bob T Li, David Planchard, Christina Baik, Yasushi Goto, Haruyasu Murakami, Andreas Saltos, Kaline Pereira, Ayumi Taguchi, Yingkai Cheng, Qi Yan, Wenqin Feng, Zenta Tsuchihashi, Pasi A Jänne

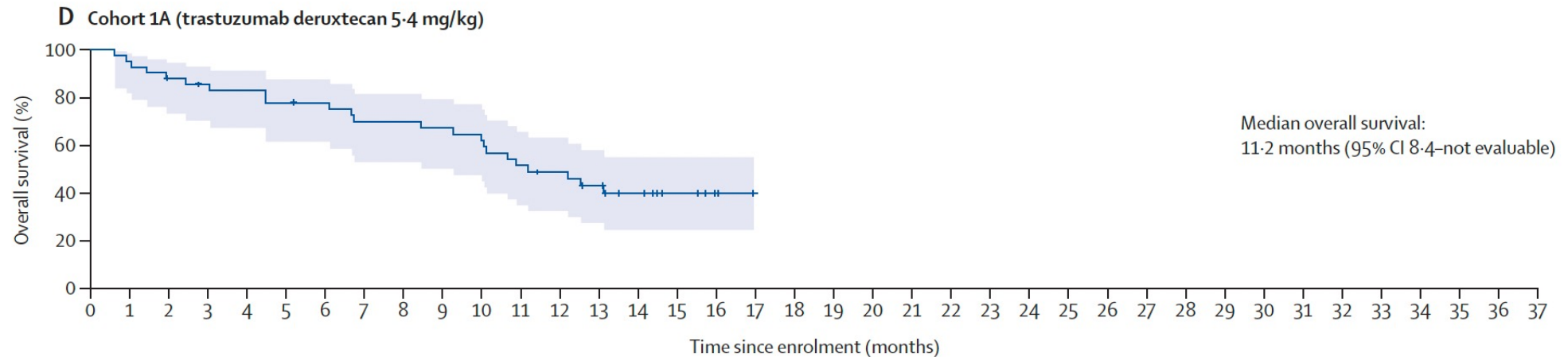
DESTINY-Lung01: PFS by T-DXd Dose — HER2 Overexpression Cohort Data



DESTINY-Lung01: OS by T-DXd Dose — HER2 Overexpression Cohort Data



Number at risk	49	46	44	43	42	37	34	32	31	31	31	29	24	23	21	21	21	20	17	16	14	13	13	12	11	8	5	5	3	3	3	2	1	1	1	1	1	0		
(number censored)	(0)	(0)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(2)	(3)	(5)	(7)	(7)	(8)	(8)	(8)	(8)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)



Number at risk	41	39	35	33	32	30	29	26	26	25	23	19	17	14	10	5	2	0	
(number censored)	(0)	(0)	(1)	(2)	(2)	(2)	(3)	(3)	(3)	(3)	(3)	(3)	(4)	(5)	(8)	(13)	(17)	(18)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)	(..)

DESTINY-Lung01: Most Common Adverse Events — HER2 Overexpression Cohort Data

	Cohort 1 (6.4 mg/kg); N=49				Cohort 1A (5.4 mg/kg); N=41			
	Grades 1–2	Grade 3	Grade 4	Grade 5	Grade 1–2	Grade 3	Grade 4	Grade 5
Nausea	26 (53%)	3 (6%)	0	0	28 (68%)	2 (5%)	0	0
Fatigue	23 (47%)	6 (12%)	0	0	26 (63%)	3 (7%)	0	0
Decreased appetite	20 (41%)	2 (4%)	0	0	19 (46%)	0	0	0
Constipation	15 (31%)	0	0	0	10 (24%)	0	0	0
Vomiting	13 (27%)	2 (4%)	0	0	12 (29%)	1 (2%)	0	0
Diarrhoea	12 (24%)	2 (4%)	0	0	13 (32%)	2 (5%)	0	0
Weight decreased	12 (24%)	0	0	0	7 (17%)	1 (2%)	0	0
Anaemia	10 (20%)	3 (6%)	1 (2%)	0	8 (20%)	3 (7%)	0	0
Alopecia	10 (20%)	0	0	0	5 (12%)	0	0	0
Dyspnoea	8 (16%)	5 (10%)	0	0	10 (24%)	1 (2%)	0	1 (2%)
Dizziness	8 (16%)	2 (4%)	0	0	3 (7%)	0	0	0
Thrombocytopenia	7 (14%)	1 (2%)	1 (2%)	0	3 (7%)	0	0	0
Hypokalaemia	6 (12%)	2 (4%)	0	0	1 (2%)	2 (5%)	0	0
Stomatitis	6 (12%)	0	0	0	2 (5%)	0	0	0
Cough	6 (12%)	0	0	0	12 (29%)	0	0	0
Pneumonitis	5 (10%)	1 (2%)	1 (2%)	1 (2%)†	2 (5%)	0	0	0
Blood creatinine increased	5 (10%)	0	0	0	3 (7%)	0	0	0
Upper respiratory tract infection	5 (10%)	0	0	0	1 (2%)	0	0	0

FDA Grants Accelerated Approval to Fam-Trastuzumab-Deruxtecan-Nxki for Unresectable or Metastatic HER2-Positive Solid Tumors

Press Release – April 5, 2024

“...the Food and Drug Administration granted accelerated approval to fam-trastuzumab deruxtecan-nxki for adult patients with unresectable or metastatic HER2-positive (IHC3+) solid tumors who have received prior systemic treatment and have no satisfactory alternative treatment options.

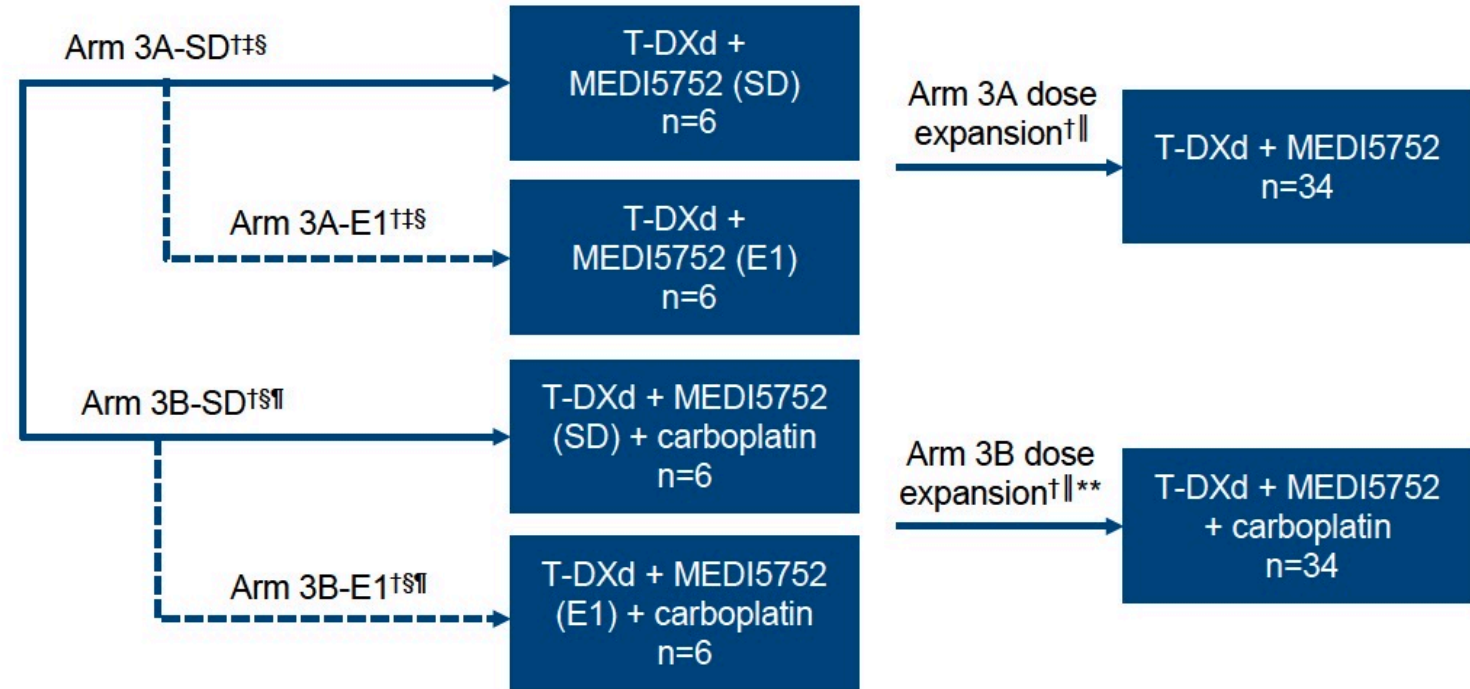
Efficacy was evaluated in 192 adult patients with previously treated unresectable or metastatic HER2-positive (IHC 3+) solid tumors who were enrolled in one of three multicenter trials: DESTINY-PanTumor02 (NCT04482309), DESTINY-Lung01 (NCT03505710), and DESTINY-CRC02 (NCT04744831).

The major efficacy outcome measure in all three trials was confirmed objective response rate (ORR), and an additional efficacy outcome was duration of response (DOR). All outcomes were assessed by independent central review (ICR) based on RECIST v1.1. In DESTINY-PanTumor02, ORR was 51.4% (95% CI: 41.7, 61.0) and median DOR was 19.4 months (range 1.3, 27.9+). In DESTINY-Lung01, ORR was 52.9% (95% CI: 27.8, 77.0) and median DOR was 6.9 months (range 4.0, 11.7+). In DESTINY-CRC02, ORR was 46.9% (95% CI: 34.3, 59.8), and DOR was 5.5 months (range 1.3+, 9.7+).”

Phase Ib DESTINY-Lung03: Study Design

Patient population for Part 3

- Unresectable, locally advanced or metastatic HER2-OE* nonsquamous NSCLC
- Naïve for non-curative treatment for locally advanced or metastatic NSCLC
- No *EGFR* mutations, *EML4-ALK* fusion, or other targetable alterations for which a targeted therapy is available
- WHO/ECOG performance status of 0 or 1



Primary Endpoint:
Frequency of AEs and SAEs

Phase III DESTINY-Lung04: Study Design

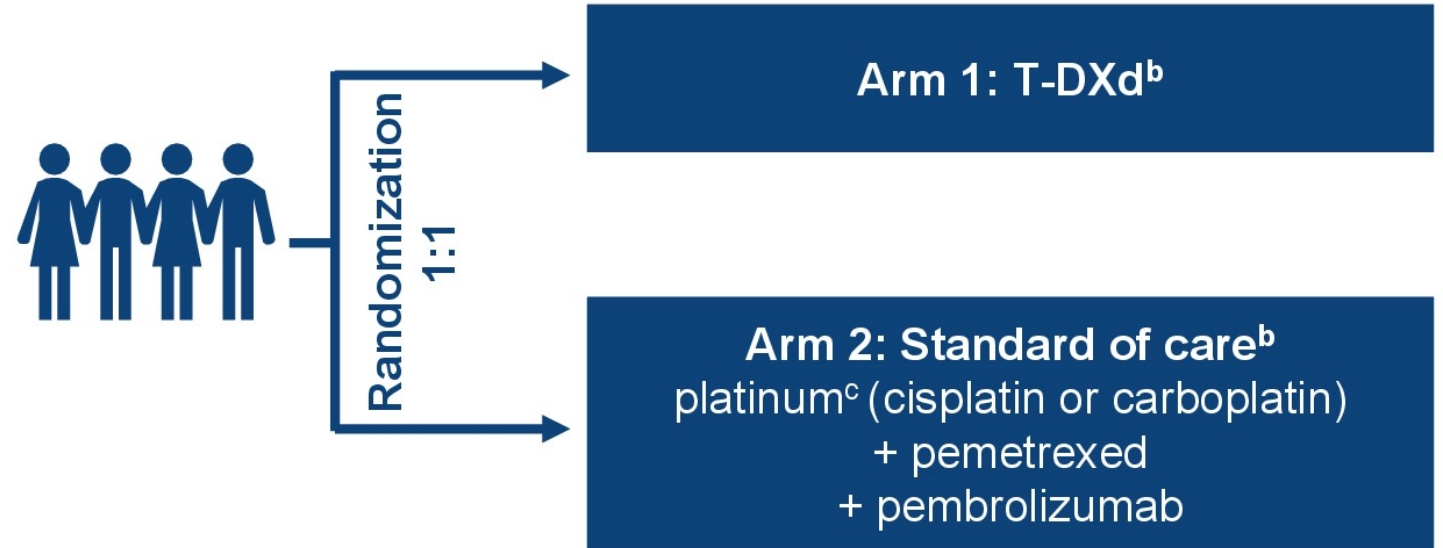
Patient population (N≈264)

- Unresectable, locally advanced (not amenable to curative therapy), or metastatic nonsquamous NSCLC with *HER2* exon 19 or 20 mutations^a
- Naive to systemic therapy in the locally advanced or metastatic setting
- No known other targetable oncogenic mutations/alterations

^a *HER2* mutations may be detected in tissue or ctDNA.

^b Crossover is not permitted.

^c Investigator's choice of cisplatin or carboplatin.



**Primary Endpoint:
PFS (by RECIST v1.1 per BICR)**

Agenda

Module 1: Integration of Antibody-Drug Conjugates (ADCs) into the Care of Patients with Non-Small Cell Lung Cancer (NSCLC) and HER2 Alterations — Dr Paz-Ares

Module 2: Emerging Role of TROP2-Targeted ADCs for NSCLC — Dr Sands

Module 3: Other Promising Targets for ADCs for Lung Cancer — Dr Heist

Consulting Faculty Comments

Integrating TROP2-directed ADCs into the management of lung cancer



Dr Gigi Chen (Pleasant Hill, California)

QUESTIONS FOR THE FACULTY

From a risk/benefit standpoint, how do you believe Dato-DXd compares to currently available therapies such as docetaxel?

Given what we currently know about Dato-DXd, would you like to have access to this agent for your patients with progressive NSCLC?

QUESTIONS FOR THE FACULTY

Is there a biological rationale as to why Dato-DXd would be more effective in patients with nonsquamous histology?

QUESTIONS FOR THE FACULTY

What are the most common toxicities that have been noted with Dato-DXd?

Which of these do you find most challenging to manage?

Which of these do you believe are most detrimental to patient quality of life?

QUESTIONS FOR THE FACULTY

What strategies do you employ to prevent stomatitis/oral mucositis in patients receiving Dato-DXd?

For patients who develop stomatitis/oral mucositis while receiving the drug, what can be done to manage it?



Trop2 Antibody-Drug Conjugates

Jacob Sands, MD

June 2024

Trophoblast-Cell Surface Antigen 2 (TROP 2)

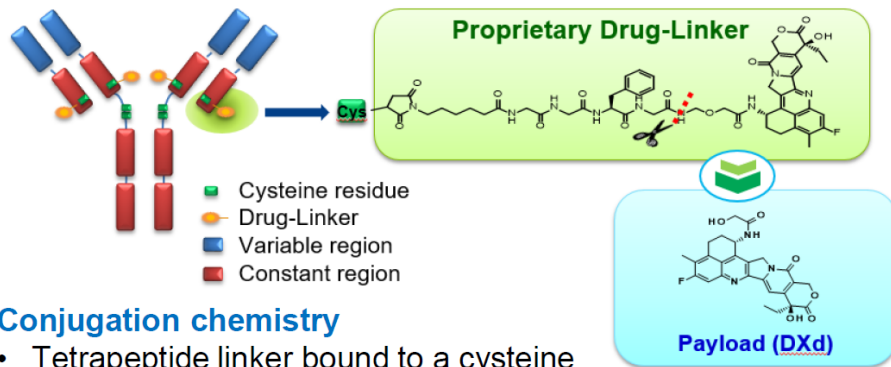
- Initially discovered in human trophoblast and choriocarcinoma cells
- An intracellular calcium signal transducer overexpressed in various epithelial cancers
- Associated with poor prognosis in some data sets
- Not expressed in normal tissue
- Encoded by TACSTD2
- Role is not fully understood but thought to have a role in growth and proliferation of carcinoma cells
- Thought to be an oncogene with a role in initiating signaling mechanisms that can increase tumorigenicity, aggressiveness, and metastasis

Basu A, et al. Int J Cancer. 1995
Lipinski M, et al. Proc Natl Acad Sci U S A. 1981
Shvartsur A, et al. Genes Cancer. 2015
Wang J, et al. Mol Cancer Ther. 2008
Ohmachi, et al. Clin Cancer Res. 2006;12:3057

TROP2 Antibody-Drug Conjugates

Datopotamab Deruxtecan (DS-1062)

DS-1062a structure: TROP2-targeting antibody-drug conjugate¹ with a novel topoisomerase I inhibitor (DXd)^{2,3}

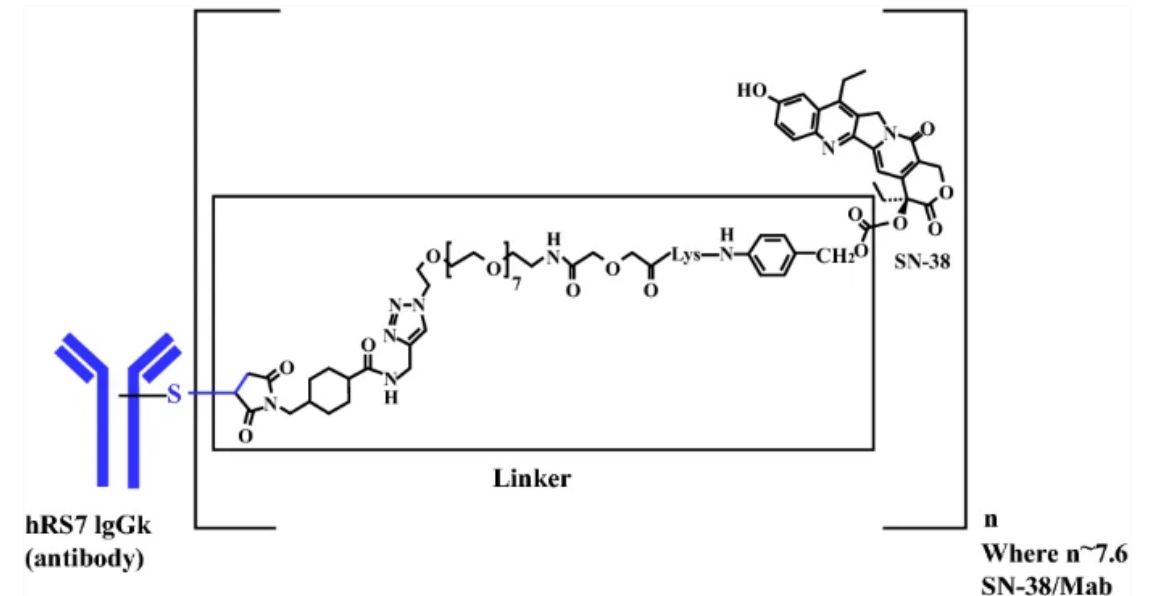


Conjugation chemistry

- Tetrapeptide linker bound to a cysteine residue of the antibody
- DS-1062a is a selective DAR4 conjugate

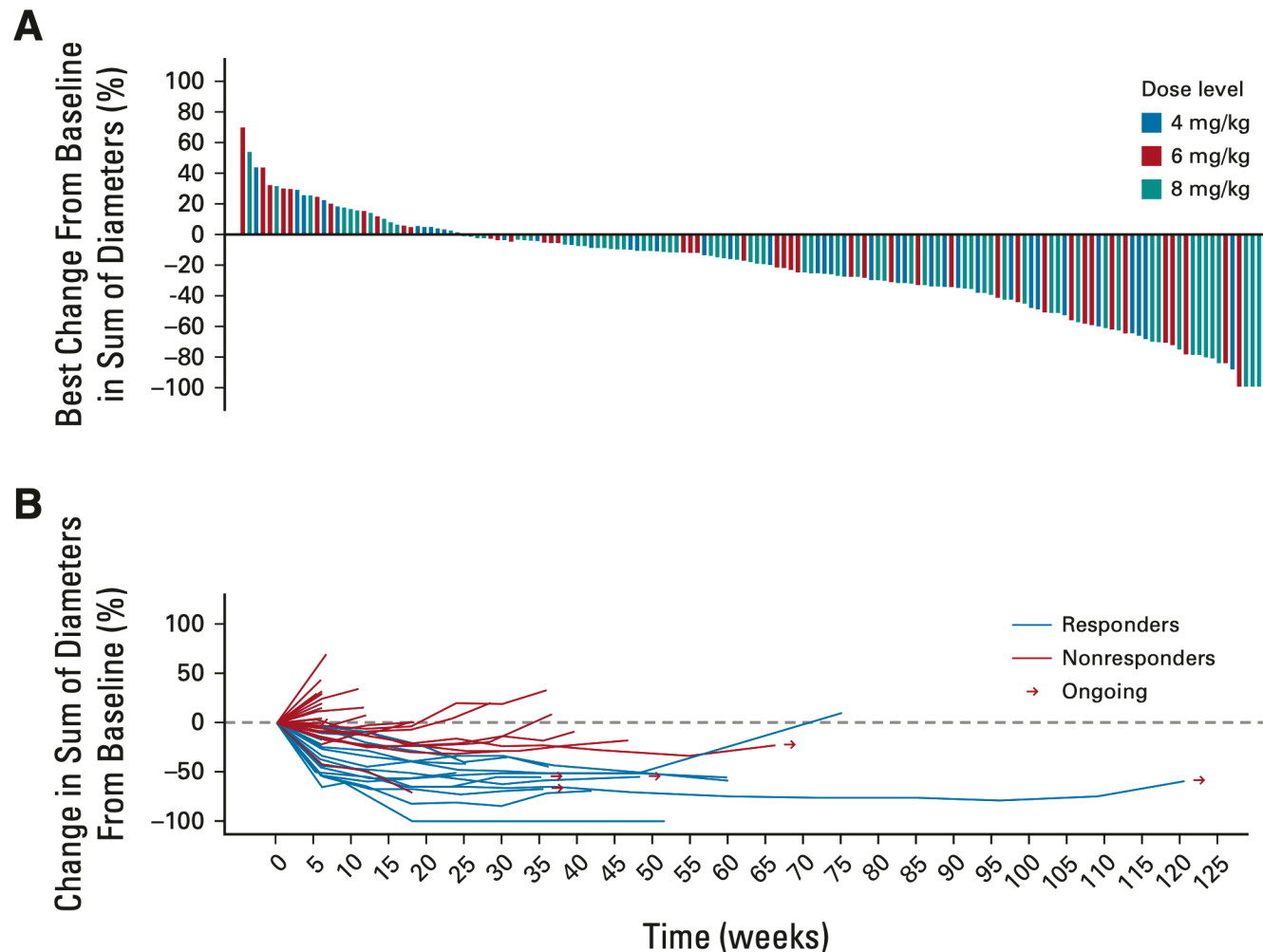
Sands et al. ASCO 2018

Sacituzumab govitecan



Syed YY. Drugs 2020;80:1019-1025

Datopotamab Deruxtecan (Dato-DXd): TROPION-PanTumor01 (NSCLC)



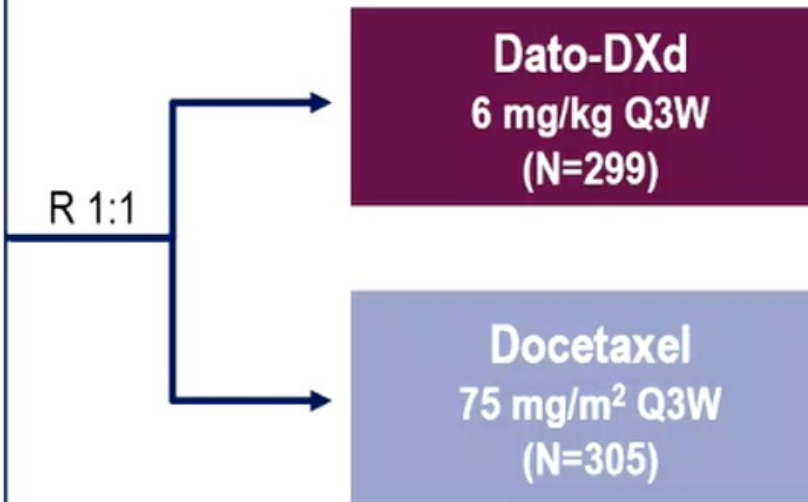
Response	Dato-DXd Dose		
	4 mg/kg (n = 50)	6 mg/kg (n = 50)	8 mg/kg (n = 80)
Confirmed ORR, No. (%)	11 (22)	13 (26)	19 (23.8)
95% CI	11.5 to 36.0	14.6 to 40.3	14.9 to 34.6
CR	0	0	1 (1.3)
PR	11 (22)	13 (26)	18 (22.5)
ORR confirmed and pending confirmation, No. (%)	15 (30)	16 (32)	25 (31.3)
PR pending confirmation	4 (8)	3 (6)	6 (7.5)
DCR, No. (%)	38 (76)	35 (70)	63 (78.8)
95% CI	61.8 to 86.9	55.4 to 82.1	68.2 to 87.1
SD, No. (%)	26 (52)	20 (40)	42 (52.5)
Non-CR/PD, No. (%)	1 (2)	2 (4)	2 (2.5)
PD, No. (%)	7 (14)	10 (20)	8 (10)
NE, No. (%)	5 (10)	5 (10)	9 (11.3)
TTR, months, median (range)	1.4 (1.2-8.2)	1.4 (1.2 to 5.7)	1.4 (1.2 to 13.7)
DOR, months, median (95% CI)	12.7 (2.8 to NE)	10.5 (5.6 to 26.5)	9.6 (5.8 to NE)
PFS, months, median (95% CI)	4.3 (2.9 to 6.9)	6.9 (2.7 to 8.8)	5.2 (4.1 to 7.1)
OS, months, median (95% CI)	12.9 (9.4 to NE)	11.4 (7.1 to 20.6)	10.5 (8.0 to 12.0)

TROPION-Lung01

Randomized, Phase 3, Open-Label, Global Study (NCT04656652)

Key Eligibility Criteria

- NSCLC (stage IIIB, IIIC, or IV)
 - ECOG PS of 0 or 1
 - No prior docetaxel
- Without actionable genomic alterations^a**
- 1 or 2 prior lines, including platinum CT and anti-PD-(L)1 mAb therapy
- With actionable genomic alterations**
- Positive for *EGFR*, *ALK*, *NTRK*, *BRAF*, *ROS1*, *MET* exon 14 skipping, or *RET*
 - 1 or 2 prior approved targeted therapies + platinum-based CT, and ≤1 anti-PD-(L)1 mAb



Dual Primary Endpoints

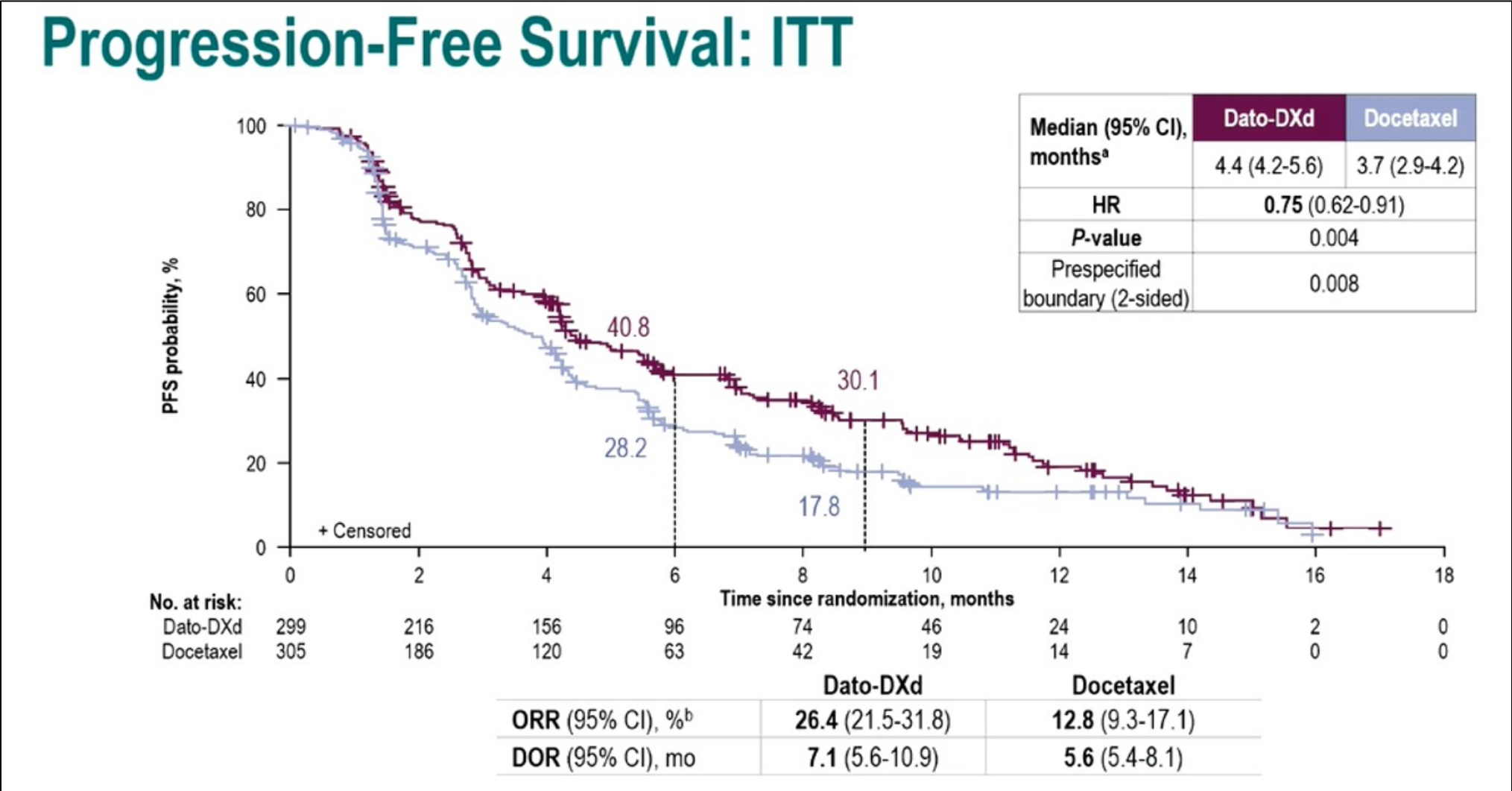
- PFS by BICR
- OS

Secondary Endpoints

- ORR by BICR
- DOR by BICR
- Safety

Stratified by: histology,^b actionable genomic alteration,^c anti-PD-(L)1 mAb included in most recent prior therapy, geography^d

Datopotamab Deruxtecan (Dato-DXd)

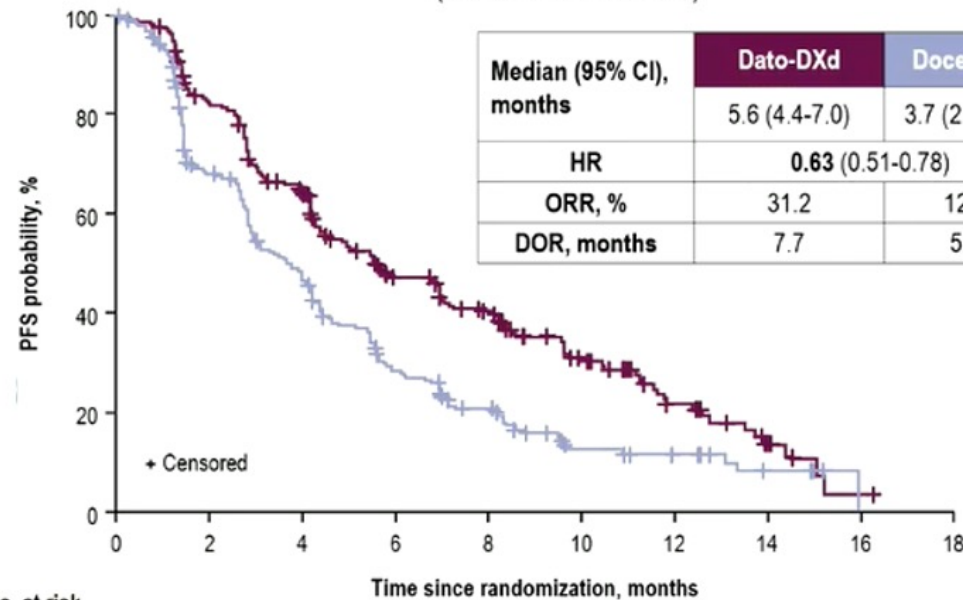


Datopotamab Deruxtecan (Dato-DXd)

PFS by Histology

Non-squamous

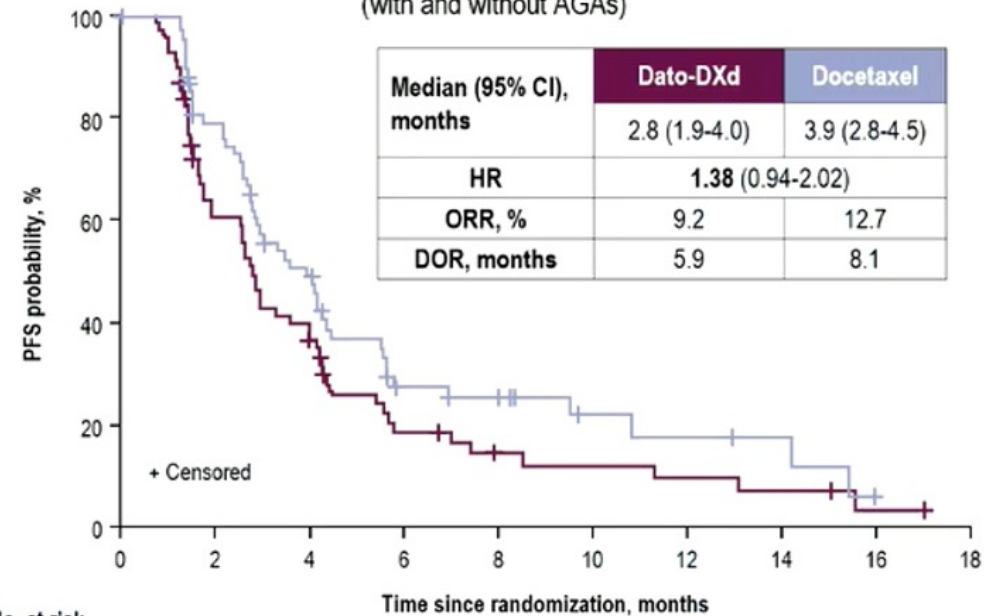
(with and without AGAs)



No. at risk	Time since randomization, months									
	0	2	4	6	8	10	12	14	16	18
Dato-DXd	229	178	134	86	68	41	20	7	1	0
Docetaxel	232	135	90	50	32	14	10	4	0	0

Squamous

(with and without AGAs)

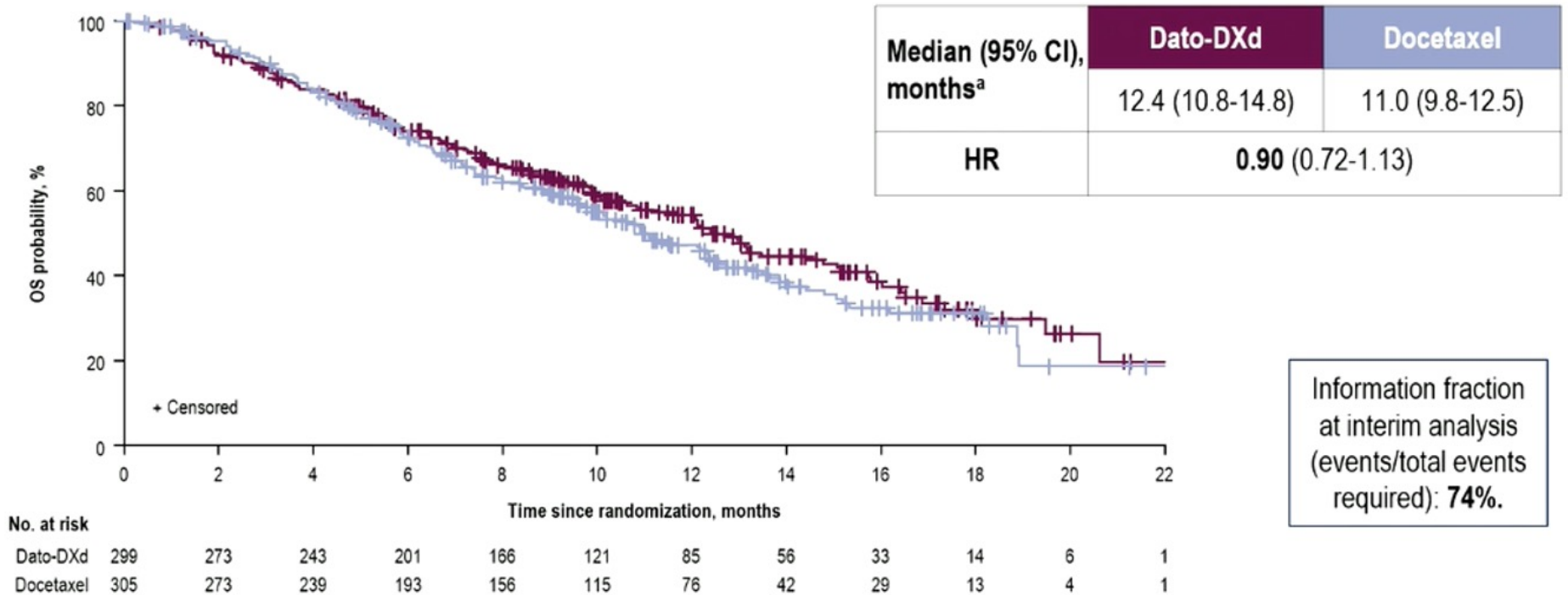


No. at risk	Time since randomization, months									
	0	2	4	6	8	10	12	14	16	18
Dato-DXd	70	38	22	10	6	5	4	3	1	0
Docetaxel	73	51	30	13	10	5	4	3	0	0

PFS HR for non-squamous without AGAs: 0.71 (0.56, 0.91)

Datopotamab Deruxtecan (Dato-DXd)

Interim Overall Survival: ITT



Non-squamous HR (95% CI): 0.77 (0.59-1.01); Squamous HR (95% CI): 1.32 (0.87-2.00)

Trial is continuing to final OS analysis

HR, hazard ratio; ITT, intention to treat; OS, overall survival.

^aMedian OS follow-up was 11.8 (95% CI, 11.3-12.7) and 11.7 (95% CI, 10.9-12.9) months for Dato-DXd and docetaxel, respectively.

TROPION-Lung01

TRAEs Occurring in $\geq 10\%$ of Patients

System organ class Preferred term, n (%)	Dato-DXd N=297		Docetaxel N=290	
	Any grade	Grade ≥ 3	Any grade	Grade ≥ 3
Blood and lymphatic system				
Anemia	43 (15)	11 (4)	59 (20)	11 (4)
Neutropenia ^a	12 (4)	2 (1)	76 (26)	68 (23)
Gastrointestinal				
Stomatitis	140 (47)	19 (6)	45 (16)	3 (1)
Nausea	100 (34)	7 (2)	48 (17)	3 (1)
Vomiting	38 (13)	3 (1)	22 (8)	1 (0.3)
Constipation	29 (10)	0	30 (10)	0
Diarrhea	28 (9)	1 (0.3)	55 (19)	4 (1)
General				
Asthenia	55 (19)	8 (3)	55 (19)	5 (2)
Fatigue	34 (11)	2 (1)	40 (14)	6 (2)
Metabolism and nutrition				
Decreased appetite	68 (23)	1 (0.3)	45 (16)	1 (0.3)
Skin and subcutaneous				
Alopecia	95 (32)	0	101 (35)	1 (0.3) ^b
Rash	36 (12)	0	18 (6)	0
Pruritus	30 (10)	0	12 (4)	0

Lisberg et al. ESMO 2023

Datopotamab Deruxtecan (Dato-DXd)

Adverse Events of Special Interest

AESI, n (%)	Dato-DXd N=297	Docetaxel N=290
Stomatitis/oral mucositis^a		
All grades	160 (54)	59 (20)
Grade ≥3	19 (6)	4 (1)
Ocular events^b		
All grades	57 (19)	27 (9)
Grade ≥3	5 (2) ^c	0
Adjudicated drug-related ILD^d		
All grades	25 (8)	12 (4)
Grade ≥3	10 (3)	4 (1)
Grade 5	7 (2)	1 (0.3)

- Stomatitis/oral mucositis associated with Dato-DXd resulted in a low rate of discontinuation (0.7%)
- Dry eye was the most common ocular event seen with Dato-DXd (6.1%; primarily grade ≤2), followed by increased lacrimation (5.4%)
- Seven adjudicated drug-related grade 5 ILD events
 - Primary cause of death in 4 out of 7 was attributed to disease progression by investigator
 - Non-squamous: 4 of 232 patients (1.7%); Squamous: 3 of 65 patients (4.6%)^e
- IRRs were observed in 8% of patients in each arm, all were grade ≤2 with the exception of 1 grade 3 event with Dato-DXd

TROPION-Lung05 (Dato-DXd – actionable genomic alterations)

Screening

Key inclusion criteria

- Stage IIIB, IIIC, or IV NSCLC
- Presence of ≥1 actionable genomic alteration (*EGFR*, *ALK*, *ROS1*, *NTRK*, *BRAF*, *MET* exon 14 skipping, or *RET*)
- ECOG PS of 0 or 1
- ≥1 line of targeted therapy
- 1 or 2 prior cytotoxic agent-containing therapies including platinum-based therapy in the metastatic setting
- Radiographic disease progression after targeted therapy

Treatment

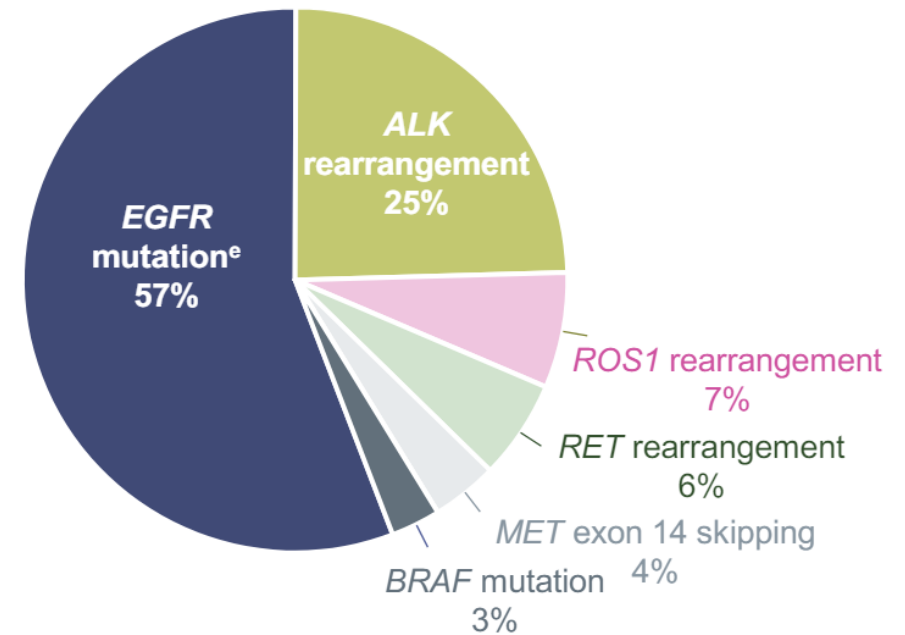
Dato-DXd
6 mg/kg
Q3W

Endpoints^a

Primary: ORR by BICR
Secondary:

- By BICR and investigator: DOR, DCR, CBR, PFS, TTR
- By investigator: ORR
- OS, safety, PK, immunogenicity

Relative Frequency of Genomic Alterations^{b-d}



Disposition

At the time of data cutoff (December 14, 2022):

- Median (range) treatment duration was 4 (1-21) months
- 60 participants (44%) were ongoing in study
- 20 participants (15%) were ongoing on study treatment

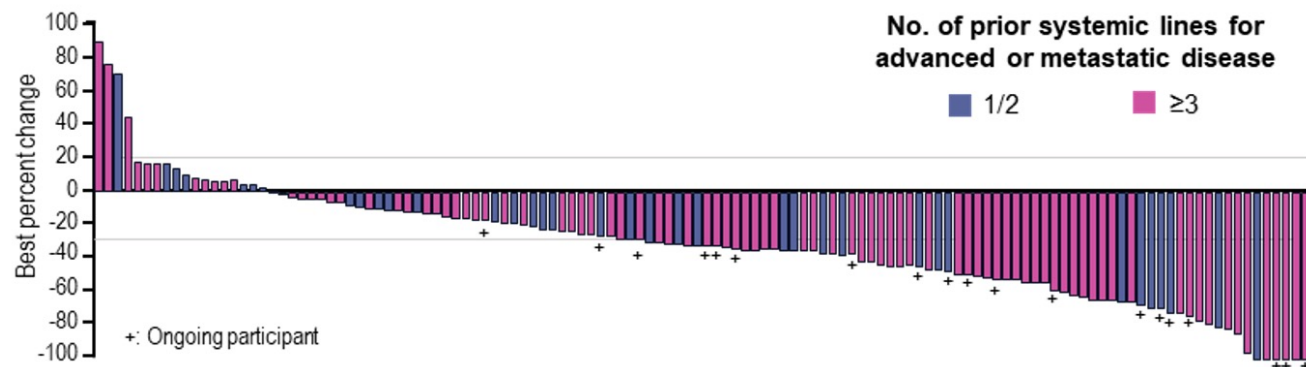
TROPION-Lung05 (Dato-DXd – actionable genomic alterations)

Response per BICR	All treated patients (N=137)	Patients with <i>EGFR</i> mutations (N=78)	Patients with <i>ALK</i> rearrangement (N=34)
ORR confirmed, n (%) [95% CI] ^a	49 (35.8) [27.8-44.4]	34 (43.6) [32.4-55.3]	8 (23.5) [10.7-41.2]
Median DOR (95% CI), months	7.0 (4.2-9.8)	7.0 (4.2-10.2)	7.0 (2.8-8.4)
DCR confirmed, n (%) [95% CI] ^a	108 (78.8) [71.0-85.3]	64 (82.1) [71.7-89.8]	25 (73.5) [55.6-87.1]
Median PFS, (95% CI), months^b	5.4 (4.7-7.0)	5.8 (5.4-8.3)	4.3 (2.6-6.9)

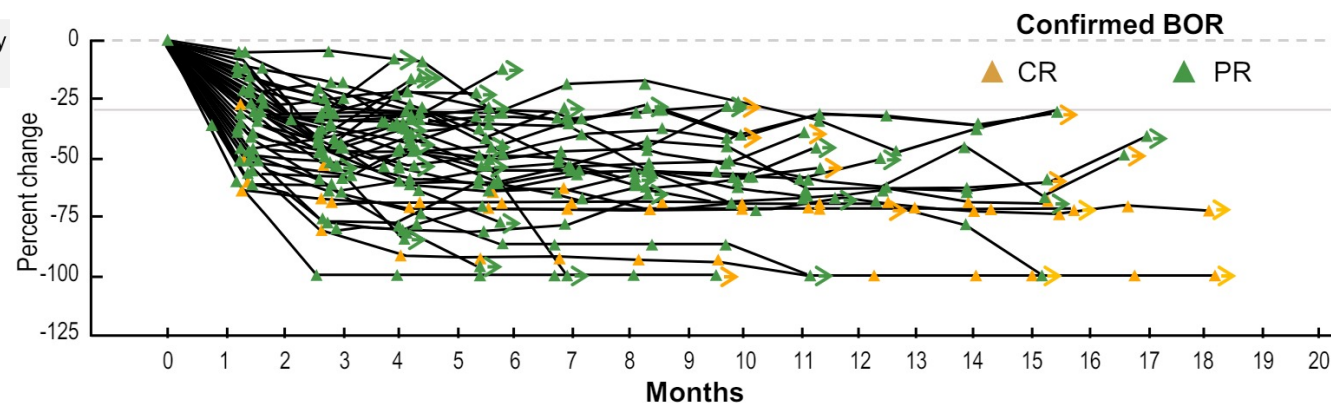
BOR: In the overall population (N=137), 4 patients (3%) achieved a CR and 45 (33%) achieved a PR

EGFR subset: Among patients with sensitizing or T790M mutations (N=68), the ORR was 49.1% in those previously treated with osimertinib

Best Percentage Change From Baseline in Sum of Diameters in Target Lesions



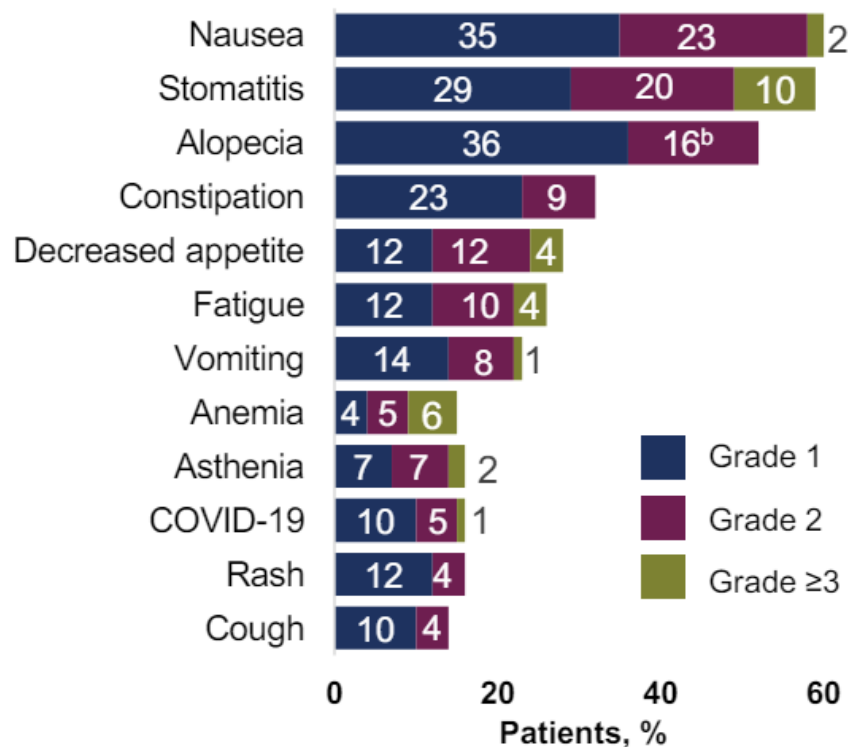
Percent Change From Baseline in Sum of Diameters of Target Lesions in Patients With Confirmed CR/PR^c



TROPION-Lung05 (Dato-DXd – actionable genomic alterations)

Safety Summary

TEAEs Occurring in ≥15% of Patients; All Grades (N=137)^a

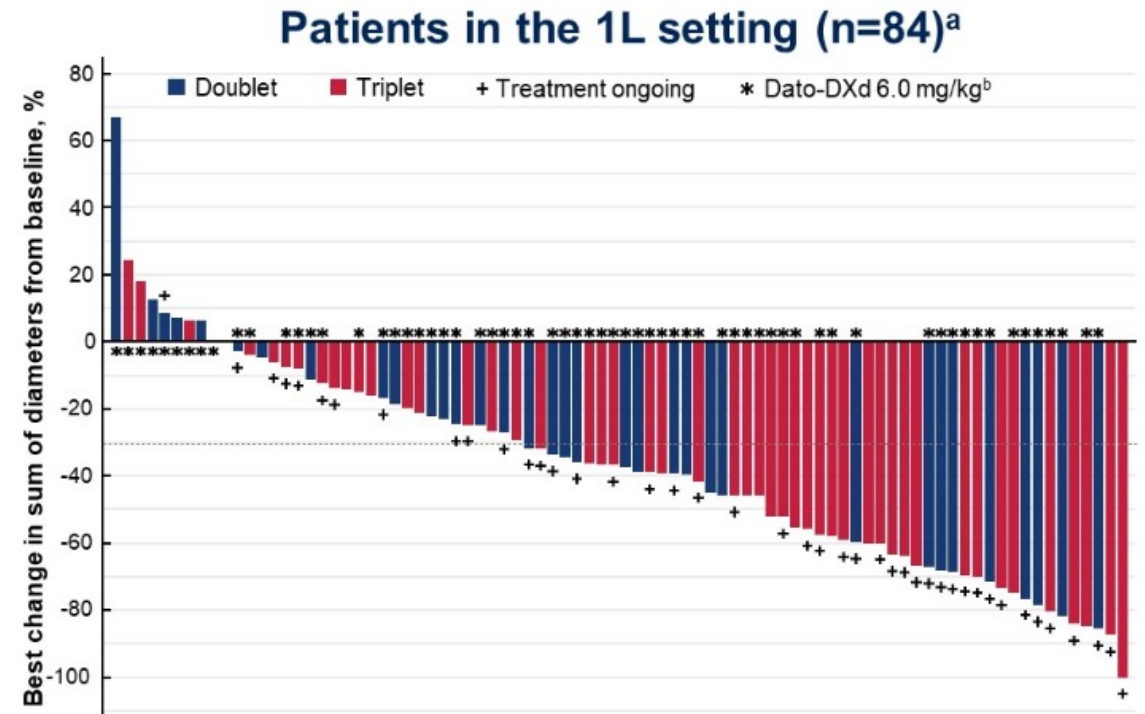
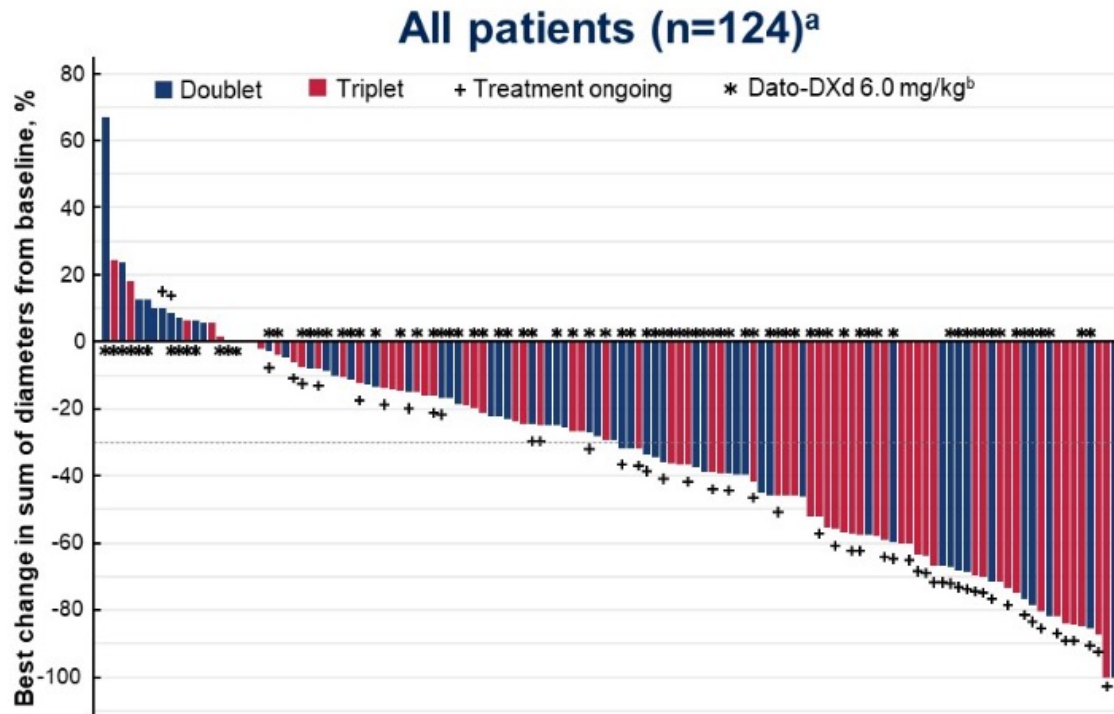


- 137 patients (100%) experienced TEAEs (grade ≥3, 47%)
 - 129 (94%) experienced **treatment-related TEAEs** (grade ≥3, 29%)
 - 34 (25%) experienced **serious AEs** (grade ≥3, 5%)
- 30 (22%), 13 (10%), and 2 (2%) patients experienced TEAEs associated with **dose reduction**, **dose withdrawal**, and **death**,^c respectively

AESI Incidence by Grade^d

n (%)	Total	Grade 1	Grade 2	Grade ≥3
Oral mucositis/stomatitis	90 (66)	45 (33)	30 (22)	15 (11)
Ocular surface toxicity^e	36 (26)	26 (19)	7 (5)	3 (2) ^f
IRR	22 (16)	15 (11)	7 (5)	0
Adjudicated drug-related ILD	5 (4)	1 (1)	3 (2)	1 (1) ^g

TROPION-Lung02: Dato-DXd + Pembro

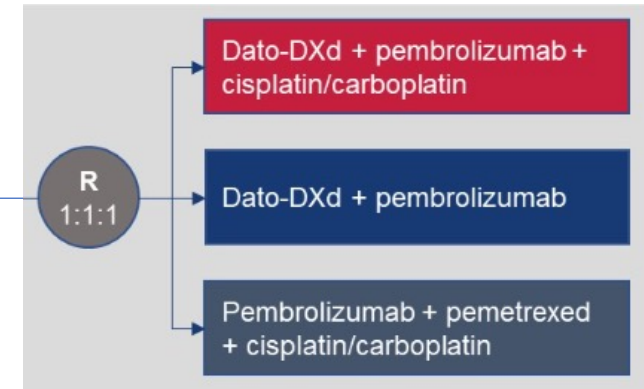


Multiple TROP2 Trials Underway

- **Dato-DXd**

- **First-Line:**

- TROPION-Lung04: Dato-DXd in combo with durva +/- carboplatin in NSCLC
- TROPION-Lung07: Dato-DXd in 1st line non-squam NSCLC, PD-L1 <50%
- TROPION-Lung08: Dato-DXd in 1st line non-squam NSCLC, Pembro +/- Dato-DXd



- **Sacituzumab Govitecan**

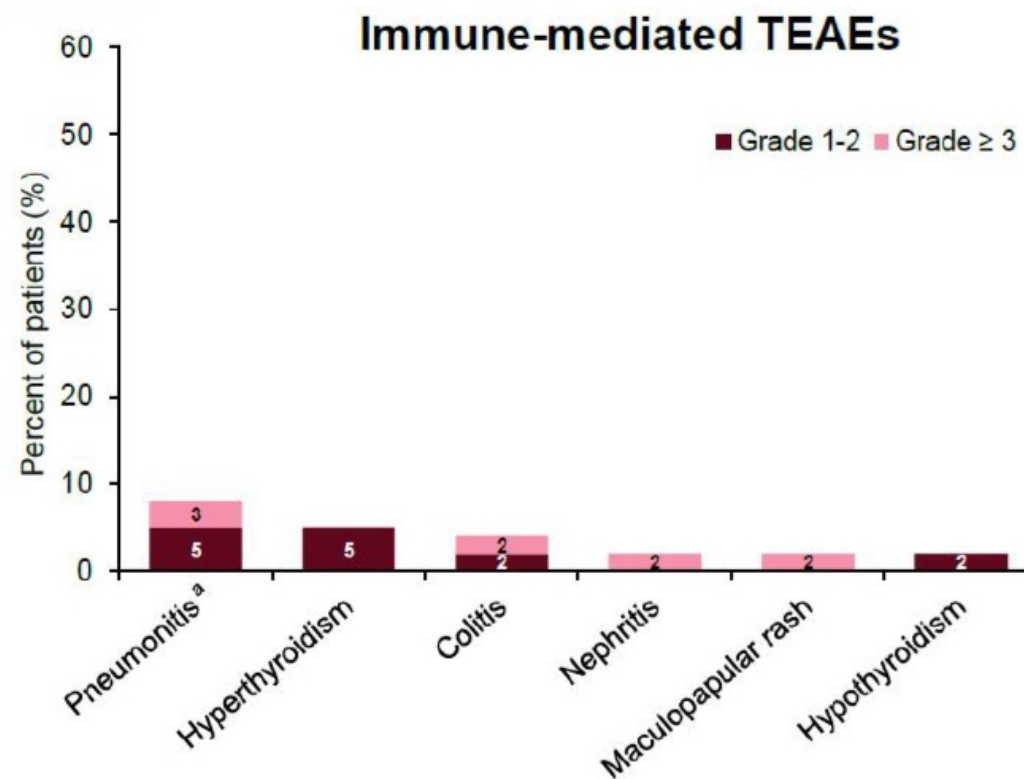
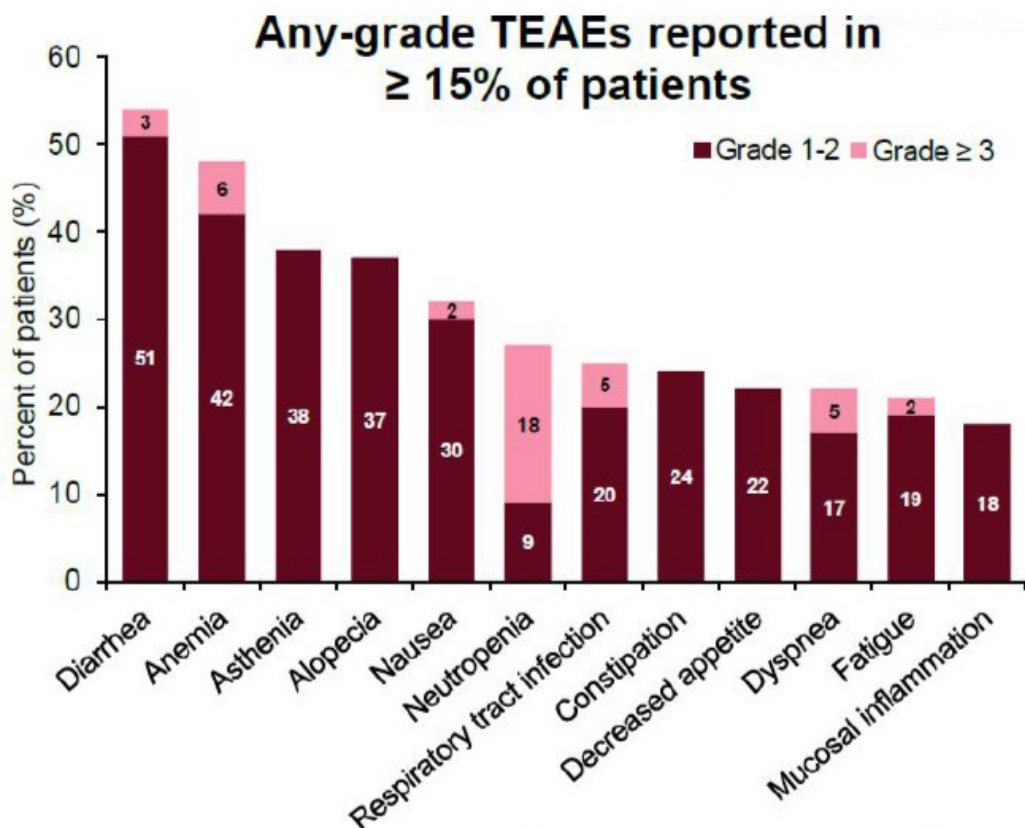
- **First-Line:**

- EVOKE-03: Pembro +/- Sacituzumab Govitecan in NSCLC, PD-L1 \geq 50%

Sacituzumab Govitecan – EVOKE-01

- **Per press release:** “Did not meet its primary endpoint of overall survival... vs docetaxel in patients with metastatic or advanced NSCLC that had progressed on or after platinum-based chemotherapy and checkpoint inhibitor.”
- “A numerical improvement in OS favoring SG was observed in this study including in patients with both squamous and non-squamous histology.”

EVOKE-02



- The most common any-grade TEAEs were diarrhea (54%), anemia (48%), and asthenia (38%)

- Immune-mediated TEAEs were consistent with the known safety profile of Pembro

All patients who received ≥ 1 dose of study treatment were included in the safety analysis. ^aGrade 3 pneumonitis was the highest grade observed to date (n = 2). Pembro, pembrolizumab; TEAE, treatment-emergent adverse event.

Still a lot to discover...

Datopotamab Deruxtecan (DS-1062)

- Trop2 antibody
- Cleavable linker
- Topoisomerase I inhibitor payload
- **DAR: 4:1**

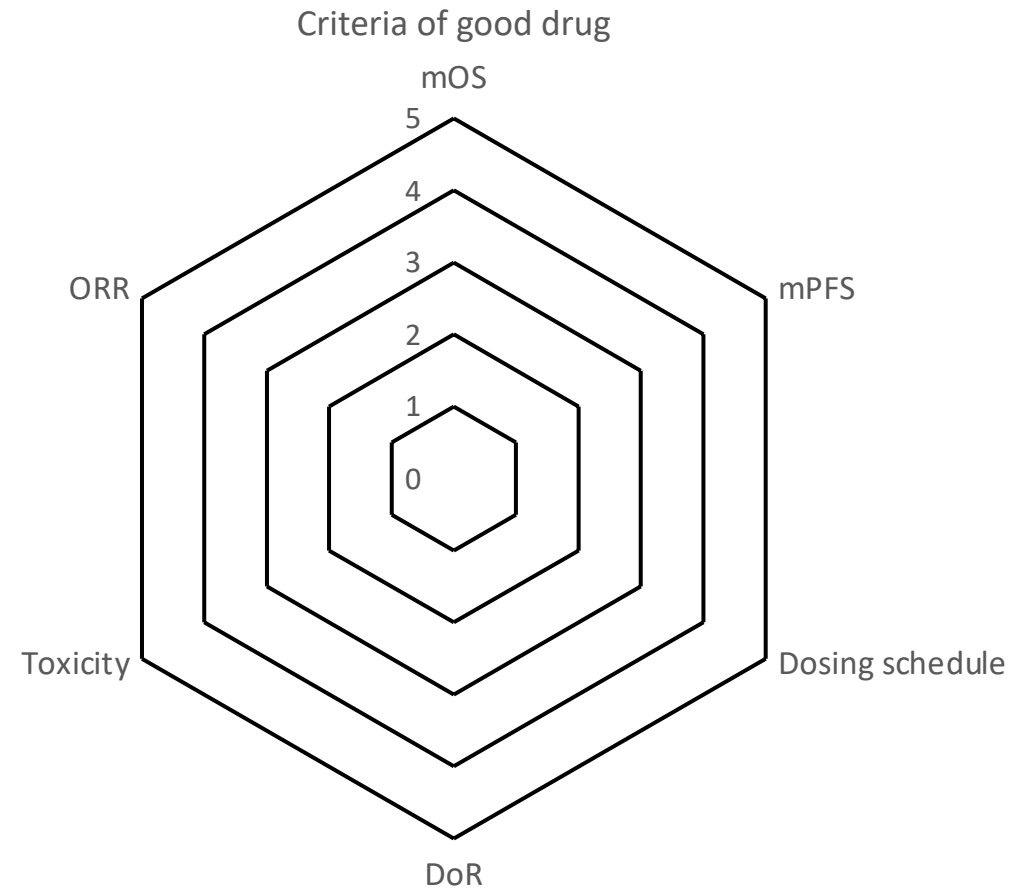
- mPFS difference non-squam and squam
- OS pending
- Tox: eye surface, stomatitis, ILD

Sacituzumab govitecan

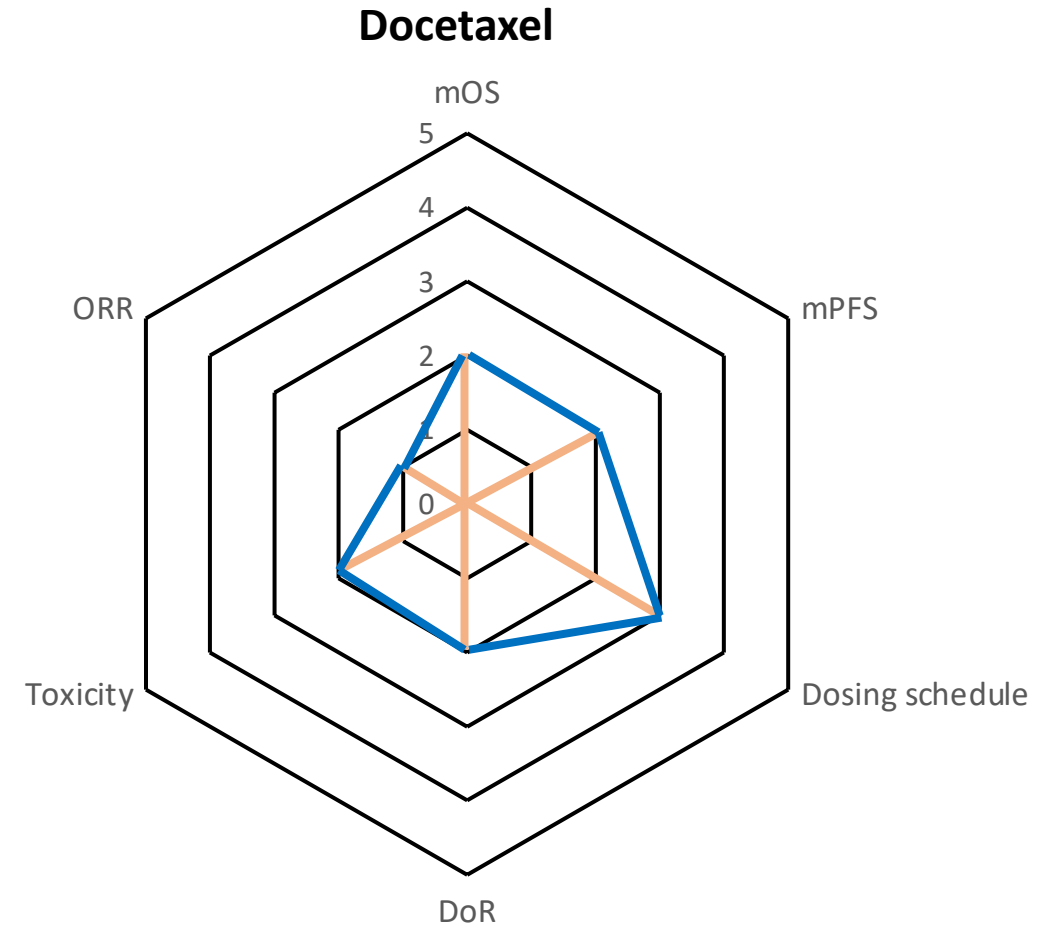
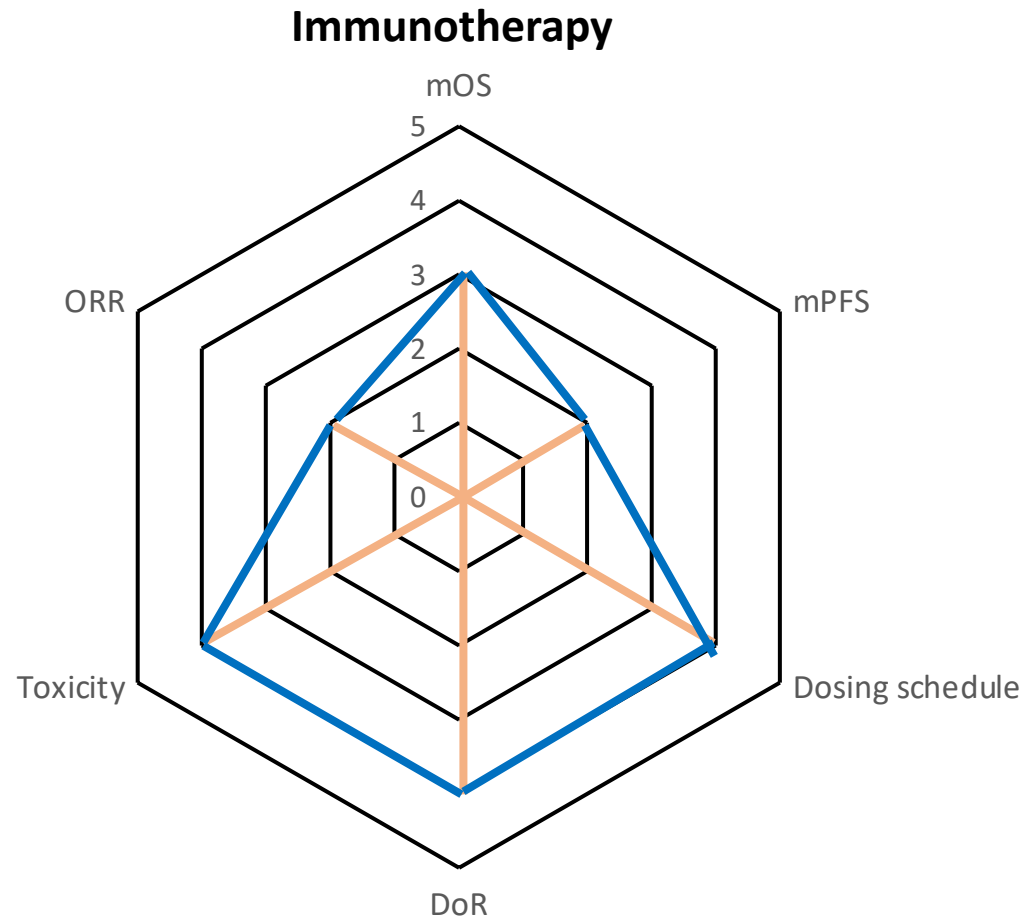
- Trop2 antibody
- Cleavable linker
- Topoisomerase I inhibitor payload
- **DAR: 8:1**

- mPFS reported similarity non-squam and squam (data pending)
- OS negative (data pending)
- Tox: nausea, diarrhea, cytopenias

Criteria of a “good drug”



Criteria of a “good drug”



The Road Ahead in TROP2



Photo credit: Steven Schild

Agenda

Module 1: Integration of Antibody-Drug Conjugates (ADCs) into the Care of Patients with Non-Small Cell Lung Cancer (NSCLC) and HER2 Alterations — Dr Paz-Ares

Module 2: Emerging Role of TROP2-Targeted ADCs for NSCLC — Dr Sands

Module 3: Other Promising Targets for ADCs for Lung Cancer — Dr Heist

Consulting Faculty Comments

Toxicity profile of patritumab deruxtecan; ADCs after progression on chemotherapy and EGFR tyrosine kinase inhibitors



Dr Neil Morganstein (Summit, New Jersey)



Dr Estelamari Rodriguez (Miami, Florida)

QUESTIONS FOR THE FACULTY

Would you like to have access to patritumab deruxtecan at the current time?

If this agent were available, where in the treatment sequence do you envision employing it for your patients with EGFR mutation-positive disease?

QUESTIONS FOR THE FACULTY

Should community-based oncologists be testing for c-Met overexpression in their patients with metastatic NSCLC?

If yes, what testing methodology should be used and how should the results be interpreted?

QUESTIONS FOR THE FACULTY

From a risk/benefit standpoint, how do you believe telisotuzumab vedotin (Teliso-V) compares to currently available therapies such as docetaxel?

Given what we currently know about Teliso-V, would you like to have access to this agent for your patients with progressive NSCLC?

QUESTIONS FOR THE FACULTY

What are the most common toxicities that have been noted with Teliso-V?

Which of these do you find most challenging to manage?

Which of these do you believe are most detrimental to patient quality of life?

QUESTIONS FOR THE FACULTY

What other novel ADCs in development do you believe are most promising for patients with lung cancer?

Other Promising Targets for ADCs in Lung Cancer

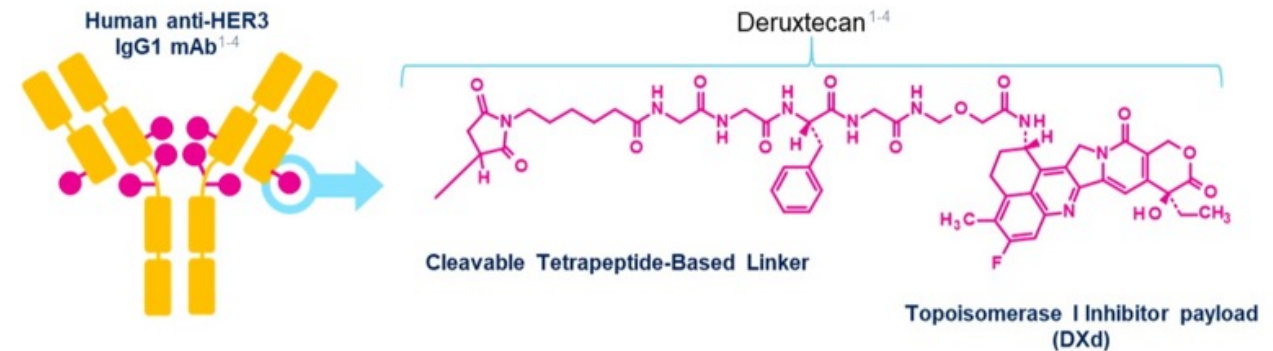
Rebecca S Heist, MD, MPH

HER3 in lung cancer

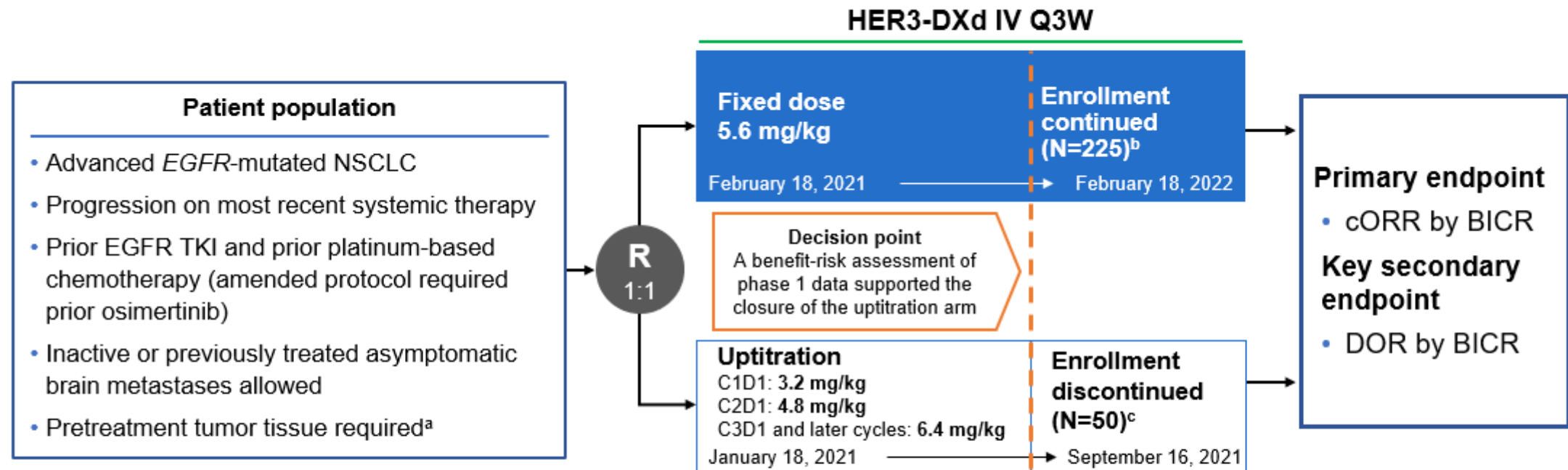
- Member of ERBB/HER family of receptor tyrosine kinases
- Forms heterodimers; has minimal intrinsic kinase activity
- Expressed in over 80% of NSCLCs
- HER3 overexpression is associated with metastatic progression and poor prognosis NSCLC
- HER3 overexpression implicated in resistance to multiple types of treatment, including EGFR

Patritumab deruxtecan (HER3-DXd)

- Antibody drug conjugate
- Fully human anti-HER3 IgG1 mAb (patritumab), covalently linked via a tetrapeptide based cleavable linker to deruxtecan, a topoisomerase 1 inhibitor payload



HERTHENA-Lung01 Study Schema



Primary data cutoff, 21 Nov 2022^d

Snapshot data cutoff, 18 May 2023 (additional 6 months follow-up)

Data are presented for the 5.6-mg/kg fixed-dose arm

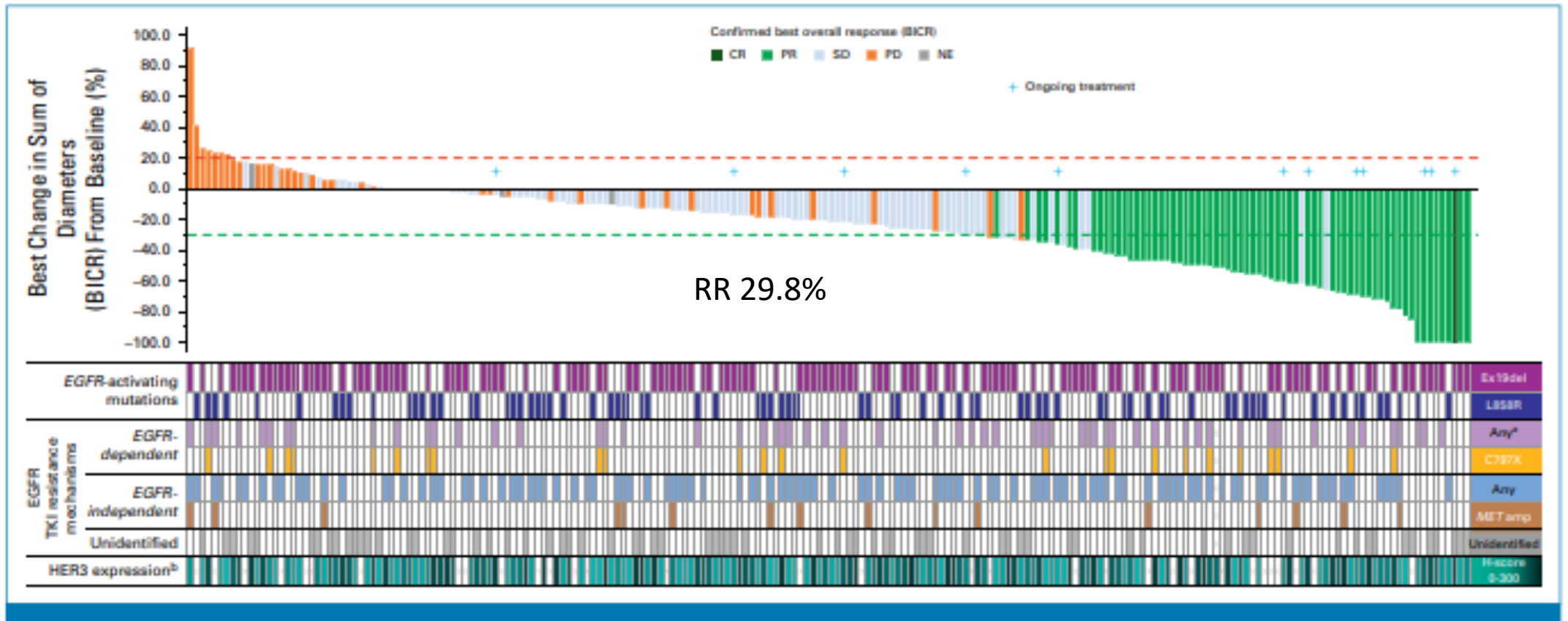
- Efficacy from snapshot data cutoff—median study follow-up, 18.9 (range, 14.9-27.5) months
- Safety from primary data cutoff—median treatment duration, 5.5 (range, 0.7-18.2) months

BICR, blinded independent central review; C, cycle; cORR, confirmed objective response rate (complete or partial response confirmed ≥ 4 weeks after initial response [RECIST version 1.1]); D, day; DOR, duration of response; HER, human epidermal growth factor receptor; IV, intravenous; Q3W, every 3 weeks; RECIST, Response Evaluation Criteria in Solid Tumors; TKI, tyrosine kinase inhibitor.

^a Inclusion not based on detection of HER3 expression. ^b 226 patients were enrolled; 225 received ≥ 1 dose. ^c 51 patients were enrolled; 50 received ≥ 1 dose. ^d Data cutoff for the primary analysis occurred when all enrolled patients had either ≥ 9 months of follow-up or had discontinued from the study earlier.

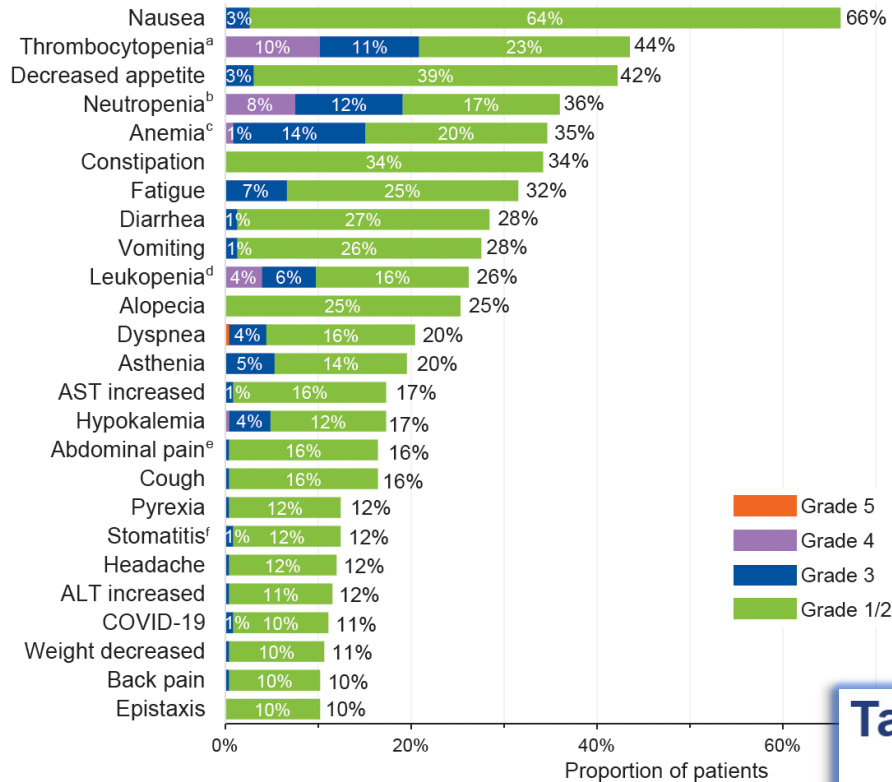
1. Yu HA, et al. *Future Oncol*. 2023;19:1319-1329.

HERTHENA-Lung01 Response



HERTHENA-Lung01 Updated Safety

Figure 3 Most Common TEAEs Occurring in ≥10% of Patients



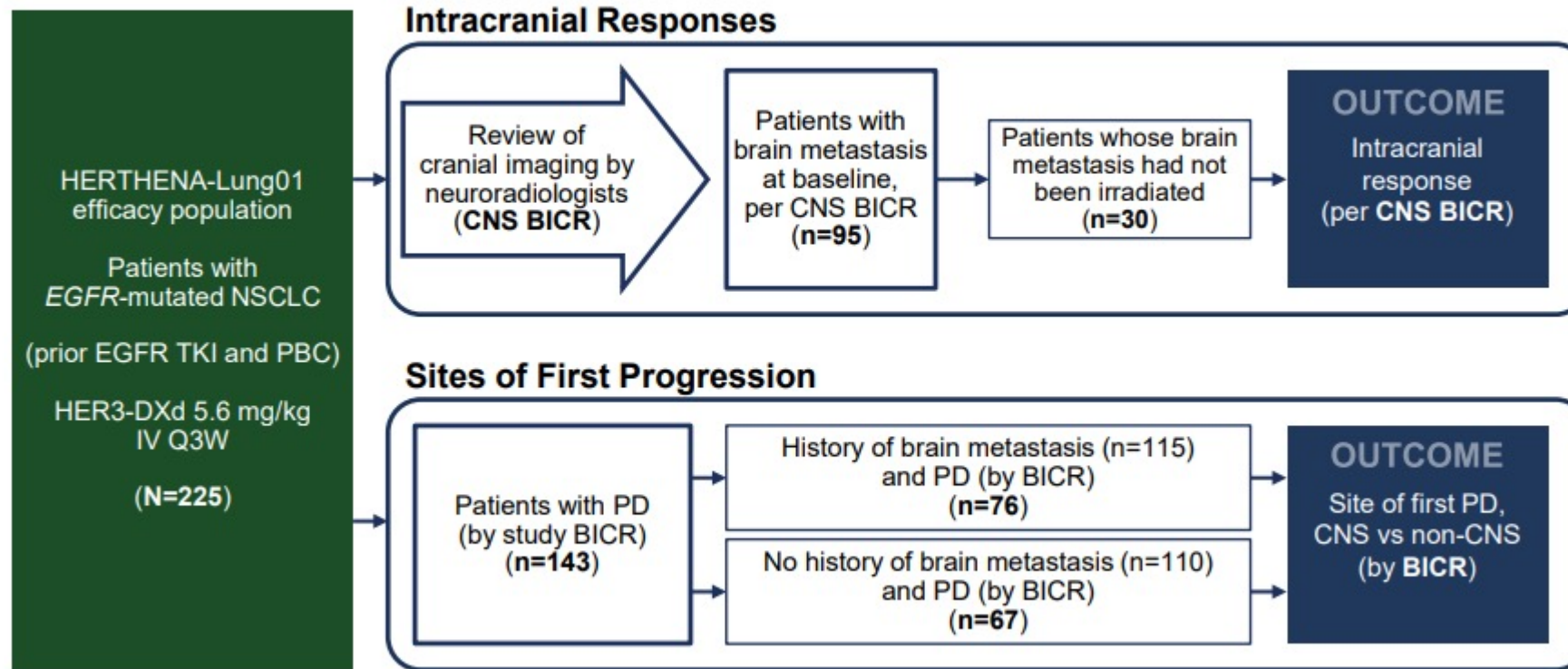
Safety summary		HER3-DXd 5.6 mg/kg (N=225)
Study drug exposure		
Treatment duration, median (range), months		5.5 (0.7-23.7)
Dose intensity, median (range), mg/kg/cycle		5.45 (3.2-6.0)
Relative dose intensity, median (range), %		97.4 (57.1-107.8)
TEAEs		
Any TEAE, n (%)		224 (99.6)
Associated with treatment discontinuation		19 (8.4)
Associated with treatment dose reduction		50 (22.2)
Associated with treatment dose interruption		93 (41.3)
Grade ≥3 TEAE, n (%)		147 (65.3)
Treatment-related TEAE, n (%)		215 (95.6)
Associated with death ^a		4 (1.8)
Grade ≥3		104 (46.2)
Serious TEAE		36 (16.0)

^a Pneumonitis, GI perforation, pneumonia, respiratory failure (n=1 each)

Table 3 ILD Adjudication for HER3-DXd 5.6 mg/kg (N=225)

Worst ILD grade per investigator	Patients with suspected ILD	Adjudicated not ILD	Grade after adjudication (all adjudicated ILD were treatment related)					Total ILD
			Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	
Any grade, n	22							
Grade 1	8	2	1	4	0	0	1	6
Grade 2	3	0	0	2	1	0	0	3
Grade 3	5	1	0	2	2	0	0	4
Grade 4	3	2	0	0	1	0	0	1
Grade 5	3	3	0	0	0	0	0	0
Total adjudicated ILD, n (%)			1 (0.4)	8 (3.6)	4 (1.8)	0	1 (0.4)	14 (6.2)

Additional analyses of CNS activity of patritumab deruxtecan



BICR, blinded independent central review; CNS, central nervous system; IV, intravenous; NSCLC, non-small cell lung cancer; PBC, platinum-based chemotherapy; PD, progressive disease; RT, radiotherapy; Q3W, every 3 weeks; TKI, tyrosine kinase inhibitor.

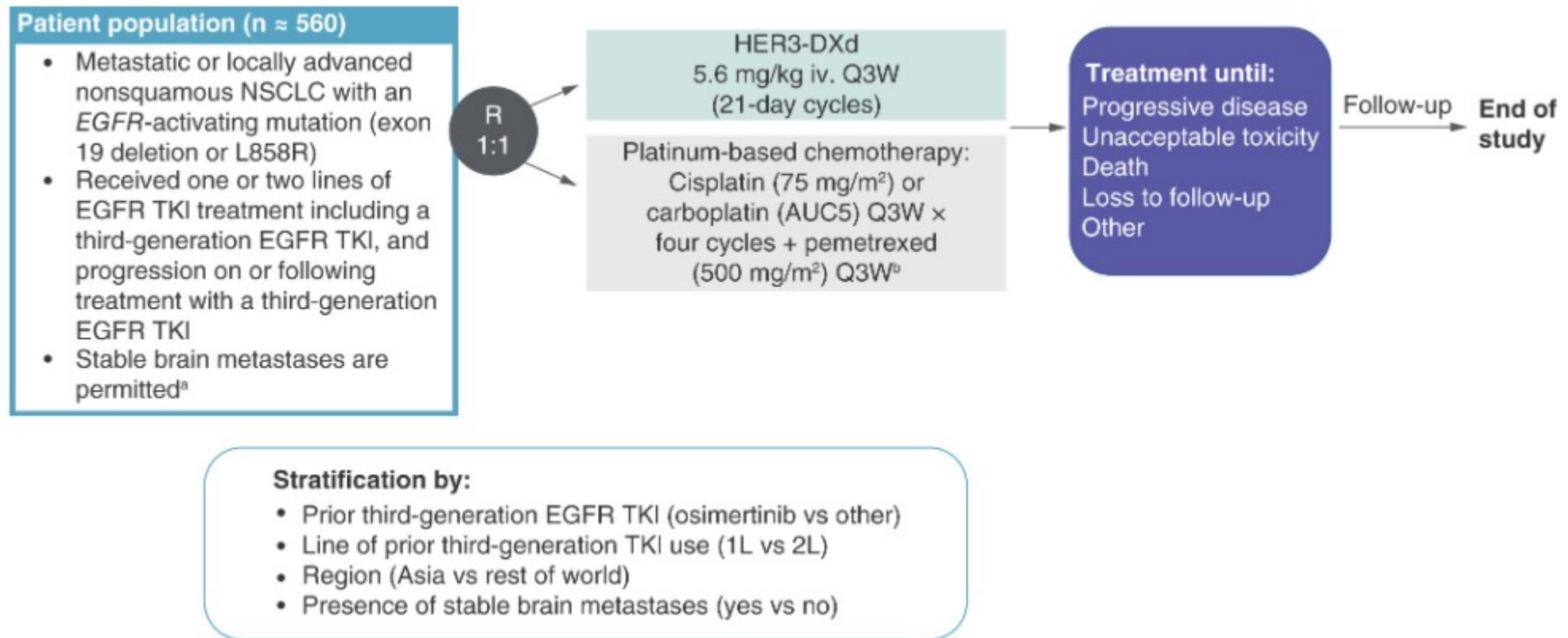
CNS activity of patritumab deruxtecan

Responses by CNS BICR ^a	All patients with baseline BM by CNS BICR (n=95)	Patients whose baseline BM had not been irradiated (n=30) ^b
CNS cORR, n (%) [95% CI]	19 (20.0) [12.5, 29.5]	10 (33.3) [17.3-52.8]
CR, n (%)	15 (15.8)	9 (30.0) ^c
PR, n (%)	4 (4.2)	1 (3.3)
SD/non-CR/non-PD, n (%)	57 (60.0)	13 (43.3)
PD, n (%)	13 (13.7)	4 (13.3)
NE, n (%)	6 (6.3)	3 (10.0)
CNS DCR (95% CI), %	80.0 (70.5, 87.5)	76.7 (57.7-90.1)
CNS DOR, median (95% CI), mo	9.2 (8.1-11.1)	8.4 (5.8-9.2)

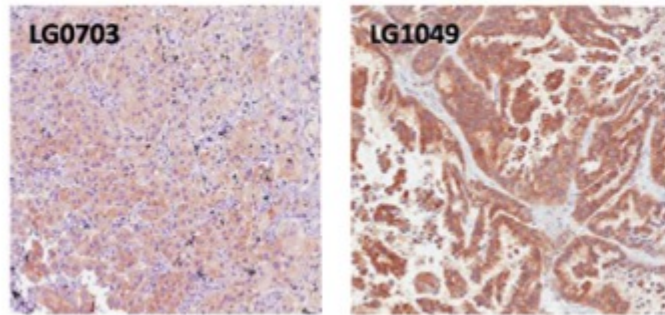
Snapshot data cutoff, 18 May 2023.
Median study follow-up, 18.9 (range, 14.9-27.5) months.

Phase III HERTHENA-Lung02 Study Design

NCT05338970

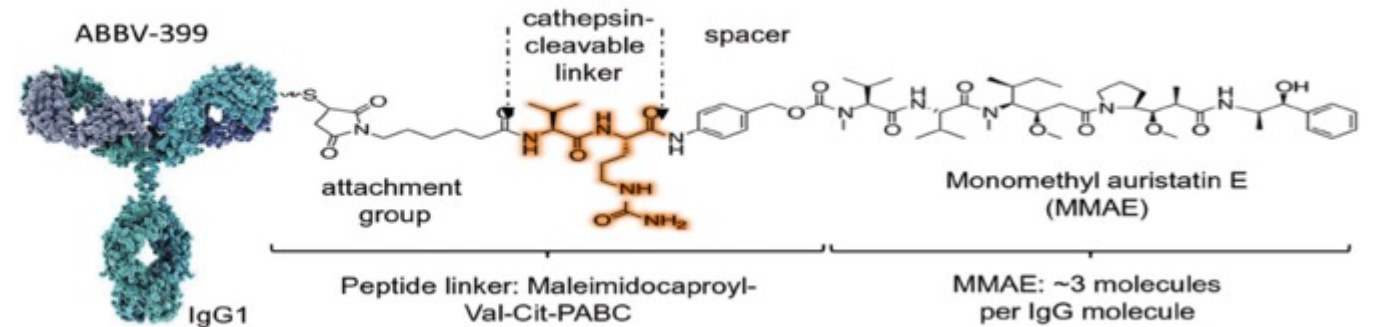


c-MET overexpression



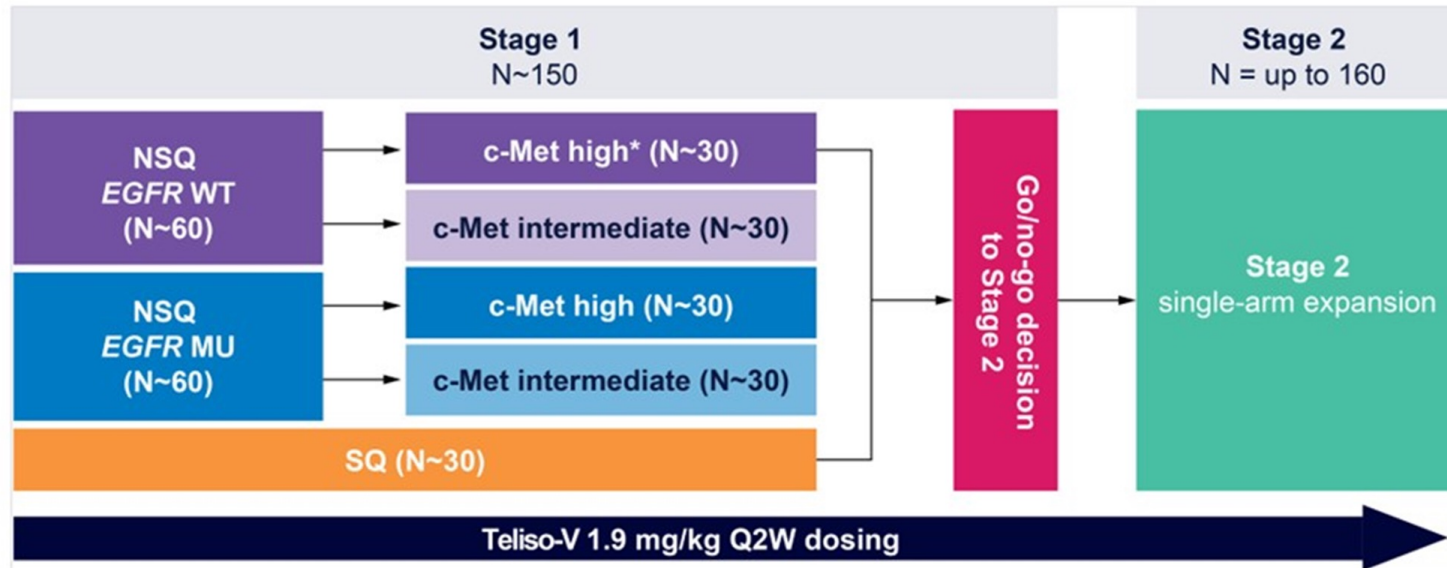
Telisotuzumab vedotin (ABBV-399)

Antibody-drug conjugate composed of a c-Met-targeting antibody (telisotuzumab), a cleavable valine-citrulline (dipeptide) linker, and a microtubule polymerization inhibitor (cytotoxin monomethyl auristatin E [MMAE])



Phase II LUMINOSITY Study Design

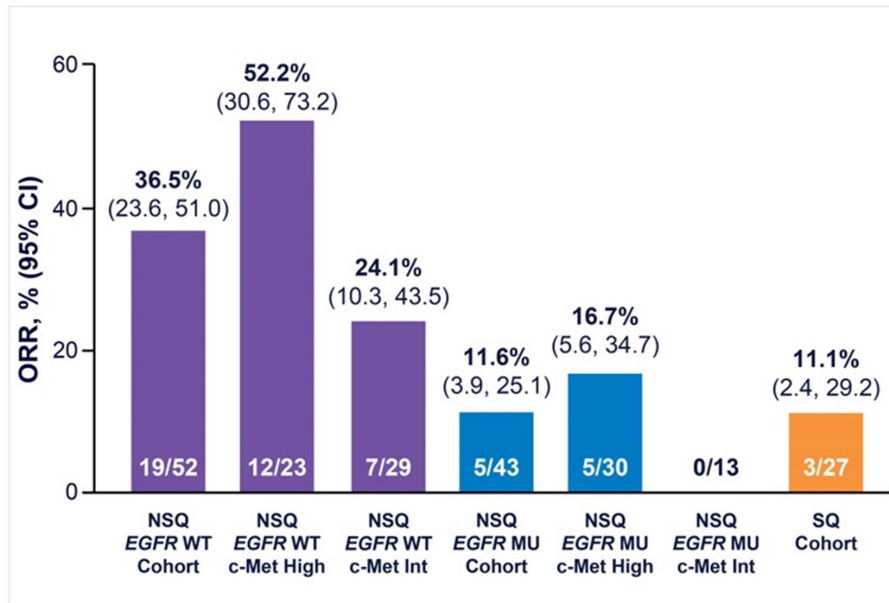
LUMINOSITY (Study M14-239) Design



*c-Met overexpression was defined for the NSQ cohort as $\geq 25\%$ tumor cells at 3+ intensity (high, $\geq 50\%$ 3+; intermediate, 25 to $< 50\%$ 3+), and for the SQ cohort as $\geq 75\%$ of tumor cells at 1+ intensity. *EGFR*, epidermal growth factor receptor; MU, mutant; NSQ, non-squamous; Q2W, every 2 weeks; Teliso-V, telisotuzumab vedotin; WT, wild-type.

Phase II LUMINOSITY: Response rates by cohort

ORR per Central Review by Cohort/Group



CI, confidence interval; EGFR, epidermal growth factor receptor; Int, intermediate; MU, mutant; NSQ, non-squamous; ORR, overall response rate; SQ, squamous; WT, wild-type.

- The NSQ EGFR WT NSCLC cohort met protocol-specified criteria for expansion in Stage 2 at interim analysis 3. Updated data at the time of interim analysis 4 are shown
- The NSQ EGFR MU NSCLC cohort met protocol-specified criteria for futility at interim analysis 4. The SQ cohort met criteria for futility at the previous interim analysis; final data shown

Press release Nov 2023:

	RR	DOR	mOS
c-MET high	35%	9 mo	14.6 mo
c-MET intermediate	23%	7.2 mo	14.2 mo

2024 ASCO Annual Meeting [Add to Agenda](#)

Clinical Science Symposium

Next-Generation Antibody-Drug Conjugates: The Revolution Continues

Primary Track: Special Sessions

June 2 – 9:45 AM CDT | Hall D1 | Live Stream

Telisotuzumab vedotin monotherapy in patients with previously treated c-Met-overexpressing non-squamous EGFR wildtype advanced NSCLC: Primary analysis of the LUMINOSITY trial.

10:01 AM CDT | David Ross Camidge, MD, PhD | Abstract 103

Phase II LUMINOSITY: AEs

Summary of Treatment-Emergent Adverse Events

TEAEs, n (%)	Total N=136	
	Any Grade	Grade ≥3
Any TEAE	131 (96)	65 (48)
Most common any-grade TEAEs (≥10%)		
<i>Peripheral sensory neuropathy</i>	34 (25)	6 (4)
<i>Nausea</i>	30 (22)	1 (1)
<i>Hypoalbuminemia</i>	28 (21)	1 (1)
<i>Peripheral edema</i>	25 (18)	0
<i>Blurred vision</i>	25 (18)	1 (1)
<i>Decreased appetite</i>	24 (18)	0
<i>Fatigue</i>	22 (16)	5 (4)
<i>Anemia</i>	19 (14)	3 (2)
<i>Dyspnea</i>	19 (14)	4 (3)
<i>Asthenia</i>	18 (13)	3 (2)
<i>Increased gamma-glutamyl transferase</i>	18 (13)	3 (2)
<i>Keratitis</i>	18 (13)	0
<i>Constipation</i>	16 (12)	1 (1)
<i>Cough</i>	14 (10)	0
<i>Diarrhea</i>	14 (10)	0
<i>Dizziness</i>	14 (10)	0
<i>Malignant neoplasm progression</i>	14 (10)	11 (8)
<i>Vomiting</i>	14 (10)	1 (1)

Any TEAE related to Teliso-V*	104 (76)
Any serious TEAE	41 (30)
Any TEAE leading to Teliso-V discontinuation	45 (33)
Any TEAE leading to Teliso-V discontinuation possibly related to Teliso-V*	18 (13)
Any TEAE leading to death possibly related to Teliso-V*	2 (1)

*Per investigator assessment.
TEAEs, treatment-emergent adverse events; Teliso-V, telisotuzumab vedotin.

- Treatment-emergent adverse events leading to death assessed by investigator as possibly related to Teliso-V were sudden death and pneumonitis, in 1 patient each. Both were in the squamous cohort
- Any-grade pneumonitis was reported in 9 patients (6.6%) and grade ≥3 pneumonitis was reported in 3 patients (2.2%)

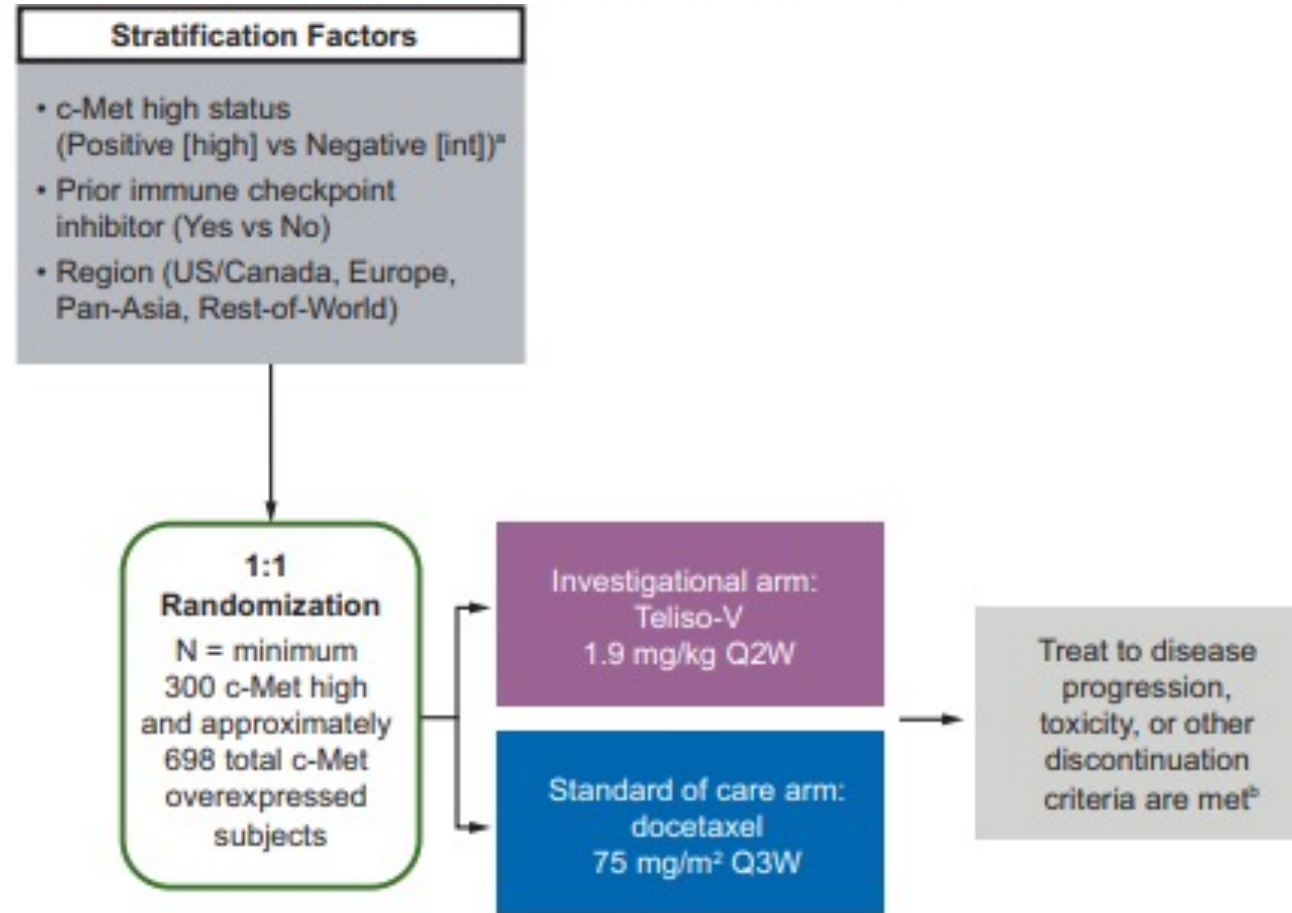
*Per investigator assessment. TEAEs, treatment-emergent adverse events; Teliso-V, telisotuzumab vedotin.

Phase III TeliMET NSCLC-01 Study Design

NCT04928846

c-MET
overexpressing
NSCLC ($\geq 25\%$ tumor
cells at 3+ intensity
by central testing)

EGFR WT
NonSquamous



Primary Endpoints:
PFS, OS

Secondary
Endpoints: RR, DOR,
PROs, PFS by inv

Safety, tolerability,
PK, PD

B7-H3 in Small Cell

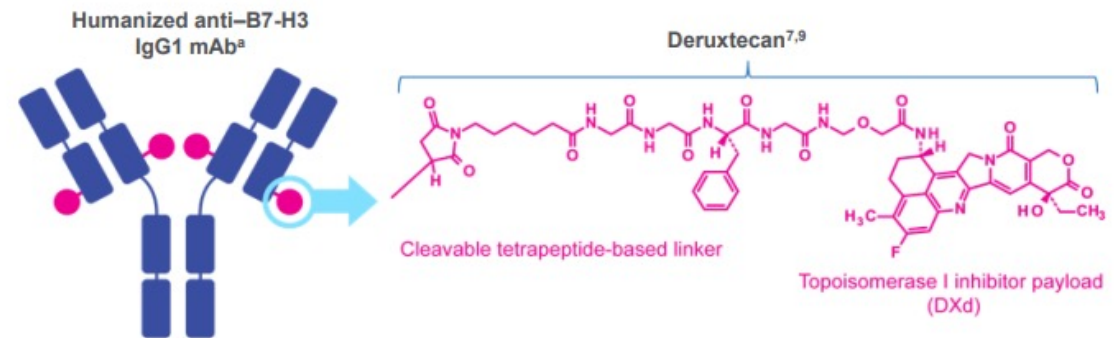
B7-H3 overexpressed in broad range of cancer types

Immunomodulatory role

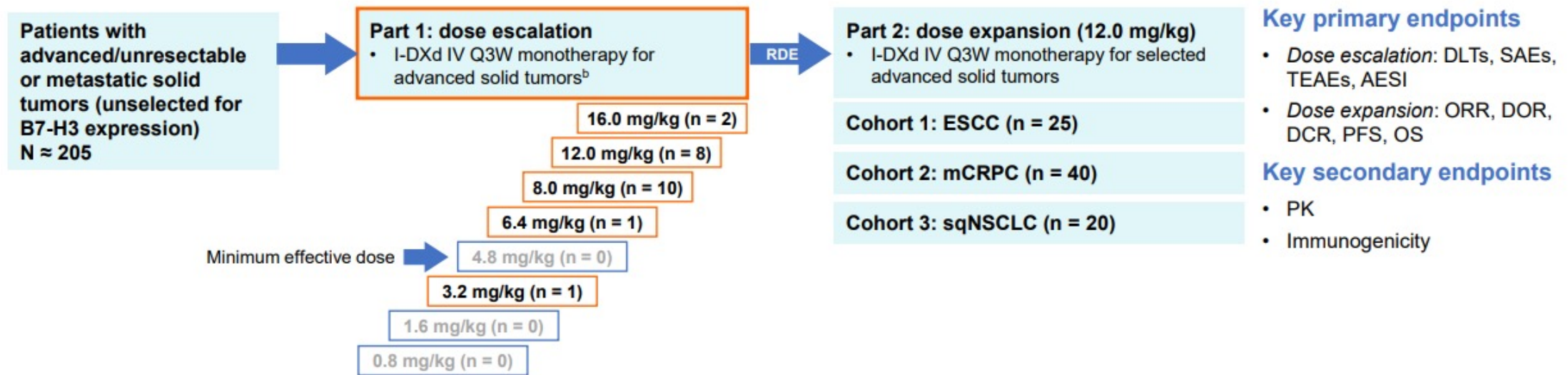
Associated with cancer progression and poor survival

Ifinatamab deruxtecan (I-DXd, DS-7300)

Antibody-drug conjugate composed of anti-B7-H3 IgG1 monoclonal antibody, linked via a tetrapeptide based cleavable linker to topoisomerase inhibitor payload deruxtecan
DAR ~4

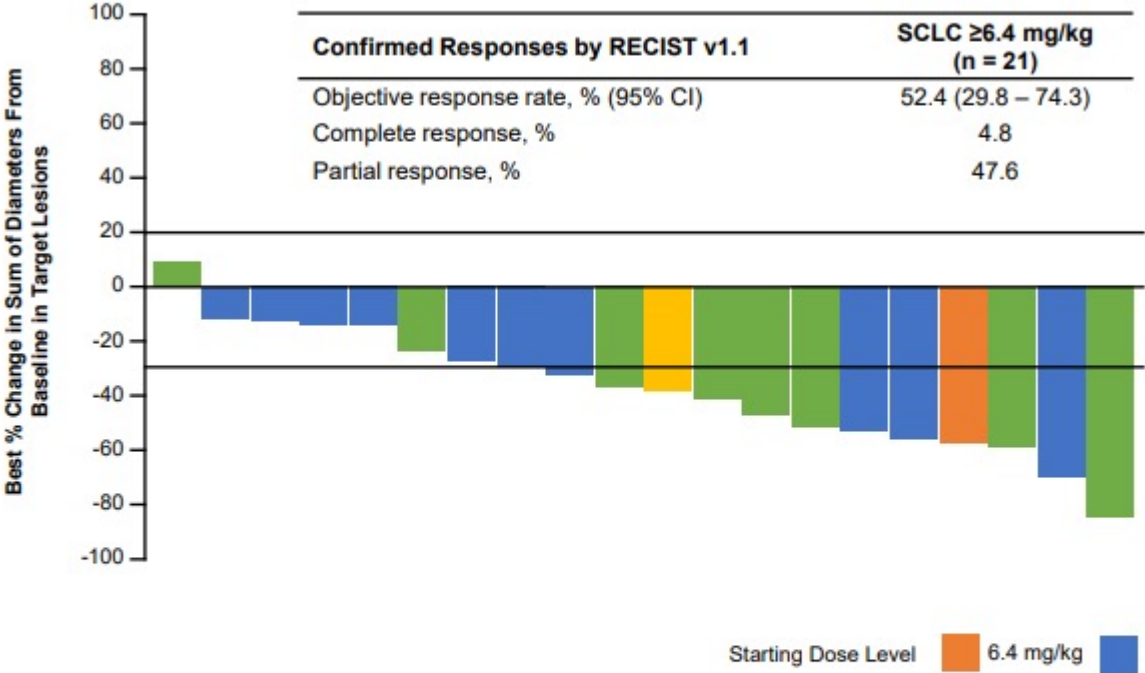


DS7300-A-J101 Study Design NCT04145622

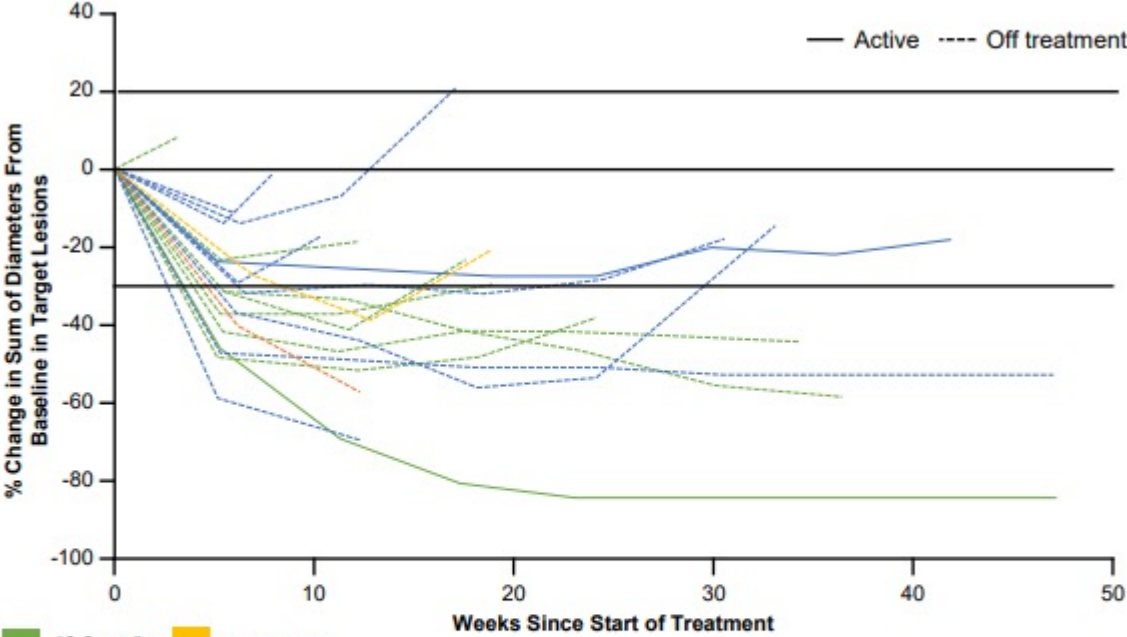


Subgroup analysis of patients with Small Cell Lung Cancer (n = 22) from Part 1 dose escalation
Patients dosed at ≥ 6.4 mg/kg (n = 21) evaluable for efficacy

DS7300-A-J101 Small Cell Response Rate



- Nearly all patients with post-baseline scans had a reduction in target lesions
- Median time to response was 1.2 months (95% CI, 1.2 – 1.4)



- Median duration of response was 5.9 months (95% CI, 2.8 – 7.5); two patients remain on treatment
- Median follow-up was 11.7 months (95% CI, 4.63 – 12.88)

DS7300-A-J101 Small Cell AEs

System Organ Class Preferred Term, n (%)	SCLC (N = 22)	
	Any Grade	Grade ≥3
Nausea	13 (59.1)	1 (4.5)
Fatigue	11 (50.0)	0 (0.0)
Anemia	6 (27.3)	1 (4.5)
Vomiting	6 (27.3)	0 (0.0)
Decreased appetite	5 (22.7)	1 (4.5)
Pyrexia	4 (18.2)	0 (0.0)
Constipation	4 (18.2)	1 (4.5)
IRR	3 (13.6)	0 (0.0)
Diarrhea	3 (13.6)	0 (0.0)
Dehydration	3 (13.6)	0 (0.0)
Dyspnea	3 (13.6)	0 (0.0)
Platelet count decreased	3 (13.6)	0 (0.0)
Arthralgia	3 (13.6)	0 (0.0)
Hyponatremia	3 (13.6)	0 (0.0)

TEAEs

≥ Grade 3: 36.4%

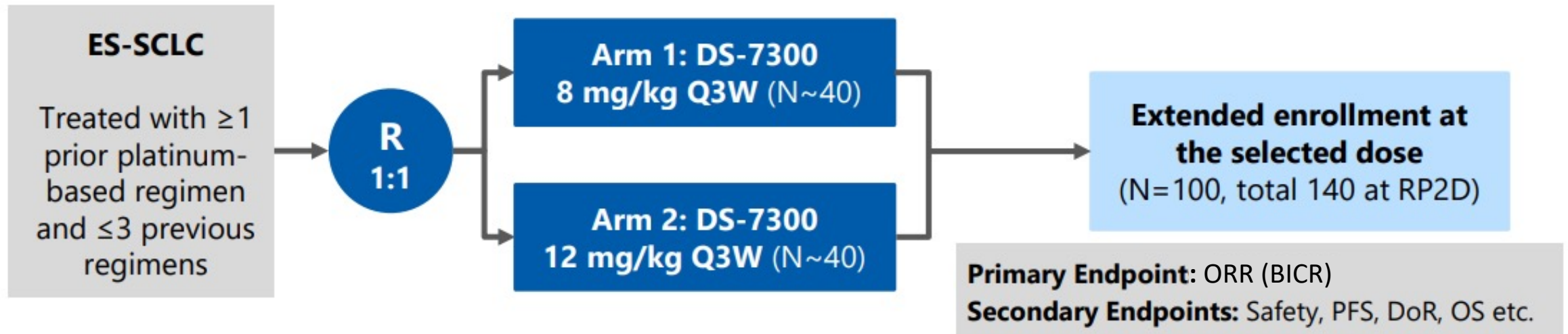
Dose discontinuation: 22.7%

Dose reduction: 13.6%

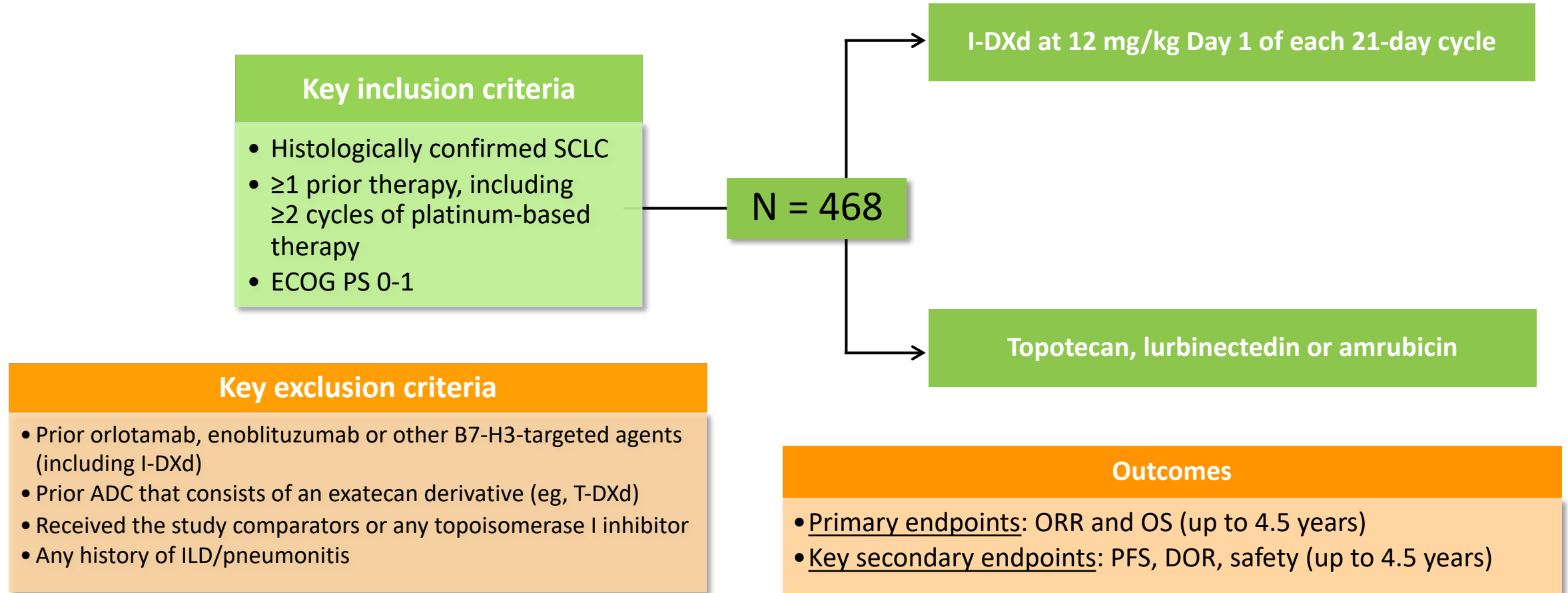
Dose delay: 13.6%

- A total of three patients (13.6%) experienced an ILD or pneumonitis event (two Gr 1, one Gr 2)
 - All events were adjudicated by the ILD adjudication committee, of which one was adjudicated as drug-related ILD (Gr 2, 8.0 mg/kg) and discontinued treatment per protocol^a
- Prophylactic premedication for nausea, vomiting, and IRR were not permitted for primary prophylaxis during cycle 1 of dose escalation

Phase II IDeate-01 Study Design NCT05280470



IDeate-Lung02: A Phase III Study of Ifinatamab Deruxtecan versus Treatment of Physician's Choice for Relapsed SCLC



ADC = antibody-drug conjugate; ILD = interstitial lung disease; ORR = overall response rate

What Clinicians Want to Know: Addressing Current Questions and Controversies in the Management of Prostate Cancer

A CME Symposium Held in Conjunction with the 2024 ASCO® Annual Meeting

Saturday, June 1, 2024

7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)

Faculty

Neeraj Agarwal, MD, FASCO

Tanya B Dorff, MD

Emmanuel S Antonarakis, MD

Matthew R Smith, MD, PhD

Moderator

Andrew J Armstrong, MD, ScM

**Thank you for joining us!
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Please complete the survey currently up on the iPads for attendees in the room and on Zoom for those attending virtually. The survey will remain open up to 5 minutes after the meeting ends.

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