# IDeate-Lung01: A Phase 2 trial of ifinatamab deruxtecan (I-DXd) in extensive-stage small cell lung cancer

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# **Declaration of interests**

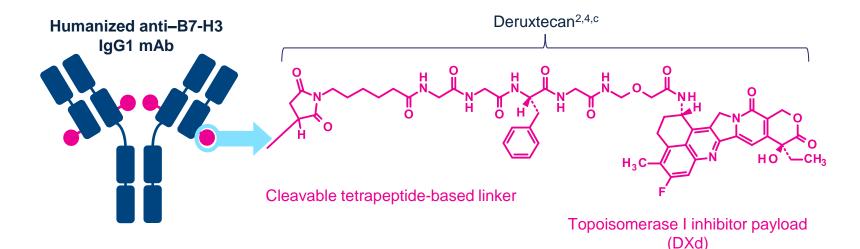
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Name of lead presenter	Hidetoshi Hayashi			Institution or company/position	1	Kindai University Hospital, Osaka, Japan		
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Contributions or endowed chair								
Fees of testimony, judgment, comment, etc.		X						
Presents or other paymen	t	Chugai Pharmaceutical Co., Ltd., Ltd., Eisai Inc., Ono Pharmaceutical Co., Ltd., Takeda Pharmaceutical Co.						
Representative of organiz expenses from company	ation for clinical study receiving research	Х	x					



## Ifinatamab deruxtecan (I-DXd) was designed with 7 key attributes

### I-DXd is a B7-H3 (CD276)–directed ADC with 3 components<sup>1–4</sup>:

- A humanized anti–B7-H3 IgG1 mAb
- A tetrapeptide-based cleavable linker that covalently bonds antibody and payload
- A topoisomerase I inhibitor payload (an exatecan derivative, DXd)



The **mAb** directs the DXd ADC to the tumor cell.

1. Optimized drug-to-antibody ratio ≈4<sup>4,a,b</sup>

The **linker** binds the mAb to the payload.

- 2. Plasma-stable linker-payload<sup>4,a</sup>
- 3. Tumor-selective cleavable linker<sup>4,a</sup>

The **payload** induces cell death when delivered to the tumor.

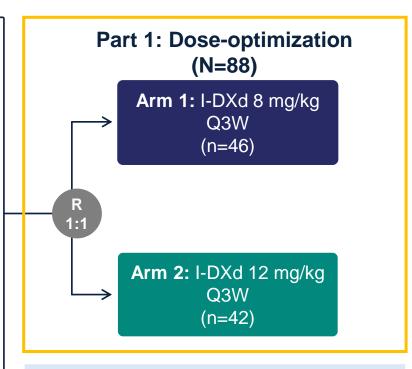
- 4. Topoisomerase I inhibitor<sup>2,4,a</sup>
- 5. High potency<sup>4,a</sup>
- 6. Short systemic half-life<sup>4,a,b</sup>
- 7. Bystander antitumor effect<sup>2,5,a</sup>



## IDeate-Lung01 (NCT05280470): Study design

### Patient eligibility

- Histologically or cytologically documented ES-SCLC
- Age ≥18 years<sup>a</sup>
- ≥1 prior line of PBC and ≤3 prior lines of systemic therapy
- Radiologically documented PD on or after most recent prior systemic therapy
- ECOG PS 0–1
- ≥1 measurable lesion per RECIST 1.1b
- Patients with asymptomatic brain metastases (untreated or previously treated) are eligible



#### **Stratification**

- 2L CTFI <90 days vs 2L CTFI ≥90 days</li> vs 3L or 4L
- Prior anti–PD-(L)1 treatment (yes vs no)

Part 2: **Extended** enrollment at RP3D

12 mg/kg Q3W

Patients who received ≥2 prior lines of therapy (n≈70)

### **Primary endpoint**

ORR by BICR<sup>c</sup>

### **Secondary endpoints**

- DOR by BICR and inv<sup>c</sup>
- PFS by BICR and inv<sup>c</sup>
- OS
- DCR<sup>c</sup>
- TTR by BICR and inv<sup>c</sup>
- ORR by inv<sup>c</sup>
- Safety
- **Pharmacokinetics**
- **Immmunogenicity**

### **Exploratory analysis**

Intracranial ORR by **BICR**<sup>d</sup>

- <sup>a</sup>Or local legal age of consent. <sup>b</sup>Patients must also have ≥1 lesion that has not been irradiated and is amenable to biopsy. <sup>c</sup>Assessed by RECIST 1.1. <sup>d</sup>Assessed using a version of RECIST 1.1 modified for assessment of CNS tumors. 2L, second-line; 3L, third-line; 4L, fourth-line; BICR, blinded independent central review; CTFI, chemotherapy-free interval; DCR, disease control rate; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; ES-SCLC, extensive-stage small cell lung cancer; inv, investigator; ORR, objective response rate; OS, overall survival; PBC, platinum-based chemotherapy; PD, progressive disease; PD-(L)1; programmed death (ligand) 1; PFS, progression-free survival; Q3W. every 3 weeks: R, randomization: RECIST 1.1, Response Evaluation Criteria in Solid Tumours, version 1.1; RP3D, recommended Phase 3 dose; TTR, time to response.



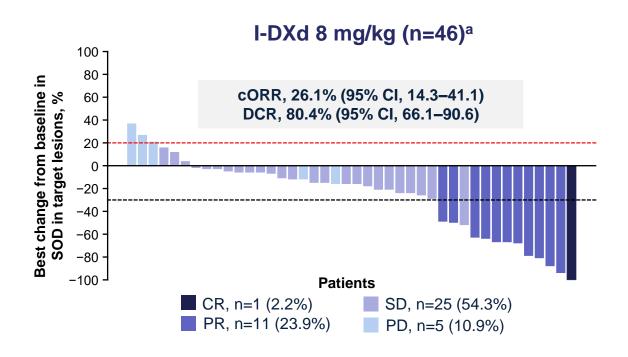
### Baseline characteristics in the overall dose-optimization population

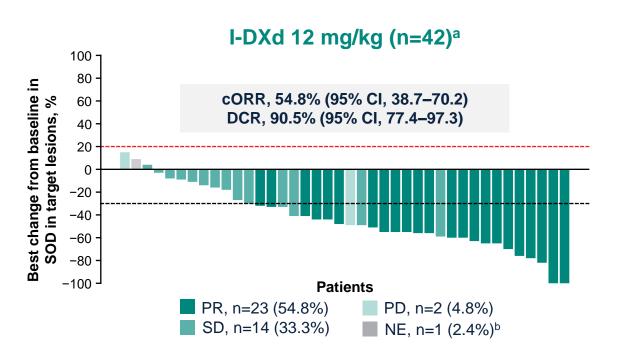
	I-DXd 8 mg/kg n=46	I-DXd 12 mg/kg n=42	Total N=88
Age, median (range), years	64 (42–85)	64 (34–79)	64 (34–85)
Male, n (%)	30 (65.2)	33 (78.6)	63 (71.6)
ECOG PS, n (%)			
0	13 (28.3)	6 (14.3)	19 (21.6)
1	33 (71.7)	36 (85.7)	69 (78.4)
ES-SCLC at diagnosis, n (%)	32 (69.6) <sup>a</sup>	35 (83.3)	67 (76.1)
ES-SCLC at study entry, n (%)	46 (100)	42 (100)	88 (100)
Patients with brain metastases at baseline, n (%)	19 (41.3)	18 (42.9)	37 (42.0)
Subset of patients with brain target lesions at baseline, n (%)	6 (13.0)	10 (23.8)	16 (18.2)
Number of prior lines of systemic therapy, n (%)			
1	13 (28.3)	12 (28.6)	25 (28.4)
2	22 (47.8)	22 (52.4)	44 (50.0)
3	11 (23.9)	8 (19.0)	19 (21.6)
Chemotherapy-free interval, <sup>b</sup> n (%)			
<90 days	22 (47.8)	23 (54.8)	45 (51.1)
≥90 days	22 (47.8)	19 (45.2)	41 (46.6)
Select prior anticancer therapy received, n (%)			
Lurbinectedin	11 (23.9)	3 (7.1)	14 (15.9)
Irinotecan or topotecan	14 (30.4)	17 (40.5)	31 (35.2)
Tarlatamab	4 (8.7)	2 (4.8)	6 (6.8)
Amrubicin	3 (6.5)	3 (7.1)	6 (6.8)
Received prior anti-PD-(L)1 therapy, c n (%)	35 (76.1)	32 (76.2)	67 (76.1)

- Median treatment duration: **8 mg/kg**, 3.5 months (range, 0.03–13.9); **12 mg/kg**, 4.7 months (range, 0.03–15.2)
- Median follow-up: 8 mg/kg, 14.6 months (range, 0.6–17.0); 12 mg/kg, 15.3 months (range, 0.8–20.3)



# I-DXd demonstrated promising antitumor activity; confirmed ORR by BICR was higher in the 12-mg/kg cohort than in the 8-mg/kg cohort



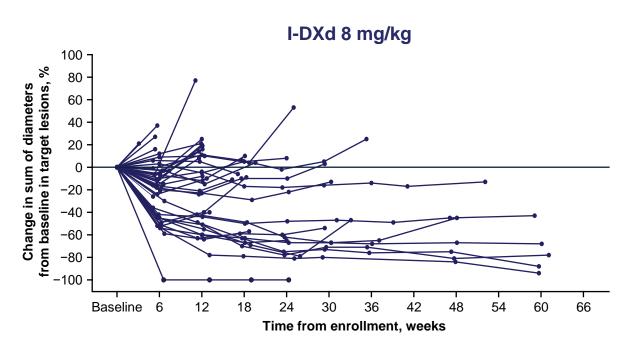


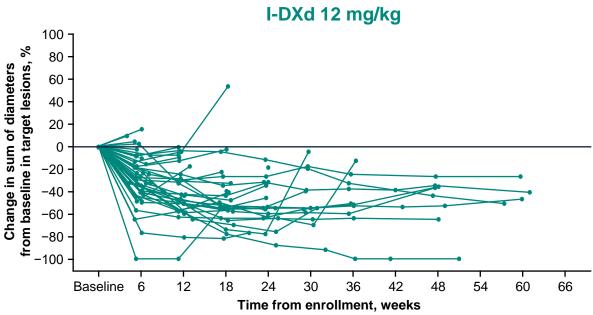


<sup>a</sup>Only patients with measurable disease at baseline and ≥1 post-baseline tumor scan were included in the waterfall plot: in the I-DXd 8-mg/kg cohort (n=42), 2 patients died and 2 patients withdrew consent before the Week 6 assessment; in the 12-mg/kg cohort (n=40), 1 patient died before the Week 6 assessment, and 1 patient did not have target lesions at baseline. <sup>b</sup>This patient has a BOR of NE because the only post-baseline tumor scan was conducted outside the designated time window; the timepoint response was SD. BICR, blinded independent central review; BOR, best overall response; CI, confidence interval; cORR, confirmed objective response rate; CR, complete response; DCR, disease control rate; NE, not evaluable; ORR, objective response rate; PD, progressive disease; PR, partial response: SD, stable disease: SOD, sum of diameters.



# I-DXd treatment was associated with rapid responses at both doses in the overall dose-optimization population



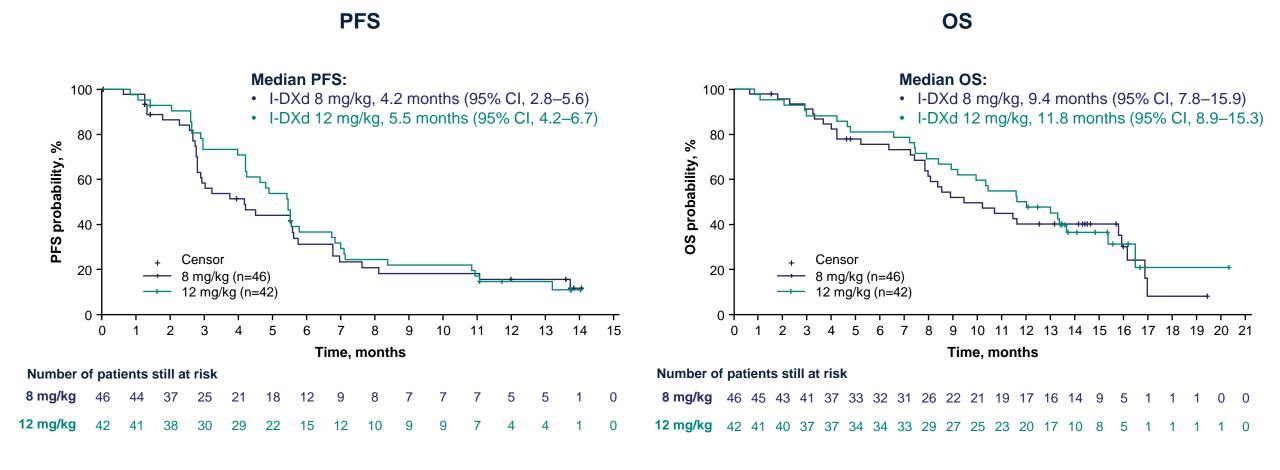


#### Patients with confirmed objective response

	I-DXd 8 mg/kg n=12	I-DXd 12 mg/kg n=23
TTR, <sup>a</sup> median (range), months	1.4 (1.2–1.5)	1.4 (1.0-8.1)
DOR, <sup>a</sup> median (95% CI), months <sup>b</sup>	7.9 (4.1–NE)	4.2 (3.5–7.0)



# Median PFS and OS were numerically longer in the 12-mg/kg cohort than in the 8-mg/kg cohort in the overall dose-optimization population





# I-DXd demonstrated promising intracranial activity in patients with brain metastases at baseline

	Patients with brain m	netastases at baseline	Subset of patients with brain target lesions			
	8 mg/kg (n=19)	12 mg/kg (n=18)	8 mg/kg (n=6)	12 mg/kg (n=10)		
CNS efficacy						
CNS confirmed ORR, <sup>a</sup> % (95% CI)	36.8 (16.3–61.6)	38.9 (17.3–64.3)	66.7 (22.3–95.7)	50.0 (18.7–81.3)		
CNS confirmed BOR, <sup>a</sup> n (%)						
CR	5 (26.3)	4 (22.2)	2 (33.3)	2 (20.0)		
PR	2 (10.5) <sup>b</sup>	3 (16.7) <sup>b</sup>	2 (33.3)	3 (30.0)		
SD or non-CR/non-PD <sup>c</sup>	8 (42.1)	10 (55.6)	2 (33.3)	5 (50.0)		
PD	1 (5.3)	0	0	0		
Not evaluable	3 (15.8)	1 (5.6)	0	0		
CNS confirmed DCR,a,d % (95% CI)	78.9 (54.4–93.9)	94.4 (72.7–99.9)	100 (54.1–100.0)	100 (69.2–100.0)		
CNS DOR, median (95% CI), <sup>a</sup> months	4.3 (3.3-NE)	7.4 (3.0-NE)	3.9 (3.3-NE)	6.5 (3.0-NE)		
CNS TTR, median (range), <sup>a</sup> months	1.4 (1.2–1.5)	1.2 (0.9–2.8)	1.3 (1.2–1.4)	1.2 (0.9–2.8)		
Systemic efficacy						
Systemic confirmed ORR, <sup>e</sup> % (95% CI)	26.3 (9.1–51.2)	61.1 (35.7–82.7)	16.7 (0.4–64.1)	60.0 (26.2–87.8)		
Concordance between systemic and CNS objective response, f %	78.9	77.8	NR	NR		

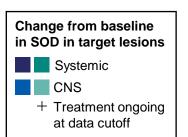
Data cutoff: April 25, 2024.

<sup>a</sup>Assessed by BICR, using a version of RECIST 1.1 modified for assessment of CNS tumors. <sup>b</sup>All patients with PR had target lesions at baseline. <sup>c</sup>Only patients without baseline brain target lesions could have response classified as "non-CR/non-PD." <sup>d</sup>CR + PR + SD + non-CR/non-PD. <sup>e</sup>By BICR per RECIST 1.1. <sup>f</sup>Percentage of patients with both CNS and systemic objective response, and with neither CNS nor systemic objective response.

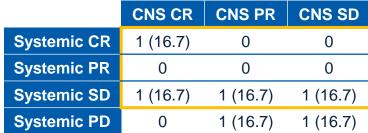
BICR, blinded independent central review; BOR, best overall response; CI, confidence interval; CNS, central nervous system; CR, complete response; DCR, disease control rate; DOR, duration of response; NE, not estimable; NR, not reported; ORR, objective response rate; PD, progressive disease; PR, partial response; RECIST 1.1, Response Evaluation Criteria in Solid Tumours, version 1.1; SD, stable disease; TTR, time to response.



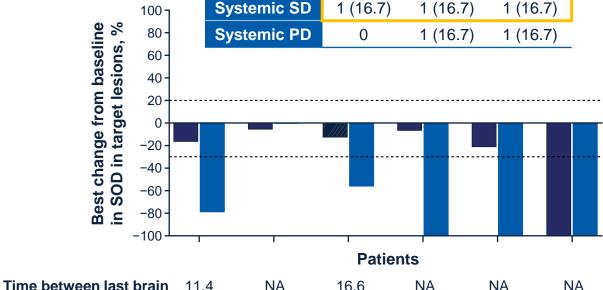
# Over 80% of patients with brain target lesions at baseline had both CNS and systemic disease control

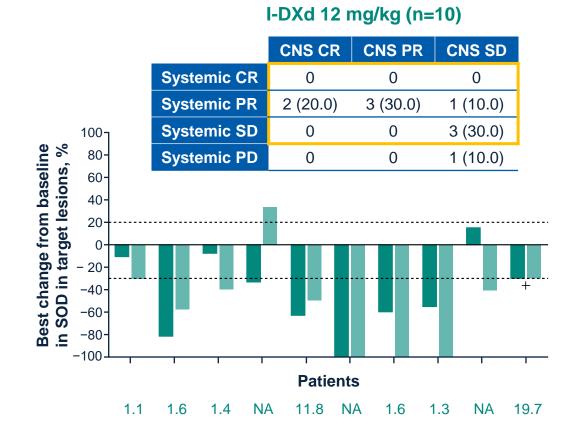


Systemic and intracranial change from baseline in SOD in target lesions



I-DXd 8 mg/kg (n=6)





radiotherapy and start of study treatment, months



### Safety summary: I-DXd was well tolerated at both doses

	I-DXd 8 mg/kg (n=46)	I-DXd 12 mg/kg (n=42)
Median treatment duration (range), months <sup>a</sup>	3.5 (0.03–13.9)	4.7 (0.03–15.2)
Median cycles (range), n	6.0 (1.0–21.0)	7.5 (1.0–23.0)
Any TEAE, n (%)	44 (95.7)	41 (97.6)
TEAEs with CTCAE Grade ≥3, n (%)	20 (43.5)	21 (50.0)
TEAEs associated with treatment discontinuation, n (%)	3 (6.5)	7 (16.7) <sup>b</sup>
TEAEs associated with dose delay, n (%)	10 (21.7)	15 (35.7)
TEAEs associated with dose reduction, n (%)	4 (8.7)	6 (14.3)
TEAEs associated with an outcome of death, n (%)	3 (6.5)	6 (14.3)

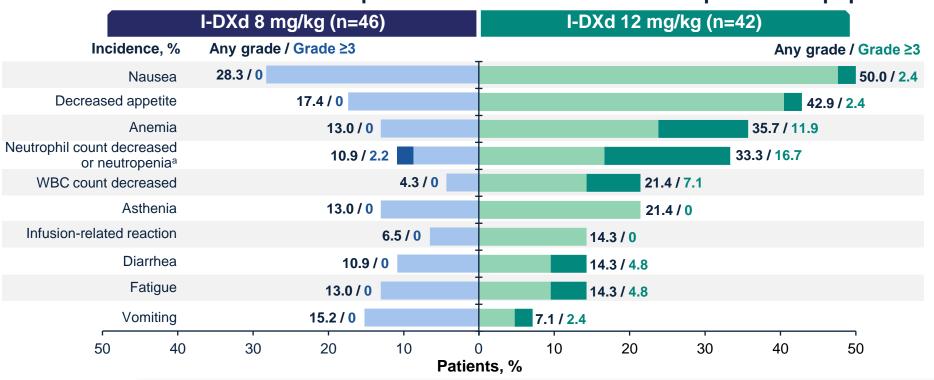
- TEAEs associated with treatment discontinuations were:
  - 8 mg/kg: Grade 2 pneumonitis (n=1); Grade 3 pneumonia (n=1); and Grade 4 pulmonary embolism (n=1)
  - 12 mg/kg: Grade 1 pneumonia (n=1); Grade 2 pneumonitis (n=1) and ILD (n=1); Grade 3 pneumonia<sup>c</sup> (n=1) and *Pneumocystis jirovecii* pneumonia<sup>d</sup> (n=1); Grade 4 radiation pneumonitis (n=1); and Grade 5 septic shock (n=1)
- TEAEs associated with an outcome of death were:
  - 8 mg/kg: disease progression (n=2) and sepsis (n=1); none considered related to study treatment
  - 12 mg/kg: septic shock (n=2), disease progression (n=1), multiple organ dysfunction (n=1), pneumonia<sup>c</sup> (n=1), and *Pneumocystis jirovecii* pneumonia<sup>d</sup> (n=1); only the case of *Pneumocystis jirovecii* pneumonia was considered related to study treatment

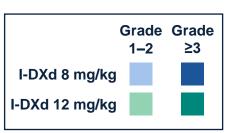
The safety profile of I-DXd was generally comparable between patients with and without baseline brain metastases, and was consistent with the overall population

ed to have Grade 5 pneumonia 1

# The most common treatment-related TEAEs were gastrointestinal and hematologic

Treatment-related TEAEs reported in ≥10% of the total dose-optimization population





- ILD/pneumonitis adjudicated as treatment-related<sup>b</sup> was reported in:
  - Four (8.7%) of 46 patients in the **8-mg/kg** cohort (Grade 2, n=3; Grade 5, n=1)
  - Five (11.9%) of 42 patients in the 12-mg/kg cohort (Grade 1, n=1; Grade 2, n=3; Grade 3, n=1)



### **Summary**

- I-DXd demonstrated promising efficacy in patients with pretreated ES-SCLC, with greater efficacy observed at the 12-mg/kg dose level compared with 8 mg/kg:
  - ORR, 54.8% vs 26.1%; median PFS, 5.5 months vs 4.2 months; median OS, 11.8 months vs 9.4 months
- I-DXd was generally well tolerated and demonstrated a manageable safety profile that was consistent with previous reports;
   the occurrence of TEAEs was dose-dependent, with a higher incidence reported in the 12-mg/kg cohort than in the 8-mg/kg cohort
  - The most common treatment-related TEAEs were gastrointestinal and hematologic (most commonly nausea, decreased appetite, anemia, and decreased neutrophil count or neutropenia)
  - Patients receiving I-DXd 12 mg/kg had a longer treatment duration than those receiving 8 mg/kg (4.7 vs 3.5 months)
  - The majority of cases of adjudicated drug-related ILD were Grade 1 or 2
- Among the 37 patients with baseline brain metastases, CNS confirmed ORR was 37.8%; all 16 patients with brain target lesions at baseline achieved CNS disease control
- The safety profile of I-DXd was generally comparable between patients with and without baseline brain metastases, and was consistent with the overall population
- I-DXd 12 mg/kg has been selected as the RP3D for further clinical development, including in an ongoing Phase 3 trial in patients with relapsed SCLC who have received only 1 prior line of systemic treatment, which must have included PBC (IDeate-Lung02; NCT06203210)

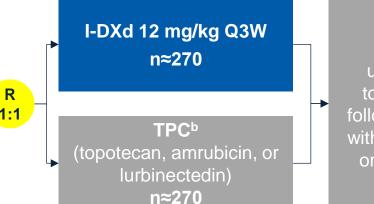


# IDeate-Lung02 study design (NCT06203210)

### Further details of this study are presented at this congress (Poster P93-5)

A Phase 3, multicenter, randomized, open-label study of I-DXd vs treatment of physician's choice in patients with relapsed SCLC who have received only 1 prior line of platinum-based therapy

- Relapsed SCLC
- ECOG PS 0–1
- Received only 1 prior line of systemic treatment, which must have included PBC ± anti-PD-(L)1 therapy<sup>a</sup>
- N≈540



Until PD, unacceptable toxicity, loss to follow-up, consent withdrawal, death, or other reason

Safety<sup>c</sup>
Long-term
follow-up

Every 3

months<sup>d</sup>

Follow-up

#### **Primary endpoints**

- ORR (BICR)e
- OS

#### **Secondary endpoints**

- ORR (investigator)<sup>e</sup>
- PFS, DOR, DCR, and TTR (BICR and investigator)<sup>e</sup>
- Patient-reported outcomes (EORTC questionnaires)
- Safetyf
- Immunogenicity
- Pharmacokinetics
- Relationship between B7-H3 expression and outcomes

#### **Stratification**

- Chemotherapy-free interval following 1L therapy (<90 vs ≥90 days)</li>
- TPC (topotecan vs amrubicin vs lurbinectedin)
- Treatment with prior PD-(L)1 inhibitors (yes vs no)
- Presence or history of asymptomatic brain metastases (yes vs no)

<sup>a</sup>≥80% of patients are expected to have received prior anti–PD-(L)1 therapy. <sup>b</sup>Comparator treatments will only be utilized in countries where they are approved in second and subsequent lines of therapy for patients with SCLC who progressed on or after platinum-based therapy; ≥70% of patients in the comparator group will receive topotecan. <sup>c</sup>Safety follow-up visit will occur 40 days (+7 days) after the last dose. <sup>d</sup>Long-term follow-up will occur to assess survival; assess tumor progression until PD for patients discontinuing for reasons other than PD; and to collect information on further anticancer treatments, every 3 months (90 ±14 days) from study-drug discontinuation (end of treatment), withdrawal of consent, or from when a study-termination criterion is met. <sup>e</sup>Per RECIST 1.1. <sup>e</sup>TEAEs, deaths, serious TEAEs, adverse events of special interest, and TEAEs leading to dose modification or discontinuation.

1L, first-line; B7-H3, B7 homolog 3; BICR, blinded independent central review; DCR, disease control rate; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; EORTC, European Organisation for Research and Treatment of Cancer; ORR, objective response rate; OS, overall survival; PBC, platinum-based chemotherapy; PD, progressive disease; PD-(L)1, programmed death (ligand) 1; PFS, progression-free survival; Q3W, every 3 weeks; R, randomized; RECIST 1.1, Response Evaluation Criteria in Solid Tumours, version 1.1; SCLC, small cell lung cancer; TEAE, treatment-emergent adverse event; TPC, treatment of physician's choice; TTR, time to response.



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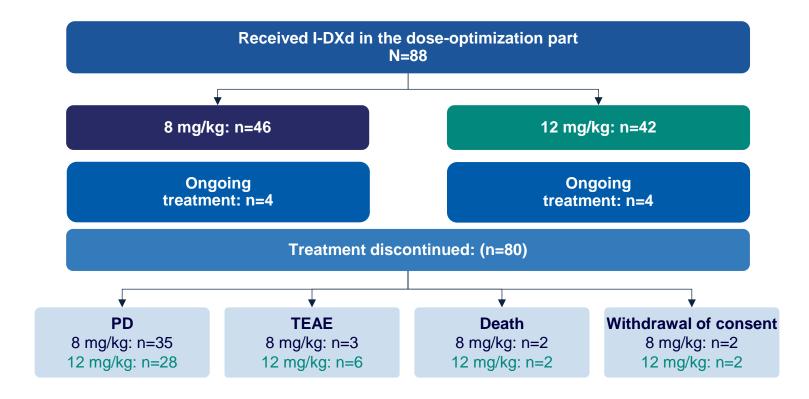
These data were previously presented at the World Conference on Lung Cancer 2024 and the European Society for Medical Oncology Congress 2024.

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### **Patient disposition**





### **Baseline characteristics**

	Dose-optimization population			Patients with brain metastases at baseline			Subset of patients with brain target lesions		
	I-DXd 8 mg/kg n=46	I-DXd 12 mg/kg n=42	Total N=88	I-DXd 8 mg/kg n=19	I-DXd 12 mg/kg n=18	Total n=37	I-DXd 8 mg/kg n=6	I-DXd 12 mg/kg n=10	Total n=16
Age, median (range), years	64 (42–85)	64 (34–79)	64 (34–85)	64.0 (42–79)	62.5 (46–76)	63.0 (42–79)	60.0 (42–79)	58.5 (46–70)	58.5 (42–79)
Male, n (%)	30 (65.2)	33 (78.6)	63 (71.6)	14 (73.7)	12 (66.7)	26 (70.3)	6 (100.0)	7 (70.0)	13 (81.3)
ECOG PS, n (%) 0 1	13 (28.3) 33 (71.7)	6 (14.3) 36 (85.7)	19 (21.6) 69 (78.4)	8 (42.1) 11 (57.9)	3 (16.7) 15 (83.3)	11 (29.7) 26 (70.3)	2 (33.3) 4 (66.7)	1 (10.0) 9 (90.0)	3 (18.8) 13 (81.3)
ES-SCLC at diagnosis, n (%)	32 (69.6) <sup>a</sup>	35 (83.3)	67 (76.1)	15 (78.9)	16 (88.9)	31 (83.8)	5 (83.3)	8 (80.0)	13 (81.3)
Prior brain radiotherapy, n (%)	9 (19.6)	16 (38.1)	25 (28.4)	4 (21.1)	13 (72.2)	17 (45.9)	2 (33.3)	7 (70.0)	9 (56.3)
Number of prior lines of systemic therapy, n (%)  1 2 3	13 (28.3) 22 (47.8) 11 (23.9)	12 (28.6) 22 (52.4) 8 (19.0)	25 (28.4) 44 (50.0) 19 (21.6)	7 (36.8) 7 (36.8) 5 (26.3)	7 (38.9) 8 (44.4) 3 (16.7)	14 (37.8) 15 (40.5) 8 (21.6)	2 (33.3) 3 (50.0) 1 (16.7)	3 (30.0) 4 (40.0) 3 (30.0)	5 (31.3) 7 (43.8) 4 (25.0)
Chemotherapy-free interval, n (%) <90 days ≥90 days	22 (47.8) <sup>b</sup> 22 (47.8) <sup>b</sup>	23 (54.8) 19 (45.2)	45 (51.1) <sup>b</sup> 41 (46.6) <sup>b</sup>	7 (36.8) 11 (57.9)	12 (66.7) 6 (33.3)	19 (51.4) 17 (45.9)	4 (66.7) 2 (33.3)	8 (80.0) 2 (20.0)	12 (75.0) 4 (25.0)
Select anticancer therapy received, n (%) Lurbinectedin Irinotecan or topotecan Tarlatamab Amrubicin	11 (23.9) 14 (30.4) 4 (8.7) 3 (6.5)	3 (7.1) 17 (40.5) 2 (4.8) 3 (7.1)	14 (15.9) 31 (35.2) 6 (6.8) 6 (6.8)	NR	NR	NR	NR	NR	NR
Prior anti-PD-(L)1 therapy received, n (%)	35 (76.1) <sup>c</sup>	32 (76.2) <sup>c</sup>	67 (76.1) <sup>c</sup>	16 (84.2) <sup>d</sup>	17 (94.4)	33 (89.2) <sup>d</sup>	6 (100)	9 (90.0)	15 (93.8)

Data cutoff: April 25, 2024.

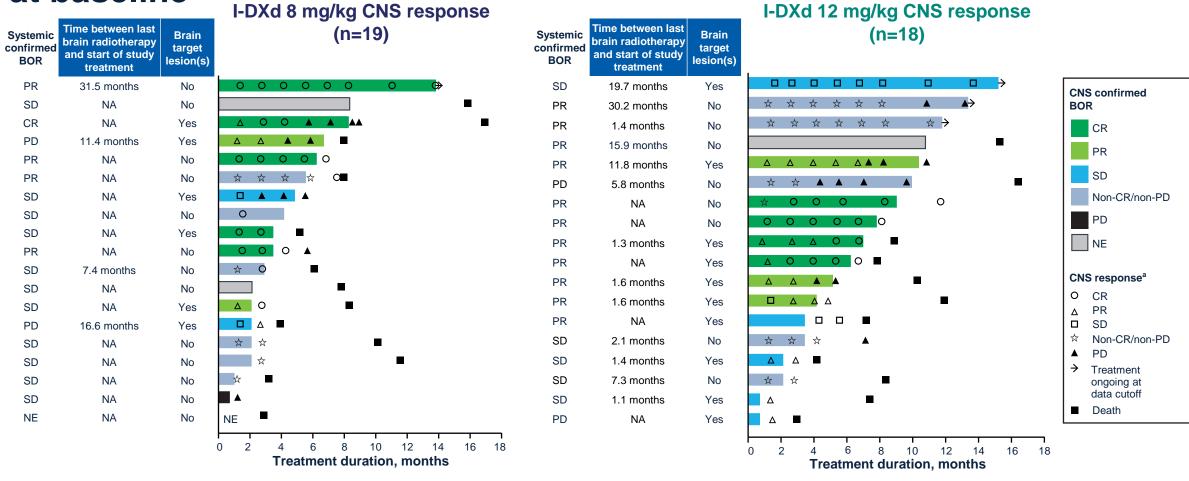
<sup>a</sup>One patient had missing data. <sup>b</sup>Two patients had missing data in the 8-mg/kg cohort. <sup>c</sup>Three patients (8 mg/kg, n=2; 12 mg/kg n=1) were previously treated in a blinded randomized clinical trial; information regarding patients' prior anti–PD-(L)1 therapy was not available. <sup>d</sup>Information on prior use of anti–PD-(L)1 therapy was missing for 1 patient.

ECOG PS, Eastern Cooperative Oncology Group performance status; ES-SCLC, extensive-stage small cell lung cancer; NR, not reported; PD-(L)1; programmed death (ligand) 1.



# Intracranial response over time in patients with brain metastases

at baseline





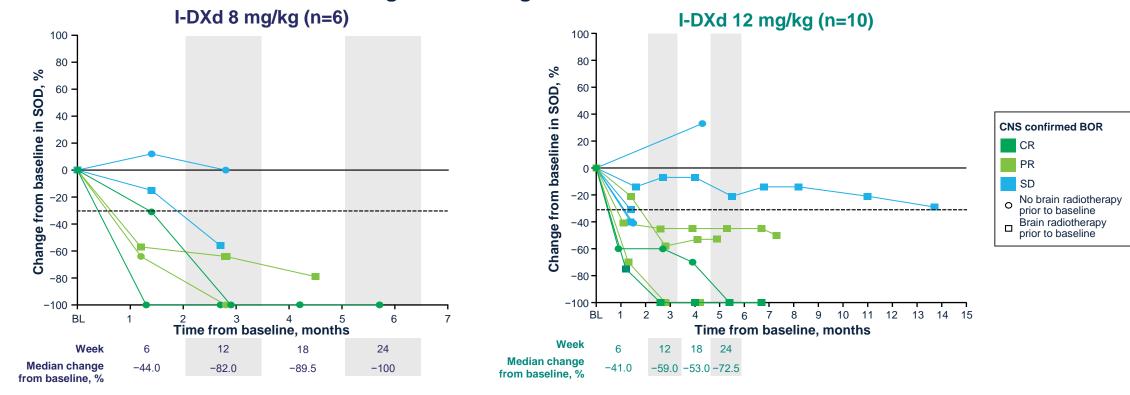
<sup>a</sup>Assessed by BICR, using a version of RECIST 1.1 modified for assessment of CNS tumors. CNS response denoted by these symbols includes both confirmed and unconfirmed responses.

BICR, blinded independent central review; BOR, best overall response; CNS, central nervous system; CR, complete response; NA, not applicable; NE, not evaluable; PD, progressive disease; PR, partial response; RECIST 1.1, Response Evaluation Criteria in Solid Tumours, version 1.1: SD, stable disease.



# Across both dose levels, >80% of patients had reductions in CNS target lesion volume ≥30%<sup>a</sup>

### Change in CNS target-lesion volume



Among the 16 patients with brain target lesions at baseline, 13 (81.3%) had reductions in CNS target-lesion volume ≥30%, including 8 (80.0%) of the 10 patients treated with I-DXd 12 mg/kg

