# Patritumab Deruxtecan (HER3-DXd) In Previously Treated Patients With Advanced EGFR-Mutated (EGFRm) NSCLC: **Updated Safety Results From HERTHENA-Lung01**

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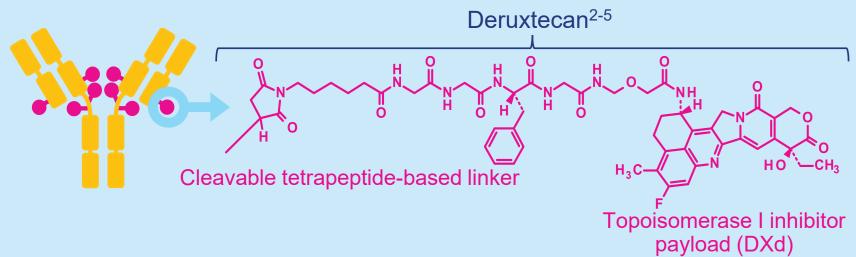
# BACKGROUND

- Tolerable therapies are needed for previously treated patients with advanced EGFR-mutated NSCLC
- Patritumab deruxtecan (HER3-DXd) is an antibody-drug conjugate (Figure 1) that showed meaningful efficacy and a manageable safety profile in the phase 2 HERTHENA-Lung01 trial (NCT04619004)<sup>1</sup>

### **Figure 1** HER3-DXd Structure and Attributes

### HER3-DXd is an ADC composed of 3 parts<sup>2-5</sup>:

- A fully human anti-HER3 IgG1 mAb (patritumab)
- A topoisomerase I inhibitor payload (DXd)
- A tetrapeptide-based cleavable linker that covalently bonds the other 2 components



Payload mechanism of action: topoisomerase I inhibitor<sup>2-5,a</sup>

High potency of payload<sup>2-5,a</sup>

High drug to antibody ratio ≈8<sup>2,3,a</sup>

Payload with short systemic half-life<sup>3,4,a,b</sup>

Stable linker-payload<sup>3-5,a</sup>

Tumor-selective cleavable linker<sup>2-6,a</sup>

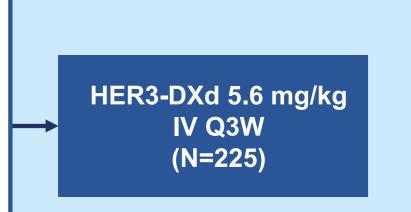
Bystander antitumor effect<sup>3,7,a</sup>

Here we present further details of the safety profile of HER3-DXd in patients with previously treated, advanced EGFR-mutated NSCLC based on follow-up data for 6 months beyond the primary analysis of HERTHENA-Lung01

### Figure 2 Study Design



- Advanced EGFR-mutated NSCLC
- Progression on most recent systemic therapy
- Prior EGFR TKI and prior platinum-based chemotherapy (amended protocol required prior osimertinib)
- Inactive or previously treated asymptomatic brain metastases allowed
- Pretreatment tumor tissue required



Primary endpoint cORR by BICR Key secondary endpoin DOR by BICR

Primary data cutoff: 21 November 2022 Snapshot data cutoff: 18 May 2023 (additional 6 months of follow-up)

# CONCLUSION

- HER3-DXd demonstrated a manageable and tolerable safety profile, consistent with previous reports
- The majority of hematologic and GI TEAEs were transient and occurred in early treatment cycles
- No new safety signals were observed



# METHODS

# RESULTS

- during the 6-month additional follow-up
- 5 grade 2, 3 grade 3)
- appetite (42.2%) (**Figure 3**)

# **Table 1** Patient Demographics and Clinical History

Baseline characteristics	o and omnour motory	HER3-DXd 5.6 mg/kg (N=225)
Age, median (range), years		64 (37-82)
Female, n (%)		132 (58.7)
Asian, n (%)		105 (46.7)
BMI, median (range), kg/m²		22.8 (14.9-42.6)
Smoking history, n (%)	Never	144 (64.0)
	Ever	81 (36.0)
History of GI disorders, n (%) <sup>a</sup>		16 (7.1)
History of hematologic disorders, n (%) <sup>b</sup>		6 (2.7)
ECOG performance status, n (%)	0/1	73 (32.4)/149 (66.2)
ECOG performance status, IT (%)	2 <sup>c</sup>	3 (1.3)
Time since initial NSCLC diagnosis, median (range),	months	41.0 (9.1-224.7)
Sum of target lesion diameters at baseline (BICR), me	edian (range), mm	68 (11-248)
History of CNS metastasis, n (%)		115 (51.1)
Brain metastasis at baseline (BICR), n (%)		72 (32.0)
Liver metastasis at baseline (BICR), n (%)		75 (33.3)
EGFR-activating mutations, n (%) <sup>d</sup>	Ex19del	142 (63.1)
	L858R	82 (36.4)
No of prior lines of systemic therepy	Median (range)	3 (1-11) <sup>e</sup>
No. of prior lines of systemic therapy (in the locally advanced/metastatic setting)	2 prior lines, n (%)	58 (25.8)
(In the locally advanced/metastatic setting)	>2 prior lines, n (%)	165 (73.3)
	Prior EGFR TKI therapy	225 (100.0)
Prior anticoncor systemic thereby regimens $p(0/)$	Prior third-generation EGFR TKI	209 (92.9)
Prior anticancer systemic therapy regimens, n (%)	Prior platinum-based chemotherapy	225 (100.0)
	Prior immunotherapy	90 (40.0)
Prior thoracic radiation therapy		43 (19.1)

# Table 2 Summary of Safety Profile

Safety summary	(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 <sup>a</sup>	4 (1.8)
Grade ≥3	104 (46.2)
Serious TEAE	36 (16.0)

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

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Patients with advanced EGFR-mutated NSCLC (N=225) previously treated with EGFR TKI therapy and platinum-based chemotherapy received HER3-DXd 5.6 mg/kg intravenously once every 3 weeks (Figure 2) Patients with any underlying pulmonary disorder at screening (eg, pulmonary emboli within 3 months prior to study enrollment, severe asthma, severe COPD, restrictive lung disease, pleural effusion) were excluded

At the snapshot data cutoff (18 May 2023), patients with previously treated, advanced EGFR-mutated NSCLC (N=225) (Table 1) had received HER3-DXd 5.6 mg/kg for a median of 5.5 months (range, 0.7-23.7 months) Relative dose intensity, median (range), was 97.4% (57.1%-107.8%) (Table 2)

- 224 patients (99.6%) had any-grade TEAEs; 147 (65.3%) had grade ≥3 TEAEs (**Table 2**)

14 patients (6.2%) had centrally adjudicated treatment-related ILD (**Table 3**); 2 of these events occurred

The median time to onset of adjudicated treatment-related ILD was 70.5 days (range, 9-474 days), and the median duration of ILD with outcomes of resolved (n=10) was 40.0 days (range, 6-207 days)

Among patients without prior immunotherapy (n=135), 5 (3.7%) had an ILD event (3 grade 2, 1 grade 3 1 grade 5); among patients with prior immunotherapy (n=90), 9 (10.0%) had an ILD event (1 grade 1

The most common TEAEs were nausea (66.2%), thrombocytopenia (43.6%; grouped PT), and decreased

 The most common grade ≥3 TEAEs were thrombocytopenia (20.9%; grouped PT), neutropenia (19.1%; grouped PT), and anemia (15.1%; grouped PT)

88.9% of patients had a GI TEAE (SOC of GI disorders), 8.0% were grade ≥3

TEAEs associated with dose interruption, dose reduction, and discontinuation occurred in 41.3%, 22.2%, an 8.4% of patients, respectively (**Table 2; Figure 4**)

<sup>a</sup> Patients with a medical history of SOC GI disorders. <sup>b</sup> Patients with a medical history of SOC blood and lymphatic system disorders. <sup>c</sup> These patients had ECOG performance status of 0 or 1 at screening. <sup>d</sup> 1 patient had both Ex19del and L858R mutations. <sup>e</sup> 2 patients had 1 prior line of therapy.

HFR3-DXd 5.6 mg/kg

# **RESULTS (continued)**

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

Worst ILD grade	Patients with	Adjudicated	Grade after adjudication (all adjudicated ILD were treatment related)						
per investigator	suspected ILD	not ILD	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Total ILD	
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 adjudicat	ed ILD, n (%)	1 (0.4)	8 (3.6)	4 (1.8)	0	1 (0.4)	14 (6.2)	
			(	Outcome of	ILD treatm	ent per inve	estigator		
Treatment for adju by grade per invest			Recovered resolved	/	Recove resolv	0		covered/ esolved	
Corticosteroids (n	=13)								
Grade 1; n=5			4 (80)		1 (20)		0		
Grade 2; n=3			3 (100)		0		0		
Grade 3; n=4			2 (50)		0		2 (50)		
Grade 4; n=1			1 (100)		0		0		
Grade 5; n=0			0		0		0		
	s + antibiotics (n=5	/13)							
Grade 1; n=			0		0		0		
Grade 2; n=			2 (100)		0		0		
Grade 3; n=			2 (100)		0			0	
Grade 4; n=			1 (100)		0			0	
Grade 5; n=			0		0			0	

Worst ILD grade	ade Patients with Adjudicated (all adjudicated ILD were treatment related							
per investigator	suspected ILD	not ILD	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Total ILD
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 adjudicat	ed ILD, n (%)	1 (0.4)	8 (3.6)	4 (1.8)	0	1 (0.4)	14 (6.2)
			(	Dutcome of	ILD treatmo	ent per inve	estigator	
Treatment for adju by grade per inves			Recovered resolved	/	Recover resolvi			covered/ esolved
Corticosteroids (n	=13)							
Grade 1; n=5			4 (80)		1 (20)		0	
Grade 2; n=3			3 (100) 0			0		
Grade 3; n=4			2 (50) 0 2 (50)			(50)		
Grade 4; n=1			1 (100) 0		0			
Grade 5; n=0			0		0		0	
	s + antibiotics (n=5	/13)						
Grade 1; n=	•	-	0		0			0
Grade 2; n=			2 (100) 0		0			
Grade 3; n=			2 (100)		0			0
Grade 4; n=			1 (100)		0			0
Grade 5; n=	0		0		0			0

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

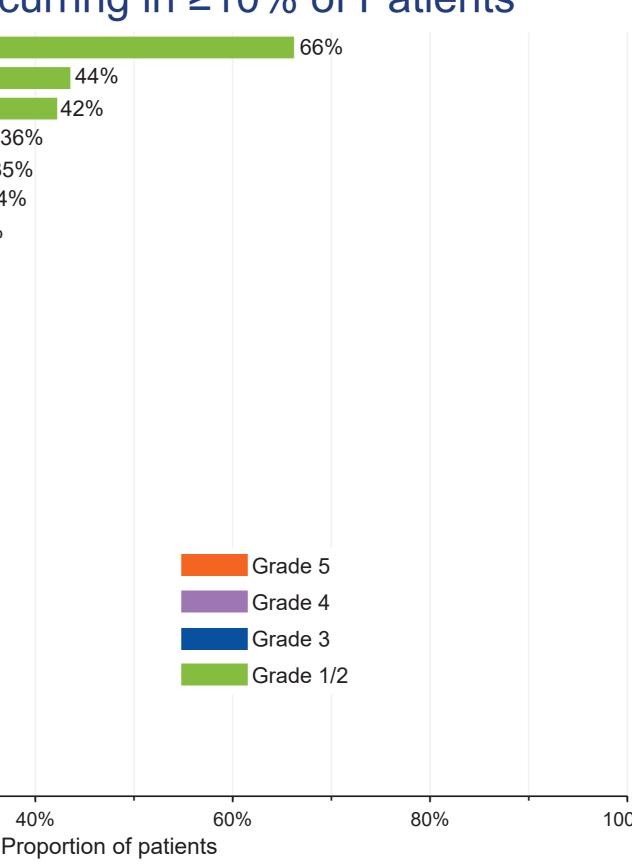
Nausea	<mark>3%</mark>						64%	0
Thrombocytopenia <sup>a</sup>	1	0%	1	1%			23%	
Decreased appetite	3%				39%			
Neutropenia <sup>b</sup>	8%	/o	12%			17%		3
Anemia <sup>c</sup>	1%	14%			20%	6		35
Constipation				34%			3	34
Fatigue	7%	, 0		259	%		32%	6
Diarrhea	<mark>1%</mark>		27	%		2	8%	
Vomiting	1%		269	%		28	%	
Leukopeniad	4%	6%		16%		26%	6	
Alopecia			25%			25%	)	
Dyspnea	4%		16%		20%			
Asthenia	5%		14%		20%			
AST increased	<mark>1</mark> %	169	%	1	7%			
Hypokalemia	4%	1	2%	17	%			
Abdominal pain <sup>e</sup>		16%	, 0	16	%			
Cough		16%	, 0	16	%			
Pyrexia		12%	12	2%				
Stomatitis	<mark>1</mark> %	12%	12	2%				
Headache		12%	12	%				
ALT increased		11%	129	%				
COVID-19	<mark>1</mark> %	10%	119	6				
Weight decreased	1	0%	11%	, 0				
Back pain	1	0%	10%	)				
Epistaxis	1	0%	10%					
C	%			20	)%			

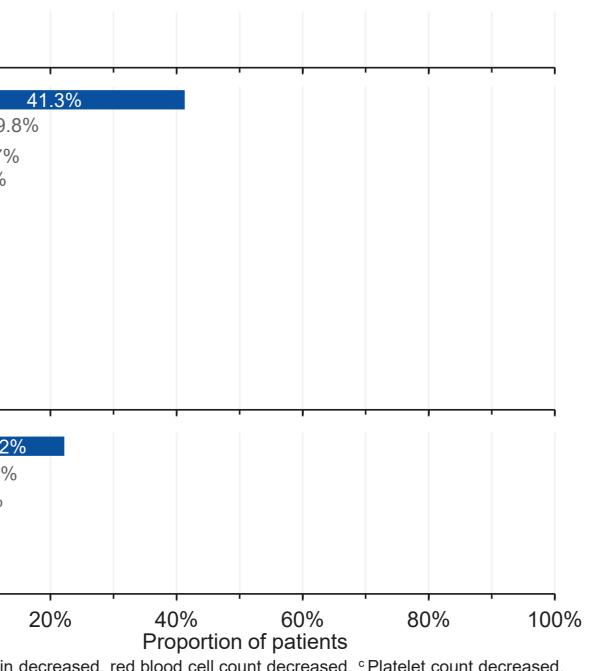
latelet count decreased, thrombocytopenia, <sup>b</sup> Neutropenia, neutrophil count decreased, <sup>c</sup> Anemia, hematocrit decreased, hemoglobin decreased, red blood cell count decreased. <sup>d</sup> Leukopenia, white blood cell count decreased. <sup>e</sup> Abdominal discomfort, abdominal pain, abdominal pain lower, abdominal pain upper. <sup>f</sup> Aphthous ulcer, mouth ulceration, oral mucosa erosion, oral mucosal blistering, stomatitis.

### **Figure 4** TEAEs Associated With Dose Changes in >2% of Patients

Discontinuation of study drug	Any TEAE Pneumonitis	8.4% 2.2%
Dose interruption	Any TEAE	
	Neutropeniaª	9
	Anemia	6.7
	COVID-19	4.0%
	Fatigue	3.6%
	Thrombocytopenia <sup>°</sup>	3.6%
	Asthenia	3.1%
	Pneumonia	3.1%
	Pneumonitis	3.1%
Bloc	od bilirubin increased	2.7%
	Diarrhea	2.2%
	Leukopeniad	2.2%
Dose reduction	Any TEAE	22.
	Thrombocytopenia	6.7
	Fatigue	4.4%
	Anemia	3.6%
	Neutropenia	3.6%
	Nausea	2.2%
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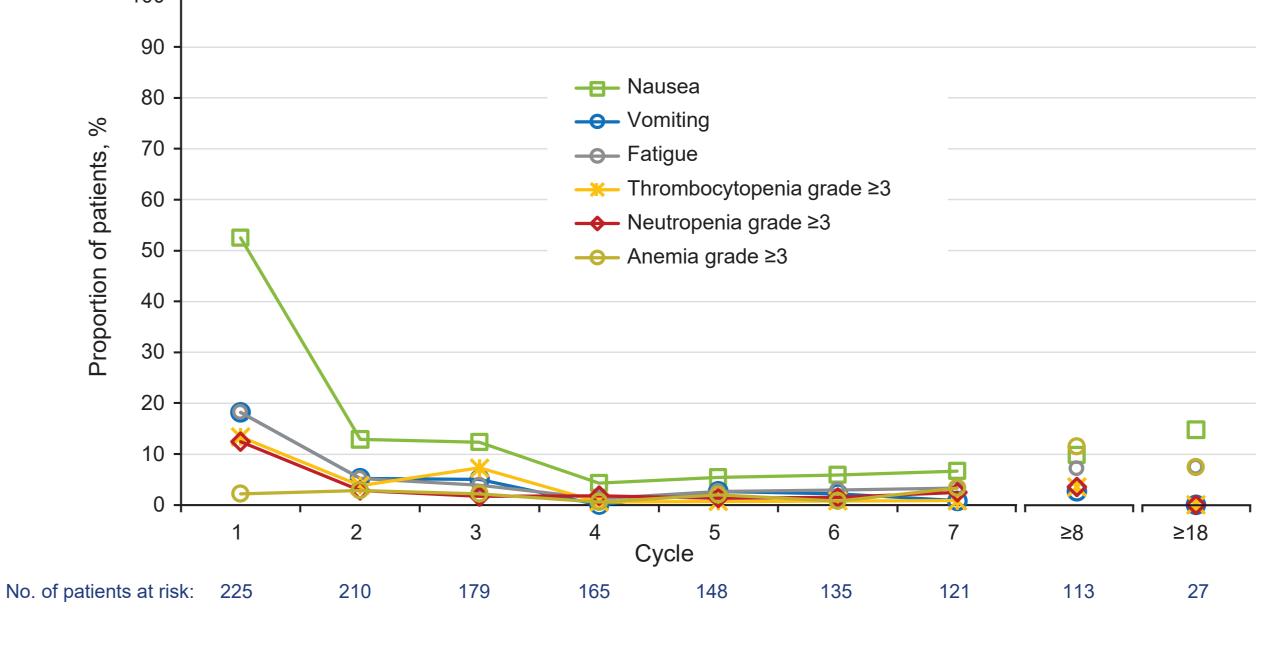
Neutropenia, neutrophil count decreased. <sup>b</sup> Anemia, hematocrit decreased, hemoglobin decreased, red blood cell count decreased. <sup>c</sup> Platelet count decreased. thrombocytopenia. <sup>d</sup> Leukopenia, white blood cell count decreased.



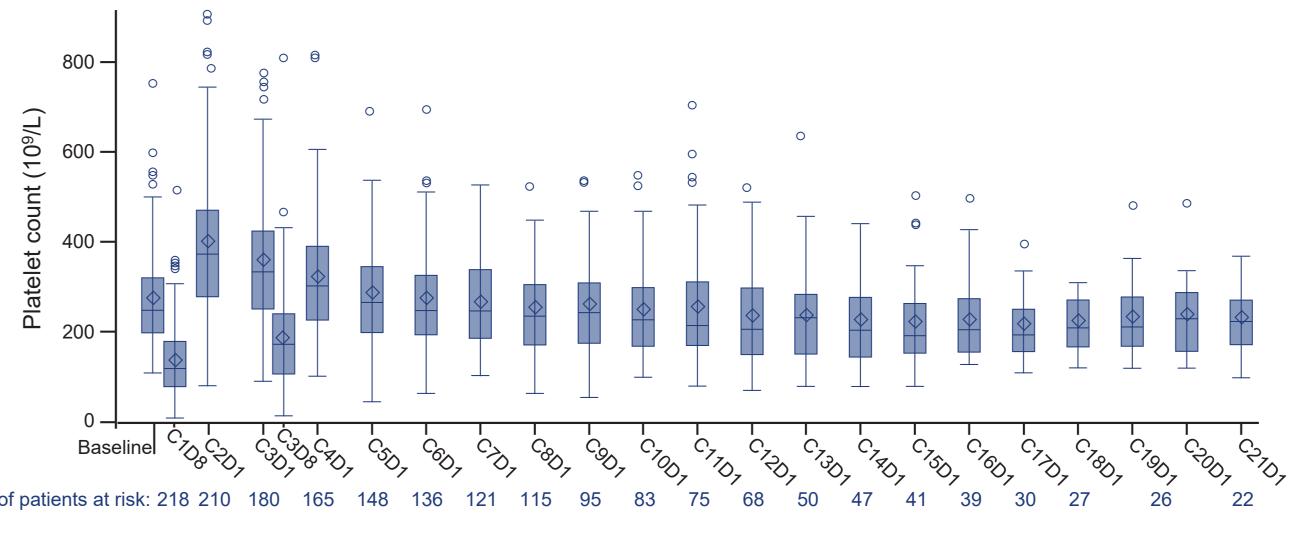


- The incidence of TEAEs of nausea and vomiting generally decreased over the course
- The incidence of grade ≥3 thrombocytopenia and neutropenia peaked at cycle 1 and cycles (Figure 5)
- The incidence of grade ≥3 anemia was consistently low over the course of treatn The median platelet count showed a drop at cycle 1 day 8, followed by an increase
- to zero change from baseline (Figure 6) The median changes from baseline for neutrophil count and hemoglobin level we
- course of treatment (**Figure 7**)
- Hematologic TEAEs were transient and managed by dose modifications and routine

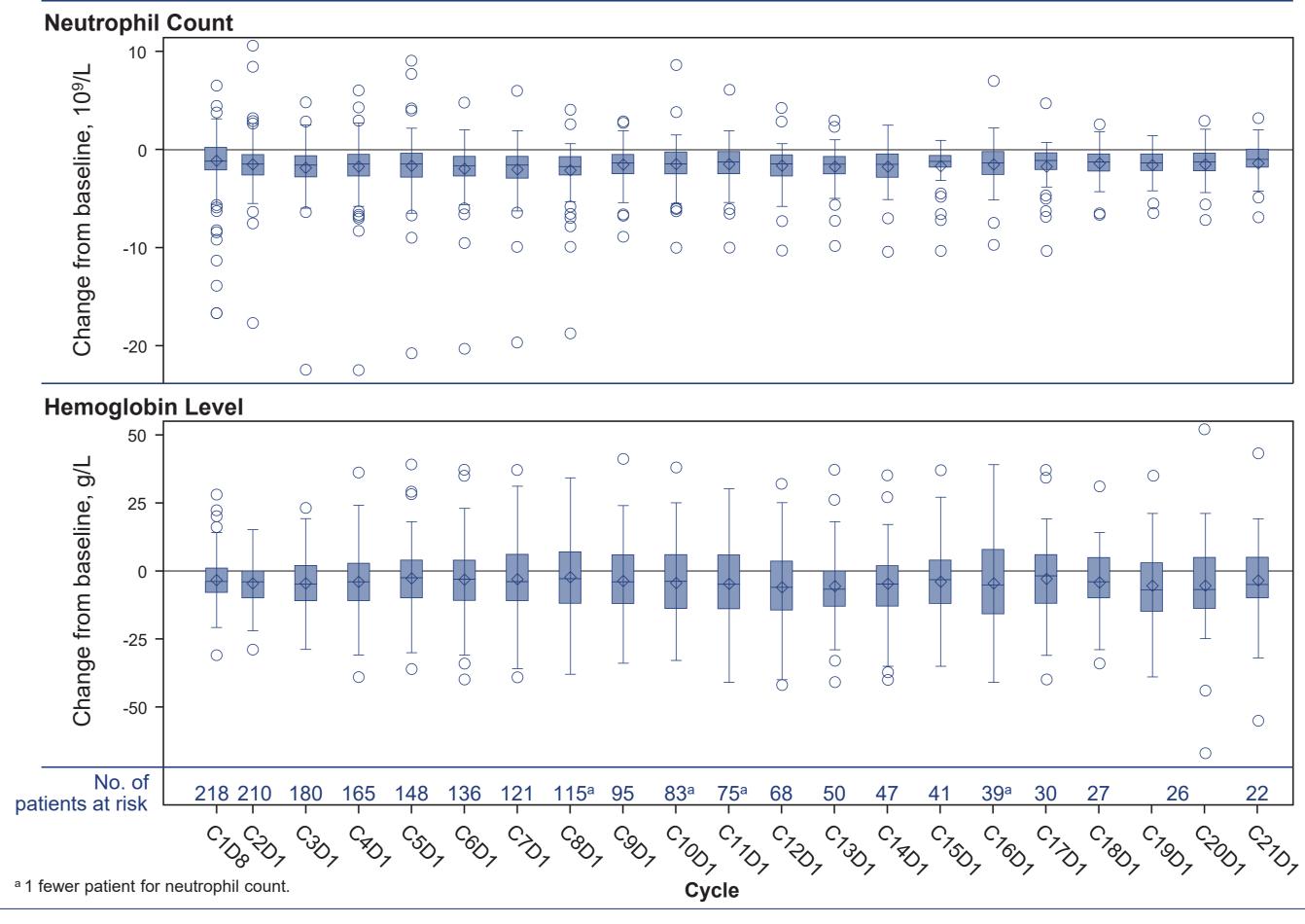
# **Figure 5** TEAEs by Cycle of Treatment



# Figure 6 Platelet Count



# **Figure 7** Change in Neutrophil Count and Hemoglobin Level





rse of treatment ( <b>Figure 5</b> ) nd decreased in later ment	<ul> <li>Platelet transfusions for thrombocytopenia were received by 20 patients (8.9%) (Table 4)</li> <li>No patients discontinued treatment due to thrombocytopenia</li> <li>Two patients (0.9%) experienced grade ≥3 bleeding events (unrelated to treatment) within ±14 days of a grade ≥3 decreased platelet count</li> </ul>
at cycle 2 day 1, tapering ere close to zero over the	<ul> <li>Granulocyte colony-stimulating factor was used to manage neutropenia in 23 patients (10.2%) (Table 4)</li> <li>Febrile neutropenia occurred in 7 patients (3.1%; all grade ≥3) of whom 4 (1.8%) were treated with granulocyte colony-stimulating factor</li> </ul>
e clinical practice ( <b>Table 4</b> )	<ul> <li>Two patients (0.9%) experienced grade ≥3 infections (unrelated to treatment) within ±14 days of grade ≥3 neutropenia</li> </ul>
	<ul> <li>Red blood cell transfusions for anemia were received by 28 patients (12.4%) (Table 4)</li> <li>Treatment discontinuation was associated with anemia in 1 patient (0.4%)</li> </ul>
	<ul> <li>Most patients with adjudicated ILD events (n=14; all of which were adjudicated to be treatment related) received corticosteroids (n=13 [93%]); 5 (36%) also received antibiotics (Table 3)</li> </ul>
	<ul> <li>Among the 13 patients treated with corticosteroids, per investigator, 10 had recovered/resolved, 1 was recovering, and 2 had not recovered</li> </ul>
	<ul> <li>Among the 10 patients who recovered/resolved (per investigator), 4 discontinued HER3-DXd (grades by investigator/adjudication, 2/2, 2/3, 3/2, and 4/3), 1 had a dose reduction (grade 1/2), 4 had a dose interruption (grades, 1/2, 1/2, 1/5, and 3/3), and 1 did not have any dose modifications for ILD (grade 2/2)</li> <li>One patient with adjudicated grade 1 ILD did not receive corticosteroids and was recovering/resolving, per investigator</li> </ul>
	Table 4 Timing and Management of Hematologic TEAEs

Hematologic Event	HER3-DXd 5.6 mg/ (N=225)
Thrombocytopenia (grouped PT; grade ≥3)	
Time to onset, median (range), days	8.0 (7-243)
Duration, median (range), days	12.5 (4-20)
Patients receiving platelet transfusion for thrombocytopenia within 28 days of onset, n (%)	20 (8.9)
Grade ≥3 bleeding events within ±14 days of grade ≥3 platelet count decrease, n (%)	2 (0.9)
Gastrointestinal hemorrhage	1 (0.4)
Hemothorax	1 (0.4)
Neutropenia (grouped PT; grade ≥3)	
Time to onset, median (range), days	21.0 (8-299)
Duration, median (range), days	7.0 (3-37)
Patients treated with granulocyte colony-stimulating factor for neutropenia within 28 of onset including febrile neutropenia, n (%)	23 (10.2)
Neutropenia	21 (9.3)
Febrile neutropenia	4 (1.8)
Grade ≥3 neutropenic infection within ±14 days of grade ≥3 neutrophil count decrease, n (%)	2 (0.9)
Sepsis	1 (0.4)
Septic shock	1 (0.4)
Anemia (grouped PT; grade ≥3)	
Time to onset, median (range), days	98.5 (3-462)
Duration, median (range), days	13.0 (2-247)
Patients receiving red blood cell transfusion for anemia with 28 days of onset, n (%)	28 (12.4)

### ABBREVIATIONS

ADC, antibody-drug conjugate; ALT, alanine aminotransferase; AST, aspartate aminotransferase; BICR, blinded independent central review; BMI, body mass index; C, cycle; CNS, central nervous system; COPD, chronic obstructive pulmonary disease; cORR, confirmed objective response rate; D, day; DOR, duration of response; ECOG, Eastern Cooperative Oncology Group; EGFR, epidermal growth factor receptor; GI, gastrointestinal; HER3, human epidermal growth factor receptor 3; Ig, immunoglobulin; ILD interstitial lung disease; IV, intravenous; mAb, monoclonal antibody; NSCLC, non-small cell lung cancer; PT, preferred term; Q3W, every 3 weeks; SOC, system organ class; TEAE, treatment-emergent adverse event; TKI, tyrosine kinase inhibitor

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### **CONFLICT OF INTEREST**

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