

Safety profile and side effect management of ADCs treatment

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Outline

- Brief overview of ADCs in lung cancer treatment:
 - ADCs in HER2m-mNSCLC
- Safety profile and side effect management of ADCs treatment
 - ILD/pneumonitis management
- Case experience

Overview of ADCs for lung cancer



Passaro et al. J Clin Oncol. 2023 May 24

Overview of ADCs for lung cancer

- ADC application in lung cancer treatment:
 - HER2
 - TROP2
 - cMET
 - HER3

HER2 alteration in NSCLC



- Not all tumors with HER2 protein expression have HER2 gene amplification.
- HER2 mutation and HER2 amplification are distinct entities with only ~10% overlap.

	Frequency
Overexpression (IHC 2+ and 3+)	15%-30%
Overexpression (IHC 3+)	2%-6%
Amplification	2%-6%
Mutations	1%-5%

Nakamura. Int J Cancer. 2003;103:61; Mazières. JCO. 2013;31:1997; Li. J Thorac Oncol. 2016;11:414.

HER2m-mNSCLC

- ADCs:
 - T-DM1 (Ado-Trastuzumab Emtansine)
 - T-Dxd (Trastuzumab Deruxtecan)

T-DM1 Ado-Trastuzumab Emtansine (T-DM1) for Patients With HER2-Amplified or Mutant Cancer



Ado-trastuzumab emtansine PI. Li. JCO. 2018;36:2532. Li. Cancer Discov. 2020;10:674.

T-DM1 Clinical Activity of T-DM1: HER2-Mutated or HER2-Amplified NSCLC



ORR:

- **50%** (14/28; 95% CI: 31%-69%) for *ERBB2*-mutant patients
- 50% (5/10; 95% CI: 19%-81%) for concurrently *ERBB2*mutant and *ERBB2*-amplified patients
- **55%** (6/11; 95% CI: 23%-83%) for *ERBB2*-amplified patients

*Indicates response per modified PET Response Criteria in Solid Tumors (PERCIST). [†]Excludes n = 1 without measurable disease. Overall RR: 51% Median DoR: 4.4 mo Median PFS: 5.0 mo

T-DM1 Treatment-Related Adverse Events of T-DM1 in NSCLC

Δ Ξ p (0/)* [†]	Patients				
AE, II (70)	Grade 1	Grade 2	Grade 3	Total	
Elevated AST or ALT	28 (57)	3 (6)		31 (63)	
Thrombocytopenia	13 (27)	1 (2)	1 (2)	15 (31)	
Fatigue	6 (12)	2 (4)		8 (16)	
Nausea	14 (29)			14 (29)	
Infusion reaction	2 (4)	5 (10)		7 (14)	
Anorexia	3 (6)	2 (4)		5 (10)	
Anemia	1 (1)	3 (6)	1 (2)	5 (10)	

*According to Common Terminology Criteria for Adverse Events Version 4.1. ⁺No grade 4 or 5 AEs.

HER2-Targeted ADC: Trastuzumab Deruxtecan (T-DXd)



Nakada. Chem Pharm Bull (Tokyo). 2019;67:173. Trail. Pharmacol Ther. 2018;181:126. Ogitani. Cancer Sci. 2016;107:1039.

T-DXd

T-DXd DESTINY-Lung01: in *HER2*-Mutated/Overexpressing Metastatic NSCLC



^a Patients with asymptomatic brain metastases not requiring ongoing steroid or anticonvulsant therapy were allowed to enroll. ^b HER2 mutation documented solely from a liquid biopsy could not be used for enrollment. ^c HER2 overexpression without known HER2 mutation was assessed by local assessment of archival tissue and centrally confirmed.
^d Per RECIST v1.1.

1.Smit E et al. J Clin Oncol. 2020;38(15_suppl):9504; 2.Li BT et al. N Engl J Med. 2022;386:241-251

T-DXd DESTINY-Lung01: in HER2-Mutated Metastatic NSCLC



LI BT et al. N Engl J Med. 2022;386:241-251

T-DXd DESTINY-Lung01: in *HER2*-Overexpressing Metastatic NSCLC

Confirmed ORR: 24.5% (95% CI: 13.3% to 38.9%)

HER2 mutant (cohort 2):

- ORR: 54.9%
- mPFS: 8.2 mo
- mOS: 17.8 mo



PFS (n = 49)

OS (n = 49)

Nakagawa. WCLC 2020. Abstr OA04.05.

T-DXd DESTINY-Lung01: in *HER2*-Overexpressing Metastatic NSCLC

Event, %	Cohort 1 (6.4 mg/kg) n = 49	Cohort 1a (5.4 mg/kg) n = 41
Any-grade TEAEs	100	100
Drug related	89.8	92.7
Grade ≥3 TEAEs	81.6	51.2
Drug related	53.1	22
TEAEs associated with drug discontinuation	26.5	17.1
Drug related	16.3	7.3
TEAEs associated with dose reduction	36.7	17.1
Drug related	34.7	17.1
TEAEs associated with drug interruption	49	24.4
Drug related	34.4	9.8
TEAEs associated with death	20.4	17.1
Drug related	2	0

 Independently adjudicated drug-related ILD of any grade occurred in 20.4% and 4.9% of patients in cohorts 1 and 1a, respectively

T-DXd **DESTINY-Lung01:** in *HER2*-Mutated Metastatic NSCLC

Safety Outcome T-DXd (N = 91)		Drug-Related TEAEs	T-DXd (N = 91)	
Drug-related TEAE, n (%) ■ Grade ≥ 3	lated TEAE, n (%) 88 (97)		Any Grade	Grade ≥3
 Serious 	18 (20)	Nausea	66 (73)	8 (9)
Drug-related TEAE outcomes, n (%)		Fatigue	48 (53)	6 (7)
 Discontinuation 	23 (25)	Alopecia	42 (46)	0
 Dose reduction Death 	2 (2)	Vomiting	36 (40)	3 (3)
Median treatment duration. mo		Neutropenia	32 (35)	17 (19)
(range)	6.9 (0.7-26.4)	Anemia	30 (33)	9 (10)
 Grade 5 events deemed therapy related: n = 1 pneumonitis/ILD: n =1 ILD 		Diarrhea	29 (32)	3 (3)
		Deceased appetite	27 (30)	0
		Leukopenia	21 (23)	4 (4)

Constipation

pneumonitis/ILD; n =1 ILD

0

20 (22)

DESTINY-Lung02

Blinded, randomized, multicenter, international, noncomparative, phase 2 trial (NCT04644237)



Statistical Considerations

- Statistical hypothesis testing for the primary analysis was performed by comparing the lower limit of the 95% Clopper-Pearson CI of confirmed ORR with the benchmark ORR of 26.4% (upper limit of the ORR 95% CI in the ramucirumab-plus-docetaxel arm of the REVEL trial)
- The study was not powered to statistically compare between arms

^aPatients with stable baseline brain metastases (asymptomatic; not requiring corticosteroid or anticonvulsant treatment) were eligible. ^bActivating HER2 mutation documented from an archival or fresh tumor tissue sample by certified local laboratory assessment. c1 patient randomly assigned to the T-DXd 5.4 mg/kg arm did not receive treatment as the patient discontinued due to COVID-19 before cycle 1 day 1. 2L+, second line or later; BICR, blinded independent central review; DCR, disease control rate; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; HER2m, human epidermal growth

factor receptor 2-mutant; INV, investigator assessment; NSCLC, non-small cell lung cancer; ORR, objective response rate; OS, overall survival; PD-(L)1, programmed death (ligand) 1; PFS, progression-free survival; Q3W, every 3 weeks; R. randomization; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1; T-DXd, trastuzumab deruxtecan.

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DESTINY-Lung02: Systemic Efficacy, brain met vs not

	T-DXd 5 DL	.4 mg/kg -02	Pooled T-DX DL-01 <i>HEF</i>	(d 6.4 mg/kg ₹2m/DL-02
Efficacy/safety outcome	BM n = 32	Non-BM n = 70	BM n = 54	Non-BM n = 87
Systemic cORR, n (%) ^a	15 (46.9)	35 (50.0)	27 (50.0)	51 (58.6)
95% Cl ^b	29.1-65.3	37.8-62.2	36.1-63.9	47.6-69.1
DCR, n (%) ^a	29 (90.6)	66 (94.3)	50 (92.6)	80 (92.0)
95% Cl ^b	75.0-98.0	86.0-98.4	82.1-97.9	84.1-96.7
DoR, median, months ^c	4.6	16.8	7.2	14.1
95% CI	4.2-9.5	8.7-NE	5.3-NE	9.3-NE
Sites of progression, n (%)				
Intracranial only	3 (9.4)	0	8 (14.8)	0
Extracranial only	6 (18.8)	14 (20.0)	9 (16.7)	23 (26.4)
Both	3 (9.4)	0	0	2 (2.3)
Missing	1 (3.1)	1 (1.4)	5 (9.3)	10 (11.5)
Median PFS, months 95% Cl	7.1 5.5-9.7	18.0 8.5-NE	7.1 4.5-9.6	11.9 7.2-16.1
Median OS, months 95% Cl	13.6 9.4-NE	19.5 14.9-NE	13.8 11.1-19.5	27.9 17.8-NE
Grade ≥3 TEAE, n (%)	20 (64.5) ^d	33 (47.1)	41 (75.9)	55 (63.2)
Drug related	12 (38.7) ^d	27 (38.6)	32 (59.3)	39 (44.8)

<u>T-DXd 5.4 mg/kg Arm</u>: mDOR: 16.8 mo mPFS: 9.9 mo mOS: 19.5 mo





DESTINY-Lung02 Adjudicated Drug-Related ILD

Adjudicated as drug-related ILD	T-DXd 5.4 mg/kg N = 101ª	T-DXd 6.4 mg/kg N = 50ª
Any grade, n (%)	13 (12.9)	14 (28.0)
Grade 1	4 (4.0)	4 (8.0)
Grade 2	7 (6.9)	9 (18.0)
Grade 3	1 (1.0)	0
Grade 4	0	0
Grade 5	1 (1.0)	1 (2.0)

Most adjudicated drug-related ILD events were low grade

All potential ILD/pneumonitis cases by DCO have been adjudicated. ^aThe safety analysis set included all randomly assigned patients who received ≥1 dose of study drug. DCO, data cut off; ILD, interstitial lung disease; T-DXd, trastuzumab deruxtecan.

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Safety profile and side effect management of ADCs treatment

Overview of the Studied Doses for T-DXd in Lung Cancer and Colorectal Cancer





 T-DXd is currently under investigation for the treatment of patients with non-small cell lung cancer



5.4 and 6.4 mg/kg*

 T-DXd is currently under investigation for the treatment of patients with colorectal cancer

*This is an investigational dose for investigational tumors. It has currently not been evaluated by any global regulatory authorities.

HER2, human epidermal growth factor receptor 2; T-DXd, trastuzumab deruxtecan. 1. Li BT, et al. *N Engl J Med.* 2021. 2. Siena S, et al. *Lancet Oncol.* 2021;22:779-789.





Making Cancer History*

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Overview of the Recommended Dose for T-DXd



5.4 mg/kg

T-DXd is indicated for the treatment of adult patients with:

 Unresectable or metastatic HER2-positive breast cancer who have received two or more prior anti-HER2-based regimens in the metastatic setting*

T-DXd is indicated for the treatment of adult patients with:

Gastric³

6.4 mg/kg

 Locally advanced or metastatic HER2-positive gastric or gastroesophageal junction adenocarcinoma who have received a prior trastuzumab-based regimen*

*Please check local regulations for approval status and exact indication per region

HER2, human 2; T-DXd, trastuzumab deruxtecan.

1. Modi S, et al. N Engl J Med. 2020;382(7epidermal growth factor receptor):610-621. 2. Tamura K et al. Lancet Oncol. 2019; 20:816-26. 3. Shitara K, et al. N Engl J Med. 2020;382(25):2419-2430.

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Warnings & Precautions: ILD/Pneumonitis

Adverse Reactions of Special Interest Reported Among Patients With *HER2* Mutated NSCLC (Cohort 2) Receiving T-DXd 6.4 mg/kg in DESTINY-Lung01 (n = 91)¹



^a NCI-CTCAE v.4.03

CTCAE, Common Terminology Criteria for Adverse Events; HER2, human epidermal growth factor receptor 2; ILD, interstitial lung disease; LVEF, left ventricular ejection fraction; NCI, National Cancer Institute; NSCLC, non-small cell lung cancer; T-DXd, trastuzumab deruxtecan. 1. Li BT, et al. *NEJM*. 2021.

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Data cutoff: May 3, 2021

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Adverse Reactions of Special Interest and Time to Onset Reported Among Patients With mBC Receiving T-DXd 5.4 mg/kg in a Pooled Analysis (N=234)



^a NCI-CTCAE v.4.03. ^b Grouped term of neutropenia includes preferred terms of decreased neutrophil count and neutrophil count decreased.

AR, adverse reaction; CTCAE, Common Terminology Criteria for Adverse Events; ILD, interstitial lung disease; LVEF, left ventricular ejection fraction; mBC, metastatic breast cancer; T-DXd, trastuzumab deruxtecan

1. Trastuzumab Deruxtecan Summary of Product Characteristics

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Data cutoff: August 1, 2019

Adverse Reactions of Special Interest Reported Among Patients With mBC Receiving T-DXd 5.4 mg/kg in DESTINY-Breast03

Adjudicated as drug-related ILD/pneumonitisª, n (%)						
n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any Grade
T-DXd (n = 257)	7 (2.7)	18 (7.0)	2 (0.8)	0	0	27 (10.5)
T-DM1 (n = 261)	4 (1.5)	1 (0.4)	0	0	0	5 (1.9)

• There were no grade 4 or 5 adjudicated drug-related ILD/pneumonitis events observed with T-DXd

LVEF decrease, n (%)						
n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any Grade
T-DXd (n = 257)	1 (0.4) ^b	6 (2.3) ^c	0	0	0	7 (2.7)
T-DM1 (n = 261)	0	1 (0.4) ^c	0	0	0	1 (0.4)

 In the T-DXd arm, all reported adverse events of LVEF decrease were asymptomatic and no cases of cardiac failure occurred

LVEF, left-ventricular ejection fraction.

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^aPatients with prior history of ILD/pneumonitis requiring steroids were excluded. ^bLeft ventricular dysfunction. ^cDecreased ejection fraction Cortes J. et al. Presented at ESMO Virtual Congress **20**21; September 16-20, 2021.

Data cutoff: May 21, 2021

An ILD/Pneumonitis Management Program for T-DXd Clinical Studies Has Been Established

Updated Guidelines (2019)

STEP 1: Monitor

Suspected ILD/pneumonitis

Interrupt drug

Rule out ILD/pneumonitis if a patient develops radiographic changes potentially consistent with ILD/pneumonitis or develops an acute onset of new or worsening pulmonary or other related signs/symptoms, such as dyspnea, cough, or fever.

STEP 2: Confirm

Evaluations should include:

- High-resolution CT
- Pulmonologist consultation (infectious disease consultation as clinically indicated)
- Blood culture and CBC. Other blood tests could be considered as needed
- Consider bronchoscopy and bronchoalveolar lavage if clinically indicated and feasible
- PFTs and pulse oximetry
- Arterial blood gasses, if clinically indicated
- One blood sample collection for PK analysis as soon as ILD/pneumonitis is suspected, if feasible

All events of ILD/pneumonitis, regardless of severity or seriousness, should be followed until resolution including after drug discontinuation.

STEP 3: Manage

Drug must be interrupted for any ILD/pneumonitis events regardless of grade

- Grade 1: Interrupt until fully resolved, then:
- if resolved in 28 days or less from date of onset, maintain dose
- if resolved in greater than 28 days from date of onset, reduce dose one level
- however, if the event Grade 1
 ILD/pneumonitis occurs beyond cycle day 22
 and has not resolved within 49 days from the last infusion, the drug should be discontinued
- Grades 2-4: Permanently discontinue treatment. Refer to toxicity management guidelines for trastuzumab deruxtecan

Li BT, et al. Article and supplementary appendix. N Engl J Med. 2021.

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ILD/Pneumonitis Management Guidelines for T-DXd

Updated Guidelines (2019)

Grade 1

- Monitor and closely follow-up in 2 to 7 days for onset of clinical symptoms and pulse oximetry
- Consider follow-up imaging in 1-2 weeks (or as clinically indicated)
- Consider starting systemic steroids (e.g. at least 0.5 mg/kg/day prednisone or equivalent) until improvement, followed by gradual taper over at least 4 weeks
- If worsening of diagnostic observations despite initiation of corticosteroids, then follow Grade 2 guidelines
 - If patient is asymptomatic, then patient should still be considered as grade 1 even if steroid treatment is given

• Promptly start and treat with systemic steroids (e.g., at least 1mg/kg/day prednisone or equivalent) for at least 14 days or until complete resolution of clinical symptoms and chest CT findings, then followed by a gradual taper over at least 4 weeks

Grade 2

- Monitor symptoms closely
- · Re-image as clinically indicated
- If worsening or no improvement in clinical or diagnostic observations in 5 days,
 - Consider increasing dose of steroids (e.g., 2 mg/kg/day prednisone or equivalent) and administration may be switched to intravenous (e.g. methylprednisolone)
 - Re-consider additional work-up for alternative etiologies as described above
 - · Escalate care as clinically indicated

Grade 3/4

- Hospitalization required
- Promptly initiate empiric high-dose methylprednisolone IV treatment (e.g., 500-1000 mg/day for 3 days), followed by at least 1.0 mg/kg/day of prednisone (or equivalent) for at least 14 days followed by a gradual taper over at least 4 weeks
- Re-image as clinically indicated
- If still no improvement within 3 to 5 days,
 - Re-consider additional work-up for alternative etiologies as described above
 - Consider other immuno-suppressants and/or treat per local practice

Toxicity Management

Li BT, et al. Article and supplementary appendix. N Engl J Med. 2021.

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Nausea and Vomiting

Nausea and Vomiting

Clinical Trials⁵ Potential Management Strategies & NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) **Prophylactic Antiemetics:** Patients are recommended to Patient Counseling¹ **Rx Options²⁻⁴** _____ receive prophylactic anti-emetic combination regimens prior to **(i**) · Eat small meals throughout the Keep a record of nausea and why (i) Breakthrough **Prophylaxis** infusion of T-DXd and on day subsequent days Wear loose and comfortable Serotonin (5-HT₃) receptor Atypical antipsychotics Avoid foods with strong smells clothing antagonists Benzodiazepines Cannabinoids Neurokinin-1 receptor • Eat food at room temperature Sit up or lie with your head raised Phenothiazines (NK1R) antagonists for one hour after eating **Persistent AR** · Sip only small amounts of liquid 5-HT₃ receptor antagonists Corticosteroids Corticosteroids during meals Oral antipsychotics T-DXd clinical trial protocol guidance GC, NSCLC, Dose Modification^{5,6} mBC **Resume Therapy⁵ Dose Interruption⁵** ◀----CRC* Do not re-escalate If resolved in \leq 7 days, For grade \geq 3 nausea: Starting Dose 5.4 mg/kg 6.4 mg/kg the T-DXd dose after maintain dose Delay dose until resolved to a dose reduction⁶ grade \leq 1 or baseline values Initial dose reduction 4.4 mg/kg 5.4 ma/ka If resolved in > 7 days, reduce dose 1 level Final dose reduction 3.2 mg/kg 4.4 mg/kg Further dose *6.4 mg/kg starting dose is an investigational dose for **Discontinue** Treatment investigational tumors reduction required

5-HT₃, 5-hydroxytryptamine (serotonin); CRC, colorectal cancer; GC, gastric cancer; mBC, metastatic breast cancer; NSCLC, non-small cell lung cancer; T-DXd, trastuzumab deruxtecan.

1. National Cancer Institute. Nutrition in Cancer Care (PDQ®)-Patient Version. Updated March 16, 2018. www.cancer.gov/about-cancer/treatment/side-effects/appetite-loss/nutrition-pdq. Accessed January 15, 2020. 2. Adapted with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) for Antiemesis V.1.2021. © 2021 National Comprehensive Cancer Network, Inc. All rights reserved. Accessed May 17, 2021. The NCCN Guidelines® and illustrations herein may not be reproduced in any form for any purpose without the express written permission of NCCN. To view the most recent and complete version of the NCCN Guidelines, go online to NCCN.org. The NCCN Guidelines are a work in progress that may be refined as often as new significant data becomes available. NCCN makes no warranties of any kind whatsoever regarding their content, use or application and disclaims any responsibility for their application or use in any way. 3. Navari RM, et al. N Engl J Med 2016; 374:1356-1367. 4. Navari RM. Biomed Res Int 2015;2015:595894. 5. Data on file. Daiichi Sankyo, Inc., Basking Ridge, NJ. 2020. 6. Trastuzumab deruxtecan Summary of Product Characteristics, January 2021.

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Permitted Therapies in

NCCN Guidelines[®] for Antiemesis: Acute and Delayed Nausea and Vomiting

National Comprehensive Cancer Network[®] (NCCN[®]) Recommended

NCCN Guidelines for Antiemesis, lists famtrastuzumab deruxtecan-nxki (ENHERTU) as a parenteral anticancer agent with *moderate emetic risk* and recommends several prophylactic antiemetic regimens to decrease potential vomiting



Moderate Emetic Risk Parenteral Anticancer Agents— Acute and Delayed Emesis Prevention^{a,b,c}

DAY 1.	Select treatment option D, E, or F	DAYS 2, 3
DAT I.	All treatment options are category	y 1 and should be started before chemotherapy ^d
 Treatment option D, use the following combination: 5-HT3 RA Dexamethasone^{e,f} 		Treatment option D: • Dexamethasone ^{e,f} OR • 5-HT3 RA monotherapy ^k : – Granisetron – Ondansetron – Dolasetron
 Treatment option E, use the following combination^e: Olanzapine^h Palonosetron Dexamethasone^{e,f} 		Treatment option E: • Olanzapine ^h
Treatment NK1 R4 5-HT3 I Dexametication 	option F, use the following combination ^g : A RA ^{i,j} ethasone ^{e,f}	Treatment option F: • Aprepitant • +/-Dexamethasone ^{e,f}

^a For details regarding recommendations and specific dosing information, please refer to the NCCN Guidelines for Antiemesis.^b Antiemetic regimens should be chosen based on the drug with the highest emetic risk as well as patient-specific risk factors. ^c With or without lorazepam 0.5–2 mg PO or IV or sublingual every 6 hours as needed days 1–4. With or without H2 blocker or proton pump inhibitor. For olanzapine-containing regimens, only use PO lorazepam if needed. ^d Category 1 recommendations indicate uniform NCCN consensus that the intervention is appropriate based on high-level evidence. ^e Emerging data and clinical practice suggest dexamethasone doses may be individualized. Higher doses may be considered, especially when an NK1 RA is not given concomitantly. Lower doses, given for shorter durations, or even elimination of dexamethasone on subsequent days (for delayed nausea and emesis prevention) may be acceptable for non-cisplatin regimens based on patient characteristics. If dexamethasone eliminated on subsequent days (for delayed nausea and emesis prevention, consider other alternative antiemetics (eg, olanzapine). ^f Use of corticosteroid premedications should be avoided with cellular therapies. ^g A 3-drug prophylactic regimen (E or F) is recommended for select patients with additional patient-related risk factors or previous treatment failure with a corticosteroid premedications. Consider this dose especially for elderly or over sedated patients. Hashimoto H, et al. Lancet Oncol 2020;21:242-249. Mukhopadhyay S, et al. Future Oncol 2021;17:2041-2056. ⁱ If netupitant/palonosetron or granisetron extended-release injection administered, or if granisetron transdermal patch applied, on day 1.

ASCO, American Society of Clinical Oncology; 5-HT₃, 5-hydroxytryptamine (serotonin); NCCN, National Comprehensive Cancer Network; NK1, neurokinin 1; RA, receptor antagonist.

Adapted with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines[®]) for Antiemesis V.2.2022. © 2022 National Comprehensive Cancer Network, Inc. All rights reserved. The NCCN Guidelines[®] and illustrations herein may not be reproduced in any form for any purpose without the express written permission of NCCN. To view the most recent and complete version of the NCCN Guidelines, go online to NCCN.org. The NCCN Guidelines are a work in progress that may be refined as often as new significant data becomes available. NCCN makes no warranties of any kind whatsoever regarding their content, use or application and disclaims any responsibility for their application or use in any way.



Anemia & Neutropenia

Anemia

Potential Management Strategies & NCCN Guidelines



AR, adverse reaction; CRC, colorectal cancer; ESA, erythropoiesis-stimulating agent; GC, gastric cancer; Hgb, hemoglobin; mBC, metastatic breast cancer; NSCLC, non-small cell lung cancer; RBC, red blood cell; T-DXd, trastuzumab deruxtecan

1. American Cancer Society website. Managing Anemia at Home. www.cancer.org/treatment/treatments-and-side-effects/physical-side-effects/low-blood-counts/managing-anemia-at-home.html. Accessed January 15, 2020. 2. Chemocare.com/chemotherapy/side-effects/low-blood-counts.aspx. Accessed January 15, 2020. 3. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) for Hematopoletic Growth Factors V.3.2021. © National Comprehensive Cancer Network, Inc. 2021. All rights reserved. Accessed May 17, 2021. To view the most recent and complete version of the guideline, go online to NCCN.org. NCCN makes no warranties of any kind whatsoever regarding their content, use or application and disclaims any responsibility for their application or use in any way. 4. Data on file. Datichi Sankyo, Inc., Basking Ridge, NJ. 2020. 5. Trastuzumab deruxtecan Summary of Product Characteristics. January 2021

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ESMO Clinical Practice Guidelines: Management of Chemotherapy-Induced Anemia in Patient with Solid or Hematological Malignancies



^aOther parameters for impaired iron status: %hypochromic cells (%HYPO)>5% and Hb content of reticulocytes (CHr)<28 pg. ^bi.v. iron given as a single dose of 1000 mg iron or an equivalent total dose in several infusions as feasible with available i.v. iron formulations.Oral iron to be considered only for patients with ferritin<30 ng/mL and non-inflammatory conditions [CRP<5 mg/L]. ^cESA dosing should follow approved labels (i.e.450 IU/week/kg body weight for epoetins alpha, beta and zeta; 6.75mg/kg body weightevery 3 weeks or 2.25mg/kg body weight weekly for darbepoetin alpha; 20 000 IU once weekly for epoetin theta which may be doubledafter 4 weeks upon insufficient response). ESA dose escalations or a change to another ESA in patients who do not respond within 4–8 weeksare not recommended; ESA should be stopped in this case.

CIA, chemotherapy-induced anemia. CRP, C-reactive protein. ESA, erythropoiesis-stimulating agent. Hb, hemogloblin. ID, iron-deficiency. i.v., intravenous. RBC, red blood cell; SF, serum ferritin. TSAT, transferrin saturation

Apro M et al. Ann Oncol. 2018; 29(4):iv96-iv110. Daiichi-Sankyo
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NCCN Guidelines for Management of (Febrile) Neutropenia

Potential Management Strategies & NCCN Guidelines



^a All recommendations are category 2A unless otherwise indicated. Based upon lower-level evidence, there is uniform NCCN consensus that the intervention is appropriate

CRC, colorectal cancer; FDA, United States Food and Drug Administration; G-CSF, Granulocyte-colony stimulating factor; GC, gastric cancer; mBC, metastatic breast cancer; NSCLC, non-small cell lung cancer; T-DXd, trastuzumab deruxtecan

1. Taplitz RA, et al. J Clin Oncol. 2018;36(14):1443-1453. 2. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines[®]) for Hematopoietic Growth Factors V.3.2021. © National Comprehensive Cancer Network, Inc. 2021. All rights reserved. Accessed August 17, 2021. To view the most recent and complete version of the guideline, go online to NCCN.org. NCCN makes no warranties of any kind whatsoever regarding their content, use or application and disclaims any responsibility for their application or use in any way. 3. Investigator's brochure for trastuzumab deruxtecan. Version 6.0. Basking Ridge, NJ: Daiichi Sankyo, Inc. Effective September 9, 2019. 4. Trastuzumab deruxtecan Summary of Product Characteristics. January 2021. 5. Data on file. Daiichi Sankyo, Inc., Basking Ridge, NJ. 2020.

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Other Warnings & Precautions: LV Dysfunction & Embryo-Fetal Toxicity

優赫得[®]凍晶注射劑 100 毫克

ENHERTU[®] 100 mg powder for concentrate for solution for infusion 衛部菌疫輪字第 001179 號 本藥限由醫師使用

特殊警語:

- 1. ENHERTU[®]不可與 trastuzumab 或 trastuzumab emtansine 相互替代。
- 2. 肺毒性:ENHERTU[®]使用經驗中曾通報間質性肺病(ILD)及肺炎 (pneumonitis)案例(含致命案例),應監測並立即調查徵兆及症狀如咳嗽、 呼吸困難、發燒及其他新發生或惡化的呼吸道症狀。如有發生第2級 以上ILD/肺炎,請永久停藥。告知病人此項風險並須立即通報症狀。
- 3. 左心室功能不全:在抗 HER2 療法中,曾觀察到左心室射出分率(LVEF) 降低的案例。應在初次施用 ENHERTU[®]之前,及在治療期間視臨床需 求定期評估 LVEF。若發生 LVEF 降低應以中斷治療進行處理。若確 認 LVEF 低於 40%,或相較於基期的絕對下降量大於 20%,應永久停 用 ENHERTU[®]。發生症狀性鬱血性心臟衰竭(CHF)的病人,應永久停 用 ENHERTU[®]。
- 4. 胚胎-胎兒毒性: 懷孕期間暴露於 ENHERTU[®]可能導致胚胎-胎兒傷害。 告知病人此項風險並須採取有效的避孕措施。

Left Ventricular Dysfunction Management

Specific Dose Modifications

LV Dysfunction Severity		Dose or schedule modification for T-DXd
LVEF > 45% and absolute decrease from baseline is 10% to 20%		Continue treatment with T-DXd
And absolute decrease from baseline is < 10%		Continue treatment with T-DXdRepeat LVEF assessment within 3 weeks
LVEF 40% to 45%	And absolute decrease from baseline is 10% to 20%	 Interrupt T-DXd Repeat LVEF assessment within 3 weeks If LVEF has not recovered to within 10% from baseline, permanently discontinue T-DXd If LVEF recovers to within 10% from baseline, resume treatment with T-DXd at the same dose
LVEF < 40% or absolute decrease from baseline is > 20%		 Interrupt T-DXd Repeat LVEF assessment within 3 weeks If LVEF of < 40% or absolute decrease from baseline of > 20% is confirmed, permanently discontinue T-DXd
Symptomatic congestive heart failure		Permanently discontinue T-DXd

LV, left ventricular; LVEF, left ventricle ejection fraction; T-DXd, trastuzumab deruxtecan. Trastuzumab deruxtecan Summary of Product Characteristics. January 2021.

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Embryo-Fetal Toxicity

Specific Patient Counseling Information

Inform female patients of the potential risk to a fetus. Advise female patients to contact their healthcare provider of a known or suspected pregnancy

Advise females of reproductive potential to use effective contraception during treatment with T-DXd and for at least 7 months after the last dose



Advise male patients with female partners of reproductive potential to use effective contraception during treatment with T-DXd and for at least 4 months after the last dose

T-DXd, trastuzumab deruxtecan. Trastuzumab deruxtecan Summary of Product Characteristics. January 2021.

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Summary

- ADCs in HER2m-mNSCLC
 - T-DM1 (Ado-Trastuzumab Emtansine)
 - T-Dxd (Lung-02, 5.4mg/kg): mPFS: 9.9 mo; DoR: 16.8 mo; mOS: 19.5mo
- ILD/pneumonitis management of ADCs treatment:
 - Early diagnosis and intervention are important to averting serious outcome

Thanks for your attention



