Applications for Community Oncology

Nurse Symposium

August 22, 2024



Nurse Symposium

Antibody Drug Conjugates



The ABCs of ADCs

A ntibody specific targeting delivers the cytotoxic payload or drug to the site of the tumor cells; increased efficacy and reduced systemic exposure and toxicity

ystander effect occurs where cells within close proximity of the targeted cancer cells are exposed to the antitumor effects of ADCs, irrespective of antigen expression



leavage of the linker occurs once internalized in the tumor cell and releases the cytotoxic payload, promoting tumor
 cell death; drug–antibody ratio (DAR), defined as the number of payload molecules that can be attached to the antibody, influences the potency and therapeutic index of ADCs



Current FDA Approved Antibody Drug Conjugates (ADCs)

- Trastuzumab emtansine (KADCYLA®)
- Trastuzumab deruxtecan (ENHERTU[®])

SOLID TUMOR ADCs

HEMATOLOGICAL

ADCs

- Enfortumab vedotin (PADCEV[®])
- Sacituzumab govitecan (TRODELVY[®])
- Mirvetuximab soravtansine-gynx (ELAHERE[™])
- Tisotumab vedotin-tftv (TIVDAK)

Breast Cancer

Non-Small Cell Lung Cancer (NSCLC)

Gastric or Gastroesophageal Junction Adenocarcinoma

Urothelial Cancer

FRα positive, platinum-resistant epithelial Ovarian, Fallopian tube, or Primary Peritoneal Cancer

Cervical Cancer

Gemtuzumab ozogamicin (MYLOTARG[®])

- Brentuximab vedotin (ADCETRIS[®])
- Inotuzumab ozogamicin (BESPONSA[®])
- Polatuzumab vedotin (POLIVY[®])
- Loncastuximab tesirine-lpyl (ZYNLONTA®)

Acute Myeloid Leukemia

classical Hodgkin lymphoma

Anaplastic Large Cell Lymphoma

Diffuse Large B-Cell Lymphoma, not otherwise specified, DLBCL arising from low-grade lymphoma, and high-grade B-cell lymphoma



ADCs: Box Warnings* and Warnings and Precautions

TIVDAK

- Severe ocular toxicitie*
- Peripheral neuropathy
- Hemorrhage
- Pneumonitis
- Severe Cutaneous Adverse
 Reactions

ENHERTU®

- Interstitial lung disease (ILD) and pneumonitis*
- Neutropenia
- Left ventricular dysfunction

PADCEV®

- Severe cutaneous adverse reactions, including Stevens-Johnson syndrome (SJS) and Toxic Epidermal Necrolysis (TEN)*
- Hyperglycemia
- Pneumonitis/Interstitial Lung
 Disease (ILD)
- Peripheral Neuropathy
- Ocular Disorders
- Infusion Site Extravasation



TRODELVY®

- Neutropenia*
- Diarrhea*
- Hypersensitivity and Infusion-related reactions
 Nausea/Vomiting

ELAHERETM • Severe ocular

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- toxicities* Pneumonitis
- Peripheral Neuropathy

KADCYLA®

- Hepatotoxicity*
- Left ventricular ejection fraction*
- Pulmonary toxicity
- Infusion-Related Reactions
 - Hemorrhage
- Thrombocytopenia
- Neurotoxicity

BESPONSA®

- Hepatotoxicity*
- Myelosuppression
- Infusion related reactions
- QT interval prolongation

MYLOTARG[®]

- Hepatotoxicity*
- Infusion related
- reactions
- Hemorrhage

ZYNLONTA®

- Effusion and Edema
- Myelosuppression
- Infections
- Cutaneous Reactions

ADCETRIS®

- Progressive multifocal leukoencephalopathy (pml)*
- Peripheral neuropathy
- Anaphylaxis and infusion reactions
- Hematologic toxicities
- Serious infections and opportunistic infections
- Tumor lysis syndrome
- Hepatotoxicity
- Pulmonary toxicity
- Serious dermatologic reactions
- Gastrointestinal complications
- Hyperglycemia

POLIVY®

- Peripheral Neuropathy
- Infusion-Related Reactions
- Myelosuppression
- Serious and Opportunistic Infections
- Progressive Multifocal Leukoencephalopathy (PML)
- Tumor Lysis Syndrome
- Hepatotoxicity

Key Studies: Antibody Drug Conjugates

DESTINY Studies: Fam-trastuzumab DXd

TROPICS Study: Sacituzumab govitecan

Patient Case Study

innovaTV 301: Tisotumab vedotin

TROPION Study: Datopotamab DXd

Patient Case Study



ADCs

Expanding anti-HER2 strategies to HER2 low and ultralow expressing mBC

HER2 IHC categories within HR+, HER2-negative (HER2-) mBC (per ASCO/CAP1)



ASCO/CAP, American Society of Clinical Oncology / College of American Pathologists; HER2, human epidermal growth factor receptor 2; HR+, hormone receptor-positive; IHC, immunohistochemistry; ISH, in situ hybridization; mBC, metastatic breast cancer; T-DXd, trastuzumab deruxtecan

Images adapted from Venetis K, et al. Front Mol Biosci. 2022;9:834651.

ASCO 2024. Abstr LBA 1000

FDA APPROVALS Fam-trastuzumab deruxtecan-nxki (Enhertu)

On January 15, 2021, the FDA approved fam-trastuzumab deruxtecan-nxki (Enhertu, Daiichi Sankyo) for adult patients with locally advanced or metastatic HER2-positive gastric or gastroesophageal (GEJ) adenocarcinoma who have received a prior trastuzumab-based regimen based on DESTINY-Gastric01.

On **May 4, 2022**, the FDA approved fam-trastuzumab deruxtecan-nxki (Enhertu, Daiichi Sankyo, Inc.) for adult patients with unresectable or metastatic **HER2-positive breast cancer** who have received a prior anti-HER2-based regimen either in the metastatic setting, or in the neoadjuvant or adjuvant setting and have developed disease recurrence during or within 6 months of completing therapy based on **DESTINY-Breast03**.

On **August 5, 2022**, the FDA approved fam-trastuzumab deruxtecan-nxki (Enhertu, Daiichi Sankyo, Inc.) for adult patients with unresectable or metastatic **HER2-low (IHC 1+ or IHC 2+/ISH-) breast cancer** who have received a prior chemotherapy in the metastatic setting or developed disease recurrence during or within six months of completing adjuvant chemotherapy based on **DESTINY-Breast04**.

On August 11, 2022, the FDA granted accelerated approval to fam-trastuzumab deruxtecan-nxki (Enhertu, Daiichi Sankyo, Inc.) for adult patients with unresectable or metastatic non-small cell lung cancer (NSCLC) whose tumors have activating human epidermal growth factor receptor 2 HER2 (ERBB2) mutations, as detected by an FDA-approved test, and who have received a prior systemic therapy based on DESTINY-Lung02.

On **April 5, 2024**, the FDA granted accelerated approval to fam-trastuzumab deruxtecan-nxki (Enhertu, Daiichi Sankyo, Inc.) 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 based on **DESTINY-PanTumor02**, **DESTINY-Lung01**, and **DESTINY-CRC02**.

DESTINY-Breast03

First presented at SABCS 2021

Study Design: Randomized Phase 3 open-label, multicenter study



*HER2 IHC3+ or IHC2+/ISH+ based on central confirmation ^Progression during or <6 months after completing adjuvant therapy involving trastuzumab and taxane

- Primary End Point: Progression Free Survival (PFS by Blinded ICR)
- Secondary Endpoints: Overall Survival, Overall Response Rate (BIDR and investigator), Duration of Response (BICR), PFS (investigator), safety

T-DXd (Enhertu) versus T-DM1 (Kadcyla): head-to-head study

Updated presented at ASCO 2024

Updated PFS after median duration of follow-up of 41 mo



Risk of progression was significantly reduced with T-DXd

DESTINY-Breast03

Updated presented at ASCO 2024

Updated efficacy and safety, after median duration of follow-up of 41 mo T-DXd vs T-DM1 in pts with HER2+ mBC treated with ≥1 prior anti-HER2 regimen



ORR: T-DXd more than doubled the response

n (%)	T-DXD n=257	T-DM1 n=261
Any drug related TEAEs	252 (98.1%)	228 (87.4%)
Drug-related grade≥3 TEAEs	125 (48.6%)	111 (42.5%)
Serious drug-related TEAEs	35 (13.6%)	20 (7.7%)
Drug-related TEAEs associated with drug interruption	113 (44.0%)	48 (18.4%)
Drug-related TEAEs associated with dose reduction	72 (28.0%)	40 (15.3%)
Drug-related TEAEs associated with discontinuation	58 (22.6%)	19 (7.3%)
Drug-related TEAEs associated with an outcome of death	0	0

Despite longer treatment duration with T-DXd, safety remains consistent and manageable, with no cumulative toxicities

DESTINY-Breast03: PRO data

First presented at ESMO Breast 2022

 Patient quality of life was assessed using EORTC QLQ-C30, EORTC QLQ-BR45, and EQ-5D-5L questionnaires

		Median (95% C	i) IDD, months			Manulu al
		T-DXd (n = 261)	T-DM1 (n = 263)	HR (95% CI)		Nominai <i>P</i> value
EORTC	Global health status/QoLª	9.7 (7.3-12.5)	8.3 (7.0-10.3)		0.88 (0.70-1.11)	0.2829
QLQ-CJU	Pain symptoms ^b	10.8 (8.3-14.0)	8.3 (6.6-9.8)	· · · · · · · · · · · · · · · · · · ·	0.75 (0.59-0.95)	0.0146
	Physical functioning ^b	16.7 (14.5-NE)	10.3 (8.3-21.0)	⊢ →→	0.77 (0.59-1.01)	0.0529
	Emotional functioning ^b	16.4 (14.1-19.9)	10.5 (9.0-13.8)		0.69 (0.53-0.89)	0.0049
	Social functioning ^b	11.1 (7.3-13.4)	9.0 (7.1-11.3)		0.90 (0.71-1.14)	0.3577
EORTC	Arm symptoms ^b	11.1 (8.5-14.8)	7.0 (5.6-9.3)		0.70 (0.55-0.89)	0.0033
QLQ-BR45	Breast symptoms ^b	26.4 (26.4-NE)	NE (NE-NE)		0.76 (0.53-1.09)	0.1329
EQ-5D-5L	VAS ^b	13.2 (10.1-15.3)	8.5 (7.3-10.4)		0.77 (0.61-0.98)	0.0354
			(Favo	0.5 1.0 rs T-DXd (log ₁₀)	1.5 2.0 Favors T-DM1	

Time to definitive deterioration of quality of life was prolonged in patients receiving T-DXd

Hospitalization-Related Endpoints

Parameter	T-DXd n = 261	T-DM1 n = 263
Subjects with hospitalization, n (%)	18 (6.9)	19 (7.2)
Median (range) time to first hospitalization ^a , days	219.5 (0-723)	60.0 (0-399)
Median (range) length of hospital stay, days	10.5 (1-181)	9.0 (2-25)
Died, n (%)	2 (0.8)	1 (0.4)
Discharged home, n (%)	15 (5.7)	16 (6.1)
Discharged to home health care, n (%)	1 (0.4)	1 (0.4)

Median time to hospitalization was more than 3 times longer in the T-DXd arm vs T-DM1 arm

ESMO Breast 2022 Abstr 1630

KEY DATA DESTINY-Breast04

First presented at ASCO 2022

Study Design: Multicenter, randomized, open-label phase III trial



Data cutoff: January 11, 2022

Primary endpoints: PFS by BICR (HR+) Key secondary endpoints: PFS by BICR (all patients); OS (HR+ and all patients)

T-DXd is the first HER2-targeted therapy to demonstrate benefit to patients with HER2-low advanced breast cancer

PFS was almost doubled with T-DXd

HR+ Patients



T-DXd (n = 331): 331 324 290 265 262 248 218 198 182 165 142 128 107 89 78 73 64 48 37 31 28 17 14 12 7 4 4 1 1 0 TPC (n = 163): 163 146 105 85 84 69 57 48 43 32 30 27 24 20 14 12 8 4 3 2 1 1 1 1 1 1 1 0

Risk of progression was significantly reduced with T-DXd

DESTINY-Breast04

Overall Safety

	Safety analysis set ^a			
n (%)	T-DXd (n = 371)	TPC (n = 172)		
Total patient-years of exposure, years ^b	283.55	63.59		
TEAEs	369 (99)	169 (98)		
Grade ≥3	195 (53)	116 (67)		
Serious TEAEs	103 (28)	43 (25)		
TEAEs associated with dose discontinuations	60 (16)	14 (8)		
TEAEs associated with dose interruptions	143 (39)	72 (42)		
TEAEs associated with dose reductions	84 (23)	66 (38)		
TEAEs associated with deaths	14 (4)	5 (3)		

T-DXd: safety remains consistent and manageable

Median treatment duration

- T-DXd: <u>8.2 months</u> (range: 0.2 33.3)
- **TPC: 3.5 months** (range: 0.3 17.6)
- Most common TEAE associated with treatment discontinuation
 - T-DXd: 8.2%, ILD/pneumonitis^c
 - TPC: 2.3%, peripheral sensory neuropathy
- Most common TEAE associated with dose reduction
 - T-DXd: 4.6%, nausea and fatigue^d
 - TPC: 14.0%, neutropenia^d
- Total on-treatment deaths^e
 - T-DXd: 3.8%
 - TPC: 4.7%

ILD, interstitial lung disease; T-DXd, trastuzumab deruxtecan; TEAE, treatment-emergent adverse event; TPC, treatment of physician's choice.

^aSafety analyses were performed in patients who received ≥1 dose of a study regimen. ^bPatient-years of exposure are the treatment duration with year as unit. ^cGrouped term. ^dFatigue includes the preferred terms fatigue, malaise, and asthenia; neutropenia included the preferred terms of neutropenia and neutrophil count decreased. ^eOn-treatment death was defined as any death that occurred from the date of the first dose to 47 days after the last dose of study drug irrespective of the cause; the TEAEs associated with deaths represent a subset of on-treatment deaths reported by the investigators as adverse events.

DESTINY-Breast04

Drug-Related TEAEs in ≥20% of Patients



T-DXd, trastuzumab deruxtecan; TEAE, treatment-emergent adverse event; TPC, treatment of physician's choice.

*This category includes the preferred terms fatigue, asthenia, and malaise.¹This category includes the preferred terms neutrophil court decreased and neutropenia. "This category includes the preferred terms hemoglobin decreased, red-cell court decreased, anemia, and hematocrit decreased."This category includes the preferred terms platelet court decreased and thrombocytopenia. "This category includes the preferred terms hemoglobin decreased, red-cell court alarine aminotransferase increased. gamma-glutamy/transferase increased, live frunction test abnormal. This category includes the preferred terms white-cell court decreased and flexible (ourt decreased).

Nausea: mostly Grade 1 or 2

Adverse Events of Special Interest

Adjudicated a	s drug-related	ILD/pneumoniti	S ^a			
n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any Grade
T-DXd (n = 371)	13 (3.5)	24 (6.5)	5 (1.3)	0	3 (0.8)	45 (12.1)
TPC (n = 172)	1 (0.6)	0	0	0	0	1 (0.6)

Left ventricular dysfunction^b

n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any Grade
Ejection fraction d	ecreased					
T-DXd (n = 371)	1 (0.3)	14 (3.8)	1 (0.3)	0	0	16 (4.3)
TPC (n = 172)	0	0	0	0	0	0
Cardiac failure ^c						
T-DXd (n = 371)	0	1 (0.3)	1 (0.3)	0	0	2 (0.5)
TPC (n = 172)	0	0	0	0	0	0

ILD, interstitial lung disease; T-DXd, trastuzumab deruxtecan; TPC, treatment of physician's choice.

*Median time to onset of ILD/pneumonitis for patients with T-DXd was 129.0 days (range, 26-710). ¹Left ventricular dysfunction was reported in a total of 17 (4.6%) patients in the T-DXd arm. One patient initially experienced ejection fraction decrease, then later developed cardiac failure. 'Both patients with cardiac failure were reported to have recovered.

Monitoring and management of ILD remains important

DESTINY-Breast06

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1:1

T-DXd is the first HER2-targeted therapy to demonstrate benefit to patients with HER2-ultralow advanced breast cancer

First presented at ASCO 2024

Study Design: randomized, multicenter, open-label Phase 3 study

Stratified by Prior CDK4/6i use (yes vs no); HER2 expression (IHC 1+ vs IHC 2+/ISH- vs IHC 0 with membrane staining); Prior taxane in the nonmetastatic setting (yes vs no)

- HR+ mBC
- HER2-low (IHC 1+ or IHC 2+/ISH-) or HER2ultralow (IHC 0 with membrane staining)
- Chemotherapy naïve in the mBC setting
- Prior lines of therapy
 - ≥2 lines of ET ± targeted therapy for mBC OR
 - 1 line for mBC AND
 - Progression ≤6 months of starting first-line ET + CDK4/6i OR
 - Recurrence ≤24 months of starting adjuvant ET
 - (HER2-Low = 713; HER2-ultralow = 153)

Primary endpoint:

- PFS (BICR) in HER2-low
- Key secondary endpoints:
- PFS (BICR) in ITT (HER2-low + ultralow), OS in HER2-low, OS in ITT (HER2-low + ultralow)

Other Endpoints:

 PFS (INV) in HER2-low, ORR (BICR/INV) and DOR (BICR/INV) in HER2-low and ITT (HER2-low + ultralow), Safety and tolerability, Patient-reported outcomes[‡]

Data Cut Off: March 18, 2024

T-DXd

5.4 mg/kg q3w

(n=436)

(*HER2-Low: n= 713*;

HER2-ultralow: n= 153)

TPC

Options: capecitabine,

nab-paclitaxel,

paclitaxel

(n=430)

Primary Endpoint: PFS (BICR) in HER2-low



Risk of progression was significantly reduced in HER2low with T-DXd

DESTINY-Breast06

Exploratory Endpoint: PFS in <u>HER2-ultralow</u>



*34.9% maturity (of total N for population) at this first interim analysis; median duration of follow up was 16.8 months BICR, blinded independent central review; CI, confidence interval; HER2, human epidermal growth factor receptor 2; OS, overal I survival; mo, months; (m)PFS, (median) progression-free survival; T-DXd, trastuzumab deruxtecan; TPC, chemotherapy treatment of physician's choice

Data Cut Off: March 18, 2024

Risk of progression was reduced with T-DXd in HER2-ultralow

	HER2-low*		ш		HER2-u	ultralow*
	T-DXd (n=359)	TPC (n=354)	T-DXd (n=436)	TPC (n=430)	T-DXd (n=76)	TPC (n=76)
Confirmed ORR, n (%)	203 (56.5)	114 (32.2)	250 (57.3)	134 (31.2)	47 (61.8)	20 (26.3)
Best overall response, n (%)						
Complete response	9 (2.5)	0	13 (3.0)	0	4 (5.3)	0
Partial response	194 (54.0)	114 (32.2)	237 (54.4)	134 (31.2)	43 (56.6)	20 (26.3)
Stable disease	125 (34.8)	170 (48.0)	148 (33.9)	212 (49.3)	22 (28.9)	42 (55.3)
Clinical benefit rate, n (%)†	275 (76.6)	190 (53.7)	334 (76.6)	223 (51.9)	58 (76.3)	33 (43.4)
Median duration of response, mo	14.1	8.6	14.3	8.6	14.3	14.1

ORR: T-DXd almost doubled the response across all groups

DESTINY-Breast06

Safety Summary	T-DXd (n=434)	TPC (n=417)
Total exposure, patient-years	438.5	263.5
Any TEAE, n (%)	429 (98.8)	397 (95.2)
Treatment-related TEAEs, n (%)	417 (96.1)	373 (89.4)
Grade ≥3	176 (40.6)	131 (31.4)
Serious TEAEs, n (%)	88 (20.3)	67 (16.1)
TEAEs associated with treatment discontinuation, n (%)	62 (14.3)	39 (9.4)
TEAEs associated with dose interruptions, n (%)	210 (48.4)	160 (38.4)
TEAEs associated with dose reductions, n (%)	107 (24.7)	161 (38.6)
TEAEs leading to death, n (%)	11 (2.5)	6 (1.4)
Treatment related (investigator assessed)	5 (1.2)	0

• Median treatment duration:

- T-DXd: 11.0 mo (range 0.4–39.6) vs TPC: 5.6 mo (range 0.1–35.9)
- Most common TEAE associated with treatment discontinuation:
 - T-DXd: 5.3%, pneumonitis vs TPC: 1.4%, peripheral sensory neuropathy
- Most common TEAE associated with dose reduction:
 - T-DXd: 4.4%, nausea vs TPC: 16.5%, PPE

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Drug-related TEAEs in \geq 20% of patients (either treatment group)



T-DXd: safety remains consistent and manageable

DESTINY-PanTumor02



Study Design: Open-label, multicenter, Phase II study

- Patients with advanced solid tumor not eligible for curative therapy
- 2L + patient population
- HER2 expression (IHC 3+ or 2+)
 - Local test or central test by HercepTest if local test not feasible (ASCO/CAP gastric cancer guidelines)*
- Prior HER2-targeting therapy allowed
- ECOG / WHO PS 0-1

*All patients centrally confirmed



ORR and DoR by HER2 Status



Analysis of ORR by investigator was performed in patients who received ≥ 1 dose of T-DXd; all patients (N = 267; including 67 patients with IHC 1+ [n = 25], IHC 0 [n = 30], or unknown IHC status [n = 12] by central testing) and patients with centrally confirmed HER2 IHC 3+ (n = 75) or IHC 2+ (n = 125) status. Analysis of DoR was performed in patients with objective response who received ≥ 1 dose of T-DXd; all patients (n = 99; including 19 patients with IHC 1+ [n = 6], IHC 0

[n = 9], or unknown IHC status [n = 4] by central testing) and patients with centrally confirmed HER2 IHC 3+ (n = 46) or IHC 2+ (n = 34) status. ^a Responses in extramammary Paget's disease, head and neck cancer, oropharyngeal neoplasm, and salivary gland cancer. ^bIncludes patients with a confirmed objective response only.

1. Meric-Bernstam F, et al. Presented at: ESMO Congress; October 20-24, 2023; Madrid, Spain. LBA34. 2. Meric-Bernstam F, et al. *J Clin Oncol.* 2023. doi:10.1200/JCO.23.02005

T-DXd: activity across all tumor types investigated Greatest benefit for tumors with IHC 3+ status

Primary endpoints: Confirmed ORR (investigator) Secondary endpoints: DOR, DCR, PFS, OS, Safety Exploratory endpoint: Subgroup analyses by HER2 status

^a Patients were eligible for either test. All patients were centrally confirmed. ^b Cohorts with no objective responses in the first 15 patients were to be closed. ^c Patients with tumors that express HER2, excluding tumors in the tumor-specific cohorts, and breast cancer, non-small cell lung cancer, gastric cancer, and colorectal cancer. ^d Investigator-assessed per Response Evaluation Criteria In Solid Tumors version 1.1.

1. Meric-Bernstam F, et al. Presented at: ESMO Congress; October 20-24, 2023; Madrid, Spain. LBA34. 2. Meric-Bernstam F, et al. *J Clin Oncol.* October 2023. Online ahead of print. doi:10.1200/JCO.23.02005 3. Hofmann M, et al. *Histopathology*. 2008;52(7):797-805.

Data cutoff : June 8, 2023

ESMO 2023. Abstr LBA34

DESTINY-PanTumor02

Safety

n (%)	All patients (N=267)
Any drug-related TEAs	226 (84.6)
Drug-related TEAEs Grade ≥3	109 (40.8)
Serious drug-related TEAEs	36 (13.5)
Drug-related TEAEs associated with dose discontinuations	23 (8.6)
Drug-related TEAEs associated with dose interruptions	54 (20.2)
Drug-related TEAEs associated with dose reductions	54 (20.2)
Drug-related TEAEs associated with death	4 (1.5)*

Drug-Related TEAEs in ≥10% of Patients



Nausea remains greatest side effect; management important to stay on treatment

Analyses included patients who received ≥ 1 dose of T-DXd (N = 267); median total treatment duration 5.6 months (range, 0.4-31.1). ^a Category includes the preferred terms fatigue, asthenia, and malaise. ^b Category includes the preferred terms neutrophil count decreased and neutropenia. ^c Category includes the preferred terms platelet count decreased and thrombocytopenia. ^d Category includes the preferred terms aspartate aminotransferase increased, alanine aminotransferase increased, gammaglutamyltransferase increased, hypertransaminasemia. ^e Category includes the preferred terms white blood cell count decreased and leukopenia.

Meric-Bernstam, et al. Presented at: ESMO Congress; October 20-24, 2023; Madrid, Spain. LBA34.

Key Studies: Antibody Drug Conjugates

DESTINY Studies: Fam-trastuzumab DXd

TROPICS Study: Sacituzumab govitecan

Patient Case Study

innovaTV 301: Tisotumab vedotin

TROPION Study: Datopotamab DXd

Patient Case Study



ADCs

FDA APPROVALS

Sacituzumab govitecan (Trodelvy)

On **April 7, 2021**, the FDA granted regular approval to sacituzumab govitecan (Trodelvy, Immunomedics Inc.) for patients with unresectable locally advanced or **metastatic triple-negative breast cancer (mTNBC)** who have received two or more prior systemic therapies, at least one of them for metastatic disease (Previously received accelerated approval April 2020) based on the **ASCENT** trial.

On **April 13, 2021**.the FDA has granted accelerated approval of Trodelvy (sacituzumab govitecan-hziy) for use in adult patients with **locally advanced or metastatic urothelial cancer (UC)** who have previously received a platinum-containing chemotherapy and either a programmed death receptor-1 (PD-1) or a programmed death-ligand 1 (PD-L1) inhibitor based on the **TROPHY** trial.

On **February 3, 2023**, the FDA approved sacituzumab govitecan-hziy (Trodelvy, Gilead Sciences, Inc.) for patients with unresectable **locally advanced or metastatic hormone receptor (HR)-positive HER2-negative (IHC 0, IHC 1+ or IHC 2+/ISH-) breast cancer** who have received endocrine-based therapy and at least two additional systemic therapies in the metastatic setting based on **TROPICS-02** trial.

TROPiCS-02

First presented at ASCO 2022

Study Design: Randomized, multicenter, open-label phase III study

Stratification by visceral metastases (yes vs no), ET in metastatic setting ≥6 mo (yes vs no), prior lines of chemotherapy (2 vs 3/4)

- Metastatic or locally recurrent, inoperable HR+/HER2-breast cancer with disease progression
- At least 1 ET, taxane, and CDK4/6 inhibitor in any setting
- 2-4 previous lines of CT for metastatic disease (neo/adjuvant therapy qualified as a prior line of CT if disease recurred within 12 mo)
- Measurable disease by RECIST v1.1 (N = 543)

R 10 mg/kg IV Days 1 and 8, every 21 days (n = 272) Until PD or unacceptable toxicity Physician's Choice of Treatment* (*Capecitabine, vinorelbine, gemcitabine, or eribulin) (n = 271)

Sacituzumab Govitecan

Primary endpoint: PFS (BICR) Secondary endpoints: OS, ORR, DoR, CBR (by LIR and BICR), PRO, safety

Classically defined HR+/HER2-negative; heavily pretreated



BICR Analysis	Sacituzumab Govitecan (n = 272)	Physician's Choice (n = 271)
 Median PFS, mo (95% CI) Stratified hazard ratio (95% CI) Stratified log-rank P value 	5.5 (4.2-7.0) 0.66 (0.1 0.0	4.0 (3.1-4.4) 53-0.83) 003
6-mo PFS, % (95% Cl)	46.1 (39.4-52.6)	30.3 (23.6-37.3)
9-mo PFS, % (95% Cl)	32.5 (25.9-39.2)	17.3 (11.5-24.2)
12-mo PFS, % (95% CI)	21.3 (15.2-28.1)	7.1 (2.8-13.9)

Statistically significant but modest clinical benefit

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ASCO 2022. Abstr LBA1001.

TROPiCS-02

Safety: Treatment-related AEs – All Grade and Grade ≥3

TRAEs, n (%)	Sacituzuma	b Govitecan	Physician's Choice		
	(n =	268)	(n = 249)		
	All Grade Grade ≥3		All Grade	Grade ≥3	
Hematologic					
 Neutropenia Anemia Leukopenia Lymphopenia Febrile neutropenia 	188 (70)	136 <mark>(51)</mark>	134 (54)	94 (38)	
	91 (34)	17 (6)	62 (25)	8 (3)	
	37 (14)	23 (9)	23 (9)	13 (5)	
	31 (12)	10 (4)	25 (10)	8 (3)	
	14 (5)	14 (5)	11 (4)	11 (4)	
Gastrointestinal Diarrhea Nausea Vomiting Constipation Abdominal pain 	152 (57)	25 (9)	41 (16)	3 (1)	
	148 (55)	3 (1)	77 (31)	7 (3)	
	50 (19)	1 (<1)	30 (12)	4 (2)	
	49 (18)	0	36 (14)	0	
	34 (13)	2 (1)	17 (7)	0	
Other • Alopecia • Fatigue • Asthenia • Decreased appetite • Neuropathy	123 (46) 100 (37) 53 (20) 41 (15) 23 (9)	0 15 (6) 5 (2) 1 (<1) 3 (1)	41 (16) 73 (29) 37 (15) 34 (14) 38 (15)	0 6 (2) 2 (1) 1 (<1) 6 (2)	

Note: No ILD events in the SG arm vs 1% in the TPC arm; no TRAEs of cardiac failure or LV dysfunction in either arm

GI and hematologic toxicities noted

Estimates of Time to Deterioration of Global Health Status/QoL Scale



Estimates of Time to Deterioration of Fatigue Scale



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ASCO 2022. Abstr LBA1001.



Patient Case Study *Katie Alexander*

cornerstone specialty network **Cornerstone Specialty Network, LLC** Confidential – Not for Distribution



HER2-low Breast Cancer

Active 63-year-old, enjoys pickle ball, traveling, and spending time with her family

Diagnostic information: ER positive breast cancer (2007): ER+, PR+, HER2 2+, FISH nonamplified







HER2-low Breast Cancer

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On August 5, 2022, the Food and Drug Administration approved fam-trastuzumab deruxtecannxki (Enhertu) for adult patients with unresectable or metastatic HER2-low (IHC 1+ or IHC 2+/ISH-) breast cancer who have received a prior chemotherapy in the metastatic setting or developed disease recurrence during or within six months of completing adjuvant chemotherapy based on DESTINY-Breast04

Diagnostics

6/2022: Reviewed initial pathology, patient with Her2 2+ disease indicating possible role for Enhertu

Enhertu ordered as next line of therapy in light of HER2 2+ (low) and PFTs completed in 9/2022 in light of possible preparation given AE of possible associated ILD

5th line treatment

Enhertu approved, initiated on 11/16/22

Tolerating well overall, small right pleural effusion which was monitored

But course eventually complicated by nausea and erythroderma What is the best management strategy to stay on therapy?



NCCN GUIDELINES

National Comprehensive Cancer Network[®]

NCCN Guidelines Version 1.2024 Antiemesis

NCCN Guidelines Index Table of Contents Discussion

LEVEL	AGENT		
High emetic risk (>90% frequency of emesis) ^a	 AC combination defined as any chemotherapy regimen that contains an anthracycline and cyclophosphamide Carboplatin AUC ≥4 Carmustine >250 mg/m² 	 Cisplatin Cyclophosphamide >1500 mg/m² Dacarbazine Doxorubicin ≥60 mg/m² Epirubicin >90 mg/m² Fam-trastuzumab deruxtecan-nxki 	 Ifosfamide ≥2 g/m² per dose Mechlorethamine Melphalan ≥140 mg/m² Sacituzumab govitecan-hziy Streptozocin
Moderate emetic risk (>30%–90% frequency of emesis) ^a	 Aldesleukin >12–15 million IU/m² Amifostine >300 mg/m² Bendamustine Busulfan Carboplatin^b AUC <4 Carmustine^b ≤250 mg/m² Clofarabine Cyclophosphamide^b ≤1500 mg/m² Cytarabine >200 mg/m² Dactinomycin^b Daunorubicin^b 	 Dinutuximab Doxorubicin^b <60 mg/m² Dual-drug liposomal encapsulation of cytarabine and daunorubicin Epirubicin^b ≤90 mg/m² Idarubicin^b Ifosfamide^b <2 g/m² per dose Irinotecan^b Irinotecan (liposomal) Lurbinectedin 	 Melphalan <140 mg/m² Methotrexate^b ≥250 mg/m² Mirvetuximab soravtansine-gynx Naxitamab-gqgk Oxaliplatin^b Romidepsin Temozolomide Trabectedin^b

EMETOGENIC POTENTIAL OF PARENTERAL ANTICANCER AGENTS

Table framework is based on the emetogenicity classifications described in the following publications: Hesketh PJ, et al. J Clin Oncol 1997;15:103-109. Grunberg SM, et al. Support Care Cancer 2011;19:S43-S47.



Chemotherapy-induced nausea and vomiting can be classified into four subtypes:

- **1.** *Acute* CINV occurs within 24 hours of receiving chemotherapy
- **2. Delayed** CINV occurs most frequently 24 to 48 hours after chemotherapy but can occur up to 5 days post chemotherapy
- **3. Anticipatory** CINV can occur hours to days before a patient receives chemotherapy
- **4.** *Refractory CINV can occur at any point in a treatment cycle, despite adequate therapy for acute and delayed CINV*

- What is your preferred high antiemetic risk regimen?
- Prophylactic or reactive?
- Does your choice of high antiemetic risk regimen differ between agents? Between tumor types?



NCCN GUIDELINES



sive NCCN Guidelines Version 1.2024 Antiemesis

NCCN Guidelines Index Table of Contents Discussion

HIGH EMETIC RISK PARENTERAL ANTICANCER AGENTS — ACUTE AND DELAY	ED EMESIS PREVENTION ^{f,g,h,i,j}
DAY 1: Select treatment option A, B, or C	DAYS 2, 3, 4:
All treatment options are category 1 and should be started before anticancer therapy ⁿ	
Treatment option A (preferred), use the following combination ^k :	Treatment option A:
 Olanzapine 5–10 mg PO once¹ NK1 receptor antagonist (RA) (choose one): Aprepitant 125 mg PO once Aprepitant 125 mg PO once Aprepitant 125 mg IV once Netupitant 300 mg / palonosetron 0.5 mg (available as fixed combination product only) PO once Fosnetupitant 235 mg / palonosetron 0.25 mg (available as fixed combination product only) IV once Rolapitant 180 mg PO onceⁿ 5-HT3 RA (choose one)^{0,p}: Dolasetron 100 mg PO once Granisetron 10 mg subcutaneous (SQ) once,^q or 2 mg PO once, or 0.01 mg/kg (max 1 mg) IV once, or 3.1 mg/24-h transdermal patch applied 24–48 h prior to first dose of anticancer therapy Ondansetron 0.25 mg IV once Palonosetron 0.25 mg IV once 	 Olanzapine 5–10 mg PO daily on days 2, 3, 4^I Aprepitant 80 mg PO daily on days 2, 3 (if aprepitant PO is used on day 1) Dexamethasone 8 mg^{r,s} PO/IV daily on days 2, 3, 4
Treatment option B, use the following combination:	Treatment option B:
1. Olanzapine 5–10 mg PO once ^l 2. Palonosetron 0.25 mg IV once 3. Dexamethasone 12 mg PO/IV once ^{r,s}	• Olanzapine 5–10 mg PO daily on days 2, 3, 4 ^l
Treatment option C, use the following combination:	Treatment option C:
 NK1 RA (choose one): Aprepitant 125 mg PO once Aprepitant 125 mg PO once Aprepitant injectable emulsion 130 mg IV once^m Fosaprepitant 150 mg IV once Netupitant 300 mg / palonosetron 0.5 mg (available as fixed combination product only) PO once Fosnetupitant 235 mg / palonosetron 0.25 mg (available as fixed combination product only) IV once Rolapitant 180 mg PO onceⁿ 5-HT3 RA (choose one)^{o,p}: Dolasetron 100 mg PO once Granisetron 10 mg SQ once,^q or 2 mg PO once, or 0.01 mg/kg (max 1 mg) IV once, or 3.1 mg/24-h transdermal patch applied 24–48 h prior to first dose of anticancer therapy Ondansetron 16–24 mg PO once, or 8–16 mg IV once Palonosetron 0.25 mg IV once^{r,s} 	 Aprepitant 80 mg PO daily on days 2, 3 (if aprepitant PO is used on day 1) Dexamethasone 8 mg^{r,s} PO/IV daily on days 2, 3, 4
Note: All recommendations are category 2A unless otherwise indicated. Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is	especially encouraged.

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NCCN Guidelines provides antiemesis recommendations for high emetic risk anticancer agents



Bucket strategy for managing CINV with high emetic risk: Pick <u>only one drug</u> from each bucket*



*Olanzapine is an atypical antipsychotic agent of the thiobenzodiazepine class that has the ability to block many different receptors, which explains its antiemetic properties. Olanzapine targets dopaminergic (D1, D2, D3, D4), serotonergic (5-HT2A, 5-HT2C, 5-HT3, 5-HT6), adrenergic (á1), histaminergic (H1), and muscarinic (m1, m2, m3, m4) receptors. Olanzapine has a benefit over combination CINV regimens in that it can target multiple key receptors with one medication. J Adv Pract Oncol. 2014 Jan-Feb; 5(1): 24–29.

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specialty network



HER2-low Breast Cancer

Active 63-year-old, enjoys pickle ball, traveling, and spending time with her family

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On August 5, 2022, the Food and Drug Administration approved **fam-trastuzumab** deruxtecan-nxki (Enhertu) for adult patients with unresectable or metastatic HER2-low (IHC 1+ or IHC **2+/ISH-)** breast cancer who have received a prior chemotherapy in the metastatic setting or developed disease recurrence during or within six months of completing adjuvant chemotherapy based on **DESTINY-Breast04**

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5th line treatment

Enhertu approved, initiated on 11/16/22

Tolerating well overall, small right pleural effusion which was monitored

But course eventually complicated by nausea and erythroderma

Side effect management

Nausea managed by Palonsetron pre-medications with treatment.

Alternating of Zofran and Compazine OP with minimal control. Addition of Zyprexa with significant improvement.

Continue CT monitoring, clinical monitoring for AE and pulmonary decline



Fam-trastuzumab deruxtecan

Sacituzumab govitecan

Premedication is recommended prior to infusion of famtrastuzumab deruxtecan-nxki (ENHERTU)

Treatment option	Day 1	Days 2, 3, and 4
A (Preferred) ^e	Use the following: • Olanzapine ^f • NK1 RA • 5-HT3 RA ^{g,h} • Dexamethasone ^{i,j}	Use the following: • Olanzapine ^f on days 2-4 • Oral aprepitant on days 2-3 (if oral aprepitant is used on day 1) • Dexamethasone ^{i,j} on days 2-4
В	Use the following: • Olanzapine ^f • Palonosetron • Dexamethasone ^{i,j}	Use the following: • Olanzapine ^r on days 2-4
C	Use the following: • NK1 RA • 5-HT3 RA ^{g,h} • Dexamethasone ^{i,j}	Use the following: • Oral aprepitant on days 2-3 (if oral aprepitant is used on day 1) • Dexamethasone ^{i,j} on days 2-4

Premedication recommended prior to each dose of TRODELVY for the following¹:

To prevent chemotherapyinduced nausea and vomiting (CINV), premedicate with:

5-HT3 receptor antagonist OR

NK₁ receptor antagonist

Other drugs as indicated

Dexamethasone AND

premedicate with:

- Antipyretics
 - H1 and H2 blockers
 - Corticosteroids (for patients with a prior infusion reaction)

To prevent infusion reactions,

- In patients with a prior excessive cholinergic reaction,* premedicate with:
- Atropine or other appropriate premedication

Medications and emergency equipment to treat infusion-related reactions including anaphylaxis should be available for immediate use.¹

*Eg, abdominal cramping, diarrhea, salivation, etc.¹

enhertu-therapy-management-guide.pdf
(enhertuhcp.com)



TRODELVY[®] (sacituzumab govitecan-hziy) | Resources for nurses (trodelvyhcp.com)



Key Studies: Antibody Drug Conjugates

DESTINY Studies: Fam-trastuzumab DXd

TROPICS Study: Sacituzumab govitecan

Patient Case Study

innovaTV 301 Study: Tisotumab vedotin

TROPION Study: Datopotamab DXd

Patient Case Study



ADCs

FDA APPROVALS

Tisotumab vedotin-tftv (TIVDAK)

- On April 29, 2024, the FDA granted traditional approval to tisotumab vedotin-tftv (Tivdak, Seagen Inc. [now a part of Pfizer Inc.]) for recurrent or metastatic cervical cancer with disease progression on or after chemotherapy based on the innovaTV 301 trial.
 - Tisotumab vedotin-tftv previously received accelerated approval for this indication on September 20, 2021.

KEY DATA

innovaTV 301

A Global, Randomized, Open-Label, Phase 3 Study of Tisotumab Vedotin vs Investigator's Choice of Chemotherapy in 2L or 3L Recurrent or Metastatic Cervical Cancer



Primary Endpoint • OS Key Secondary Endpoints • PFSc • ORRc • Safety



innovaTV 301

Primary Endpoint: OS



^aThe threshold for statistical significance is 0.0226 (2-sided), based on the actual number of OS events at interim analysis.

Secondary Endpoint: PFS



^aThe threshold for statistical significance is 0.0453 (2-sided), based on the actual number of PFS events at interim analysis.

In patients with recurrent cervical cancer, second- or third-line treatment with tisotumab vedotin resulted in greater efficacy than chemotherapy

innovaTV 301: A Randomized, Open-Label, Phase 3 Trial

A Global, Randomized, Open-Label, Phase 3 Study of Tisotumab Vedotin vs Investigator's Choice of Chemotherapy in 2L or 3L Recurrent or Metastatic Cervical Cancer

Most Common Treatment-Related Adverse Events



- Grade 5 TRAEs occurred in 2 (0.8%) and 1 (0.4%) patients in the tisotumab vedotin and IC chemotherapy arms, respectively^b
- Median relative dose intensity was 96.1% and 90.0% in the tisotumab vedotin and IC chemotherapy arms, respectively

^aTRAEs listed are those occurring in ≥15% of patients on either arm; ^bGrade 5 TRAEs included acute kidney injury (n=1) and Stevens-Johnson syndrome (n=1) in the tisotumab vedotin arm and pancytopenia (n=1) in the IC chemotherapy arm.

Tisotumab vedotin (Tivdak) can result in some unique adverse events but most are mild
innovaTV 301: A Randomized, Open-Label, Phase 3 Trial

A Global, Randomized, Open-Label, Phase 3 Study of Tisotumab Vedotin vs Investigator's Choice of Chemotherapy in 2L or 3L Recurrent or Metastatic Cervical Cancer



AESI, adverse event of special interest ^aTreatment-related AESIs

- There were no grade 4 or 5 AESIs
- Dose discontinuation due to ocular and peripheral neuropathy events occurred in 5.6% of patients for each

Three most common preferred terms for each AESI				
Ocular	Conjunctivitis (30.4%), keratitis (15.6%), dry eye (13.2%)			
Peripheral neuropathy	Peripheral sensory neuropathy (26.8%), paresthesia (2.8%), muscular weakness (2.4%), peripheral sensorimotor neuropathy (2.4%)			
Bleeding	Epistaxis (22.8%), hematuria (3.2%), vaginal hemorrhage (3.2%)			

Ocular toxicities can be challenging; monitoring and management required

UNDER FDA REVIEW

Datopotamab deruxtecan

Datopotamab deruxtecan (Dato-DXd) Biologics License Application (BLA) has been accepted in the U.S. for:

- the treatment of adult patients with locally advanced or metastatic nonsquamous non-small cell lung cancer (NSCLC) who have received prior systemic therapy
- the treatment of adult patients with unresectable or metastatic HR–positive, HER2-negative breast cancer who have received prior systemic therapy for unresectable or metastatic disease

Not yet approved

KEY DATA

TROPION-Breast01





TROPION-Breast01

Efficacy



	Dato-DXd	ICC
Median PFS, months (95% CI)	6.9 (5.7-7.4)	4.9 (4.2-5.5)
Hazard ratio (95% CI)	0.63 (0.52	2-0.76)
P value	<0.00	01

ICC = investigator choice of single agent chemo

%	40 -	ORR 36.4%	Complete response (0.5%) Partial response
, °	35 -		
suo	30 -		ORR
esp	25 -		22.9%
thre	20 -		
Ň	15 -		
ente	10 -		
Datie	5 -		
-	0		
		Dato-DXd (n=365)	ICC (n=367)

Dato-DXd improved efficacy for patients with HRpositive/HER2-negative disease previously treated with 1-2 lines of chemotherapy compared to ICC

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TROPION-Breast01

Overall Safety

TRAEs, n (%)	Dato-DXd (n=360)	ICC (n=351)
All grades Grade ≥3	337 (94) 75 (21)	303 (86) 157 (45)
Associated with dose reduction	75 (21)	106 (30)
Associated with dose interruption	43 (12)	86 (25)
Associated with discontinuation	9 (3)	9 (3)
Associated with death	0	1 (0.3)
Serious TRAEs Grade ≥3	21 (6) 17 (5)	32 (9) 31 (8)

Median treatment duration was 6.7 mo with Dato-DXd and 4.1 mo with ICC

Rate of grade ≥3 TRAEs in the Dato-DXd group was less than in the ICC group; Fewer TRAEs leading to dose reductions or dose interruptions with Dato-DXd compared with ICC

TRAEs Occurring in ≥15% of Patients

		Dato-DXd (n=360)		ICC (n=351)	
System Preferre	Organ Class ed term, n (%	Any Grade	Grade ≥3	Any Grade	Grade ≥3
Blood and lyn	nphatics				
System	Anemia Neutropenia ^a	40 (11) 39 (11)	4 (1) 4 (1)	69 (20) 149 (42)	7 (2) 108 (31)
Eye disorders	Dry eye	78 (22)	2 (1)	27 (8)	0 (0)
Gastrointestir	nal				
	Nausea Stomatitis Vomiting Constipation	184 (51) 180 (50) 71 (20) 65 (18)	5 (1) 23 (6) 4 (1) 0 (0)	83 (24) 46 (13) 27 (8) 32 (9)	2 (1) 9 (3) 2 (1) 0 (0)
General	Fatigue	85 (24)	6 (2)	64 (18)	7 (2)
Skin and subo	cutaneous Alopecia	131 (36)	0 (0)	72 (21)	0 (0)

Eye disorders as well as gastrointestinal side effects with Dato-DXd noted; monitoring and management required

KEY DATA

TROPION-Breast01: Dato-DXd vs chemotherapy in pts with HR+, HER2- mBC treated with 1-2 prior lines of chemotherapy

PRO data (median TTD for several parameters)



ASCO 2024. Abstr. 1025

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TTD = time to deterioration

KEY DATA

TROPION-Breast01

PRO details of 2 specific side effects: mouth sores and numbness/tingling



PRO data further support Dato-DXd as a potential treatment option for patients with HR+, HER2- mBC; after chemo

Patient Case Study

Erica Deenihan

cornerstone

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Cervical Cancer

Active 50-year-old, working mother of 2 teenage kids

Diagnostic information: Initially likely stage IIIC disease with LN involvement on PET and MRI (2020)





NCCN GUIDELINES

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sive NCCN Guidelines Version 3.2024 Cervical Cancer NCCN Guidelines Index Table of Contents Discussion

SYSTEMIC THERAPY FOR CERVICAL CANCER^a

Squamous Cell Carcinoma, Adenocarcinoma, or Adenosquamous Carcinoma			
Chemoradiation ^b	Recurrent or Metastatic Disease		
	First-line Therapy ^{b,f}	Second-line or Subsequent Therapy	
Preferred Regimens • Cisplatin ^{c,d,1} • Carboplatin if patient is cisplatin intolerant ^{c,d} <u>Other Recommended Regimens^e (if cisplatin and carboplatin are unavailable) • Capecitabine/ mitomycin² • Gemcitabine³ • Paclitaxel^{4,5}</u>	First-line Therapy ^{b,t} Preferred Regimens • PD-L1-positive tumors • Pembrolizumab + cisplatin/paclitaxel ± bevacizumab (category 1) ^{d,g,h,i,6} • Pembrolizumab + carboplatin/paclitaxel ± bevacizumab (category 1) ^{d,g,h,i,6} • Cisplatin/paclitaxel/bevacizumab ^{d,g,7} (category 1) • Carboplatin/paclitaxel/bevacizumab ^{d,g} Other Recommended Regimens • Cisplatin/paclitaxel (category 1) ^{8,9} • Carboplatin/paclitaxel ^{10,11} (category 1 for patients who have received prior cisplatin therapy) • Topotecan/paclitaxel ¹² • Cisplatin/topotecan ¹² • Cisplatin ⁹ • Carboplatin ^{13,14}	Second-line or Subsequent Therapy ¹ Preferred Regimens • Pembrolizumab for TMB-H tumors ^{h,k} or PD-L1-positive ¹ or MSI-H/dMMR tumors ^{h,15} • Tisotumab vedotin-tftv ¹⁶ • Cemiplimab ^{h,17} Other Recommended Regimens • Bevacizumab ⁹ • Paclitaxel ^{14,18} • Albumin-bound paclitaxel • Docetaxel • Fluorouracil • Gemcitabine • Pemetrexed • Topotecan • Vinorelbine • Irinotecan Useful in Certain Circumstances • PD-L1-positive tumors • Nivolumab ^{h,i,19} • HER2-positive tumors (IHC 3+ or 2+) • Fam-trastuzumab deruxtecan-nxki ²⁰ • RET gene fusion-positive tumors • Selpercatinib • <i>NTRK</i> gene fusion-positive tumors • Larotrectinib	

NCCN Guidelines preferred recommendations for second-line or subsequent therapy All recommendations are category

2A unless otherwise indicated

Note: Cemiplimab is not yet FDA approved for cervical cancer

TIVDAK[®] (tisotumab vedotin-tftv)

Patient discussion on adverse events associated with treatment:

- hemoglobin decreased
- fatigue
- lymphocytes decreased
- nausea
- peripheral neuropathy
- alopecia
- epistaxis
- conjunctival adverse reactions
- hemorrhage
- leukocytes decreased
- creatinine increased
- dry eye
- prothrombin international normalized ratio increased
- activated partial thromboplastin time prolonged
- diarrhea
- rash

Product labeling includes a boxed warning for ocular toxicity.

WARNING: OCULAR TOXICITY

See full prescribing information for complete boxed warning.

- TIVDAK can cause severe ocular toxicities resulting in changes in vision, including severe vision loss and corneal ulceration. (5.1)
- Conduct an ophthalmic exam, including an assessment of ocular symptoms, visual acuity, and slit lamp exam of the anterior segment of the eye prior to initiation of TIVDAK, prior to every cycle for the first nine cycles, and as clinically indicated. (2.2, 5.1)
- Adhere to the required premedication and eye care before, during, and after infusion. (2.2)
- Withhold TIVDAK until improvement and resume, reduce the dose, or permanently discontinue, based on severity. (2.3, 5.1)



- Establish optometrist/optho for supportive management while on tx
- Educate/initiate appropriate eye care





Cervical Cancer

Active 50-year-old, working, mother of 2 kids

Diagnostic information: Initially likely stage IIIC disease with LN involvement on PET and MRI (2020)





TIVDAK[®] (tisotumab vedotin-tftv)

Monitor for new or worsening ocular signs and symptom, including but not limited to:

- Dry eyes
- Eye redness
- Eye irritation
- Light sensitivity
- Blurred vision
- Vision loss or impairment

TivdakHCP_Eye_Care_Provider_Guide.pdf





Before infusion:

 Referral to optometrist or ophthalmologist prior to initiation of TIVDAK and prior to every cycle for the first 9 cycles, and as clinically indicated and prescribe eye drops [Corticosteroid eye drops, Vasoconstrictor eye drops, Lubricating eye drops (over the counter)]

Prior to infusion:

- The care team should instruct the patient to apply corticosteroid drops (1 drop per eye, or as prescribed)
- The care team should instruct the patient to apply vasoconstrictor drops immediately prior to the infusion (3 drops per eye, or as prescribed)
- After administration of eye drops, the care team may assist the patient in placing cold packs over the eye area ~10 minutes prior to the infusion, during the infusion, and for 20 minutes after, keeping the eye area cool for a total of 60 minutes



After infusion:

- Patient will continue applying corticosteroid drops (1 drop per eye) two more times throughout the infusion day, or as prescribed
- Days 2-3: Patient will apply corticosteroid drops (1 drop per eye) three times per day, or as prescribed

Throughout treatment:

- The care team should proactively monitor for new or worsening ocular adverse reactions throughout treatment with Tivdak, and encourage patient to check their eyes daily and report any symptoms
- Patient should apply lubricating drops as needed for the duration of therapy and for 30 days after the last dose of Tivdak
- Patient should avoid contact lenses and eye irritants throughout treatment with Tivdak unless directed otherwise

The Eve Drop Schedule

tivdak. tisotumab vedotin-tftv for injection 40 mg

Tivdak Required Eye Care^{1,2}

DURING AND AFTER INFUSION

Day 1: Infusion Day (once every 3 weeks) Vasoconstrictor Cold Packs Corticosteroid Eye Drops Pre-Infusion Rotate as Eye Drops 3 drops per eye * needed to keep (~10 min prior) 1 drop per eye immediately eye area cool for or as prescribed prior to infusion 60 minutes total or as prescribed Infusion Cold Packs During * Ê 2.0-mg/kg Rotate as needed Infusion to keep eye area cool intravenous (~30 min) infusion for 60 minutes total After Cold Packs Infusion * Rotate as needed to keep eye area cool for 60 minutes total (~20 min) **Corticosteroid Eye Drops** Remainder 1 drop per eye 2x throughout the remainder of the day or as prescribed of Dav (Instruct patients to self-administer)



tisotumab vedotin-tftv for injection 40 mg

Apply cold packs fully over the eye and nose area following administration of the vasoconstrictor drops and to leave on during infusion, changing as needed to ensure maximum coldness

> Ensure proper optho follow ups after each administration

> > 3

Eye Care

checklist in support <u>kit</u>

TivdakHCP Dosing Administration and Eye Care Guide.pdf





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Tivdak[®] Required Eye Care^{1,2}

DURING AND AFTER INFUSION (CONTINUED)

Nurse Symposium

Antibody Drug Conjugates

Bispecific Antibodies



ADCs versus Bispecific antibodies

Antibody-drug conjugates (ADCs) and bispecific antibodies (BsAbs) are both targeted cancer therapies, but they operate through different mechanisms

 ADCs consist of an antibody linked to a cytotoxic drug, which is delivered directly to cancer cells

• ADCs deliver toxic payloads directly to cancer cells

- Bispecific antibodies simultaneously bind to two different antigens, triggering immune responses against cancer cells
- Bispecific antibodies engage the immune system to target and kill tumor cells

Bispecific Antibodies



- 1. Complexity and novelty
- 2. Limited clinical experience
- 3. Treatment-related toxicities
- 4. Transition from in-patient to out-patient setting

What are ways to best integrate bispecifics into community practice?



Bispecific (BsAbs) Antibodies and CAR T-Cell Therapy





The Specifics of Bispecific Antibodies (BsABs)

)

ispecific antibodies (BsAbs) have two distinct binding domains that can bind to two antigens or two epitopes (an antigen part) present on cancer cells and T cells simultaneously



ntibody-dependent cellular cytotoxicity (ADCC) is central to the immune response to cancer cells. In this process, antibodies bound to antigens on the surface of cancerous cells recruit and activate effector immune cells, such as natural killer cells, for tumor recognition and elimination



ispecific antibodies recruit T cells by binding CD3 to cancer cells, leading to the secretion of cytokines, granzyme, perforin and ultimately leading to the killing of cancer cells





Bispecifics: Developmental Timeline in Oncology



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Bispecifics: Box Warnings* and Warnings and Precautions

BLINCYTO

- Cytokine Release Syndrome (CRS)*
- Neurological toxicities
- Infections •
- Effects on Ability to Drive and Use Machines
- Pancreatitis

KIMMTRAK

- Cytokine Release Syndrome (CRS)*
- Skin reactions
- Elevated liver enzymes

RYBREVANT

- Infusion-Related Reactions (IRR)
- Interstitial Lung Disease (ILD)/Pneumonitis
- Dermatologic Adverse Reactions
- Ocular Toxicity



TECVAYLI

- Cytokine release syndrome (CRS)*
- Neurologic toxicity (ICANS)*
- Hepatotoxicity
- Infections
- Neutropenia
- Hypersensitivity and other administration reactions

LUNSUMIO Cytokine release syndrome (CRS)* Neurologic

Toxicity Infections

•

- Cytopenias
- **Tumor Flare**

- COLUMVI
- Cytokine Release Syndrome (CRS)*
- Neurologic Toxicity
- Serious Infections
- Tumor Flare

TALVEY

- Cytokine release
- syndrome (CRS)*
- Neurologic toxicity (ICANS)*
- Oral Toxicity and
- Weight Loss
- Infections
- Cytopenias
- Skin Toxicity
- Hepatotoxicity

IMDELLTRA

- Cytokine release syndrome (CRS)*
- **Neurologic toxicity (ICANS)***
- Cytopenias
- Infections
- Hepatotoxicity
- Hypersensitivity

ELREXFIO

- Cytokine release syndrome (CRS))*
- **Neurologic toxicity** (ICANS)*
- Infections
- Neutropenia
- Hepatotoxicity

EPKINLY

- Cytokine release syndrome (CRS)*
- Neurologic toxicity (ICANS)*
- Infections
- Cytopenias

Bispecific Antibodies



- 1. Complexity and novelty
- 2. Limited clinical experience
- 3. Treatment-related toxicities
- 4. Transition from in-patient to out-patient setting

What are ways to best integrate bispecifics into community practice?



Treatment associated cytokine release syndrome (CRS) and neurotoxicity (ICANS*)



June et al., Science. 2018 Mar 23;359(6382):1361-1365.

BsAbs have a relatively short half-life (compared to CAR T-cell therapy) and need to be administered repeatedly

Side effects tend to resolve quickly with BsAbs, which is beneficial in managing the overall treatment process. This rapid resolution of side effects is likely due to the short half-life of BsAbs, allowing for quick clearance from the body



*ICANS: immune effector cell-associated neurotoxicity syndrome

Bispecific Antibody (BsAb) Management





Consensus Recommendations on the Management of Toxicity Associated with CD3xCD20 Bispecific Antibody Therapy Blood. 2024 Jan 22:blood.2023022432. doi: 10.1182/blood.2023022432. Online ahead of print. © 2024 Cornerstone Specialty Network. All rights reserved

ASTCT CRS Consensus Grading

CRS Parameter	Grade 1	Grade 2	Grade 3	Grade 4
Fever	Temperature ≥ 38°C	Temperature ≥ 38°C	Temperature ≥ 38°C	Temperature ≥ 38°C
			With	
Hypotension	None	Not requiring vasopressors	Requiring a vasopressor with or without vasopressin	Requiring multiple vasopressors (excluding vasopressin)
			And/or	
Нурохіа	None	Requiring low-flow nasal cannulaz or blow-by	Requiring high-flow nasal can nulaz, facemask, nonrebreather mask, or Venturi mask	Requiring positive pressure (e.g., CPAP, BiPAP, intubation and mechanical ventilation)
			Steroids	
Premedication reduces CRS rates	gan toxicities associated with CR	S may be graded according to CTC	Tocilizuma	b CRS grading.

Incidence of CRS with teclistamab in MajesTEC-1 over time by grade

EXAMPLE:

Overall incidence of CRS with teclistamab in MajesTEC-1 for R/R Multiple Myeloma

- CRS occurred in 72.1% of patients (N=119/165) with the majority being:
 - Grade 1 (50.3%)
 - Grade 2 (21.2%)
- Most CRS occurred after:
 - Step-up dose 1 43.6%
 - Step-up dose 2 35.2%
 - Cycle 1 Day 1 24.2%
 - Cycle 1 Day 8 4.8%
 - Cycle 1 Day 15 2.4%
 - Cycle 2+ 3.6%
- Only 1 percent of patients experienced CRS in subsequent cycles



FIGURE 1 Incidence of CRS with teclistamab in MajesTEC-1 over time by grade. CRS was graded according to American Society for Transplantation and Cellular Therapy criteria.⁶ If a patient had more than one event at a time point, the maximum grade is used. Repeat step-up before C1 is not displayed. One patient had a grade 1 CRS event after a repeat step-up dose before C1. No patients discontinued the study due to a CRS event. C indicates cycle; CRS, cytokine release syndrome; D, day; Disc, discontinued; PD, priming (step-up) dose.

Cancer. 2023;129:2035-2046.

Key points for CRS

The **NCCN** Guidelines for the Management of Immunotherapy-**Related** Toxicities includes a section on **CRS** for patients treated with CAR Tcell therapy but does not include a <u>section on CRS for</u> patients treated with bispecific antibodies



Definition: CRS is an acute systemic inflammatory syndrome characterized by fever and organ dysfunction

Symptoms: fever (required) with possible hypoxia, hypotension, tachypnea, nausea, headache, fatigue, myalgias, or malaise

- Educate staff and develop toxicity management protocols
- In-person evaluation
- Consider daily dexamethasone for Grade 1; Ensure tocilizumab is available
- Early tocilizumab after trial of dexamethasone should be considered for patients with multiple medical risk factors (e.g., comorbidities)
- Grade 2 and beyond: inpatient management recommended
- Ensure emergency department staff and hospitalists are aware that an on-call physician is available to help manage any patient who may present with CRS

Educate patients and their caregivers about signs and symptoms of CRS

Consensus Recommendations on the Management of Toxicity Associated with CD3xCD20 Bispecific Antibody Therapy Blood. 2024 Jan 22:blood.2023022432. doi: 10.1182/blood.2023022432. Online ahead of print.

ASTCT ICANS Consensus Grading

Neurotoxicity Domain	Grade 1	Grade 2	Grade 3	Grade 4
ICE score	7-9	3-6	0-2	0 (patient is unarousable and unable to perform ICE)
Depressed level of consciousness	Awakens spontaneously	Awakens to voice	Awakens only to tactile stimulus	Patient is unarousable or requires vigorous or repetitive tactile stimuli to arouse. Stupor or coma
Seizure	N/A	N/A	Any clinical seizure focal or gen eralized that resolves rapidly or nonconvulsive seizures on EEG that resolve with intervention	Life-threatening prolonged seizure (>5 min); or Repetitive clinical or electrical seizures without return to baseline in between
Motor findings	N/A	N/A	N/A	Deep focal motor weakness such as hemiparesis or paraparesis
Elevated ICP/ cerebral edema	N/A	N/A	Focal/local edema on neuroimaging	Diffuse cerebral edema on neuroimaging; decerbrate or decorticate posturing; or cranial nerve VI palsy; or papilledema; or Cushing's triad

ICANS grade is determined by the most severe event

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Steroids

Tocilizumab / Anakinra

Consensus Recommendations on the Management of Toxicity Associated with CD3xCD20 Bispecific Antibody Therapy Blood. 2024 Jan 22:blood.2023022432. doi: 10.1182/blood.2023022432. Online ahead of print.

Incidence of CRS and ICANS with tarlatamab over time by grade: DeLLphi-301



Tarlatamab 100 mg

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- CRS was largely confined to the first or second dose (C1D1 or C1D8), primarily grade 1–2
- ICANS* occurred infrequently overall and was predominantly observed with tarlatamab 100 mg

CRS interventions:

Patients receiving tarlatamab, n (%)	10 mg (n = 133)	100 mg (n = 87)
Tocilizumab	7 (5)	9 (10)
Supplemental oxygen	11 (8)	8 (9)
Vasopressor support	1 (1)	1 (1)

The **NCCN Guidelines** for the Management of Immunotherapy-**Related Toxicities** includes a section on **neurotoxicity** for patients treated with CAR T-cell therapy but does *not* include a section on *neurotoxicity for* patients treated with bispecific antibodies

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Key points for ICANS

Definition: neurological AEs after BsAb therapy most frequently consist of headache and dizziness; occasionally, ICANS-like symptoms occur; these may or may not accompany CRS

Symptoms: delirium, dysgraphia, tremor, lethargy, difficulty concentrating, agitation, confusion, expressive aphasia, apraxia, depressed level of consciousness, encephalopathy, and seizures

- Early intervention is critical to be able to give the next dose
- Perform ICE score on all patients with neurologic symptoms: assess for alternate cause of symptoms; consider performing CT head, EEG, MRI, or LP, as appropriate
- Avoid concurrent medications that might cause cognitive changes
- Assess for concurrent symptoms of CRS (fever, hypoxia, and hypotension); treatment of CRS can occur concurrently if appropriate
- Grade 1: ICE 7-9 consider observation or close monitoring in outpatient setting. Can consider dexamethasone; increase the dose (dexamethasone, anakinra) if not responding
- Grade 2 and beyond: inpatient management recommended

Educate patients and their caregivers about signs and symptoms of ICANS

Consensus Recommendations on the Management of Toxicity Associated with CD3xCD20 Bispecific Antibody Therapy Blood. 2024 Jan © 2024 Cornerstone Specialty Network. All rights reserved 22:blood.2023022432. doi: 10.1182/blood.2023022432. Online ahead of print.

What resources are you currently using for bispecific patient education?

- Pharma-provided: website/printables/handouts
- NCCN Guidelines for patients
- Oncology nursing websites
- Other





Bispecific Antibodies



- **1.** Complexity and novelty
- 2. Limited clinical experience
- 3. Treatment-related toxicities
- 4. Transition from in-patient to out-patient setting

What are ways to best integrate bispecifics into community practice?



Transition from in-patient to out-patient setting

Importance of timely consultation and communication around patient urgency when transferring between community and hospital setting Establish strong relationships between HCPs working at academic and community cancer programs

- Build on existing referral pathways
- Ensure staff are familiar with referral process

Utilize online resources to help prepare/educate patients

• Provide patient information sheet

Use telehealth to provide follow-up care and monitor for symptoms

Use knowledgeable navigators (provide training) to coordinate logistics between community and academic medical centers

Checklist Prior to Starting Bispecifics



Patient Education & Caregiver: a must!

Prescription:



Dexamethasone (and acetaminophen and diphenhydramine)



Wellness Tools: Basic Thermometer, BP instrument and Pulse Oximeter



X

Clear guidance: a flowchart with vitals log



Prophylaxis: Bactrim and Acyclovir

Assess comorbidities: DM and Echo (hint: Dex and

IVF)

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Key to Success





Nurse Symposium

Antibody Drug Conjugates

Bispecific Antibodies Subcutaneous Immunotherapy



Subcutaneous formulations

Approved agents:		Subcutaneous Use For:
• Me	ethotrexate	Acute lymphoblastic leukemia
• Cla	dribine	Hairy cell leukemia
• Ale	emtuzumab	Chronic lymphocytic leukemia
• Tra	stuzumab	HER2-positive breast cancer
• Cyt	arabine	Acute myelogenous leukemia
• Aza	acitidine	Myelodysplastic syndromes
• Bo	rtezomib	Myeloma; Mantle cell lymphoma
• On	nacetaxine	Chronic myelogenous leukemia
• Ble	omycin	Germ cell testicular cancer lymphomas
• Ab	agovomab	Ovarian cancer
• Da	ratumamab	Multiple myeloma and AL amyloidosis

Marzieh M, Mostafa K, Abolghasem A, Amir Hossein S, Arasteh O, et al. Subcutaneous Administration of Anticancer Agents: A Narrative Review. Case Rep Oncol Open Access. 2023; 2(1): 1006.

Efforts are underway to develop ICI subcutaneous formulations:

Atezolizumab

Nivolumab

Pembrolizumab


KEY UPDATE

CheckMate 67T

First presented at ASCO GU 2024

Subcutaneous nivolumab (NIVO SC) vs intravenous nivolumab (NIVO IV) in patients with previously treated advanced or metastatic clear cell renal cell carcinoma (ccRCC): Pharmacokinetics (PK), efficacy, and safety results from CheckMate 67T

May 6, 2024: the FDA accepted the Biologics License Application (BLA) for the subcutaneous formulation of Opdivo[®] (nivolumab) coformulated with Halozyme's proprietary recombinant human hyaluronidase (rHuPH20) (herein referred to as " subcutaneous nivolumab") across all previously approved adult, solid tumor Opdivo indications as monotherapy, monotherapy maintenance following completion of Opdivo plus Yervoy (ipilimumab) combination therapy, or in combination with chemotherapy or cabozantinib.

The FDA assigned a Prescription Drug User Fee Act (PDUFA) goal date of **December 29, 2024**.

- First presentation of data evaluating subcutaneous nivolumab compared to its intravenous formulation
- A total of 495 pts were randomized to NIVO SC (n = 248) or NIVO IV (n = 247).
- The median age was 64/66 years in the SC/IV arms.
- Most pts were male. Average injection time with NIVO SC was < 5 minutes.

	NIVO SC	ΝΙVΟ ΙV		
C _{avgd28} , GMR (90% CI) ^a	2.098 (2.0	2.098 (2.001-2.200)		
C _{minss} , GMR (90% CI) ^a	1.774 (1.633–1.927)			
ORR by BICR, % (95% CI)	24.2 (19.0- 30.0)	18.2 (13.6- 23.6)		
ORR, relative risk ratio (95% CI) ^b	1.33 (0.94–1.87)			
Median progression-free survival by BICR, months (95% CI)	7.23 (5.13– 7.49)	5.65 (5.29– 7.39)		
ADA-positive, n/N (%)	46/202 (22.8)	15/215 (7.0)		
Safety (grade 3/4), n (%)	(N = 247)	(N = 245)		
AE	87 (35.2)	100 (40.8)		
Treatment-related AE	24 (9.7)	36 (14.7)		
Serious AE	52 (21.1)	56 (22.9)		
Treatment-related serious AE	16 (6.5)	16 (16.5)		

The co-primary PK endpoints for noninferiority testing were time-averaged serum concentration over the first 28 days (Cavgd28) and minimum serum concentration at steady state (Cminss) determined by a population PK analysis. ADA: antidrug antibodies



Subcutaneous nivolumab demonstrated noninferiority efficacy to IV nivolumab and improved safety. If approved, SC nivolumab would represent the first subcutaneous PD-1 inhibitor approved in the USA

KEY UPDATE

PALOMA-3

First presented at ASCO 2024

Subcutaneous Amivantamab vs intravenous amivantamab both in combination with Lazertinib, in refractory EGFR-mutated, advanced NSCLC: primary results, including overall survival from the global, phase 3, randomized controlled PALOMA-3 trial

	SC Amivantamab Arm (n=206)	IV Amivantamab Arm (n=212)	
ORR, % (95% CI) ^a			
All responders	30 (24–37) Relative risk, 0.92 (95%	33 (26–39) Cl, 0.70–1.23); <i>P</i> =0.001	
Confirmed responders	27 (21–33) Relative risk, 0.99 (95%	27 (21-33) Cl, 0.72-1.36); P<0.001	
Best response, n (%)			
CR	1 (0.5)	1 (0.5)	
PR	61 (30)	68 (32)	
SD	93 (45)	81 (38)	
PD	37 (18)	42 (20)	
Not evaluable	14 (7)	20 (9)	
DCR, % (95% CI) ^b	75 (69–81)	71 (64–77)	
Median time to response (range), mo	1.5 (1.2–6.9)	1.5 (1.2–9.9)	

- First presentation of data evaluating subcutaneous amivantamab compared to its intravenous formulation
- A total of 418 pts were randomized to SC AMI + LAZ (n = 206) or IV AMI + LAZ (n = 212).
- The median age was 61/62 years in the SC/IV arms.
- Most pts were male; median prior lines of therapy was 2, and 34% of patients in each arm had a history of brain metastases
- Average injection time with SC amivantamab was < 5 minutes.

IDDa all seadar		(0004		
IRRs, all grades		13%			66%	
IKKS, grade S		0.5%	%			
Infusion-related						
AEs (≥2%)			-			
Chills		6%	14%			
Pyrexia		3% 📕 3	%			
Dyspnea		3%	20%			
Nausea		3%	20%			
Vomiting		2%	15%			
Cough		2%	8%			
Hypoxia		2%	9%			
Hypotension		1%	8%			
Sinus tachycardia		2%	5%			
Erythema		1%	%			
Chest discomfort		0.5%	6%			
Hypertension		0.5%	6%			
Flushing			12%			
Dizziness		4	1%			
Rash		3	%			
Hyperhidrosis		2	%			
ncreased heart rate		29	6			
		- /		AND NO AND		
100%	75% 50%	25% 0%	25%	50% 75%		

• AEs were consistent between arms, with a 5-fold reduction in infusion-related reactions

Subcutaneous amivantamab demonstrated noninferiority efficacy to IV amivantamab and improved safety. Yet to submit regulatory application seeking the approval of SC amivantamab in the USA

