

Up Close with Epcoritamab

This section provides an overview of epcoritamab-bysp (EPKINLY®).

- Indications
- 🤌 Dosing and Administration
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- Neurotoxicity (including ICANS)
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Epcoritamab is a **bispecific CD20-directed CD3 T-cell engager** indicated for the treatment of adults with:

- 1. Diffuse large B-cell lymphoma (DLBCL) or High-grade B-cell Lymphoma
 - Relapsed or refractory DLBCL, not otherwise specified, including DLBCL arising from indolent lymphoma and high-grade B-cell lymphoma after 2 or more lines of systemic therapy.

2. Follicular Lymphoma (FL)

• Relapsed or refractory FL after 2 or more lines of systemic therapy.

Note: These indications are approved under accelerated approval based on response rate and durability of response. Continued approval may be contingent upon verification of clinical benefit in confirmatory trials.

^b Dosing and Administration



Epcoritamab is administered **subcutaneously in 28-day cycles** until disease progression or unacceptable toxicity.

- Cycle 1 is given as a **step-up dosage schedule** to reduce the incidence and severity of cytokine release syndrome (CRS). The step-up dosage schedule varies by indication, where:
 - o DLBCL or High-grade B-cell Lymphoma has 2 step-up doses
 - FL has 3 step-up doses

Epcoritamab 2-step up Dosage Schedule for Patients with DLBCL or High-grade B-cell Lymphoma				
Indication	Cycle of Treatment	Day of Treatment	Dose of Epcoritamab	
DLBCL or High- grade B-cell Lymphoma	Cycle 1	1	Step-up dose 1	0.16 mg
		8	Step-up dose 2	0.8 mg
		15	First full dose	48 mg
		22	48 mg	
	Cycle 2 and 3	1, 8, 15, and 22	48 mg	
	Cycle 4 to 9	1 and 15	48 mg	
	Cycle 10 and beyond	1	48 mg	

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Recommendations for Restarting Therapy with Epcoritamab After Dosage Delay for Patients with DLBCL or High-grade B-cell Lymphoma			
Last Dose Administered	Time Since Last Dose Administered	Action for Next Dose(s)	
0.16 mg (e.g., on Cycle 1 Day 1)	More than 8 days	Repeat Cycle 1 schedule starting at step-up dose 1 (0.16 mg). Following the repeat of Cycle 1 schedule, resume the planned treatment schedule.	
0.8 mg (e.g., on Cycle 1 Day 8)	14 days or less	Administer 48 mg, then resume the planned treatment schedule.	
	More than 14 days	Repeat Cycle 1 schedule starting at step-up dose 1 (0.16 mg). Following the repeat of Cycle 1 schedule, resume the planned treatment schedule.	
48 mg (e.g., on Cycle 1 Day 15 onwards)	6 weeks or less	Administer 48 mg, then resume the planned treatment schedule.	
	More than 6 weeks	Repeat Cycle 1 schedule starting at step-up dose 1 (0.16 mg). Following the repeat of Cycle 1 schedule, resume the planned treatment schedule.	
*Administer pretreatment medication prior to epcoritamab dose and monitor patients accordingly.			

Epcoritamab 3-step up Dosage Schedule for Patients with FL				
Indication	Cycle of Treatment	Day of Treatment	Dose of Epcoritamab	
Follicular Lymphoma	Cycle 1	1	Step-up dose 1	0.16 mg
		8	Step-up dose 2	0.8 mg
		15	First full dose	3 m
		22	First full dose	48 mg
	Cycle 2 and 3	1, 8, 15, and 22	48 mg	
	Cycle 4 to 9	1 and 15	48 mg	
	Cycle 10 and beyond	1	48 mg	

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Recommendations for Restarting Therapy with Epcoritamab After Dosage Delay for Patients with FL			
Last Dose Administered	Time Since Last Dose Administered	Action for Next Dose(s)*	
0.16 mg (e.g., on Cycle 1 Day 1)	More than 8 days	Repeat Cycle 1 schedule starting at step-up dose 1 (0.16 mg). Following the repeat of Cycle 1 schedule, resume the planned treatment schedule.	
0.8 mg (e.g., on Cycle 1 Day 8)	More than 8 days	Repeat Cycle 1 schedule starting at step-up dose 1 (0.16 mg). Following the repeat of Cycle 1 schedule, resume the planned treatment schedule.	
3 mg (e.g., on Cycle 1 Day 15)	14 days or less	Administer 48 mg, then resume the planned treatment schedule.	
	More than 14 days	Repeat Cycle 1 schedule starting at step-up dose 1 (0.16 mg). Following the repeat of Cycle 1 schedule, resume the planned treatment schedule.	
48 mg (e.g., on Cycle 1 Day 22 onwards)	6 weeks or less	Administer 48 mg, then resume the planned treatment schedule.	
	More than 6 weeks	Repeat Cycle 1 schedule starting at step-up dose 1 (0.16 mg). Following the repeat of Cycle 1 schedule, resume the planned treatment schedule.	
*Administer pretreatment medication prior to epcoritamab dose and monitor patients accordingly.			

Recommended Pre- and Post-Administration Medications				
Cycle	Patients Requiring Medications	Medication	Administration	
Cycle 1	All patients	 Dexamethasone^a (15 mg oral or intravenous) or prednisolone (100 mg oral or intravenous) or equivalent 	 30-120 minutes prior to each weekly administration of epcoritamab And for three consecutive days following each weekly administration of epcoritamab in Cycle 1 	
		 Diphenhydramine (50 mg oral or intravenous) or equivalent Acetaminophen (650 mg to 1,000 mg oral) 	30-120 minutes prior to each weekly administration of epcoritamab	
Cycle 2 and Beyond	Patients who experienced Grade 2 or 3 ^b CRS with previous dose	 Dexamethasone^a (15 mg oral or intravenous) or prednisolone (100 mg oral or intravenous) or equivalent 	 30-120 minutes prior to next administration of epcoritamab after a Grade 2 or 3b CRS event And for three consecutive days following the next administration of epcoritamab until epcoritamab is given without subsequent CRS of Grade 2 or higher 	
^a Dexamethasone is the preferred corticosteroid when available ^b Patients will be permanently discontinued from epcoritamab after Grade 4 CRS				

Due to the risk of CRS and neurotoxicity, all patients should be monitored for signs and symptoms.

- DLBCL or High-grade B-cell Lymphoma: Patients should be hospitalized for 24 hours after administration of the Cycle 1, Day 15 dosage of 48 mg.
 - Real-world application: Some sites administer all doses in the outpatient setting even the first full dose for patients with DLBCL—by ensuring systems are in place for safe observation.
- FL: Patients do NOT require hospitalization during any of the step-up doses.

Additional recommendations

- Provide *Pneumocystis jirovecii pneumonia* (PJP) prophylaxis prior to starting treatment with epcoritamab.
- Consider initiating prophylaxis against herpes virus prior to starting epcoritamab to prevent herpes zoster reactivation.
- Patients should be well hydrated.

Go deeper. For more information on dosing and administration, click here.





What is it? Cytokine release syndrome (CRS) is a systemic inflammatory response that can occur when the immune system is activated and releases large amounts of cytokines—proteins that help regulate immune responses.

- Signs and symptoms: pyrexia, hypotension, hypoxia, dyspnea, chills, and tachycardia.
- CRS is frequently graded using the <u>American Society for Transplantation and Cellular Therapy</u> (ASTCT) consensus criteria.

Why it matters. CRS occurred in ~50% of patients in the EPCORE NHL-1. Most CRS events occurred during Cycle 1, with the highest events occurring on the day of the first full 48 mg dose.

- **DLBCL or High-grade B-cell Lymphoma:** CRS occurred in **51% of patients** (37% grade 1, 17% grade 2, and 2.5% grade 3) and **recurred in 16% of patients**.
 - Most events (92%) occurred during cycle 1, with 61% occurring after the 48 mg dose on cycle 1, day 15.
- FL: CRS occurred in 49% of patients (45% grade 1, 9% grade 2) and recurred in 23% of patients.
 - Most events (88%) occurred during cycle 1, with 49% occurring after the 48 mg dose on cycle 1, day 22.

The time to onset of CRS varied by indication.

- DLBCL or High-grade B-cell Lymphoma: Median time to CRS onset across all doses was 24 hours (range: 0-10 days) post-administration.
 - First full 48 mg dose: 21 hours (range: 0-7 days) post-administration.
- FL: Median time to CRS onset across all doses was 59 hours (range: 0.1-7 days) postadministration.
 - **First full 48 mg dose:** 61 hours (range: 0.1-7 days) post-administration.

The duration of CRS was 2 days.

- DLBCL or High-grade B-cell Lymphoma: CRS lasted 2 days (range: 1-27 days).
- FL: CRS lasted 2 days (range: 1-14 days).

Concurrent neurological adverse reactions associated with CRS occurred in <5% of patients.

- **DLBCL or High-grade B-cell Lymphoma:** 2.5% of patients.
- **FL:** 4.7% of patients.

The bottom line. CRS was primarily low-grade, predictable, and manageable.

Neurotoxicity (including ICANS)



What is it? Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS) is characterized by various neurologic symptoms resulting from the activation of the immune system and the resultant inflammatory processes.

- **Signs and symptoms:** encephalopathy, headaches, seizures, aphasia, motor deficits, ataxia, and tremor.
- ICANS is frequently graded using the <u>ASTCT consensus criteria.</u>

Why it matters. ICANS occurred in 6% of patients in the EPCORE NHL-1 trial.

- **DLBCL or High-grade B-cell Lymphoma:** ICANS occurred in **6%** (4.5% grade 1, 1.3% grade 2, 0.6% fatal). Of the 10 ICANS events, 9 occurred in cycle 1 of treatment.
- **FL:** ICANS occurred in **6%** of patients **receiving the 2-step up dosage schedule** in the clinical trial (3.9% grade 1, 2.4% grade 2). **Note:** The approved dosage schedule has 3-step up doses.

The time to onset of ICANS varied by indication.

- DLBCL or High-grade B-cell Lymphoma: Median time to ICANS onset from the start of treatment was 16.5 days (range: 8-141 days).
 - Median time from the most recent administration: 3 days (range: 0-13 days).
- FL: Median time to ICANS onset from the start was 21.5 days (range: 14-66 days) post-administration.
 - **Median time from the most recent administration:** 3 days (range: 0.4-7 days) post-administration.

ICANS resolved in most cases and lasted a few days.

- **DLBCL or High-grade B-cell Lymphoma:** Resolved in **90% of cases**; duration: **4 days** (range: 0-8 days).
- FL: Resolved in 100% of cases; duration: 2 days (range: 1-7 days).

The bottom line. ICANS was uncommon and primarily low-grade.

Ker Toxicities



Epcoritamab can cause other adverse reactions such as **infections**, **cytopenias**, **and embryo-fetal toxicity**.

Why it matters. In addition to the risks of CRS and neurotoxicity (including ICANS), care teams need to be on the lookout for other **epcoritamab**-associated toxicities.

Infections. Epcoritamab can cause serious and fatal infections.

- DLBCL or High-grade B-cell Lymphoma: Serious infections reported in 15% (most common: 4.5% sepsis, 3.2% pneumonia). Fatal infections occurred in 1.3% (1.3% COVID-19).
- FL (receiving the 2-step up dosage schedule): Serious infections reported in 40% (most common: 20% COVID-19, 13% pneumonia, 3% urinary tract infections). Fatal infections occurred in 6% (5% COVID-19, 0.8% pneumonia, 0.8% sepsis).

The bottom line. Care teams should monitor patients for signs of infection before and during treatment; treat appropriately.

- Avoid administration in patients with active infections; withhold or discontinue epcoritamab based on severity.
- Provide PJP prophylaxis and consider herpes virus prophylaxis before starting epcoritamab.

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Cytopenias. Epcoritamab can cause serious or severe cytopenias.

- DLBCL or High-grade B-cell Lymphoma: Grade 3 or 4 events occurred in 32% (neutrophils decreased), 12% (hemoglobin decreased), and 12% (platelets decreased).
 Febrile neutropenia occurred in 2.5%.
- FL (based on patients receiving the 2-step up dosage schedule, not the FDA-approved 3-step up dosage schedule): Grade 3 or 4 events occurred in 30% (neutrophils decreased), 10% (hemoglobin decreased), and 8% (platelets decreased).
 - Febrile neutropenia occurred in 3.1%.

The bottom line. Care teams should monitor complete blood counts throughout treatment.

• Withhold or discontinue epcoritamab based on cytopenia severity; consider prophylactic granulocyte colony-stimulating factor.

Embryo-Fetal Toxicity. Epcoritamab may cause fetal harm when administered to a pregnant woman.

- Advise **females of reproductive potential** to use effective contraception **during treatment** and **for 4 months after the last dose**.
- Verify pregnancy status before initiating epcoritamab.

Use in Specific Populations

- Lactation: Advise women not to breastfeed during treatment and for 4 months after the last dose.
- Geriatric Use:
 - In EPCORE NHL-1, 52% of patients with relapsed/refractory FL were ≥65 years old, and 13% were ≥75 years old.
 - Higher rate of fatal adverse reactions, mainly infections, including COVID-19, in patients
 ≥65 years old compared to younger adults.
 - No overall difference in efficacy was observed.
- **Pediatric Use:** At this time, no safety and effectiveness data has been established in pediatric patients.

Updated: 5/15/25

References

- 1. <u>EPKINLY™ (epcoritamab-bysp) [package insert]</u>. Plainsboro, NJ: Genmab US, Inc.; North <u>Chicago, IL: AbbVie Inc. 2024</u>.
- 2. Lee DW, Santomasso BD, Locke FL, et al. ASTCT consensus grading for cytokine release syndrome and neurologic toxicity associated with immune effector cells. *Biol Blood Marrow Transplant.* 2019;25(4):625-638. doi:10.1016/j.bbmt.2018.12.758
- 3. <u>Linton KM, Vitolo U, Jurczak W, et al. Epcoritamab monotherapy in patients with relapsed or</u> refractory follicular lymphoma (EPCORE NHL-1): a phase 2 cohort of a single-arm, multicentre study. *Lancet Haematol.* 2024;11(8):e593-e605. doi:10.1016/S2352-3026(24)00166-2
- 4. <u>Hutchings M, Mous R, Clausen MR, et al. Dose escalation of subcutaneous epcoritamab in</u> <u>patients with relapsed or refractory B-cell non-Hodgkin lymphoma: an open-label, phase 1/2</u> <u>study. *Lancet.* 2021;398(10306):1157-1169. doi:10.1016/S0140-6736(21)00889-8.</u>

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