



Positive Quality Intervention: Epcoritamab (epcoritamab-bysp) for Relapsed/Refractory Diffuse Large B-Cell Lymphoma (DLBCL) and Follicular Lymphoma (FL)

Description: The purpose of this PQI is to discuss the clinical considerations of epcoritamab-bysp (Epcoritamab®) to optimize the outcomes for patients with relapsed/refractory (R/R) diffuse large B-cell lymphoma (DLBCL) and follicular lymphoma (FL).

Background: Epcoritamab-bysp is a subcutaneous bispecific antibody that targets CD20 on B-cells and CD3 on T-cells activating T-cell-mediated destruction of malignant B-cells.¹ It received FDA accelerated approval for the treatment of adult patients with relapsed or refractory (r/r) diffuse large B-cell lymphoma (DLBCL), high-grade B-cell lymphoma (HGBL), and follicular lymphoma (FL) after two or more lines of systemic therapy. Epcoritamab has an NCCN category 2A recommendation for the treatment of r/r DLBCL, including patients with disease progression after transplantation or CAR T-cell therapy, or r/r classic FL following two prior systemic therapies.²

The phase I/II EPCORE NHL-1 trial evaluated its efficacy in 157 patients with r/r DLBCL, including transformed indolent lymphomas and HGBLs, after at least two lines of therapy.³ The study reported an overall response rate (ORR) of 63%, with a complete response (CR) rate of 39%, while the median progression-free survival (PFS) was 4 months, and the median overall survival (OS) was not reached. In the separate FL cohort of 128 patients, epcoritamab achieved an ORR of 82% and a CR rate of 63%, with notable results across high-risk subgroups, including double-refractory disease (76% ORR).^{4,5}

Common treatment-related adverse effects included cytokine release syndrome (CRS), neurotoxicity (ICANS), and injection site reactions (57%-58%).^{1,3-5} In patients with DLBCL, any grade CRS was reported in 50% of patients (with grade 3 events at 3%), with a median time to onset of approximately 24 hours (range: 0 to 10 days), while in patients with FL, CRS occurred in 65% of patients (with grade 3 events at 2%), with a median time to onset of approximately 59 hours (range: 0.1 to 7 days). ICANS was reported in 6% of patients in both DLBCL and FL cohorts, with grade 3 events occurring in 3% of patients for both groups, and the median time to onset was approximately 16.5 days (range: 8 to 141 days) for patients with DLBCL and about 21.5 days (range: 14 to 66 days) for patients with FL.

PQI Process: Upon receipt of a new prescription for Epcoritamab in patients with R/R DLBCL or FL:

- Verify required prophylaxis
 - PJP prophylaxis: Sulfamethoxazole/Trimethoprim (800mg/160mg) DS one tablet orally 3 times per week
 - HSV prophylaxis: Valacyclovir 500 mg tablet orally once daily
- Verify required premedication
 - Dexamethasone 15 mg IV or PO (preferred) or prednisolone 100 mg IV or PO or equivalent
 - 30-120 min before each weekly epcoritamab dose AND for 3 consecutive days following each weekly administration of epcoritamab in Cycle 1
 - Diphenhydramine 50 mg oral or IV or equivalent + Acetaminophen 650 mg to 1,000 mg PO
 - 30-120 minutes prior to each weekly administration of epcoritamab

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- Patients who experienced Grade 2 or 3 CRS with previous dose:
 - Dexamethasone 15 mg IV or PO or prednisolone 100 mg IV or PO or equivalent 30-120 minutes prior to next administration of epcoritamab after a Grade 2 or 3 CRS event AND for 3 consecutive days following the next administration of epcoritamab until dose is given without \geq Grade 2 CRS event

Table 1. Epcoritamab Dosing Schedule

| DLBCL/HGBCL (3L+*) | Day 1 | Day 8 | Days 15 | Day 22 |
|---------------------------|---------|--------|---------|--------|
| Cycle 1 (2 step-up doses) | 0.16 mg | 0.8 mg | 48 mg | 48 mg |
| Cycles 2-3 | 48 mg | 48 mg | 48 mg | 48 mg |
| Cycles 4-9 | 48 mg | | 48 mg | |
| Cycles 10+ | 48 mg | | | |
| FL (3L+*) | Day 1 | Day 8 | Days 15 | Day 22 |
| Cycle 1 (3 step-up doses) | 0.16 mg | 0.8 mg | 3 mg | 48 mg |
| Cycles 2-3 | 48 mg | 48 mg | 48 mg | 48 mg |
| Cycles 4-9 | 48 mg | | 48 mg | |
| Cycles 10+ | 48 mg | | | |

*3L+; third line plus: epcoritamab is indicated after at least 2 prior therapies to be used until disease progression or unacceptable toxicity

- Hospitalization:
 - Patients with DLBCL or HGBCL should be hospitalized for 24 hours after Cycle 1, Day 15 (first full 48 mg dose)
 - For FL patients, clinical judgment should be used to determine if hospitalization is necessary based on individual patient risk factors and institutional protocols
- Monitor for CRS & ICANS:
 - CRS signs: Pyrexia, hypotension, hypoxia, dyspnea, chills, tachycardia.
 - ICANS signs: Confusion, lethargy, tremor, dysgraphia, aphasia, seizures.
- Monitoring Parameters:
 - CBC: Baseline and prior to each cycle.
 - Vital signs & neurological status: Regular assessments during treatment.
- Restarting therapy after dosage delay:
 - DLBCL or HGBCL:

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| Previous Dose | |
| 0.16 mg (Cycle 1 Day 1) | > 8 days- restart Cycle Day 1 dosing |
| 0.8 mg (Cycle 1 Day 8) | 14 days or less- resume as planned 48 mg |
| 0.8 mg (Cycle 1 Day 8) | >14 days- restart at Cycle 1 Day 1 0.16 mg |
| 48 mg (Cycle 1 Day 15 onwards) | 6 weeks or less- continue 48 mg |
| 48 mg (Cycle 1 Day 15 onwards) | >6 weeks- restart Cycle Day 1 dosing |



- FL:

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| Previous Dose | |
| 0.16 mg (Cycle 1 Day 1) | > 8 days- restart Cycle Day 1 dosing |
| 0.8 mg (Cycle 1 Day 8) | > 8 days- restart Cycle Day 1 dosing |
| 3 mg (Cycle 1 Day 15) | 14 days or less- resume as planned 48 mg |
| 3 mg (Cycle 1 Day 15) | >14 days- restart at Cycle 1 Day 1 0.16 mg |
| 48 mg (Cycle 1 Day 22 onwards) | 6 weeks or less- continue 48 mg |
| 48 mg (Cycle 1 Day 22 onwards) | >6 weeks- restart Cycle Day 1 dosing |

- Preparation and Administration:
 - 0.16 mg & 0.8 mg doses require dilution (refer to PI for dilution instructions).
 - 3 mg & 48 mg doses are ready-to-use.
 - Inject subcutaneously into the lower abdomen or thigh.
 - Rotate injection sites and avoid tattoos, scars, or irritated skin.
 - Allow vial to come to room temperature for no more than 1 hour

Patient-Centered Activities:

- Counseling & Education:
 - Educate patients and caregivers/care partners on CRS/ICANS risk and the importance of prompt reporting of symptoms.
 - Explain the step-up dosing schedule and hospitalization requirement for DLBCL patients.
 - Discuss infection risk and ensure patient is receiving PJP and HSV prophylaxis
 - Patients should be well hydrated before each dose of epcoritamab
- Financial Assistance Options:
 - Patients may qualify for co-pay assistance programs through the manufacturer or third-party organizations.

Supplemental Information:

Table 2. Adverse Reaction Management

| Adverse Reaction | Severity | Dosage Modification & Management |
|--|--------------------|--|
| Cytokine Release Syndrome (CRS) | Grade 1 (Mild) | Withhold epcoritamab; supportive care (e.g., antipyretics, IV fluids as needed). Monitor closely. |
| | Grade 2 (Moderate) | Withhold epcoritamab until symptoms resolve to Grade ≤1. Manage per guidelines with IV fluids, oxygen, corticosteroids if needed. |
| | Grade 3 (Severe) | Withhold epcoritamab until symptoms resolve to Grade ≤1. Administer tocilizumab (IL-6 inhibitor) and/or corticosteroids if indicated. Hospitalize for the next dose. |



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| | Grade 4 (Life-threatening) | Permanently discontinue epcoritamab. Administer tocilizumab and/or corticosteroids as needed. Provide intensive supportive care. |
| Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS) | Grade 1 (Mild) | Continue epcoritamab; monitor neurological function closely. Supportive care as needed. |
| | Grade 2 (Moderate) | Withhold epcoritamab until symptoms resolve to Grade \leq 1. Consider corticosteroids if necessary. |
| | Grade 3 (Severe) | Withhold epcoritamab until symptoms resolve to Grade \leq 1. Administer IV corticosteroids and provide neurological monitoring. |
| | Grade 4 (Life-threatening) | Permanently discontinue epcoritamab. Provide intensive supportive care, IV corticosteroids, and neurological evaluation. |
| Serious Infections | Any Grade | Withhold epcoritamab for active serious infections. Treat infections appropriately before resuming therapy. |
| Cytopenias (Neutropenia, Anemia, Thrombocytopenia) | Grade 3 or 4 | Monitor CBC regularly. Consider dose modification or G-CSF support (for neutropenia) as indicated. Withhold therapy if severe cytopenias occur. |
| Injection Site Reactions | Mild to Moderate | Continue epcoritamab; manage with topical corticosteroids, oral antihistamines, or analgesics as needed. |
| Embryo-Fetal Toxicity | Pregnancy Risk | Verify pregnancy status before initiation. Advise contraception during treatment and for 4 months after last dose. |

References:

1. Epcoritamab (epcoritamab-bysp). Genmab US, Inc. Plainsboro, NJ. 2024. www.accessdata.fda.gov/drugsatfda_docs/label/2024/761324s003lbl.pdf
2. National Comprehensive Cancer Network (NCCN) Guidelines. B-Cell Lymphomas (Version 3.2024).
3. Thieblemont C, Phillips T, Ghesquieres H, et al. Epcoritamab, a Novel, Subcutaneous CD3xCD20 Bispecific T-Cell-Engaging Antibody, in Relapsed or Refractory Large B-Cell Lymphoma: Dose Expansion in a Phase I/II Trial. *J Clin Oncol.* 2023;41(12):2238-2247. doi:10.1200/JCO.22.01725
4. Linton KM, Vitolo U, Jurczak W, et al. Epcoritamab monotherapy in patients with relapsed or 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
5. Linton K, Jurczak W, Lugtenburg P, et al. Epcoritamab SC monotherapy leads to deep and durable responses in patients with relapsed or refractory follicular lymphoma: First data disclosure from the Epcore NHL-1 follicular lymphoma dose-expansion cohort [abstract]. *Blood.* 2023;142: Abstract 1655.