

## Positive Quality Intervention: Epcoritamab (Epkinly<sup>®</sup>) for Relapsed/Refractory Diffuse Large B-Cell Lymphoma and Follicular Lymphoma

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

**Background:** Epcoritamab 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.<sup>1</sup> It received FDA accelerated approval for the treatment of adult patients for the following:

- R/R DLBCL, not otherwise specified, including DLBCL arising from indolent lymphoma, and high-grade B-cell lymphoma after  $\geq 2$  lines of systemic therapy
- R/R FL after  $\geq 2$  lines of systemic therapy

Treatment-related adverse effects that occurred in clinical trials and require monitoring included:

- Cytokine release syndrome (CRS), immune effector cell-associated neurotoxicity (ICANS), and injection site reactions
  - DLBCL:
    - CRS (any grade – 51%); median time to onset: 24 hours (range: 0-10 days),
    - ICANS (any grade – 6%); median time to onset: 3 days (range: 1-13 days)
    - Injection site reactions (any grade – 27%)
  - FL:
    - CRS (any grade – 49%); median time to onset: 59 hours (range: 0.1-7 days)
    - ICANS (any grade – 6%); median time to onset: 21.5 days (range: 14-66 days)
    - Injection site reactions (any grade – 58%)

**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

- 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

<b>DLBCL/HGBCL (3L+*)</b>	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			
<b>FL (3L+*)</b>	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:

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:

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
<b>Cytokine Release Syndrome (CRS)</b>	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 $\leq$ 1. Manage per guidelines with IV fluids, oxygen, corticosteroids if needed.
	Grade 3 (Severe)	Withhold epcoritamab until symptoms resolve to Grade $\leq$ 1. Administer tocilizumab (IL-6 inhibitor) and/or corticosteroids if indicated. Hospitalize for the next dose.

	Grade 4 (Life-threatening)	Permanently discontinue epcoritamab. Administer tocilizumab and/or corticosteroids as needed. Provide intensive supportive care.
<b>Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS)</b>	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.
<b>Serious Infections</b>	Any Grade	Withhold epcoritamab for active serious infections. Treat infections appropriately before resuming therapy.
<b>Cytopenias (Neutropenia, Anemia, Thrombocytopenia)</b>	Grade 3 or 4	Monitor CBC regularly. Consider dose modification or G-CSF support (for neutropenia) as indicated. Withhold therapy if severe cytopenias occur.
<b>Injection Site Reactions</b>	Mild to Moderate	Continue epcoritamab; manage with topical corticosteroids, oral antihistamines, or analgesics as needed.
<b>Embryo-Fetal Toxicity</b>	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](https://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.