

STUDY DESIGN: EPCORE CLL-1 RS Expansion Cohort

The diagram shows a T cell (left) and a Target B cell (right). Epcoritamab (green Y-shaped molecule) is shown binding to CD3 on the T cell and CD20 on the Target B cell. This interaction is labeled as leading to 'Cytotoxic activity'.

Dose escalation

CLL¹⁰

- ✓ No DLTs
- ✓ MTD not reached
- ✓ RP2D identified
- ✓ Manageable safety profile
- ✓ Encouraging antitumor activity

Median follow-up: 4.9 mo (range, 0.6–9.3)

Key RS inclusion criteria

- Ineligible for or voluntarily declined chemotherapy
- ≤1 prior line of therapy for RS-DLBCL
- Biopsy-proven transformation to CD20⁺ RS-DLBCL
- Prior clinical history of CLL or SLL
- ECOG PS 0–2
- Measurable disease by PET and/or CT/MRI

RS-DLBCL expansion, N=10

Step-up dosing^a

Epcoritamab (SC) 48 mg
QW C1–3
Q2W C4–9
Q4W C10+

→

Efficacy assessment by PET-CT obtained Q6W until C6, and then Q24W thereafter

→

Treatment until disease progression

- To ensure patient safety and better characterize CRS, inpatient monitoring was required at first 4 doses of epcoritamab
- **Primary endpoint:** Overall response rate (ORR)
- **Key secondary endpoints:** Complete metabolic response (CMR) rate, time to response (TTR), and safety/tolerability

Data cutoffs: September 8, 2022 (efficacy); September 16, 2022 (safety). Epcoritamab was administered in 28-d cycles as shown. ^aPatients received SC epcoritamab with step-up dosing (ie, 0.16 mg priming and 0.8 mg intermediate doses before first full dose) and corticosteroid prophylaxis as previously described to mitigate CRS.

RESULTS

CLL Characteristic, n (%)	Total, N=10
<i>IGHV</i> unmutated ^a	8 (80)
<i>TP53</i> mutation ^b	5 (50)
<i>NOTCH1</i> mutation ^c	2 (20)
FISH	
Trisomy 12 ^d	1 (10)
Del17p ^e	3 (30)
Del11q ^f	3 (30)
Del13q ^g	4 (40)

RS Characteristic	Total, N=10
Median age, y (range)	70 (53–79)
Male, n (%)	7 (70)
Ann Arbor stage, n (%)	
IE	1 (10)
II	1 (10)
III	3 (30)
IV	5 (50)
Elevated lactate dehydrogenase, n (%)	8 (80)
Cell of origin, n (%) ^a	
Germinal center B-cell	1 (10)
Non–germinal center/Activated B-cell	6 (60)

Characteristic of Prior CLL Therapy	Total, N=10
Median time from initial CLL diagnosis to first dose, y (range)	12 (2.6–24.0)
Median number of prior lines of therapy for CLL (range)	3 (0–7)
Prior CLL/SLL therapy, n (%)	7 (70)
Chemioimmunotherapies	7 (70)
Targeted agents	6 (60)
BCL2 inhibitor	5 (50)
BTK inhibitor	5 (50)
CAR T-cell therapy	1 (10)

Median time from last CLL treatment to first dose, mo (range)	12 (0.2–61.8)
Characteristic of Prior RS-DLBCL Therapy	Total, N=10
1 prior line of RS-DLBCL therapy, n (%)	5 (50)
R-CHOP	3 (30)
No response	2 (20)
R-DHAP	1 (10)
No response	1 (10)
VR-EPOCH ⁱ	1 (10)
Median time from disease transformation to first dose, mo (range)	3.4 (0.5–21.4)
Median time from end of last line of RS-DLBCL therapy to first dose, mo (range)	2 (0.5–5.4)

Adverse Event	Grade 1	Grade 2	Grade 3	Grade 4
CRS	3	6	0	0
Anemia	1	1	3	0
Neutro-	1	0	2	2
Injection-	3	1	0	0
Thrombo-	1	1	1	1
COVID-19	0	1	2	0
Diarrhea	2	1	0	0
Fatigue	2	1	0	0
Hyper-	0	0	3	0
Hypo-	2	1	0	0
Hypophos-	0	2	1	0
Nausea	1	2	0	0

	Total, N=10
CRS, n (%) ^a	9 (90)
Grade 1	3 (30)
Grade 2	6 (60)
CRS resolution, n/n (%)	9/9 (100)
Median time to onset after first full dose, h (range)	12.5 (8–394)
Median time to resolution, d (range) ^b	3 (2–9)
Treated with tocilizumab, n (%)	7 (70)
Leading to treatment discontinuation, n (%)	0

Dosing Period	Grade 1 (n)	Grade 2 (n)	Total (n)
Priming C1D1	3	0	3
Intermediate C1D8	3	0	3
First full C1D15	2	6	8
Second full C1D22	1	0	1
Third full+ C2D1+	1	1	2

Response, n (%) ^a	Total Efficacy Evaluable, N=10
Overall response^b	6 (60)
Complete metabolic response (CMR)	5 (50)
Partial metabolic response (PMR)	1 (10)
Stable disease	1 (10)
Progressive disease	2 (20)
Not evaluable	1 (10) ^c

Median follow-up: 4.9 mo (range, 0.6–9.3)

RS-DLBCL expansion, N=10

```

graph LR
    A[Step-up dosing] --> B[Eporitab (SC) 48 mg  
QW C1-3  
Q2W C4-9  
Q4W C10+]
    B --> C[Efficacy assessment by  
PET-CT obtained Q6W until  
C6, and then Q24W  
thereafter]
    C --> D[Treatment until disease  
progression]
  
```

The flowchart illustrates the study design in four sequential steps:

- Step-up dosing**: Indicated by a vertical label on the left.
- Eporitab (SC) 48 mg**: The dosing schedule is defined as QW C1-3, Q2W C4-9, and Q4W C10+.
- Efficacy assessment**: PET-CT scans are obtained Q6W until Cycle 6, and then Q24W thereafter.
- Treatment until disease progression**: The treatment continues until disease progression is observed.

- To ensure patient safety and better characterize CRS, inpatient monitoring was required at first 4 doses of epcoritamab
- **Primary endpoint:** Overall response rate (ORR)
- **Key secondary endpoints:** Complete metabolic response (CMR) rate, time to response (TTR), and safety/tolerability

Change from baseline in tumor size (%)

Best overall response

- CMR
- PMR
- SD
- PD

Data cutoff: September 8, 2022.

- Nearly all patients achieved at least 50% reduction in tumor size from baseline

Figure 1: Kaplan-Meier plot showing overall survival (OS) for patients with relapsed or refractory (R/R) diffuse large B-cell lymphoma (DLBCL) treated with TP53/Del17p.

The plot displays time on treatment (weeks) for 10 patients. The x-axis ranges from 0 to 42 weeks. The y-axis lists patients with their treatment status (Prior RS, Prior CLL, TP53/Del17p). The legend indicates: Ongoing treatment (black triangle), CMR (red circle), PMR (blue circle), SD (grey circle), PD (grey diamond), and Discontinued due to PD (grey diamond). The plot shows that patients with CMR have the best overall response, followed by PMR, SD, and PD. The text "Best overall response" is at the top right. The text "N=10" is at the bottom left.

Patient	Prior RS treatment	Prior CLL treatment	TP53/Del17p	Outcome	Time on treatment (weeks)
1	✓	✓	✓	CMR	~42
2	✓	✓	✓	CMR	~24
3	✓	✓	✓	CMR	~18
4	✓	✓	✓	CMR	~18
5	✓	✓	✓	CMR	~18
6	✓	✓	✓	CMR	~18
7	✓	✓	✓	CMR	~18
8	✓	✓	✓	CMR	~18
9	✓	✓	✓	CMR	~18
10	✓	✓	✓	CMR	~18

Data cutoff: September 8, 2022. Median follow-up: 4.9 mo (range, 0.6–9.3). Tumor response was evaluated by PET-CT obtained Q6W until wk 24, and then Q24W until disease progression. Per protocol, patients continued to receive scans if they discontinued treatment for reasons other than PD. Check marks indicate patient characteristics. *Response was verified as CMR post data cutoff, with updated bone marrow results, while patient was receiving 40 mg of prednisone.

- Median time to response was 1.3 mo (range, 1.1–2.4)
- Median time to complete response was 1.4 mo (range, 1.1–2.8)

Patient history

- 76-year-old male
- Diagnosed with SLL in Jul 2019, started on ibrutinib
- Transformed to RS-DLBCL in Oct 2020
- RS-DLBCL treated with 3 cycles of R-CHOP, mixed response

Epcoritamab treatment

- First dose: Feb 2021 (SPD = 105 cm²)
- CR at week 6, 12, 17, 23, 36, 48, 62, 76 (DS = 1, SPD = 2.8 cm²)
- Patient has been in sustained CR for over 70 weeks and is still on treatment (last dose C22D1)

Baseline PET/CT scan



Mesenteric mass:
11.6 x 7.2 cm

12-week PET/CT scan



Mesenteric mass:
0.5 x 0.5 cm

76-week PET/CT scan



Mesenteric mass:
0.5 x 0.5 cm

Courtesy of Dr. Yasmin H. Karimi.

Presented at the 27th Annual International Congress on Hematologic Malignancies®: Focus on Leukemias, Lymphomas, and Myeloma; February 23–26, 2023; Miami, FL



Copies of this poster obtained through quick response (QR) code are for personal use only and may not be reproduced without permission from the authors of this poster.

Acknowledgments

Acknowledgments

Disclosures