

Epcoritamab in Patients With Relapsed or Refractory Chronic Lymphocytic Leukemia: Results From the Phase 1b/2 EPCORE CLL-1 Trial Expansion Cohort

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Disclosures

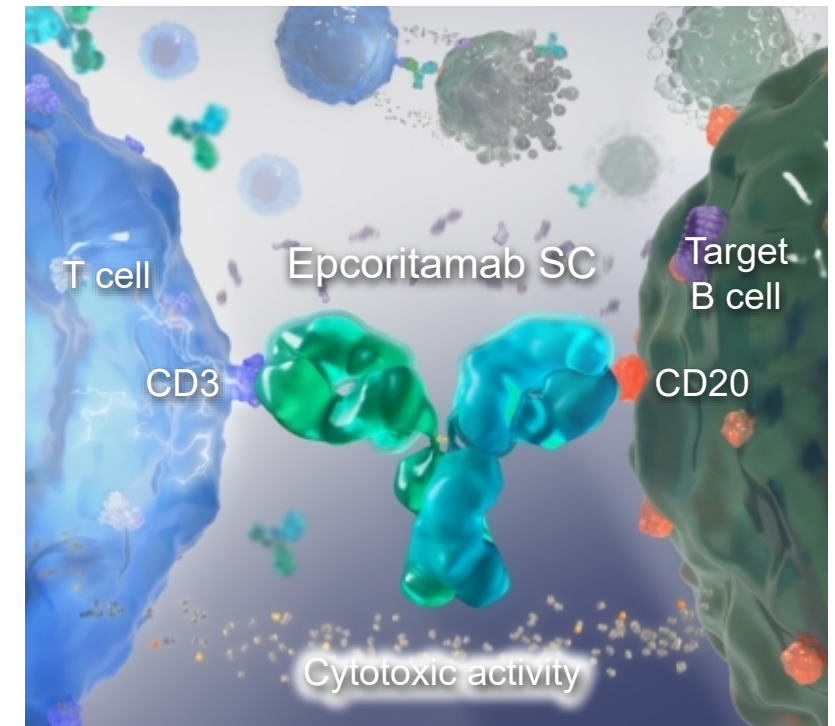
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Novel Treatment Options Are Needed for Patients With R/R CLL

- Bruton tyrosine kinase (BTK) and B-cell lymphoma 2 (BCL-2) inhibitors have improved outcomes in R/R CLL; however, they are not considered curative^{1,2}
- An increasing number of patients with R/R CLL are double-exposed to these agents, and there is a lack of effective salvage options, leading to very poor outcomes³
- Novel, efficacious therapies are needed for these patients, who often have poor prognostic factors, including *TP53* aberrations and/or unmutated *IGHV*, and have experienced clonal evolution^{1,2}

Epcoritamab is a novel subcutaneous CD3xCD20 bispecific antibody

- Approved by the US FDA for the treatment of adults with R/R DLBCL, not otherwise specified, including DLBCL arising from indolent lymphoma, and high-grade B-cell lymphoma after ≥ 2 lines of systemic therapy⁴
- Previous reports from EPCORE CLL-1 showed encouraging efficacy and manageable safety in R/R CLL (dose escalation) and Richter's syndrome (dose expansion)^{5,6}



1. Hallek M, et al. *Lancet*. 2018;391:1524-37. 2. Dreger P, et al. *Blood*. 2018;132:892-902. 3. Martens AWJ, et al. *Leukemia*. 2023;37:606-16. 4. EPKINLY [prescribing information]. Plainsboro, NJ: Genmab US, Inc.; 2023. 5. Kater AP, et al. ASH 2021. Abstract 2627. 6. Kater AP, et al. ASH 2022. Abstract 348.

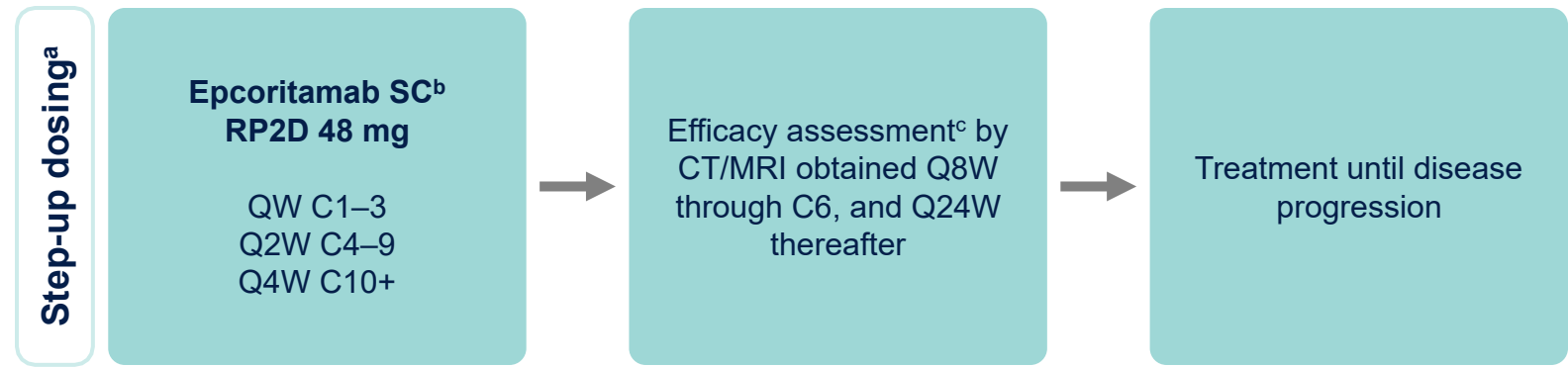
Study Design: EPCORE CLL-1 Expansion Cohort (R/R CLL)

Key inclusion criteria

- CD20⁺ R/R CLL
- ≥2 prior lines of systemic therapy, including treatment with or intolerance to a BTK inhibitor
- ECOG PS 0–2
- Requiring treatment per iwCLL criteria
- Measurable disease with ≥5×10⁹/L B lymphocytes or measurable lymphadenopathy or organomegaly
- No minimum life expectancy required

Median follow-up: 12.1 mo (range, 0.1+ to 19.2)

R/R CLL expansion, N=23 (fully enrolled)



- **Primary endpoint:** Overall response rate (ORR)
- **Key secondary endpoints:** Complete response (CR) rate, time to response, and safety/tolerability

Data cutoff: July 5, 2023. Epcoritamab was administered in 28-d cycles. ^aPatients received epcoritamab SC 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. ^bTo ensure patient safety and better characterize CRS, inpatient monitoring was required for the first 4 doses of epcoritamab. ^cBased on iwCLL guidelines.

Patient Characteristics and Treatment History

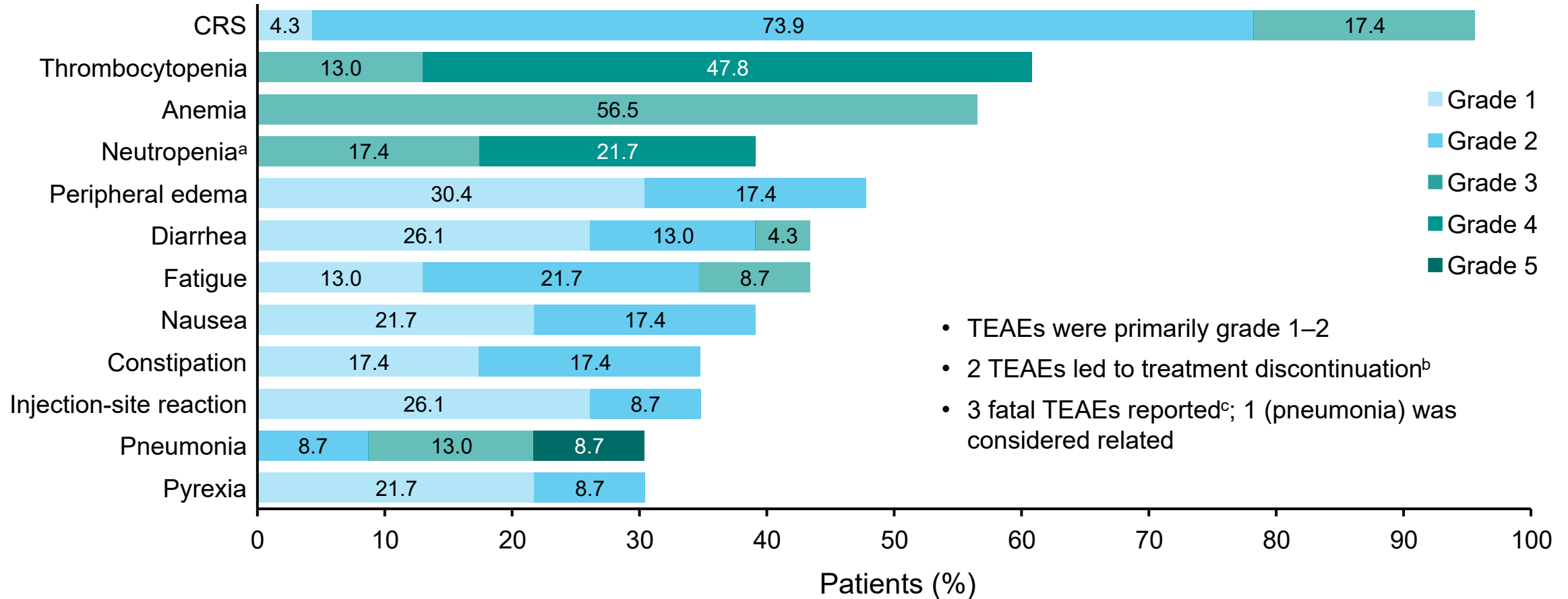
Characteristic	Total N=23
Median age, y (range)	72 (55–83)
Male, n (%)	17 (74)
CLL characteristic, n (%)	
<i>IGHV</i> unmutated ^a	16 (70)
<i>TP53</i> aberration ^b	15 (65)

Treatment History	Total N=23
Median time from initial diagnosis to first dose, y (range)	13 (5.5–19.5)
Median number of prior lines of therapy (range)	4 (2–10)
≥4 prior lines of therapy, n (%)	15 (65)
Prior therapy, n (%)	23 (100)
Chemoimmunotherapy	23 (100)
Small molecules	23 (100)
BTK inhibitor	23 (100)
Discontinuation due to progression	17 (74)
BCL-2 inhibitor	19 (83)
CAR T-cell therapy	1 (4)
Median time from last treatment to first dose, mo (range)	1.0 (0.1–49.4)

Prior therapies and key CLL characteristics reflect a modern R/R CLL patient population

Data for CLL characteristics were obtained from local laboratories. ^a*IGHV* status mutated for 4 patients and unknown for 3 patients. ^b*TP53/del17p* status unmutated/negative for 6 patients and unknown for 2 patients.

Common (>30%) Treatment-Emergent AEs

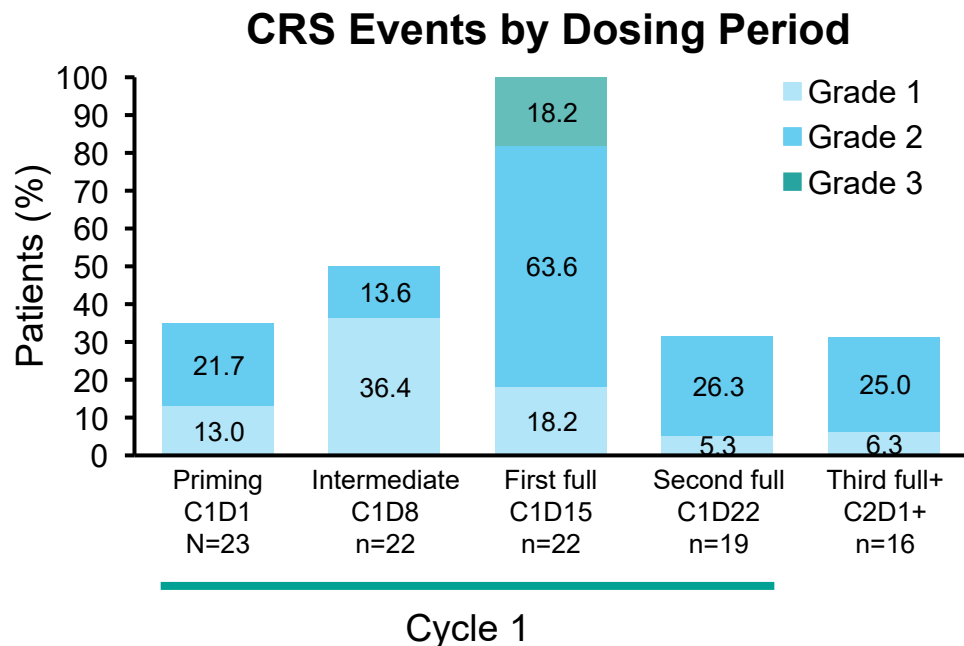


N=23. Additional grade 3 TEAEs: Alanine aminotransferase increased, aspartate aminotransferase increased (both n=3); arthralgia, hypertension, hypokalemia, pleural effusion (all n=2); acute sinusitis, capillary leak syndrome, COVID-19, dyspnea, epistaxis, headache, hematoma, hematuria, hepatotoxicity, herpes zoster reactivation, hyperglycemia, hypertriglyceridemia, hypotension, infection, intestinal abscess, leukocytosis, leukopenia, musculoskeletal pain, *Pneumocystis jirovecii* pneumonia, presyncope, syncope (all n=1). Additional grade 4 TEAEs: Cerebrovascular accident, hyperkalemia (both n=1). ^aTwo cases of febrile neutropenia were reported. ^bPneumonia (n=2); 1 was considered related to treatment. ^cPneumonia (n=2) and squamous cell carcinoma of the skin (n=1).

AEs of Special Interest Were Manageable

CRS ^a	Total, N=23
CRS resolution, n/n (%)	22/22 (100)
Median time to onset after first full dose, h (range)	7.3 (1–99)
Median time to resolution, d (range) ^b	3 (1–16)
Treated with tocilizumab, n (%)	19 (83)

ICANS & Clinical Tumor Lysis Syndrome	Total, N=23
ICANS, n (%)^c	3 (13)
Grade 1	1 (4)
Grade 2	2 (9)
ICANS resolution, n/n (%)	3/3 (100)
Median time to resolution, d (range)	3 (3–4)
Tumor lysis syndrome, n (%)	1 (4)
Laboratory	0
Clinical – grade 2	1 (4)
Clinical tumor lysis syndrome resolution, n/n (%)	1/1 (100)
Time to resolution, d	11



- CRS occurrence was predictable, with most cases following the first full dose
- No AEs of special interest led to discontinuation, and all resolved

^aGraded by Lee et al 2019 criteria. ^bMedian is Kaplan–Meier estimate based on longest CRS duration in patients with CRS. ^cAll ICANS events occurred with grade 2 CRS.

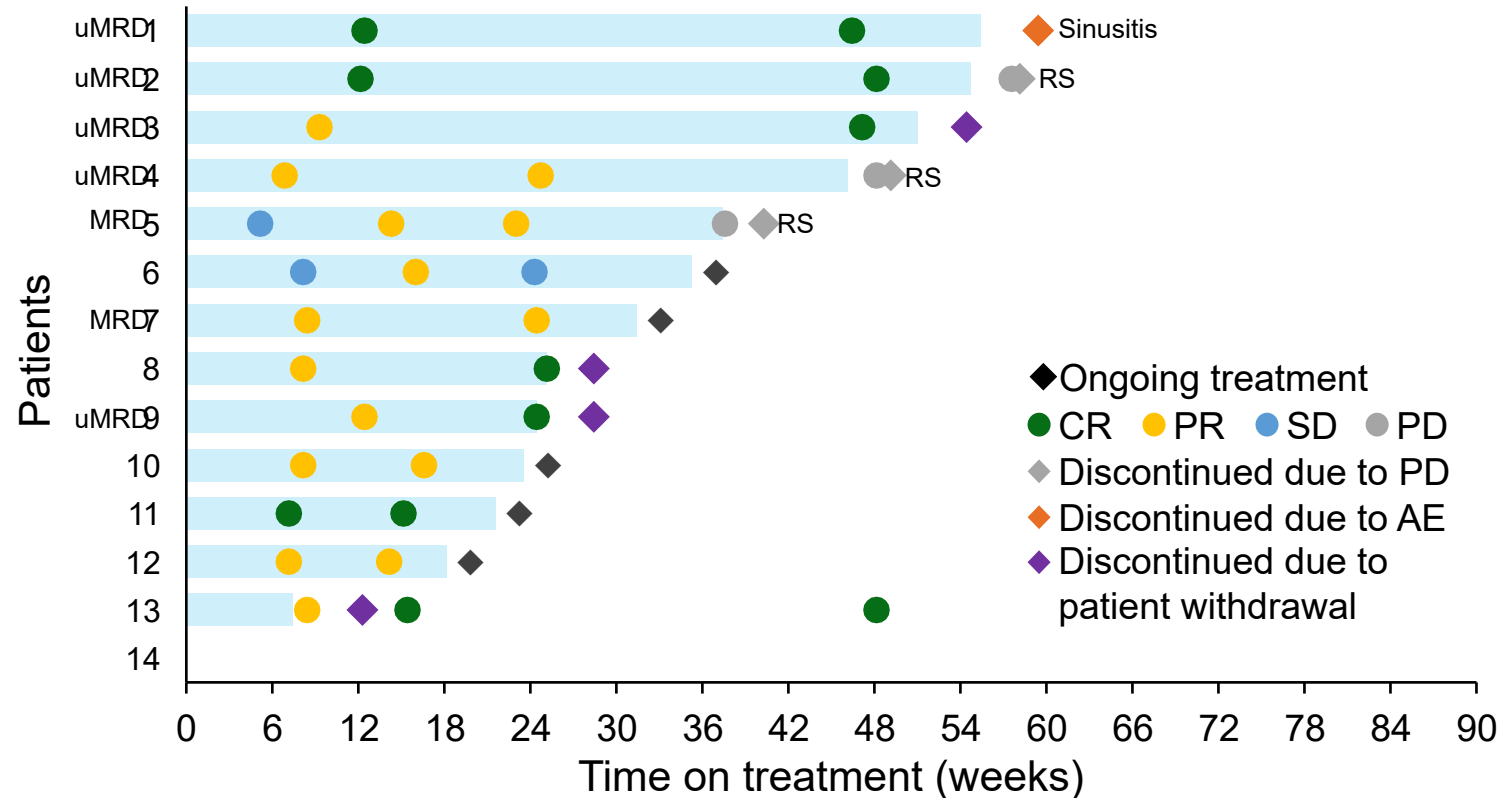
High Overall and Complete Response Rates

Response, n (%) ^a	Total Efficacy Evaluable n=21	TP53 Aberration n=14	Double-Exposed ^b n=17
Overall response^c	13 (62)	9 (64)	9 (53)
Complete response	7 (33)	4 (29)	5 (29)
Partial response	6 (29)	5 (36)	4 (24)
Stable disease	4 (19)	2 (14)	4 (24)
Progressive disease	1 (5)	1 (7)	1 (6)
Not evaluable/no assessment ^d	3 (14)	2 (14)	3 (18)

Very encouraging overall and complete response rates observed, including in difficult-to-treat, high-risk R/R CLL patients

^aBased on response-evaluable population, defined as patients who received ≥1 full dose of epcoritamab, had ≥1 postbaseline response evaluation, or died within 60 d of first dose^bPatients previously treated with both a BTK and a BCL-2 inhibitor. ^cResponse assessment according to iwCLL criteria. ^dTwo patients died without postbaseline assessment.

Deep and Durable Responses



Responses occurred early, were deep, and appear durable

	Efficacy Evaluable n=21
Median time to response, mo (range)	1.9 (1.6–3.7)
Median time to CR, mo (range)	3.6 (1.6–10.8)
Estimated DOR at 9 mo, ^a %	83
Estimated PFS at 9 mo, ^a %	67
Estimated OS at 9 mo, ^a %	81

^aKaplan–Meier estimates.

Median follow-up, mo (range): 12.1 (0.1+ to 19.2). Median number of treatment cycles initiated (range): 5 (1–14). Median duration of treatment, mo (range): 5.0 (0.03–12.7). Seven responders (4 CR; 3 PR) were tested for MRD in peripheral blood. All 4 patients with CR had undetectable MRD (uMRD) to 10^{-4} (<1 CLL cell in 10^4 leukocytes). One patient with PR had uMRD to 10^{-4} . RS, Richter's syndrome.

Conclusions

In a difficult-to-treat, high-risk population of patients with R/R CLL, most of whom had been double-exposed, single-agent epcoritamab SC showed promising antitumor activity

- Responses were seen early and frequently (ORR 62%; CR rate 33%) and appear durable, with an estimated 83% of responders remaining in response at 9 mo

Safety was manageable and consistent with T-cell–engaging strategies; there were no new safety signals

- CRS events were mostly low grade, all were transient, and none led to discontinuation

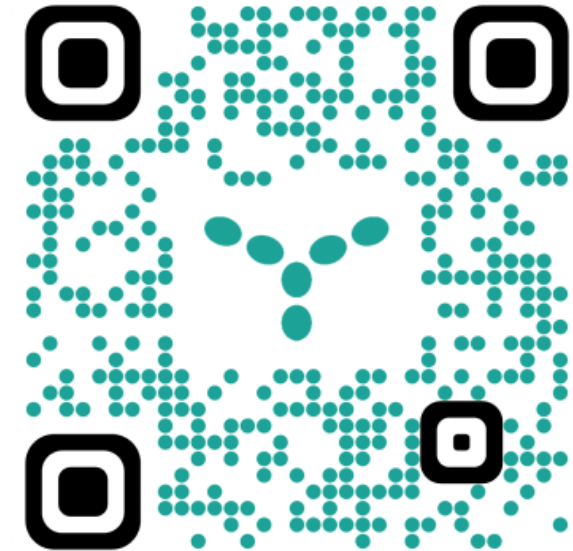
The findings support the continued exploration of epcoritamab SC

EPCORE CLL-1 is enrolling patients with R/R CLL/small lymphocytic lymphoma (SLL) or Richter’s syndrome (NCT04623541)

- In this trial, epcoritamab is combined with:
 - Venetoclax for R/R CLL/SLL
 - Lenalidomide or R-CHOP for Richter’s syndrome

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