

## INTRODUCTION

- Marginal zone lymphoma (MZL) is a heterogeneous disease representing 7% of non-Hodgkin lymphomas<sup>1</sup>
- Complete response (CR) rate is one of the most important prognostic factors in MZL and was recently validated as the best surrogate marker in patients with extranodal MZL treated with systemic therapy<sup>2</sup>
- In the relapse setting, there is no standardized therapeutic approach, and CR is infrequently achieved
- We report a multicenter clinical trial examining Ioncastuximab tesirine (Lonca) efficacy in inducing CR and improving survival in patients with relapsed/refractory (R/R) MZL needing treatment

## AIM

• This is an ongoing, open-label, multi-institutional, investigator-initiated study evaluating the safety and efficacy of Lonca in R/R MZL (NCT05296070)

### METHODS

- Adult patients previously treated with  $\geq 1$  line of systemic therapy were eligible if they required treatment based on symptoms, met predefined criteria for an MZL subtype, or experienced disease progression within 24 months (POD24)
- Lonca was given intravenously at 0.15 mg/kg every 3 weeks (Q3W) for 2 cycles followed by 0.075 mg/kg Q3W for 4 cycles
- Premedication with dexamethasone (4 mg twice daily for 3 days) and prophylaxis to prevent fluid overload with spironolactone (100 mg) was required
- The primary endpoint was CR after 6 cycles based on Lugano 2014 criteria<sup>3</sup> using PET-CT (if FDG avid at presentation) or MRI or CT(for nonavid disease)
- The study implements a Bayesian optimal phase 2 design, with 2 sequential interim analyses of the CR rate, at 20 and then at 40 evaluable patients, with a final analysis at 50 evaluable patients



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# LIMITED DURATION LONCASTUXIMAB TESIRINE INDUCES A HIGH RATE OF COMPLETE RESPONSES IN PATIENTS WITH RELAPSED/REFRACTORY MARGINAL ZONE LYMPHOMA—REPORT OF FIRST PLANNED INTERIM FUTILITY ANALYSIS OF A MULTICENTER PHASE II STUDY

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## RESULTS

• A total of 23 patients were enrolled from July 2022 to October 2024; patient demographics and disease characteristics are given in **Table 1** 

### Table 1. Patient demographics and disease characteristics

Characteristic	Patients (N = 23)	Characteristic	Patie (N =
median (range)	65 (45-82)	ECOG PS 0-1, n (%)	23 (1
der (M:F)	8:15	POD24, n (%)	11 (4
ck non-Hispanic 1	2 (9)	Median previous lines of treatment (range)	2 (1
	1 (4) 9 (39)	Relapsed, n (%)	14 (6
ite non-Hispanic	11 (48)	Refractory, n (%)	9 (3
type, n (%) IZL IZL IZL	14 (61) 7 (30) 2 (9)	Previous treatments, <sup>a</sup> n (%) Rituximab XRT R-CHOP	8 (3 7 (3 7 (3 6 (2
e, n (%)	4 (17) 2 (9) 17 (74)	BR BTKi R <sup>2</sup> RICE	6 (2 4 (1 3 (1 2 (9

<sup>a</sup>Other previous treatments, each by 1 patient include CAR-T, R-CVP, R-GemOx, R-MPV, splenectomy, and zevalin

BR, bendamustine/rituximab; BTKi, Bruton tyrosine kinase inhibitor; CAR-T, chimeric antigen receptor T-cell therapy; ECOG PS, Eastern Cooperative Oncology Group performance status; EMZL, extranodal MZL; MZL, marginal zone lymphoma; NMZL, nodal MZL; POD24, disease progression within 24 months; SMZL, splenic MZL; R<sup>2</sup>, rituximab/lenalidomide; R-CHOP, rituximab/cyclophosphamide/doxorubicin/vincristine/prednisone; R-CVP, rituximab/cyclophosphamide/ vincristine/prednisone; R-GemOx, rituximab/gemcitabine/oxaliplatin; RICE, rituximab/ifosfamide/carboplatin/etoposide; R-MPV, rituximab/methotrexate/procarbazine/vincristine; XRT, radiotherapy.

• As of October 15, 2024, 23 patients were evaluable for response

The overall response rate was 91% (21/23 patients), with a CR rate of 70% (16/23 patients; **Figure 1**) and with 2 patients still on treatment

Lonca led to a CR in 7 of 11 patients (64%) with POD24 who were assessed for response; 1 patient who had progressed after CAR-T achieved a CR with Lonca

## CONCLUSIONS

 Lonca demonstrates clinically meaningful activity with a robust CR rate in patients with R/R MZL in our ongoing phase 2 study, and passed first and second interim futility analysis thresholds for early stopping

• The treatment is well tolerated, and the safety profile is consistent with known adverse effects with no new unexpected toxicities • The patients demonstrated durable CRs, but longer follow-up is needed

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CR, complete response; DoCR, duration of complete response; DoR, duration of response; OS, overall survival; PR, partial response

 The estimated progression-free survival rate at 12 months was 91.7%. No patients have died during treatment (**Figure 3**)

# REFERENCES

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### Figure 3. (A) PFS and (B) OS in evaluable patients



• Generally, Lonca was well tolerated, and the observed safety was consistent with the known profile (**Table 2**)

### Table 2. Safety profile of Lonca

	Patients (N = 23)		
TEAE, n (%)	Any grade	Grade 3	Grade 4
Maculopapular rash	15 (65.2)	1 (4.3)	0
Increased AST	15 (65.2)	0	0
Increased ALT	14 (60.8)	2 (8.7)	0
Increased alkaline phosphatase	11 (47.8)	3 (13.0)	0
Neutropenia	10 (43.4)	3 (13.0)	1 (4.3)
Local edema	10 (43.4)	0	0
Photosensitivity	7 (30.4)	1 (4.3)	0
Anemia	7 (30.4)	1 (4.3)	0
Urinary infection	3 (13.0)	1 (4.3)	0
Lung infection	2 (8.7)	0	0
Pleural effusion	2 (8.7)	0	0
Anorexia	1 (4.3)	1 (4.3)	0
COVID-19	1 (4.3)	0	0
Weight loss	1 (4.3)	1 (4.3)	0
Lung infection Pleural effusion Anorexia COVID-19	2 (8.7) 2 (8.7) 1 (4.3) 1 (4.3) 1 (4.3)	0 0 1 (4.3) 0 1 (4.3)	0 0 0 0 0 0

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All 23 patients experienced expected adverse events (AEs), most commonly grade 1 or 2. Grade 3 and 4 AEs were observed in 15 and 1 (neutropenia) patients, respectively

 Three patients needed a dose reduction. One patient discontinued treatment after cycle 4 because of cholestatic hepatitis; the patient clinically fully recovered, with normalization in liver function test abnormalities

# **CONTACT INFORMATION**



The authors thank the patients who volunteered to participate in this trial, their families, and the staff members at

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