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**PS1579** 

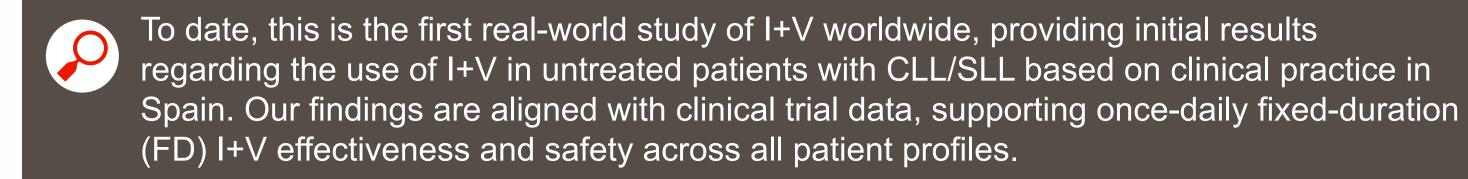
# First worldwide real-life data on fixed-duration

# Ibrutinib+Venetoclax treatment for previously untreated CLL/ SLL patients: initial interim analysis of Spain's LI+VE observational study

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### Key takeaway



### Conclusions

- The patient population receiving I+V in this study is diverse and reflects how, in a realworld setting, previously untreated patients with CLL/SLL exhibit a high prevalence of cardiovascular disease and other comorbidities, with the majority receiving multiple concomitant medications.
- The preliminary results of this real-world study suggest that I+V is an effective treatment for previously untreated CLL/SLL patients, including those with comorbidities, elderly and unfit characteristics. Nearly half of the patients (45.2%) achieved early confirmed clinical responses and no progressions were reported.
- In this real-world study, ibrutinib lead-in significantly reduced the tumor burden category for TLS monitoring and prophylaxis. I+V was well tolerated, with a very low discontinuation rate and no discontinuations attributed to cardiovascular toxicity. Additionally, there were no treatment-related deaths or severe cardiovascular AEs. These early results may suggest a better tolerability of a FD regimen vs. continuous treatment. Future follow-up will shed light on this matter.



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### **Disclosure declaration**

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### Background

Results

(31.0%).

Characteristic

**Male**, n (%) [n= 92]

**ECOG** n (%) [n= 88]

Not done

Medium

Hypertension

Dyslipidemia

**Diabetes Mellitus** 

**Active Smoking** 

pump inhibitors (33.9%)

References

Obesity

Low

**Histology**, n (%) [n= 86]

≥70 years

Age (years), median (range) [n= 91]

Chronic lymphocytic leukemia

Small lymphocytic lymphoma

**Bulky disease ≥5 cm**, n (%) [n= 83]

Cardiovascular risk, n (%) [n= 85]

High-risk genomic features, n (%) [n= 86]

Unmutated IGHV/del(17p)/TP53 mutation/del(11q)

Cardiovascular risk factors (>20%), n (%) [n= 86]

Patients with comorbidities (>10%), n (%) [n= 80]

**Concomitant medications** 

1. Tam CS. et al. Blood 2022 Jun;139(22):3278-3289.

2. Den J. et al. Leukemia. 2017 Oct;31(10):2075-2084

3. Lu P. et al. Blood Cancer J. 2021 Feb;11(2):39.

The number of patients with available data is shown in square brackets. CV risk according Online

The majority of patients were receiving concomitant medication at I+V treatment

initiation (78.2%), with more than half of patients (55.9%) receiving ≥3 medications.

The most commonly used drugs were antihypertensives (43.5%) and proton

calculator 'Fundación Española del Corazón'. ALC, Absolute lymphocyte count.

ALC x 10<sup>9</sup>/L, median (range)

**Unmutated IGHV** 

del(17p)/mutated TP53

**RAI stage 0-II**, n (%) [n= 87]

**Patient characteristics** 

- Ibrutinib plus venetoclax (I+V) is the first all-oral, chemotherapy- free, oncedaily fixed-duration (FD) therapy with EMA approval since August 2022 for previously untreated chronic lymphocytic leukemia/small lymphocytic lymphoma (CLL/SLL) patients.1
- Due to their distinct and complementary mechanisms of action, I+V work synergistically to eradicate CLL by eliminating both dividing and resting leukemic subpopulations, inducing deep responses with time-limited therapy, enabling treatment-free remissions for patients.<sup>2-4</sup>
- Ibrutinib, alone or in combination with venetoclax, has significantly improved overall survival (OS) in CLL patients, with some trials demonstrating OS rates comparable to the age-matched healthy population.<sup>5</sup>
- I+V shows durable responses and manageable safety across all patient profiles in previously untreated CLL/SLL patients with high progression-free survival (PFS) and OS rates, even in elderly patients or those with high-risk genomic
- Despite the evidence from clinical trials, real-world data on CLL/SLL patients treated with this regimen in routine practice remains scarce. In this context,

At cut-off date of November 11th, 2024, 93 patients were included in this study. The

median age was 63 (range: 41-84) years, with 29.7% ≥70 years. A high proportion

of patients (69.8%) had cardiovascular (CV) risk factors, with hypertension

(63.3%) being the most common. Overall, 61.2% pts were at medium/high CV

risk. Most of the patients had ≥1 comorbidity (66.3%) of which 49.1% had ≥2

co-existing diseases. In particular, CV comorbidity was present in 15.1%. In

addition, 30.2% and 28.3% of patients had nervous system and gastrointestinal

disorders, and 13.2% had respiratory disorders and previous or concomitant

neoplasms (Table 1). The most common reason for I+V initiation was lymph

node enlargement (63.1%), followed by the presence of systemic symptoms

Table 1. Demographics and baseline characteristics of the patients

worldwide.

## **Objective**

**Patient status at Visit 1** 

Treatment with ibrutinib+venetoclax

Venetoclax initiation, n (%) [n= 93]

Confirmed response (iwCLL2018)

Complete response

Disease progression

Alive, n (%) [n= 88]

Chronic Lymphocytic Leukemia

Partial response

**Survival status** 

Ramp-up completed, n (%) [n= 68]

Achieved 400 mg daily at the end of ramp-up

Time on treatment (months), median (range) [n= 87]

Treatment cycles completed, median (range) [n= 87]

Response assessment performed, n (%) [n=86]

To assess the effectiveness, safety, and clinical management of first-line I+V treatment in CLL/SLL patients in routine clinical practice in Spain.

the LI+VE study aims to provide the first real-life data on I+V FD combination

### Methods

Variable \

Value (N=93)

63 (41-84)

27 (29.7)

63 (68.5)

75 (87.2)

11 (12.8)

59 (67.8)

61 (69.3)

46 (52.3)

13 (14.8)

2 (2.3)

27 (30.7)

26 (31.3)

54.4 (1.5-391.4)

47 (54.7)

10 (11.6)

5 (5.8)

52 (60.5)

10 (11.8)

42 (49.4)

33 (38.8)

60 (69.8)

38 (63.3)

34 (56.7)

13 (21.7)

12 (20.0)

12 (20.0)

53 (66.3)

- LI+VE is an ambispective, multicenter, observational study, conducted in 40 centers in Spain. Patients included in the study had to have been diagnosed with CLL/SLL, initiated first-line treatment with I+V according to clinical practice and have completed ≥1 cycle of ibrutinib before signing the informed consent form (visit 1).
- At the time of patients' inclusion in the study (Visit 1), a retrospective data collection was performed, which included characteristics of the patients as well as measures of the effectiveness, safety, and tolerability of I+V. During the prospective observational period, effectiveness and safety data will be collected at Visits 2, 3, and 4 (Figure 1).

At Visit 1, all patients were alive, and 93.1% remained on treatment, with a median

time on treatment of 9.8 months (range: 2.3–17.4) and a median of 6 completed

cycles. Three patients had completed the I+V regimen. In addition, 85.1% had

completed the 3-cycle ibrutinib lead-in. Of the 19 patients with a documented

response, 16 (84.2%) achieved a complete response, while 3 (15.8%) had a

partial response, according to the iwCLL2018 criteria as per routine clinical

practice. No cases of disease progression were reported (Table 2).

Table 2. Treatment status and clinical responses at visit 1

### **Treatment modifications**

Figure 1. Study design

Dose reductions were infrequent, ibrutinib was reduced in only 2 patients (2.2%) due to arrhythmia (n=1) and neutropenia (n=1) and venetoclax was reduced in 5 patients (5.4%) due to diarrhea (n=2), abdominal pain (n=1), thrombocytopenia (n=1) and food poisoning (n=1) (Table 3). As a result of dose flexibility, all adverse events (AEs) leading to ibrutinib dose reductions were resolved. Among those resulting in venetoclax dose reductions 67% were resolved (n=3) or partially resolved (n=1). Treatment was permanently discontinued in 1 patient. No cardiovascular toxicity leading to discontinuation was reported.

The primary objective of this study is to describe PFS. Key secondary

objectives include description of patients' characteristics, effectiveness in terms

present the first interim analysis, which describes the

Prospective phase

Visit 3 (≈ 12 months)

clinical

(≈ 24 months)

of response, OS, duration of treatment, time to next treatment, and safety.

baseline characteristics, preliminary

tolerability, and effectiveness of I+V treatment.

≥1 ibrutinib cycle

Table 3. Dose modification, and discontinuation of therapy

Characteristic	Value (N=93)
Dose reductions, n (%) [n= 93]	6 (6.5)
Ibrutinib (280mg/day) (cycle 3 and 8)	2 (2.2)
Venetoclax (cycles 4-7)	5 (5.4)
100 mg/day	1 (20.0)
200 mg/day	2 (40.0)
300 mg/day	2 (40.0)
Discontinuation of therapy (pyoderma gangrenosum), n (%) [n= 93]	1 (1.1)

### Satety

Value (N=93)

69 (74.1)

59 (86.8)

56 (94.9)

9.8 (2.3-17.4)

6 (0-16)

42 (48.8)

19 (45.2)

16 (84.2)

3 (7.1)

0(0.0)

Overall, I+V was well tolerated. 51/93 patients (54.8%) experienced ≥1 AEs. The rate of AEs generally decreased over time. The most common all grade AEs were diarrhea (15%), and neutropenia (13%). AEs were grade 1-2 in the majority of patients (60%), and the most common grade ≥3 AE was neutropenia (9.7%). Filgrastim was used in 16% of patients. **Table 4** shows the description of AEs.

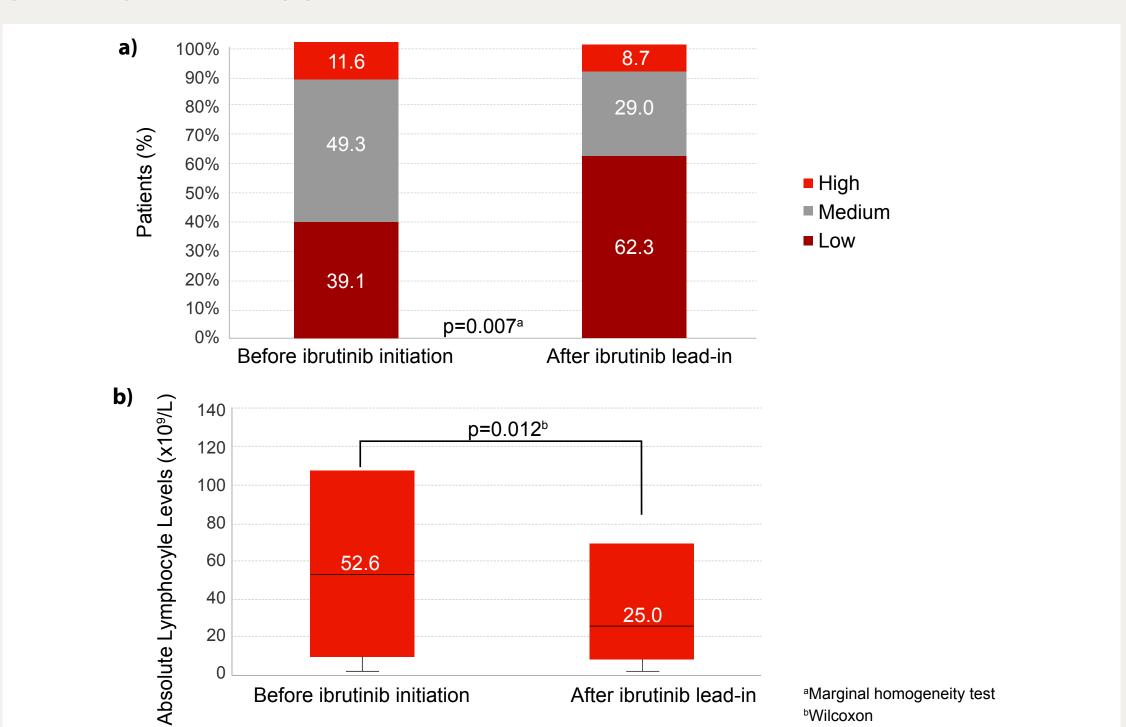
## TLS risk category and indication for hospitalization

At cut-off date, 75.0% (6/8) of patients with a high risk of TLS prior to treatment shifted to medium or low TLS risk categories after ibrutinib lead-in. Only 8.7% remained in the high TLS risk category (p=0.007); (Figure 2a). Lymphocyte levels decrease significantly after ibrutinib lead-in from a median of 52.6x109/L (range: 1.5-391.4) to 25.0 x109/L (range: 1.3-439.6) (p=0.012) (Figure 2b).

The number of patients with available data is shown in square brackets. iwCLL, International Workshop on

Only 6 patients were hospitalized during the venetoclax ramp-up phase, all for TLS monitoring and prophylaxis per venetoclax prescribing information. No clinical or laboratory TLS occurred.

Figure 2. Impact of single-agent ibrutinib lead-in on TLS risk category (a) and on lymphocytes count (b)



### **Table 4. Adverse events**

AEs	Any grade	Grade 3/
Patients with any AE, n (%)	51 (54.8)	18 (19.4
Most common AEs (≥ 5%), n (%)		
Diarrhea	14 (15.1)	2 (2.2)
Neutropenia	12 (12.9)	9 (9.7)
Infection	11 (11.8)	2 (2.2)
Bleeding (including contusion)	10 (10.8)	1 (1.1)
Nausea	6 (6.5)	0 (0.0)
Arthralgia	5 (5.4)	0 (0.0)
Headache	5 (5.4)	0 (0.0)
Other AEs of clinical interest, n (%)		
Arrhythmia	1 (1.1)	1 (1.1)
Atrial fibrillation	2 (2.2)	0 (0.0)
Palpitations	1 (1.1)	0 (0.0)
Hypertension	2 (2.2)	0 (0.0)
TLS	0 (0.0)	0 (0.0)
Second primary malignancy	0 (0.0)	0 (0.0)
SAEs, n (%)	10 (10.8)	9 (9.7)

4. Kater AP et al. NEJM Evid. 2022 Jul;1(7):EVIDoa2200006

5. Ghia P et al. Blood 2022 Nov;140(Supplement 1):4159-4161.

6. Ghia P et al. Hemasphere. 2023 Aug;7(Suppl ):e2822842. 7. Timofeeva N et al. Blood Neoplasia 2024 Sep;1(3):100034. 8. Niemann C et al. Presented at the 66th ASH Annual Meeting 2024; December 7-10, 2024; San

9. Jacobs R et al. Presented at the 29th European Hematology Association (EHA) Hybrid Congress June 13-16, 2024; Madrid, Spain

**B-cell malignancies** 

