

Real-World Use of Fixed-Duration Ibrutinib+Venetoclax in Patients With Previously Untreated Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma: Pooled Analysis of REALITY-Worldwide and REALITY-2 Prospective Cohort Studies

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Key Takeaway



This largest prospective RW dataset to date confirms the efficacy and safety of FD Ibr+Ven for patients with CLL/SLL across all age groups (≥ 65 and < 65 years)

Conclusions



High ORR confirmed in RW data after 9 treatment cycles; 90% ORR and 30% CR



Low rate of treatment discontinuations due to TEAEs (3.9%) and dose adjustments (8.8%) confirm the well-tolerated profile of FD Ibr+Ven



FD Ibr+Ven is well suited for outpatient administration, with no TEAEs or hospitalizations due to TLS and high physician agreement (88%) on the advantage of its route of administration, supporting the use of this all-oral regimen for patients with CLL/SLL



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Poster

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Disclosures

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Introduction

- Fixed-duration (FD) ibrutinib+venetoclax (Ibr+Ven) is approved as first-line (1L) treatment for chronic lymphocytic leukemia (CLL) in 78 countries across Asia, Europe, the Middle East, and South America, plus Australia, Canada, and New Zealand
- Clinical trials with up to 5.5 years of follow-up have demonstrated progression-free and overall survival benefits of 1L FD Ibr+Ven in patients (pts) with CLL/small lymphocytic lymphoma (SLL)¹⁻³
- Despite the established benefit from clinical studies, there is a lack of supporting real-world (RW) evidence on the effectiveness and tolerability of FD Ibr+Ven outside of a clinical trial setting

- REALITY-WW (Worldwide) and REALITY-2 (Germany) are prospective observational cohort studies
 - REALITY-WW evaluated usage, factors for therapy decision, and clinical response of FD Ibr+Ven in routine clinical practice in pts with CLL across 58 sites in Europe, the Middle East, and Latin America⁴
 - REALITY-2 assessed treatment adherence, effectiveness, and safety outcomes in pts with CLL receiving Ibr+Ven in an RW setting in Germany⁵
- Here we present pooled data from REALITY-WW and REALITY-2 to understand the clinical response, safety, and factors for therapy decision of FD Ibr+Ven in routine clinical practice

Results

Patients

- At data cutoff (REALITY-WW, August 2025; REALITY-2, March 2025), 181 pts from both studies received FD Ibr+Ven (REALITY-WW, 133; REALITY-2, 48)
- The median time on study was 6.7 months
- Median age was 66.0 years, with 42.5% of pts aged < 65 years and 57.5% of pts aged ≥ 65 years; 64.1% were male
- Median duration of treatment exposure was 6.6 and 3.3 months for Ibr and Ven, respectively

Table 1: Baseline patient characteristics

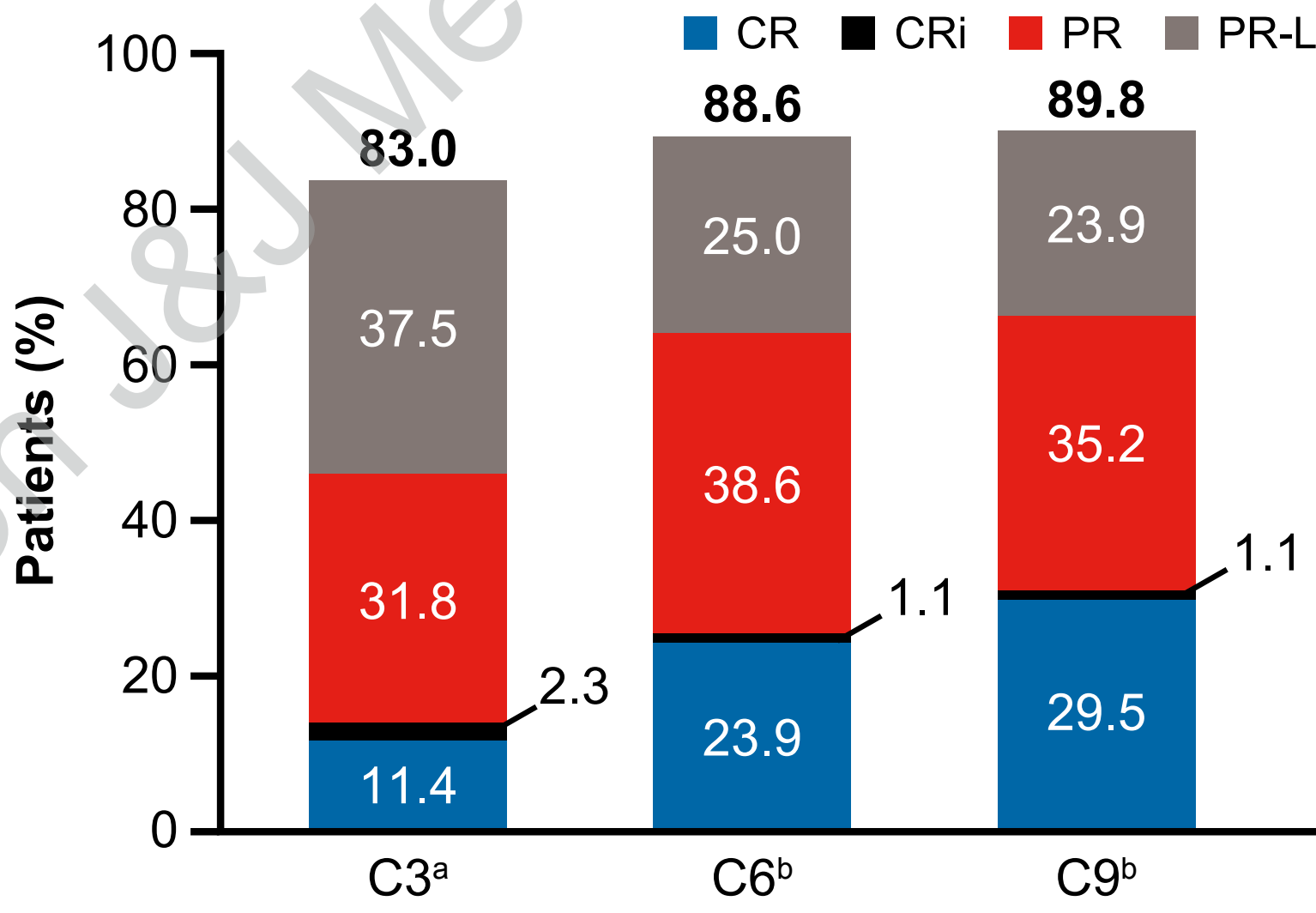
Characteristic	All treated pts (N = 181)
Median time on study (range), months	6.7 (0.1-19.0)
Median age (range), years	66.0 (37.0-87.0)
Pts aged < 65 years, %	42.5
Pts aged ≥ 65 years, %	57.5
Sex, n (%)	
Female	65 (35.9)
Male	116 (64.1)
Median duration of treatment exposure (range), months	
Ibr	6.6 (0.1-15.9)
Ven	3.3 (0.1-11.4)
Median relative dose intensity (range), (%) ^a	
Ibr	97.1 (29.2-222.1)
Ven	77.7 (2.7-105.0)
ECOG PS, n (%)	
0-1	156 (86.1) ^b
2	3 (1.9) ^b
CIRS score > 6, n (%)	
< 65 years	21 (12.5) ^c
≥ 65 years	17 (18.3) ^e
TP53 mutation, n (%)	11 (6.4) ^f
Unmutated IGHV, n (%)	88 (50.6) ^g

^aRelative dose intensity (%) = (Average daily dose (mg) / Expected dose intensity per protocol (mg))^h*100. ^b159 assessed. ^c168 assessed. ^d75 assessed. ^e93 assessed. ^f173 assessed. ^g174 assessed. CIRS, Cumulative Illness Rating Scale; ECOG PS, Eastern Cooperative Oncology Group performance status.

ORR in FD Ibr+Ven patients

- ORR was assessed in a subset of pts from REALITY-WW (88 pts) with ≥ 1 post-baseline assessment
- ORR was 89.8% (95% confidence interval [CI], 83.44-96.10) at the end of 9 treatment cycles (3 months of Ibr and 6 months of Ibr+Ven) per iwCLL 2018 criteria, including complete response (CR; 29.5%), CR with incomplete hematological recovery (CRI; 1.1%), partial response (PR; 35.2%), and PR with lymphocytosis (PR-L; 23.9%). Stable disease (SD) occurred in 8.0% of pts (Figure 1)

Figure 1: Overall response rates

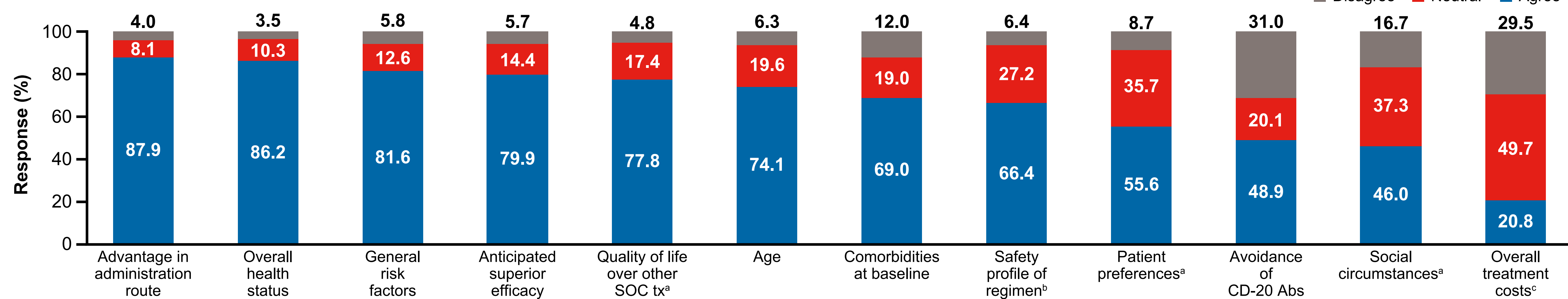


n = 88; ^a5 (5.7%) and ^b2 (2.3%) pts not evaluable. C, Cycle.

Factors influencing the decision to initiate FD Ibr+Ven

- Administration route advantage (87.9%), overall health status (86.2%), and general risk factors (81.6%) were the most common factors associated with decision to initiate FD Ibr+Ven (Figure 3)
- Avoidance of CD-20 antibodies (48.9%), social circumstances (46.0%), and overall treatment costs (20.8%) were among the least important factors (Figure 3)

Figure 3: Physician questionnaire results



n = 174, physician's treatment decision questionnaire performed. Note: Agree/Strongly agree combined, Disagree/Strongly Disagree combined. Neutral indicated neither agreed or disagreed. ^aAnswers only available for 126 pts or ^b125 pts (REALITY-WW). ^cAnswers only available for 173 pts. Ab, antibody; SOC, standard of care; tx, treatment.

Methods

- REALITY-WW and REALITY-2 included pts with untreated CLL/SLL from hospitals and medical institutions where Ibr+Ven was routinely used
- Pts included were aged ≥ 18 years with a confirmed CLL/SLL diagnosis requiring 1L treatment per International Workshop on CLL (iwCLL) 2018 criteria
 - Pts received 3 cycles of Ibr, followed by 12 cycles of FD Ibr+Ven (Ibr 420 mg/d; Ven, 5-week ramp-up to 400 mg/d)
 - The decision to start FD Ibr+Ven was made prior to and independent of pt enrollment
- The primary end point was overall response rate (ORR) per iwCLL 2018 criteria
- Secondary end points included treatment-emergent adverse events (TEAEs), tumor lysis syndrome (TLS) risk, and factors influencing physician decision-making

Safety of FD Ibr+Ven in patients with CLL/SLL

- Gastrointestinal disorders were the most common form of TEAE (31.5%) with diarrhea, dyspepsia, and nausea affecting 15.5%, 7.2%, and 6.6% of pts, respectively
- Muscle spasms (9.9%), fatigue (9.4%), and arthralgia (7.2%) were among other reported TEAEs
- The most common grade 3/4 TEAEs were neutropenia (1.7%), anemia (1.1%), back pain (1.1%), and myocardial infarction (1.1%)
- Treatment-emergent atrial fibrillation occurred in 5.0% of pts (grade 3/4, 0.6%) and hypertension in 2.8% of pts (no grade 3/4 events)
- Dose modification was observed in 10.5% (Ibr) and 3.3% (Ven) of pts, mainly due to treatment-associated TEAE/toxicity/TLS (Table 2)

Table 2: Summary of safety in FD Ibr+Ven patients

Summary of adverse events	Treated pts (N = 181)
Any TEAE	112 (61.9%)
Serious TEAE	23 (12.7%)
Grade 3/4 TEAE	19 (10.5%)
TEAEs leading to discontinuation of ≥ 1 study treatment	7 (3.9%)
TEAEs leading to dose reduction of ≥ 1 study treatment	16 (8.8%)
TEAEs leading to interruption of ≥ 1 study treatment	41 (22.7%)

