# Initiating First-Line Fixed-Duration Ibrutinib and Venetoclax in Patients With Chronic Lymphocytic Leukemia Improves Overall Survival Outcomes to Rates Approximating an Age-Matched General European Population

Paolo Ghia<sup>1,2</sup>, Loic Ysebaert<sup>3</sup>, Ann Janssens<sup>4</sup>, Mohamed Fouad<sup>5</sup>, Claudio A Schioppa<sup>6</sup>, José-Ángel Hernández-Rivas<sup>7</sup>, Alessandra Tedeschi<sup>8</sup>

<sup>1</sup>Università Vita-Salute San Raffaele, Milan, Italy; <sup>2</sup>IRCCS Ospedale San Raffaele, Milan, Italy; <sup>3</sup>Institut Universitaire du Cancer-Oncopole de Toulouse, Toulouse, France; <sup>4</sup>UZ Leuven Gasthuisberg, Leuven, Belgium; <sup>5</sup>Johnson & Johnson Middle East FZ-LLC, Dubai, UAE; <sup>6</sup>Janssen Pharmaceutica NV, Beerse, Belgium; <sup>7</sup>Hospital Universitario Infanta Leonor, Universidad Complutense, Madrid, Spain; 8ASST Grande Ospedale Metropolitano Niguarda, Milano, Italy

# **Key Takeaway**



This pooled analysis demonstrated that first-line fixed-duration ibrutinib+venetoclax provides patients with CLL a life expectancy comparable to the age-matched general European population, which aligns with previous findings of overall survival benefit in treatmentnaive patients with CLL receiving continuous ibrutinib regimens

# Conclusions



This pooled analysis showed that overall survival rates for patients with CLL treated with ibrutinib+venetoclax in the first-line setting were comparable to an age-matched general European population



Comparable overall survival rates versus the respective age-matched general European population were observed for subpopulation of patients aged ≥ 65 years and < 65 years



Overall survival rates were also similar to the age-matched general European population, regardless of IGHV mutation status



Please scan QR code

https://www.congresshub.com/ASH2024/Oncology/Ibrutinib/Ghia The QR code is intended to provide scientific information for individual reference, and the information should not be altered or reproduced in

Vriting assistance was provided by Jennifer Venzie, PhD, of Parexel. This study is sponsored by Janssen Research & Development, LLC, a Johnson & Johnson company.

Disclosures

#### Introduction

Results

CAPTIVATE-FD studies (Table 1)

Median follow-up was 55.7 months

was 65 (57, 70) years

Characteristic

Age, n (%)

Sex, n (%)

**Race, n (%)** 

Non-White/missing

Mutated *TP53*, n (%)<sup>a</sup>

ECOG PS, n (%)

del11q, n (%)

**IGHV**, n (%)

Unknown IGHV

**Overall survival** 

< 65 years

≥ 65 years

Median follow-up, months

Median (Q1, Q3) age at

randomization, years

**Patients** 

- Chronic lymphocytic leukemia (CLL) primarily affects older adults (mean age of diagnosis is approximately 70 years)<sup>1</sup>
- As extending survival is considered the primary goal of cancer treatment, overall survival (OS) is widely regarded as the gold-standard end point in oncology clinical trials<sup>2</sup>
- In the 46-month follow-up analysis of the phase 3 GLOW study, first-line fixed-duration (FD) ibrutinib+venetoclax (lbr+Ven) demonstrated3:
  - Superior progression-free survival over chlorambucil-obinutuzumab (hazard ratio [HR] 0.214, p < 0.0001), which was also observed regardless of IGHV mutation status
- An OS advantage over chlorambucil+obinutuzumab (HR 0.487, p = 0.021), establishing it as the first FD combination to show
- In the FD cohort of CAPTIVATE (CAPTIVATE-FD), Ibr+Ven provided an OS rate of 96% at a median follow-up of 61.2 months<sup>4</sup>

265 patients received first-line FD lbr+Ven across the GLOW and

Pooled study population had a balanced distribution of younger and older

Median (first quartile [Q1], third quartile [Q3]) age at randomization

IGHV mutation status: 59% unmutated, 37% mutated, 4% unknown

GLOW

(n = 106)

55.1

71 (67, 77)

16 (15.1)

90 (84.9)

59 (55.7)

47 (44.3)

101 (95.3)

5 (4.7)

35 (33.0)

58 (54.7)

13 (12.3)

7 (6.6)

20 (18.9)

67 (63.2)

32 (30.2)

7 (6.6)

ECOG PS, Eastern Cooperative Oncology Group performance status.

aln CAPTIVATE-FD, 27 (17.0%) patients had either del17p or *TP53* mutations; 20 (13%) patients had del17p

The OS estimates were comparable between the pooled lbr+Ven-treated

patients and the age-matched general European population (HR [95%

Estimated OS rates for the pooled population for the lbr+Ven-treated

patients were 95%, 93%, and 91% at 36, 48, and 60 months, respectively

confidence interval (CI)] 0.999 [0.567-1.761], p = 0.998; **Figure 1**)

<sup>b</sup>Post hoc analysis of IGHV was used for baseline IGHV mutation status for the GLOW study.

mutations. In the GLOW study, only TP53 mutations were assessed

**CAPTIVATE-FD** 

(n = 159)

55.7

60 (53, 65)

114 (71.7)

45 (28.3)

106 (66.7)

53 (33.3)

147 (92.5)

110 (69.2)

49 (30.8)

16 (10.0)

89 (56.0)

66 (41.5)

7. Janssen Data on File. 8. World Health Organization. Available at: https://apps.who.int/gho/data/view.main.LIFEEUR?lang=en. Accessed September 20, 2024.

Total

(N = 265)

55.7

65 (57, 70)

130 (49.1)

135 (50.9)

165 (62.3)

100 (37.8)

248 (93.6)

17 (6.4)

145 (54.7)

107 (40.4)

13 (4.9)

23 (8.7)

156 (58.9)

98 (37.0)

11 (4.2)

GLOW: 85% of patients were aged ≥ 65 years

CAPTIVATE-FD: 28% of patients were aged ≥ 65 years

Table 1: Baseline characteristics of lbr+Ven-treated patients

# Patients with unmutated IGHV (uIGHV)

those of an age-matched general European population

This analysis was performed for the following:

Patients with mutated IGHV (mIGHV)

Previous studies with continuous lbr-based regimens showed OS rates

comparable to age-matched general US<sup>5</sup> and European<sup>6</sup> populations

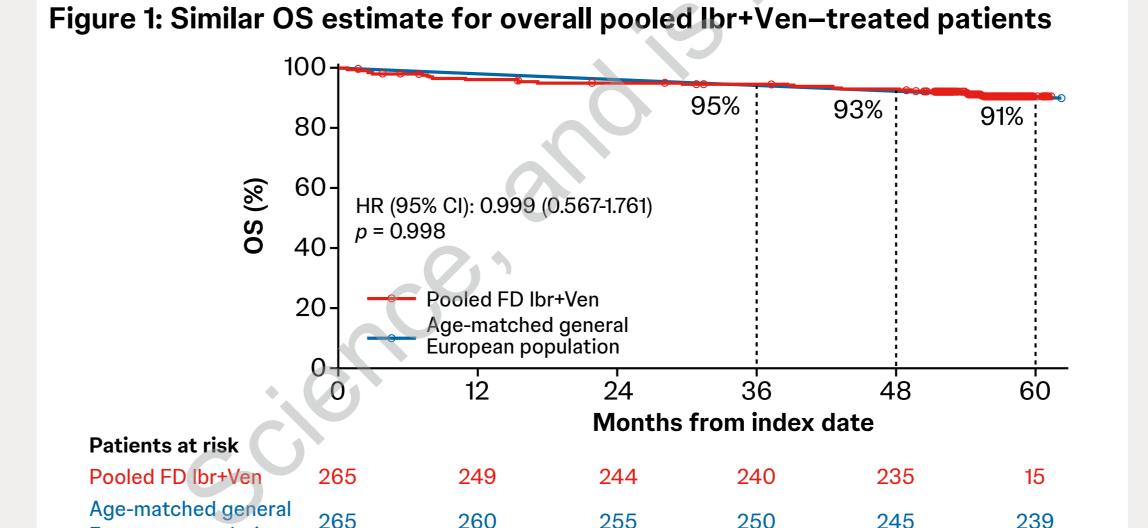
comparable to those of an age-matched general European population

In this study, OS rates in a pooled analysis of patients with treatment-

naive CLL administered FD lbr+Ven in 2 global trials: GLOW (NCT03462719)

and the FD cohort of CAPTIVATE (NCT02910583) were compared with

The current study explores whether the OS rates of FD lbr+Ven are



Methods

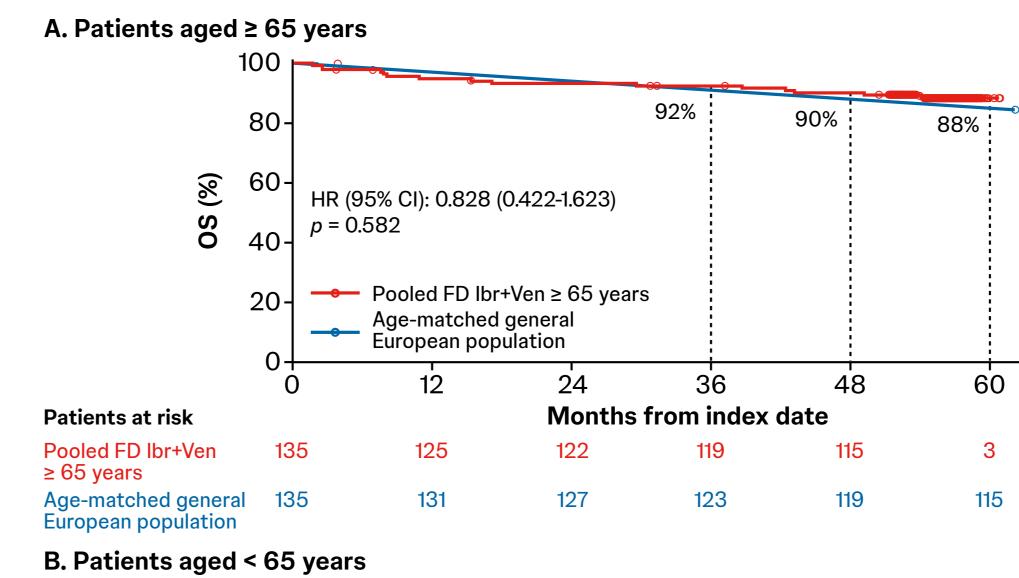
Overall population

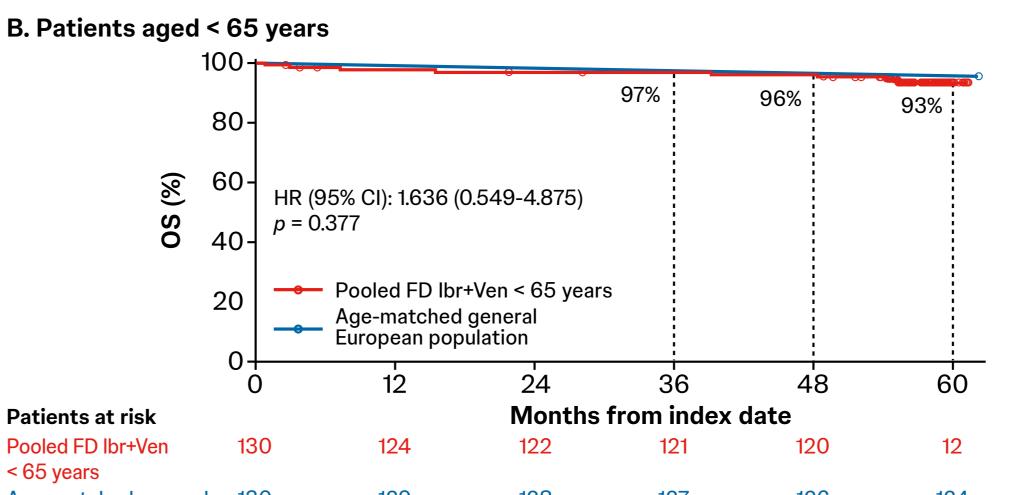
Patients aged ≥ 65 years

Patients aged < 65 years</li>

- OS estimates for FD lbr+Ven-treated patients in older and younger patient subpopulations were comparable to the age-matched general European population:
- Aged ≥ 65 years: HR (95% CI) 0.828 (0.422-1.623), p = 0.582; estimated OS rates for the lbr+Ven-treated patients at 36, 48, and 60 months were 92%, 90%, and 88%, respectively (Figure 2A)
- Aged < 65 years: HR (95% CI) 1.636 (0.549-4.875), p = 0.377; estimated OS rates for the lbr+Ven-treated patients at 36, 48, and 60 months were 97%, 96%, and 93%, respectively (Figure 2B)

## Figure 2: Similar OS estimate for (A) older and (B) younger pooled Ibr+Ven-treated patients versus an age-matched general European population





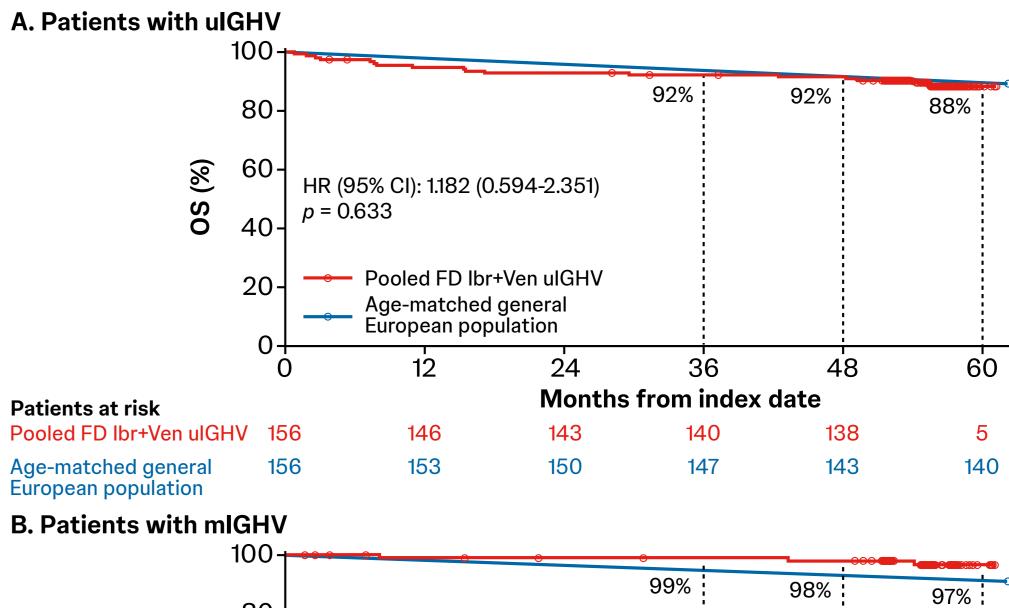
European populatio HR < 1 favored lbr+Ven.

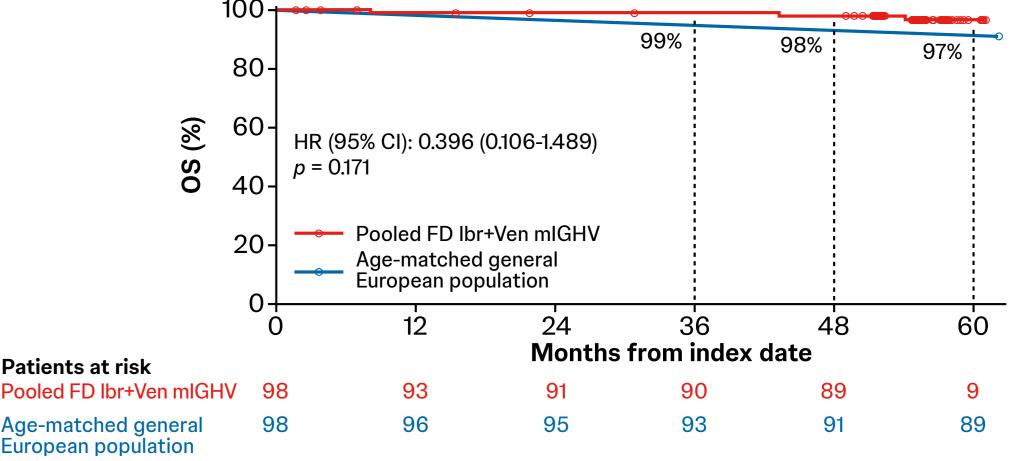
- Median follow-up: GLOW, 55.1 months; CAPTIVATE-FD, 55.7 months<sup>7</sup>
- GLOW study: Post hoc IGHV reclassification was used for baseline status<sup>3</sup>
- OS rates for FD lbr+Ven-treated patients were compared with an age-matched simulated survival rate of a general European population
- Age at randomization was used for analysis
- World Health Organization 2019 life tables were applied for generation of survival probabilities, as this dataset represents the most recent pre-COVID-19 era information available<sup>8</sup>
- To avoid immortal time bias within each interval, available probabilities for 5-year age intervals were converted to a daily scale
- OS was analyzed with the Kaplan-Meier method
- HRs were derived from a Cox proportional-hazards model

patients were 92%, 92%, and 88%, respectively (Figure 3A)

- Patients with uIGHV treated with FD lbr+Ven showed OS estimates comparable to the age-matched general European population (HR [95% CI] 1.182 [0.594-2.351], p = 0.633); estimated OS rates at 36, 48, and 60 months for the lbr+Ven-treated
- In patients with mIGHV, FD Ibr+Ven showed a numerically favorable OS estimate, but this was not statistically significant (HR [95% CI] 0.396 [0.106-1.489], p = 0.171) (**Figure 3B**)
- Estimated OS rates at 36, 48, and 60 months for the lbr+Ven-treated patients were 99%, 98%, and 97%, respectively

Figure 3: Similar OS estimate for pooled lbr+Ven-treated patients based on IGHV mutation status versus an age-matched general European population





### Limitations

HR < 1 favored lbr+Ven.

- Survival data from the lbr+Ven and general European population were matched only for age and not for other individual patient characteristics
- This analysis uses simulated survival data from a general population, which may result in a more heterogeneous control group compared with a randomized controlled trial
- CAPTIVATE and GLOW studies are global trials and have enrolled patients from non-European countries
- Mortality rates of the age-matched general European population may be affected by other diseases and cancers and therefore should not be considered a healthy control
- The age-matched general European population may include people with pathologies that were exclusion criteria for GLOW and CAPTIVATE clinical trials (eg, patients with bleeding disorders, severe cardiac disorders, central nervous system involvement, Richter's transformation, uncontrolled autoimmune hemolytic anemia, or thrombocytopenia)

Please see our ASH 2024 poster on the 67-month long-term follow-up of the **GLOW study (Poster 1871)** 

### 1. American Cancer Society. Available at: https://www.cancer.org/cancer/types/chronic-lymphocytic-leukemia/about/key-statistics. Accessed September 13, 2024. 2. Delgado A, et al. Am J Cancer Res. 2021;11:1121-1131. 3. Niemann CU, et al. Lancet Oncol. 2023;24:1423-1433. 4. Wierda WG, et al. J Clin Oncol. 2024;42(Suppl 16):7009. 5. Ghia P, et al. Hemasphere. 2024;8:e74. 6. Ghia P, et al. Presented at EHA 2024, June 13-16, 2024, Madrid, Spain. Poster P664.

**B-cell Malignancies** 

