Cross-Study Comparison of Ibrutinib in Combination with Venetoclax (I+V) versus Venetoclax in **Combination with Obinutuzumab** (V+G) in Subjects with Previously **Untreated Chronic Lymphocytic** Leukemia (CLL) and Comorbidities

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Conclusion

The results of this MAIC suggest that I+V could have a PFS, TTNT and OS \mathbf{C} advantage over V+G in the previously untreated CLL patients with comorbidities. However, limitations apply.

Discussion

(i)

After matching, probabilities of I+V being better than V+G exceeded 97% and 98% for all endpoints. when compared to 39.6m and 52.4m follow-up data from CLL14 respectively.

While there are several limitations to this MAIC, it uses all the available evidence to compare I+V and V+G in absence of a head-to-head study.

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https://www.congresshub.com/Oncology/EHA2024/Ibrutinib/Jimenea

The QR code is intended to provide scientific information for individual reference, and the information should not be altered or reproduced in any way.

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Disclosures

Jose Angel Hernandez Rivas has consulted Janssen, Roche, AbbVie, BeiGene, AstraZeneca, Sandoz, Novartis, Celltrion and Lilly, received research grants from Janssen, and received fees from speakers' bureau of Janssen Roche, AbbVie, AstraZeneca, BeiGene and Lilly.

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Suzy Van Sanden, Joris Diels, and Liva Andersone are employees of Johnson & Johnson and hold Johnson & Johnson stock.

Introduction

- I+V and V+G are both authorized for use in frontline (1L) CLL in the European Union as fixed duration treatments for adult patients with 1L CLL.¹
- There are currently no head-to-head clinical trials investigating efficacy of I+V and V+G in 1L CLL patients with comorbidities.
- The objective of this study was to evaluate relative efficacy of I+V and V+G for Progression-Free Survival (PFS), Time-to-Next treatment or Death (TTNT) and Overall survival (OS) of 1L CLL patients with comorbidities.

Methods

Data and Method Selection

- The efficacy of I+V and V+G were compared to Chlorambucil in combination with Obinutuzumab (C+O) in patients with comorbidities in GLOW (NCT03462719) and CLL14 (NCT02242942) respectively.
- As both studies had different incl/excl criteria and the populations from both trials differ on baseline characteristics which may impact the relative treatment effect, an anchored MAIC was performed.
- Individual patient-level data (IPD) with a median follow-up of 46 months (m)² are used from the GLOW study.
- For CLL14, only aggregate level data were available. Data with a median follow-up of 39.6m³ and 52.4m⁴ were the closest to 46m. Hazard ratios (HRs) for PFS, OS and TTNT did not remain consistent between these datacuts in CLL14. OS and TTNT improved substantially while PES HR slightly worsened in 52.4m datacut. Therefore, both were used in the MAIC.

Matching

- First, patients who would did not meet inclusion/exclusion criteria of CLL14 (concurrent CIRS ≤ 6 and CrCl≥70 mL/min) were excluded from GLOW.
- For the remaining patients, all baseline characteristics which could potentially affect relative treatment effect and that were reported in CLL14, were matched using a form of inverse probability weighting as described by Signorovitch et al.⁵
- Patients in GLOW IPD who had missing information about any of the characteristics used in matching process were excluded from analysis (53 from main and 62 from sensitivity analysis).
- The following 9 characteristics were used in the matching process (Main Analysis): age, Eastern Cooperative for Oncology Group performance status (ECOG PS), Cumulative Illness Rating Scale score (CIRS), tumor protein 53 mutation (TP53mut) status, immunoglobulin heavy-chain variable gene region (IGHV) status, creatinine clearance (CrCl) level, gender, β 2 microglobulin (β 2-M) level and median time from initial diagnosis.
- Binet stage was used in a sensitivity analysis because of the very poor overlap between the distribution of Binet stages of CLL14 and GLOW severely reduced the effective sample size (ESS).

Bayesian Indirect Treatment Comparison

- The adjusted HRs calculated based on the reweighted GLOW data were compared to the reported HRs from CLL14 to estimate the indirect treatment effect of I+V versus V+O using a Bayesian framework^{5,6} with C+O as the common comparator across both studies.
- For all endpoints, HR with 95% Credible intervals (CrI) and the probability for I+V to be more effective than V+O are reported.

References

Results

- Binet stage in matching process reduced ESS to 56.
- (Figure 2) and 98% (Figure 3) respectively.
- Results were consistent across the different datacuts of CLL14.
- results must be interpeted with caution.

Table 1: Patient Baseline Characteristics Before and After matching

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Characteristic	CLL14 (N=423)	N=211	GLOW MA N=158 ESS=89	SA N=149 ESS=56	A	
Age Median >75 years	71.5 35%	71 34%	71 35%	71 35%	Sensi	
ECOG PS 0 1 2 or 3	45% 43% 12%	35% 53% 12%	45% 43% 12%	45% 43% 12%	B M Sensiti	
CIRS Median >6	8 84%	8 64%	8 84%	8 84%		
TP53mut	10%	4%	10%	10%	Figure 2:	
Unmutated IGHV	61%	65%	61%	61%	A	
CrCl Median (ml/min) <70ml/min	66.4 58%	64.8 60%	66.1 58%	66.1 58%	Sens	
Male	67%	58%	67%	67%	В	
β2-M >3.5 mg/L	61%	72%	61%	61%	U	
Median time from diagnosis	30.2m	35.5m	28.3m	28.3m	Sensi	
Binet stage A	21%	8%	6%	21%		
B C	36% 43%	50% 42%	48% 46%	36% 43%	Figure 3:	

ESS=effective sample size: MA: main analysis: N=sample size SA: sensitivity analysis. % is based on number of patients with reported characteristic information

Α

Limitations

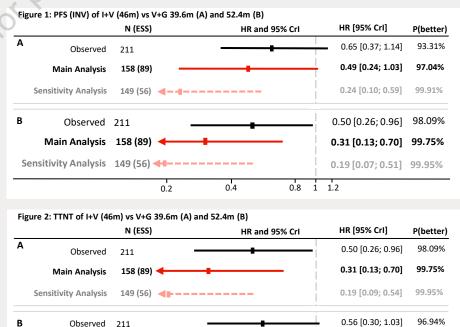
- the results:
- Patients with deletion of 17p were not allowed in GLOW. This difference between populations can not be adjusted for.
- in several published indirect comparisons.⁸⁻¹⁰
- impact on the anchored MAIC is expected to be minimal as it affects both active and comparator arm.
- There may be additional unreported treatment-effect modifying patient baseline characteristics which cannot be accounted for.

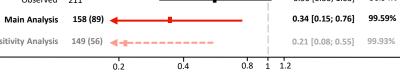
1. European Commission Union Register of Medicinal Products 2022; 2. Niemann CU, et al. Lancet Oncology 2023. Available online on 6 November 2023; 3. Al Sawaf O, et al. Lancet oncology 2020; 21: 1188-200; 4. Al-Sawaf O, et al. J Clin Oncol. 2021; 20;39(36):4049-4060; 5. Signorovitch JE, et al. Value Health. 2012;15(6):940-7; 6. Dias S, et al. Med Decis Mak. 2013;33(5):607–17; 8. Molica S, et al. Clin Lymphoma Myeloma Leuk. 2021; 21(4):216-223; 9.Sheng Z, et al. Leuk Lymphoma. 2020; 61(14):3432-3439; 10.Davids MS, et al. Clinical Therapeutics. 2021; 42:10 1955-74

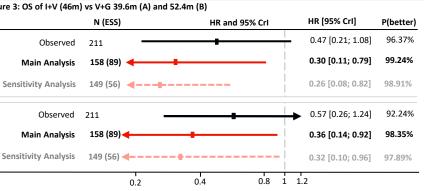
Matching the 9 characteristics for main analysis resulted in an effective sample size (ESS) of 89 (Table1). Sensitivity analysis population that included

Comparative analyses between the two trials suggested that I+V improves PFS, TTNT and OS over V+G, with probabilities over 97% (Figure 1), 99%

Inclusion of binet stage in matching process further improved the HRs and probabilities in favour of I+V, however due to the reduction in ESS these







CrI=Credible interval: ESS=effective sample size: HR=hazard ratio: INV: investigator-assessed N=sample size; P(better)=probability that I+V is better than V+G

• There are several limitations - potential sources of bias - that cannot be accounted for in this MAIC. They need to be considered for the interpretation of

- Treatment with Chlorambucil was longer in CLL14 than in GLOW, which may have impacted relative treatment effect. The same limitation also applies

- Measurement of progression was more strict in GLOW, requiring computer or magnetic imaging regardless of suspected progression. However, the

B-cell Malignancies

