

# UNIVERSITARIO DE ALBACETE

## EFFECTIVENESS AND SAFETY OF IBRUTINIB IN CHRONIC LYMPHATIC LEUKAEMIA: MULTICENTRE STUDY



**ATC code:** L01 - Cytostatics B. Serna Serrano<sup>1</sup>, I. Casas Hidalgo<sup>2</sup>, M. Díaz Rangel<sup>1</sup>, A. Valladolid Walsh<sup>1</sup>, F. Sánchez Rubio<sup>1</sup>, M. Clemente Andújar<sup>1</sup>, S. Plata Paniagua<sup>1</sup>, S. Ruiz Sánchez<sup>1</sup>

**ABSTRACT NUMBER** 4CPS-292

<sup>1</sup>Complejo Hospitalario Universitario de Albacete, Pharmacy, Albacete, Spain. <sup>2</sup>Hospital de Hellín, Pharmacy, Hellín, Spain.

**Section 4: Clinical Pharmacy Services** 

### **BACKGROUND AND IMPORTANCE**

Ibrutinib is a potent Burton tyrosine kinase inhibitor involved in the proliferation and survival of chronic lymphatic leukaemia (CLL) B-cells. This study was mainly motivated by suspensions for toxicity.

> AIM AND **OBJECTIVES**



The objective is to analyse the **effectiveness** and safety of ibrutinib in CLL.

#### MATERIALS AND METHODS

Retrospective observational study including all patients with CLL treated with ibrutinib until September-2020 from two hospitals. Data were obtained from Farmatools® and clinical records. SPSS Statistics® v17.0 was used for statistical analysis. The analyzed variables were:

DEMOGRAPHIC AND CLINICAL DATA (D/C)	TREATMENT	EFFECTIVENESS	SAFETY
Number of patients	Previous lines	Progression-free-survival ( <b>PFS</b> ) and overall-survival ( <b>OS</b> ) using Kaplan-Meyer statistical analysis.	The most frequent number, type and degree
Sex and age	(PL <sub>IBRUTINIB</sub> )		of adverse events (AE) according to the
Presence of mutations in chromosome TP53 (mut-TP53) and deletion of	Duration of treatment (DT <sub>IBRUTINIB</sub> )		Common Terminology Criteria for Adverse Events (CTCAE) v4.03
chromosome 17 ( <b>del17p</b> )			Necessary treatment modifications (TM)
Progression to Richter (PR)			(dose reduction ( <b>DR</b> ); treatment suspension ( <b>TS</b> ); both ( <b>DR-TS</b> )).

#### RESULTS

- Effectiveness: at 12-24 months, the PFS was 79.3%-72.8%; the OS was 85.1%-76.4%. Mean values obtained were  $\bar{x}PFS=38$  months  $\pm$  3.3 [95% CI 31.7-44.5] and  $\bar{x}OS=40.5$  months  $\pm$  2.9 [95% CI 34.8-46.2].
- Safety: The most frequent AE (≥15%) were diarrhoea, pneumonia, skin rash and haematomas. The most frequent G3-4 AE ( $\geq$ 5%) were neutropenia, pneumonia, skin rash, anaemia and atrial fibrillation. A **53% TM** by AE: 23% TS, 19% DR-TS and 11% DR.

D/C	TREATMENT
60 patients	PL <sub>IBRUTINIB</sub>
58% Male; median 80	56% one-third;
years old (55-98)	3% ≥four
Mut-TP53 (8.3%);	Median
Del17p (15%)	DT <sub>IBRUTINIB</sub>
<b>DCIL</b> /P (15/0)	13.5 months
PR (8.3%)	(1-53)

#### **CONCLUSION AND RELEVANCE**

The effectiveness and safety results obtained were similar to those of the pivotal studies (PS). The PFS and **OS** at 12-24 months of our study (79.3%-72.8% and 85.1%-76.4%) were lower than the results of the PS (89.8%-82.3% and 90.2%-89.6%). With regard to the safety data, the PS show lower dropout rates due to AE (6% vs 23%) and lower dose reductions (8% vs 19%) although the toxicity profile and the most frequent G3-4 AE's were similar to the PS.



REFERENCES AND/OR ACKNOWLEDGEMENTS

No conflict of interest. DOI: 10.1056/NEJMoa1400376 - DOI: 10.1056/NEJMoa1215637 https://www.ema.europa.eu/en/documents/assessment-report/imbruvica-epar-publicassessment-report en.pdf







25