



OCTOBER 6-9, 2023-BOSTON

BACKGROUND

- Chronic lymphocytic leukemia (CLL) is the most frequent leuker more frequent in older adults.
- Bruton's tyrosine kinase inhibitors (BTKi) have revolutionized the displacing immunochemotherapy treatment, along with other targ therapies, in almost all patient profiles
- Selectivity of kinome inhibition of these drugs means that the first and second generation BTKi are different, resulting in high atrial fibrillation and arterial hypertension, mainly in patients treated second line or later, while maintaining their efficacy.
- Real-life studies are needed to be able to demonstrate these ef frontline in a more heterogeneous population, without the restrict and inclusion criteria required in clinical trials

OBJETIVES

- . Study the baseline characteristics of the treated population.
- 2. Define the **response rate**, and **adverse effect** profile of patients Ibrutinib or Acalabrutinib and compare them with each other.

PATIENTS AND METHODS

An observational, retrospective, multicenter, retrospective study was Patients with in treatment with Ibrutinib or Acalabrutinib in first were included. Demographic data, comorbidity, cytogenetic an disease data, adverse effect profile, comprehensive geriatric as applicable) and treatment response evaluation data are collected.

A total of **91 patients** in 4 Spanish centers were included with a m 73.22 years (SD 11.06). Fifty-three (58.2%) were male. Fifty-three treated in frontline, 31.9% (29) in second line and 9.9% (9) in subse Acalabrutinib was used in 25 (27.5%) patients and Ibrutinib in 66 (72.5%). Differences were shown between these two BTKis in terms of line of treatment, with the majority being treated first (P=0.006) and Rai stage, with Rai II predominating (P=0.014). No differences were found between the two BTKis according to the rest of the characteristics.

SAFETY PROFILE IN PATIENTS WITH CHRONIC LYMPHOCYTIC L UNDERGOING TREATMENT WITH 1ST AND 2ND GENERATION BRUTC **KINASE INHIBITORS: MULTICENTRIC REAL-WORLD EXPERI**

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RESULTS

16 (64.0%) 1 (4.0%) 0 (0.0%) 9 (36.0%) 9 (36.0%) 6 (24.0%) 1 (4.0%)	44 (66.7%) 1 (1.5%) 5 (7.6%) 13 (19.7%) 21 (31.8%) 9 (13.6%) 18 (27.3%)	1.000 0.476 0.043
1 (4.0%) 0 (0.0%) 9 (36.0%) 9 (36.0%) 6 (24.0%) 1 (4.0%) 7 (28.0%)	1 (1.5%) 5 (7.6%) 13 (19.7%) 21 (31.8%) 9 (13.6%) 18 (27.3%)	0.476 0.043
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6 (24.0%) 1 (4.0%) 7 (28.0%)	9 (13.6%) 18 (27.3%)	
7 (28 0%)	18 (27.3%)	
7 (28 0%)		
7 (28 0%)		0.937
/ (20.0%)	21 (31.8%)	
11 (44.0%)	27 (40.9%)	
7 (28.0%)	18 (27.3%)	
		0.475
3 (12.0%)	12 (18.2%)	
4 (16.0%)	4 (6.1%)	
2 (8.0%)	6 (9.1%)	
>6 13 (52.0%)	36 (54.5%)	1.000
		0.013
21 (84.0%)	32 (48.5%)	
4 (16.0%)	25 (37.9%)	
0 (0%)	7 (10.6%)	
0 (0%)	2 (3.0%)	
8 (32.0%)	15 (22.7%)	0.523
1 (4.0%)	7 (10.6%)	0.563
7 (28.0%)	12 (18.2%)	0.459
ise 10 (40.0%)	30 (45.5%)	0.817
23 (92.0%)	58 (87.9%)	0.853
6 (24.0%)	14 (21.2%)	0.998
3 (12.0%)	9 (13.6%)	1.000
4 (16.0%)	10 (15.2%)	1.000
5 (20.0%)	16 (24.2%)	0.881
15 (60.0%)	26 (39.4%)	0.127
1 (4.0%)	5 (7.6%)	0.888
12 (48.0%)	35 (53.0%)	0.846
7 (28.0%)	16 (24.2%)	0.922
5 (20.0%)	25 (37.9%)	0.171
5 (20.0%)	6 (9.1%)	0.287
7 (28.0%)	11 (16.7%)	0.359
	7 (28.0%) 3 (12.0%) 4 (16.0%) 2 (8.0%) 3 >6 13 (52.0%) 3 >6 13 (52.0%) 4 (16.0%) 0 (0%) 0 (0%) 8 (32.0%) 1 (4.0%) 7 (28.0%) 3 (12.0%) 4 (16.0%) 3 (12.0%) 4 (16.0%) 5 (20.0%) 15 (60.0%) 1 (4.0%) 12 (48.0%) 7 (28.0%) 5 (20.0%) 5 (20.0%) 5 (20.0%) 7 (28.0%) 5 (20.0%) 7 (28.0%) 5 (20.0%) 7 (28.0%) 5 (20.0%) 5 (20.0%) 7 (28.0%)	7 (28.0%) 18 (27.3%) 3 (12.0%) 12 (18.2%) 4 (16.0%) 4 (6.1%) 2 (8.0%) 6 (9.1%) $x > 6$ 13 (52.0%) 36 (54.5%) 21 (84.0%) 32 (48.5%) 0 (0%) 7 (10.6%) 0 (0%) 7 (10.6%) 0 (0%) 2 (3.0%) 8 (32.0%) 15 (22.7%) 1 (4.0%) 7 (10.6%) 7 (28.0%) 12 (18.2%) use 10 (40.0%) 30 (45.5%) 23 (92.0%) 58 (87.9%) 6 (24.0%) 14 (21.2%) 3 (12.0%) 9 (13.6%) 4 (16.0%) 10 (15.2%) 5 (20.0%) 16 (24.2%) 15 (60.0%) 26 (39.4%) 1 (4.0%) 5 (7.6%) 12 (48.0%) 35 (53.0%) 7 (28.0%) 16 (24.2%) 5 (20.0%) 25 (37.9%) 5 (20.0%) 25 (37.9%) 5 (20.0%) 25 (37.9%) 5 (20.0%) 6 (9.1%) 7 (28.0%) 11 (16.7%)

With respect to the development of cardiac toxicity, 19 (20.9%) patients suffered some cardiotoxic event, 3 (3.3%) in patients on acalabrutinb and 16 (17.6%) on ibrutinib, with no significant differences found between the two drugs (p=0.2). No significant differences were found with respect to other toxicities (hematologic, digestive, bleeding and infections). Table 2

nt, with the (P=0.014). No racteristics.

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Table

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ospital, Madrid, Spa	ain uic	© © UNIDAD DE INNOVACIÓN		A
2. Toxicity profile				
Hypertension	0 (0.0%)	14 (21.2%)	0.029]
Infection	6 (24.0%)	19 (28.8%)	0.846	
Cardiac toxicity	3 (12.0%)	16 (24.2%)	0.320	
Bleeding	5 (20.0%)	20 (30.3%)	0.472	
Hematological	11 (44.0%)	30 (45.5%)	1.000	
Gastrointestinal toxicity	4 (16.0%)	18 (27.3%)	0.397	
Other toxicity	6 (24.0%)	17 (25.8%)	1.000	
Global toxicity	20 (80.0%)	58 (87.9%)	0.533	
ferences in term	ns of progressio	n-free surviva	l or overall	surviva
0,8	"	Acalabrutinib Ibrutinib		
0,6				
0,4	+	DTIZ		
0,2	P=0,363	BIKIEventsAcalabrutinib0Ibrutinib7	CensoredMedian FU (i25NR5957	months) 95% NR NR 48.9-65

No c were

Figul



Figure 2. Overall Survival



BTKI have changed the treatment of CLL, although the secondgeneration iBTKs have a safer cardiovascular profile and are just as effective in our cohort, even in the frontline.

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P=0,216						
P=0,216	BTKi	Events	Censored	ed Median FU	U (months)95%	% CI
P=0,216	BTKi Acalabrutinib	Events 0 0	Censored 25	ed Median FU NI	U (months) 95% NR N	<mark>% CI</mark> IR

CONCLUSIONS

