

POTENZA, 2 LUGLIO 2025

Ospedale San Carlo – Aula B



Terapia a durata fissa: fitness e stato mutazionale

FRANCESCA R MAURO DISCLOSURES

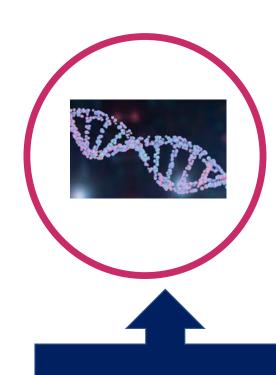
	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
Janssen					x	x	
AstraZeneca					x	x	
Abbvie	x				x	x	
BeOne					x	x	
Lilly					x		

Clinical characteristics of Patients with CLL

Genetic characteristics of CLL cells







IGHV mutational status



TP53 disruption



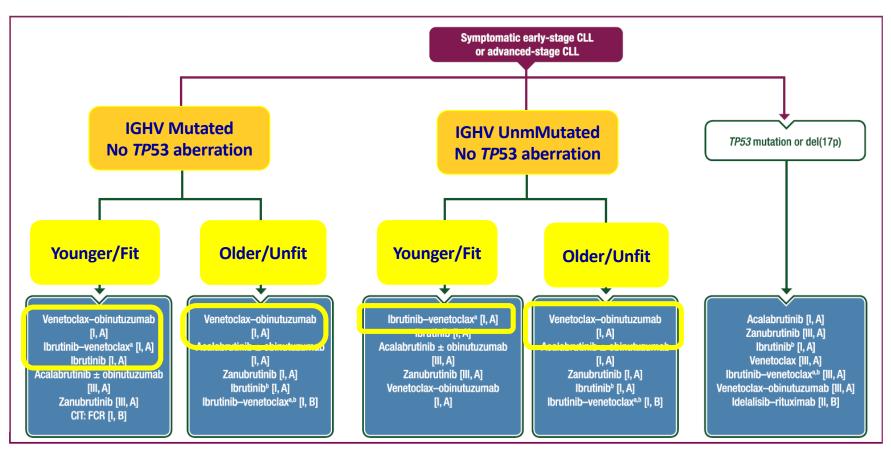
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EXPERT IN CIL

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2024 ESMO Treatment guidelines: 1L treatment for CLL



Eichhorst B & Ghia P Annals of Oncology, 2024



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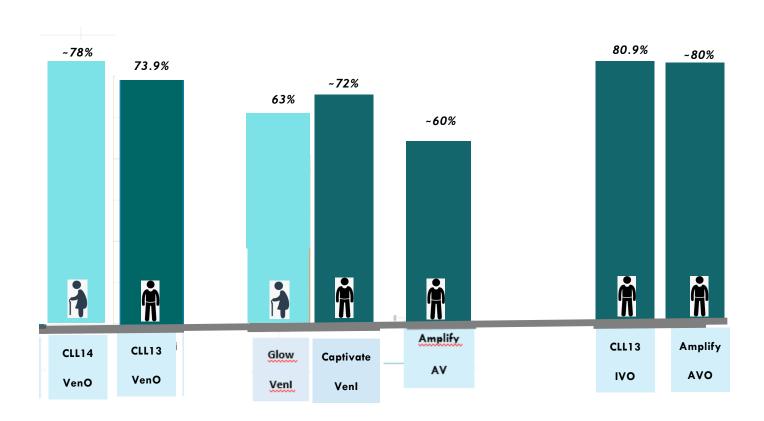
3	Study		Treatment du		Key eligibility criteria		Key patient d	emographics	
	- Clau,		6m 1y	to PD	(Age: Years; CrCl: mL/min)	Median age	Median CIRS	Unmutated IGHV	del(17p)/ <i>TP53</i> ^{mut}
CLL14	11.2	VenO	+		Ago >10 OIDS >5 or OrO! <70	72 years	9	61%	9%/11%
CLL14	, . , _	OClb			Age ≥18, CIRS >6 or CrCl <70	71 years	8	59%	7%/8%
		IVen	•		Age ≥65 or <65 with CIRS >6 or CrCl <70;	71 years	9	63.2%	-/6.6%
GLOW	/ 5–7	OClb	•••		no del(17p) or known <i>TP53</i> ^{mut}	71 years	8	54.3%	-/1.9%

Study		Treatment duration Key eligibility criteria Key patient					demographics		
Study			(Age: Years; CrCl: mL/min)	Median age	Median CIRS	Unmutated IGHV	del(17p)/ <i>TP53</i> ^{mut}		
CAPTIVATE FD Cohort ²⁹⁻³¹	IVen	PD re-treated with I until PD or to acceptable toxicity	Age ≤70; ECOG PS 0–1, adequate hepatic, renal, and hematologic function	60 years	-	56%	17% [‡]		
	IVO			60 years	2	53%	_		
CLL13 ²⁸	VenO	•	Total CIRS score <6, CrCl ≥70 mL/min,	62 years	2	57%	_		
CLLIS	VenR	•—•	no del(17p)/ <i>TP53</i> ^{mut}	62 years	2	57%	_		
	CIT	•••	and hematologic function Total CIRS score <6, CrCl ≥70 mL/min,	61 years	2	57%	-		
	AVO	•—•	no del(17p) or TP53 mutation	61 years	3	58%	-		
	AV	•—•	ECOG PS 0-2	61 years	2	58%	_		
AMPLIFY	-l è inserito al CIT	l'inte rno de ll'RCP di Ibrutinib.		61 years	2	59%	-		



Age & Fitness, IGHV and outcomes with FD therapy for CLL

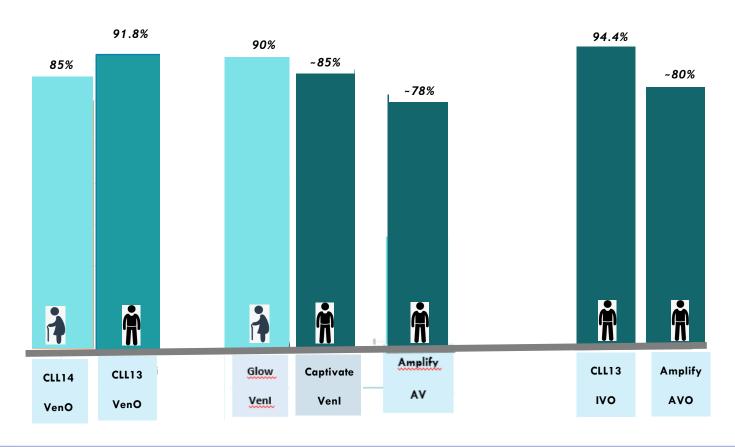
4-year PFS rates with 1L FD therapy for IGHV unmmutated patients



Al-Sawaf O, et al. Lancet Oncol 2020; Eichhorst B, et al. NEJM 2023; Munir et al.N Engl J Med. 2024 Sharman et al., 2024 ASH- Brown et al., 2024 ASH, abstract #1009



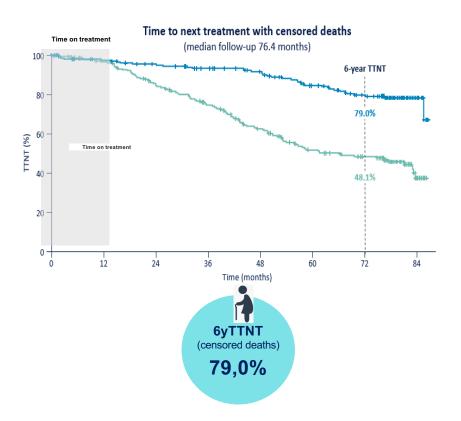
4-year PFS rates with 1L FD therapy for IGHV mutated patients



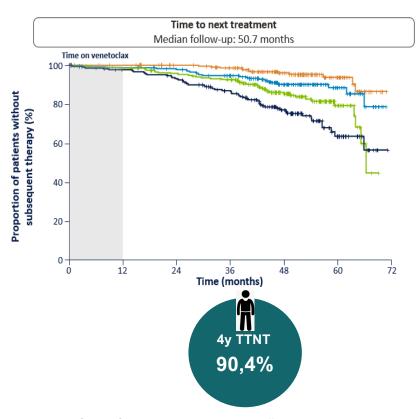


1L FIXED-DURATION TREATMENT FOR CLL: TTNT

V+O - CLL14



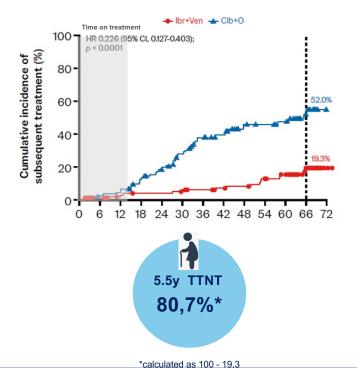
V+O - CLL13



Al-Sawaf et al. Blood 2024: Fürstenau et al. Lancet Oncol 2024

1L Fixed-Duration treatment for CLL: TTNT

V+I - GLOW



V+I – FD- CAPTIVATELOW

At 5.5 years, 73% of patients required no additional treatment



Niemann et al. ASH 2024



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Age & Fitness and Safety profile of CLL patients receiving FD therapy

	CLL14	CLL13
% AEs of clinical interest	V+O	V+O
Median age, yrs	72	62
Gr≥3 ganulocytopenia	52.8	56
Gr≥3 infections	17.4	18.5
Gr≥3 bleeding	-	-
Gr≥3 hypertension	-	1.8
All grades AF	0.5	<1
Cardiac failure	2	<1
Sudden death	-	-
Infusion reaction	9	11

Fighhorst R a al Oral #71 _63rd ASH _2021 · Al_Sawaf O at al Oral \$145 _28th FHA _ luna 8_11 _2023 ·



	GLOW	CAPIVATE	r CLL13
% AEs of clinical interest	V+I°	V+I°	V+I+O*
Median age, yrs	71	60	60
Gr≥3 ganulocytopenia	35	38	48
Gr≥3 infections	29	8	27.7
Gr≥3 bleeding	1.9	2	<1
Gr≥3 hypertension	7.5	6	5.6
All grades AF	14.2	4	9
Cardiac failure	3.8	-	-
Sudden death	1.9	<1	-
Infusion reaction	-	-	4.3

. Moreno C, et al. EHA 2022. Abstract P669 (Poster), . Niemann CU, et al. Oral #93 64th ASH 2022,



Follow-up:

	AMPLIFY	AMPLIFY
% AEs of clinical interest	Ů V+A	V+A+0
Median age, yrs	61	61
Gr≥3 ganulocytopenia	33.3	46.1
Gr≥3 infections	12.4	23.6
Gr≥3 bleeding	2	2.1
Gr≥3 hypertension	2.7	2.1
All grades AF	0.7	2.1
Cardiac failure	0.3	0
Sudden death	-	-
Infusion reaction	-	-

Brown J et al. ASH 2024



	CLL14 ³	CLL13 ¹	GLOW ⁴	CAPIVATE 2	CLL13 ¹	AMPLIFY	AMPLIFY
% AEs of clinical interest	V+O	V+0	V+I°	V+I°	V+I+O*	V+A	V+A+0
Median age, yrs	72	62	71	60	60	61	61
Gr≥3 ganulocytopenia	52.8	56	35	38	48	33.3	46.1
Gr≥3 infections	17.4	18.5	29	8	27.7	12.4	23.6
Gr≥3 bleeding	-	-	1.9	2	<1	2	2.1
Gr≥3 hypertension	-	1.8	7.5	6	5.6	2.7	2.1
All grades AF	0.5	<1	14.2	4	9	0.7	2.1
Cardiac failure	2	<1	3.8	-	-	0.3	0
Sudden death	-	-	1.9	Eichhorst B, e al. Oral #71	-63rd ASH, 2021.; Mor	reno C, et al. EHA 2022	. Abstract P669 (Post
Infusion reaction	9	11 Al-Sawa	of O, et al. Oral S145. 2	8th EHA, June 8-11, 2023;	Niemann CU, et al. Or	al #93 64th ASH 2022E	rown J et al. ASH 2





CAPTIVATE- Safety analysis:

Median time on study 27.9 months

Median Age: 60 yrs
Median time on study
27.9 months

AF: 3-6%

Hypertension: 3-9%.

Table 2. Treatment-emergent AEs

		d patients 9), n (%)
AEs	Any grade	Grade 3/4
Most common AEs*		
Diarrhea	99 (62)	5 (3)
Nausea	68 (43)	2 (1)
Neutropenia	66 (42)	52 (33)
Arthralgia	53 (33)	2 (1)
Hypertension	25 (16)	9 (6)
Neutrophil count decreased	16 (10)	8 (5)
Other AEs of clinical interest		
Atrial fibrillation	7 (4)	2 (1)
Major hemorrhage†	3 (2)	2 (1)
Laboratory safety parameters		
Hematology		
Neutrophils decreased	115 (72)	60 (38)
Platelets decreased	94 (59)	20 (13)
Hemoglobin decreased	31 (19)	0
Chemistry		
Corrected calcium decreased	61 (38)	1 (1)
Potassium increased	39 (25)	4 (3)
Uric acid increased	34 (21)	34 (21)
Creatinine increased	27 (17)	0

Table 2. Treatment-emergent AEs^a in patients with versus without high-risk features.

AEs, π (%)	With high-risk features n = 129	Without high-risk features n = 66
Most common AEs of any grade (o	ccurring in ≥20%	of patients)
Diarrhea	80 (62)	39 (59)
Neutropenia ^b	59 (46)	36 (55)
Nausea	54 (42)	29 (44)
Arthralgia	43 (33)	21 (32)
Headache	33 (26)	19 (29)
Upper respiratory tract infection	32 (25)	20 (30)
Fatigue	30 (23)	22 (33)
Muscle spasms	29 (22)	21 (32)
Vomiting	23 (18)	15 (23)
Increased tendency to bruise	23 (18)	17 (26)
Most common grade 3/4 AEs (occi	urring in ≥5% of p	atients)
Neutropenia ^b	47 (36)	24 (36)
Hypertension	12 (9)	2 (3)
AES of clinical interest (any grade)		
Atrial fibrillation	8 (6)	2 (3)
Major hemorrhage' Serious AEs	2 (2)	14 (21)
	28 (22)	14 (21)
Related to study treatment Fatal AFs	15 (12) 1 (1) ^d	10 (15) 0
1 0101 7 125	1 (1)	U
AEs leading to discontinuation	7 (2)	2 (7)
Ibrutinib only Venetoclax only	3 (2)	2 (3)
Both ibrutinib and venetoclax	•	•
	1 (1)	2 (3)
AEs leading to dose reduction	0 (7)	7 (F)
Ibrutinib only	9 (7)	3 (5)
Venetoclax only Both ibrutinib and venetoclax	14 (11) 3 (2)	7 (11) 4 (6)





Tam et al. Blood, 2022

Allan et al. Clin Cancer Res 2023

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GLOW: Safety analysis

Table S11: Grade 3 or higher treatment-emergent adverse events by preferred term and toxicity grade

		Ibr+Ven Toxicity Grade		Clb+Ob Toxicity Grade			
-	Grade 3	Grade 4	Grade 5	Grade 3	Grade 4	Grade 5	
Analysis set: Safety	106			105			
atients with 1 or more AEs	46 (43-4%)	27 (25-5%)	7 (6-6%)	33 (31-4%)	38 (36-2%)	2 (1.9%)	
referred term							
Neutropenia*	17 (16-0%)	20 (18-9%)	0	23 (21-9%)	29 (27-6%)	0	
Diarrhoea	11 (10-4%)	0	0	1 (1.0%)	0	0	
Hypertension	8 (7-5%)	0	0	2 (1.9%)	0	0	
Atrial fibrillation	7 (6-6%)	0	0	0	0	0	
Theumonia	3 (4-770)	-	£ (1.070)	5 (4.8%)	0	1 (1.0%)	
Hyponatraemia	6 (5-7%)	0	0	0	0	0	
Thrombocytopenia	6 (5-7%)	0	0	16 (15-2%)	5 (4-8%)	0	
	4 (0-070)	-	-	0	0	0	
Cardiac failure	3 (2-8%)	0	1 (0.9%	0	0	0	
Hyperuricaemia	0	4 (3-8%)	0	0	2 (1-9%)	0	
Rash	4 (3-8%)	0	0	0	0	0	
Anaemia	3 (2-8%)	0	0	2 (1.9%)	0	0	
Alanine aminotransferase increased	2 (1.9%)	0	0	3 (2.9%)	0	0	
Bronchitis	2 (1.9%)	0	0	2 (1.9%)	0	0	
Cholecystitis acute	2 (1.9%)	0	0	0	0	0	
Chronic kidney disease	2 (1.9%)	0	0	0	0	0	
Febrile neutropenia	1 (0-9%)	1 (0.9%)	0	3 (2-9%)	0	0	
Haematuria	2 (1.9%)	0	0	0	0	0	
Hypokalaemia	2 (1.9%)	0	0	0	0	0	
Hypophosphataemia	2 (1.9%)	0	0	0	0	0	
Infection	2 (1.9%)	0	0	0	0	0	
Osteoarthritis	2 (1.9%)	0	0	0	0	0	
Sudden death	0	0	2 (1.9%)	0	0	0	
Syncope	2 (1.9%)	0	0	1 (1.0%)	0	0	
Urinary tract infection	2 (1.9%)	0	0	2 (1.9%)	0	0	
Aspartate aminotransferase increased	1 (0-9%)	0	0	3 (2.9%)	0	0	
Herpes zoster	0	0	0	2 (1.9%)	0	0	
Infusion related reaction	0	0	0	3 (2-9%)	0	0	
Leukopenia	0	0	0	3 (2-9%)	0	0	
Lymphopenia	0	0	0	2 (1.9%)	0	0	
Tumour lysis syndrome	0	0	0	6 (5.7%)	0	0	
E=adverse event.	,	,	,	0 (0.170)	,		

AE=adverse event.

Shown are grade 3, 4, and 5 events with frequency 1% or higher.

Adverse events are coded using MedDRA version 23.0.

Study deaths

	I + V (r	n = 106)	GCII	GClb (n =105)				
Reasons for Death	On Treatment	Post Randomize Treatment	On Treatment	Post Randomized Treatment				
Infection-related	1	3	1	13				
Second primary malignancy	1	1	0	7				
Cardiac	2	0	0	4				
Sudden/unknown	2 5	3 6	0 0	4 13				
Progressive disease	0	1	0	2				
Vascular disorders	1	2	0	3				
Other	0	2	1	4				
Total	7	12	2	37				
Total per arm	1	9		39				

Niemann et al, Lancet Oncol 2023





^{*}Includes both "Neutropenia" and "Neutrophil count decreased."

Safety profile of Venetoclax-based regimens and treatment-related logistics

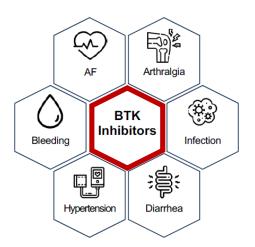
	adve	adverse events, comorbidities and comedication						nt-related stics	genetic	ent prefere subgroup acy and to	s based
<u>Treatment</u> <u>Options:</u>	accumulation of adverse events	bleeding risk	TLS risk	cardiovascular events	reduced renal function	infection risk during treatment	finite duration & treatment-free interval	convenient initiation of therapy	MIGHV	MGHV	17p-/ 7P53 mut
obinutuzumab + venetoclax											
ibrutinib + venetoclax											Taring .
Color co	ode rating	for treatm	ent optio	ns: p	ого 🔼					con	

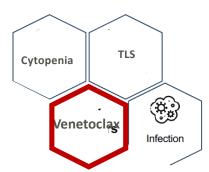
Less prolonged drug exposure = less toxicity

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Screening of patients candidate to treatment





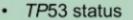
Geriatric assessment

- Physical
- Cognitive
- Emotional
- Comorbidities
- Polypharmacy
- Nutrition
- Social support

* 1

PGA

Disease biology



- FISH
- Mutational status of IGHV

Patient's and caregivers preferences

Comorbidities of interest

OR

- Cardiovascular disorder
- Renal function
- Anticoagulant/anti.PLTS agent
- Infections history
- · Disease-related cytopenia

Evaluation and Monitoring of Cardiovascular safety

- ESC guidelines for baseline risk assessment and monitoring during BTKi therapy¹
- BTKi are commonly used in elderly patients in whom frequent comorbidities coexist at diagnosis that increase the risk of CTR-CVT.
- Caution should be exercised with first and second-generation BTK inhibitors ^{2 especially in} patients ≥ 75 years old or with previous AF¹
- Antihypertensive initiation has been associated with a lower risk of a major adverse CV events (MACE).
- Opportunistic screening for AF by pulse-taking or ECG rhythm strip is recommended at every clinical visit during BTKi therapy.

Recommendations	Classa	Level ^b
BP monitoring and management		
BP measurement is recommended for patients treated with BTK inhibitors at every clinical visit.	1	В
Weekly home monitoring of BP during the first 3 months and every month thereafter should be considered for patients treated with BTK inhibitors.	lla	С
Echocardiography		
Baseline echocardiography is recommended in high-risk patients ^c scheduled to receive BTK inhibitors: Male, age ≥ 65 years, previous history of hypertension,	1	с
TTE is recommended in all patients who develop AF during BTK inhibitor therapy.	1	С
AF		
Opportunistic screening for AF by pulse-taking or ECG rhythm strip is recommended at every clinical visit during BTK inhibitor therapy.	- 1	С

AF: Atrial fibrillation; BP: Blood pressure; BTK: Bruton's tyrosine kinase; CLL: Chronic lymphocytic leukemia; CTR-CVT: Cancer treatment-related cardiovascular toxicity; CV: Cardiovascular disease; CVRD: Cardiovascular renal disease; DM: Diabetes mellitus; ECG: Electrocardiogram; ESC: European society of cardiology?; HF: Heart failure; MACE: Major adverse CV events; QTc: Corrected QT interval; TTE: Transthoracic echocardiography; VHD: Valvular heart disease

^a Class of recommendation. ^b Level of evidence. ^c Male, age ≥ 65 years, previous history of hypertension, DM, QTc ≥ 480 ms, AF, HF, cardiomyopathy or severe VHD. 1. Lyon A, et al. European Heart Journal 2022; 43: 4229–4361; 2. Boriani G, et al. Chemotherapy 2022; doi: 10.1159/000528019.



