



POST-ORLANDO 2025
Novità dal Meeting della Società Americana di Ematologia

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Torino
Centro Congressi Lingotto
19-21 febbraio 2026

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Sessione 3 Leucemia Linfatica Cronica: Terapie di salvataggio

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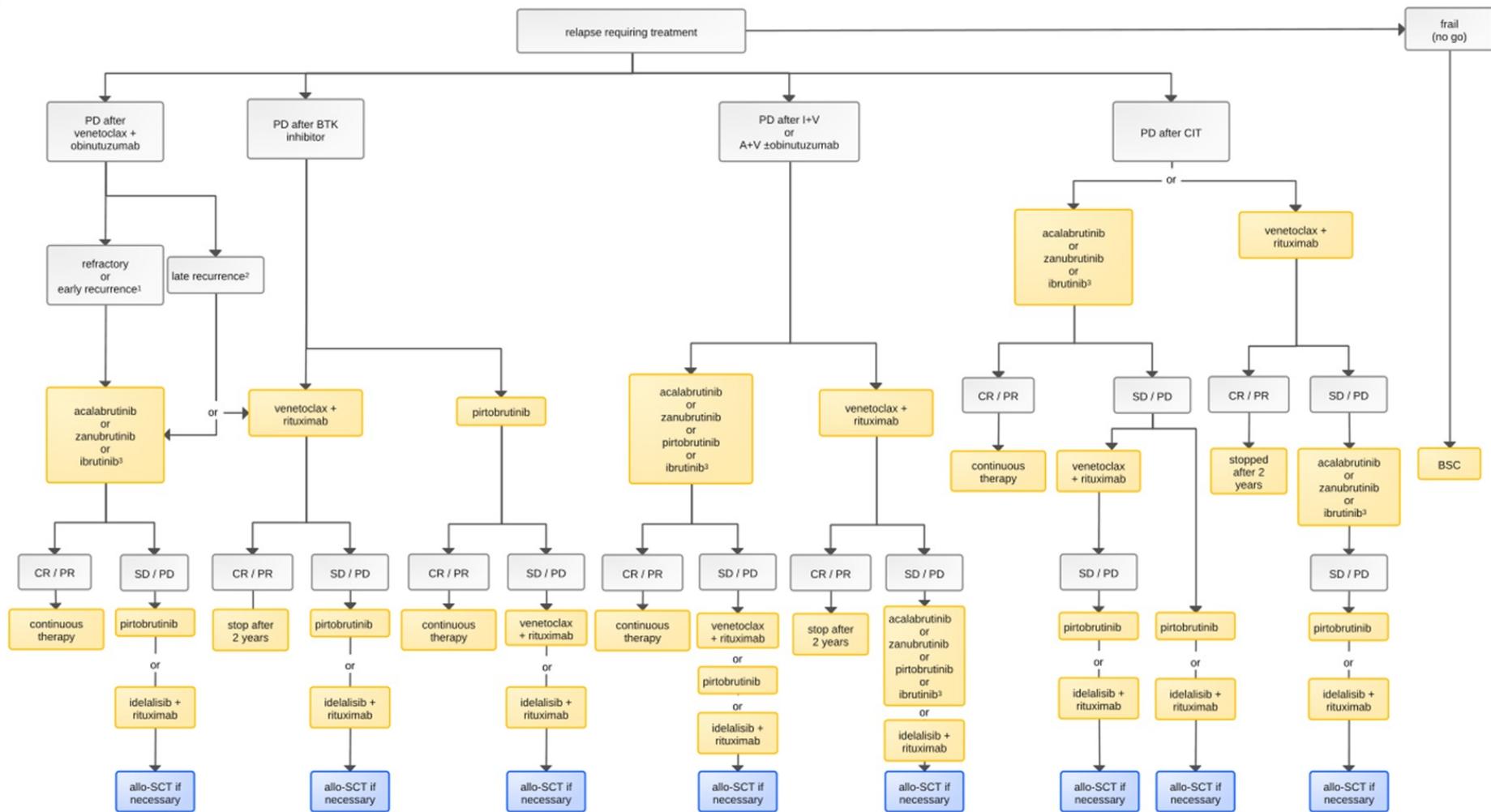
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Torino, 19-21 Febbraio 2026

DICHIARAZIONE NOME COGNOME

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
AbbVie						X	X
AstraZeneca						X	X
BeOne			X			X	X
Johnson&Johnson			X			X	X
Lilly						X	X
MSD			X				
Takeda			X				

Current therapeutic landscape in RR CLL





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What about second-line treatment?

BRUIN-314 Pirtobrutinib vs Ibrutinib: RR cohort

ITT Population Characteristics ^a	Pirtobrutinib n=331	Ibrutinib n=331
Median age, years (range)	67 (39-90)	67 (34-86)
Male, n (%)	213 (64.4)	215 (65.0)
Region, n (%)		
North America	26 (7.9)	21 (6.3)
Europe	174 (52.6)	171 (51.7)
South America	61 (18.4)	64 (19.3)
Asia	42 (12.7)	51 (15.4)
Other ^b	28 (8.5)	24 (7.3)
Histology, n (%)		
CLL	306 (92.4)	294 (88.8)
SLL	25 (7.6)	37 (11.2)
ECOG PS, n (%)		
0-1	319 (96.4)	321 (97.0)
2	12 (3.6)	10 (3.0)
Rai stage ^c , n (%)		
0-II	168 (54.9)	171 (58.2)
III-IV	135 (44.1)	119 (40.5)
Median duration of disease, years (Q1, Q3)	5.62 (2.20, 8.91)	5.26 (1.88, 9.73)
Bulky disease ^d , n (%)	107 (32.3)	116 (35.0)
High-risk molecular features, n/n available (%)		
IGHV unmutated ^e	199/293 (67.9)	183/277 (66.1)
17p deletion presence ^f	50/331 (15.1)	52/331 (15.7)
TP53 mutation ^e	92/284 (32.4)	78/273 (28.6)
Complex karyotype ^{e,g}	104/259 (40.2)	78/227 (34.4)

R/R Population	Pirtobrutinib n=219	Ibrutinib n=218
Median lines of prior systemic therapy, n (range)	1.0 (1-9)	1.0 (1-8)
Prior therapy, n (%)		
BCL2 inhibitor	22 (10.0)	17 (7.8)
Chemotherapy	201 (91.8)	208 (95.4)
Anti-CD20 Antibody	158 (72.1)	166 (76.1)
PI3K inhibitor	6 (2.7)	6 (2.8)
Immunomodulator	1 (0.5)	1 (0.5)
Autologous/Allogeneic Stem Cell Transplant	2 (0.9)	2 (0.9)
Reason for discontinuation of most recent prior therapy ^h , n (%)		
Disease progression	31 (14.2)	35 (16.1)
Toxicity	23 (10.5)	25 (11.5)
Finished course of therapy	148 (67.6)	141 (64.7)
Other	16 (7.3)	16 (7.3)

Baseline characteristics were generally balanced between groups

Woyach J et al, Oral Presentation ASH 2025

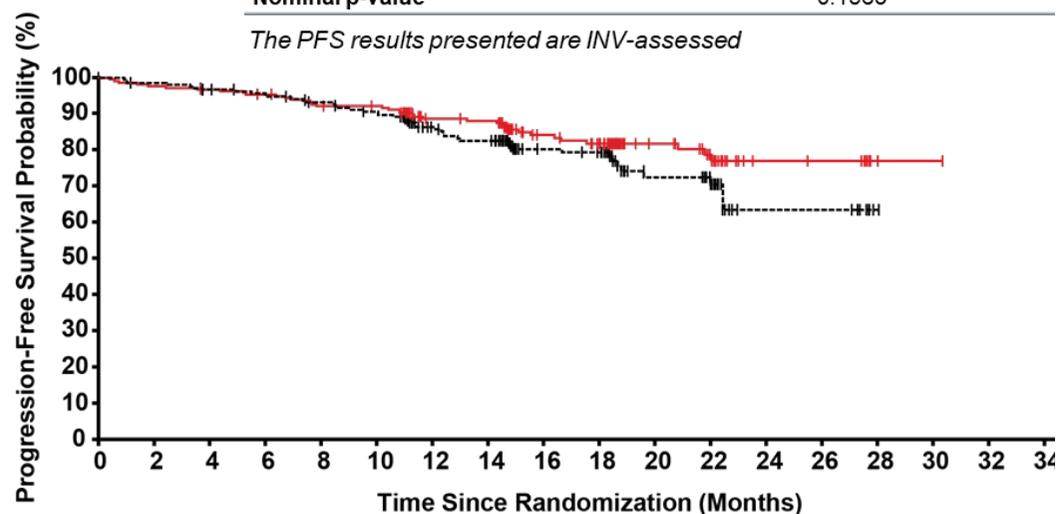
Efficacy data in RR CLL: ORR and PFS

	R/R Population	
	Pirtobrutinib n=219	Ibrutinib n=218
ORR^a (PR or better)		
%	84.0	74.8
95% CI ^b	78.48, 88.61	68.46, 80.39
Nominal p-value ^c	0.0175	
ORR^a ratio		
ORR ratio (95% CI)	1.1233 (1.020, 1.237)	
p-value for NI ^d	<0.0001	
Best Overall Response^e, %		
CR or CRi	3.7	1.8
PR or nPR	80.4	72.9
PR-L	3.2	4.6
SD	6.8	14.2
PD	2.3	1.8
ORR including PR-L		
%	87.2	79.4
95% CI ^b	82.05, 91.33	73.37, 84.53
Nominal p-value ^c	0.0286	

R/R population

	Pirtobrutinib (n=219)	Ibrutinib (n=218)
Number of events, n (%)	37 (16.9)	45 (20.6)
18-month PFS rate (95% CI)	81.7 (75.1, 86.7)	79.2 (72.3, 84.6)
Median follow-up, mo	18.4	15.8
Hazard ratio (95% CI)	0.729 (0.471, 1.128)	
Nominal p-value ^a	0.1563	

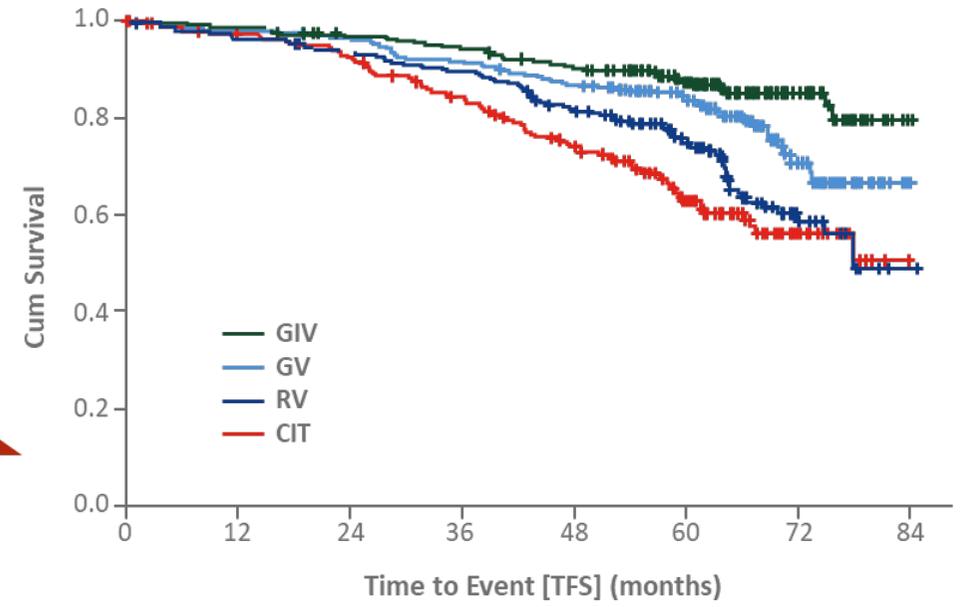
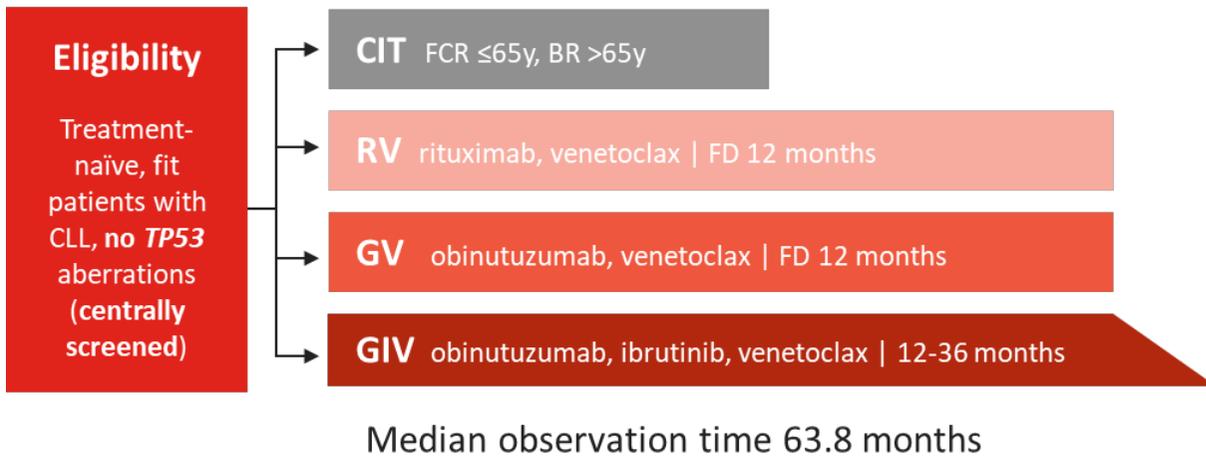
The PFS results presented are INV-assessed



Number at risk

Time (Months)	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
Pirtobrutinib	219	212	209	205	197	195	157	155	106	99	56	46	13	12	3	2	0	0
Ibrutinib	218	205	198	192	186	179	138	131	87	84	43	37	12	12	1	0	0	0

2nd Line after Ven-based regimens: CLL13 GAIA results



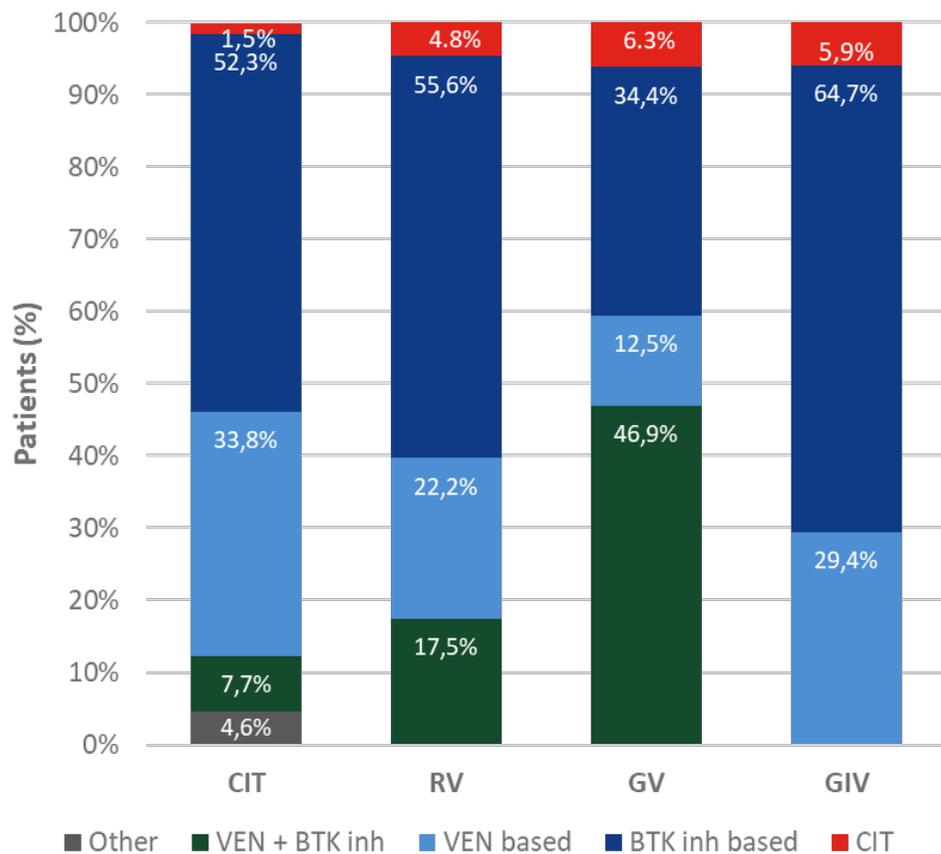
Patients at Risk	0	12	24	36	48	60	72	84
CIT	229	206	196	175	148	88	23	0
RV	237	227	219	210	188	119	33	1
GV	229	224	218	206	196	124	36	0
GIV	231	228	220	214	202	141	48	1

Niemann C et al, Oral Presentation ASH 2025

Baseline characteristics in pts receiving next line treatment

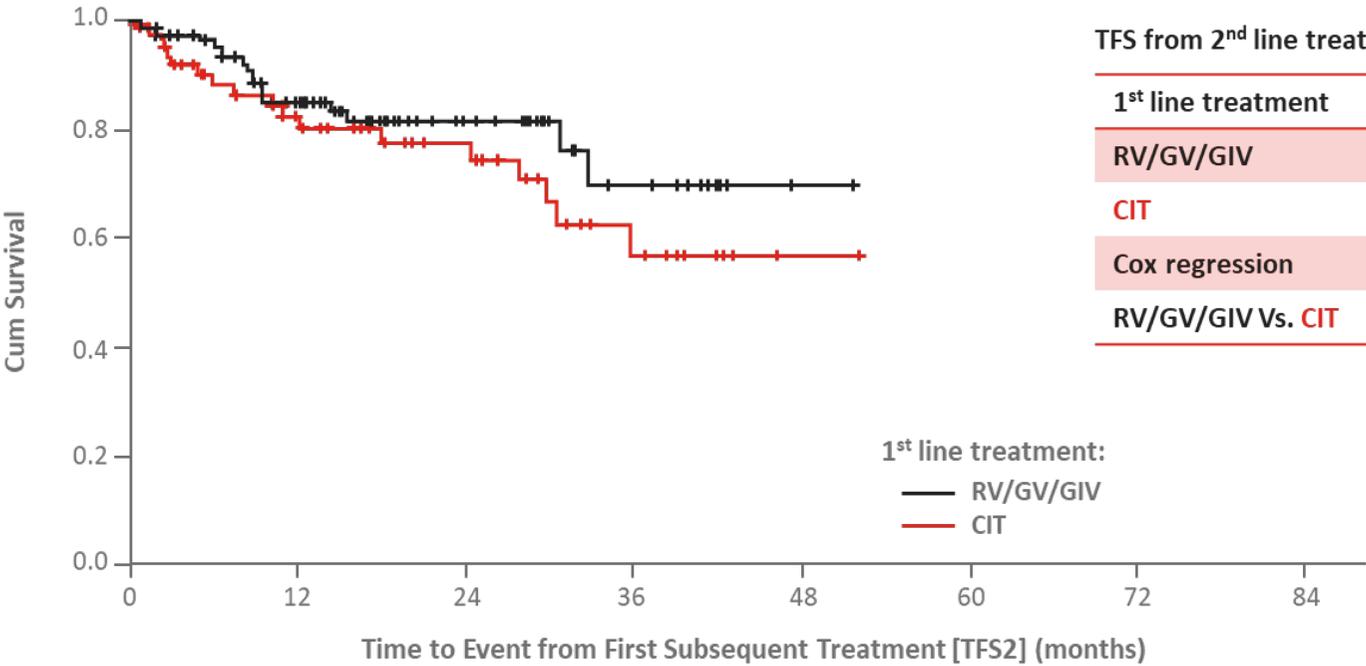
1 st line Tx:	CIT (n 65)	RV (n 63)	GV (n 32)	GIV (n 17)
Age >65	30 (46%)	19 (30%)	8 (25%)	5 (29%)
CIRS >1	42 (65%)	29 (46%)	18 (56%)	14 (82%)
ECOG PS >0	18 (28%)	22 (35%)	10 (31%)	4 (24%)
IGHV unmut	53 (82%)	52 (83%)	27 (84%)	14 (82%)
Complex Karyo ≥3	18 (29%)	15 (24%)	8 (28%)	4 (25%)
Bulky disease ≥5cm	24 (37%)	19 (30%)	15 (47%)	5 (29%)
Serum β ₂ -microglobulin >3.5 mg/L	54 (83%)	46 (73%)	22 (69%)	9 (60%)

Next line treatment based on 1st line treatment



1 st line Tx:	CIT (n 65)	RV (n 63)	GV (n 32)	GIV (n 17)
2nd line Tx:				
CIT	1 (2%)	3 (5%)	2 (6%)	1 (6%)
BTK inh based	34 (52%)	35 (56%)	11 (34%)	11 (65%)
VEN based	22 (34%)	14 (22%)	4 (13%)	5 (29%)
VEN + BTK inh	5 (8%)	11 (17%)	15 (47%)	0
Other	3 (5%)	0	0	0

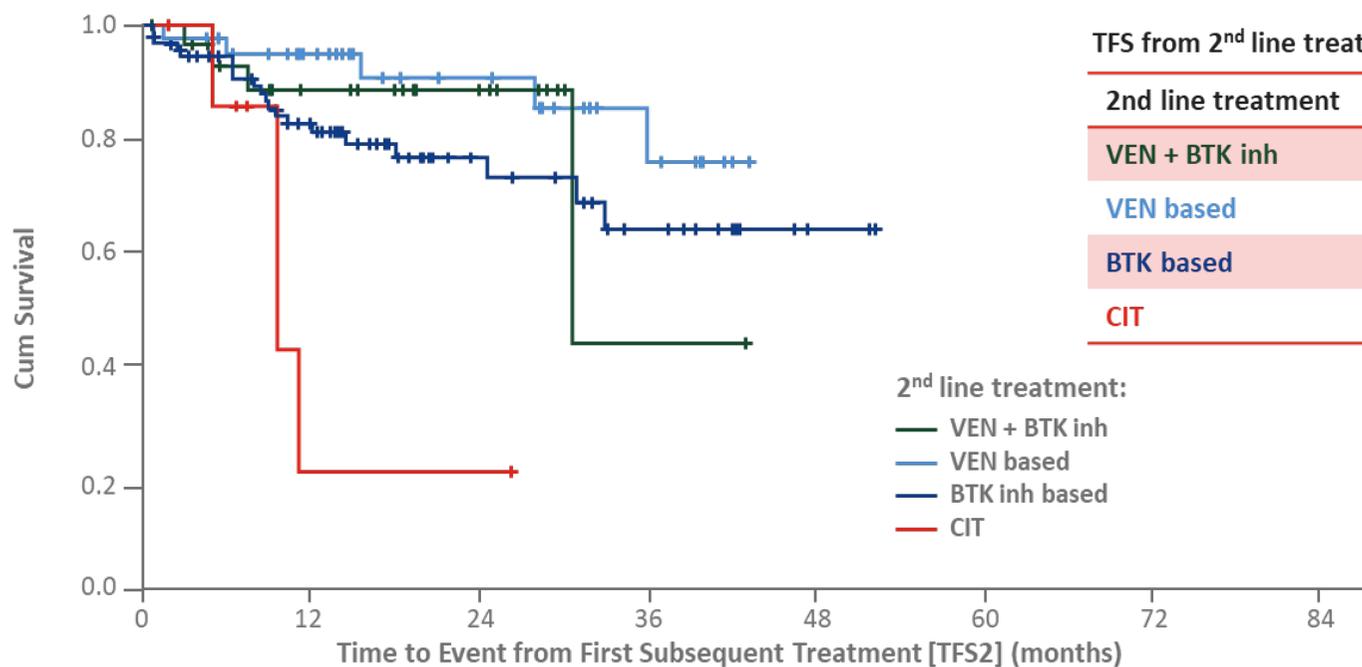
Treatment free survival from 2nd line treatment (TFS2) based on 1st line treatment



TFS from 2 nd line treatment (%)		
1 st line treatment	1-year rate	2-year rate
RV/GV/GIV	84.9	81.5
CIT	82.3	77.6
Cox regression		Hazard ratio (95% CI)
RV/GV/GIV Vs. CIT		0.691 (0.354-1.347)

Patients at Risk	0	12	24	36	48	60
CIT	65	39	25	10	1	0
RV/GV/GIV	112	64	26	10	1	0

Treatment free survival from 2nd line treatment (TFS2)



TFS from 2nd line treatment (%)

2nd line treatment	1-year rate	2-year rate
VEN + BTK inh	88.5	88.5
VEN based	94.9	90.5
BTK based	82.4	76.6
CIT	21.4	21.4

Patients at Risk	0	12	24	36	48	60
CIT	7	1	1	0	0	0
BTK inh based	91	54	22	11	2	0
VEN based	45	30	18	8	0	0
VEN + BKT inh	31	17	9	1	0	0

Patients receiving other treatment are excluded: rituximab for autoimmune disorder (n 2), R-CHOEP for hemophagocytosis (n 1)



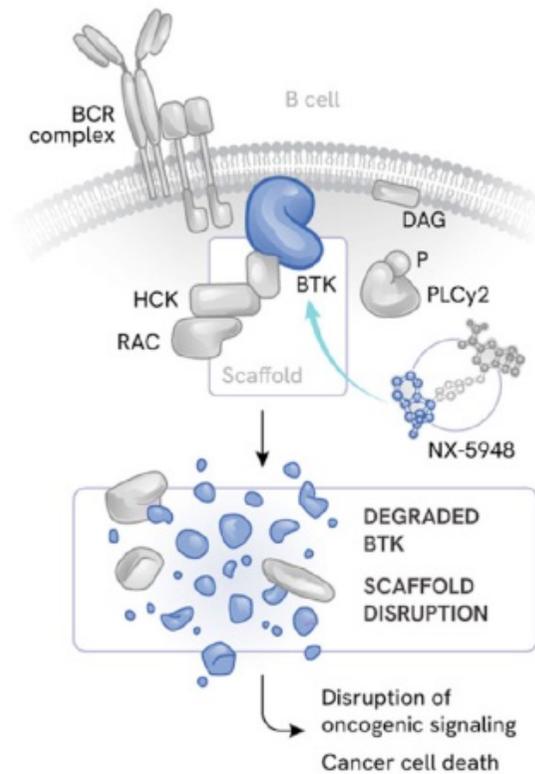
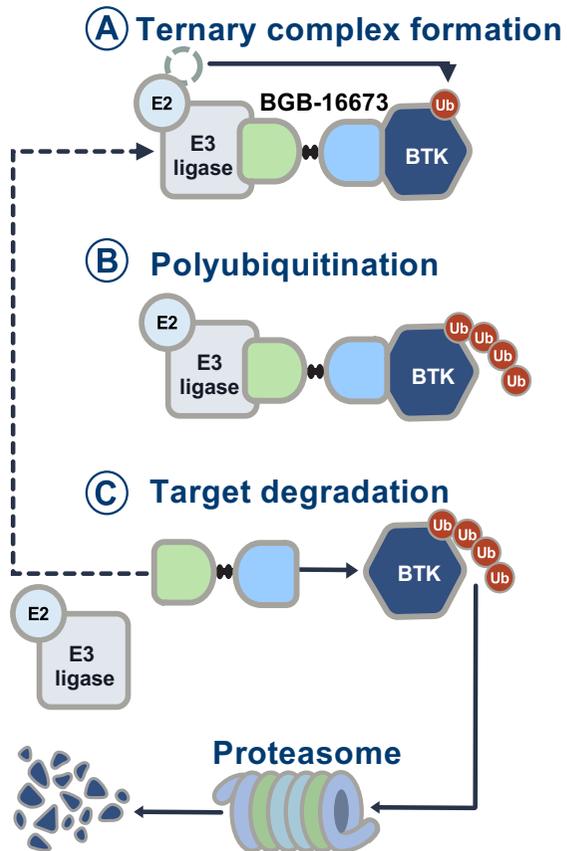
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How to deal with double- exposed/double-refractory disease?

BTK degraders: BGB-16673 and NX-5948



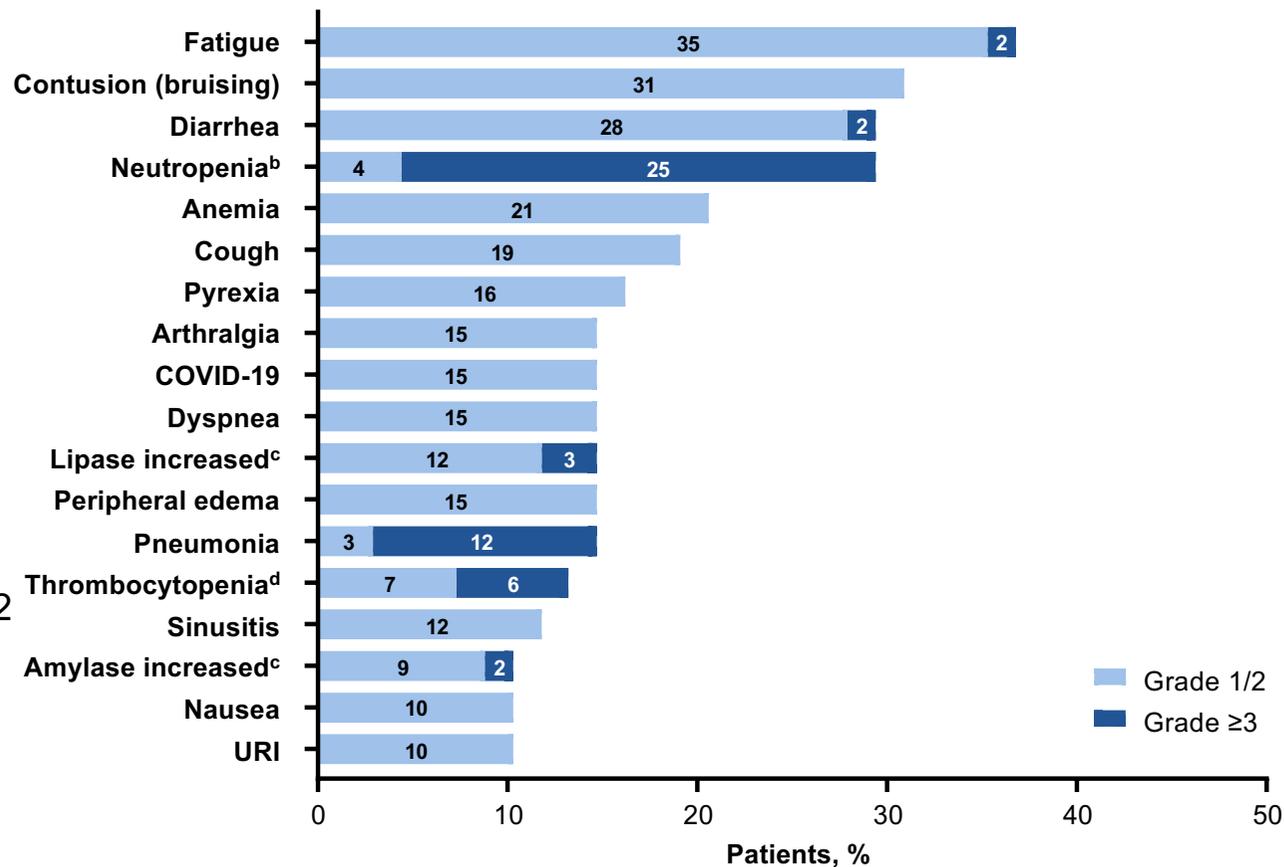
CADAnCE-101 Study: Baseline Pt Features

	Total (N=68)
Age, median (range), years	70 (47-91)
Male, n (%)	47 (69.1)
ECOG PS, n (%)	
0	38 (55.9)
1	29 (42.6)
2	1 (1.5)
CLL/SLL risk characteristics at study entry, n/N with known status (%)	
Binet stage C	29/64 (45.3)
Unmutated IGHV	38/49 (77.6)
del(17p) and/or TP53 mutation	46/68 (67.6)
Complex karyotype (≥3 abnormalities)	22/44 (50.0)

	Total (N=68)
Mutation status, n/N (%)	
<i>BTK</i> mutation present	26/66 (39.4)
<i>PLCG2</i> mutation present	10/66 (15.2)
<i>BTK</i> and <i>PLCG2</i> mutation present	5/66 (7.6)
No. of prior lines of therapy, median (range)	4 (2-10)
Prior therapy, n (%)	
Chemotherapy	49 (72.1)
cBTK inhibitor	64 (94.1)
ncBTK inhibitor	14 (20.6)
BCL2 inhibitor	56 (82.4)
cBTK + BCL2 inhibitors	44 (64.7)
cBTK + ncBTK + BCL2 inhibitors	12 (17.6)
Discontinued prior BTK inhibitor due to PD, n/N (%)^a	57/64 (89.1)

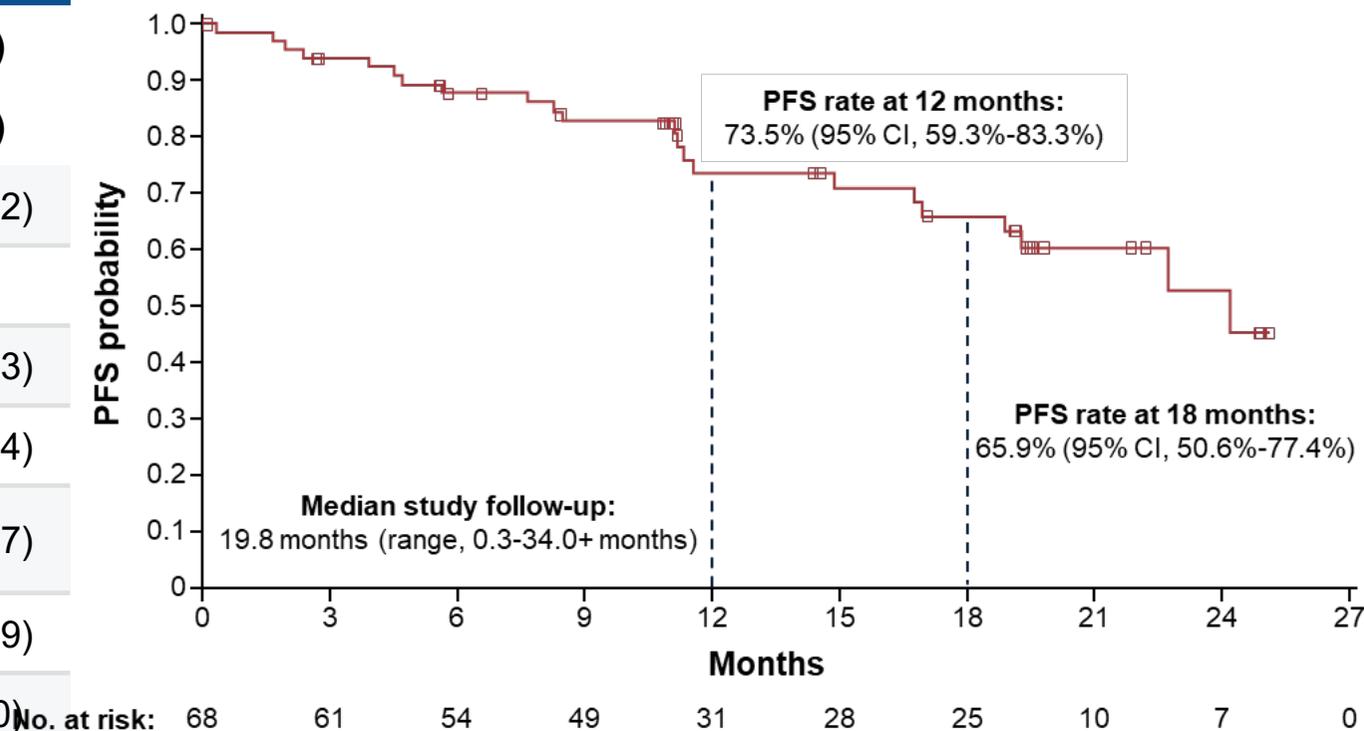
CADAnCE-101 Study: Safety Summary

- The most common TEAEs were fatigue (36.8%) and contusion (bruising; 30.9%)
- Grade ≥ 3 neutropenia: n=17 (25.0%); 16 patients (23.5%) had grade ≥ 2 neutropenia at baseline
 - Neutropenic fever: n=1
- Atrial fibrillation: n=3 (grade 1, n=1; grade 2, n=2; all transient (2 of them lasting 1 day) in the context of infection and PD, assessed as unrelated to treatment)
- Treatment-related major hemorrhage^a: n=2 (one grade 3 subdural hemorrhage and one grade 3 post-procedural hematuria)



CADAnCE-101 Study: Efficacy

Characteristic, n/N with known status (%)	ORR
Total cohort	58/68 (85.3)
Treated at RPE dose (200 mg)	17/18 (94.4)
Prior cBTKi + BCL2i	41/44 (93.2)
Prior cBTKi + BCL2i + ncBTKi	9/12 (75.0)
6 or more prior lines of therapy	13/16 (81.3)
del(17p) and/or TP53 mutation	37/46 (80.4)
Complex karyotype (≥ 3 abnormalities)	16/22 (72.7)
BTK mutations	20/26 (76.9)
PLCG2 mutations	9/10 (90.0)



NX-4948-301 Study: Baseline characteristics

Multiple prior lines of therapy and a high prevalence of baseline mutations

Characteristics	Phase 1a/b – all patients (n=126)	Phase 1a (n=48)
ECOG PS, n (%)		
0	45 (35.7)	19 (39.6)
1	81 (64.3)	29 (60.4)
CNS involvement, n (%)	5 (4.0)	5 (10.4)
Median prior lines of therapy, n (range)	3.0 (1–17)	4.0 (2–12)
Previous treatments,^a n (%)		
BTKi	108 (85.7)	47 (97.9)
cBTKi	106 (84.1)	47 (97.9)
ncBTKi	34 (27.0)	13 (27.1)
BCL2i	78 (61.9)	40 (83.3)
BTKi and BCL2i	75 (59.5)	39 (81.3)
CAR-T therapy	9 (7.1)	3 (6.3)
Bispecific antibody	5 (4.0)	1 (2.1)
PI3Ki	26 (20.6)	14 (29.2)
Chemo/chemo-immunotherapies	84 (66.7)	35 (72.9)
Mutation status,^b n (%)	(n=111)	(n=47)
<i>BTK</i>	44 (39.6)	18 (38.3)
<i>TP53</i>	44 (39.6)	21 (44.7)
<i>PLCG2</i>	9 (8.1)	7 (14.9)
<i>BCL2</i>	8 (7.2)	6 (12.8)

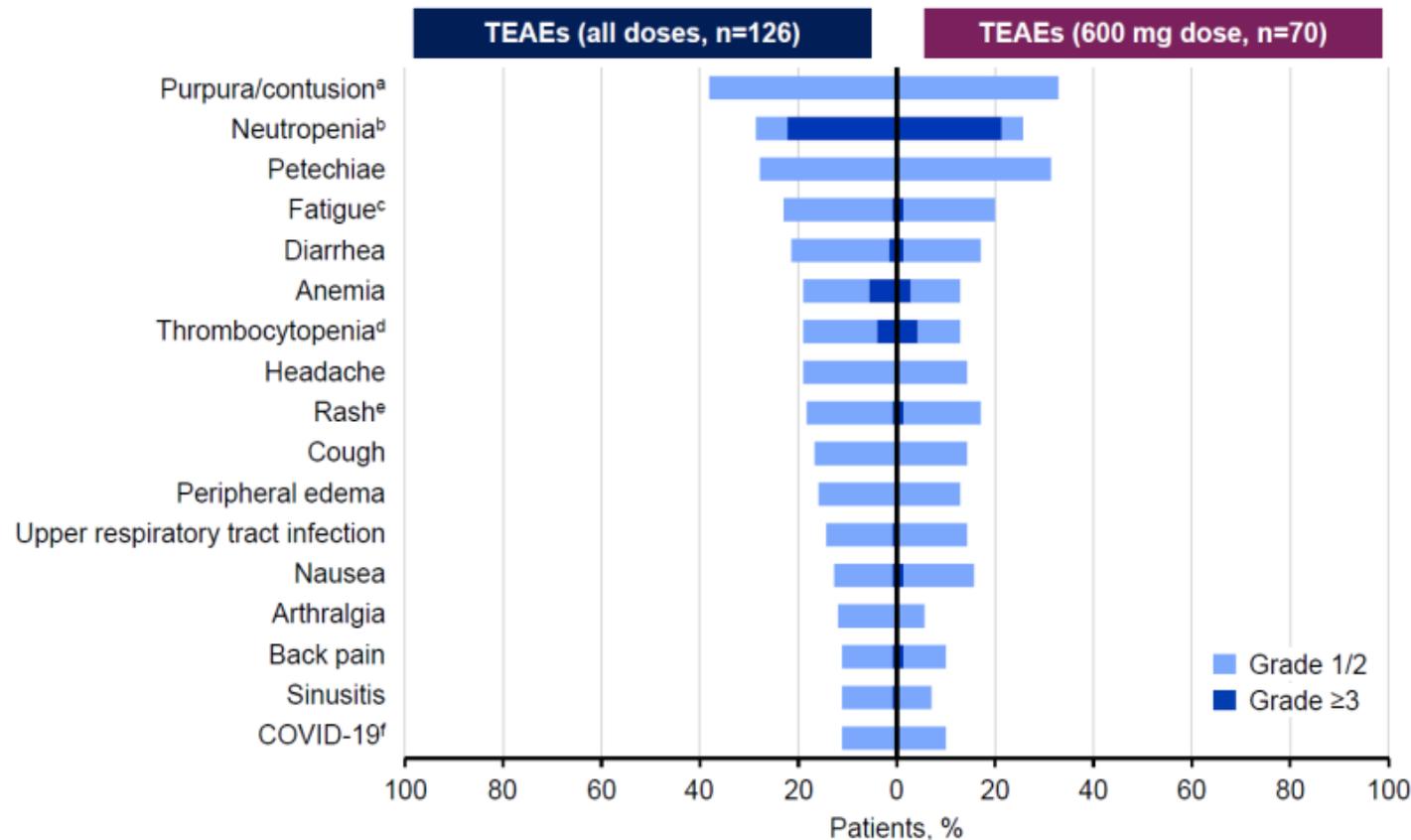
^aPatients could have received multiple prior treatments; ^bMutations presented here were centrally sequenced

BCL2, B-cell lymphoma 2; **BCL2i**, BCL2 inhibitor; **BTK**, Bruton's tyrosine kinase; **BTKi**, BTK inhibitor; **cBTKi**, covalent BTKi; **CAR-T**, chimeric antigen receptor T cell; **CNS**, central nervous system; **ECOG PS**, Eastern Cooperative Oncology Group performance status; **ncBTKi**, non-covalent BTKi; **PI3Ki**, phosphoinositide 3-kinase inhibitor; **PLCG2**, phospholipase C gamma 2

Data cutoff: 19 Sep 2025

NX-4948-301 Study: Safety Profile

Comparable AE profile for patients at the RP2D 600mg dose and overall population

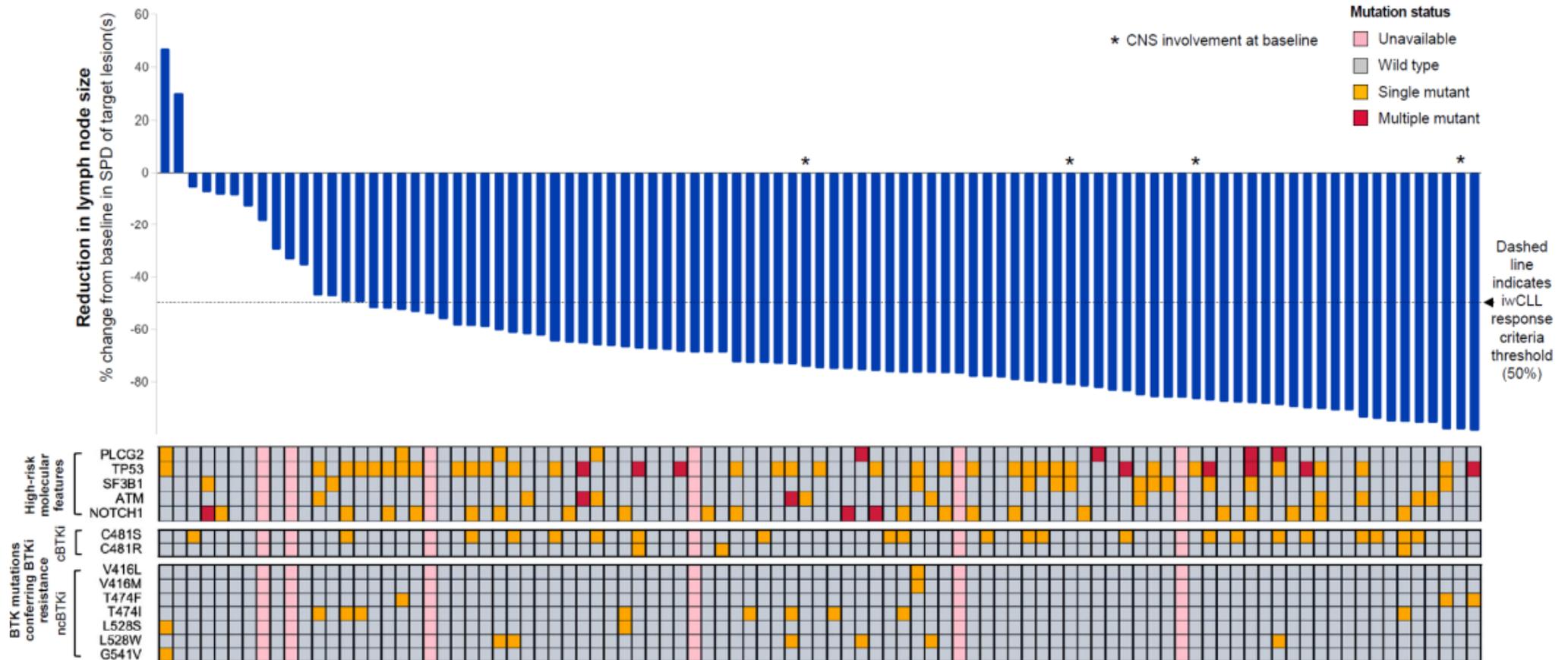


- Tolerable safety profile consistent with prior disclosures
- No dose-limiting toxicities
- No systemic fungal infections or Grade 4 infections of any kind reported
- Single event of new onset atrial fibrillation consistent with the rate in the age-matched general population
- 3 Grade 5 AEs (death not otherwise specified; pulmonary embolism; pneumonia; all deemed not related to bexobrutideg)

^aPurpura/contusion includes episodes of contusion or purpura; ^bAggregate of 'neutrophil count decreased' or 'neutropenia'; ^cFatigue was transient; ^dAggregate of 'thrombocytopenia' and 'platelet count decreased'; ^eAggregate of 'rash' and 'rash maculopapular' and 'rash pustular'; ^fAggregate of 'COVID-19' and 'COVID-19 pneumonia'
 AE, adverse event; NOS, not otherwise specified; RP2D, recommended Phase 2 dose; TEAE, treatment-emergent adverse event

Data cutoff: 19 Sep 2025

NX-4948-301 Study: Efficacy Data

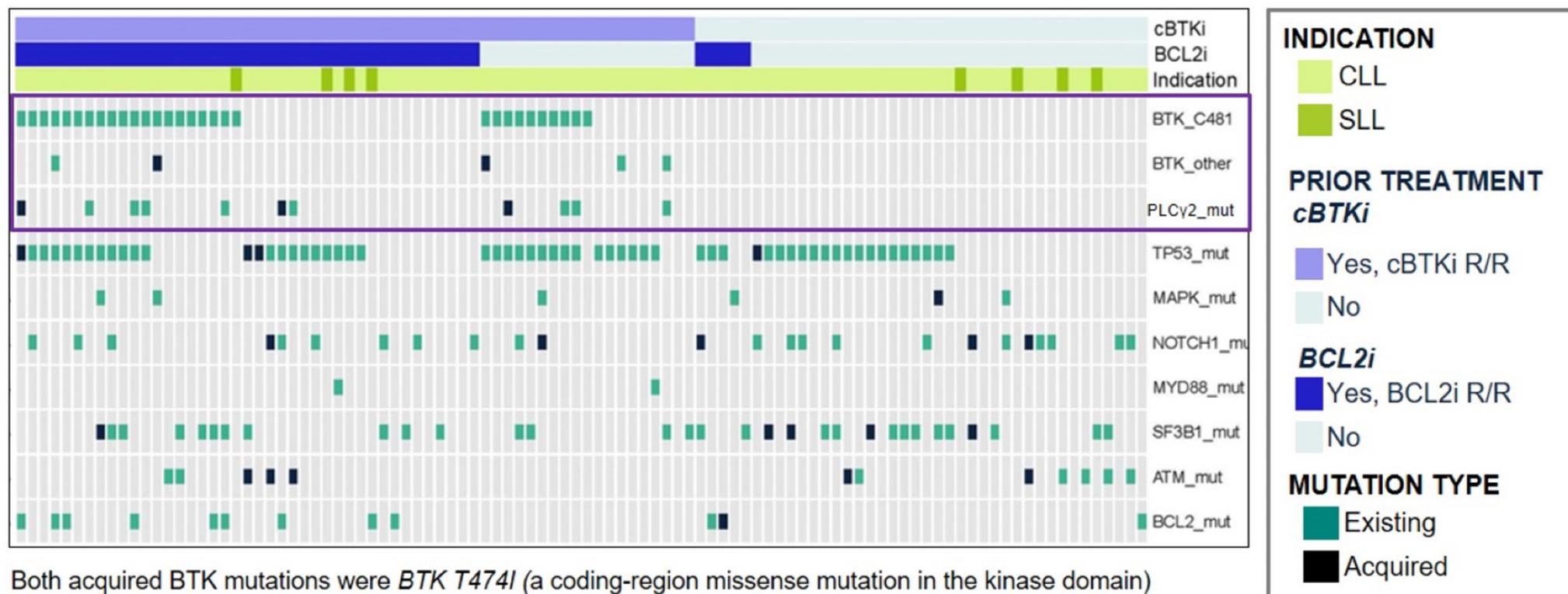


*Waterfall plot includes patients with measurable lymph node status (n=93); mutations were reported at VAF >5%; †Patients could have no mutations, a single mutation, or multiple mutations
ATM, ataxia-telangiectasia mutated; **BTK**, Bruton's tyrosine kinase; **BTKI**, BTK inhibitor; **cBTKI**, covalent BTKI; **CLL**, chronic lymphocytic leukemia; **CNS**, central nervous system; **iwCLL**, International Workshop on CLL; **ncBTKI**, non-covalent BTKI; **NOTCH1**, neurologic locus notch homolog protein 1; **PLCG2**, phospholipase C gamma 2; **SPD**, sum of products diameters

Data cutoff: 19 Sep 2025

Acquired mutations in MK-1026-003 Trial

- Acquired *BTK* and *PLCy2* mutations were rare with low VAF (< 4%)

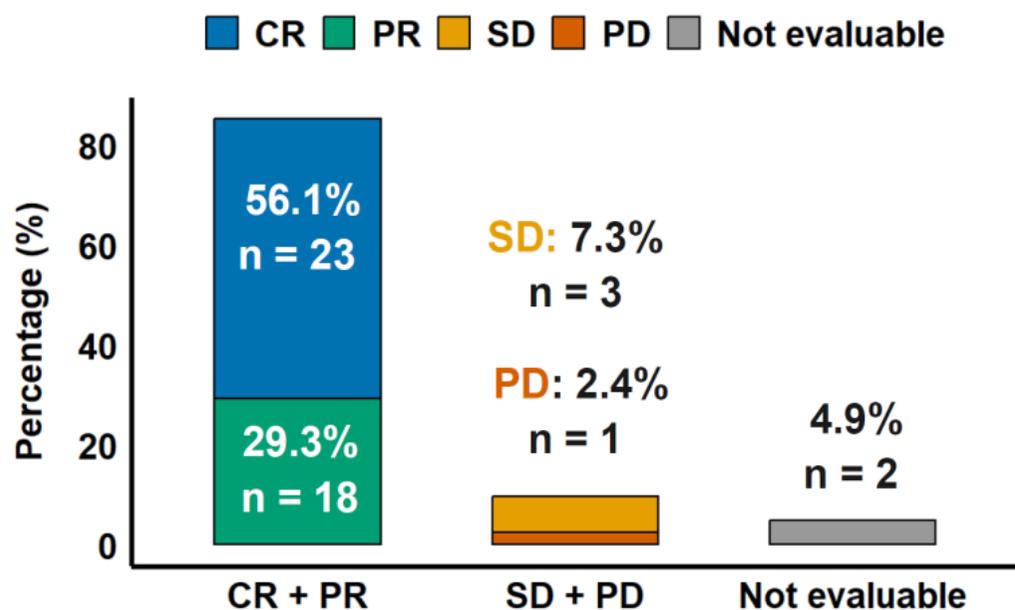


- Both acquired *BTK* mutations were *BTK T474I* (a coding-region missense mutation in the kinase domain)
- Each were present at low variant allele frequencies (1.16%, C13 and 1.21%, EOT)

Data cut-off: September 8, 2025. N = 100. VAF, variant allele frequency. Biomarker evaluable population (N = 100). Median treatment duration: 14.65 months (range, 0.16 - 50.83). Median follow up duration: 25.15 months (range, 2.69 - 50.99).

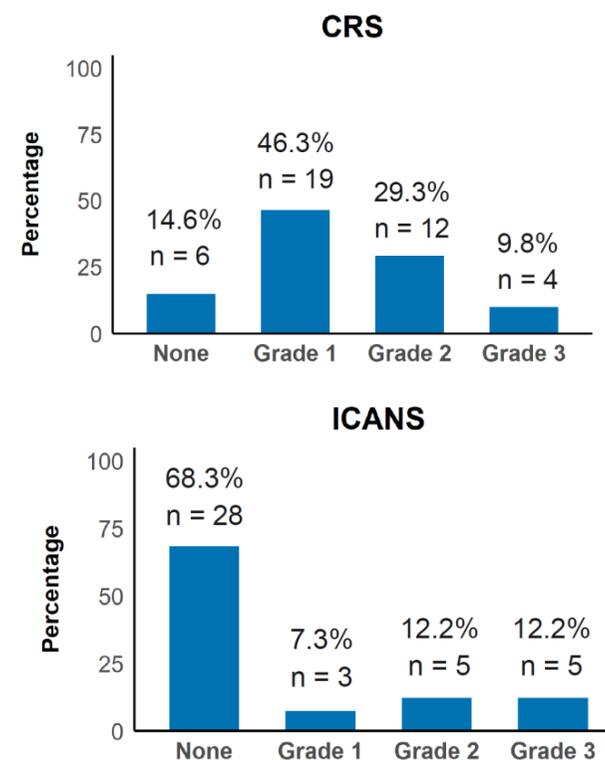
Real-world outcomes of liso-cel in CLL

41 pts from 17 US sites, 63% *TP53* aberrations, 39% complex karyotype
 100% BTKi-exposed, 95% BCL2i-exposed, 90% pirtobrutinib (58.5% last line)
 Median FU 3.3 months



Less CR if LN ≥ 5 cm: -1.33 (-3.44 to 0.49)
 More CR if continued bridging therapy: 1.69 (0.13-3.69)

Huang JJ et al, Oral Presentation ASH 2025



2 G2, 1 G5 immune effector cell-associated HLH-like syndrome (IEC-HS)



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Thank you!

Università Vita-Salute San Raffaele
IRCCS Ospedale San Raffaele
Department of Onco-Hematology
Division of Experimental Oncology

Prof Paolo Ghia

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Malignant B cells biology and 3D modelling Unit

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