

Il suono
DELL' INNOVAZIONE

now live 

Milano, Milan Hilton Hotel

4-5 maggio 2026

FOCUS SUL LINFOMA MANTELLARE

Come il BTKi di seconda generazione cambia l'approccio di prima linea

Enrico Derenzini

Divisione di Oncoematologia, Istituto Europeo di Oncologia
Dipartimento di Scienze della Salute, Università di Milano

Disclosures of Enrico Derenzini

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
Takeda	X					X	
Roche					X	X	
Incyte	X				X	X	
ADC-Therapeutics	X						
Beigene						X	X
AbbVie					X	X	
Astra Zeneca			X			X	
Lilly						X	
Sobi					X	X	
Gilead						X	
Regeneron			X				
J&J						X	
BMS						X	

Drivers of therapeutic decision-making in MCL

PATIENT'S
AGE/FITNESS

Age vs Transplant eligibility vs Cytarabine-based induction eligibility

1° vs 2° gen cBTKi

BIOLOGIC-RISK MCL

Tailored therapeutic strategies according to biologic risk in MCL?

OPTIMAL
SEQUENCING

Is there an optimal sequencing strategy?

MCL: past, current & future treatment scenario

FIRST LINE

PAST

PRESENT

FUTURE

≤65 Y
Or T-EL

>65 Y
Or T-INEL

≤65 Y
Or T-EL

>65 Y
Or T-INEL

CHEMOFREE
RISK-ADAPTED

R-CHT/ASCT
+ R maint

R-Benda-BASED
+ R maint

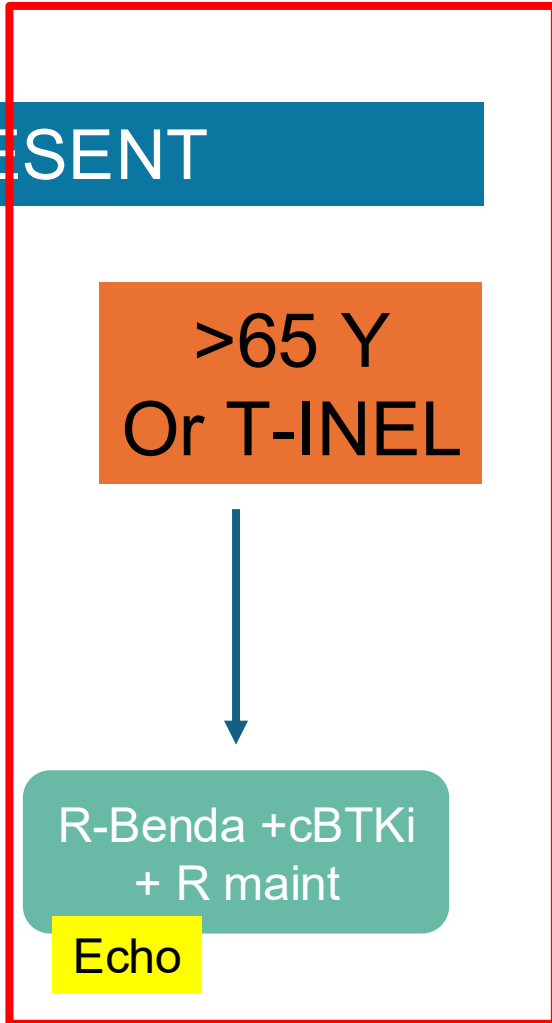
R-BAC

R-CHT +cBTKi
+ R maint

R-Benda +cBTKi
+ R maint

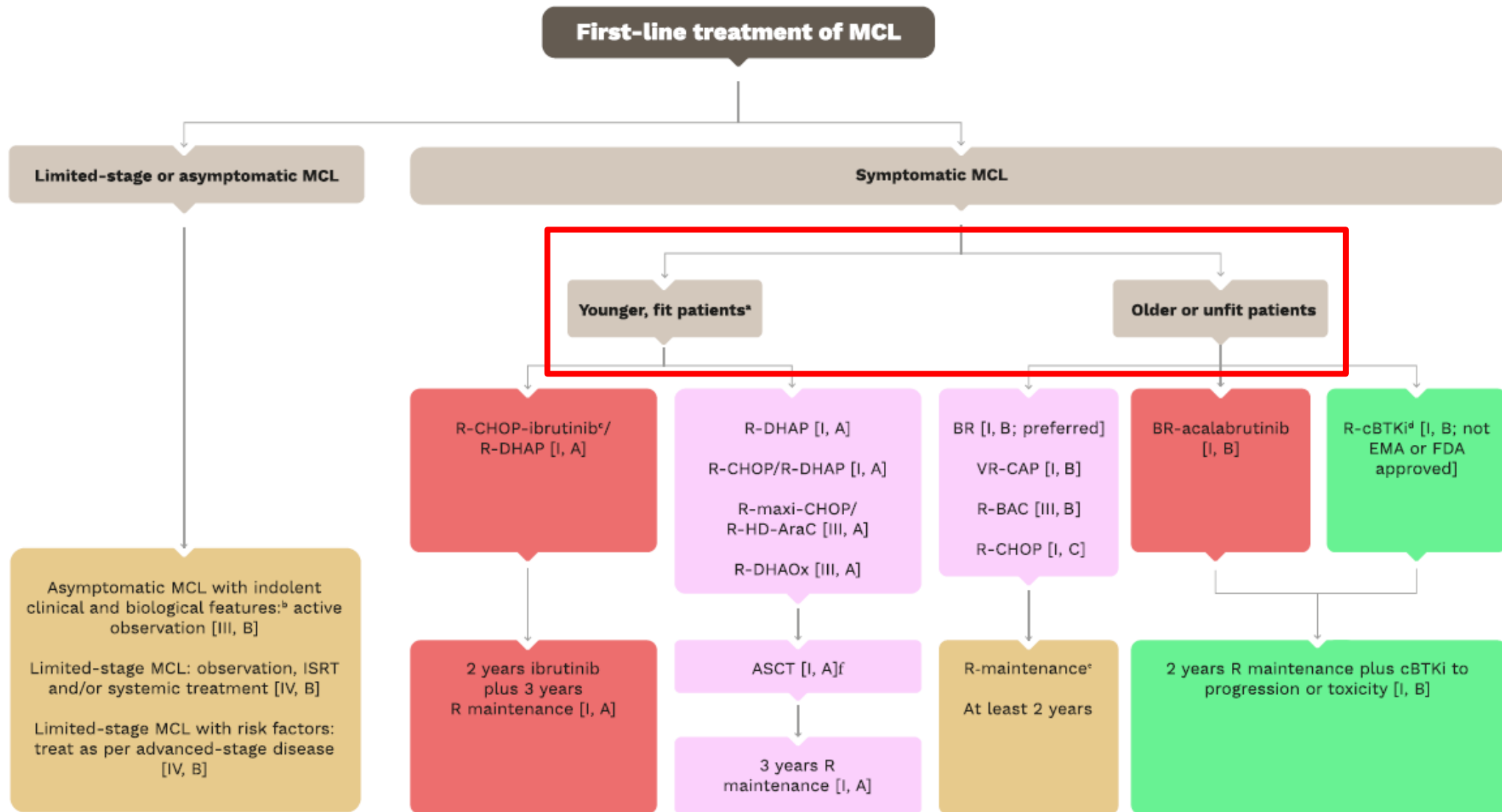
Triangle

Echo



Patient's Age/Fitness And Eligibility To Treatment

EHA-EU MCL GUIDELINES



High-Risk MCL

MIPI

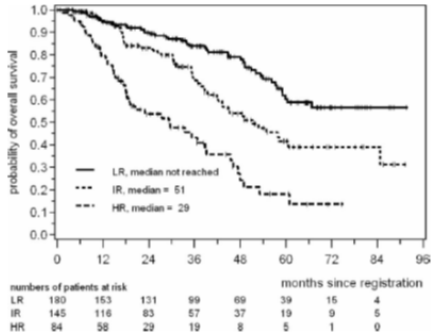
Ki-67

P53 expr.

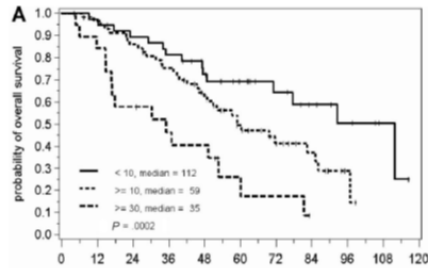
TP53 status

Histology

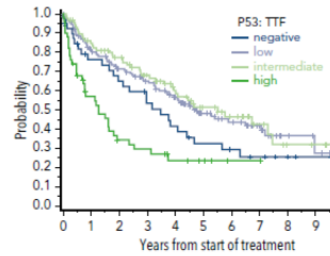
455 pts included in 3 clinical trials



Tiemann et al BJH 2005

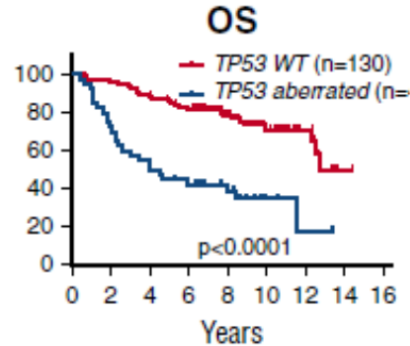


Determann E et al, Blood 2008

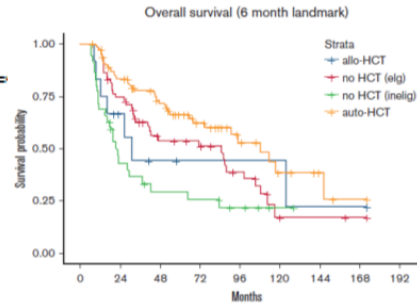


Aukema et al, Blood 2018

A



Eskelund et al, Blood 2017



Gerson et al, Blood Adv 2023

MIPI score $[0.03535 \times \text{age (years)}]$
 age (years)
 0.6978 (if ECOG 1)
 $[1.367 \log_{10}(\text{LDH}/\text{ULN})]$
 $[0.9393 \log_{10}(\text{WBC count})]$

Ki67>30%/50%

p53>50%

TP53 mut/del

Blastoid morphology

+ Ki 67 (MIPIb)

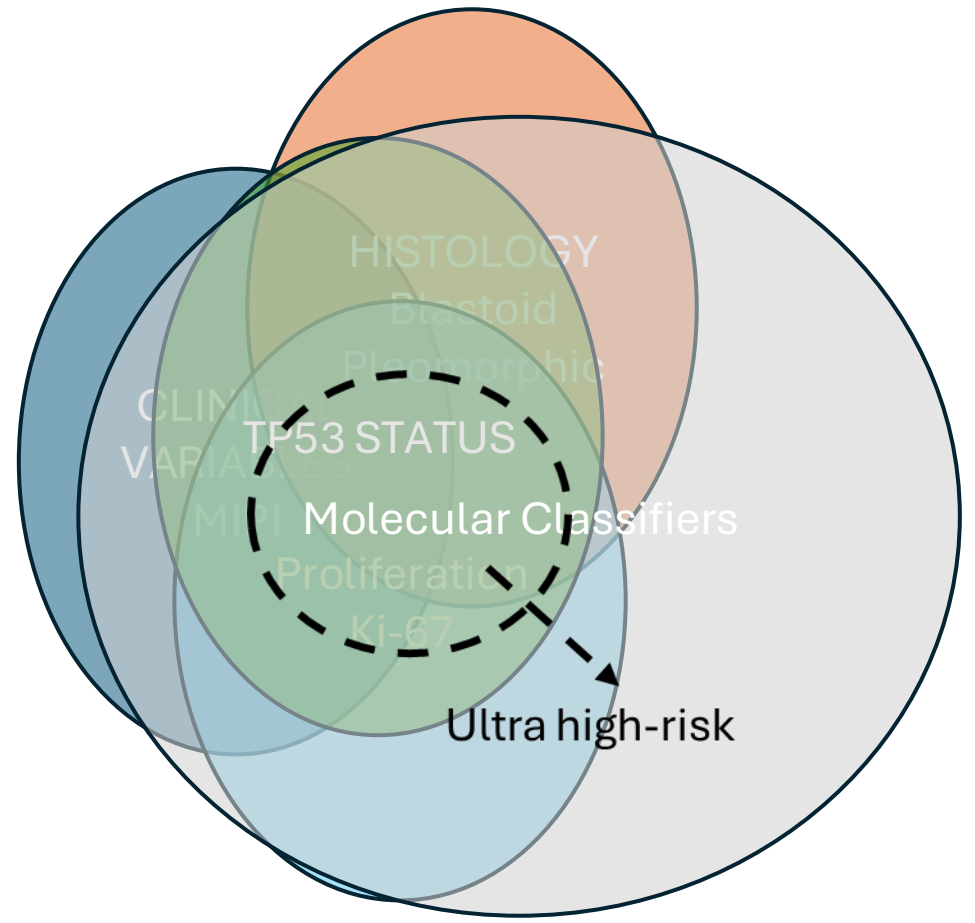
Poor Outcome

HIGH RISK AND ULTRA-HIGH RISK MANTLE CELL LYMPHOMA

Features	Newly diagnosed MCL
Accepted ultra-high-risk features	De novo blastoid or pleomorphic histology with high-risk mutations ⁴⁰ Ki-67% $\geq 50\%$ † in involved tissue biopsy with blastoid or pleomorphic histology ^{12,41} ‡TP53 mutation (R273) with other high-risk gene mutations (KMT2D, NSD2, CCND1, NOTCH1, CDKN2A, NOTCH2, or SMARCA4 mutations) and extensive disease burden ⁴² CNS involvement with systemic disease ⁴³
Accepted high-risk features	Blastoid or pleomorphic histology ⁴⁰ Ki-67 $\geq 50\%$ † in involved tissues with classic histology ^{12,41} TP53 mutation ¹⁴ and/or del(17p) by FISH, TP53 overexpression by IHC, and/or non-TP53 mutations (NOTCH1/NOTCH2, KMT2D, NSD2, and SMARCA4 mutations) ⁴⁴ CK ⁴⁵ MYC rearrangement and/or amplification ⁴⁶⁻⁵⁰ TP53 expression in >50% of cells or a high combined MIPI score Simplified MIPI score ≥ 6.2 ⁵¹ Bulky disease

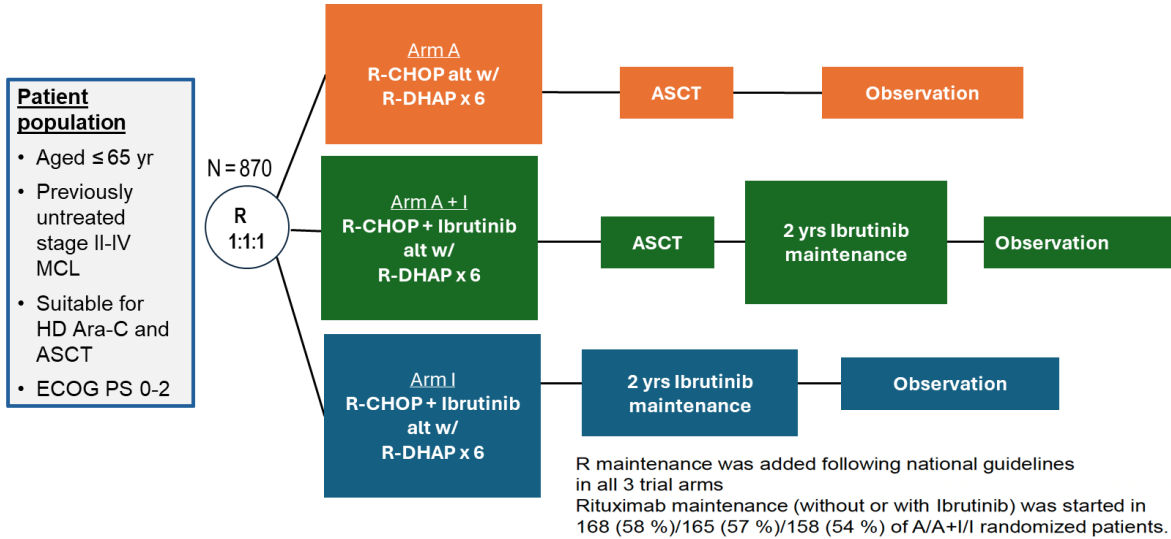


Concept of ultra-high risk MCL:
 Clusters of High-risk factors



cBTKi based 1L regimens

TRIANGLE



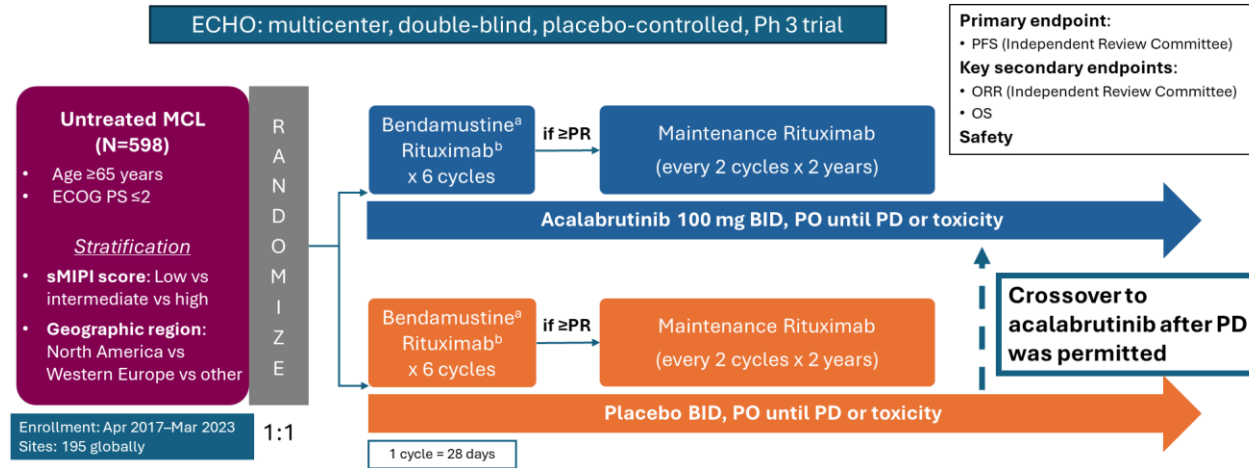
Primary Endpoint
• FFS
Key Secondary Endpoints
• Response rates
• PFS
• RD
• OS
• Safety

MIPI int-high 41-43%

Ki67 ≥30% 31-33%

Blastoid 11-13%

ECHO



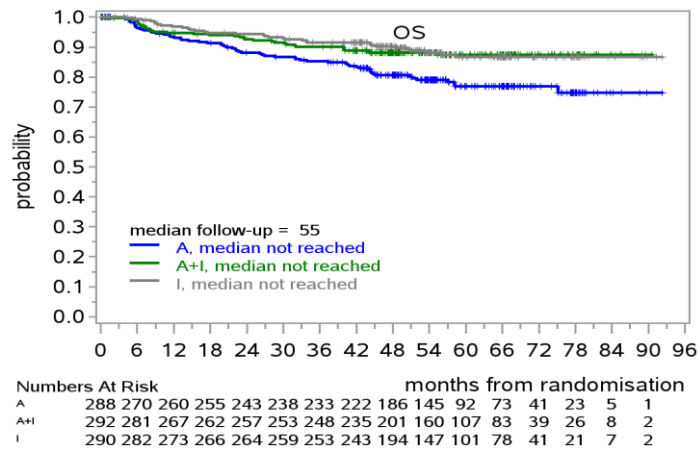
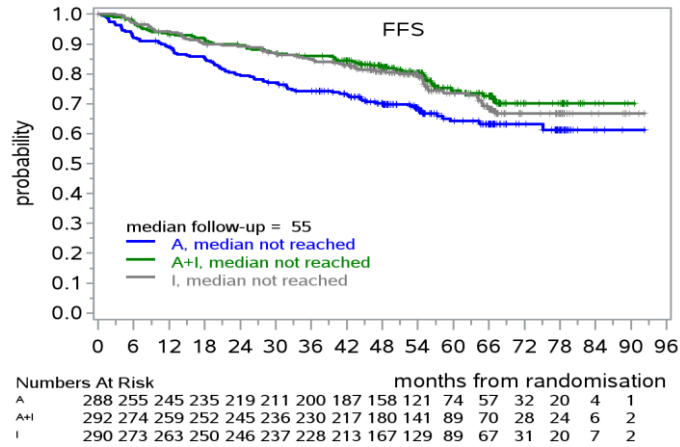
Primary Endpoint
• PFS by independent review committee (IRC)
Key Secondary Endpoints
• PFS by investigator (INV)
• ORR by INV and IRC
• DoR by IRC
• OS

sMIPI int-high 66-67%

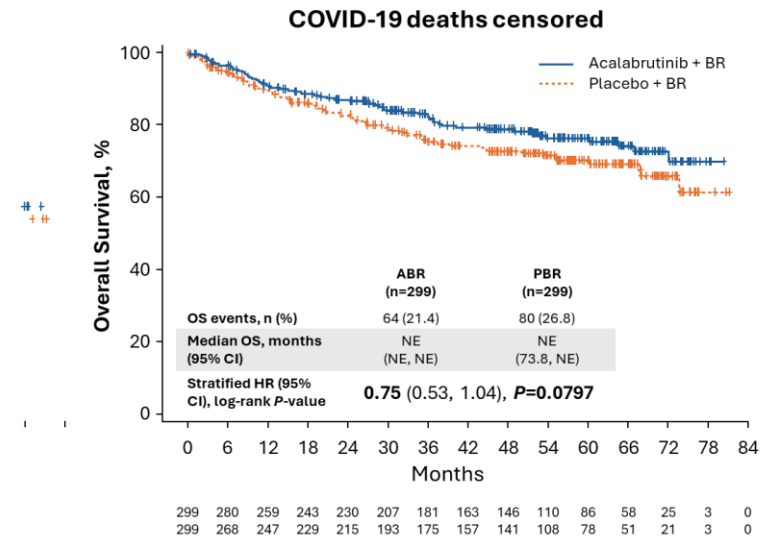
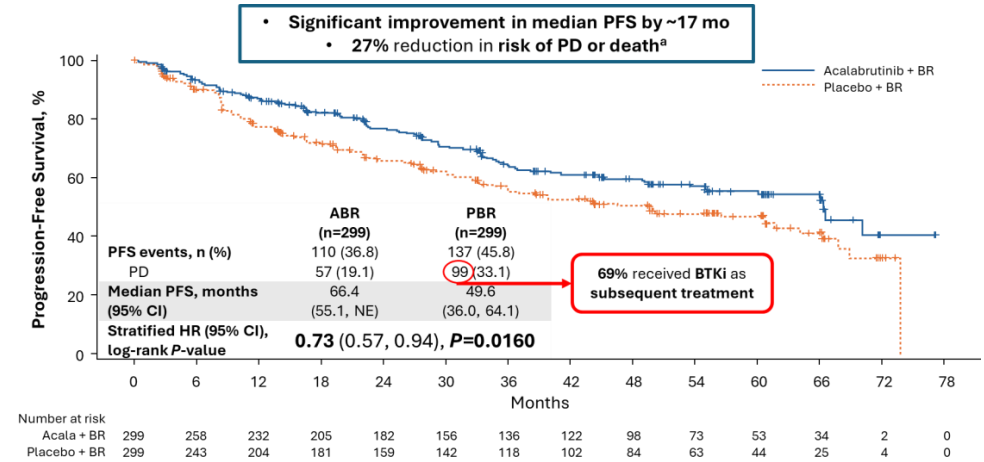
Ki67 ≥30% 46-49%

Blastoid/pleomorphic 13-14%

TRIANGLE



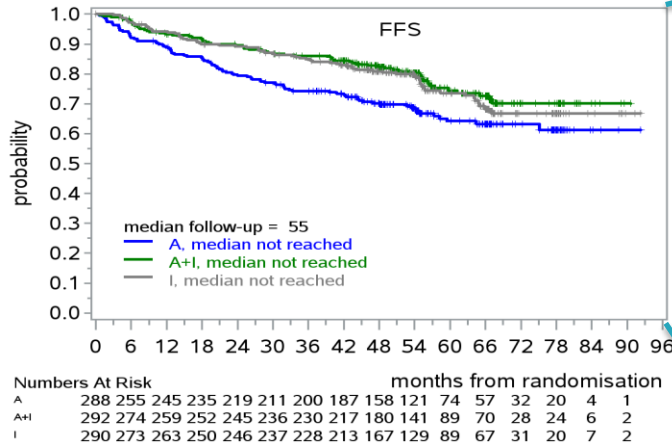
ECHO



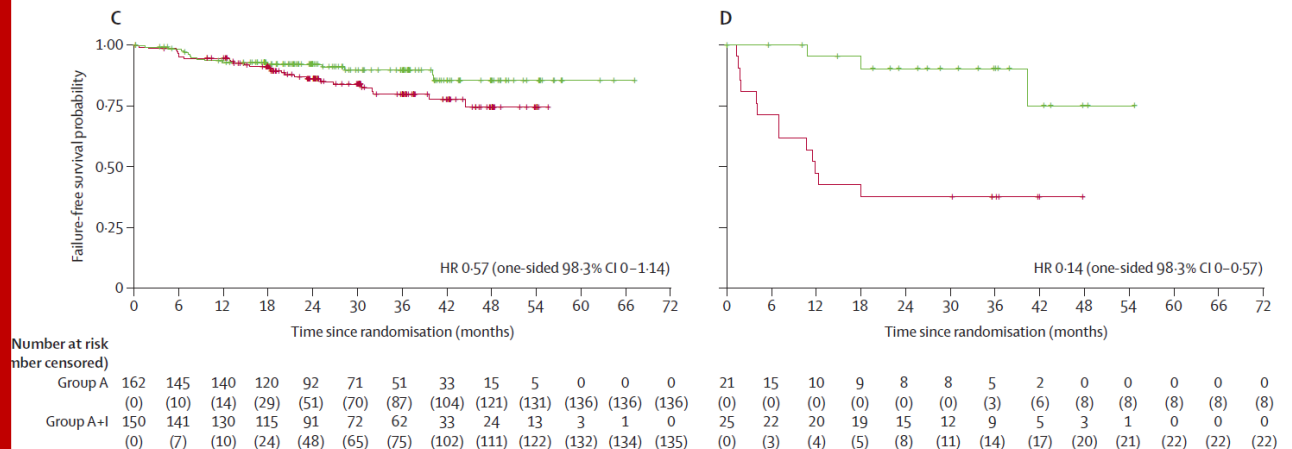
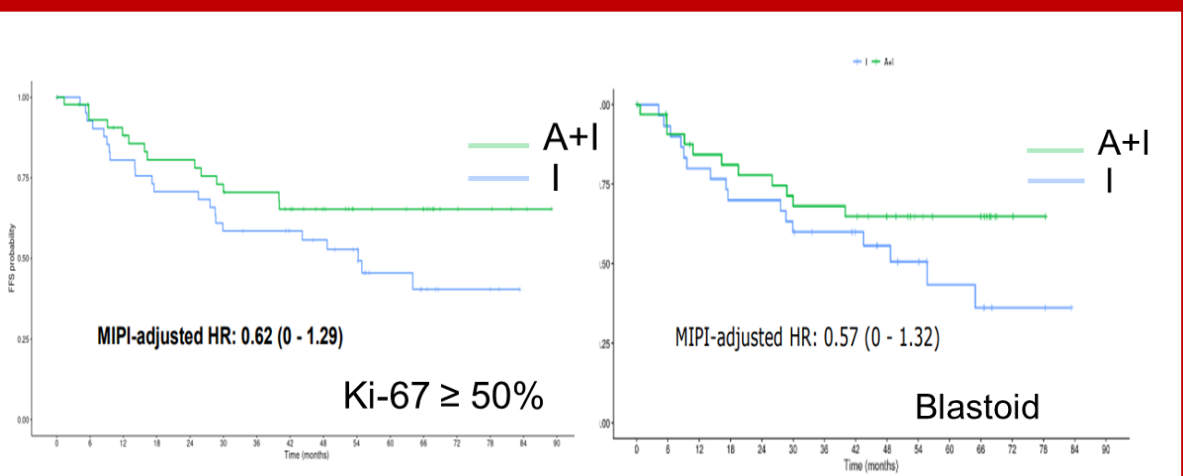
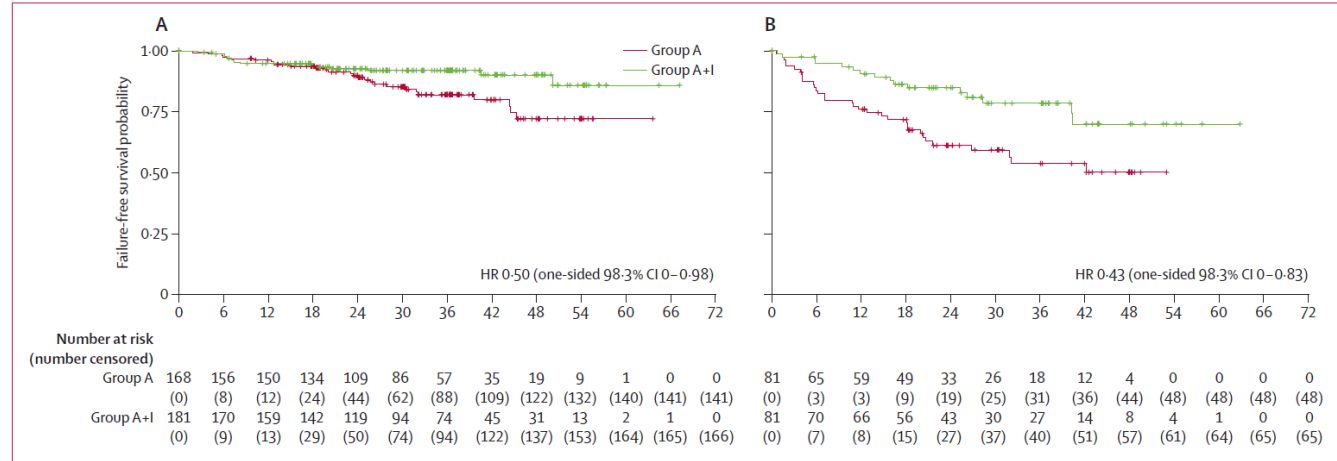
cBTKi based 1L regimens in young, fit, high-risk MCL

TRIANGLE

TRIANGLE: Greater benefit of A+ I over A in high-risk patient as defined by high p53 expressors and high-risk biology (p53 > 50% or Ki67 ≥30%)



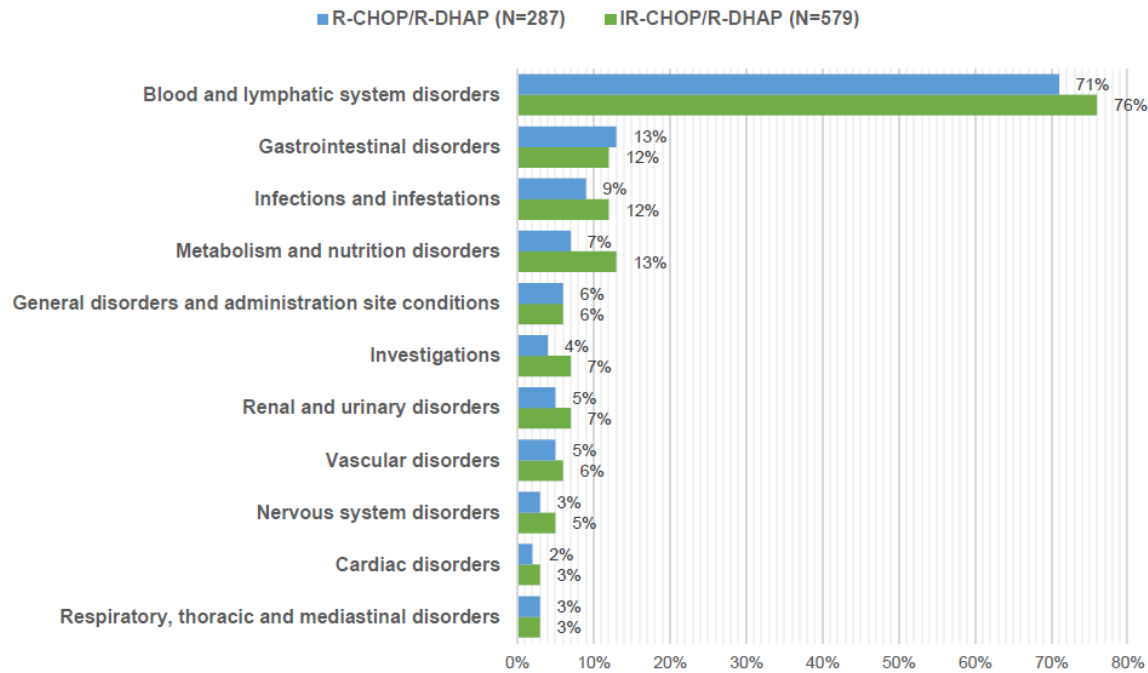
- 4-year FFS A: 70%
- 4-year FFS A+I: 82%
- 4-year FFS I: 81%



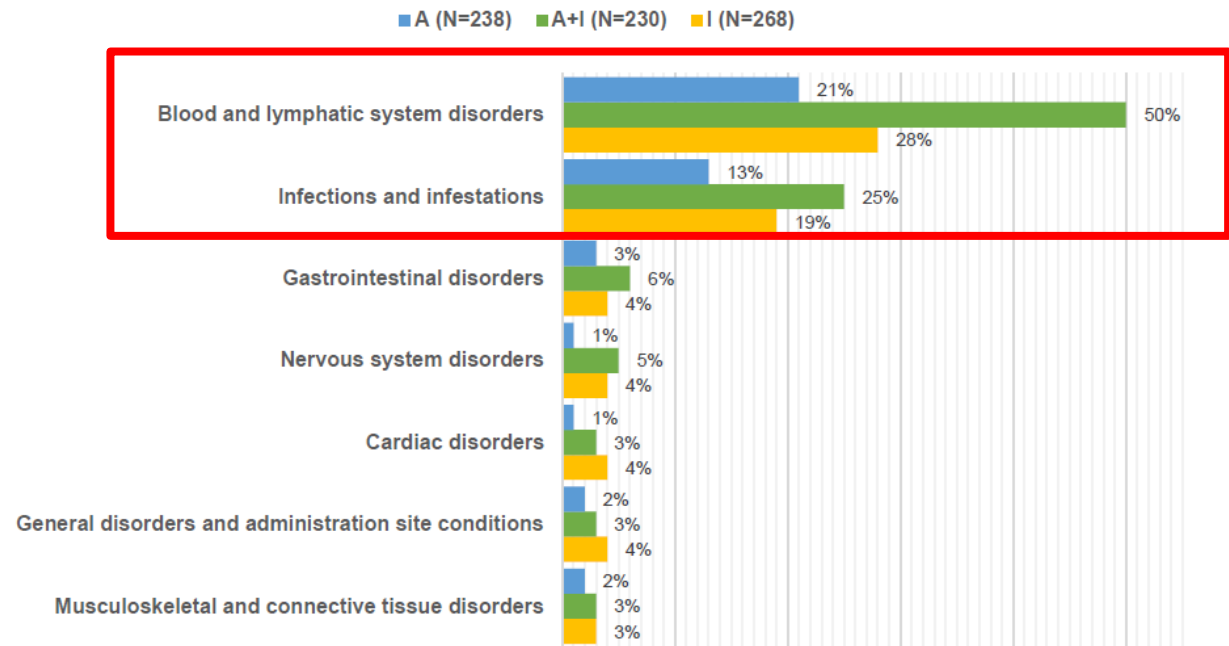
4: Failure-free survival for group A+I vs group A in selected subgroups of patients with low (<30%) Ki-67 (A), high (≥30%) Ki-67 (B), low (≤50%) p53 (C), and high (>50%) p53 (D)

cBTKi based 1L regimens in young, fit MCL

TRIANGLE



Induction



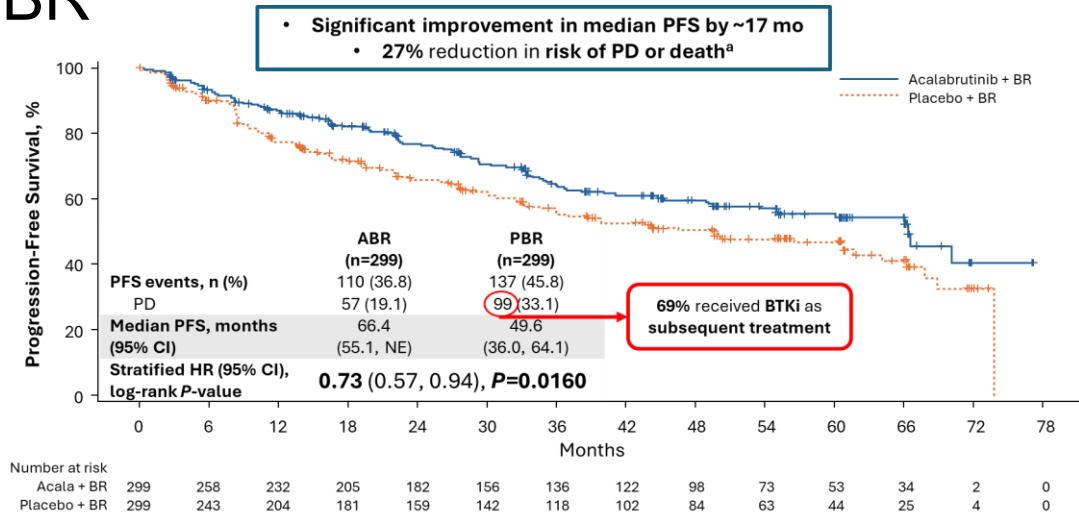
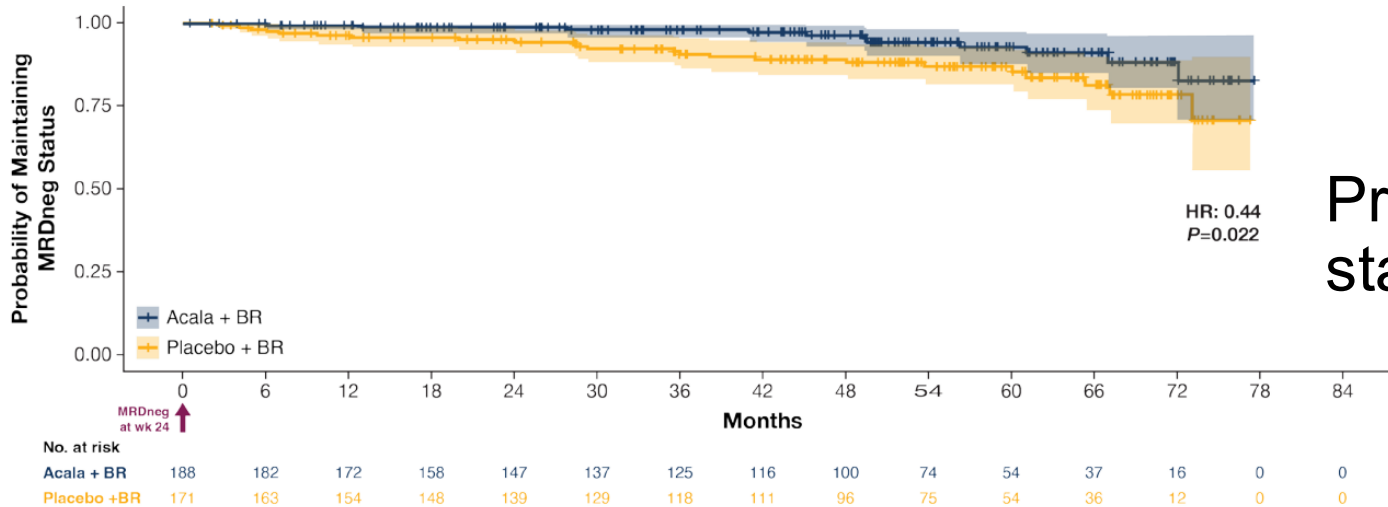
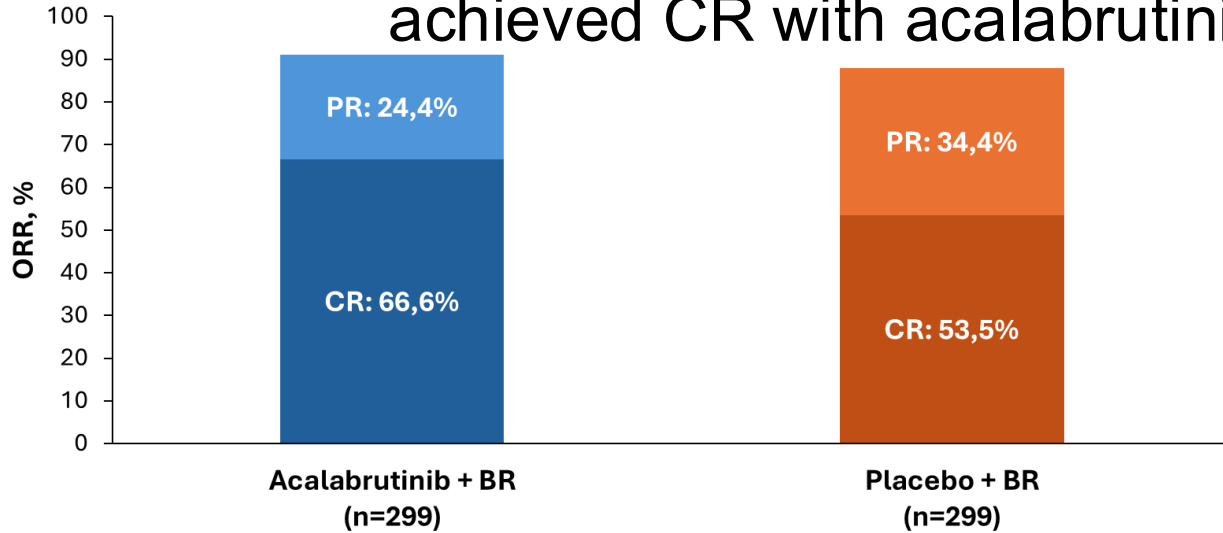
Maintenance phase

cBTKi based 1L regimens in elderly, unfit MCL

ECHO Study

EFFICACY

An additional 13% of patients achieved CR with acalabrutinib + BR



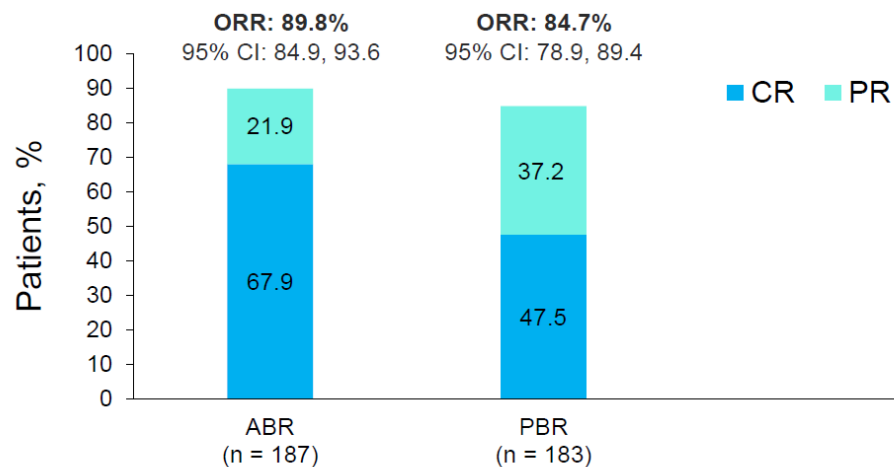
Probability of maintaining MRD-negative status after induction by treatment arm

- The probability of maintaining MRD negativity after induction was 2.3-fold greater for the acala arm than the placebo arm

ECHO Study: High-risk Subset

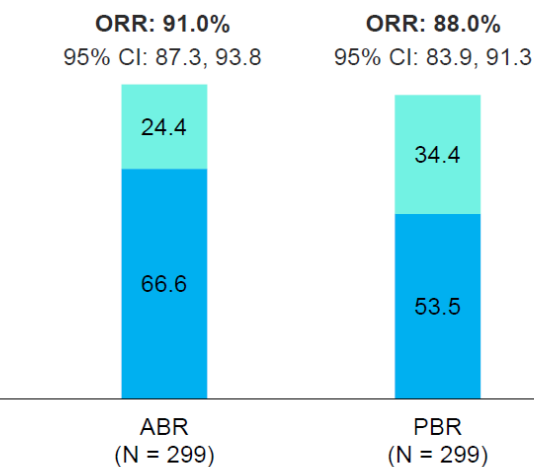
HIGH-RISK

High-risk Population



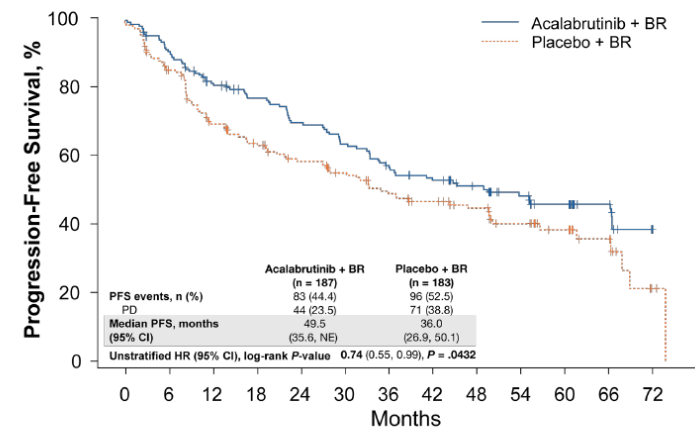
	ORR	CR
Difference (ABR vs PBR)	5.1%	20.4%
95% CI	-1.7, 12.1	10.4, 30.0
P-value	.1382	<.0001

Overall Population¹



	ORR
Difference (ABR vs PBR)	3.0%
95% CI	-2.0, 8.1
P-value	.2196

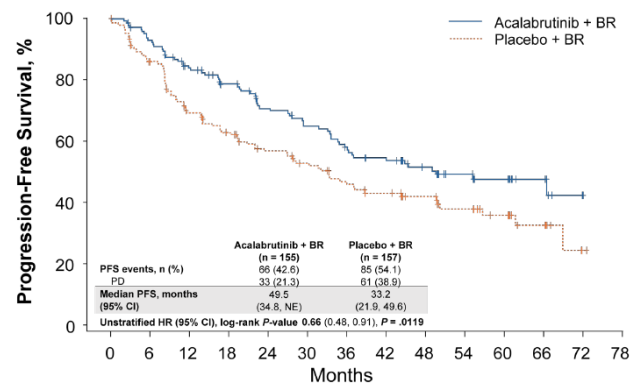
PFS in High-risk Population



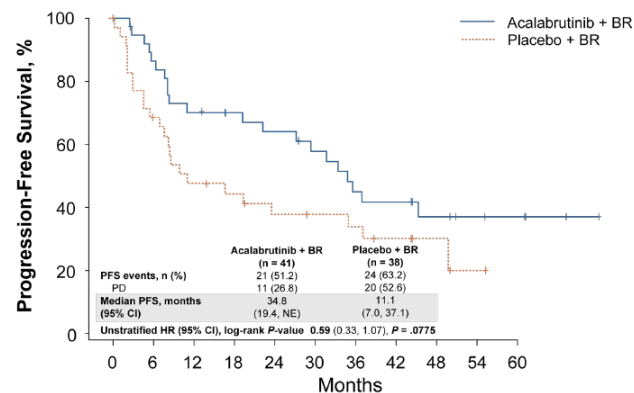
Number at risk	0	6	12	18	24	30	36	42	48	54	60	66	72
Acalabrutinib + BR	187	159	138	123	105	91	81	72	58	44	34	22	0
Placebo + BR	183	143	113	100	87	78	64	55	44	31	21	12	0

- After PD, 38 (53.5%) of 71 patients with high-risk disease who progressed on placebo crossed over to acalabrutinib

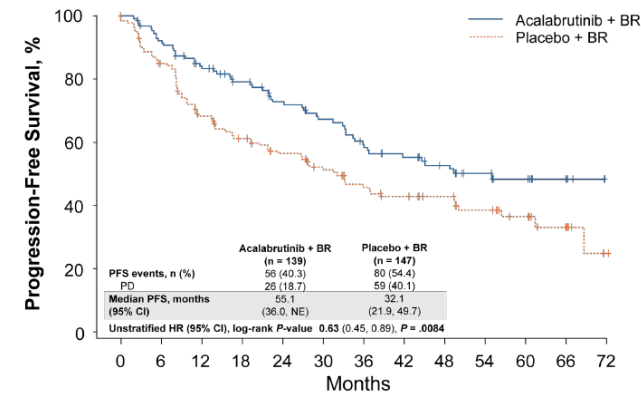
PFS in Patients With Ki-67 ≥30%, Blastoid/Pleomorphic Histology, and/or TP53 Mutation



PFS in Patients With Blastoid/Pleomorphic Histology



PFS in Patients With Ki-67 Index ≥30%



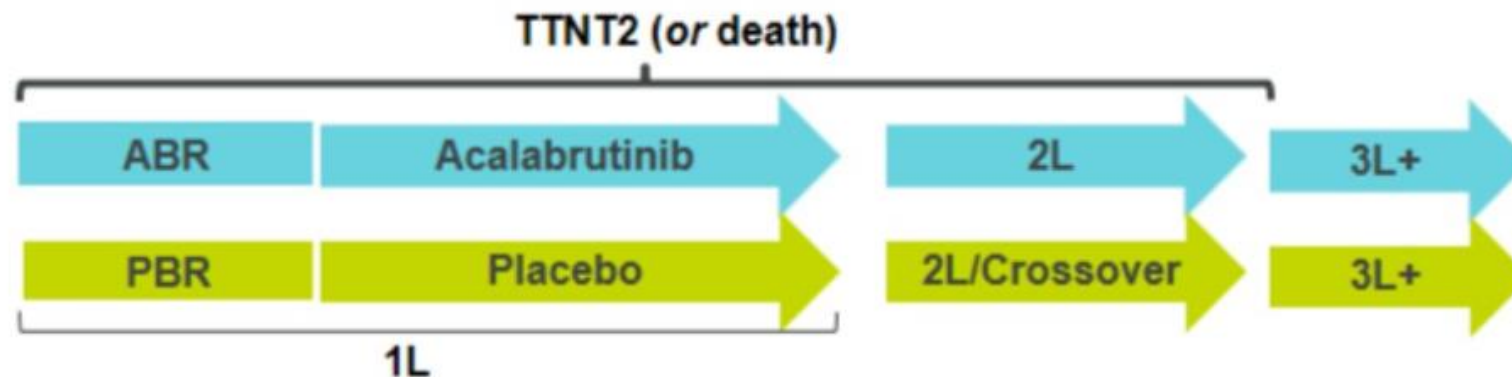
Adverse Events of Interest

	Acalabrutinib + BR (n=297)		Placebo + BR (n=297)	
	Any grade	Grade ≥3	Any grade	Grade ≥3
Event, n (%)	COVID-19–related AEs			
	n (%)		Acalabrutinib + BR (n=297)	Placebo + BR (n=297)
Atrial fibrillation				
Hypertension				
Major bleeding ^a	Any AE		121 (40.7)	88 (29.6)
	Grade ≥3		60 (20.2)	50 (16.8)
Infections ^b	Grade 5		28 (9.4)	20 (6.7)
Second primary malignancies (excluding non-melanoma skin) ^b	SAEs		60 (20.2)	52 (17.5)
	Grade ≥3		58 (19.5)	48 (16.2)
Median treatment exposure (range), months	AE leading to acalabrutinib/ placebo discontinuation		31 (10.4)	19 (6.4)

^aGrouping of preferred terms; defined as a hemorrhagic event that is serious, or grade ≥3 in severity, or that is a CNS hemorrhage (any severity grade). ^bGrouping of preferred terms. BR, bendamustine + rituximab; CNS, central nervous system.

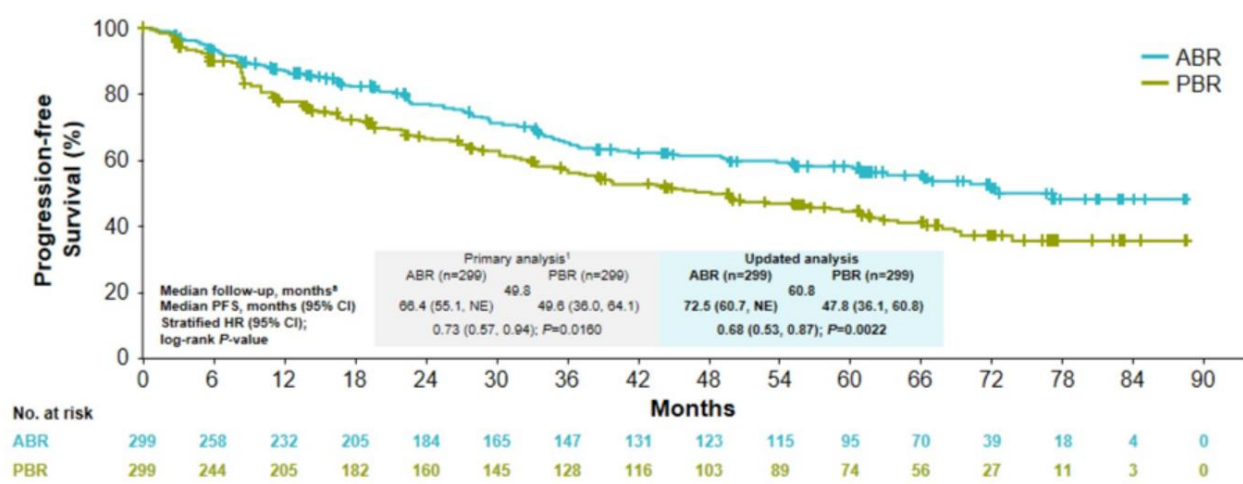
Methods:

- Median follow-up was 60.8 months (range 0-88.5) per reverse K-M for PFS
- Median time on study was 51.9 months (range 0.03-93.04) for all other outcomes
- TTN2 was assessed in a post hoc analysis
- TTN2 was defined as the time from randomization to either the start of 3L antilymphoma treatment after discontinuation of randomized treatment or death



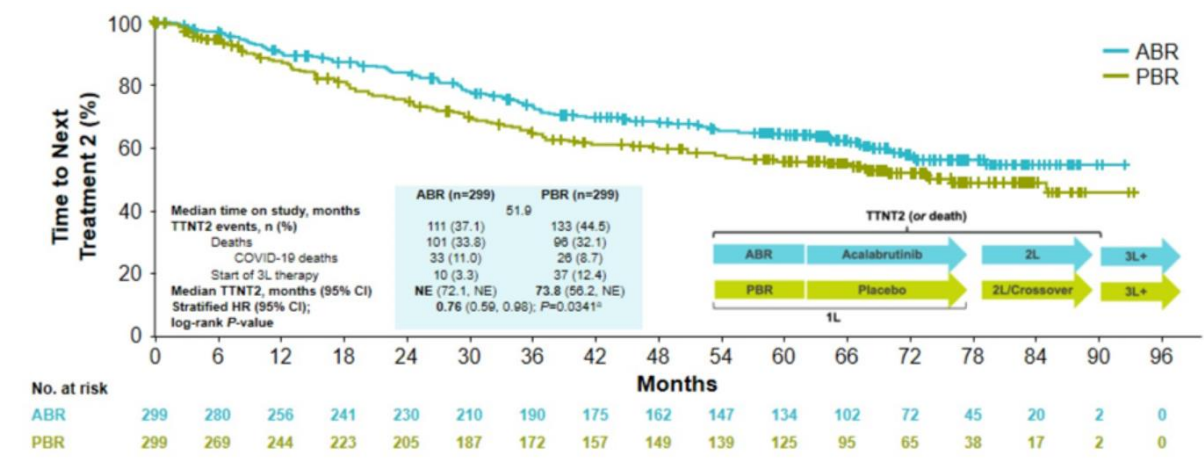
ECHO Study: Long Term FUP

LONG-TERM FUP & TTN2



At 60.8 months of Follow-up PFS further improved with ABR vs PBR

- PFS risk reduction with ABR vs PBR increased from 27% (primary analysis) to 32% (updated analysis)
- Median PFS was longer with ABR vs PBR (6 years vs 4 years)

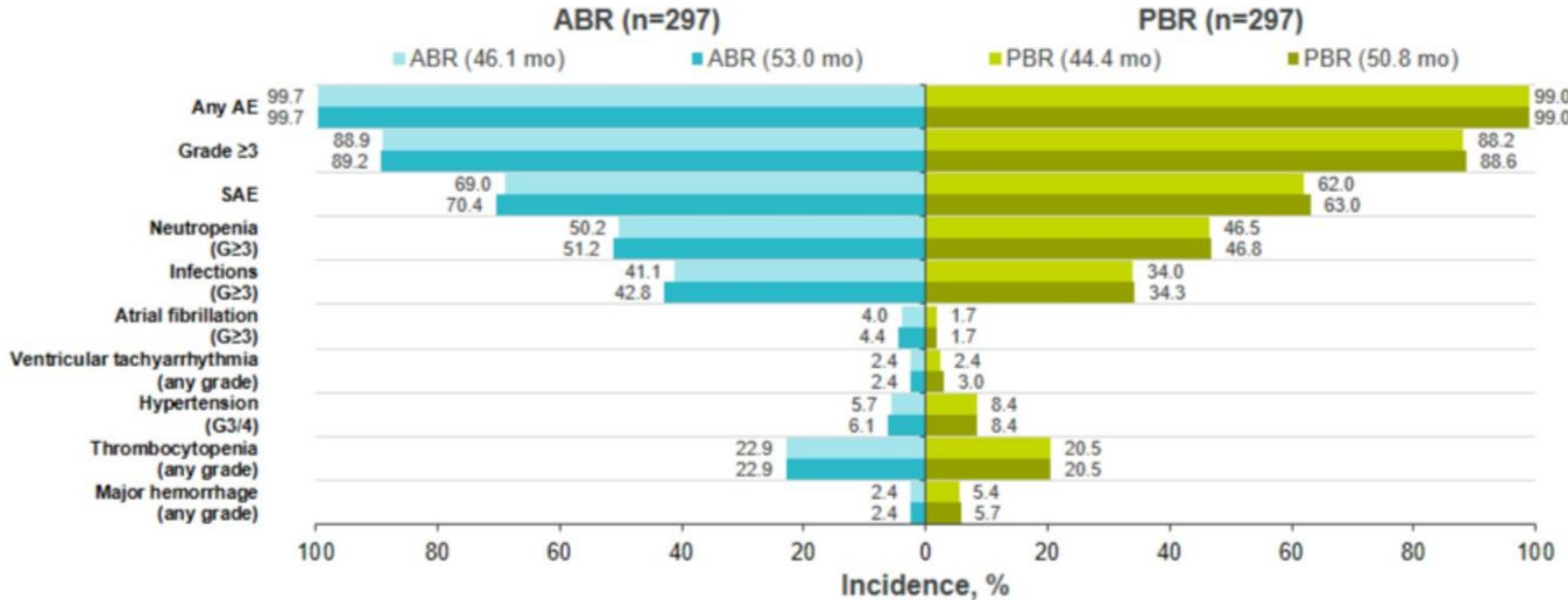


ABR lowered the risk of needing 3L therapy (TTNT2) by 24% compared with PBR

- At 48 months, the rate of patients who had not yet initiated 3L therapy or had not died was 67.6% for ABR vs 59.2% for PBR

ECHO Study: Long Term Safety

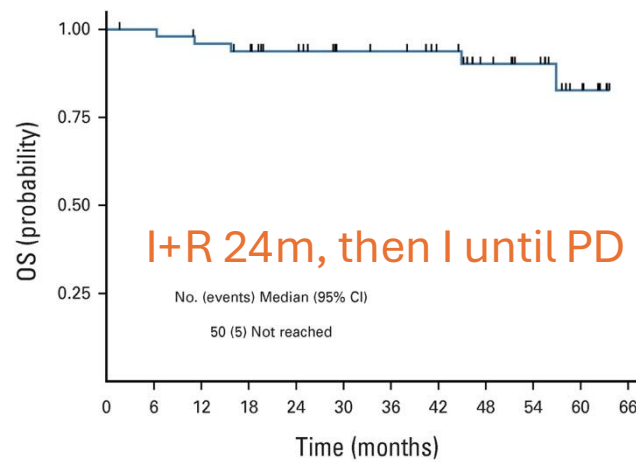
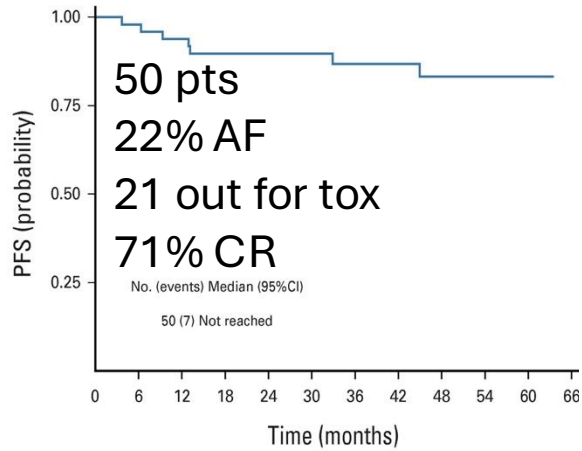
Safety & Long Term FUP



- ABR arm^a: 1 new case of grade ≥3 atrial fibrillation reported (primary, 4.0%; updated, 4.4%)
- PBR arm^a: 1 new case of ventricular tachyarrhythmia reported (primary, 2.4%; updated, 3.0%)

Towards a chemofree 1L therapy in MCL

R + Ibrutinib

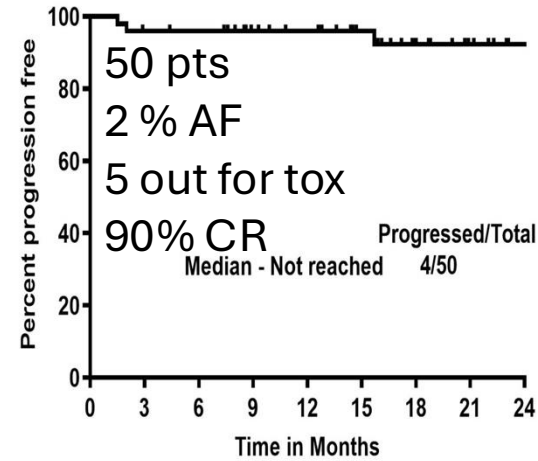


Median PFS NR
3-year 87%

Ki-67% > 50% and blastoid excluded.
Ki67 30-50% in 24% pts. s-MIPI high in 16%

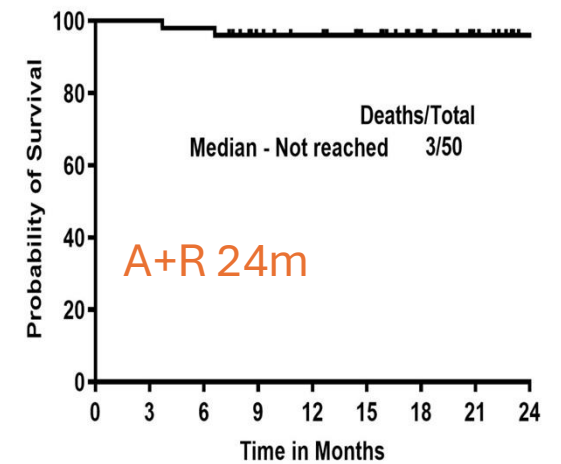
Median OS NR
3-year 94%

R+ Acalabrutinib



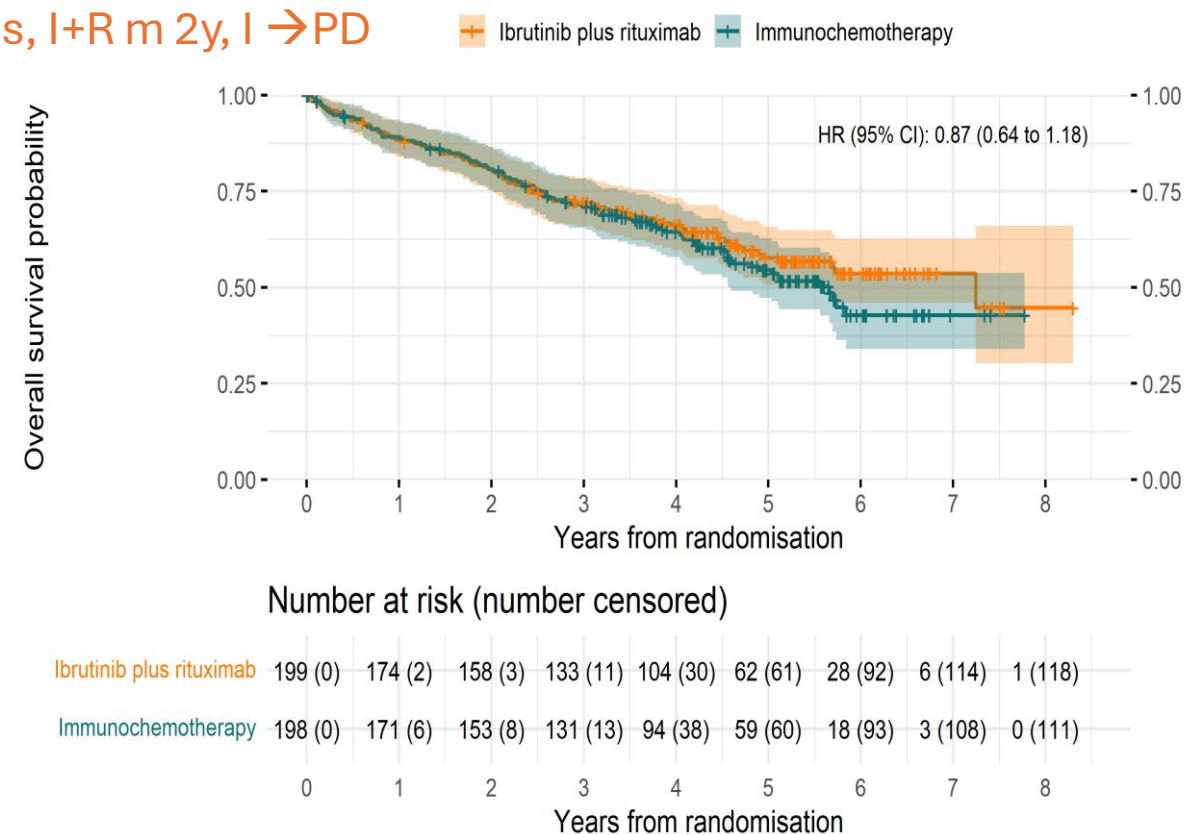
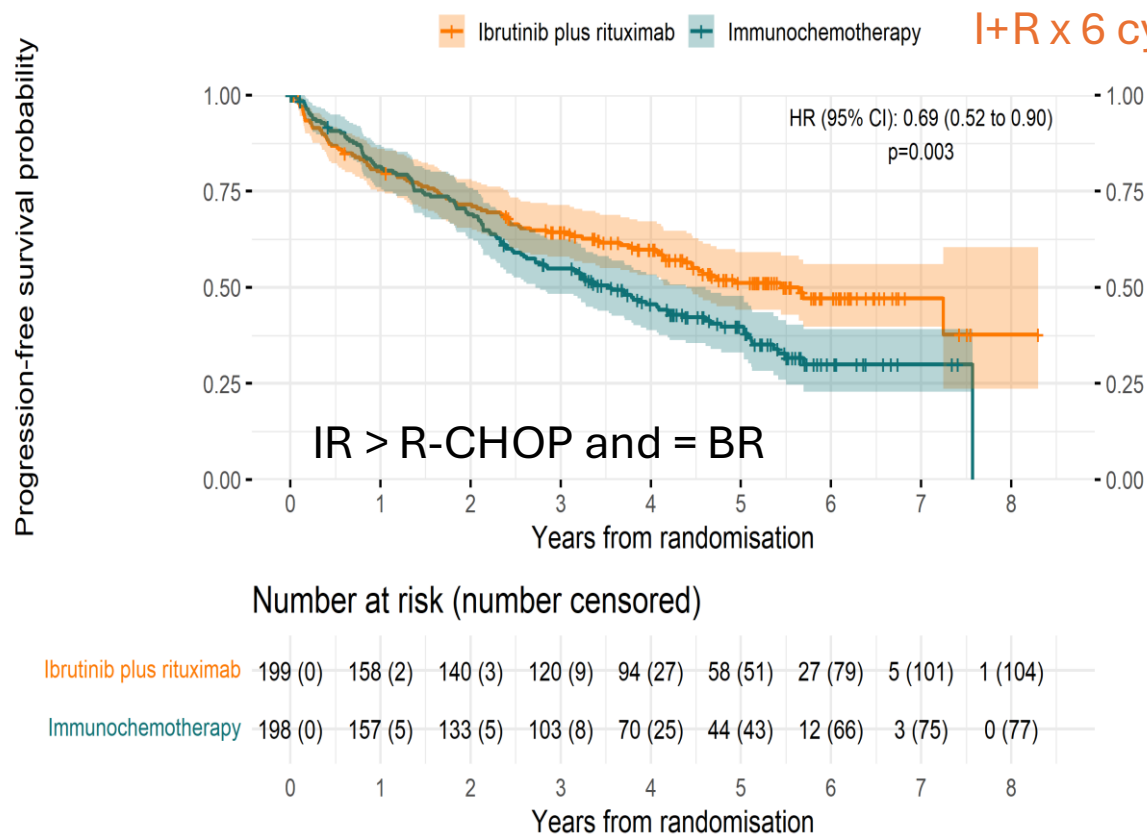
Median PFS NR
2-year 92%

Ki-67% > 50% in 31% pts, 3 blastoid,
s-MIPI high in 22% pts



Median OS NR
2-year 96%

Towards a chemofree 1L therapy in MCL



PFS median (95% CI)

IR: 65.3 mo (52.7 to not evaluable)

R-chemo: 42.4 mo (32.7 to 55.3)

5-year OS (95% CI)

IR: 57.7% (50.6% to 65.7%)

R-Chemo: 54.5% (47.3% to 62.8%)

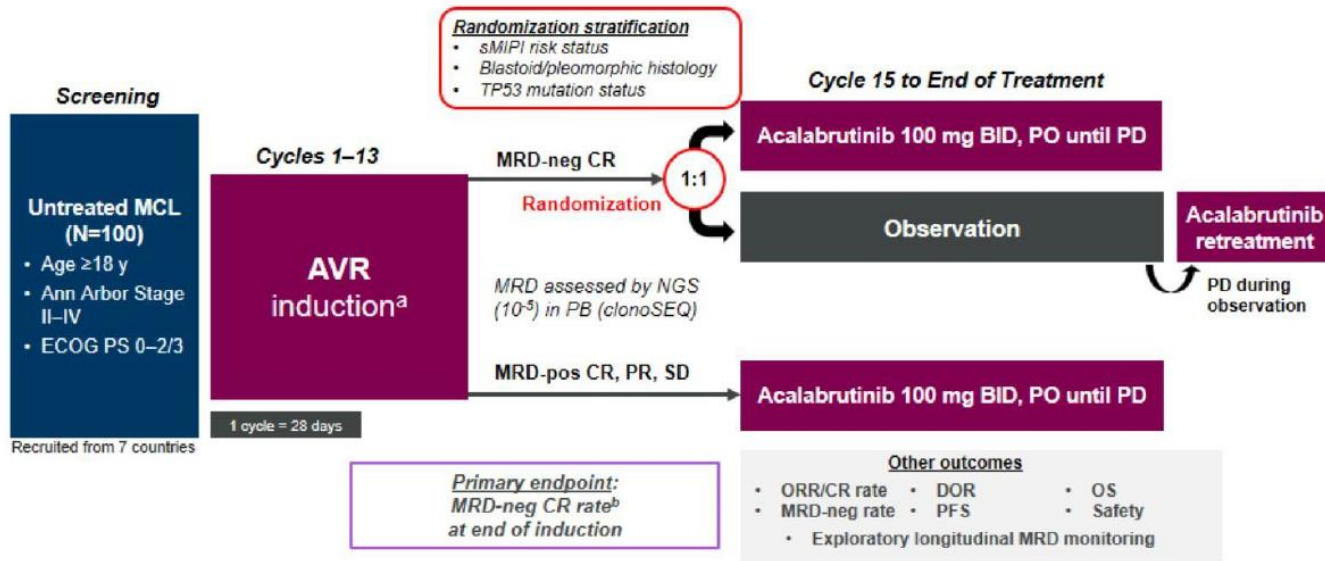
IR: CR 54%

R-chemo: CR 53%

TrAVeRse Study

Chemofree 1L Triplets

TrAVeRse Study Design: Multicenter, Open-label, Phase 2 Trial

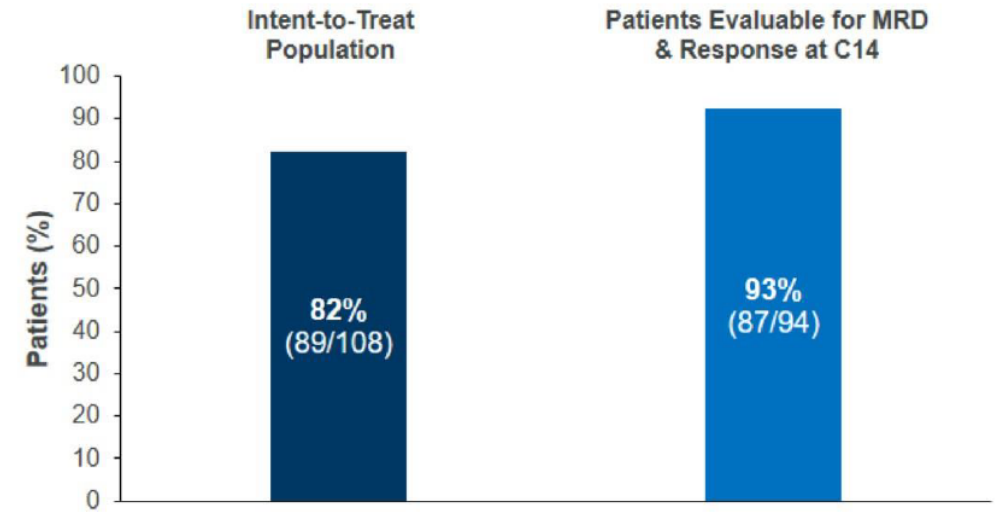


NCT05951959.

^aAVR induction: acalabrutinib 100 mg BID (C1-C13; also given in C14 post-induction), venetoclax (C2-C13 [5-week ramp-up in C2: 20 mg up to 400 mg daily]), rituximab (375 mg/m² day 1 of C1-12).

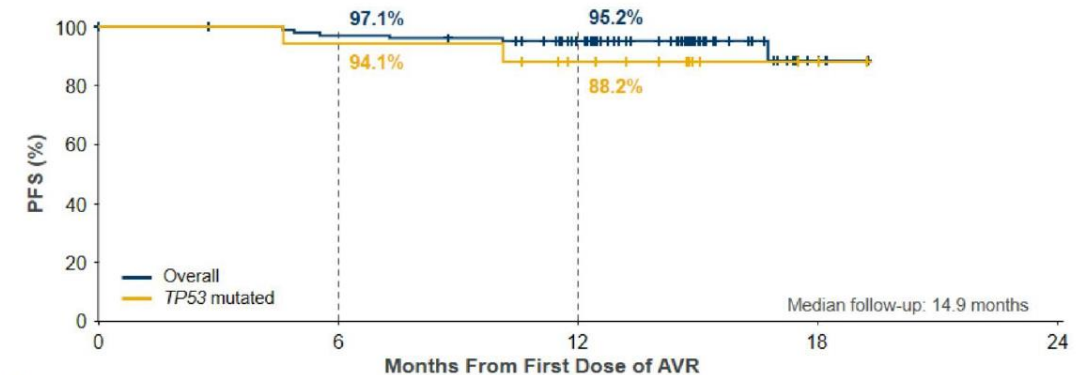
^bMRD-neg (in PB by NGS [10⁻⁵; clonoSEQ]) while in CR (per Lugano criteria).

AVR, acalabrutinib + venetoclax + rituximab; BID, twice daily; C, cycle; CR, complete response; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; MCL, mantle cell lymphoma; MRD, measurable residual disease; neg, negative; NGS, next-generation sequencing; ORR, overall response rate; OS, overall survival; PB, peripheral blood; PD, progressive disease; PFS, progression-free survival; PO, orally; pos, positive; PR, partial response; SD, stable disease; sMIPI, simplified Mantle Cell Lymphoma International Prognostic Index; TN, treatment naive.



Progression-free Survival

PFS rates were high, regardless of TP53 mutation status



No. at risk	0	6	12	18	24
Overall	108	102	90	3	0
TP53 mutated	17	16	12	2	0

MCL: past, current & future treatment scenario

R/R MCL

