



65th ASH Meeting 2023
San Diego & virtuell

Lymphom
Kompetenz
KOMPAKT



KML KONGRESSE

Expert:innen berichten zu
Lymphomen & Leukämien



Prof. Dr. med. Martin Dreyling
Klinikum der Universität München

Mantelzell-Lymphom (MCL)

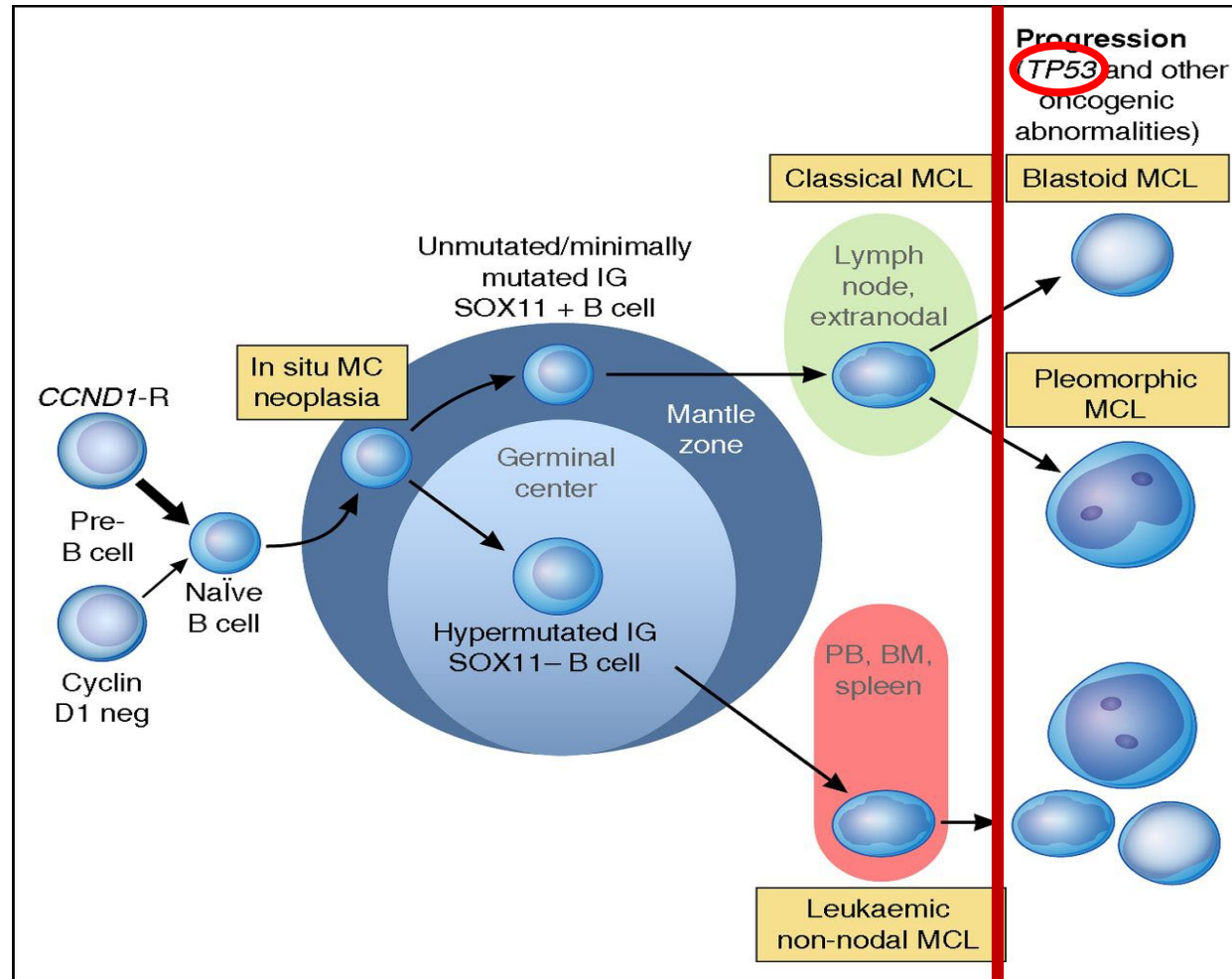
Offenlegung potentieller Interessenskonflikte

LymphomKompetenz KOMPAKT – ASH2023 wird in Kooperation mit acht unterstützenden Firmen durchgeführt.
Meine persönlichen Disclosures betreffen:

Research Support (institution)	Abbvie, Bayer, BMS/Celgene, Gilead/Kite, Janssen, Roche
Employee	-
Major Stockholder	-
Speakers Bureau	-
Speakers Honoraria	Astra Zeneca, Beigene, Gilead/Kite, Janssen, Lilly, Novartis, Roche
Scientific Advisory Board	Abbvie, Astra Zeneca, Beigene, BMS/Celgene, Gilead/Kite, Janssen, Lilly/Loxo, Novartis, Roche

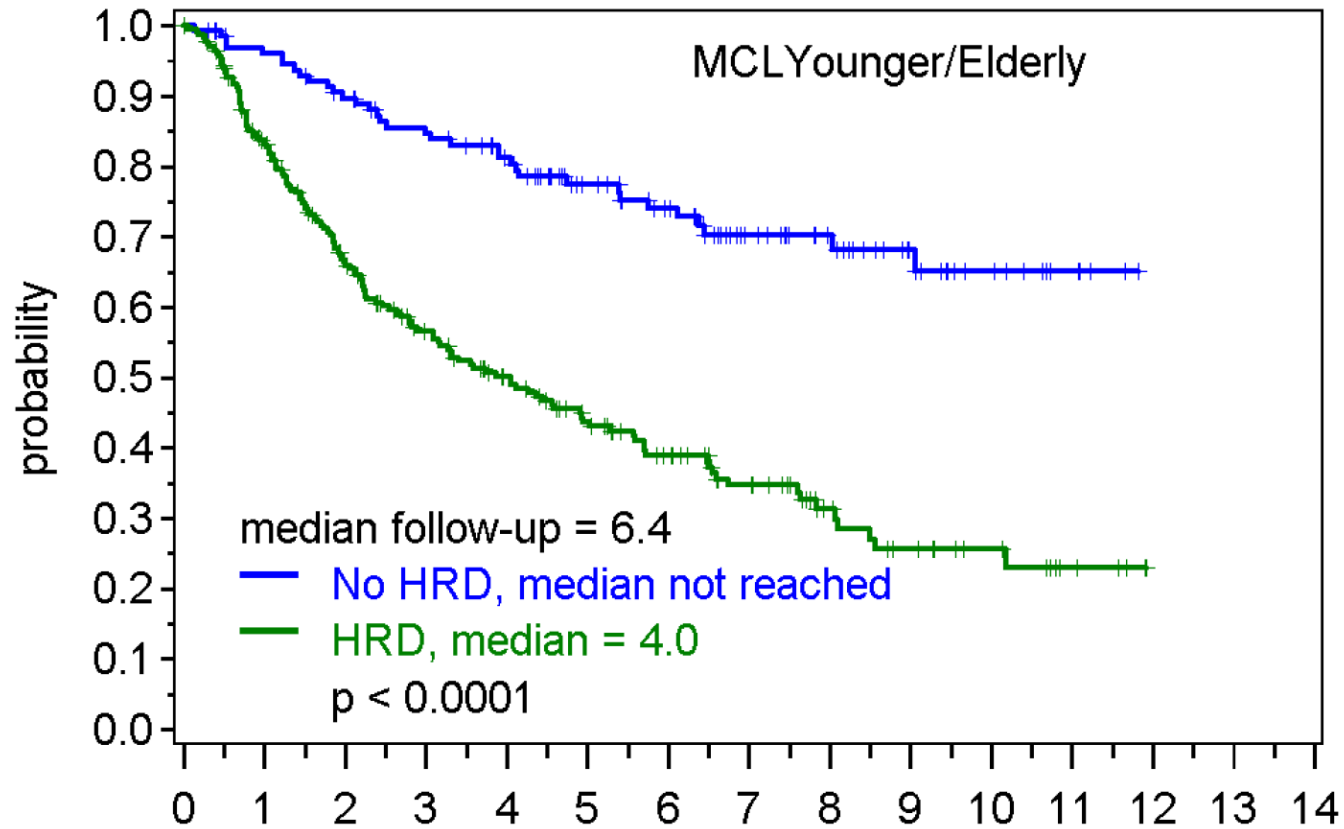
Mantelzell-Lymphom

Spektrum der Erkrankung



Hochrisiko Mantelzell-Lymphom

Gesamt-Überleben (n=465)



	Numbers At Risk												
	0	1	2	3	4	5	6	7	8	9	10	11	12
No HRD	132	121	111	101	91	72	61	44	33	22	12	5	0
HRD	233	183	138	108	88	70	54	39	23	16	11	5	0

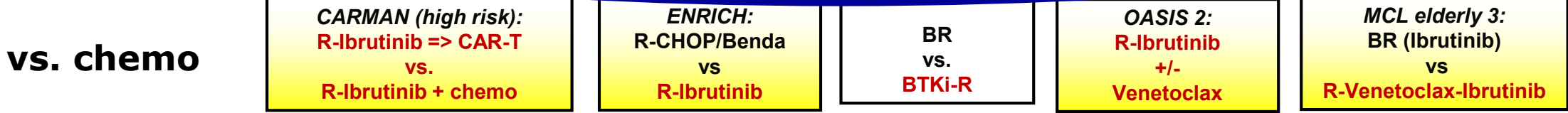
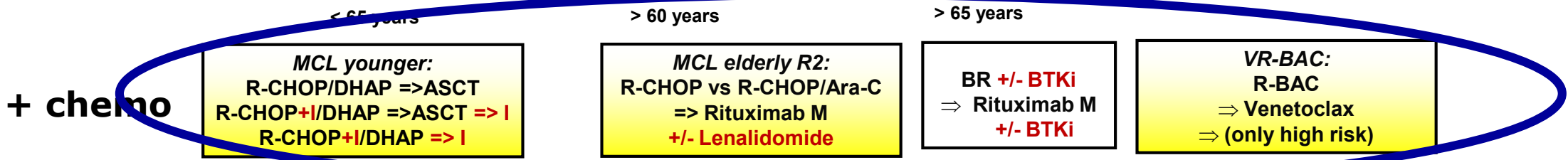
Kapitel 1

Erstlinientherapie.

Immun-Chemotherapie & targeted Therapie

European MCL Network

Study generation 2023

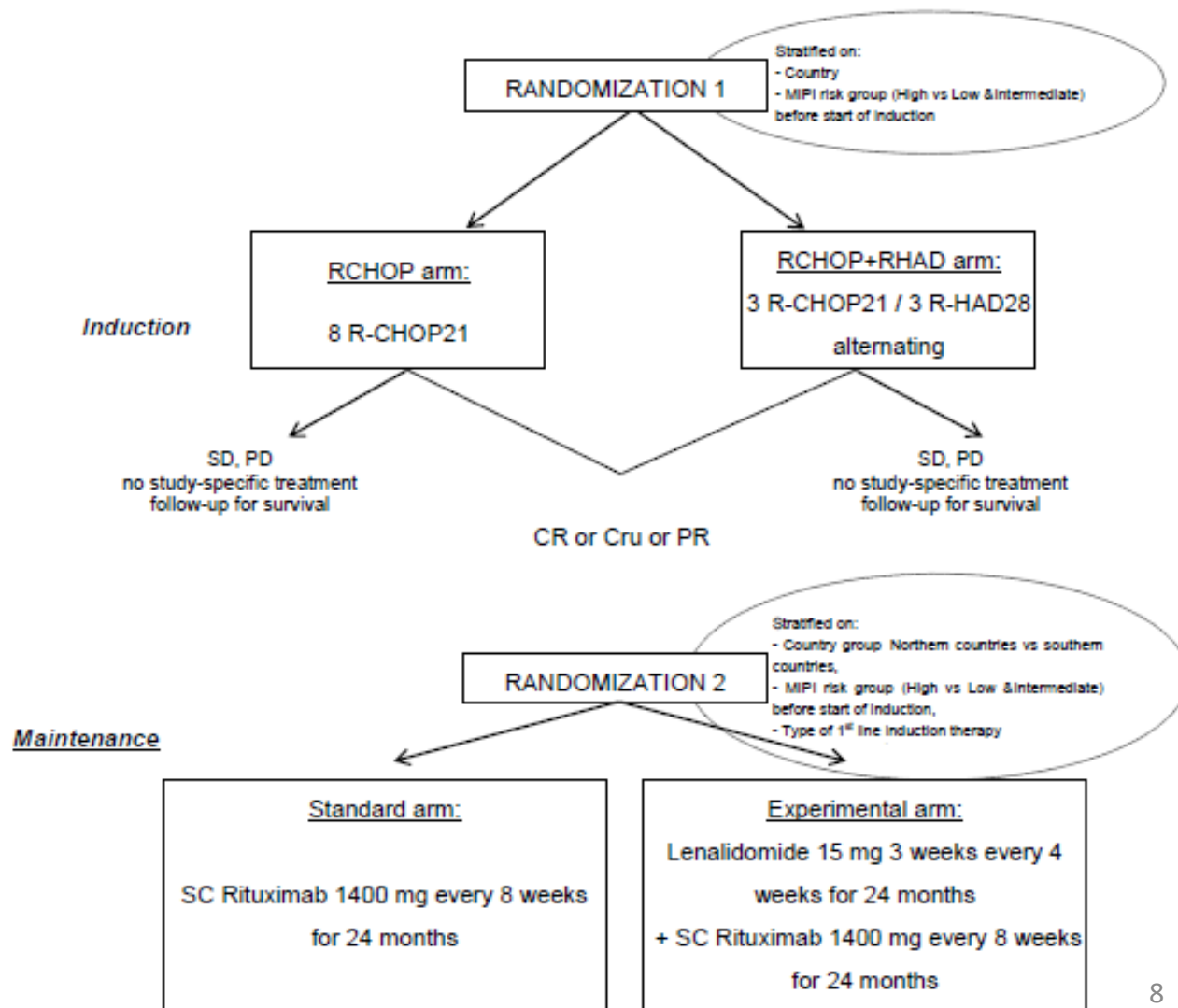


Relapse





Response assessment
according to Cheson
1999 criteria

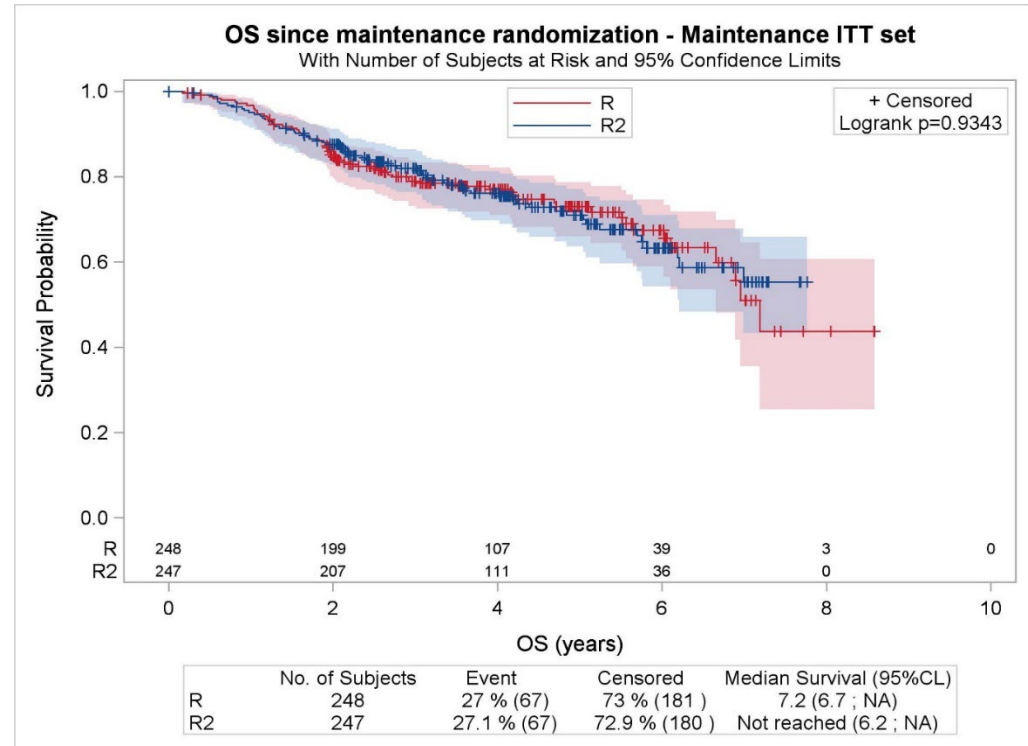
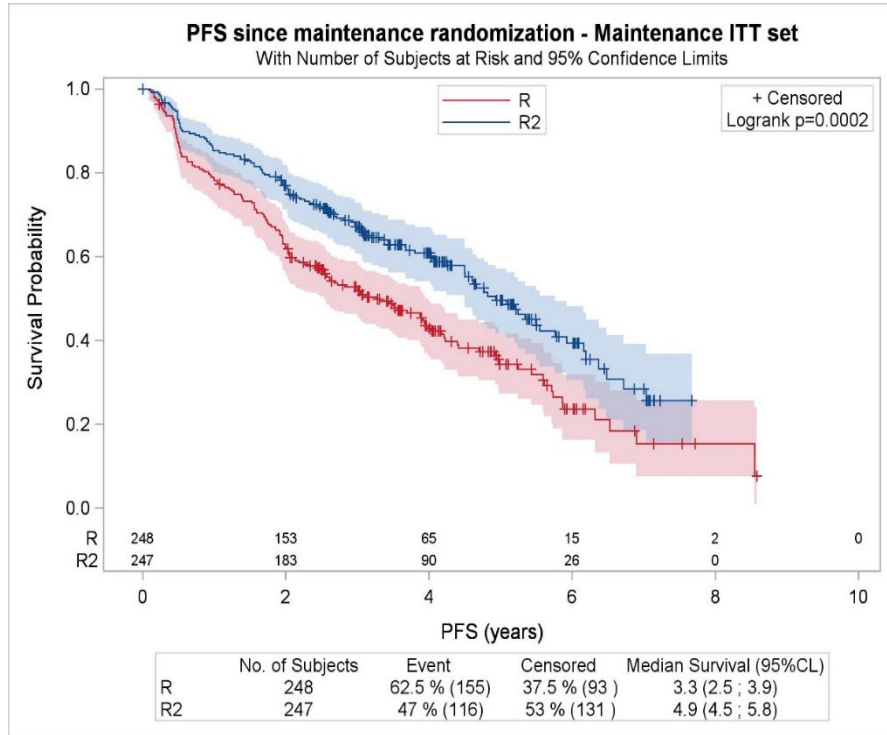


Follow-up: for progression death and SPM until the end of the study

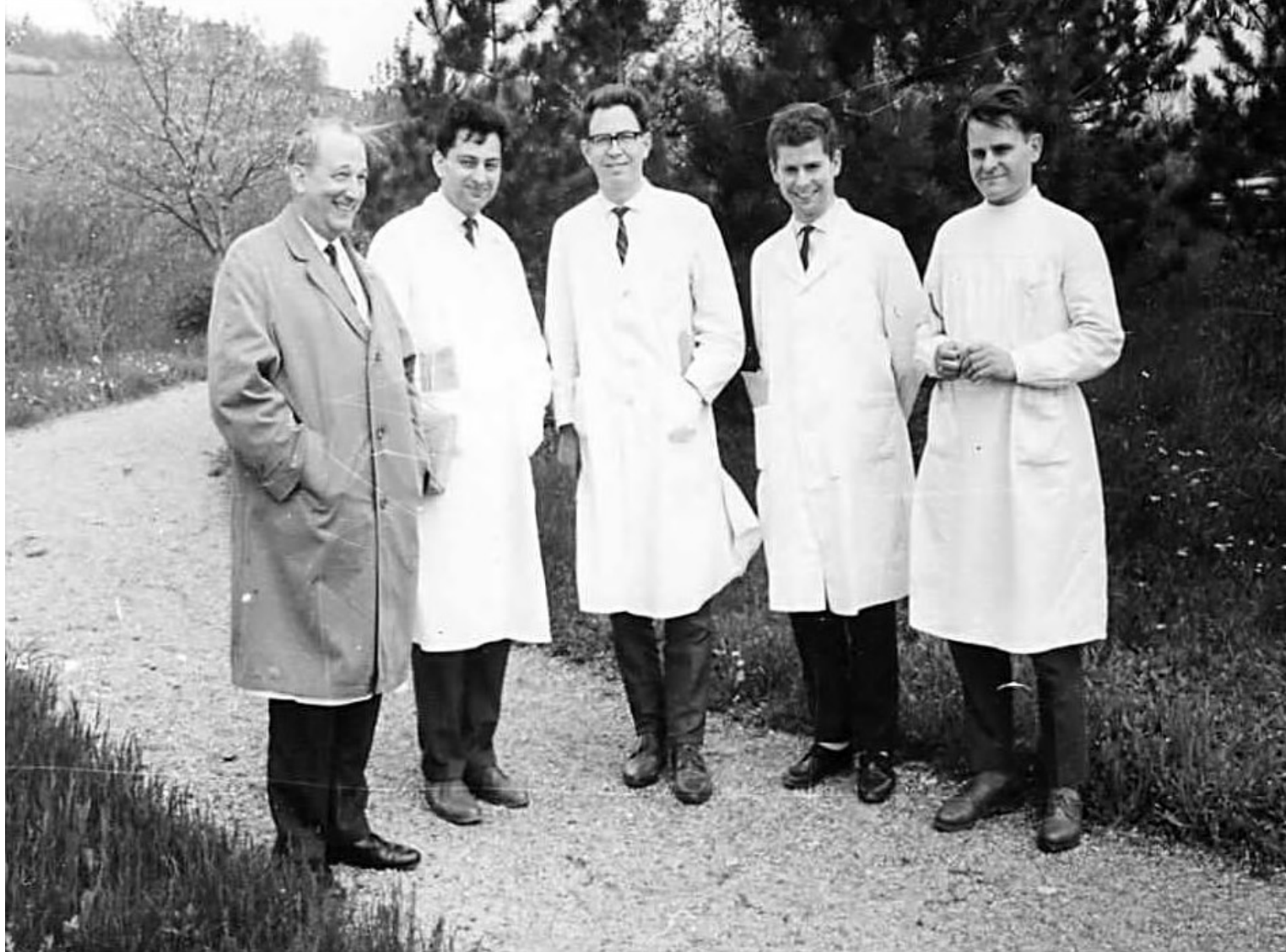
MCL-R2 Elderly: safety maintenance

SAE all grade during maintenance phase – Maintenance Safety set	R N=250	R2 N=238
Blood and Lymphatic System Disorders	70 (121 events)	144 (520 events)
Neutropenia > grade 2	48 (66 events)	124 (344 events)
Anemia > grade 2	1 (1 event)	9 (9 events)
Infections and Infestations	60 (100 events)	105 (183 events)
SPM	36 (47 events)	45 (80 events)
Death for Toxicity	1	3

MCL-R2 Elderly: PFS analysis



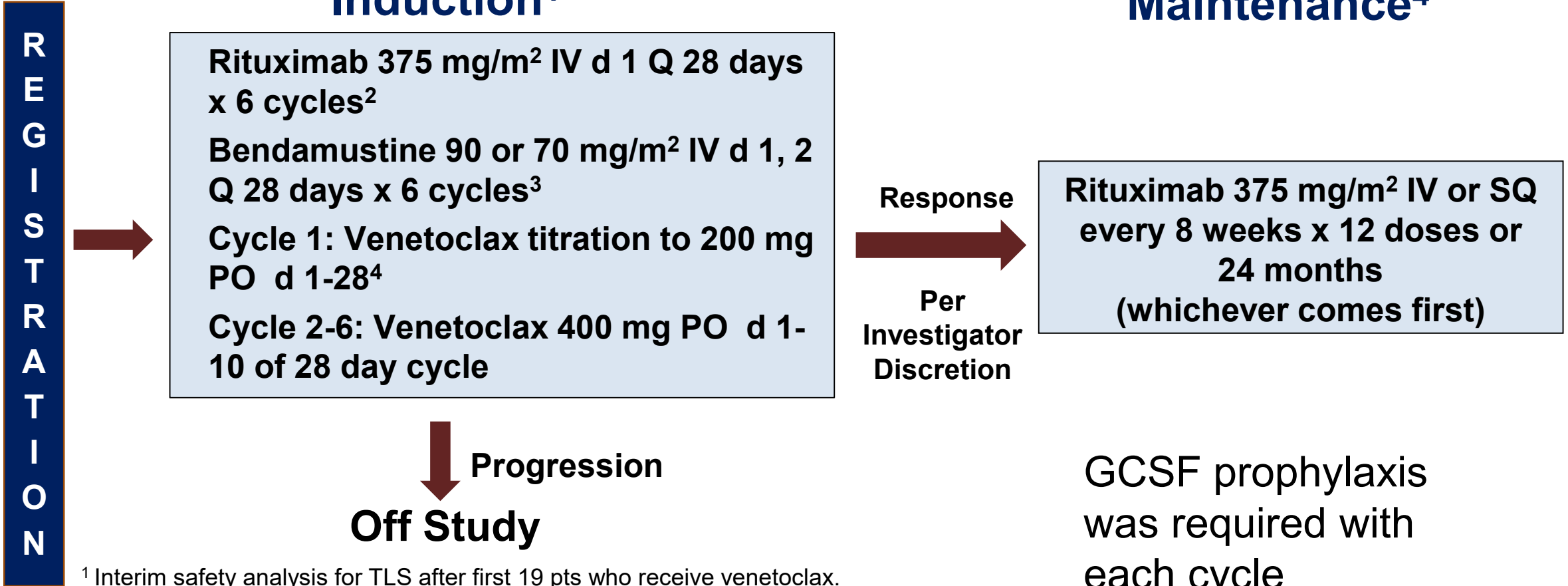
Bendamustine: An 'agent' with a long history



- synthesis : W.Ozegowski, D.Krebs, Institute of Microbiology and Experimental Therapy, Jena (1962)
- Published in *Journal für Praktische Chemie*, Vol. 20, issue 3-4, 1963

Study Schema

N=33



¹ Interim safety analysis for TLS after first 19 pts who receive venetoclax.

² If first 2 cycles of IV rituximab tolerated, may use SQ.

³ 70 mg/m² allowed per investigator discretion for subjects over 75 years of age.

⁴ After EOT, subjects responding to therapy may receive maintenance rituximab (every 8 weeks for 12 doses over 24 months) per physician and patient preference

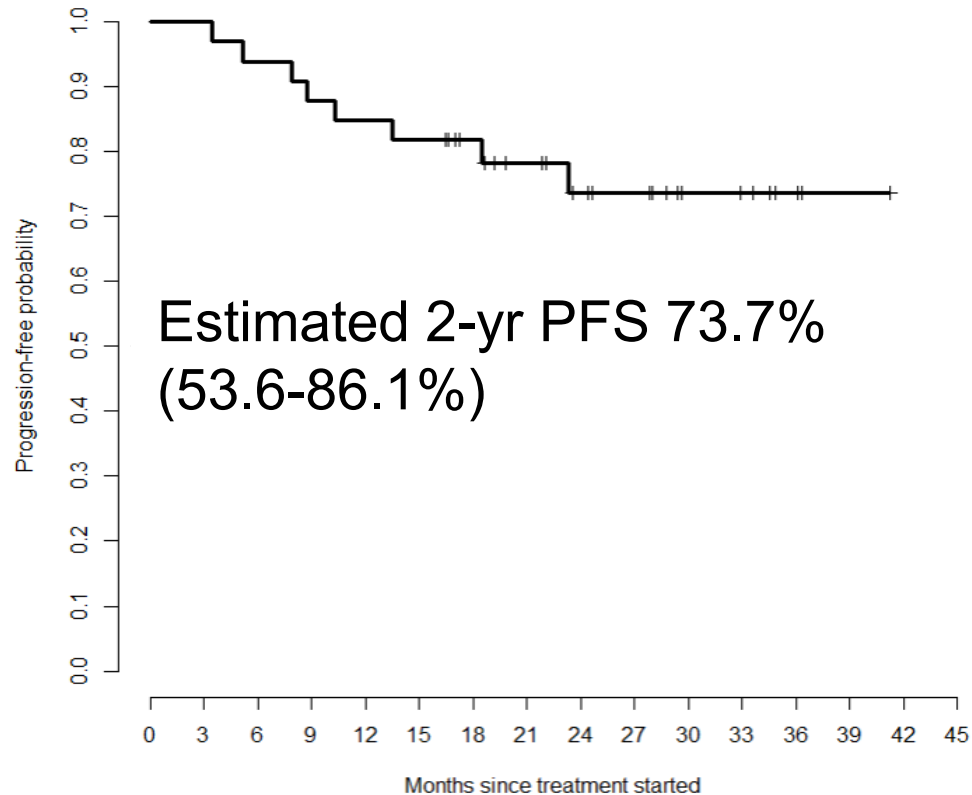
Treatment Details

- 7 (21%) of subjects were treated with bendamustine 70 mg/m²
- Laboratory TLS was seen in 2 of 33 subjects during C1 only
 - NO clinical TLS was seen
- Dose adjustments or delays occurred in 36% and 67% of subjects respectively
- 22 (66.7%) of subjects completed all 6 cycles
 - Reasons for treatment discontinuation prior to 6 cycles include:
 - AE (n=6)
 - Death (n=1)
 - Investigator Discretion (n=1)
 - Progression (n=1)
 - Other (n=2)

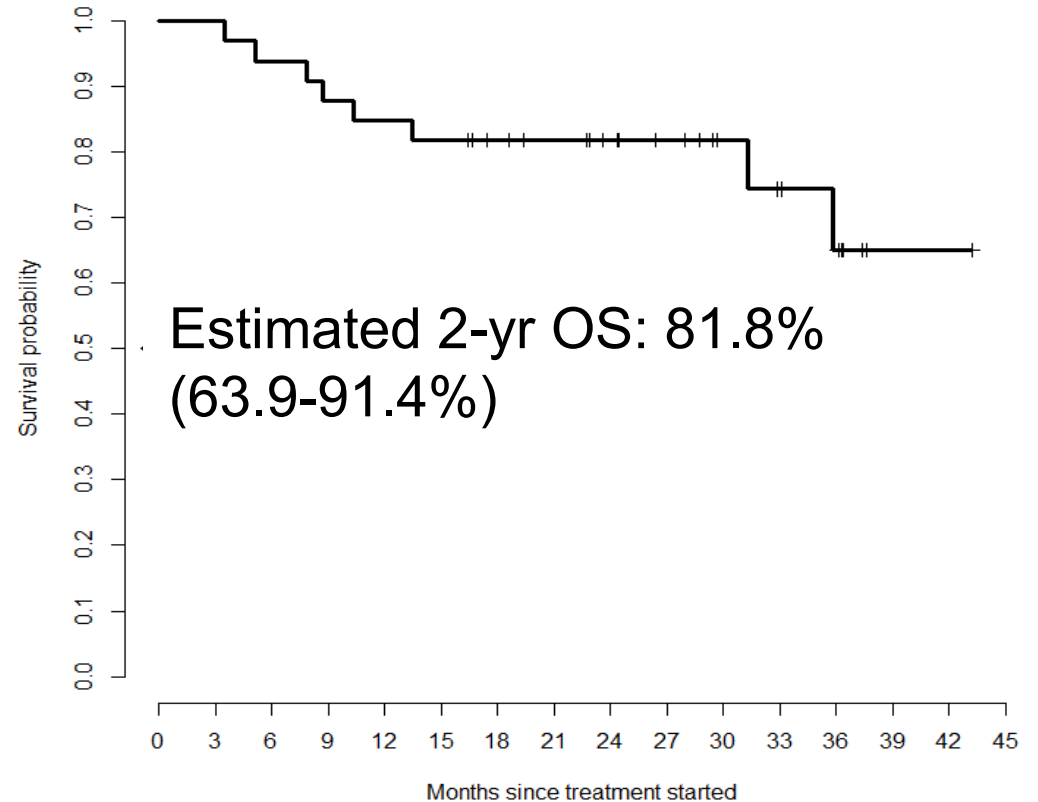
Survival

Updated August 2023

Progression-Free Survival

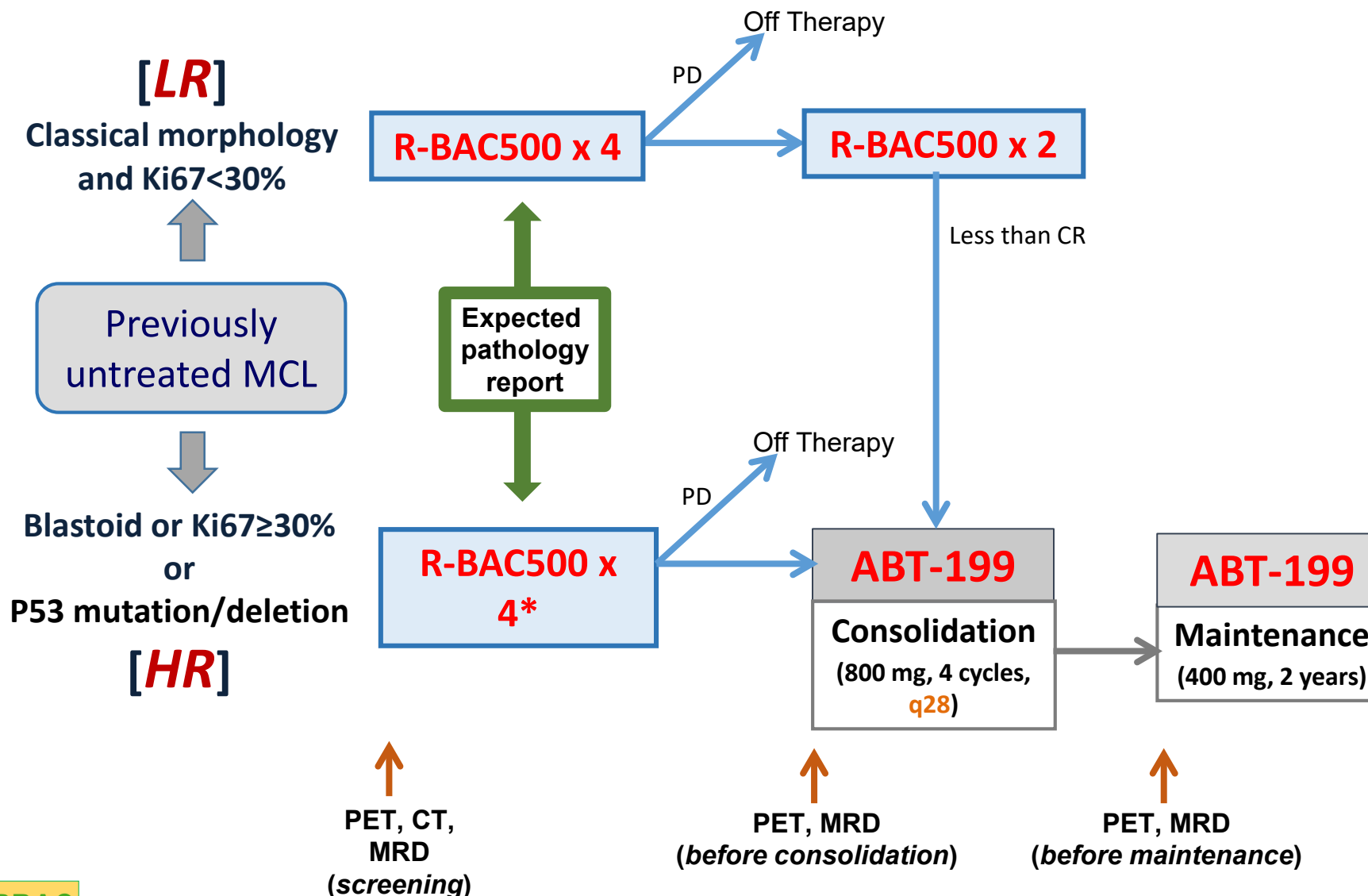


Overall Survival



* Median (Q1, Q3) follow up of 28.7 (22.8, 36.1)

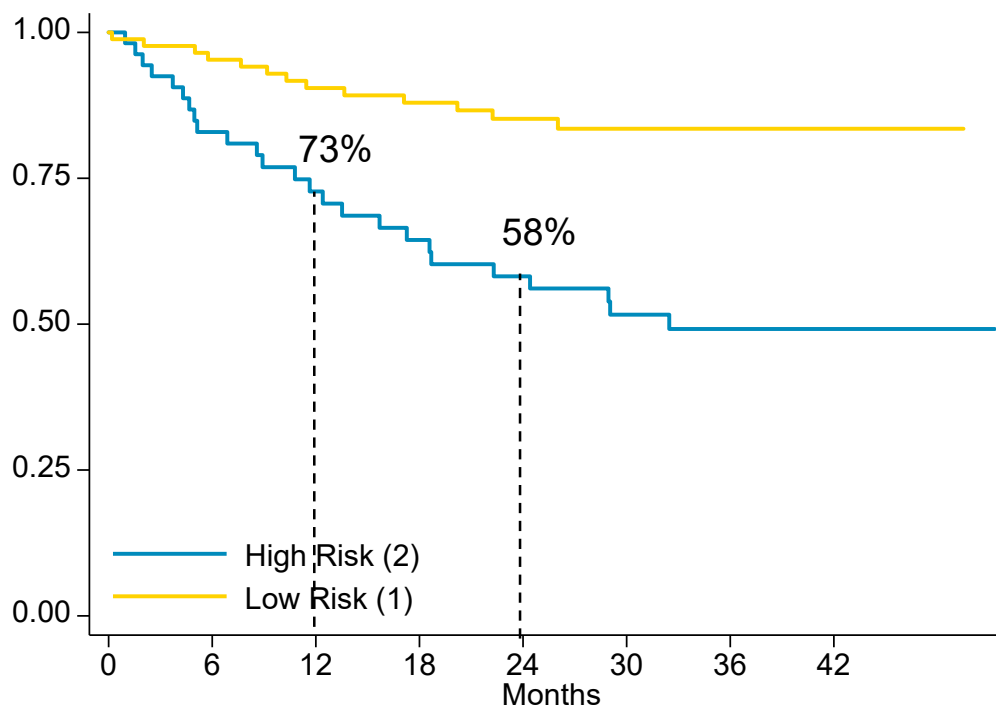
Study Design



V-RBAC

*Less than 4 cycles allowed in case of toxicity

Progression-free Survival by risk group



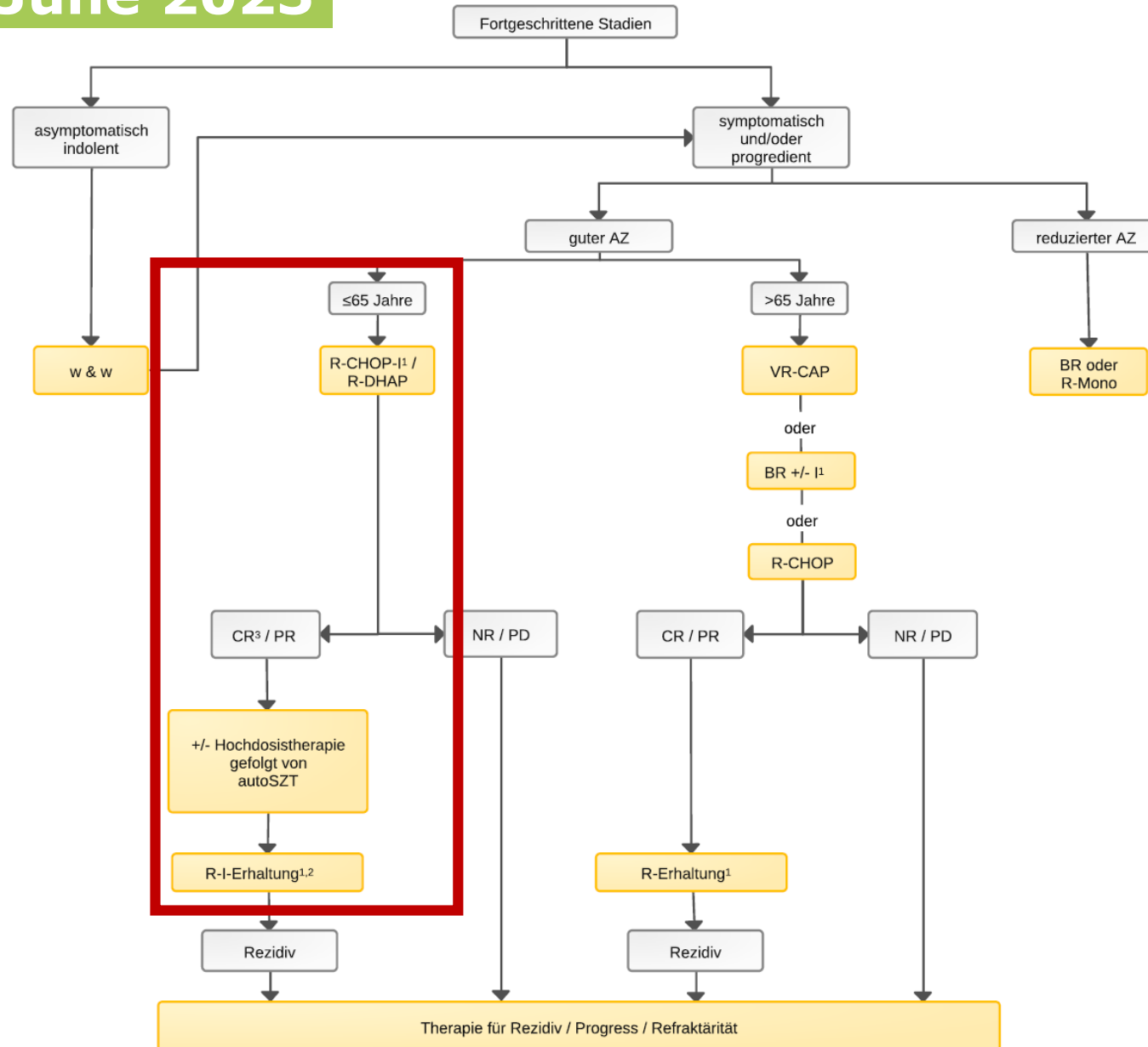
At risk:

High Risk (2)	54	42	35	31	28	22	15	10
Low Risk (1)	86	81	73	70	56	42	26	13

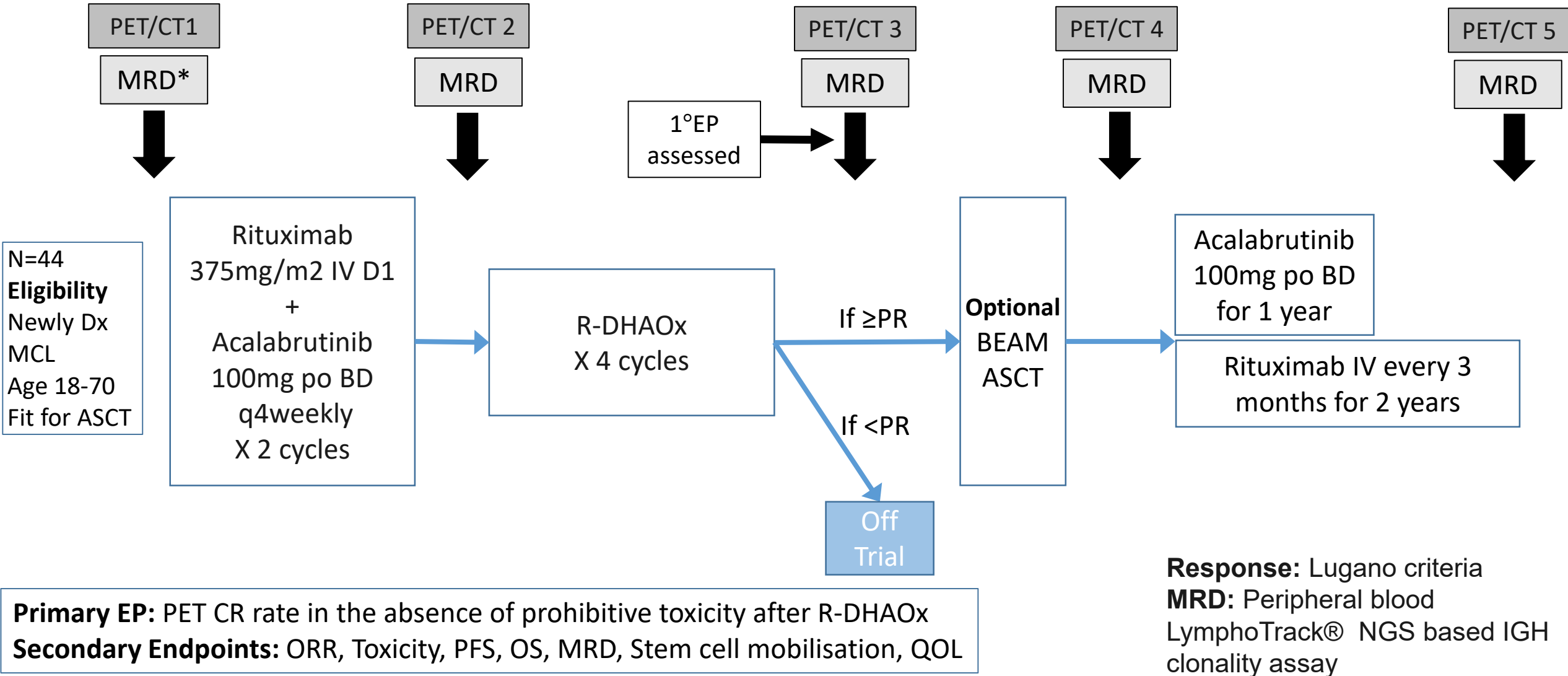
Time	Survivor Function	Std. Error	[95% Conf. Int.]	
Low Risk (1)				
12	0.9046	0.0321	0.8182	0.9511
24	0.8519	0.0396	0.7534	0.9133
High Risk (2)				
12	0.7274	0.0624	0.5929	0.8209
24	0.5819	0.0701	0.4329	0.7046

Mantle cell Lymphoma

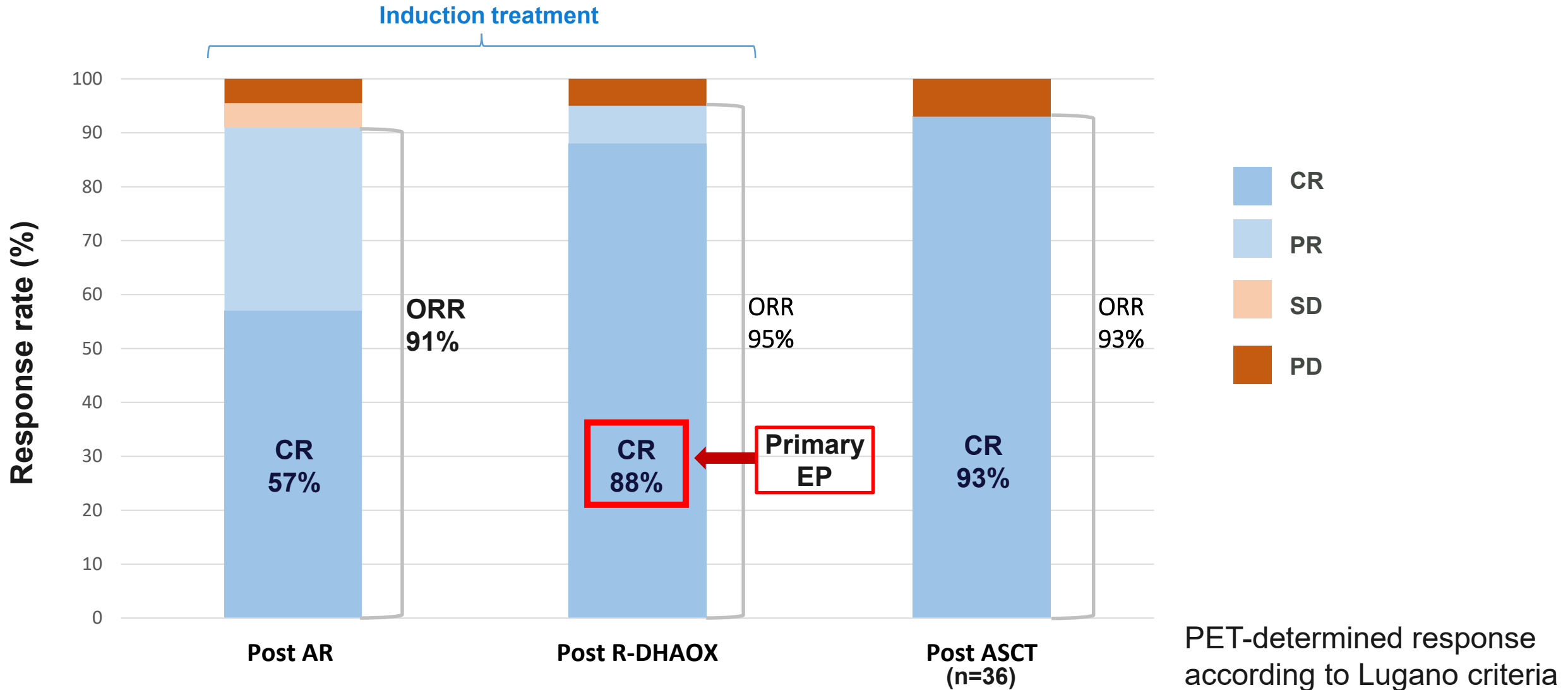
Onkopedia June 2023



NHL33 WAMM Study schema: Single-arm Phase II study

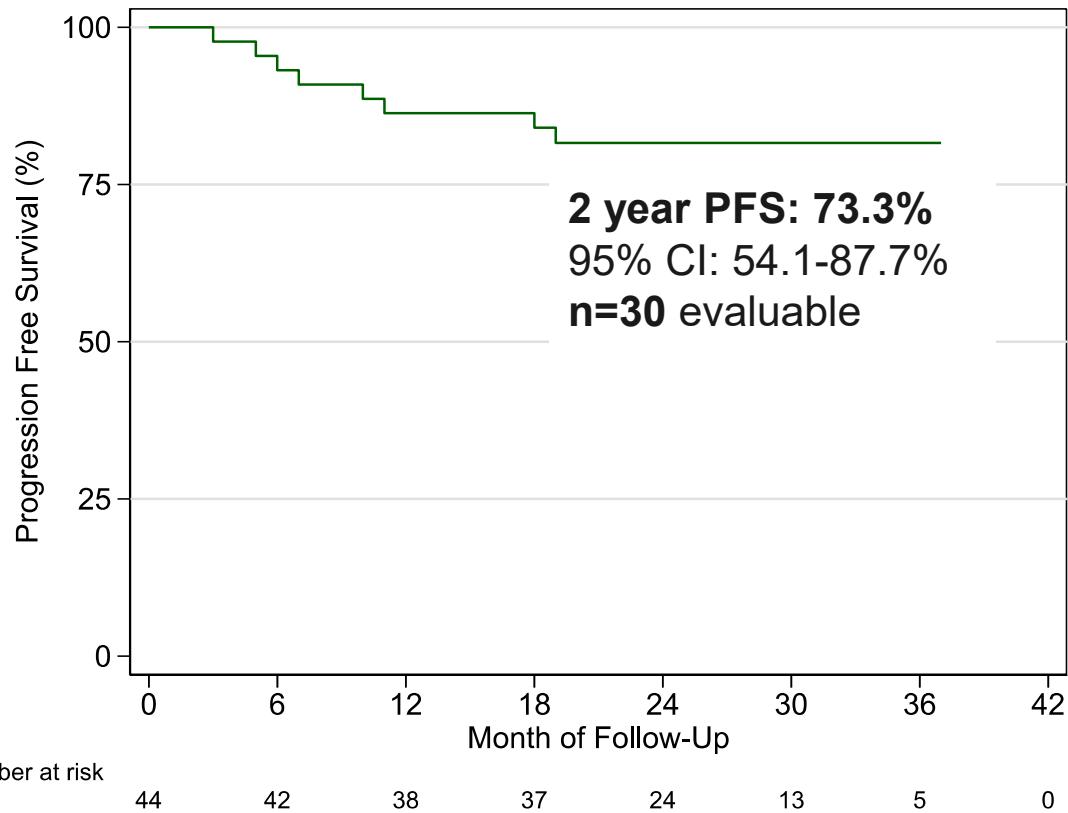


NHL33 WAMM: Primary endpoint and overall response rates

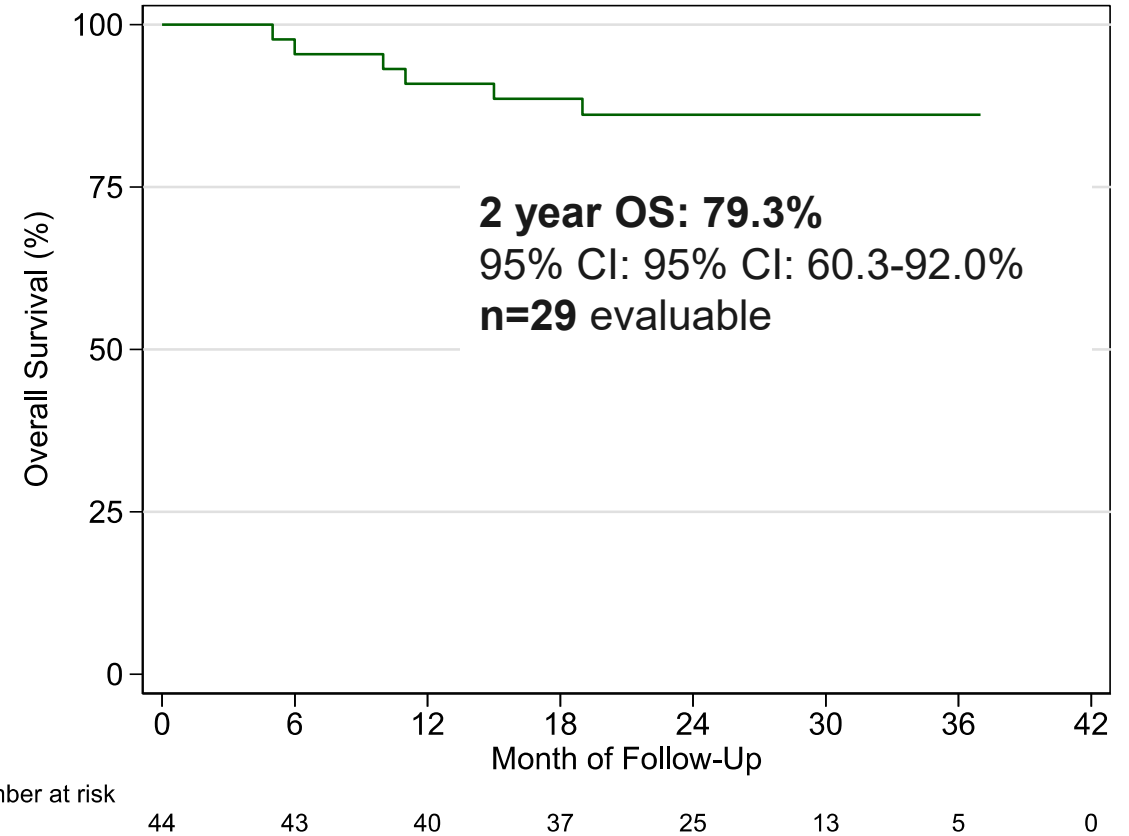


NHL33 WAMM: PFS and OS

Progression-free survival



Overall survival



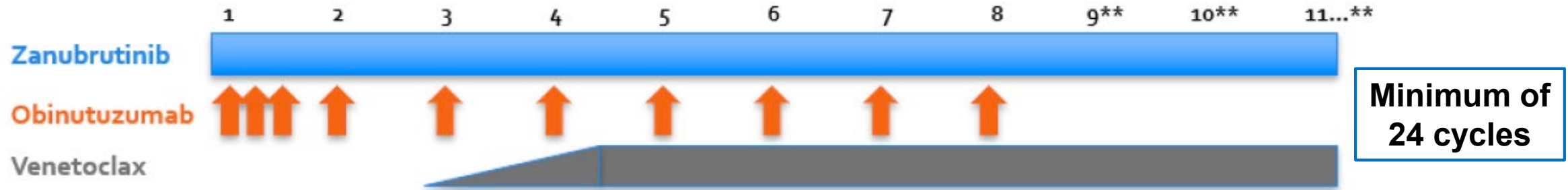
With median follow-up of 25 months (range 5-37) there were 7 progression events and 6 deaths (5 due to PD, 1 COVID pneumonitis).

Kapitel 2

Erstlinientherapie.

(keine Immun-Chemotherapie &) targeted Therapie

Phase II Multicenter Study of BOVen

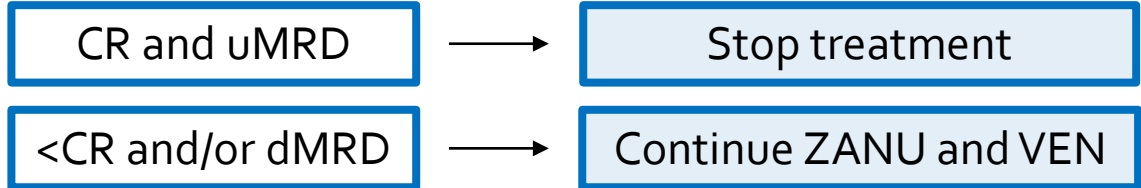


Dosing:

Zanubrutinib 160 mg oral twice daily **Obinutuzumab** 1000 mg IVPB
 Cycle 1: day 1, 8, 15
 Cycle 2-8: day 1

Venetoclax 400mg oral daily
 5-week ramp-up: 1 week each of 20mg; 50mg; 100mg; 200mg; 400 mg oral daily

After 24 cycles, MRD-driven approach to limit treatment duration in selected patients:



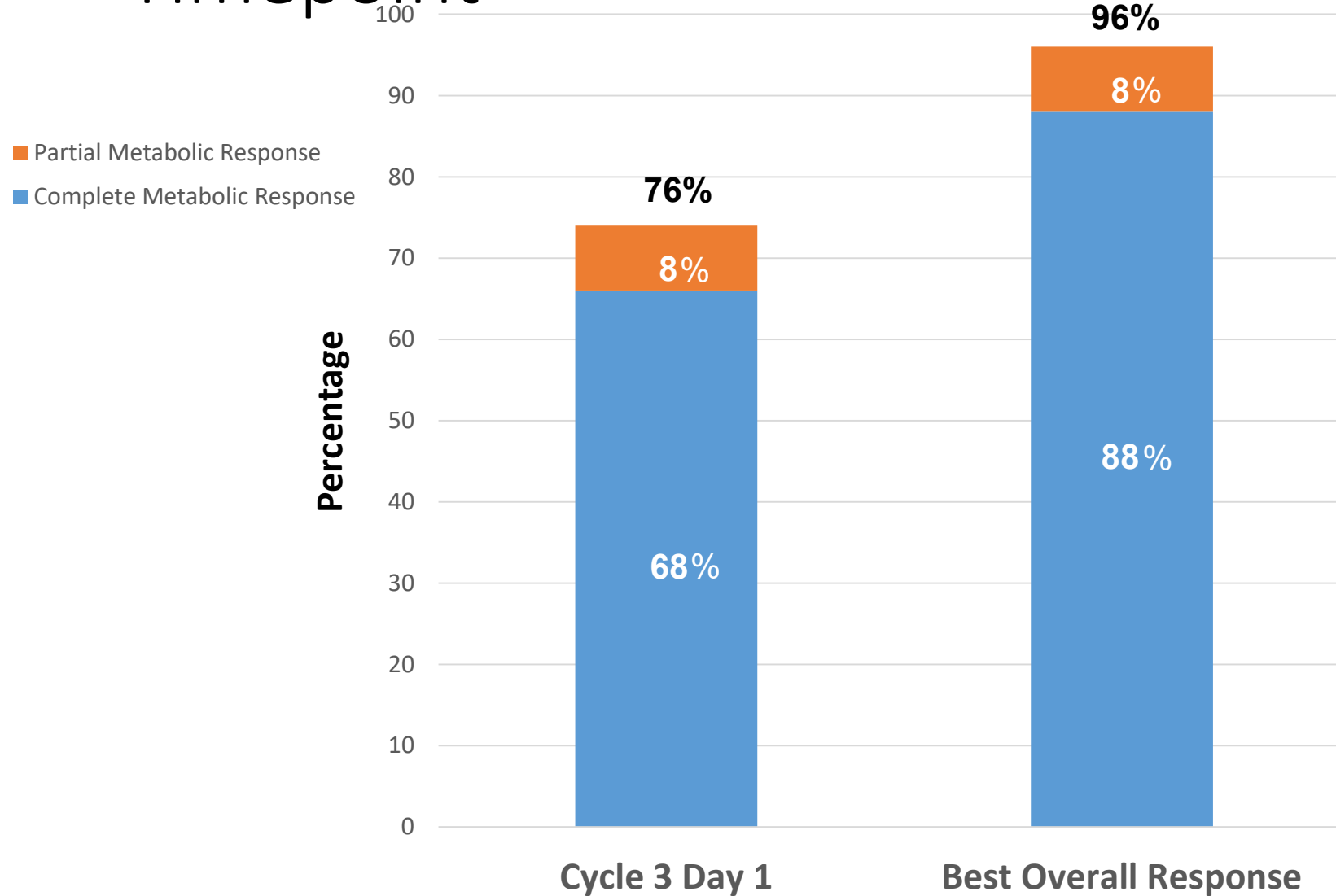
Key Eligibility Criteria:

- Previously untreated MCL (except localized RT prior)
- **TP53 mutation (of any variant allele frequency)**
- ECOG ≤2, adequate organ and hematologic function (ANC >1, PLT >75, HGB ≥9 (unless due to MCL))

Primary Endpoint:

- 2-year progression-free survival.
- A promising 2-yr PFS rate ≥55% and an unacceptable rate ≤30%
- If ≥11 patients were progression-free at 2 years, the treatment regimen would be declared effective

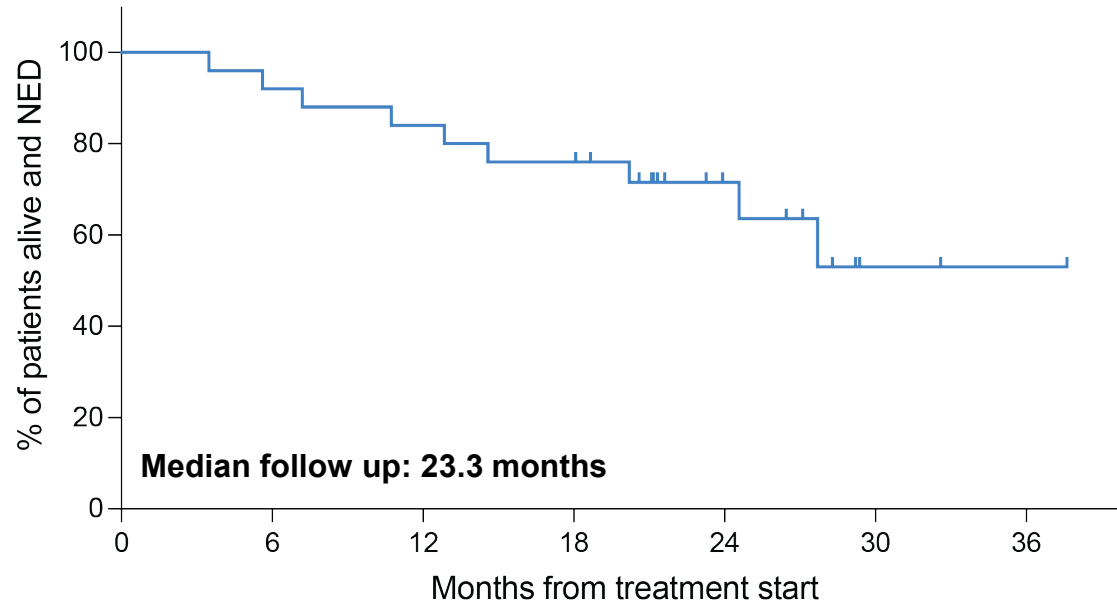
Response Rates By Timepoint



- High Metabolic Response Rates after 2 cycles of Zanu+Obin
- High Overall Metabolic Response Rate with Zanu+Obin+Ven

Progression-Free and Overall Survival Outcomes

Progression-Free Survival

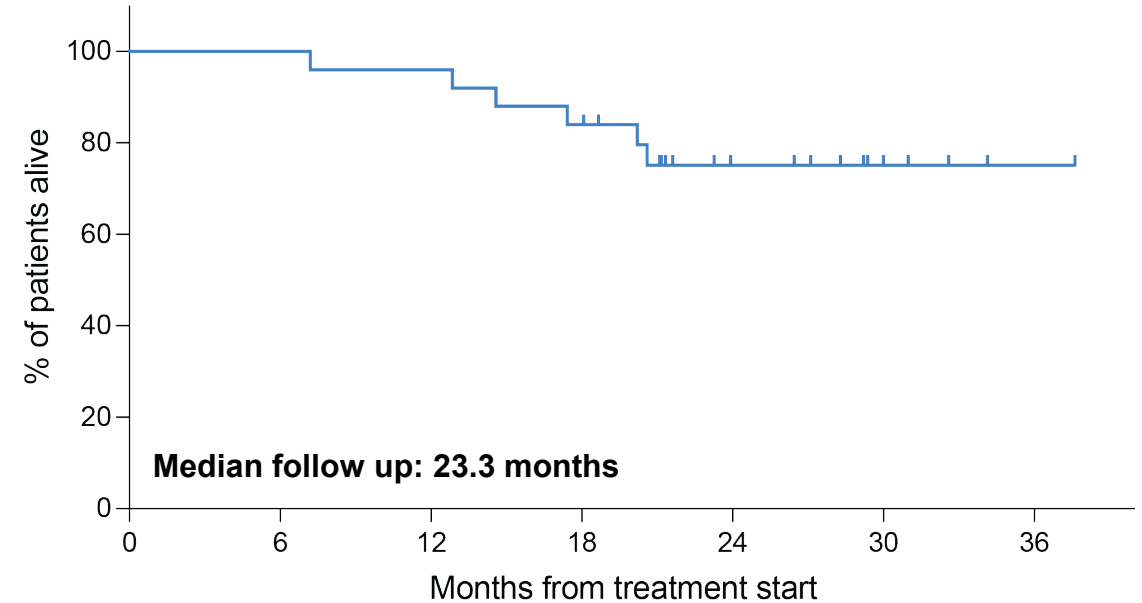


No. at risk 25 23 21 19 9 2 1

2-year PFS: 72% [95% CI: 56, 92]

Median PFS: not reached

Overall Survival



No. at risk 25 25 24 21 10 4 1

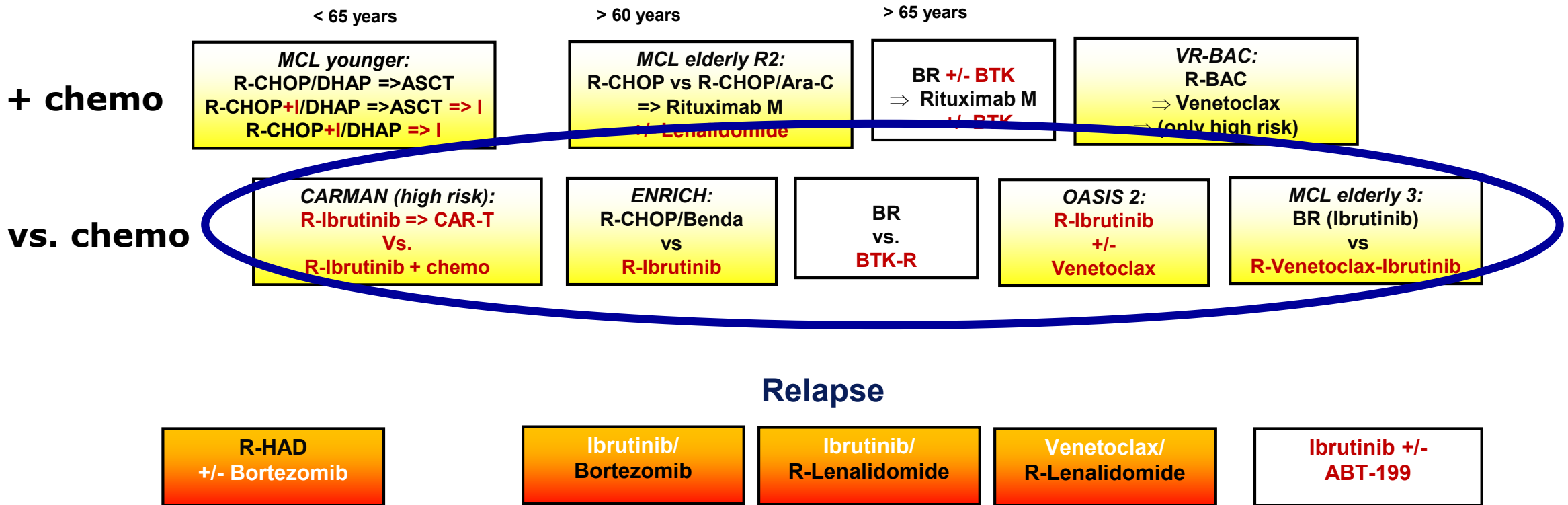
2-year OS: 75% [95% CI: 58, 93]

Median OS: not reached

**Primary PFS Endpoint is Met:
11 patients progression-free at 2 years**

European MCL Network

Study generation 2023

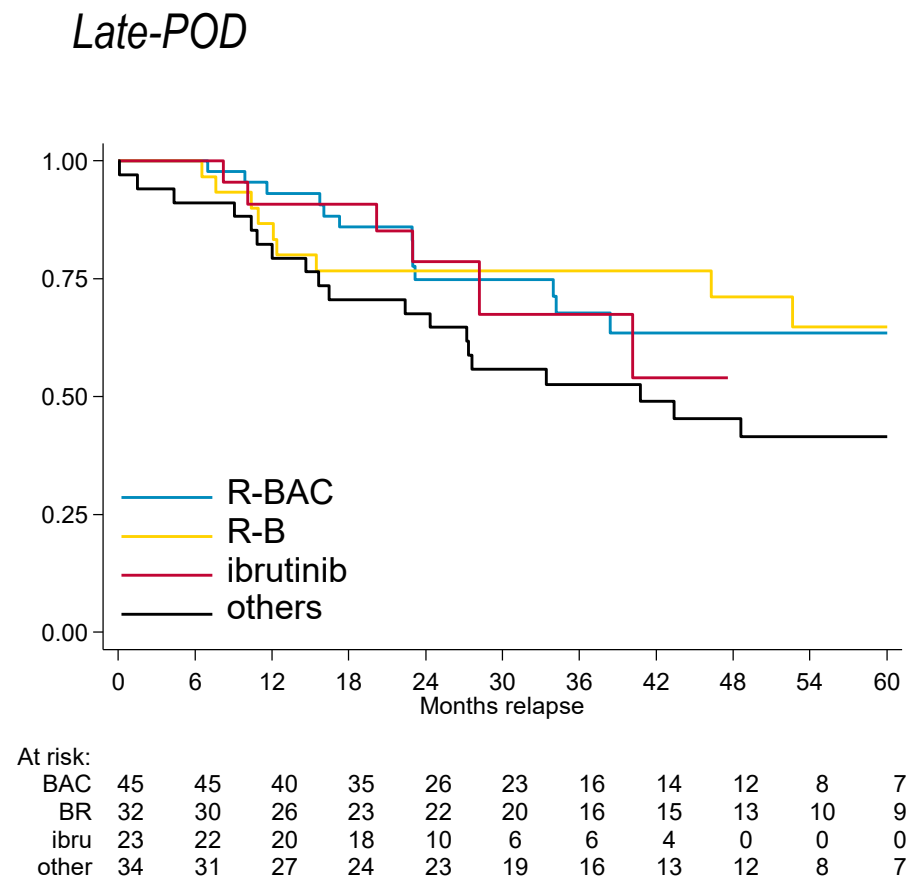
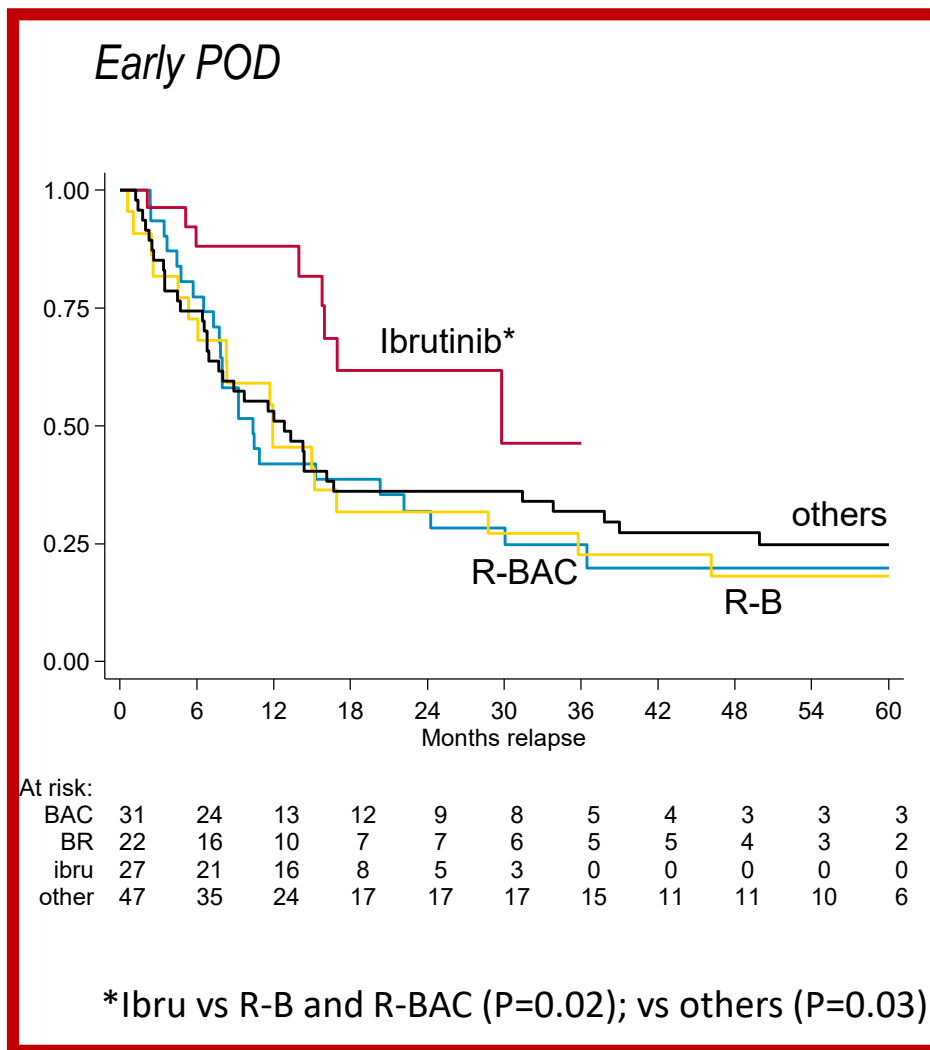


Kapitel 2

Rezidiertes Mantelzell-Lymphom: Targeted Therapie

Ibrutinib in relapsed MCL (POD 24)

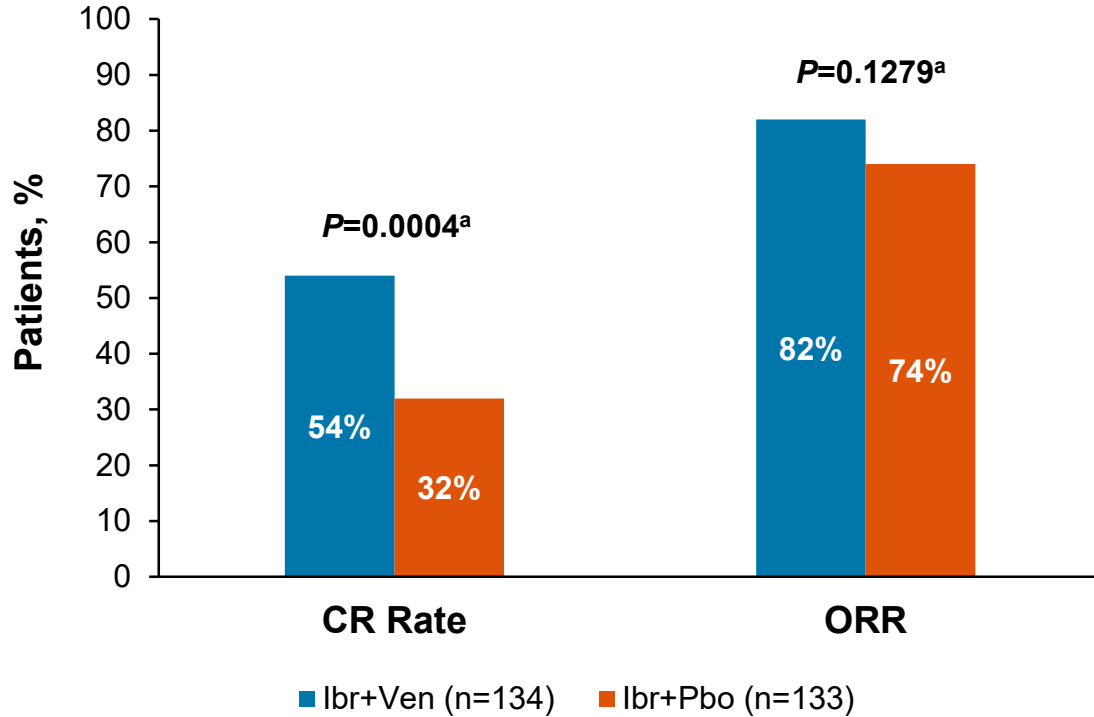
Overall survival



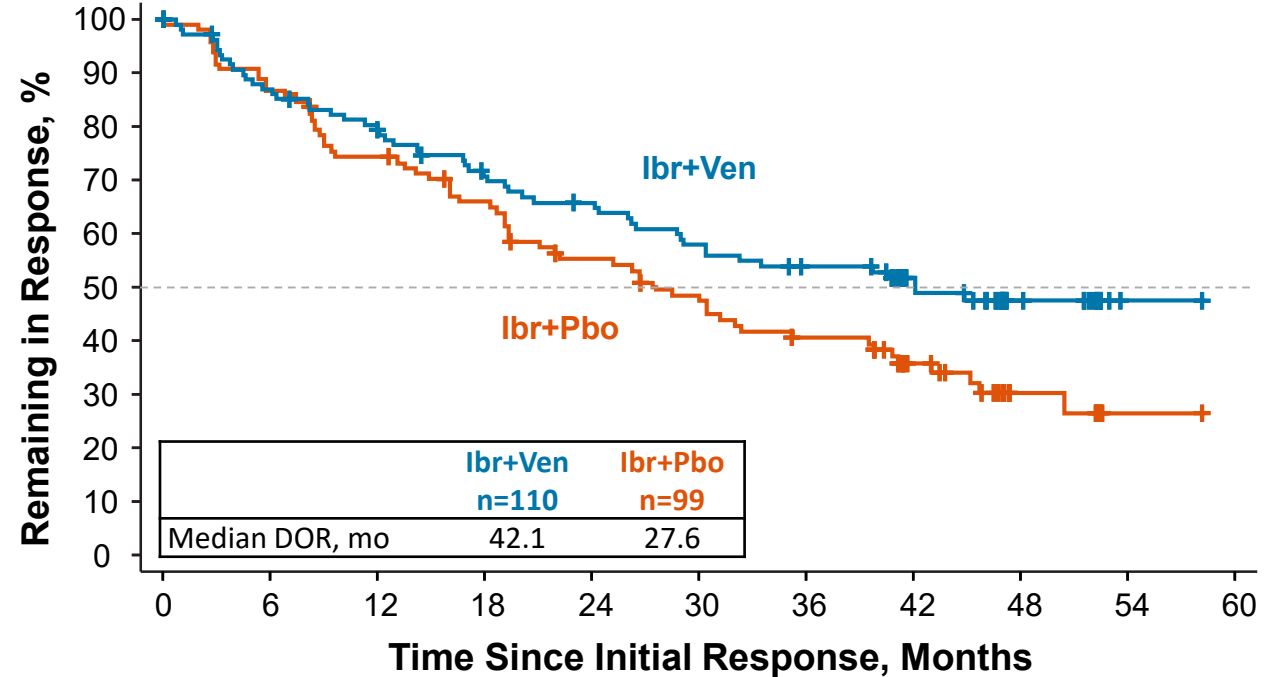


CR Rate Was Significantly Improved With Ibrutinib + Venetoclax

Response Rates



Duration of Response^b



Patients at risk:

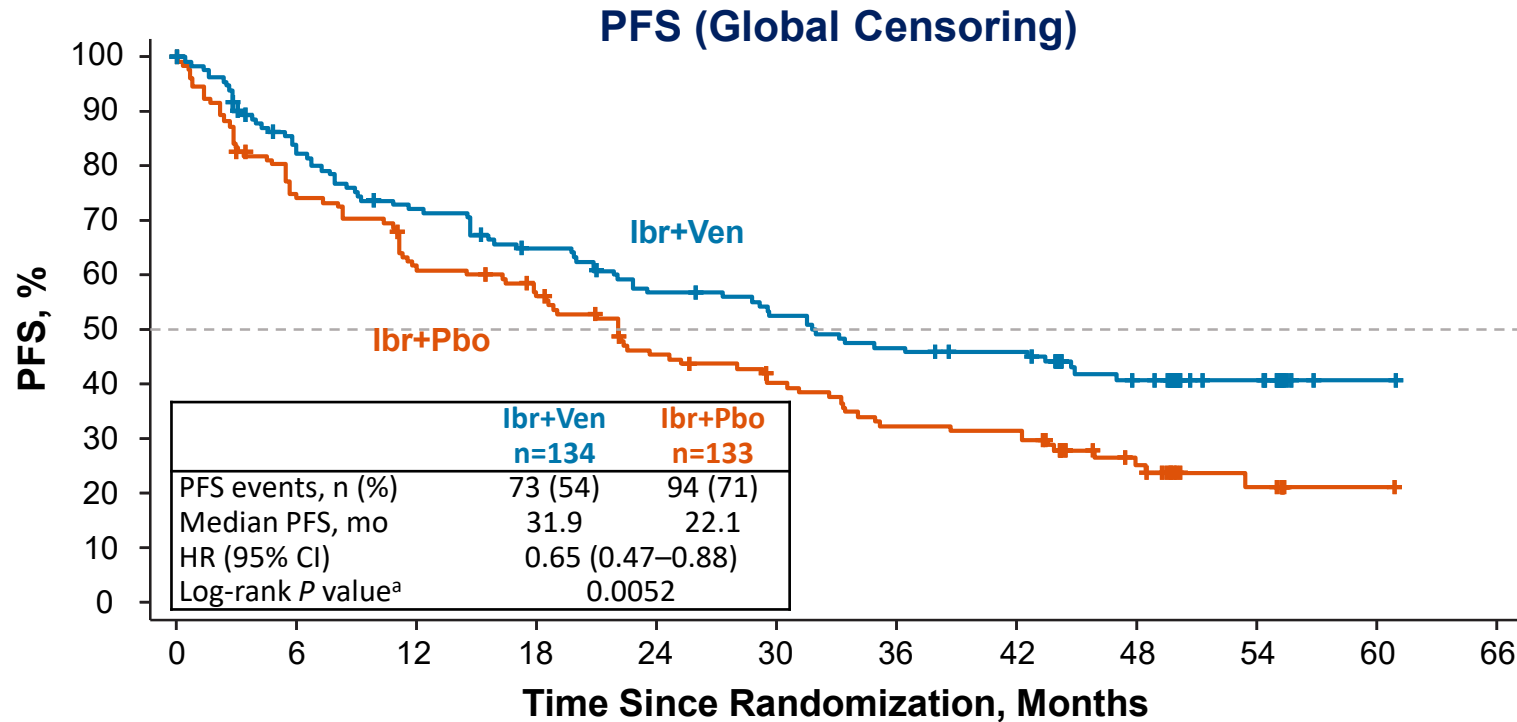
Ibr+Ven	110	93	83	72	66	58	52	37	15	1	0
Ibr+Pbo	99	85	72	62	50	42	35	22	8	1	0

DOR, duration of response.

^aP values were determined by stratified Cochran-Mantel-Haenszel test (stratification factors: prior lines of therapy [1–2 vs ≥3] and TLS risk category [low vs increased risk]). ^bGlobal censoring (censoring at last non-PD assessment for patients without PD or death).



Primary Endpoint: Investigator-Assessed PFS Was Significantly Improved With Ibrutinib + Venetoclax Versus Ibrutinib + Placebo



Patients at risk:

Ibr+Ven	134	107	91	80	69	63	56	53	34	15	1	0
Ibr+Pbo	133	96	79	70	54	46	37	36	18	8	1	0

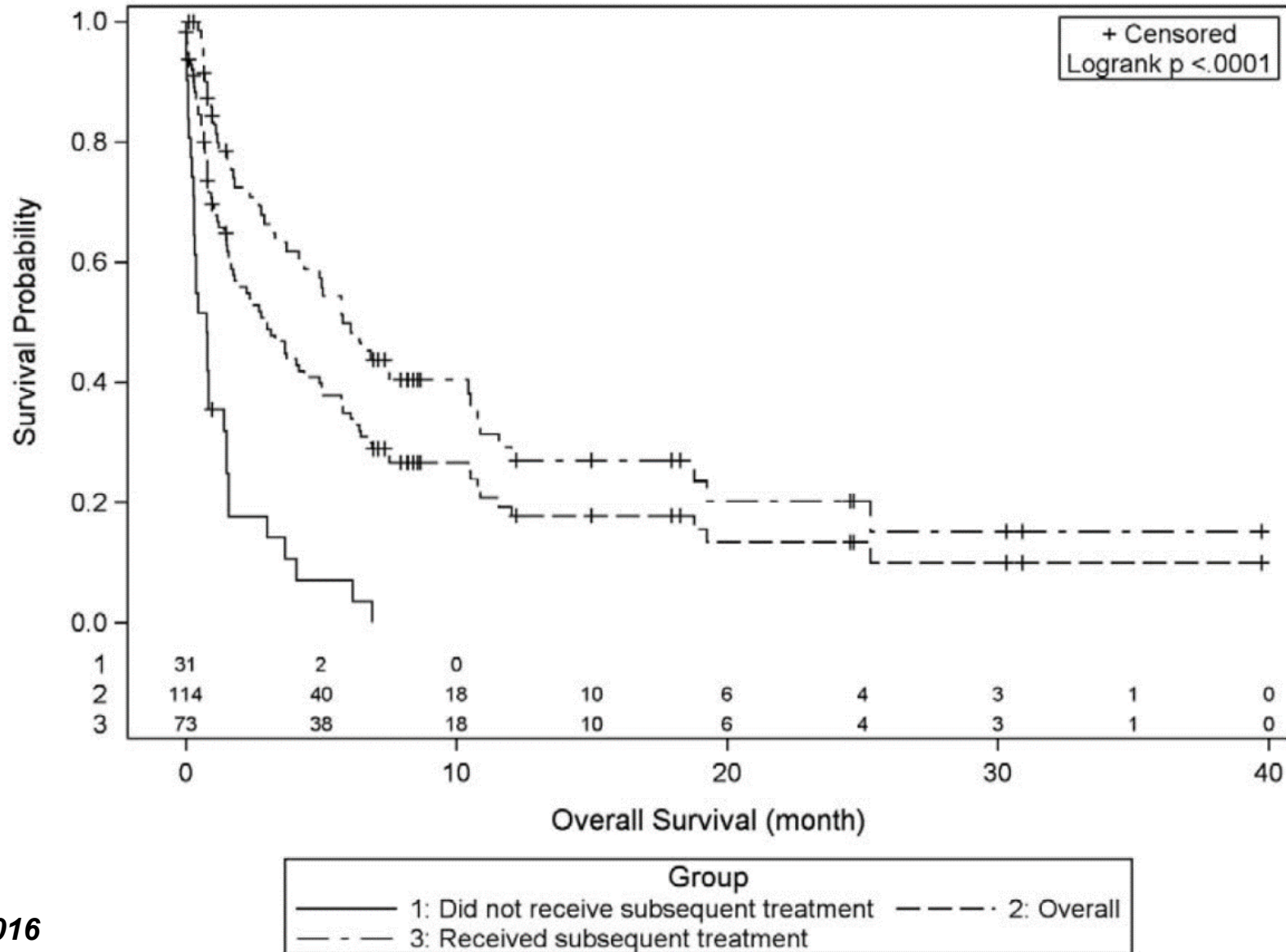
Median PFS, mo	Global Censoring ^b				US FDA Censoring ^c			
	Ibr+Ven n=134	Ibr+Pbo n=133	HR (95% CI)	Log-rank <i>P</i> value ^a	Ibr+Ven n=134	Ibr+Pbo n=133	HR (95% CI)	Log-rank <i>P</i> value ^a
Investigator assessment	31.9	22.1	0.65 (0.47–0.88)	0.0052	42.6	22.1	0.60 (0.44–0.83)	0.0021
IRC assessment	31.8	20.9	0.67 (0.49–0.91)	0.0108	43.5	22.1	0.63 (0.45–0.87)	0.0057

HR, hazard ratio; Ibr, ibrutinib; Pbo, placebo; Ven, venetoclax.

^a*P* values were determined by stratified log-rank test (stratification factors: prior lines of therapy [1–2 vs ≥3] and TLS risk category [low vs increased risk]). ^bCensoring at last non-PD assessment for patients without PD or death. ^cPatients were censored at last non-PD assessment before start of subsequent anticancer therapy or missing ≥2 consecutive visits prior to a PFS event, whichever occurred first.

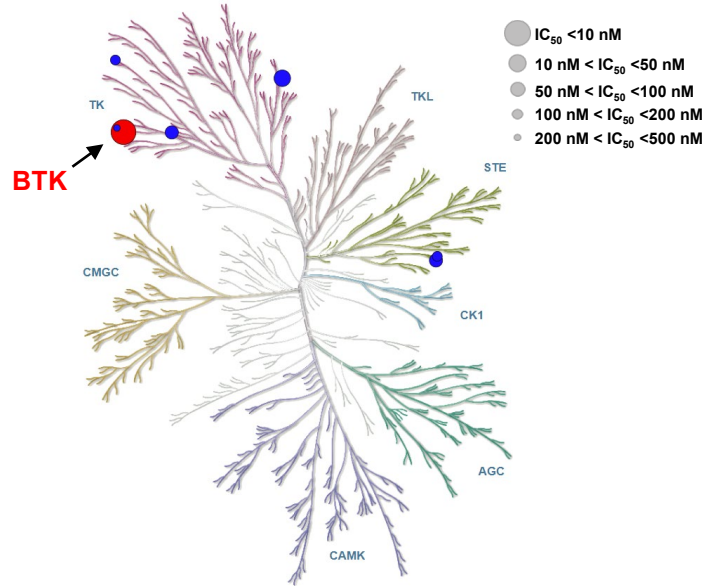
Relapsed mantle cell lymphoma

Failure under ibrutinib

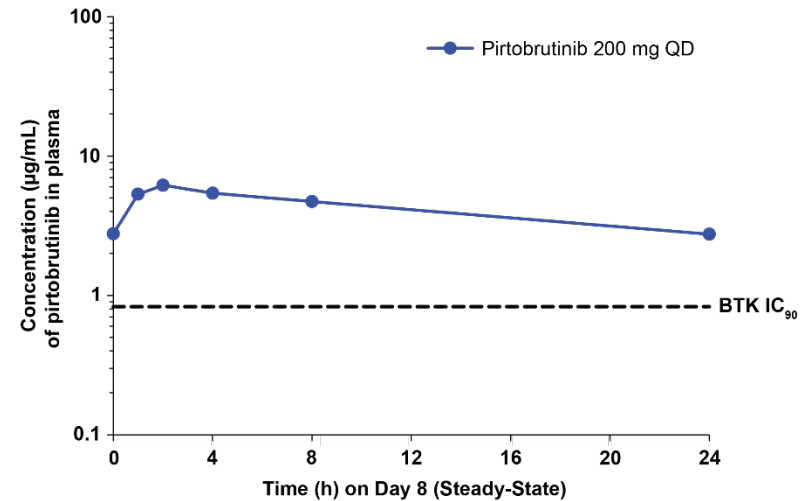


Pirtobrutinib is a Highly Selective, Non-Covalent (Reversible) BTK Inhibitor

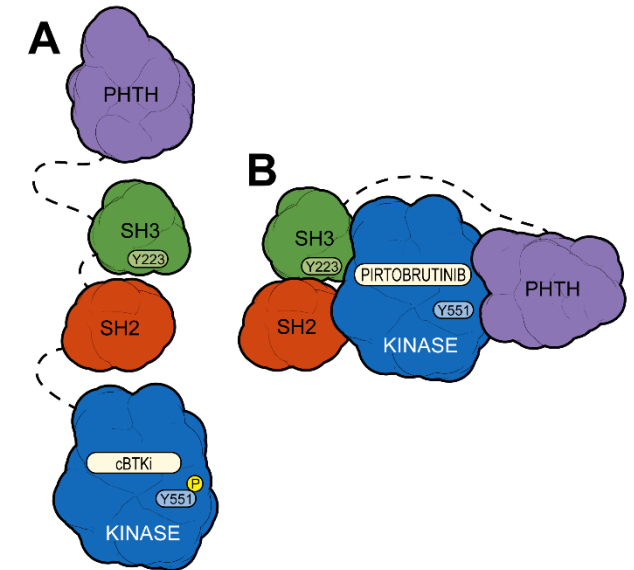
Highly selective for BTK^{3,7}



Plasma exposures exceeded BTK IC₉₀ throughout dosing interval



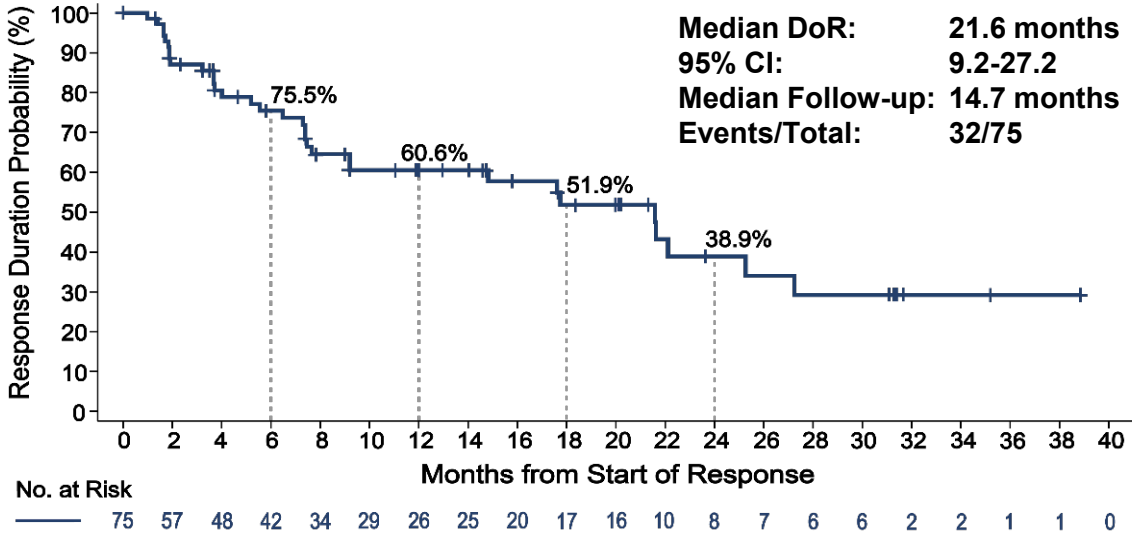
Pirtobrutinib may stabilize/maintain BTK in a closed inactive conformation⁸



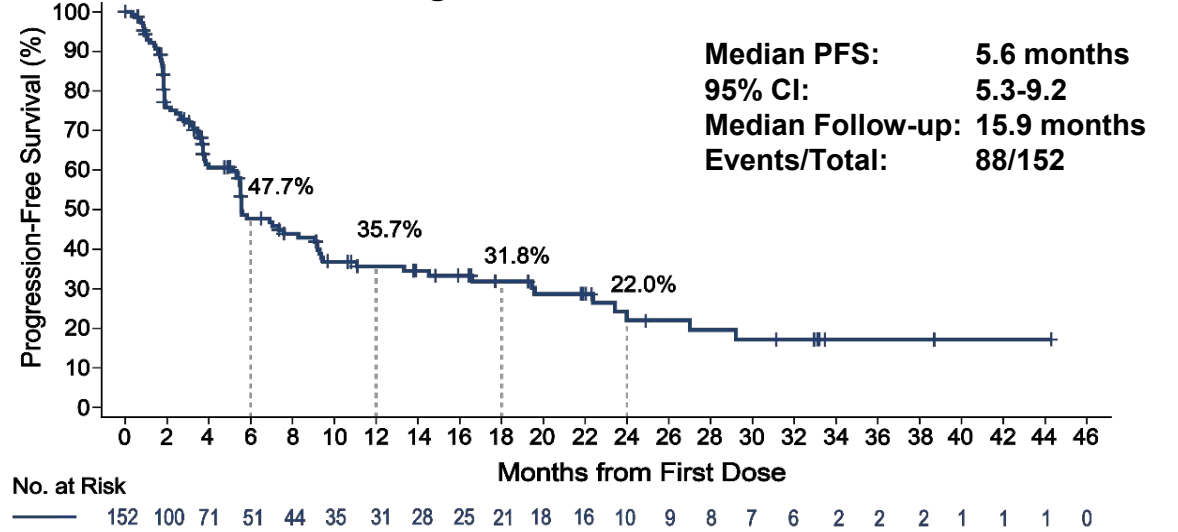
- Inhibits both WT and C481-mutant BTK with equal low nM potency⁸
- Steady state plasma exposure corresponding to 96% BTK target inhibition and a half-life of about 20 hours⁸
- In contrast to cBTKi (A), pirtobrutinib (B) appears to stabilize BTK in a closed, inactive conformation, blocking access to upstream kinases and phosphorylation of Y551, thus inhibiting scaffolding interactions that support kinase-independent BTK signaling⁸

Pirtobrutinib Outcomes in Prior cBTKi Patients with MCL

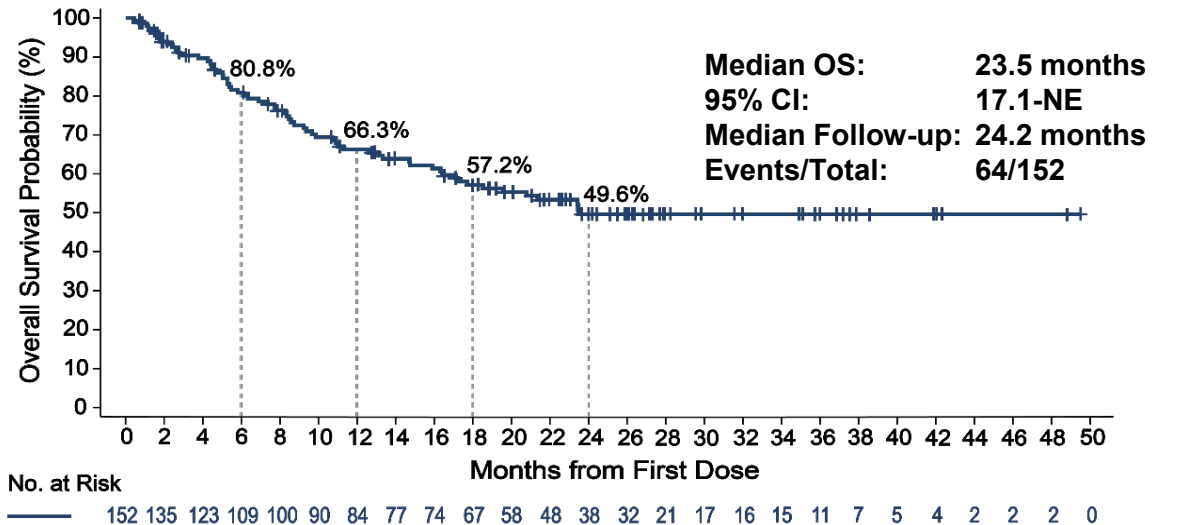
Duration of Response



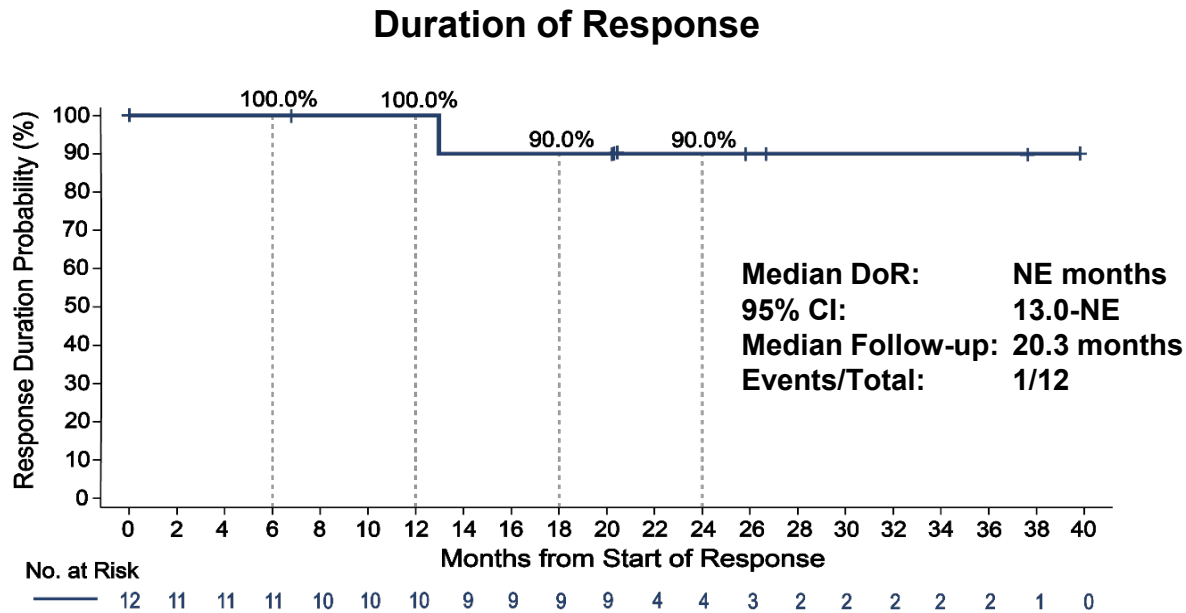
Progression-Free Survival



Overall Survival

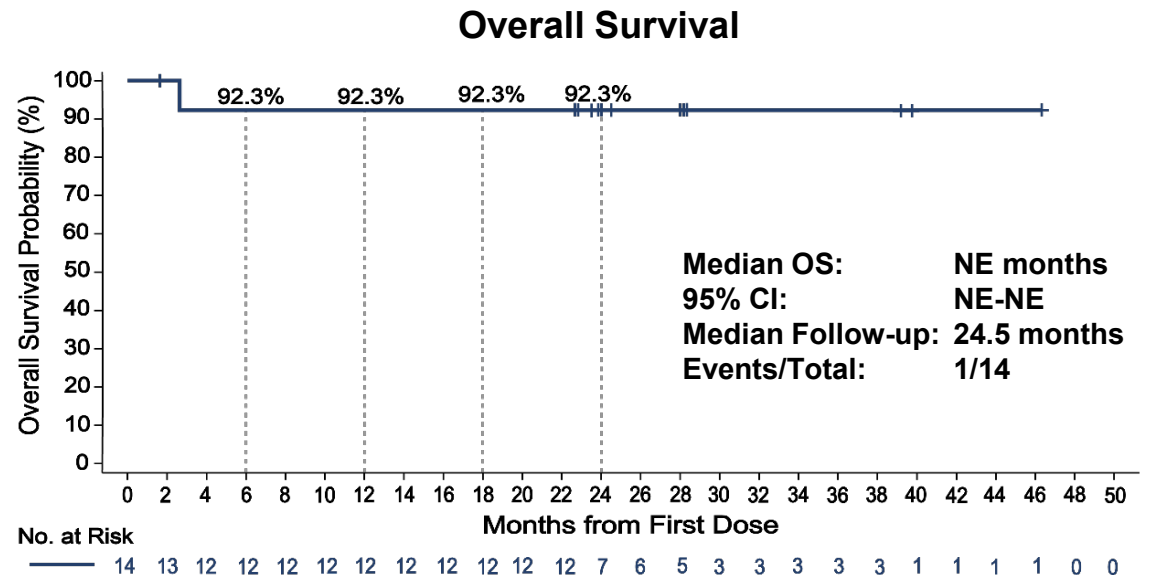
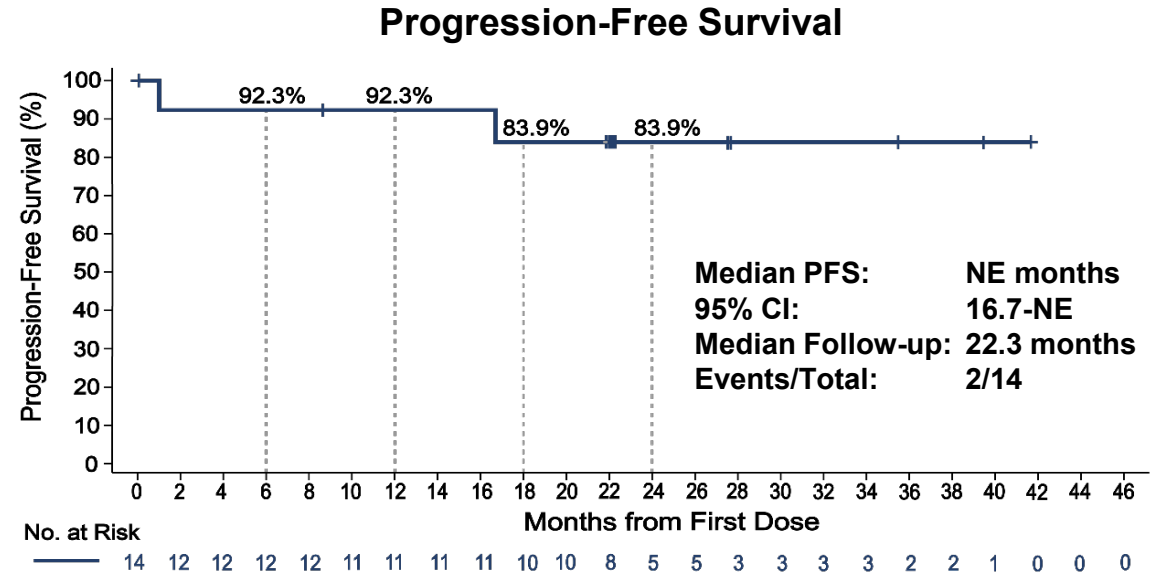


Pirtobrutinib Outcomes in cBTKi Naïve Patients with MCL



cBTKi Naive Cohort:

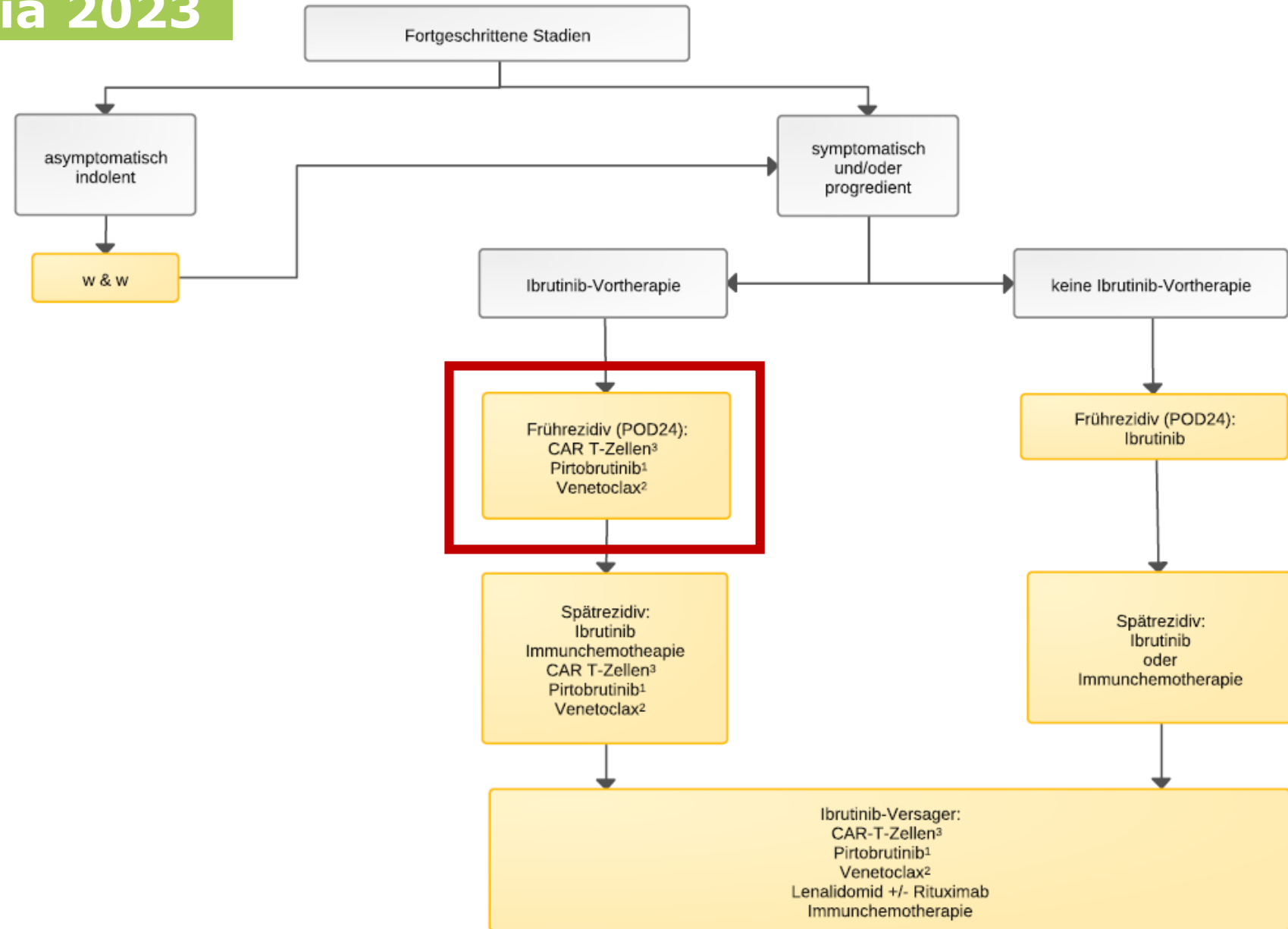
- The ORR^a was 85.7% (95% CI: 57.2-98.2)
 - 6 CR (42.9%) and 6 PR (42.9%)



^a1 cBTKi-naïve patient was not evaluable. Response status per Lugano 2014 criteria based on IRC assessment.

Relapsed Mantle cell Lymphoma

Onkopedia 2023



Studientreffen 2022, Berlin



Die Kurzpräsentationen sind online unter

www.lymphome.de/ash2023

Für den Inhalt verantwortlich:

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Klinikum der Universität München

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