

Lymphom Kompetenz KOMPAKT



ASH 2020 VIRTUAL
5. – 8. Dezember 2020



Indolente Lymphome (iNHL)



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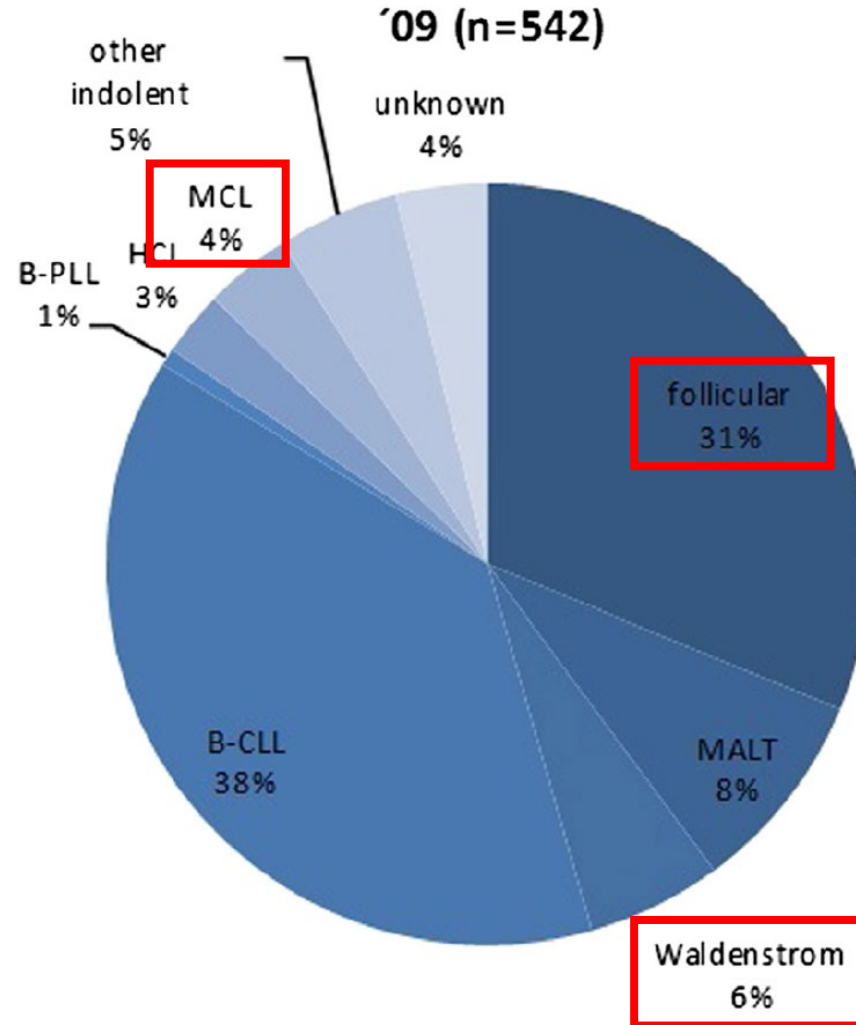
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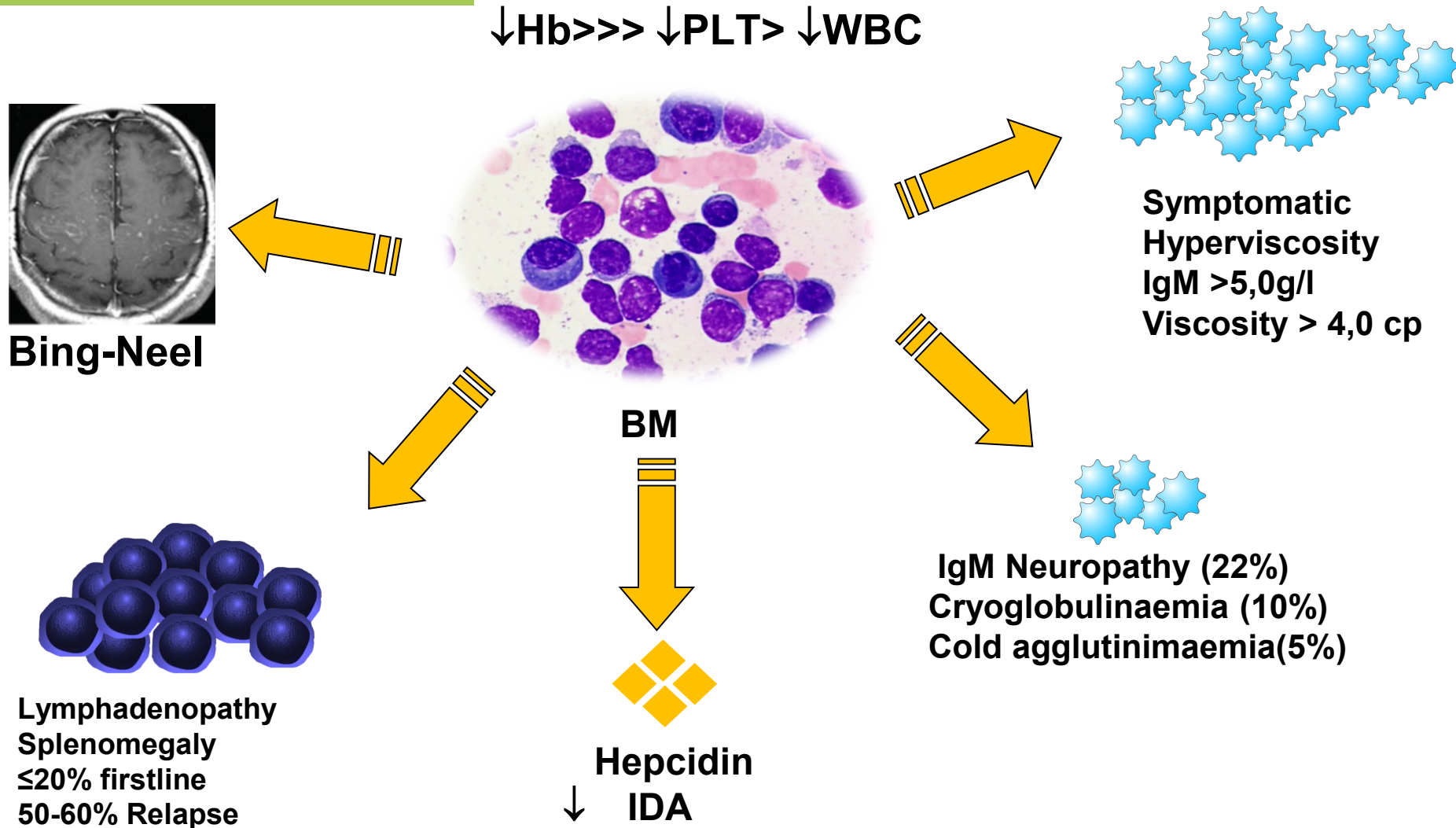
Indolent Lymphoma

Frequency of subtypes

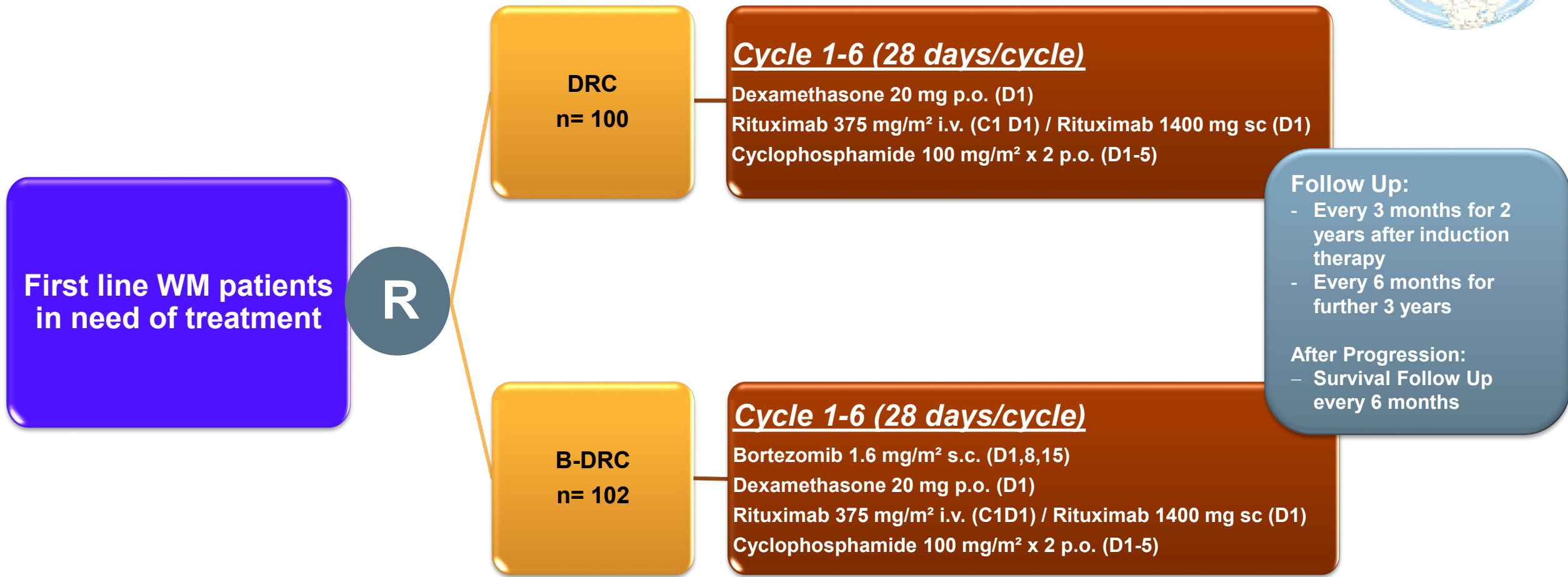


Morbus Waldenstroem

Clinical characteristics



ECWM-1 Study Design



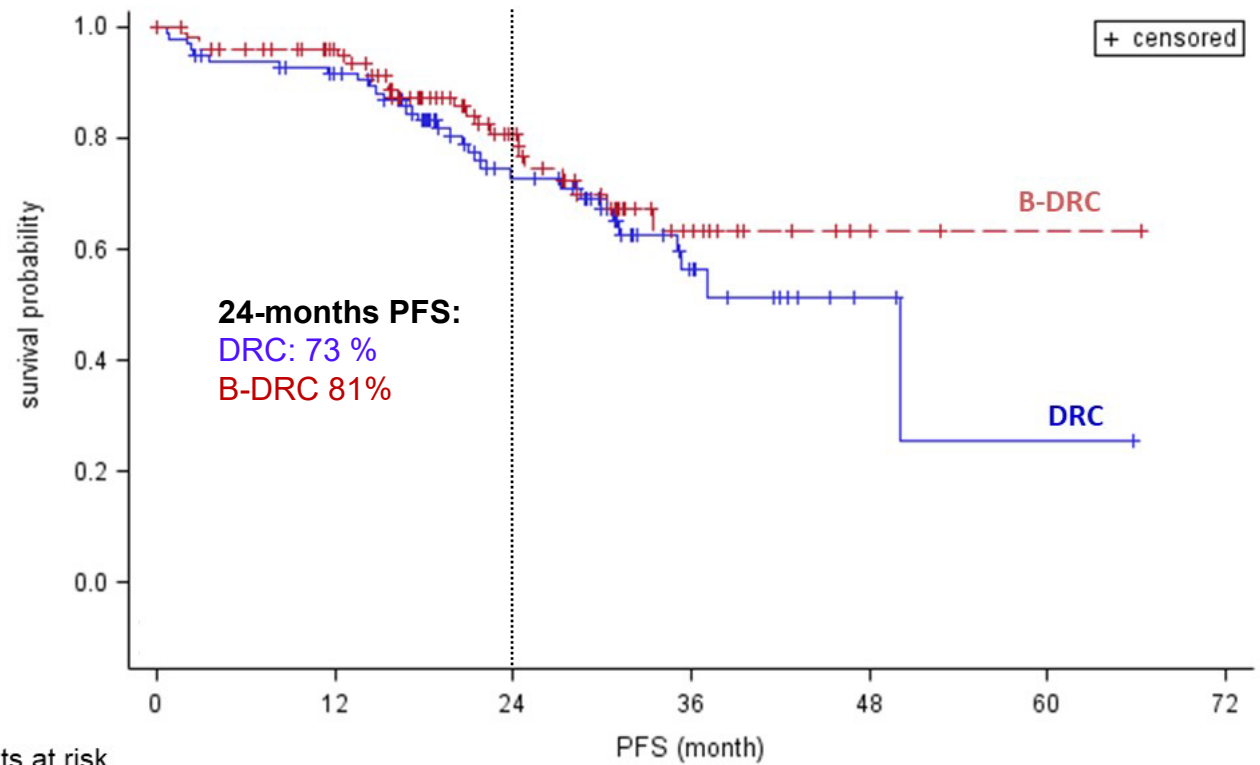
Randomized Phase II

Endpoints: PFS, response rates, OS, safety

Safety Profile

Event Preferred Term n (%)	Total (n=202)	DRC (n=100)	B-DRC (n=102)
<u>Infections (all grades)</u>			
Upper respiratory infection	6 (3.0%)	1 (1%)	5 (4.9%)
Lung infection	1 (0.5%)	-	1 (0.9%)
Bronchial infection	10 (5.0%)	1 (1%)	9 (8.8%)
<u>Infections (≥ 3 grade)</u>			
Upper respiratory infection	1 (0.5%)	-	1 (0.9%)
Lung infection	1 (0.5%)	-	1 (0.9%)
Bronchial infection	1 (0.5%)	-	1 (0.9%)
<u>Peripheral sensory neuropathy</u>			
Grade 1-2	21 (10.4%)	3 (3%)	18 (17.6%)
Grade 3	2 (1%)	-	2 (2.0%)

Progression-Free Survival



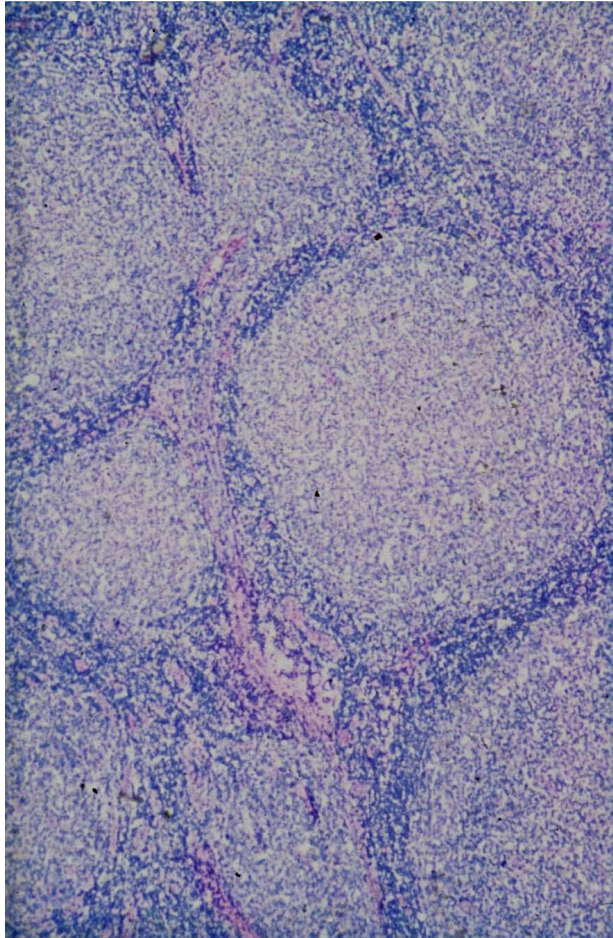
Patients at risk		PFS (month)						
	0	12	24	36	48	60	72	
DRC	100	81	44	17	3	1	0	
B-DRC	102	83	42	14	3	1	0	

Median follow-up was 27.5 months at the time of the data cut.

	DRC	B-DRC
Median PFS, months (95% CI)	50.1 (31.2-n.a.)	n.a. (33.5-n.a.)
HR (95% CI)	0.759 (95% CI: 0.439; 1.311)	
Logrank p-value	P=0.32	

Follicular lymphoma

Clinical characteristics

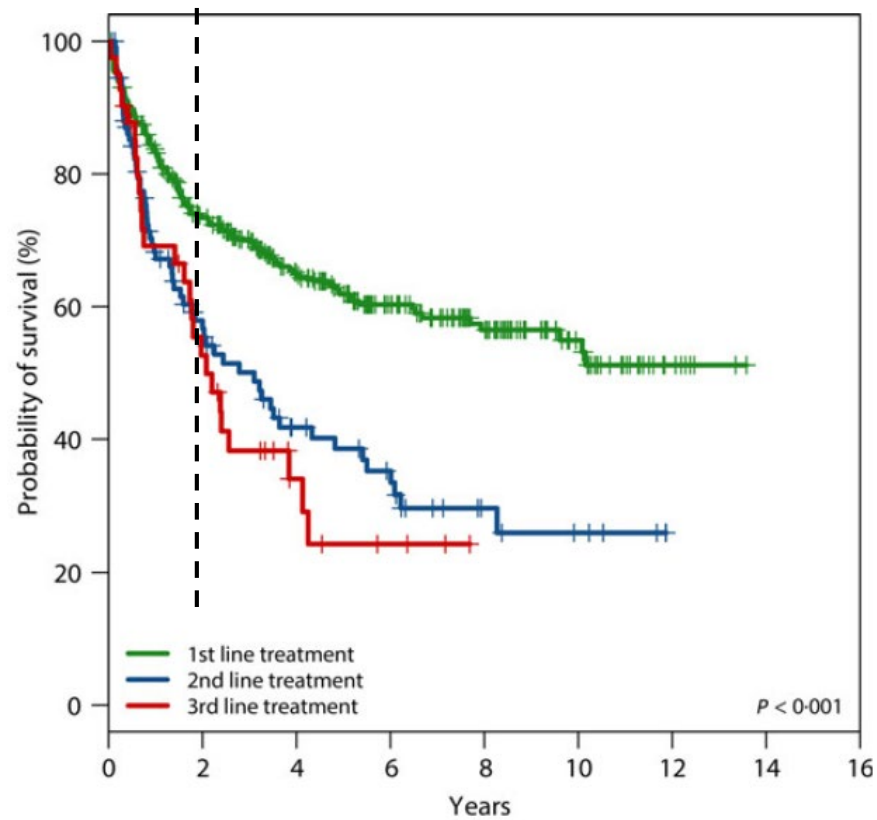


- **about 25% of lymphoma**
- **Median age 60-65 years**
- **85% advanced stage III/IV**
- **Indolent clinical course
(median survival 15-20 years)**
- **In relapse still sensitive to
therapy**

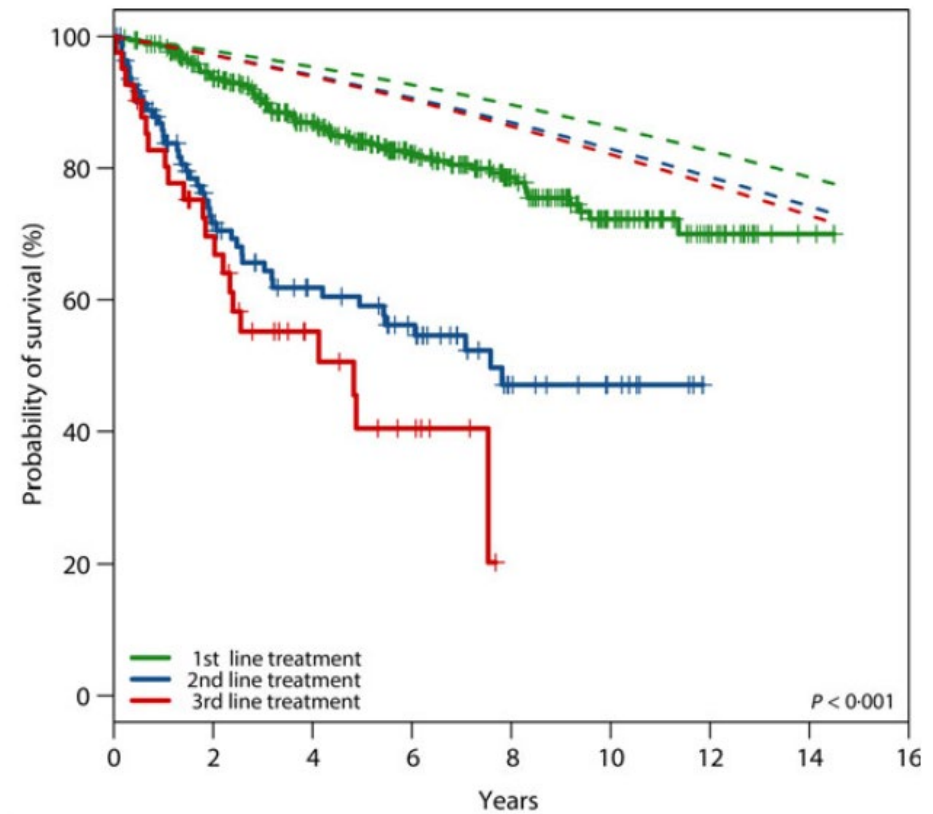
Follicular lymphoma

Clinical course

Response duration



Overall survival



Follicular lymphoma

Immunotherapy



- **Car T-lymphocytes**
(Chimeric antigen-receptor)
- **bispecific antibodies**
- **checkpoint inhibitors**

Cytokine Release Syndrome

Parameter	FL (n = 124)	MZL (n = 22)	All Patients (N = 146)
CRS, n (%) ^a			
Any grade	97 (78)	22 (100)	119 (82)
Grade ≥ 3	8 (6)	2 (9)	10 (7)
Most common symptoms of any grade, n/n (%)			
Pyrexia	94/97 (97)	20/22 (91)	114/119 (96)
Hypotension	39/97 (40)	10/22 (45)	49/119 (41)
AE management, n (%)			
Tocilizumab	56 (45)	15 (68)	71 (49)
Corticosteroids	19 (15)	6 (27)	25 (17)
Median time to onset (range), days	4 (1 – 15)	4 (1 – 9)	4 (1 – 15)
Median duration of events (range), days	6 (1 – 27)	6 (2 – 14)	6 (1 – 27)
Patients with resolved events, n/n (%)	96/97 (99) ^b	22/22 (100)	118/119 (99) ^b

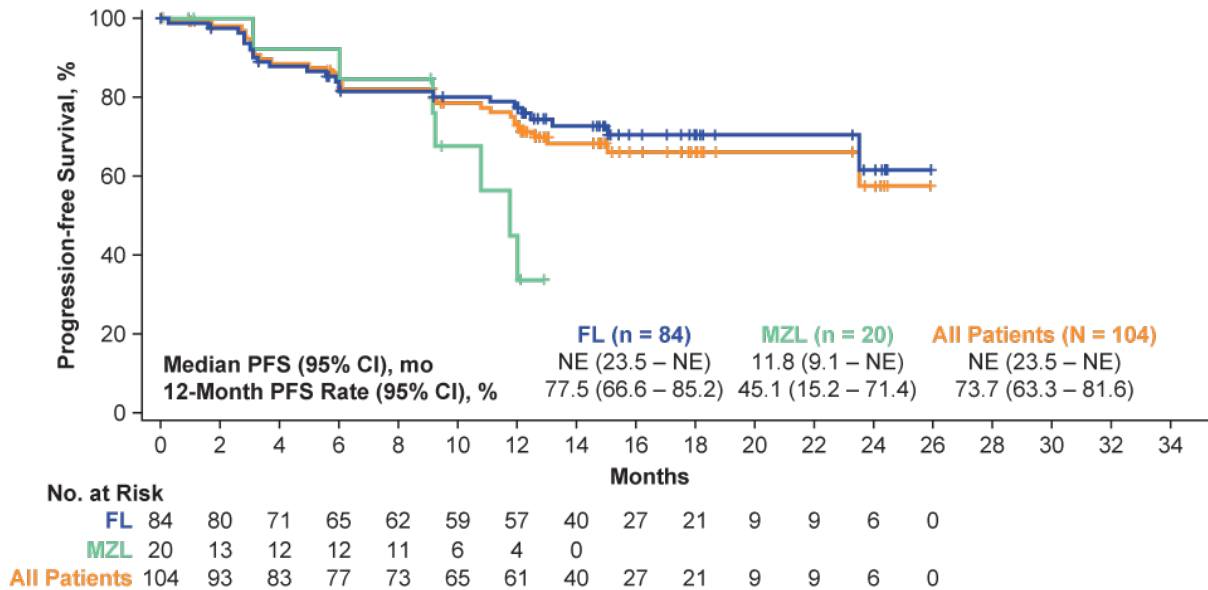
- Grade 4 and Grade 5 CRS occurred in 1 patient each
- No patients had ongoing CRS as of the cutoff date^b

Placeholder for
video recording

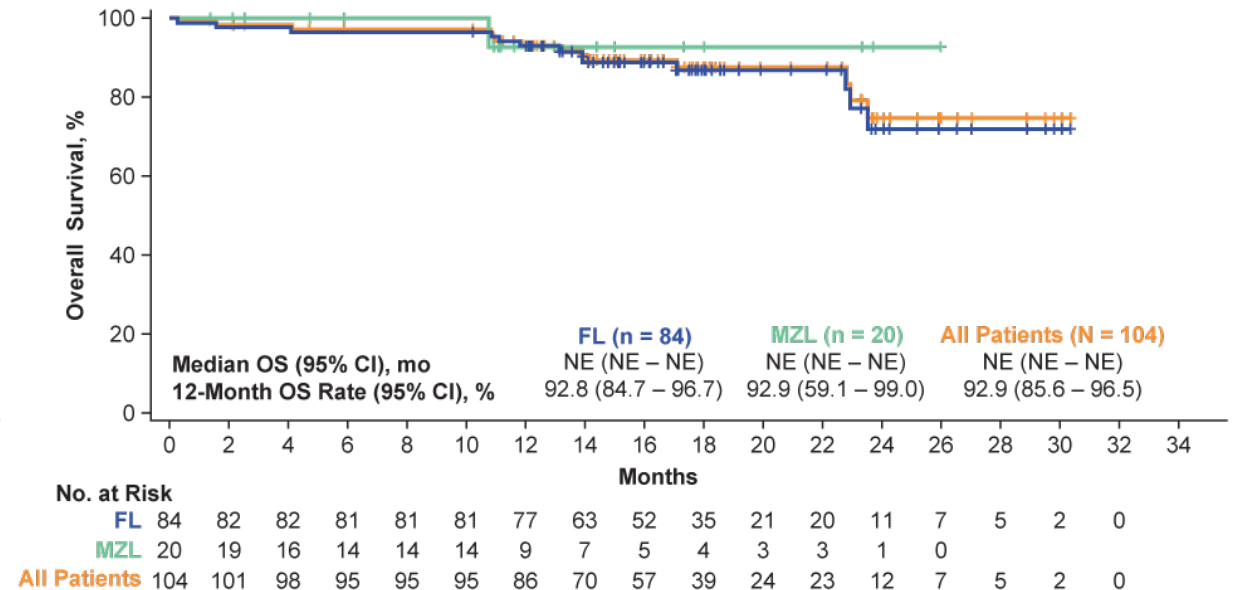
^a CRS was graded per Lee DW, et al. *Blood*. 2014;124:188-195. Individual symptoms of CRS were graded per National Cancer Institute's Common Terminology Criteria for Adverse Events version 4.03. ^b One patient with FL died of multisystem organ failure in the context of CRS (Day 7) prior to the resolution of CRS. AE, adverse event; CRS, cytokine release syndrome; FL, follicular lymphoma; MZL, marginal zone lymphoma.

Progression-Free Survival and Overall Survival

Progression-Free Survival



Overall Survival

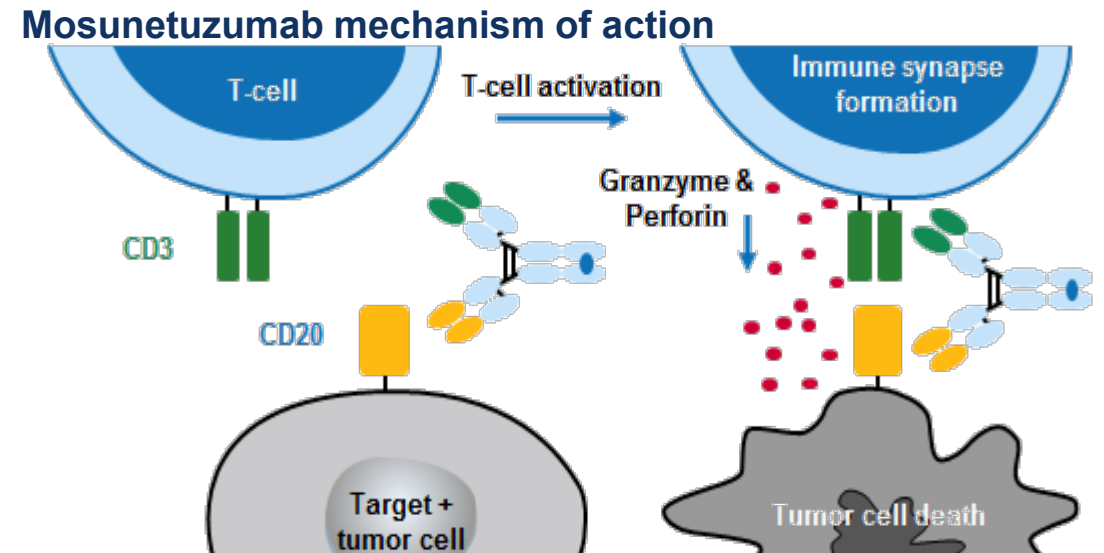


- With a median follow-up of 17.5 months, median PFS and median OS were not reached
 - The 12-month PFS rate was 73.7% (95% CI, 63.3 – 81.6) for all patients
 - The 12-month OS rate was 92.9% (95% CI, 85.6 – 96.5) for all patients

Placeholder for video recording

Introduction

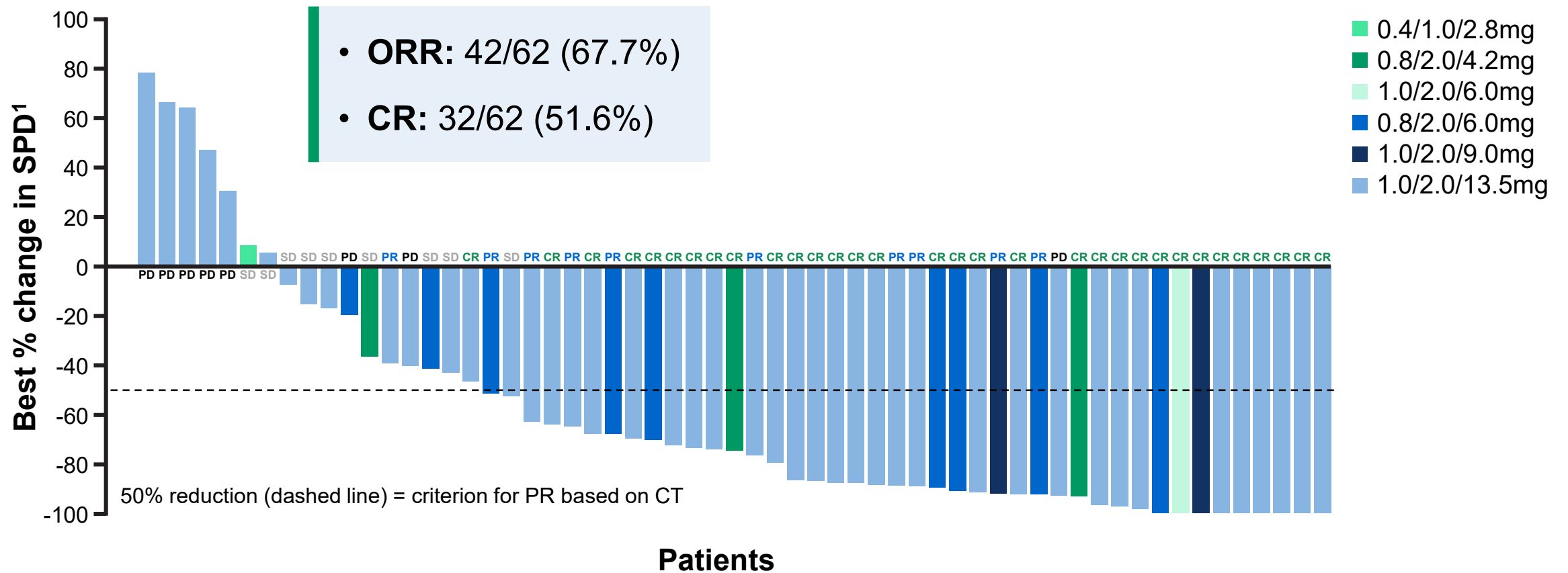
- Follicular lymphoma (FL) remains an incurable disease despite available therapies
- Patients with FL having received ≥ 2 prior systemic therapies typically have a poor prognosis¹
- High-risk subgroups include patients who:
 - Have progression of disease within 24 months of frontline treatment (POD24)²
 - Are refractory to both a prior anti-CD20 antibody and an alkylating agent (double refractory)
- Mosunetuzumab is a full-length, fully humanized immunoglobulin G1 CD20xCD3 bispecific antibody that redirects T cells to engage and eliminate malignant B cells



Here, we present updated clinical data from 62 patients with relapsed/refractory (R/R) FL treated with mosunetuzumab after ≥ 2 prior systemic therapies

(NCT02500407; Clinical cut-off date: August 07, 2020)

Mosunetuzumab antitumor activity in patients with R/R FL across dose levels



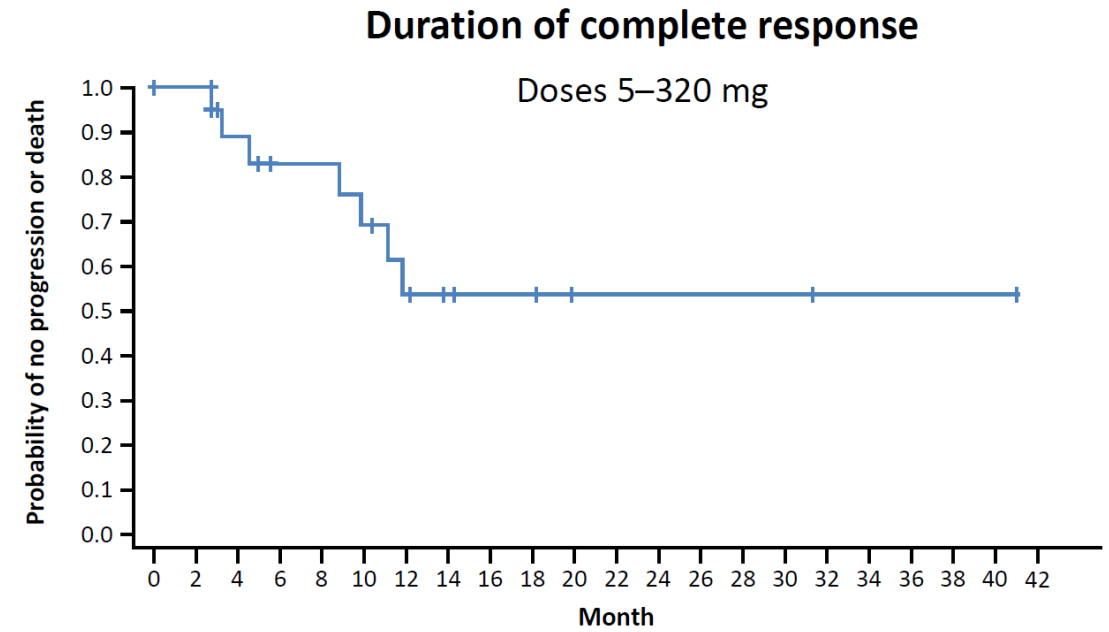
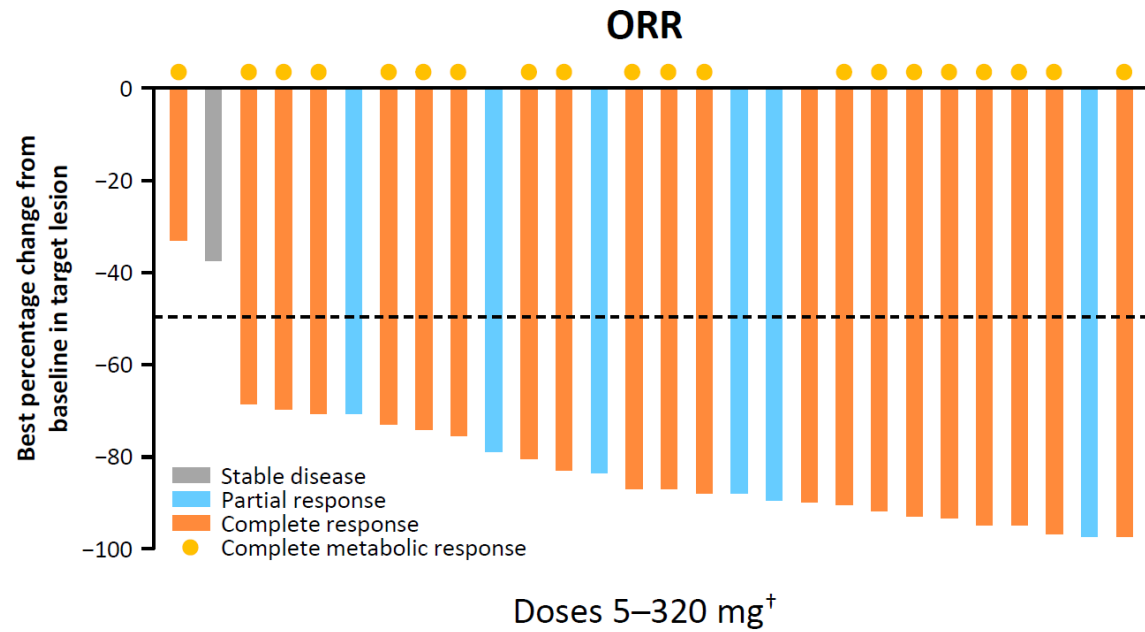
Follicular lymphoma

Bispecific antibodies: Toxicity

TEAE of special interest, n (%)		DLBCL (N=78)		FL Gr 1–3a (N=38)		Other B-NHL (N=20)		Total (N=136)	
		Initial/ int. dose	Full dose	Initial/ int. dose	Full dose	Initial/ int. dose	Full dose	Initial/ int. dose	Full dose
CRS	Gr 3	4 (5.1)	0 (0)	0 (0)	1 (2.6)	4 (20.0)	0 (0)	8 (5.9)	1 (0.7)
	Gr 4	0 (0)	0 (0)	0 (0)	0 (0)	1 (5.0)	0 (0)	1 (0.7)	0 (0)
ICANS-like	Gr 3	2 (2.6)	1 (1.3)	0 (0)	0 (0)	1 (5.0)	1 (5.0)	3 (2.2)	2 (1.5)
	Gr 4	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
TLS	Gr 3	0 (0)	0 (0)	0 (0)	0 (0)	1 (5.0)	0 (0)	1 (0.7)	0 (0)
	Gr 4	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	Gr 5	0 (0)	0 (0)	0 (0)	0 (0)	1 (5.0)	0 (0)	1 (0.7)	0 (0)

Follicular lymphoma

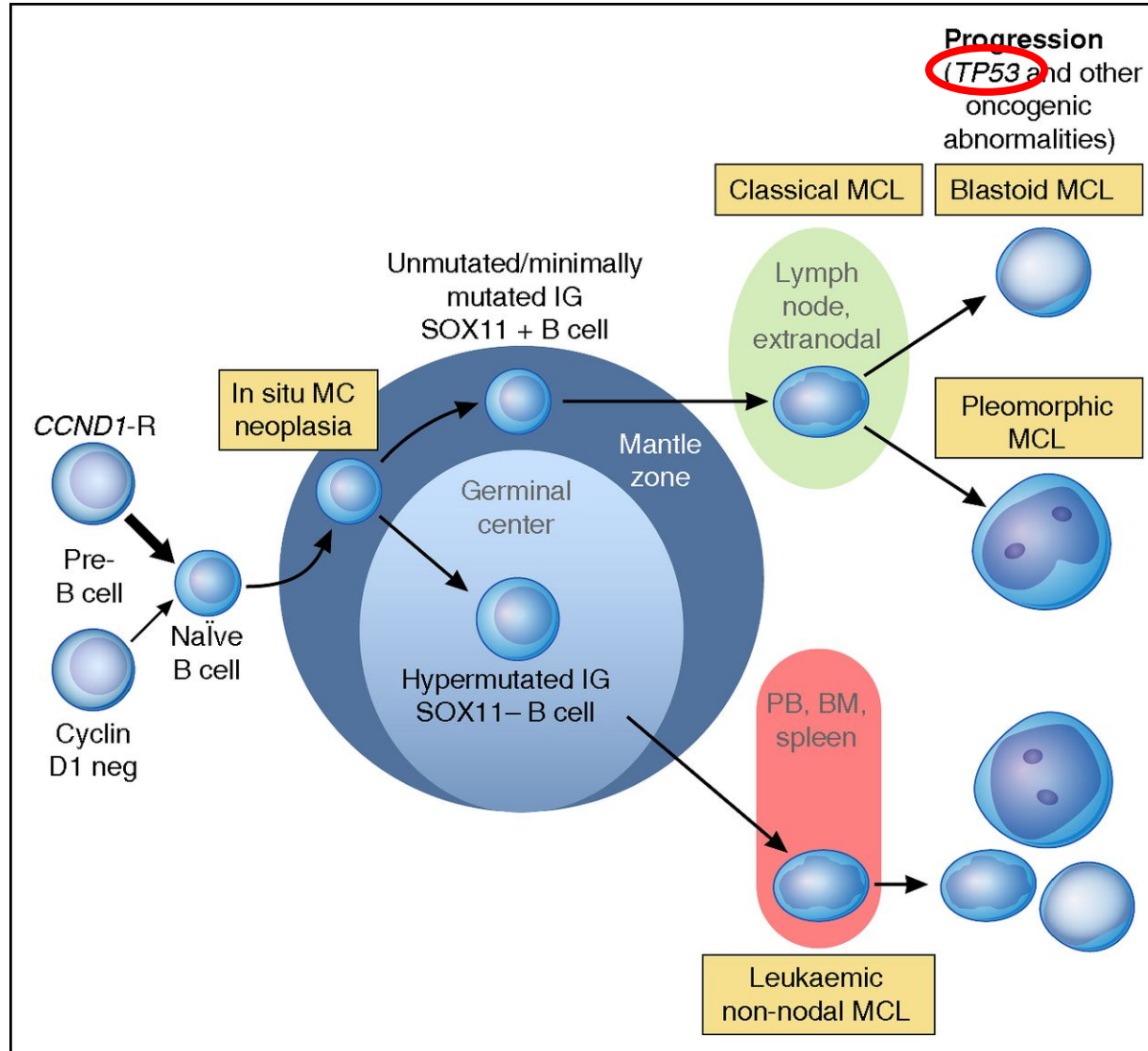
Bispecific antibodies: Efficacy



Number at risk, n 21 20 15 12 12 10 7 5 4 4 2 2 2 2 2 2 1 1 1 1 1 0

Mantle cell lymphoma

Spectrum of disease



Mantle cell lymphoma

Therapeutic algorithm

young patient (≤ 65)

elderly patient (>65)
First line treatment

compromised patient

<p>dose-intensified immuno-chemotherapy (R-CHOP, high dose Ara-C) ⇒ Autologous SCT ⇒ Rituximab maintenance</p>	<p>conventional immuno-chemotherapy (VR-CAP, R-CHOP, BR, R-BAC) ↓ Rituximab maintenance</p>	<p>Best supportive care? R-Chlorambucil BR (dose-reduced) R-CVP</p>
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1. relapse

<p>immuno-chemotherapy (R-BAC, BR) or targeted approaches ↓ discuss: - allogeneic SCT</p>	<p>immuno-chemotherapy (BR, R-BAC) or targeted approaches ↓ discuss: - Rituximab maintenance - radioimmunotherapy</p>	<p>Immuno-chemotherapy (BR) or targeted approaches</p>
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higher relapse

Targeted approaches: Ibrutinib, Lenalidomide, Temsirolimus, Bortezomib (preferable in combination)
Alternatively: repeat previous therapy (long remissions)

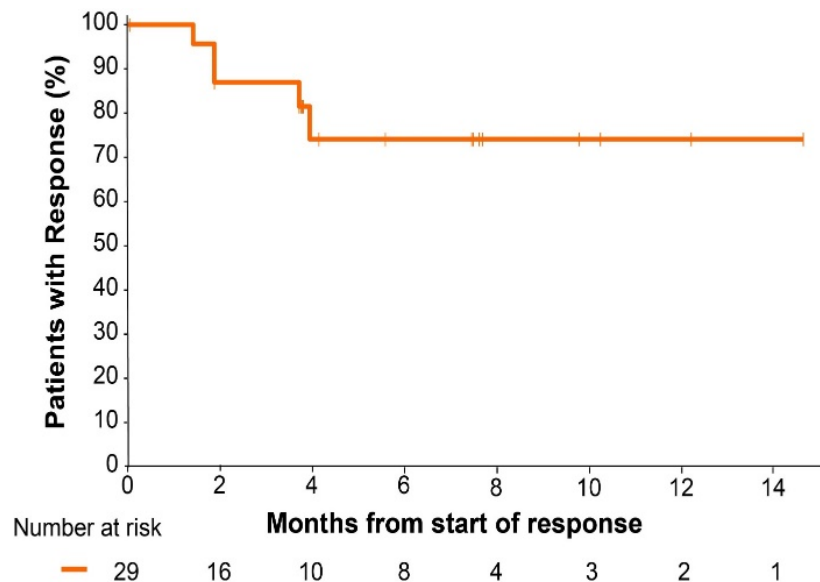
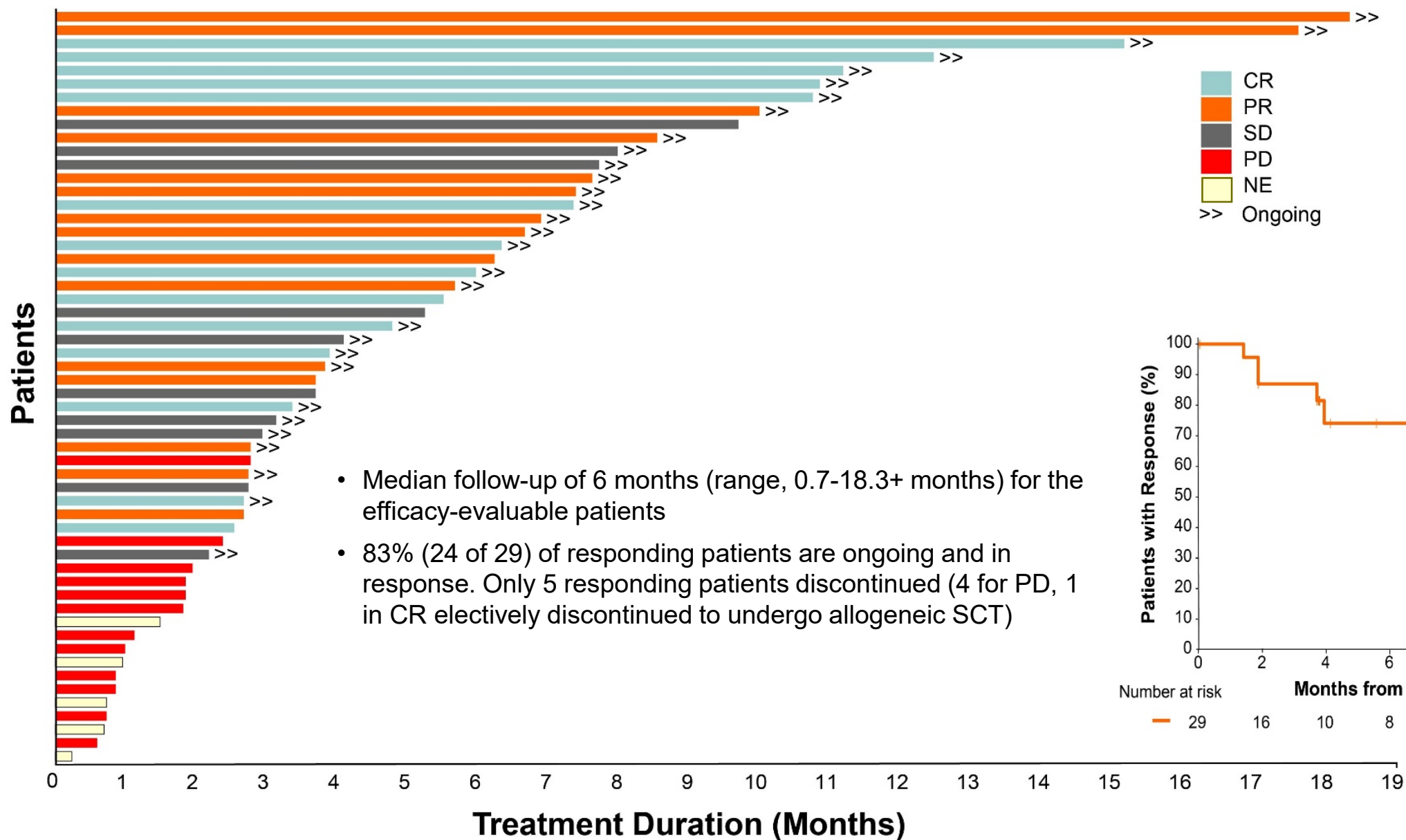
LOXO-305 Safety Profile

All doses and patients (n=323)							
Adverse Event	Treatment-emergent AEs, (≥10%), n (%) ^a					Treatment-related AEs, n (%)	
	Grade 1	Grade 2	Grade 3	Grade 4	Any Grade	Grades 3/4	Any Grade
Fatigue	40 (12%)	22 (7%)	3 (1%)	-	65 (20%)	2 (<1%)	27 (8%)
Diarrhea	45 (14%)	10 (3%)	-	-	55 (17%)	-	28 (9%)
Contusion	37 (12%)	5 (2%)	-	-	42 (13%)	-	29 (9%)
AEs of special interest^{b,c}							
Bruising	48 (15%)	5 (2%)	-	-	53 (16%)	-	37 (12%)
Rash	30 (9%)	5 (2%)	-	-	35 (11%)	-	18 (6%)
Arthralgia	13 (4%)	3 (1%)	-	-	16 (5%)	-	5 (2%)
Hemorrhage	10 (3%)	4 (1%)	1 (<1%) ^d	-	15 (5%)	-	5 (2%)
Hypertension	2 (<1%)	9 (3%)	4 (1%)	-	15 (5%)	-	4 (1%)
Atrial fibrillation/flutter	-	2 (<1%) ^e	-	-	2 (<1%)	-	-

No DLTs reported and MTD not reached
5 of 323 patients (1.5%) discontinued due to treatment-related AEs
200mg QD selected as recommended Phase 2 dose

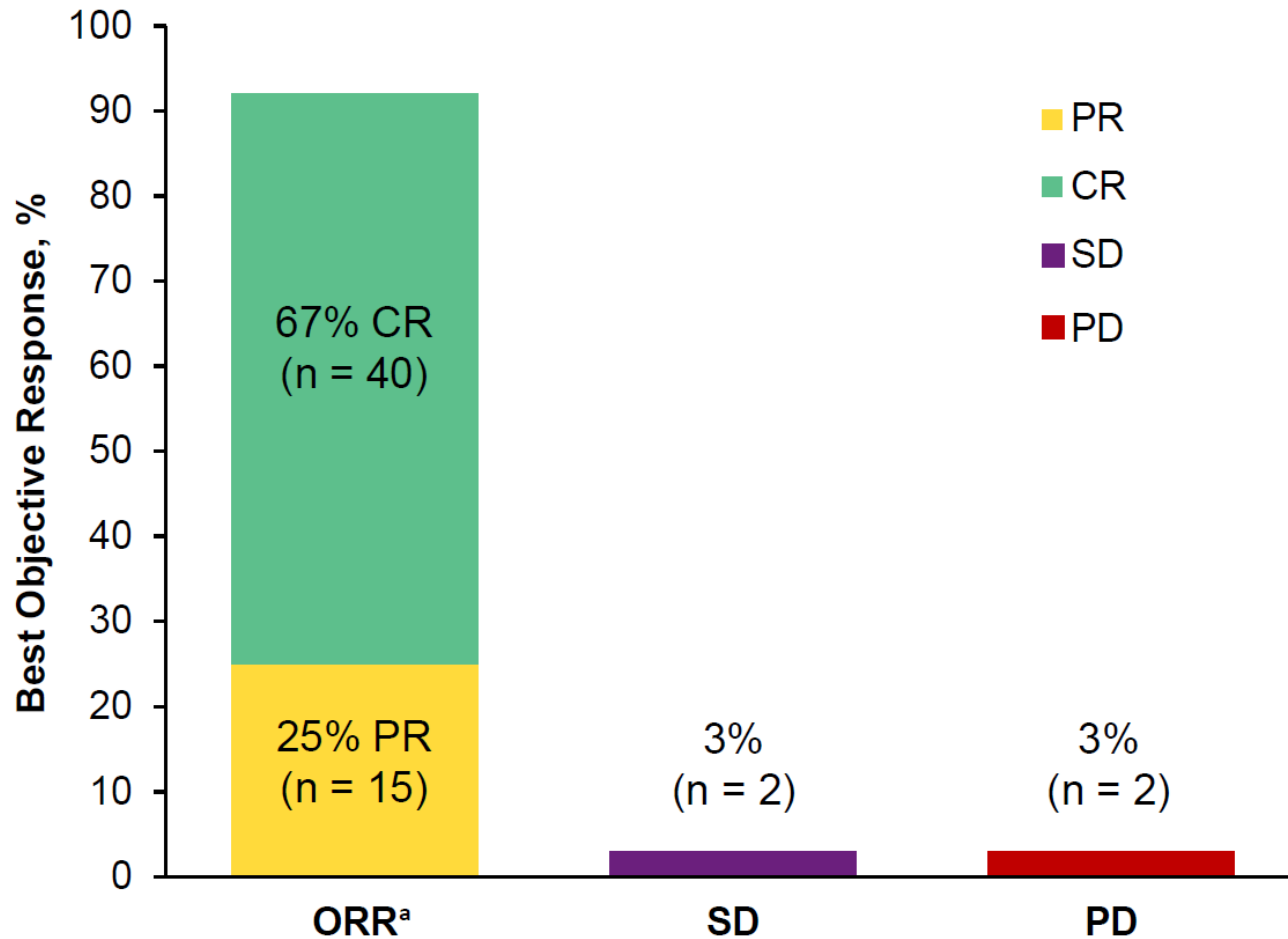
Data cutoff date of 27 September 2020. Total % may be different than the sum of the individual components due to rounding. ^aThe AEs listed are the most common that occurred at any grade in at least 10% of the patients, regardless of attribution. ^bAEs of special interest are those that were previously associated with covalent BTK inhibitors. ^cBruising includes contusion, petechia, ecchymosis and increased tendency to bruise. Hemorrhage includes hematoma, epistaxis, rectal hemorrhage, subarachnoid hemorrhage, upper gastrointestinal hemorrhage, vitreous hemorrhage and wound hemorrhage. Rash includes rash maculo-papular, rash, rash macular, rash erythematous, rash popular, rash pruritic and rash pustular. ^dSubarachnoid bleed sustained during a bicycle accident, considered by investigator as unrelated to LOXO-305. ^eBoth events considered by investigators as unrelated to LOXO-305 due to a history of prior atrial fibrillation in each.

LOXO-305 Treatment Duration in Mantle Cell Lymphoma



CAR T-Zellen im MCL

Ansprechraten



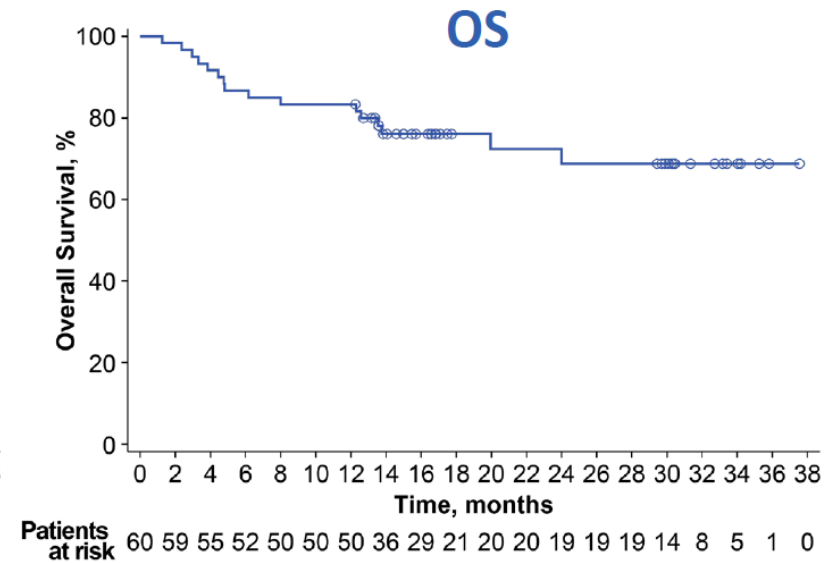
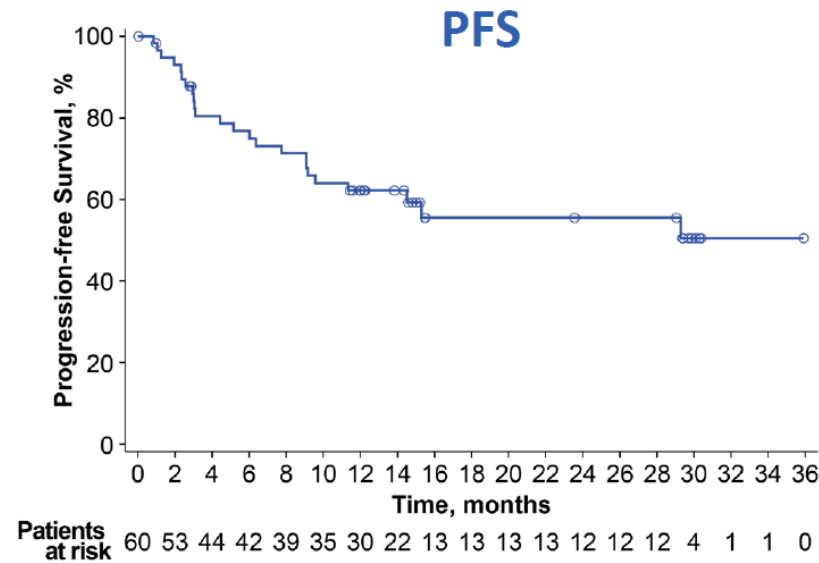
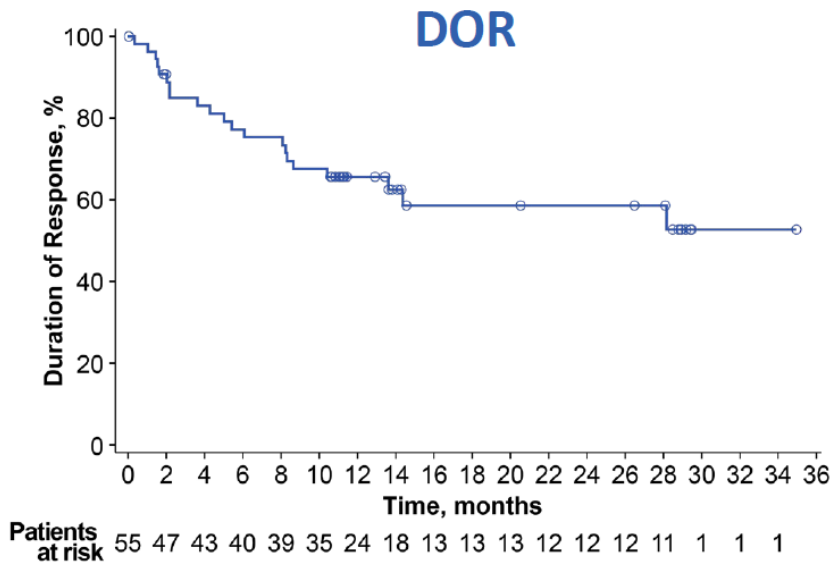
Wang, ASH 2020

- At a median follow-up of 17.5 months (range, 12.3 – 37.6), 29 of 60 evaluable patients (48%) remain in ongoing responses
 - 28 of 40 patients who achieved CR (70%) remain in response
- The first 28 patients treated had a median follow-up of 32.3 months (range, 30.6 – 37.6)
 - 39% of patients remain in continued remission with no further therapy
- In all enrolled patients (N = 74), ORR was 84% (59% CR rate)

CAR T-Zellen im MCL

Überlebensraten

- The medians for DOR, PFS, and OS were not reached after a median follow-up of 17.5 months



European MCL Network

Study generation 2020/21

< 65 years

MCL younger:
R-CHOP/DHAP =>ASCT
R-CHOP+I/DHAP =>ASCT => I
R-CHOP+I/DHAP => I

> 60 years

MCL elderly R2:
R-CHOP vs R-CHOP/Ara-C
=> Rituximab M
+/- Lenalidomide

> 65 years

BR +/- Ibrutinib
=> Rituximab M
+/- Ibrutinib

MCL elderly 3:
BR (+ Ibrutinib)
vs
R-Ibrutinib/Venetoclax

Relapse

Ibrutinib/
Bortezomib

R-HAD +/- Bortezomib

Ibrutinib +/-
ABT-199

▪ **Waldenstroem:**

- R-Chemo weiterhin Standard in der Firstline,
(Ibrutinib-(R) im Frührezidiv)

▪ **Folikuläres Lymphom:**

- in Hochrisikopatienten: bispezifische AK, CAR T-Zellen

▪ **Mantelzell-Lymphom:**

- LOXO-305 : hohe Wirksamkeit in BTK-Versagern
- CAR T-Zellen: Zulassung 2021 in BTK-Versagern ?

European MCL Network Acknowledgements



Die Kurzpräsentationen sind online unter

www.lymphome.de/ash2020

Für den Inhalt verantwortlich:

Prof. Dr. med. Martin Dreyling

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