


Kompetenznetz
Maligne Lymphome

Lymphom Kompetenz KOMPAKT



KML KONGRESSE

Expert:innen berichten zu
Lymphomen & Leukämien



EHA2024 HYBRID



Prof. Dr. med. Kai Hübel
Innere Medizin I | Uniklinik Köln

Folikuläres Lymphom (FL)

Offenlegung potentieller Interessenskonflikte

LymphomKompetenz KOMPAKT – EHA2024 HYBRID wird in Kooperation mit sieben unterstützenden Firmen durchgeführt.
Meine persönlichen Disclosures betreffen:

Anstellungsverhältnis, Führungsposition	Oberarzt, Uniklinik Köln
Beratungs-/ Gutachtertätigkeit	Roche, BMS, Incyte, Recordati, AbbVie, Novartis, Gilead, Miltenyi Biotec, BeiGene, Sandoz
Besitz von Geschäftsanteilen, Aktien oder Fonds	entfällt
Patent, Urheberrecht, Verkaufslizenz	entfällt
Honorare	Roche, Incyte, Recordati, Sandoz, Novartis, BeiGene, AbbVie
Finanzierung wissenschaftlicher Untersuchungen	Roche, Gilead, Incyte
Andere finanzielle Beziehungen	entfällt
Immaterielle Interessenkonflikte	entfällt

Kapitel 1

Die bispezifischen Antikörper – im Zentrum des Interesses auf diesem EHA!

MOSUNETUZUMAB DEMONSTRATES CLINICALLY MEANINGFUL OUTCOMES IN HIGH-RISK PATIENTS WITH HEAVILY PRE-TREATED R/R FL AFTER ≥ 3 YEARS OF FOLLOW-UP: SUBGROUP ANALYSIS OF A PIVOTAL PHASE II Study

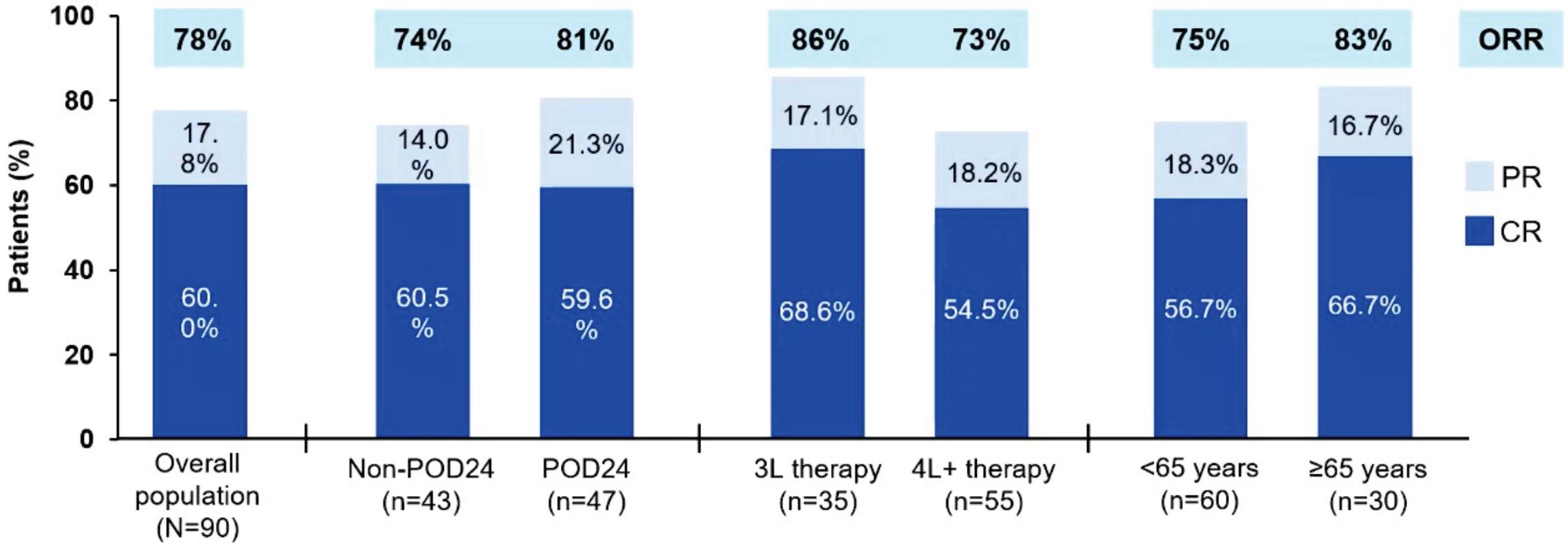
Abstract #S233

Sarit Assouline et al.

Patienten-Charakteristik in den Subgruppen

	Overall population (N=90)	POD24 status		Line of therapy		Age	
		Non-POD24 (n=43)	POD24 (n=47)	3L therapy (n=35)	4L+ therapy (n=55)	<65 years (n=60)	≥65 years (n=30)
Median age, years (range)	60 (29–90)	63 (29–90)	57 (30–83)	61 (29–90)	59 (30–82)	56 (29–64)	71 (65–90)
Male	55 (61%)	22 (51%)	33 (70%)	17 (49%)	38 (69%)	41 (68%)	14 (47%)
ECOG PS							
0	53 (59%)	24 (56%)	29 (62%)	19 (54%)	34 (62%)	36 (60%)	17 (57%)
1	37 (41%)	19 (44%)	18 (38%)	16 (46%)	21 (38%)	24 (40%)	13 (43%)
Ann Arbor stage III/IV	69 (77%)	29 (67%)	40 (85%)	25 (71%)	44 (80%)	48 (80%)	21 (70%)
Median lines of prior therapy, n (range)	3 (2–10)	3 (2–7)	3 (2–10)	2 (2–2)	4 (3–10)	3 (2–10)	3 (2–7)
Refractory to last prior therapy	62 (69%)	26 (61%)	36 (77%)	22 (63%)	40 (73%)	44 (73%)	18 (60%)
Refractory to prior anti-CD20 therapy	71 (79%)	31 (72%)	40 (85%)	25 (71%)	46 (84%)	48 (80%)	23 (77%)
Double refractory	48 (53%)	19 (44%)	29 (62%)	13 (37%)	35 (64%)	35 (58%)	13 (43%)

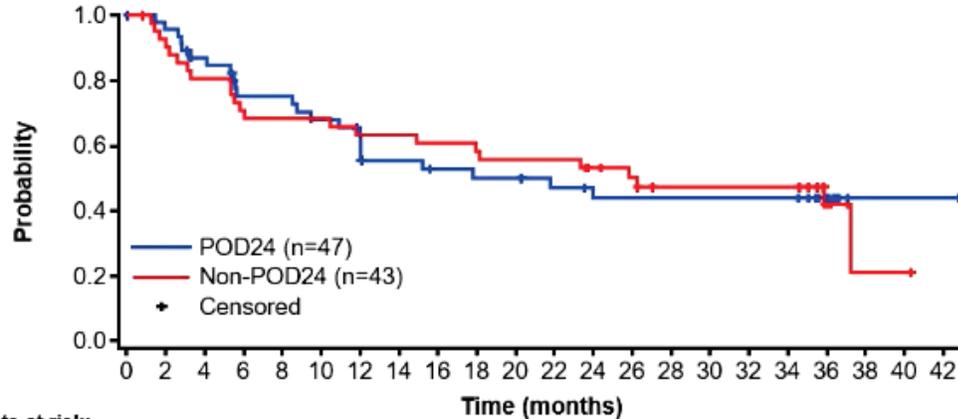
Therapieansprechen



CR rates across high-risk subgroups were consistent with the overall population; higher CR rates were observed in patients who received mosunetuzumab in 3L than in the other subgroups

Subgruppe POD24

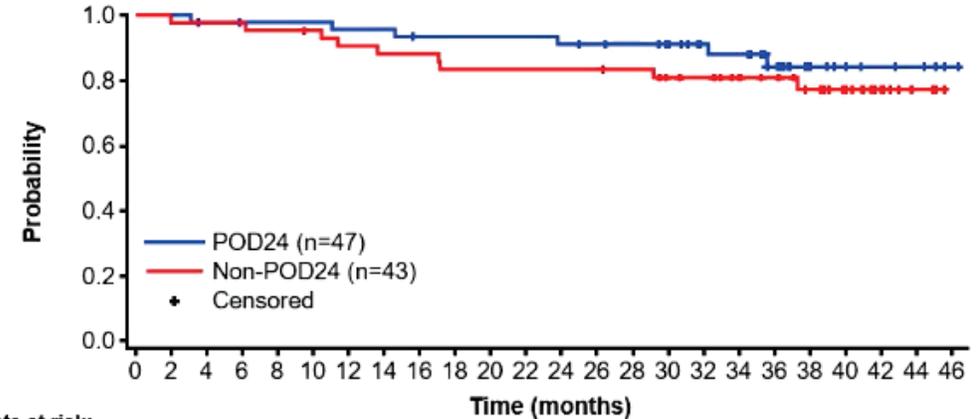
PFS



Patients at risk:

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42
POD24	47	44	38	31	31	28	22	21	19	18	18	16	14	14	14	14	14	14	10	1	1	1
Non-POD24	43	37	33	29	28	27	25	25	24	23	22	22	19	17	14	14	14	14	6	1	1	NE

OS



Patients at risk:

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	
POD24	47	47	45	44	44	44	43	43	41	41	41	41	41	40	39	38	35	29	28	21	14	10	8	4	1
Non-POD24	43	42	42	42	41	40	38	37	37	35	35	35	35	35	34	31	30	27	24	20	15	8	3	NE	

	Overall population (N=90)	Non-POD24 (n=43)	POD24 (n=47)
Median PFS, months (95% CI)	24.0 (12.0–NE)	26.3 (11.8–NE)	17.8 (12.0–NE)
36-month PFS, % (95% CI)	43 (31.8–54.7)	42 (25.0–59.0)	44 (28.2–59.5)

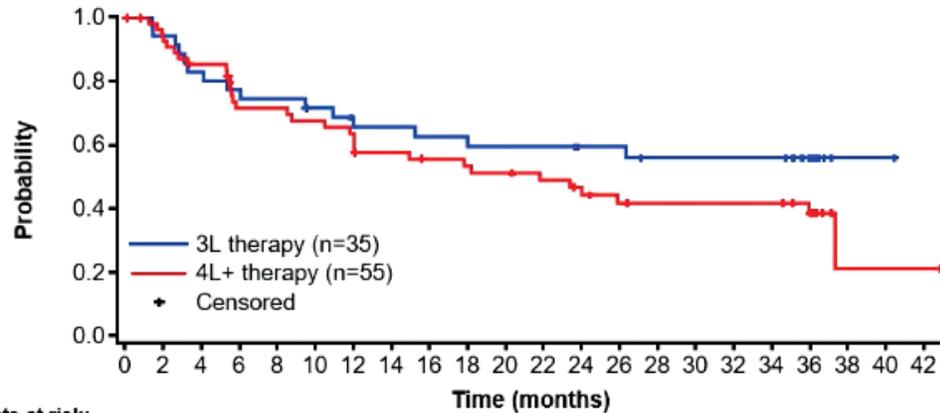
	Overall population (N=90)	Non-POD24 (n=43)	POD24 (n=47)
Median OS, months (95% CI)	NR (NE)	NR (NE)	NR (NE)
36-month OS, % (95% CI)	83 (74.6–91.2)	81 (69.1–92.9)	84 (72.1–96.3)

Similar PFS and OS benefit were observed in patients with non-POD24 and POD24

PFS, progression-free survival.

Subgruppe Therapielinie

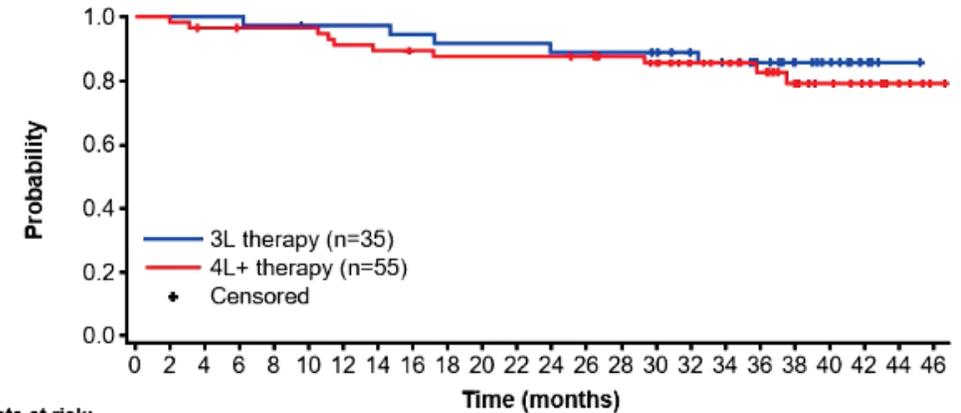
PFS



Patients at risk:

Time (months)	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	
3L therapy (n=35)	35	32	28	26	25	23	20	20	19	18	18	18	16	16	14	14	14	14	14	6	1	1	NE
4L+ therapy (n=55)	55	49	43	34	34	32	27	26	24	23	22	20	17	15	14	14	14	14	14	10	1	1	1

OS



Patients at risk:

Time (months)	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46
3L therapy (n=35)	35	35	35	35	34	33	33	33	32	31	31	31	30	30	30	28	26	24	19	14	10	3	1	NE
4L+ therapy (n=55)	55	54	52	51	51	51	48	47	46	45	45	45	45	44	42	38	33	31	26	20	15	13	6	1

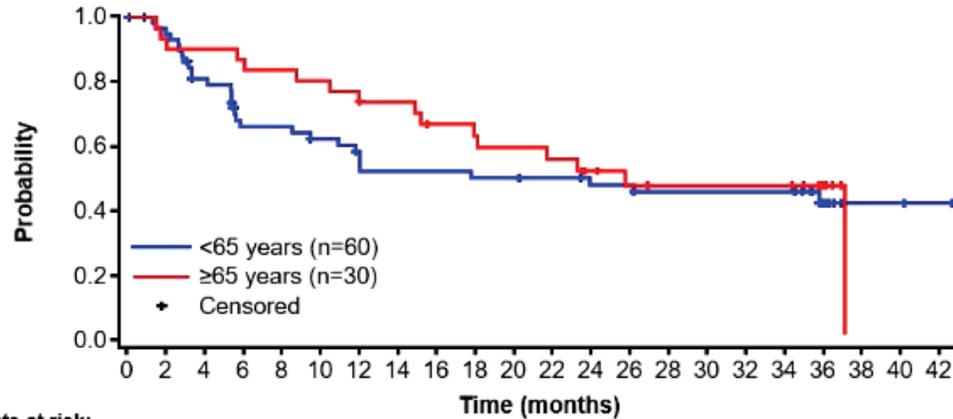
	Overall population (N=90)	3L therapy (n=35)	4L+ therapy (n=55)
Median PFS, months (95% CI)	24.0 (12.0–NE)	NR (12.0–NE)	18.1 (11.8–37.3)
36-month PFS, % (95% CI)	43 (31.8–54.7)	54 (37.0–71.5)	36 (21.8–50.7)

	Overall population (N=90)	3L therapy (n=35)	4L+ therapy (n=55)
Median OS, months (95% CI)	NR (NE)	NR (NE)	NR (NE)
36-month OS, % (95% CI)	83 (74.6–91.2)	85 (72.7–97.2)	82 (70.5–92.8)

Numerically higher PFS benefit in patients who received mosunetuzumab in 3L versus 4L+

Subgruppe Alter

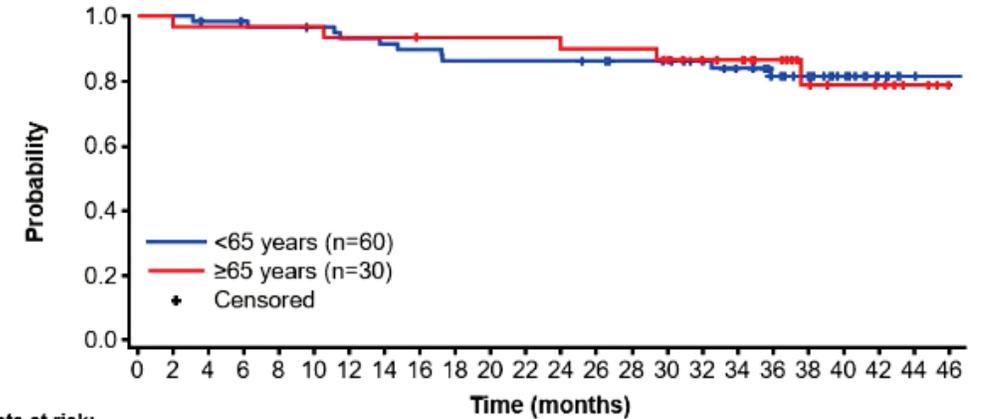
PFS



Patients at risk:

Time (months)	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42
<65 years	60	54	44	34	34	31	25	25	25	24	24	23	21	21	19	19	19	19	10	2	2	1
≥65 years	30	27	27	26	25	24	22	21	18	17	16	15	12	10	9	9	9	9	6	NE	NE	NE

OS



Patients at risk:

Time (months)	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	
<65 years	60	60	58	57	56	55	53	52	51	49	49	49	49	48	46	44	39	36	30	25	17	11	4	1	
≥65 years	30	29	29	29	29	29	28	28	27	27	27	27	27	26	26	26	22	20	19	15	9	8	5	3	NE

	Overall population (N=90)	<65 years (n=60)	≥65 years (n=30)
Median PFS, months (95% CI)	24.0 (12.0–NE)	17.8 (9.4–NE)	25.8 (15.2–NE)
36-month PFS, % (95% CI)	43 (31.8–54.7)	42 (27.3–55.8)	47 (28.1–65.8)

	Overall population (N=90)	<65 years (n=60)	≥65 years (n=30)
Median OS, months (95% CI)	NR (NE)	NR (NE)	NR (NE)
36-month OS, % (95% CI)	83 (74.6–91.2)	81 (70.6–91.9)	86 (74.0–98.8)

36-month PFS and OS rates in patients ≥65 years were consistent with the overall population

EPCORITAMAB INDUCES DEEP RESPONSES IN RELAPSED OR REFRACTORY (R/R) FOLLICULAR LYMPHOMA (FL): SAFETY AND POOLED EFFICACY DATA FROM EPCORE NHL-1 PIVOTAL AND CYCLE (C) 1 OPTIMIZATION (OPT) FL COHORTS

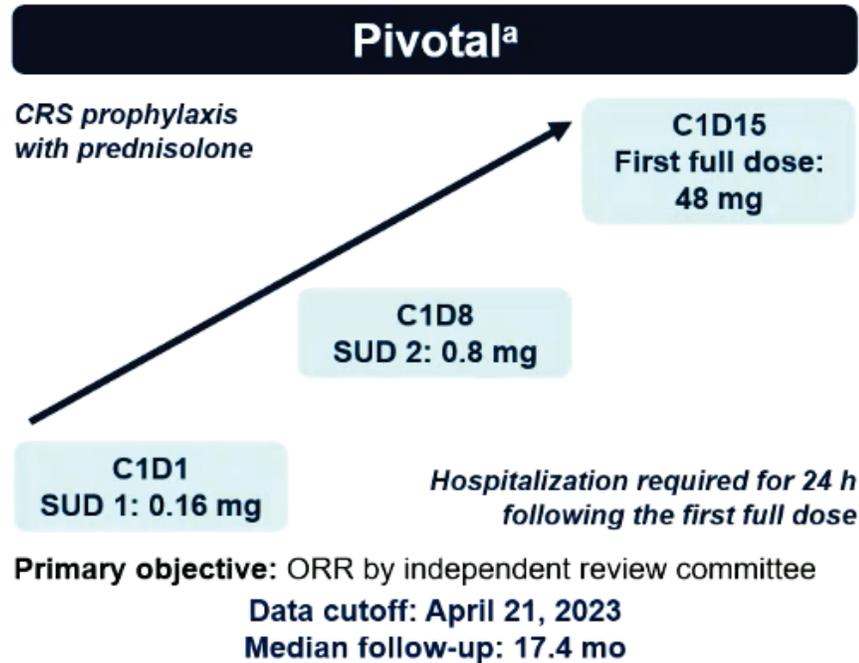
Abstract #S234

Umberto Vitolo et al.

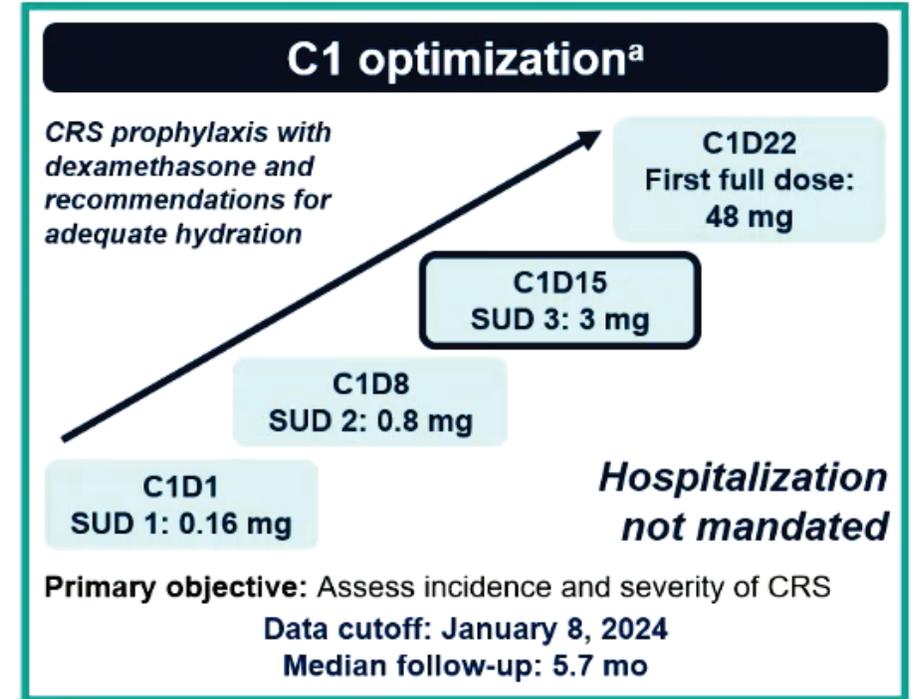
EPCORE NHL-1: Studiendesign

Key inclusion criteria

- R/R CD20⁺ FL grade 1–3A
- ECOG PS 0–2
- ≥2 prior lines of antineoplastic therapy, including ≥1 regimen with an anti-CD20 mAb
- Prior treatment with an alkylating agent or lenalidomide
- FDG-avid disease by PET/CT
- Prior CAR T allowed



N=128

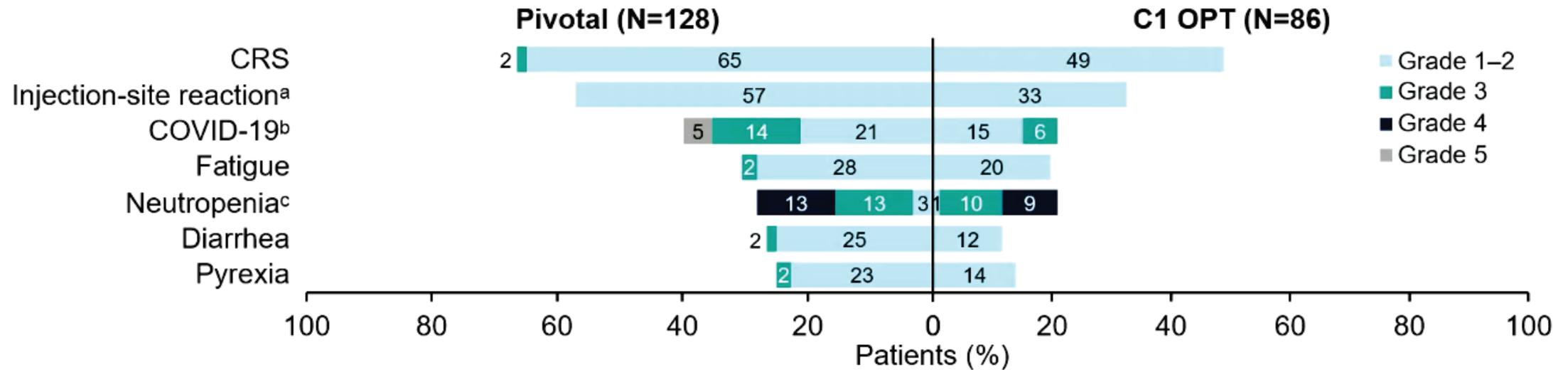


N=86

Phase 1/2 trial. C, cycle; CAR T, chimeric antigen receptor T-cell therapy; ECOG PS, Eastern Cooperative Oncology Group performance status; mAb, monoclonal antibody; MRD, minimum residual disease; OPT, optimization; ORR, overall response rate; QW, weekly; Q2W, every 2 weeks; Q4W, every 4 weeks; SUD, step-up dose. ^aPatients received subcutaneous epcoritamab QW C1–3, Q2W C4–9, and Q4W C≥10 until progressive disease (≥2 measurable [by CT/MRI] and FDG PET–positive lesions) or unacceptable toxicity. Radiographic disease evaluation was performed every 6 wk for the first 24 wk (6, 12, 18, and 24 wk), then every 12 wk (36 and 48 wk), and every 6 mo thereafter. MRD was assessed in peripheral blood using the clonoSEQ[®] (Adaptive Biotechnologies, Seattle, WA) next-generation sequencing assay. ClinicalTrials.gov: NCT03625037; EudraCT: 2017-001748-36.

4

EPCORE NHL-1: Toxizitäten

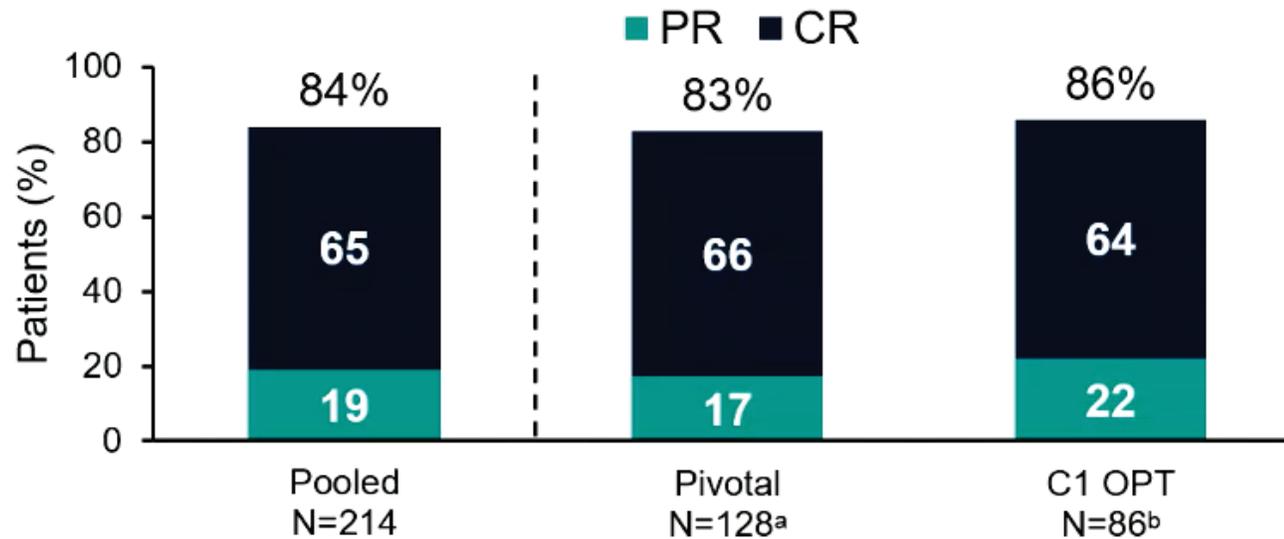


- In the C1 OPT cohort:
 - Grade ≥ 3 TEAEs occurred in 46 patients (53%)
 - TEAEs led to treatment discontinuation in 3 patients (3%; grade 2 bronchopulmonary aspergillosis [n=1] and pneumonitis [n=2])
 - No fatal TEAEs
- No clinical tumor lysis syndrome occurred in either cohort
- There is an increased risk of morbidity and mortality due to infections for patients with hematologic malignancies being treated with B-cell-depleting therapies

Graph shows TEAEs that occurred in $\geq 25\%$ of patients in either cohort. TEAE, treatment-emergent AE. ^aCombined term includes injection-site reaction, erythema, rash, bruising, pruritus, inflammation, pain, edema, and nodule. ^bCombined term includes COVID-19 and COVID-19 pneumonia. ^cCombined term includes neutropenia and neutrophil count decreased. Four patients in the pivotal cohort and 1 patient in C1 OPT had febrile neutropenia (all grade 3).

7

EPCORE NHL-1: Therapieansprechen / MRD



MRD-Negativity Rate	n (%)
Pooled (n=135)	89 (66)
Pivotal (n=91)	61 (67)
C1 OPT (n=44)	28 (64)

Based on MRD-evaluable population per clonoSEQ[®] PBMC assay with 10⁻⁶ cutoff.

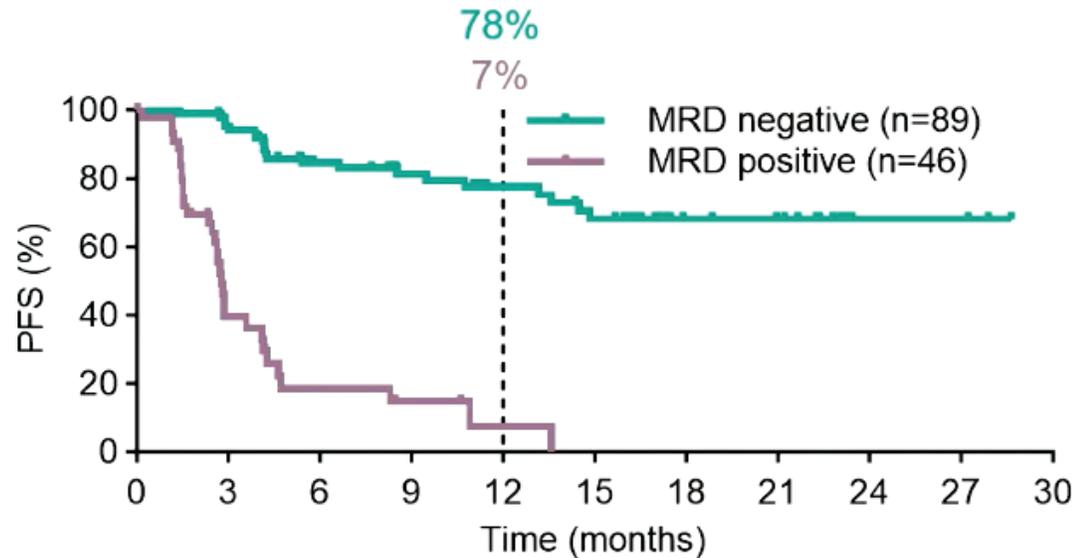
- No impact on time to response in C1 OPT
 - Median time to response was 1.4 mo in both cohorts^c
 - Median time to complete response was 1.5 mo in both cohorts^d

CR was complete metabolic response (ie, PET negativity). CR, complete response; PBMC, peripheral blood mononuclear cell; PR, partial response. ^aThree patients (2%) were not evaluable. ^bFive patients (6%) were not evaluable. ^cRange: 1.2–4.4 in C1 OPT, 1.0–3.0 in pivotal. ^dRange: 1.2–4.7 in C1 OPT, 1.2–11.1 in pivotal.

10

EPCORE NHL-1: MRD-Negativität und PFS

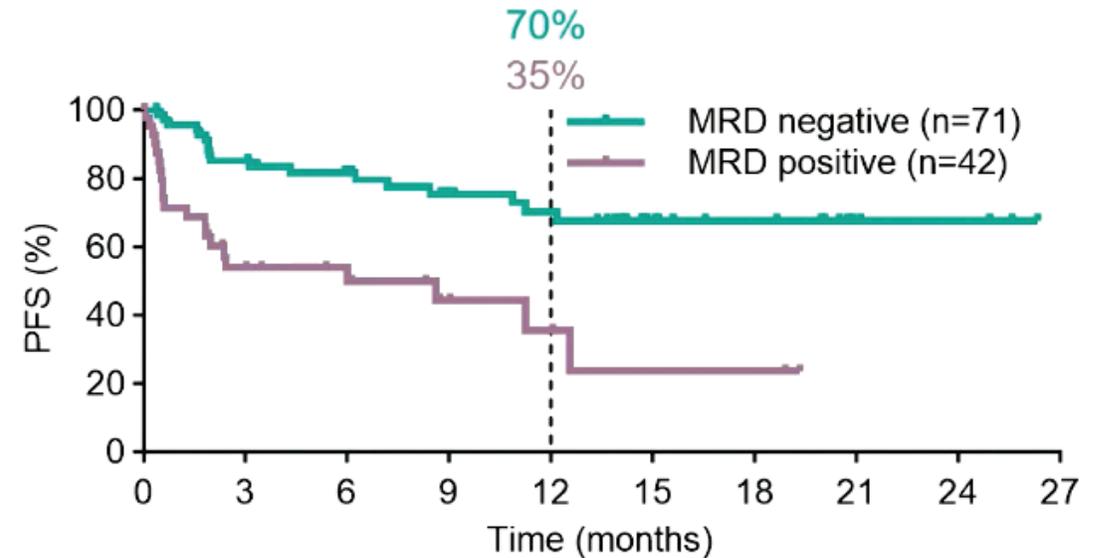
All MRD-Evaluable Patients (n=135)



Number at risk

89	83	57	45	33	28	13	11	3	3	0
46	12	5	3	1	0	0	0	0	0	0

Patients With MRD Data at C3D1 Landmark (n=113)



Number at risk

71	55	44	31	27	15	10	4	3	0
42	17	13	6	4	2	2	0	0	0

Median follow-up: 17.4 mo for pivotal cohort and 5.7 mo for C1 OPT cohort. PFS assessed by investigator. MRD was assessed in peripheral blood using the clonoSEQ® next-generation sequencing assay with 10^{-6} cutoff. MRD negative was defined as having MRD negativity at any time point (left graph) or at any time point up to C3D1 (right graph).

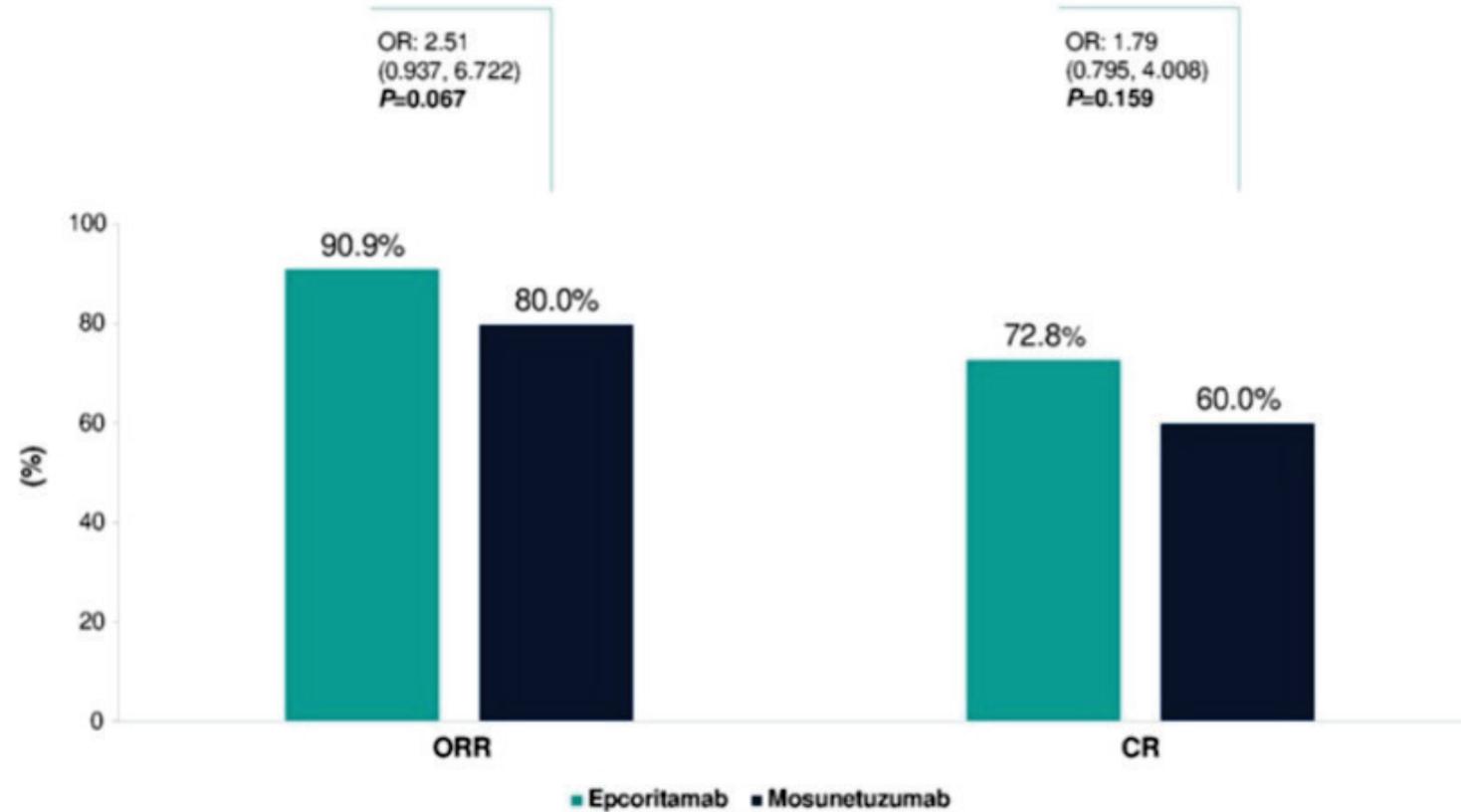
11

MATCHING-ADJUSTED INDIRECT COMPARISONS OF EPCORITAMAB VS MOSUNETUZUMAB OR ODRONEXTAMAB IN RELAPSED/REFRACTORY FOLLICULAR LYMPHOMA AFTER ≥ 2 SYSTEMIC THERAPIES

Abstract #P1121

Alexey Danilov et al.

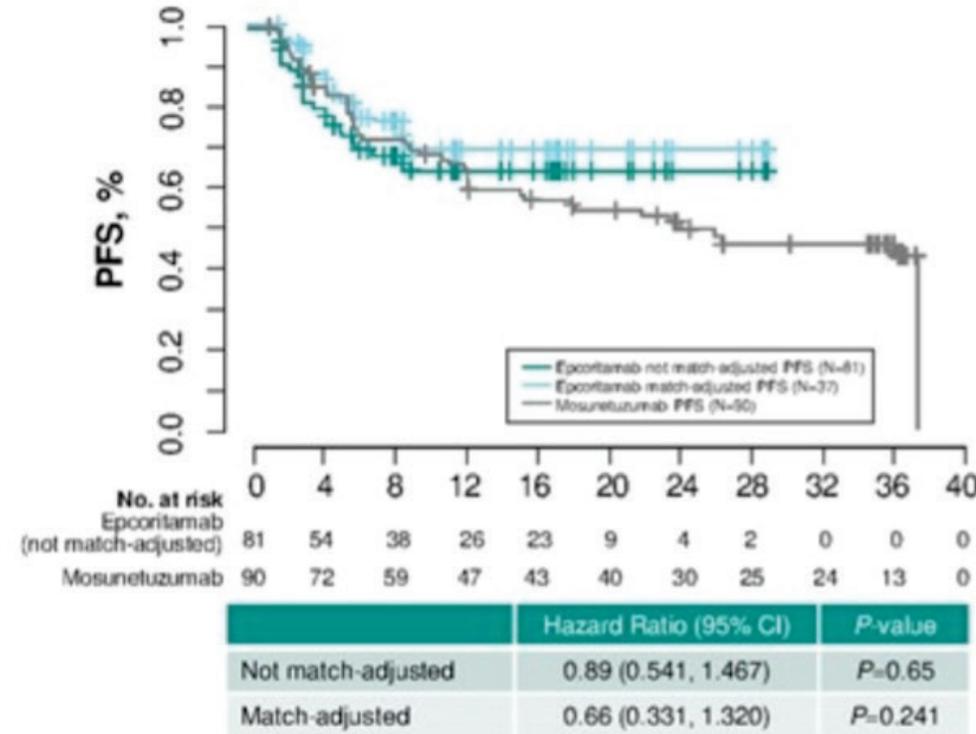
Figure 1. Match-adjusted ORR and CR rates with odds ratios (95% CI) for epcoritamab vs mosunetuzumab



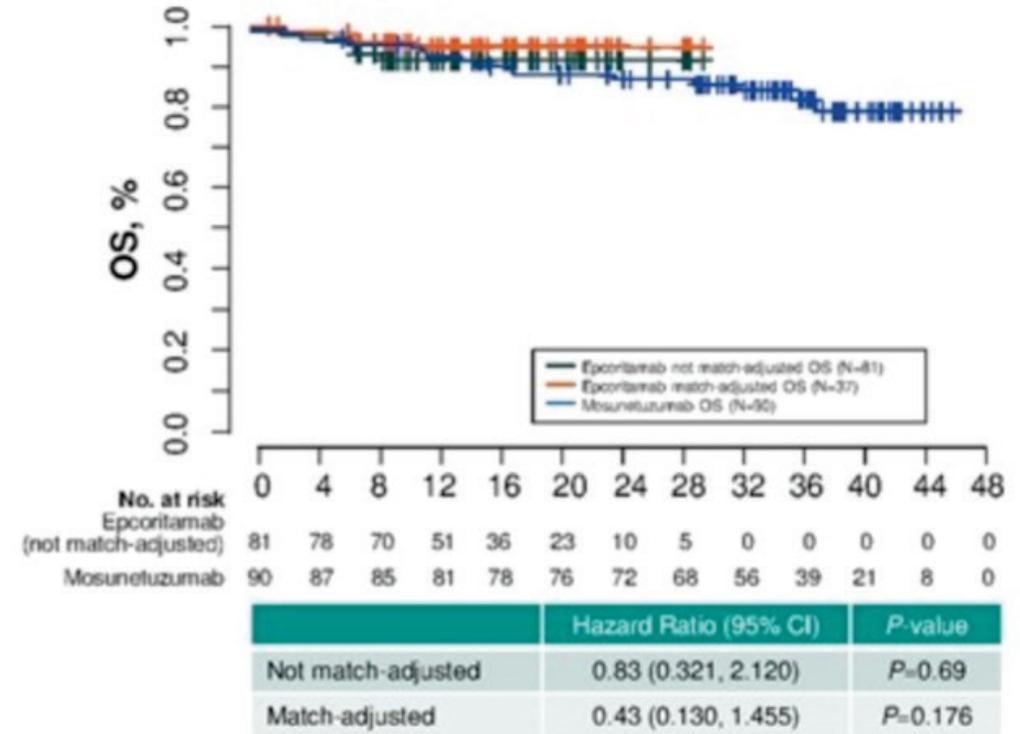
CI, confidence interval; CR, complete response; OR, odds ratio; ORR, overall response rate.

Figure 3. PFS and OS of epcoritamab vs mosunetuzumab^a

A. PFS



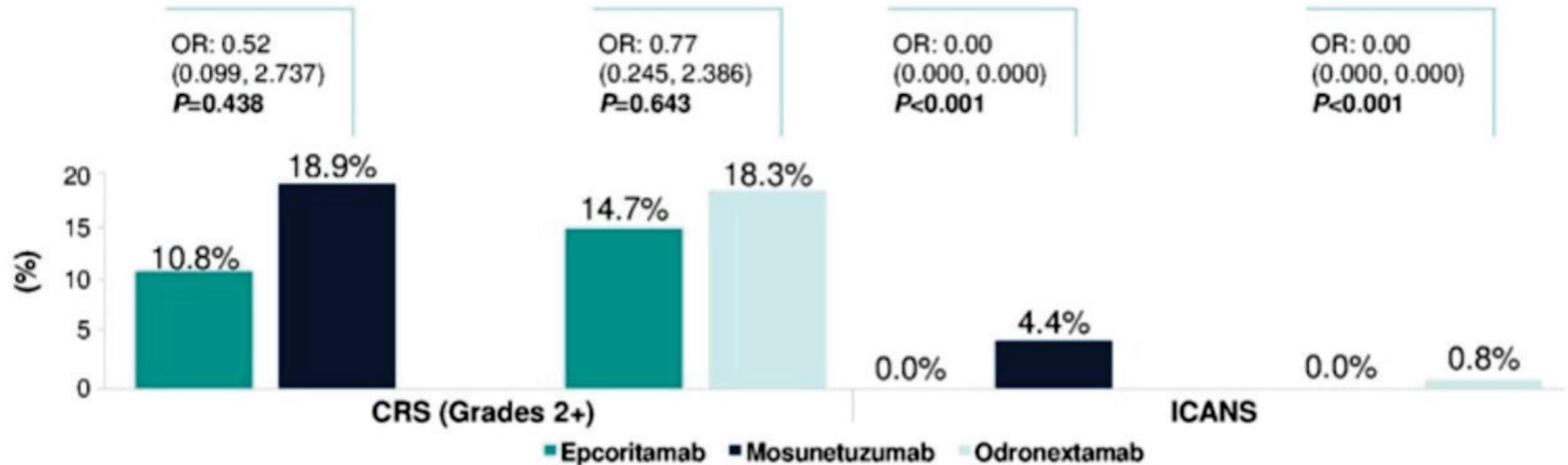
B. OS



MAIC, matching-adjusted indirect comparison; OS, overall survival; PFS, progression-free survival.

^aSurvival analyses were adjusted for the impact of the COVID-19 pandemic by censoring COVID-19 deaths occurring during EPCORE NHL-1 data collection.

Figure 5. Matching-adjusted safety comparisons for epcoritamab vs mosunetuzumab and odronextamab



CRS, cytokine release syndrome; ICANS, immune effector cell-associated neurotoxicity syndrome; OR, odds ratio.

Kapitel 2

CAR-T-Zellen – gibt es neue Daten zum FL?

CLINICAL OUTCOMES OF PATIENTS WITH RELAPSED/REFRACTORY FOLLICULAR LYMPHOMA TREATED WITH TISAGENLECLEUCEL: PHASE 2 ELARA 3-YEAR FOLLOW-UP

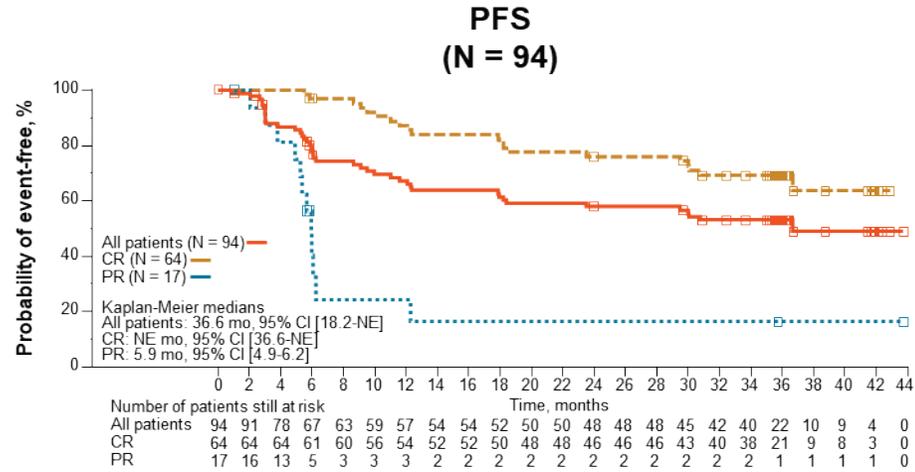
Abstract #P1455

Martin Dreyling et al.

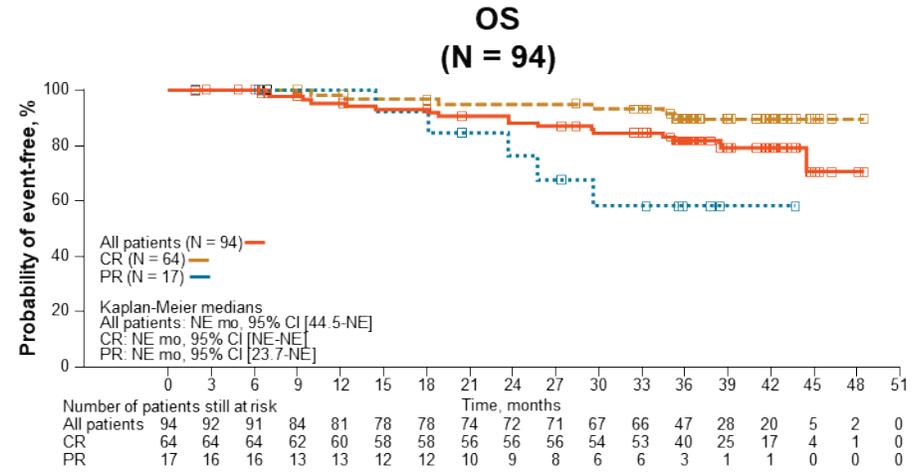
ELARA: Patienten-Charakteristik

	Infused set (N = 97)
Median age (range), years	57.0 (29-73)
ECOG PS \geq 1 prior to infusion, n (%)	42 (43)
Stage at study entry III-IV, n (%)	83 (86)
Bone marrow involvement, n (%)	37 (38)
Bulky disease,^a n (%)	62 (64)
FLIPI high at study entry (\geq 3), n (%)	58 (60)
Median no. of prior therapies (range)	4 (2-13)
POD24 from first anti-CD20 mAb containing therapy, n (%)	61 (63)
Refractory disease to last line of therapy, n (%)	76 (78)
Refractory to \geq 2 regimens, n (%)	69 (71)
Double refractory: anti-CD20 mAb + alkylating agent	66 (68)
Refractory to PI3K inhibitors	14 (14)
Prior autologous HSCT, n (%)	35 (36)
Comorbidities, n (%)	
Cardiac disorders	15 (16)
Diabetes	10 (10)
Renal insufficiency	8 (8)

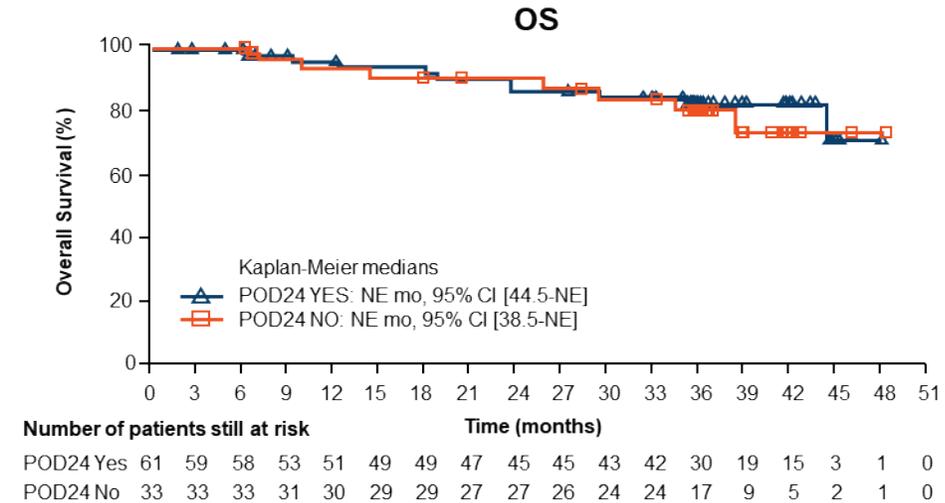
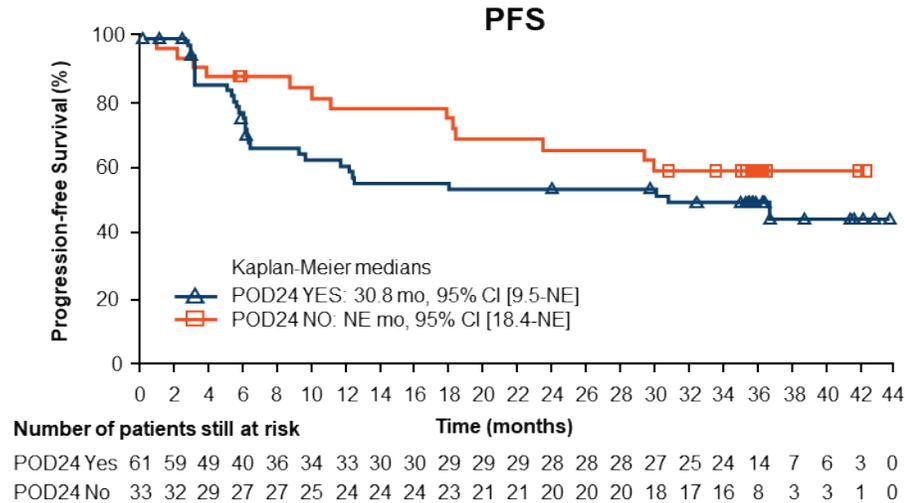
ELARA: PFS und OS



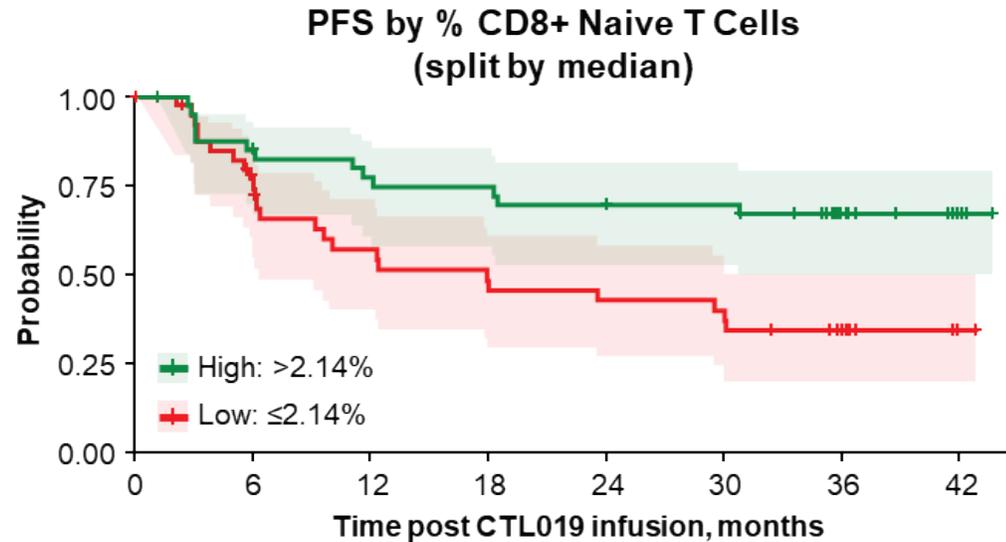
Median PFS was 37 months



Median OS was not reached

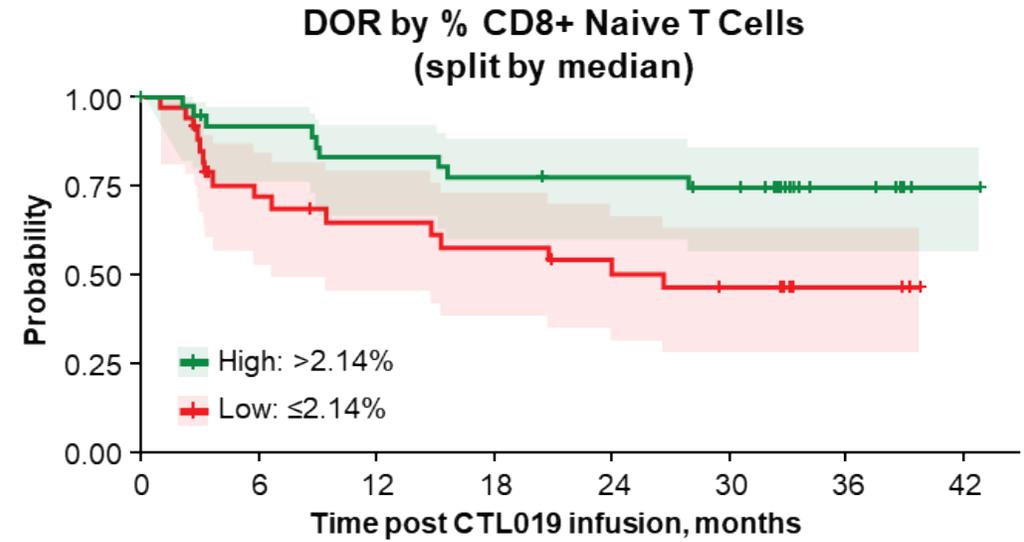


ELARA: Biomarker-Analysen



Number at risk (number of events)

Low: ≤2.14%	41 (0)	26 (11)	20 (16)	16 (20)	15 (21)	13 (23)	9 (24)	1 (24)
High: >2.14%	41 (0)	33 (6)	30 (9)	29 (10)	26 (12)	26 (12)	11 (13)	3 (13)



Number at risk (number of events)

Low: ≤2.14%	34 (0)	21 (9)	18 (11)	16 (13)	14 (14)	11 (16)	3 (16)	0 (16)
High: >2.14%	37 (0)	32 (3)	29 (6)	27 (8)	26 (8)	24 (9)	7 (9)	1 (9)

Kapitel 3

Die Transformation – kann die Prognose abgeschätzt werden?

TIMING MATTERS: IMPACT OF EARLY HISTOLOGICAL TRANSFORMATION ON SURVIVAL IN FOLLICULAR LYMPHOMA (FL) PATIENTS: A MULTICENTRE ANALYSIS

Abstract #P1108

Andrea Franch et al.

Hintergrund und Methodik

- **154 patients** (76F/78M; median age 62 years) with **FL grade 1-3a** who experienced **HT** (≥ 6 months after diagnosis)
- **2003 - 2017**
- **20 centers** of the GELTAMO group

HYSTOLOGY AT TRANSFORMATION



- 2 groups regarding **time from diagnosis to HT**:

EARLY HT (HT \leq 48)

Before 48 months from diagnosis

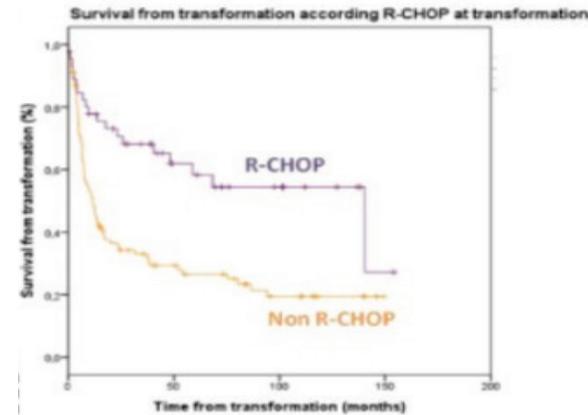
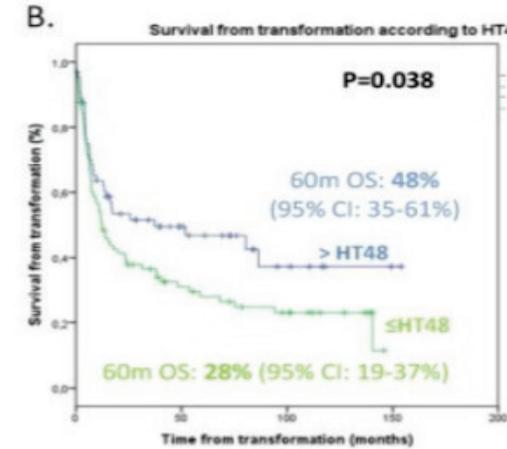
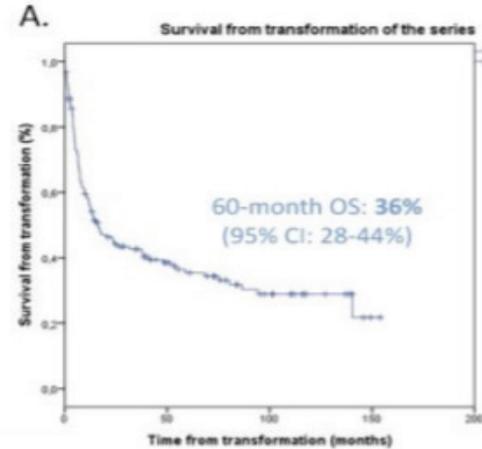
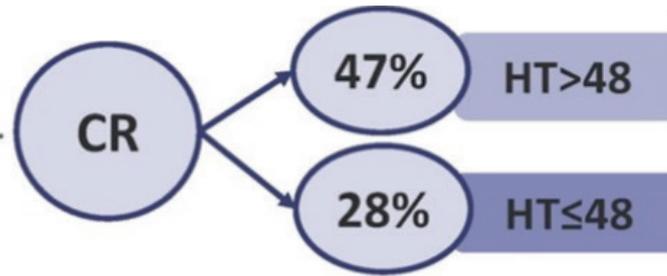
LATE HT (HT $>$ 48)

After 48 months from diagnosis

- Clinical characteristics and treatment at HT, as well as survival after HT were analyzed based on the timing of HT.

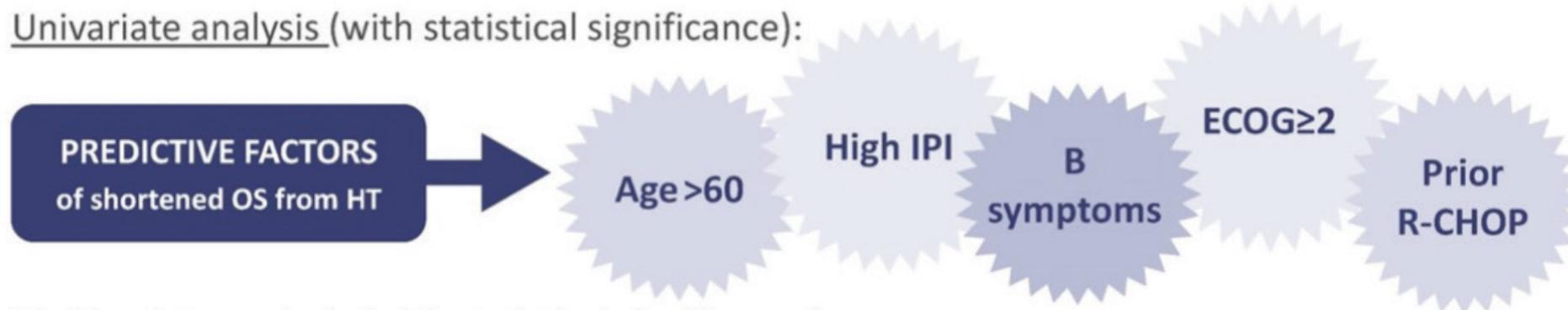
Ergebnisse

CR rate was lower in HT \leq 48 ($p=0.02$).

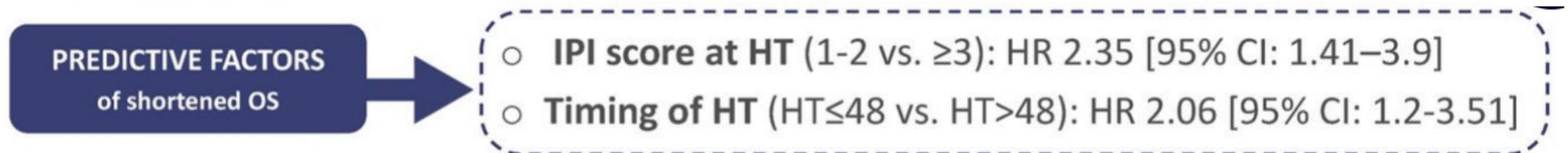


Risikofaktoren

- Univariate analysis (with statistical significance):



- Multivariate analysis (with statistical significance):



Zusammenfassung | Take-Home-Messages

- Die CD3xCD20 bispezifischen Antikörper zeigen eine hohe Effektivität beim r/r FL. Auch bei Risiko-Patienten (z.B. POD24) sind bispezifische Antikörper sehr gut wirksam.
- Die Nebenwirkungen (CRS, ICANS) der bispezifischen Antikörper sind beherrschbar und lassen sich durch eine Dosismodifikation zu Therapiebeginn weiter reduzieren.
- Die CAR-T-Zellen belegen im mehrjährigen Verlauf ein gutes Ansprechen bei akzeptablem Nebenwirkungsprofil.
- Patienten mit einer Transformation innerhalb von 48 Monaten nach Erstdiagnose haben ein ungünstiges Gesamtüberleben.

Die Kurzpräsentationen sind online unter

www.lymphome.de/eha2024

Für den Inhalt verantwortlich:

Prof. Dr. med. Kai Hübel

Uniklinik Köln

Das Informationsprojekt wird unterstützt von den Firmen:

abbvie

AMGEN

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A Sandoz Brand



Diese hatten keinen Einfluss auf die Inhalte.