



**KML-Expert:innen berichten
17th ICML 2023 LUGANO**

**Lymphom
Kompetenz
KOMPAKT**



KML KONGRESSE

**Expert:innen berichten zu
Lymphomen & Leukämien**



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

Mantelzell-Lymphom (MCL)

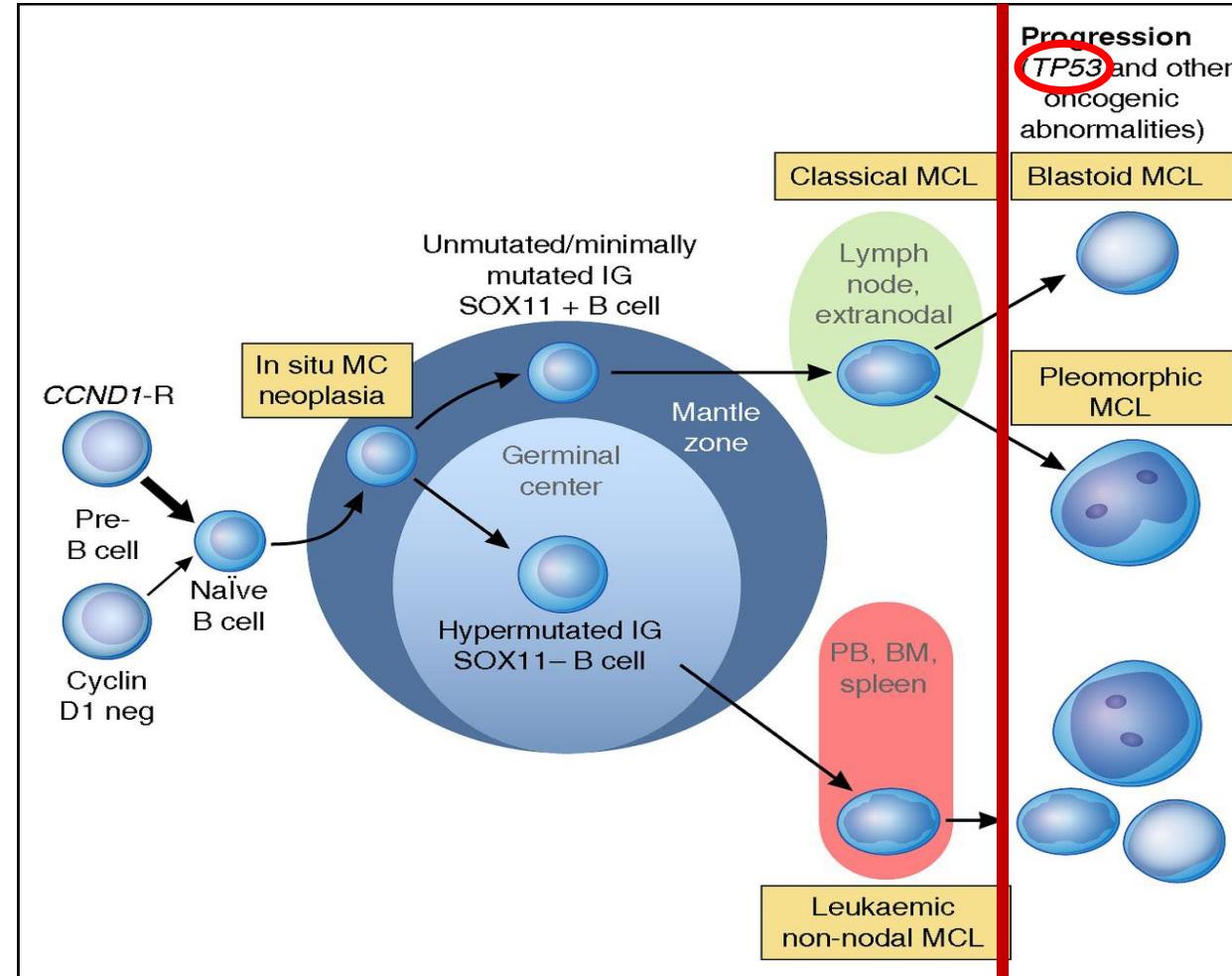
Offenlegung potentieller Interessenskonflikte

LymphomKompetenz KOMPAKT – ICML2023 wird in Kooperation mit fünf unterstützenden Firmen durchgeführt.
Meine persönlichen Disclosures betreffen:

Research Support (institution)	Abbvie, Bayer, BMS/Celgene, Gilead/Kite, Janssen, Roche
Employee	-
Major Stockholder	-
Speakers Bureau	-
Speakers Honoria	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

Mantle cell Lymphoma

Spectrum of disease



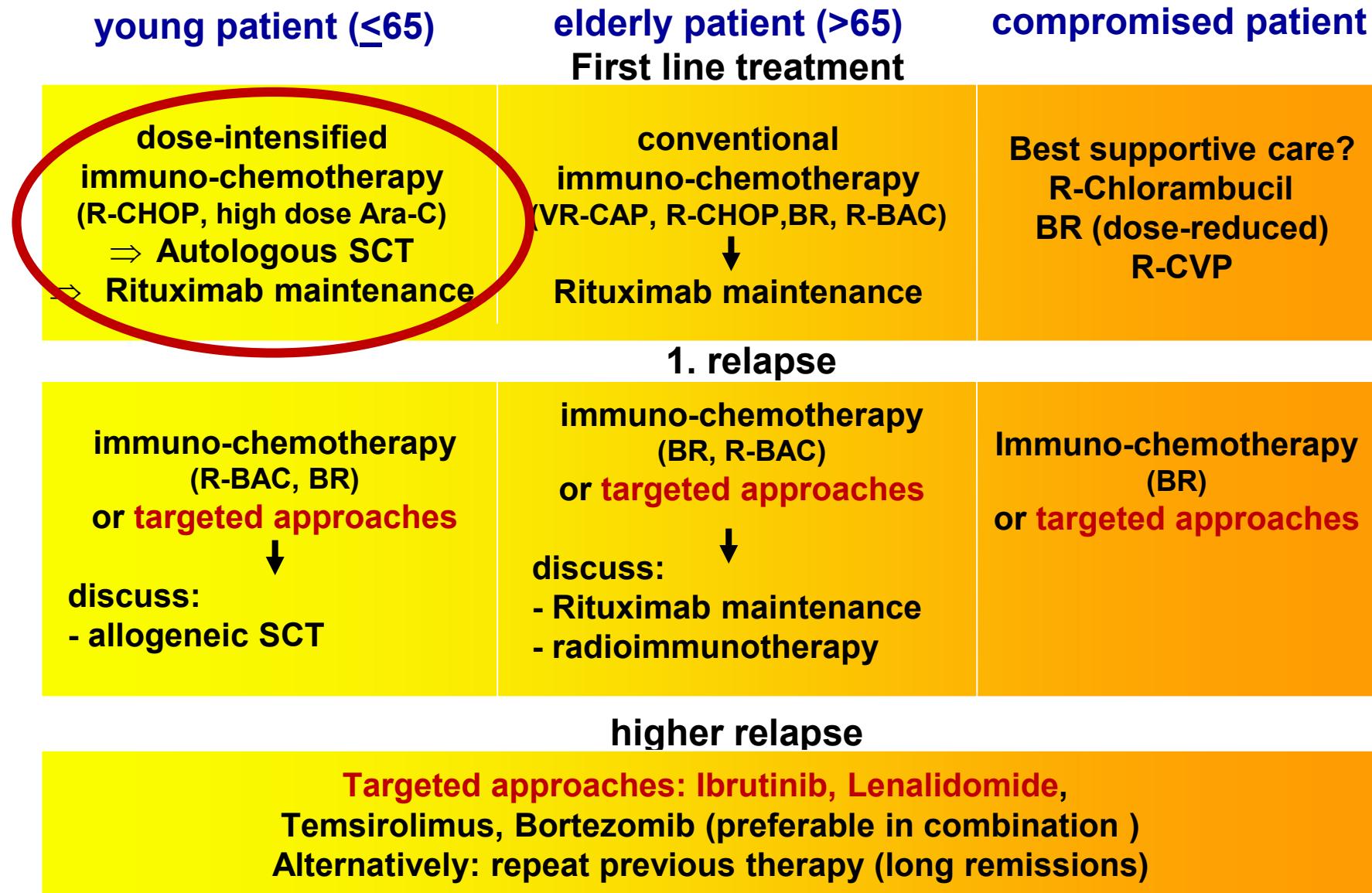
Dreyling, Ann Oncol 2017

Kapitel 1

First line MCL (younger patients)

Mantle cell lymphoma

Therapeutic algorithm





Very Long-term follow-up of rituximab maintenance in young patients with mantle cell lymphoma included in the LYMA trial, a LYSA study

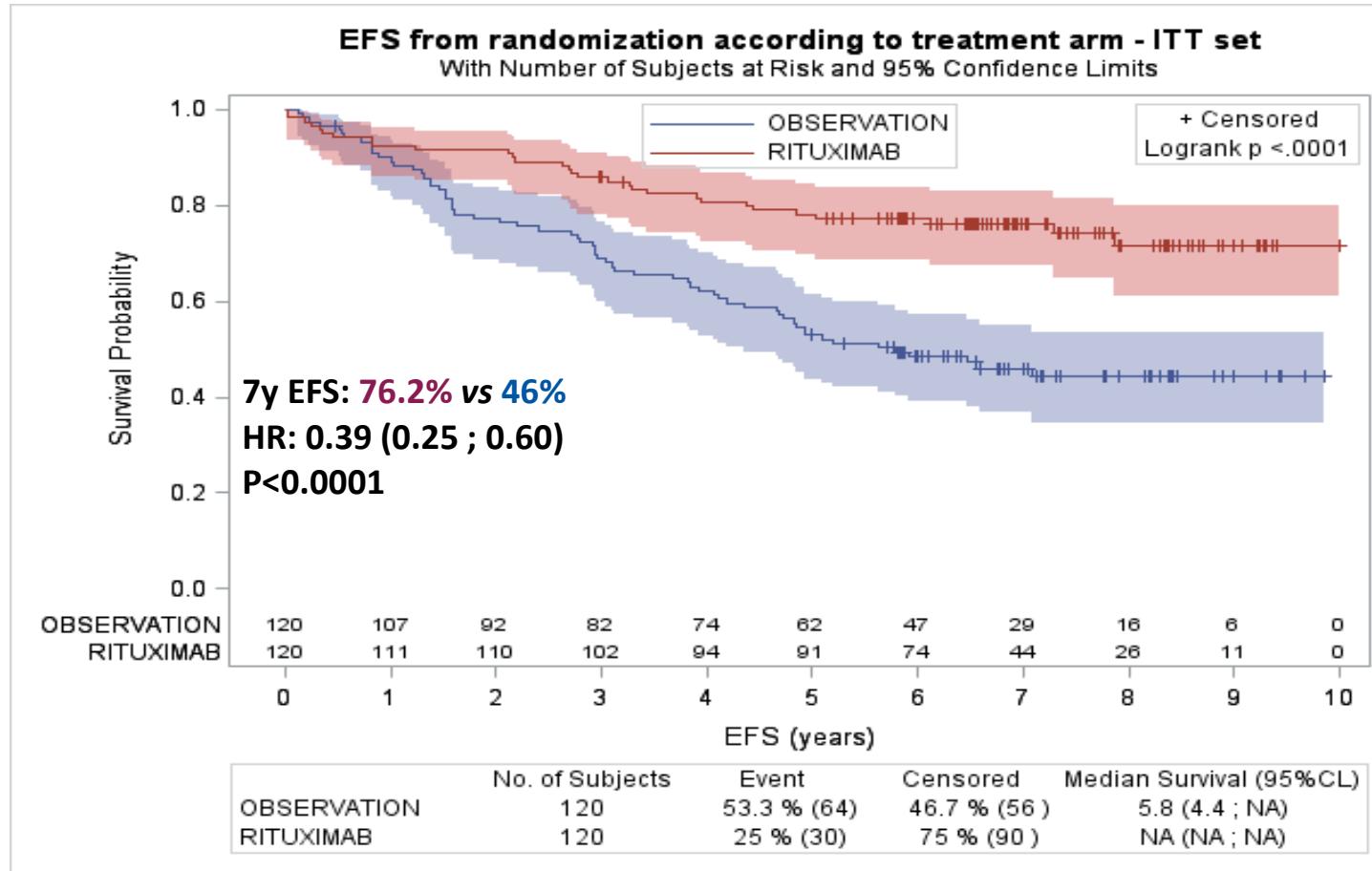
Clémentine Sarkozy, Catherine Thieblemont, Lucie Oberic, Anne Moreau, Krimo Bouabdallah, Gandhi Damaj, Thomas Gastinne, Vincent Ribrag, Olivier Casasnovas, Corinne Haioun, Roch Houot, Fabrice Jardin, Eric Van Den Neste, Morgane Cheminant, Franck Morschhauser, Mary Callanan, Hervé Guesquières, Remy Gressin, Olivier Hermine, and Steven Le Gouill.

EFS from randomization



Median FU for living patients:

- from inclusion: 7.5 y (95% CI 7.4-7.7)
- from randomization: 7 y (95% CI 6.8-7.2)

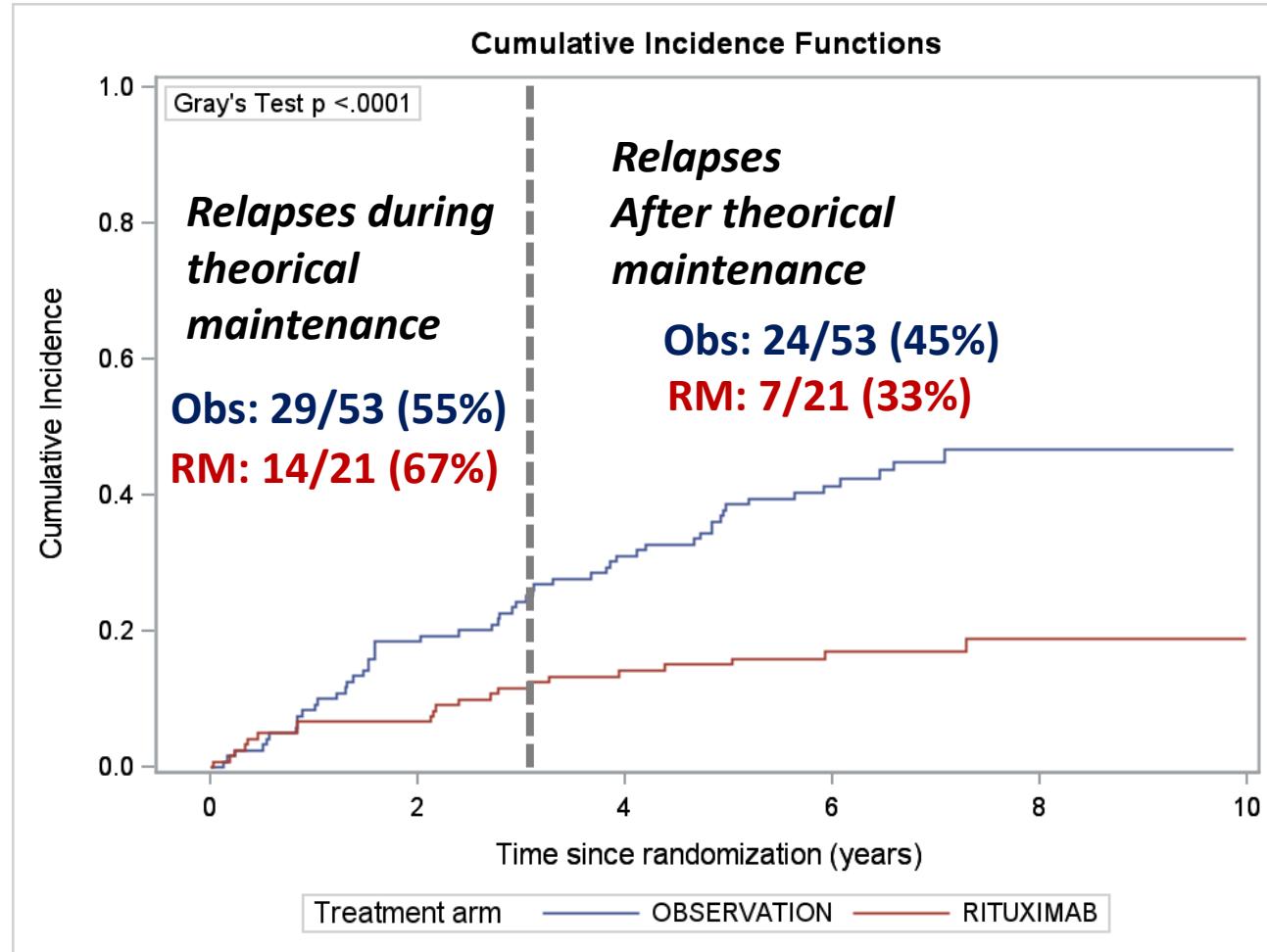


Nature of first Event	Observation, N=64/120 (53%)	Rituximab N=30/120 (25%)
Relapse	51 (80%)	19 (63%)
Death w/o relapse	9 (14%)	6 (20%)
Serious infections	4 (6%)	4 (13%)
Life threatening allergy to R	0	1 (4%)

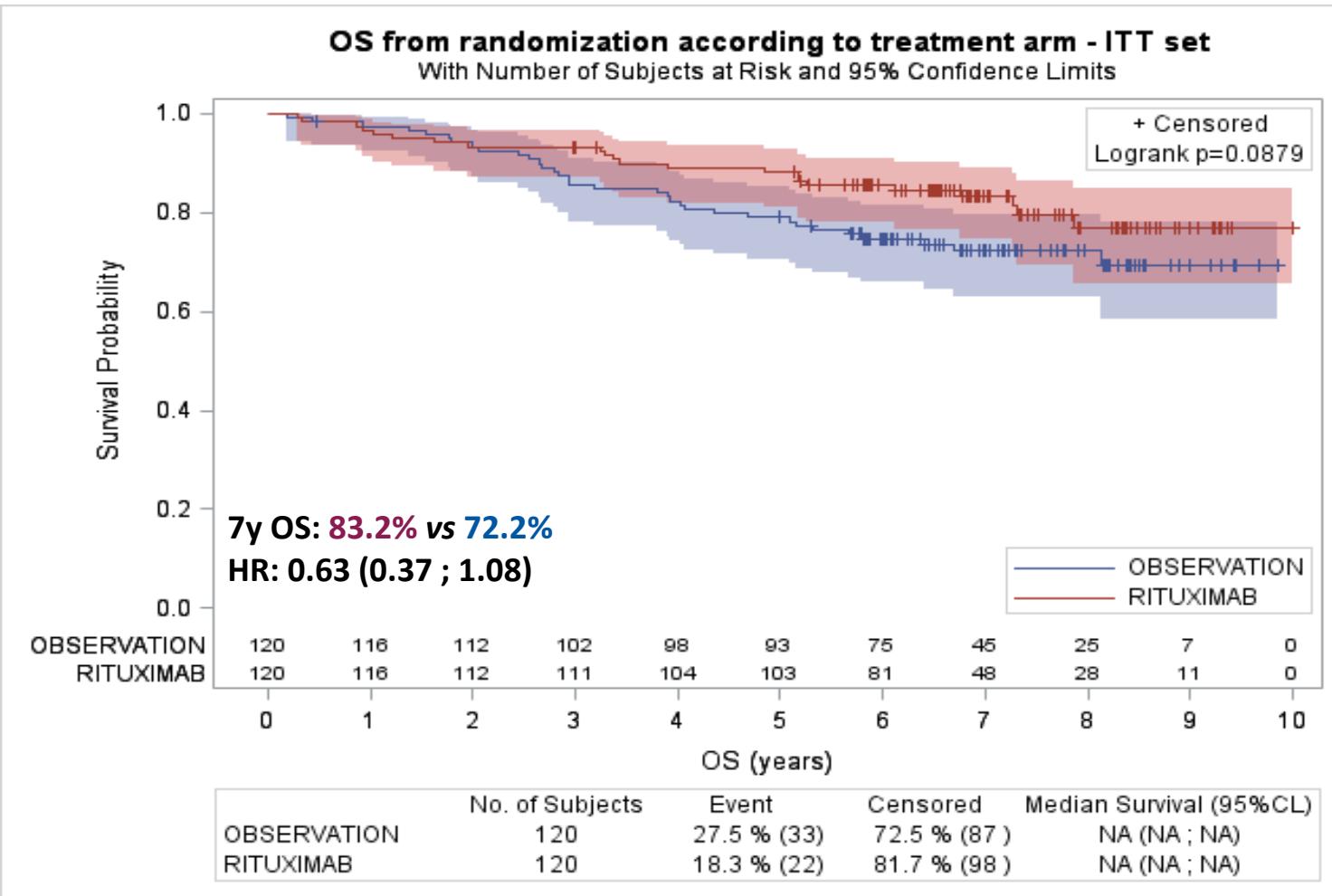
Relapses during *versus* after 3 years of theoretical RM



The end of RM
was not
associated with
an increase of the
relapses



Overall Survival from randomization

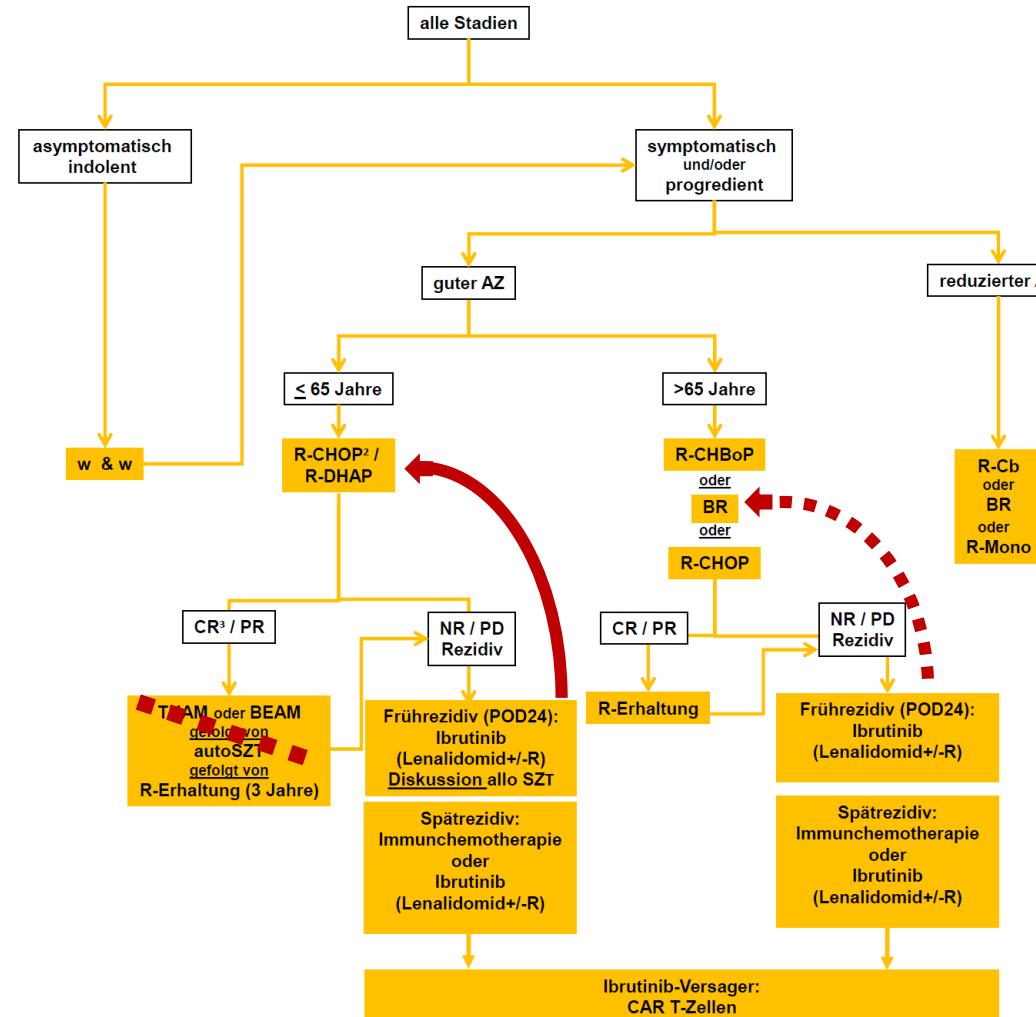


Cause of death	Observation, N=33/120 (27.5%)	Rituximab, N=22/120 (18%)
Lymphoma	16 (48.5%)	11 (50%)
Secondary Malignancies	6 (18%)	7 (32%)
Treatment related: infectious	3 (9%)	1 (5%)
Vascular event	2 (6%)	0 (0%)
Treatment related during allotransplant	2 (6%)	2 (9%)
Other	2 (6%)**	1 (4%)*
Unknown	2 (6%)	0

*Suicide, **acute respiratory distress, car accident,

Mantle cell Lymphoma

Onkopedia 2023



Kapitel 2

First line MCL (targeted therapy)



Five-year update of the first-line IMCL-2015 GELTAMO study. Prolonged molecular and clinical responses were observed after MRD-driven ibrutinib discontinuation

Eva Giné, Alejandro Medina Herrera, Fátima de la Cruz, Ana Jiménez Ubieto, Javier López Jimenez, Alejandro Martín, M José Terol, Eva Gonzalez Barca, María Casanova, Adolfo de la Fuente, Ana Marín Niebla, Ana Muntañola, Tomás José González-López, Marta Aymerich, Xavier Setoain, Montserrat Cortés-Romera, Amanda Rotger, Sonia Rodríguez, Ferran Nadeu, Cristina López, Sílvia Beà, Ramon García Sanz, Elias Campo, Armando López-Guillermo.

H. Clínic de Barcelona, IDIBAPS, CIBERONC; H. Clínico de Salamanca, IBMCC, IBSAL, CIBERONC ; H. Virgen del Rocío, Sevilla; H. U 12 de Octubre, Madrid; H. U. Ramón y Cajal, Madrid; H. Clínico de Salamanca, IBMCC, IBSAL, CIBERONC ; H. Clínico de Valencia, INCLIVA; H. Duran i Reynals, ICO, Hospitalet Llobregat; H. Costa del Sol, Marbella; H. MD Anderson Cancer Center, Madrid; H. U. Vall d'Hebrón, VHO; H. U. Mutua de Terrassa ; H. U. Burgos; H. Clínic de Barcelona, CIBERBBN; H. U. Bellvitge, Hospitalet de Llobregat; H. Gregorio Marañón, Madrid; H. Clínic de Barcelona, IDIBAPS, CIBERONC; H. Clínico de Salamanca, IBMCC, IBSAL, CIBERONC ; H. Clínic de Barcelona, IDIBAPS, CIBERONC, University of Barcelona.

NCT 02682641, EudraCT: 2015-004158-17

*Sponsor: Grupo Español de Linfomas y Trasplante de Médula Ósea
Janssen Clinical Investigator-Initiated Study (IIS) Research Support*

egine@clinic.cat

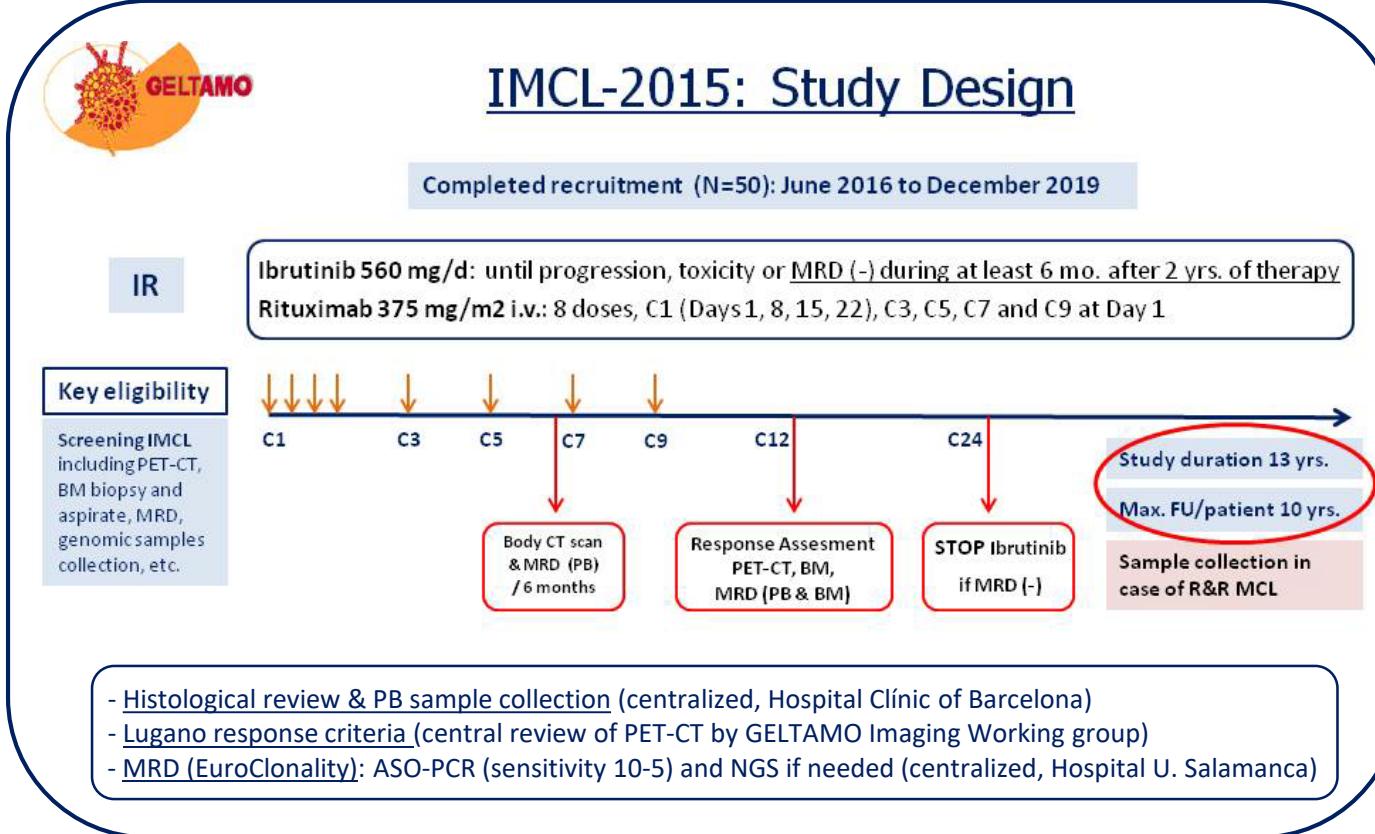
IMCL-2015

“Multicentric phase II trial to evaluate the efficacy and safety of Ibrutinib in combination with rituximab in patients with indolent clinical forms of Mantle Cell Lymphoma”

Phase II (N= 50 patients, 14 GELTAMO sites)

- Upfront Ibrutinib + Rituximab combination in IMCL
- Biological studies: IGHV mutational study, DNA copy number, WGS/WES and epigenetic studies in PB samples (and tissue when possible) before treatment and in case of relapse

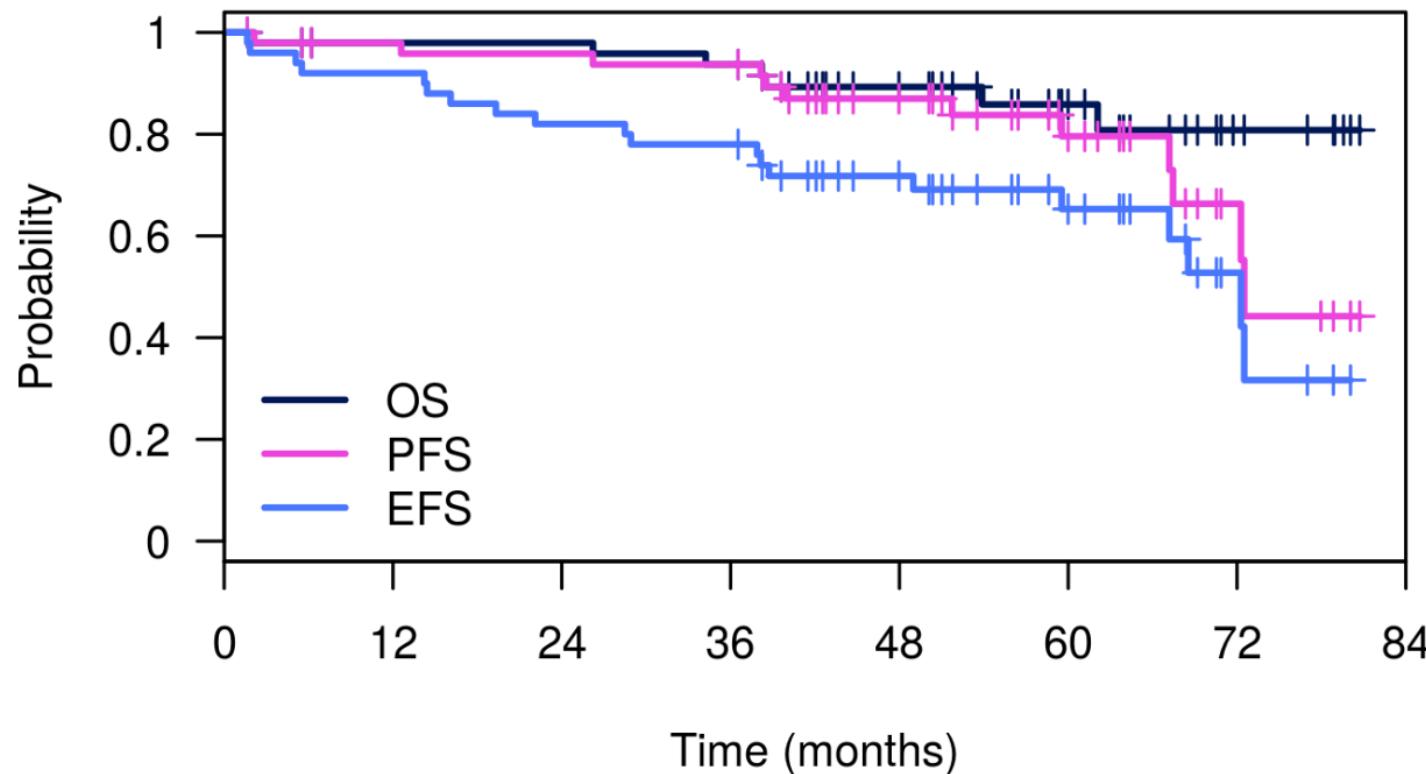
IMCL-2015: Study Design



Key inclusion and exclusion criteria:

- Asymptomatic MCL patients, no prior treatments, observation for at least 3 months
- Eligible both leukemic non nodal presentations and cases with lymph nodes < 3 cm and Ki67 < 30%
- Blastoid variants excluded

IMCL-2015: SURVIVAL



5-yr OS: 86% (CI95%: 75-97)
5-yr PFS: 80% (CI95%: 66-93)
5-yr EFS: 65% (CI95%: 50-79)

**Median PFS: 72 months
(CI 95%: 66-79)**

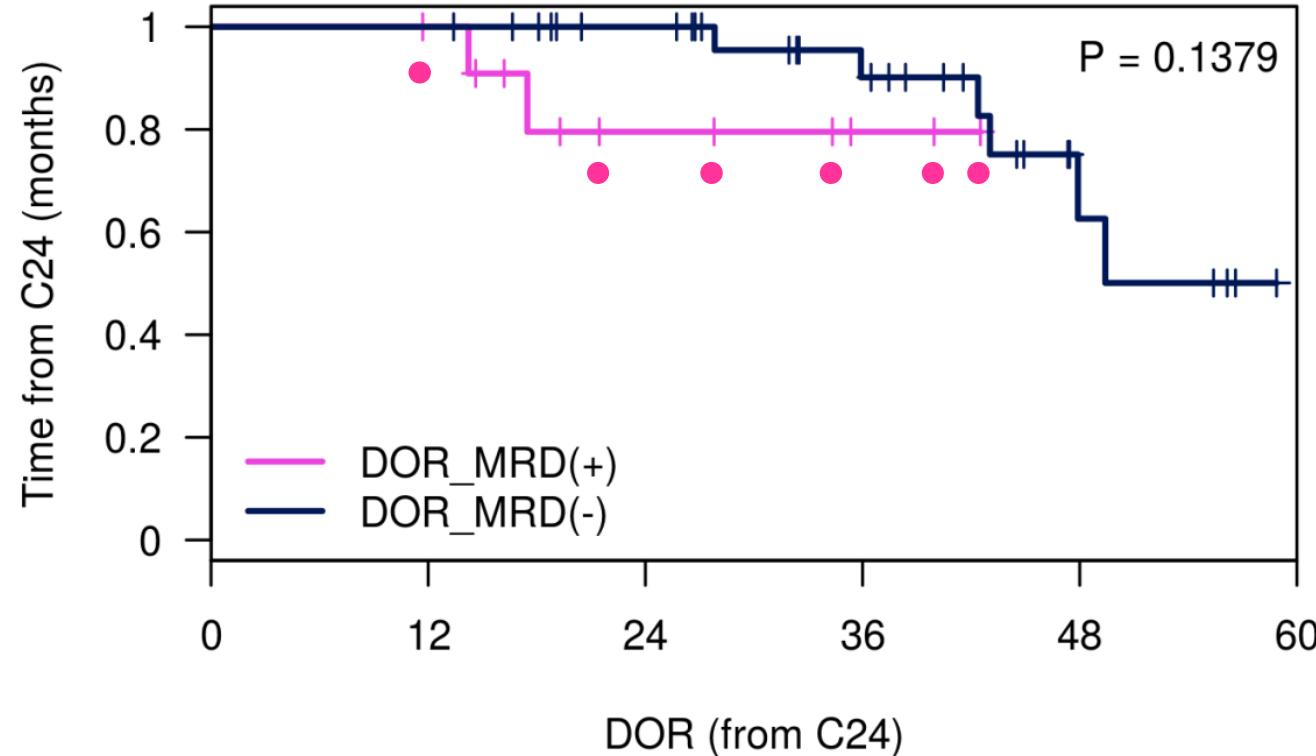
No. at risk:

OS	50	46	46	44	31	19	7	0
PFS	50	46	45	44	30	18	6	0
EFS	50	46	41	39	27	16	5	0

(Data cut-off 15 March 2023)

IMCL-2015: DOR from C24 According to MRD Status and Ibrutinib Discontinuation

DOR from C24 evaluation (n=44)



No. at risk:					
DOR_MRD(+)	12	11	5	2	0
DOR_MRD(-)	32	32	26	17	5

Medians DOR: not reached

(Data cut-off 20 March 2023)

- MRD (-) / Ibrutinib discontinuation (n=32)
 - Progression (n=6)
- MRD (+) / Ibrutinib ongoing (n=12)
 - Progression (n=2)

- MRD (-): 20 /32 (63%) patients continue MRD (-) at last control

- MRD(+): 6/12 (50%) patients continue on Ibrutinib

● Ibrutinib ongoing

Kapitel 3

Relapsed high risk MCL (p53)

Outcomes of autologous transplant, allogeneic transplant, and CAR T cell therapy in *TP53* altered mantle cell lymphoma: a multi-institution retrospective analysis

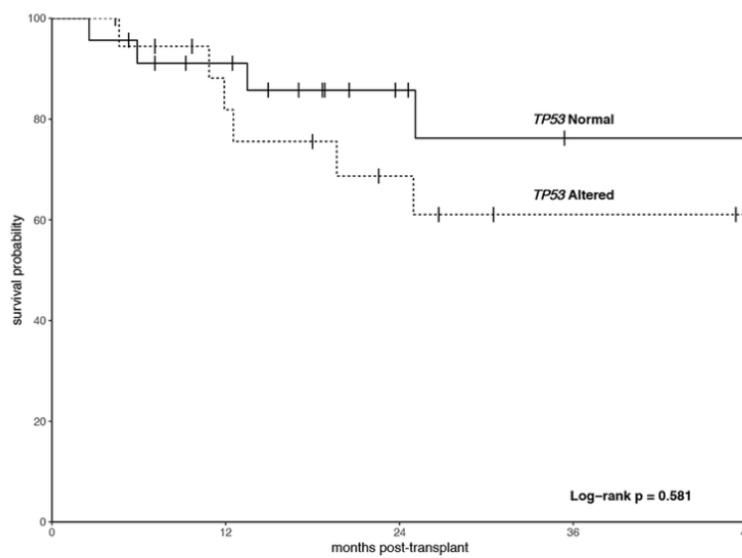
M. Messmer¹, A. Stack¹, M. Deng², E. Handorf², N. Kapoor³, Y. Sawalha³, A. M. Bock⁴, Y. Wang⁴, K. Graf⁵, B. Greenwell⁵, J. Cleveland⁶, R. Advani⁶, D. Adrianzen Herrera⁷, E. Cai⁸, M. Spinner⁸, A. Hassan⁹, S. Rajguru⁹, M. S. Phillips¹⁰, S. D. Smith¹⁰, T. Brooks¹¹, D. Bond¹³, B. Hill¹¹, J. Murphy¹², N. Wagner-Johnston¹², M. Zahid¹³, F. T. Awan¹³, P. Ramakrishnan Geethakumari¹³, W. Tompkins¹⁴, S. Deshpande¹⁴, J. Svoboda¹⁴, C. Ryu¹⁵, J. Amengual¹⁵, J. Anna¹⁶, M. Kamdar¹⁶, K. Goparaju¹⁷, J. Martin¹⁷, M. Burkart¹⁸, R. Karmali¹⁸, A. Khan¹⁹, D. Modi¹⁹, M. Nickel²⁰, B. Hambley²⁰, K. Baron²¹, H. Shah²¹, D. Wallace²², J. W. Friedberg²², C. Hannah²³, V. Bachanova²³, N. Ghosh²⁴, S. Park²⁴, K. David²⁵, J. Darrah²⁶, R. I. Fisher²⁷, N. Khan²⁸

¹ Fox Chase Cancer Center, Hematology/Oncology, Philadelphia, PA, United States of America, ² Fox Chase Cancer Center, Biostatistics, Philadelphia, PA, United States of America, ³ Ohio State University, Columbus, OH, United States of America, ⁴ Mayo Clinic, Rochester, MN, United States of America, ⁵ Medical University of South Carolina, Charleston, SC, United States of America, ⁶ Stanford University, Palo Alto, CA, United States of America, ⁷ University of Vermont, Burlington, VT, United States of America, ⁸ University of California, San Francisco, San Francisco, CA, United States of America, ⁹ University of Wisconsin, Madison, WI, United States of America, ¹⁰ Fred Hutchinson Cancer Center, Seattle, WA, United States of America, ¹¹ Cleveland Clinic, Cleveland, OH, United States of America, ¹² Johns Hopkins University, Baltimore, MD, United States of America, ¹³ Harold C. Simmons Comprehensive Cancer Center, UT Southwestern Medical Center, Dallas, TX, United States of America, ¹⁴ University of Pennsylvania, Philadelphia, PA, United States of America, ¹⁵ Columbia University, New York, NY, United States of America, ¹⁶ University of Colorado, Aurora, CO, United States of America, ¹⁷ University Hospitals, Cleveland, OH, United States of America, ¹⁸ Northwestern University, Chicago, IL, United States of America, ¹⁹ Karmanos Cancer Center, Detroit, MI, United States of America, ²⁰ University of Cincinnati, Cincinnati, OH, United States of America, ²¹ University of Utah, Salt Lake City, UT, United States of America, ²² Wilmot Cancer Institute, University of Rochester, Rochester, NY, United States of America, ²³ University of Minnesota, Minneapolis, MN, United States of America, ²⁴ Levine Cancer Institute, Charlotte, NC, United States of America, ²⁵ Rutgers University, New Brunswick, NJ, United States of America, ²⁶ Cedars-Sinai Cancer Center, Los Angeles, CA, United States of America, ²⁷ Independent Consultant, Chicago, IL, United States of America, ²⁸ Swedish Cancer Institute, Seattle, WA, United States of America

Alternative Approaches

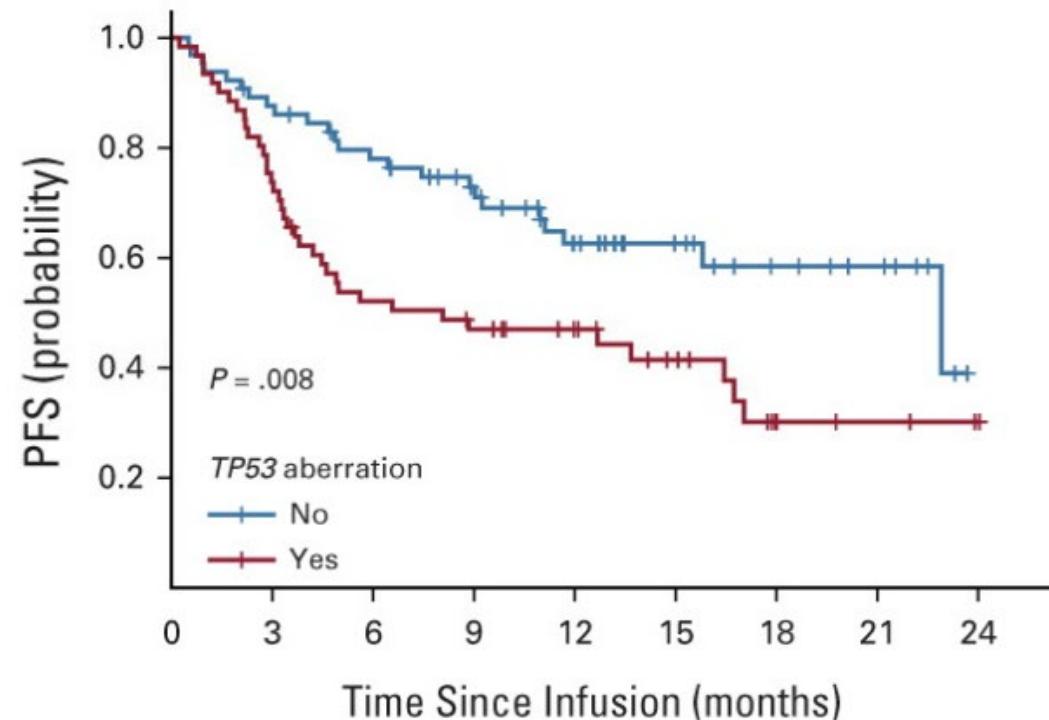
Allo-HCT

- *TP53* alteration did not affect PFS or OS after allo-HCT in small single-institution study (Lin et al. Br J Haematol 2019)
- High morbidity and mortality – 20% 2-year non-relapse mortality



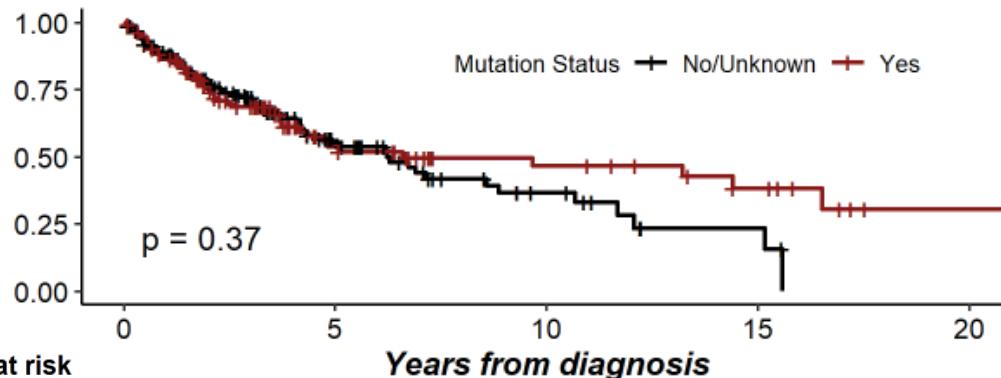
CAR-T

- In Zuma-2, 2/6 patients with *TP53* mutation with ongoing response at updated analysis (Wang M et al. JCO 2023)
- *TP53* aberration (n = 61) associated with inferior PFS after Brexucabtagene Autoleucel in standard of care practice (Wang Y et al. JCO 2023)

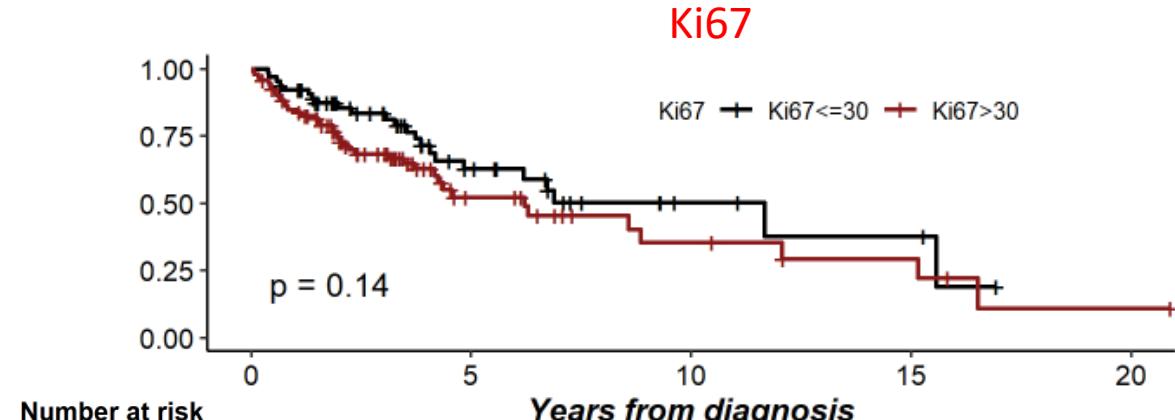


Overall Survival – By Subgroup (n=254)

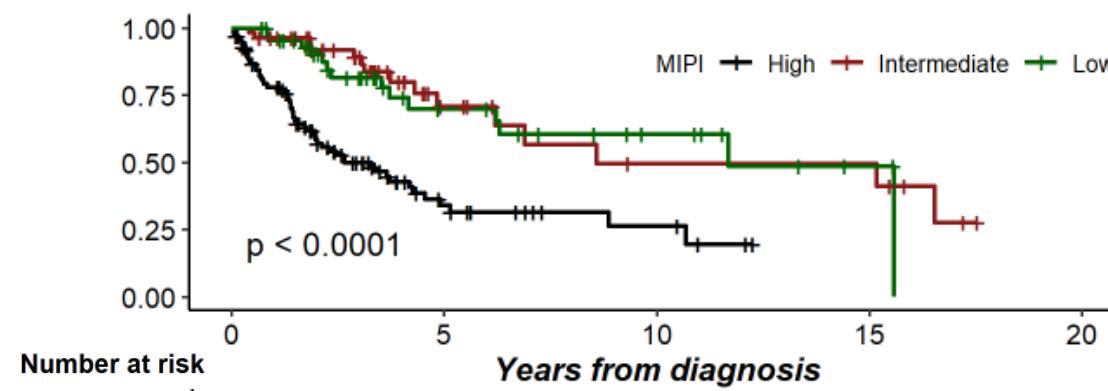
TP53 Mutated vs Other Alteration



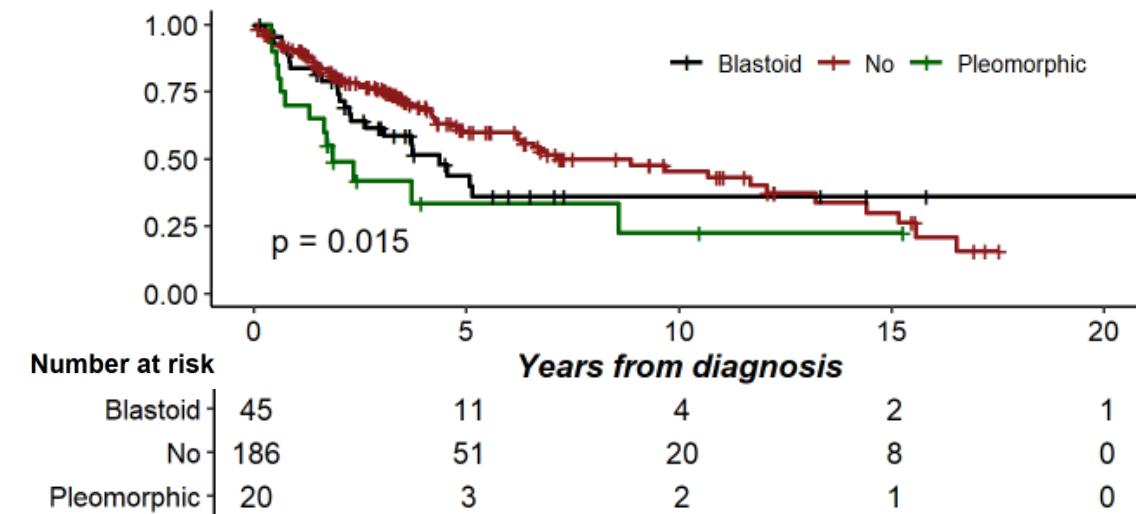
Ki67



MIPI Category



Blastoid or Pleomorphic

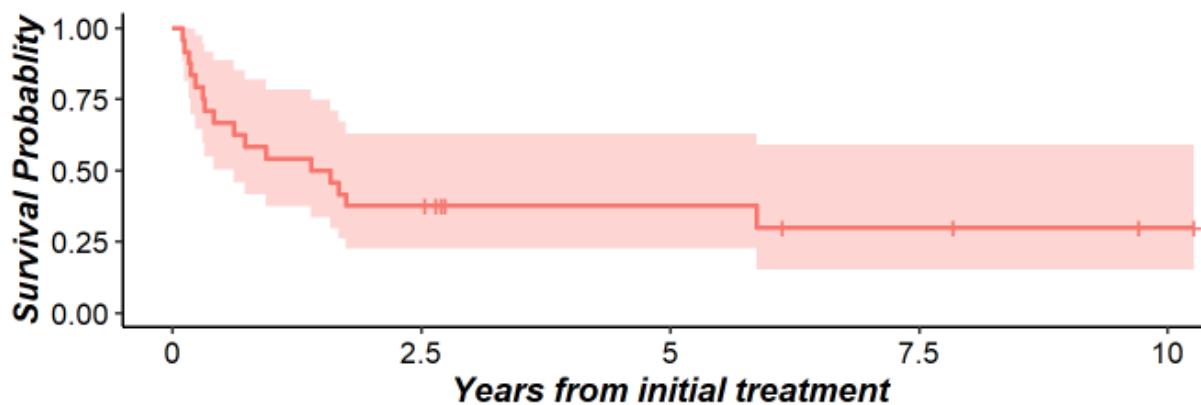


Allo-HCT

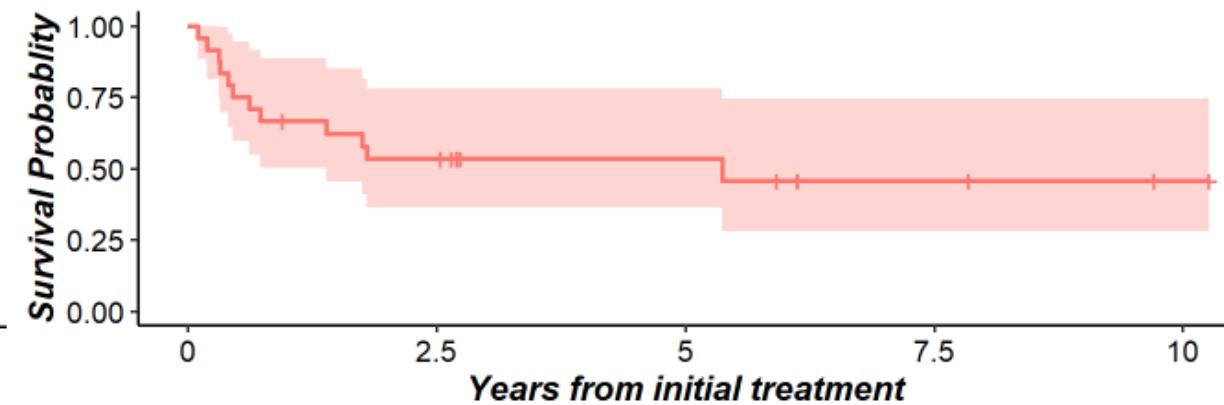
- 26 of 254 underwent allo-HCT
- 24 had confirmed *TP53* alteration prior to allo-HCT
- Median EFS 1.5 years (95% CI, 0.6 to NE)
- Median OS 5.4 years (95% CI, 1.4 to NE)
- 12 month non-relapse mortality – 17%

Lines of prior therapy, median (range)	2 (1-5)
Prior BTK inhibitor, No. (%)	11 (46)
Prior CAR-T	4 (17)
Matched	17 (74)
Related	12 (50)
Peripheral collection	16 (70)
Myeloablative conditioning	6 (25)
Post-transplant cyclophosphamide	11 (46)
Antithymocyte globulin	3 (13)

Event Free Survival



Overall Survival

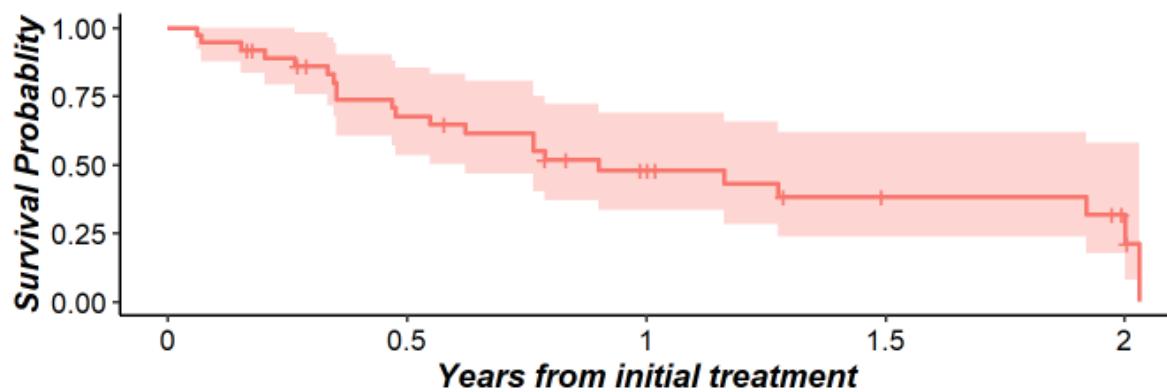


CAR-T

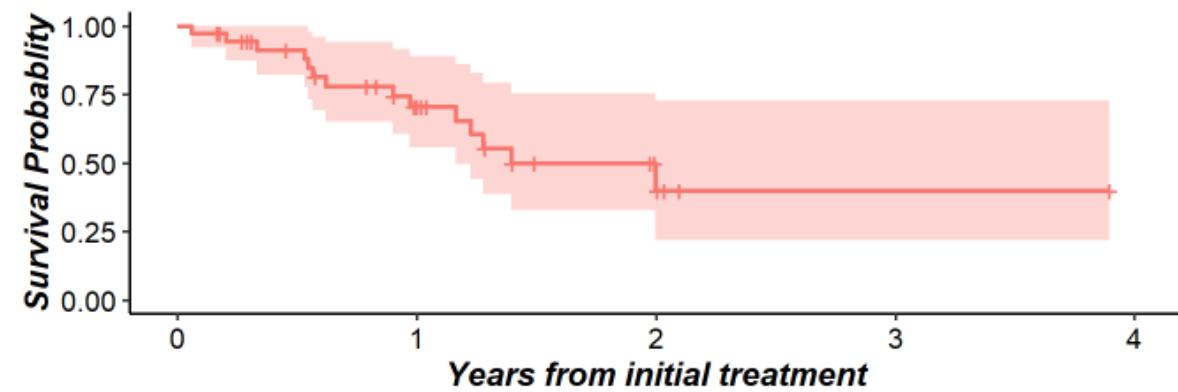
- 43 of 254 underwent CAR-T therapy
- 37 had confirmed *TP53* alteration prior to CAR-T
- Overall response 97%, Complete response 83%
- Median EFS 0.9 years (95% CI, 0.6 to NE)
- Median OS 1.4 years (95% CI, 1.4 to NE)
- 12 month non-relapse mortality – 8%

Lines of prior therapy, median (range)	3 (1-6)
Prior BTK inhibitor, No. (%)	34 (92)
Prior bendamustine, No. (%)	18 (49)
Prior allo-HCT	1 (3)
Bridging therapy	31 (84)

Event Free Survival



Overall Survival



Number at risk

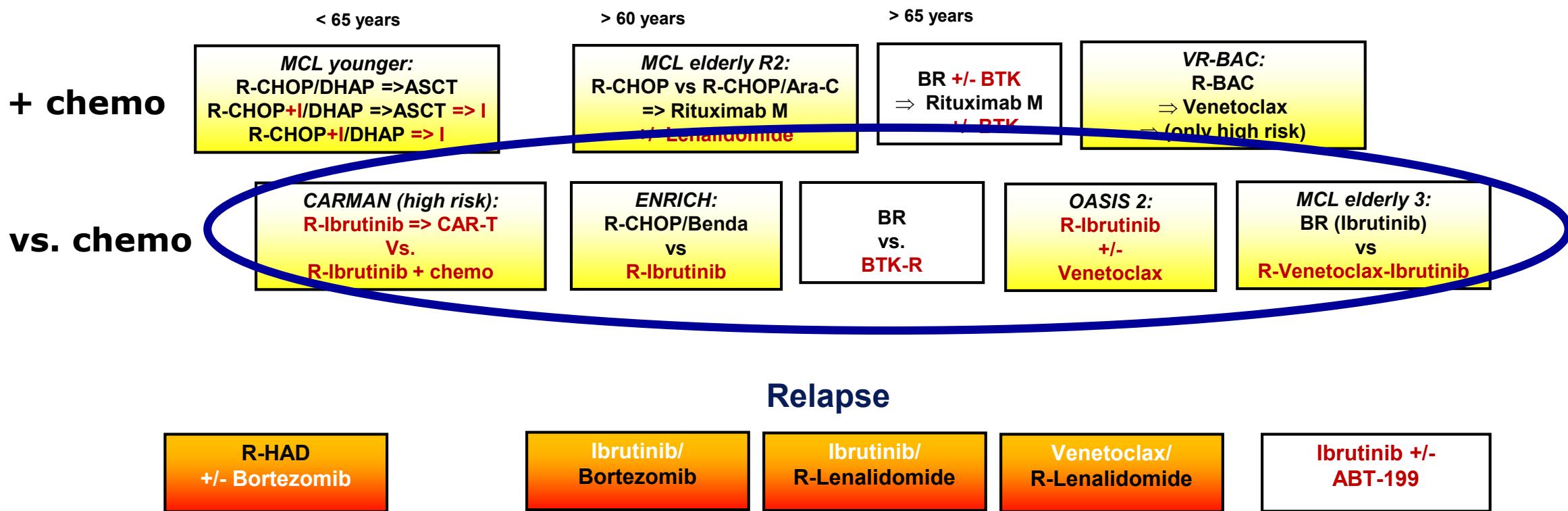
Strata	All	37	22	12	6	3

Number at risk

Strata	All	37	17	4	1	0

European MCL Network

Study generation 2023





TRIANGLE: 23rd annual meeting in Sevilla 2022

LMU KLINIKUM



Die Kurzpräsentationen sind online unter

www.lymphome.de/icml2023

Für den Inhalt verantwortlich:

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Klinikum der Universität München



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Das Informationsprojekt wird unterstützt von den Firmen



Diese hatten keinen Einfluss auf die Inhalte.