

LA RIVOLUZIONE NEL MONDO DEL LINFOMA MANTELLARE!

Milano, Hilton Milan Hotel
27 gennaio 2025

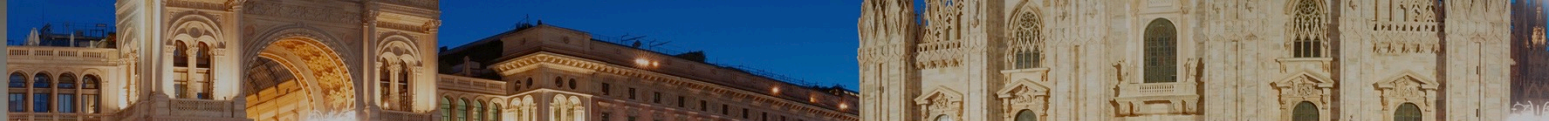
Responsabili Scientifici
Paolo Corradini, Pier Luigi Zinzani

Risultati del trapianto autologo nel giovane

Maurizio Martelli

Ematologia Univ. Sapienza Roma





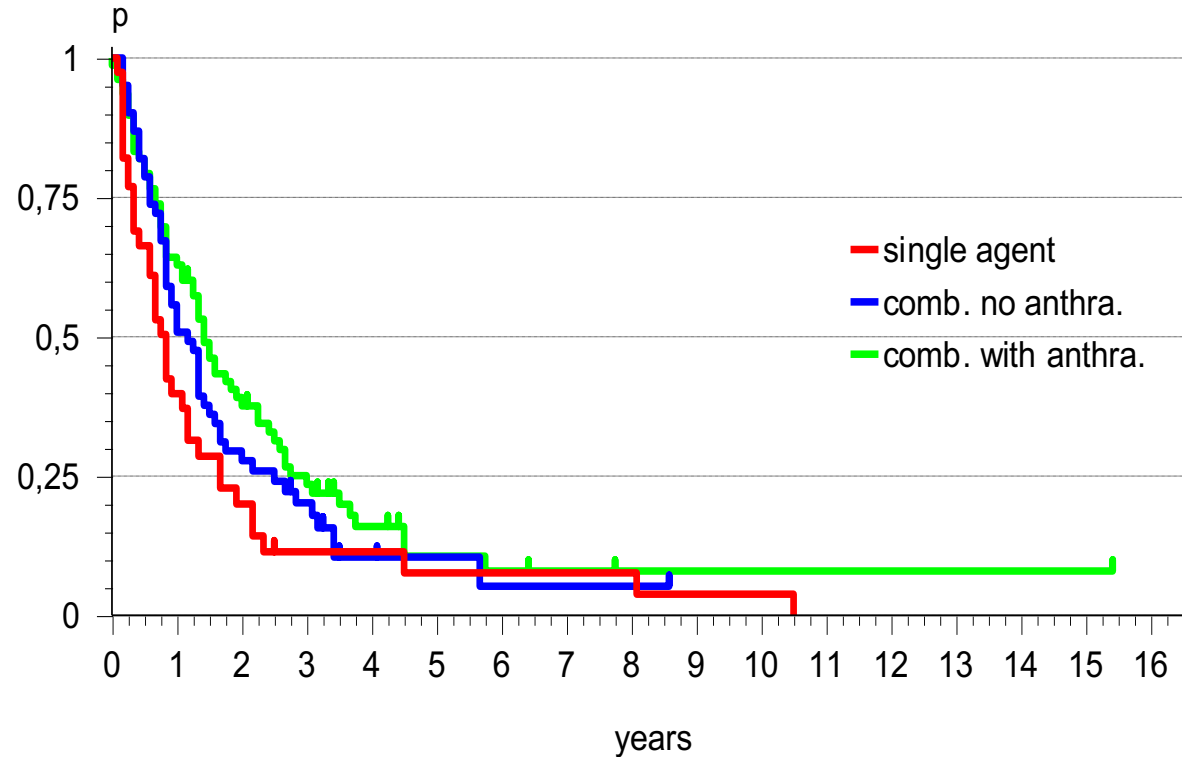
Disclosures of Maurizio Martelli

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
Roche					X	X	
Gilead					X	X	
Novartis						X	
Takeda						X	
Eusapharma					X	X	
Incyte					X	X	
Janssen					X	X	
BMS						X	
Beigene					X	X	
Alexion	x						

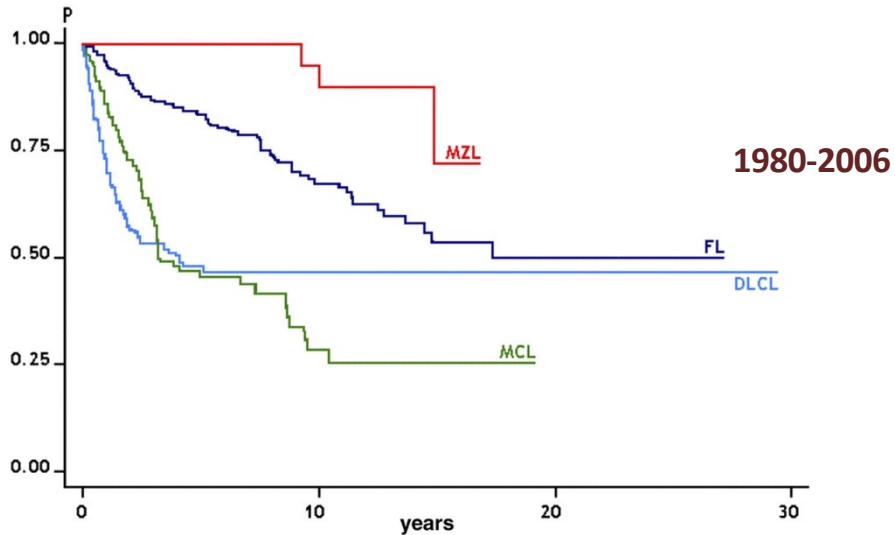
Multicenter Evaluation of MCL

Annency Criteria fulfilled

event free interval after chemotherapy in stages III + IV



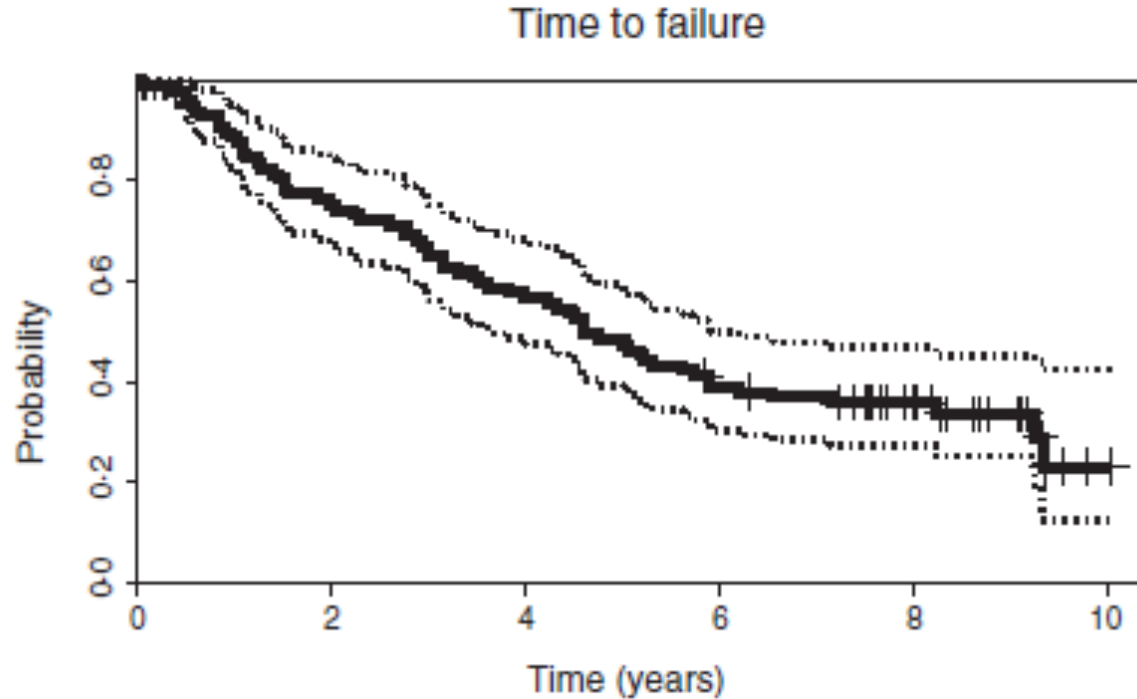
Cause-specific survival of the main B-cell lymphoma subtypes



Significant improvement in OS in the last 10 years:

- 1) introduction of dose-intensive strategies upfront in younger patients
- 2) availability of novel agents in older patients or in the r/r setting.

Regimens not including ASCT R-HyperCVAD+MTX-Ara-C



<65 , 65 pts: 8-year TTF 46%
>65 , 32 pts: 8-year TTF 16%



Treatment of Older Patients with Mantle-Cell Lymphoma

H.C. Klün-Nelmsars, E. Hoster, O. Hermine, J. Walewski, M. Trnky, C.H. Geisler, S. Stöberbauer, C. Thieblemont, U. Velling-Kaiser, J.K. Doodrijn, B. Coiffier, R.

Forstpointner, et al.

N Engl J Med 2012; 367:520-531

June, 2012



September, 2017



ORIGINAL ARTICLE

Rituximab after Autologous Stem-Cell Transplantation in Mantle-Cell Lymphoma

Steven Le Coull, M.D., Ph.D., Catherine Thieblemont, M.D., Ph.D., Lucie Oberic, M.D., Anne Moreau, M.D., Krmo Bouabdallah, M.D., Caroline Dantigas, M.D., Gandhi Damaj, M.D., Ph.D., Thomas Gastinne, M.D., Vincent Ribrag, M.D., Ph.D., Pierre Feugier, M.D., Ph.D., Olivier Casasnovas, M.D., Hacène Zerzahi, M.D., et al., for the LYSA Group¹

N Engl J Med 2017; 377:1250-1260

Addition of high-dose cytarabine to immunochemotherapy before autologous stem-cell transplantation in patients aged 65 years or younger with mantle cell lymphoma (MCL Younger): a randomised, open-label, phase 3 trial of the European Mantle Cell Lymphoma Network

Olivier Hermine¹, Eva Hoster², Jan Walewski, André Boudry, Stephan Stöberbauer, Catherine Thieblemont, Michal Szymczyk, Rada Bouabdallah, Michael Knafl, Michael Hallek, Gilles Salles, Pierre Feugier, Vincent Ribrag, Josef Birkmann, Rowanthe Forstpointner, Colette Haissan, Mathias Hänel, René Olivier Casasnovas, Jürgen Finke, Norma Peter, Kamel Bouabdallah, Catherine Seliban, Thomas Fischer, Ulrich Dührsen, Bernd Metzner, Georg Maschmeyer, Lothar Kanz, Christian Schmidt, Richard Delencq, Nicole Brousse, Wolfram Klapper, Elizabeth Macintyre, Marie-Hélène Defju-Larue, Christiane Pott, Wolfgang Heldmann, Michael Linkehub, Martin Dreyling, on behalf of the European Mantle Cell Lymphoma Network

The Lancet. VOLUME 388, ISSUE 10044, P565-575, AUGUST 06, 2016

June, 2016



Ibrutinib plus Bendamustine and Rituximab in Untreated Mantle-Cell Lymphoma

Michael L. Wang, M.D., Wojciech Jurczak, M.D., Ph.D., Mats Jerleman, M.D., Ph.D., Judith Trotman, F.R.A.C.P., Pier L. Zinzani, M.D., Ph.D., David Belada, M.D., Ph.D., Carlo Boccornini, M.D., Ian W. Flinn, M.D., Ph.D., Pratyush Giri, F.R.A.C.P., Andre Coy, M.D., Paul A. Hamlin, M.D., Olivier Hermine, M.D., Ph.D., et al., for the SHINE Investigators¹

June 30, 2022
N Engl J Med 2022; 386:2482-2494
DOI: 10.1056/NEJMoa2201817

January, 2022

January, 2020

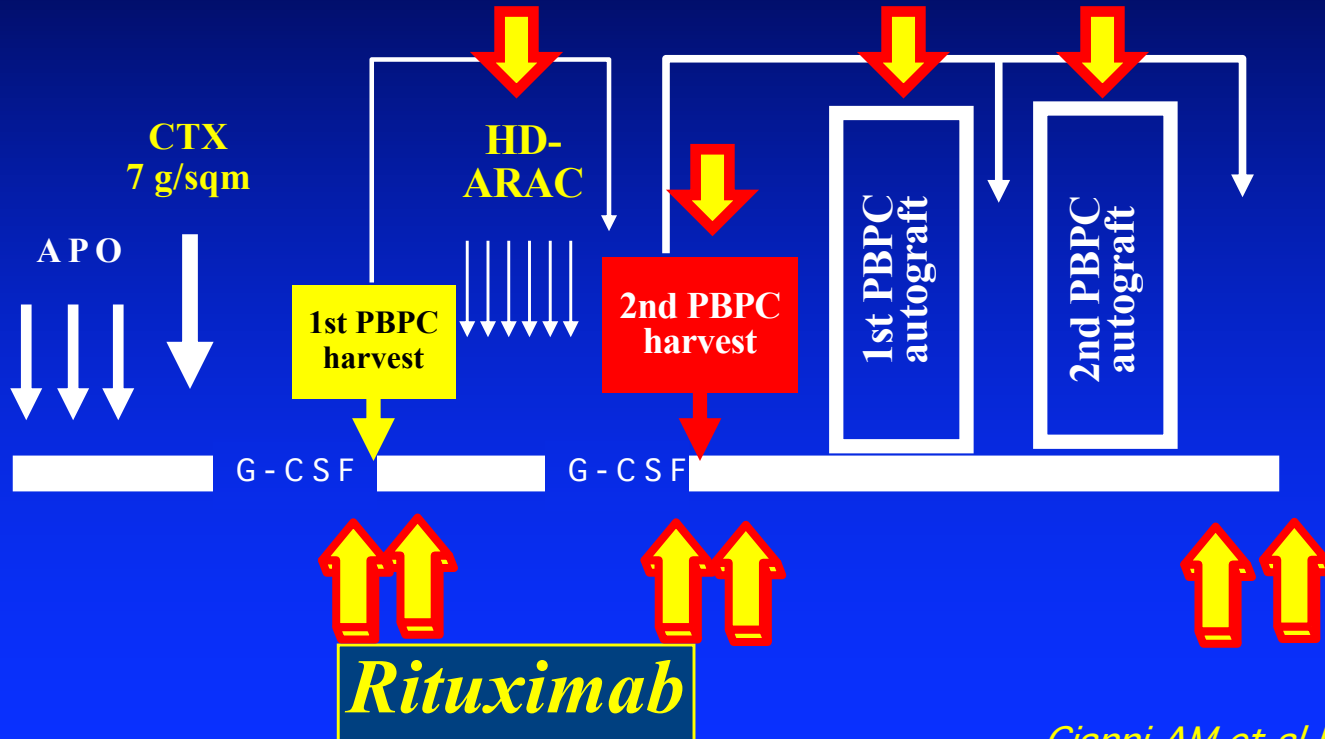
Lenalidomide maintenance after autologous haematopoietic stem-cell transplantation in mantle cell lymphoma: results of a Fondazione Italiana Linfomi (FIL) multicentre, randomised, phase 3 trial

Marco Ladetto¹, Sergio Cartelazzo², Simone Ferrero, Andrea Evangelista, Michael Mian, Rita Tavarozzi, Manuela Zanni, Federica Cavallo, Alice Di Rocco, Vittorio Stefani, Chiara Paganò, Alessandro Re, Annalisa Chiappella, Monica Balzarotti, Vittorio R. Zilioli, Maria Gomes da Silva, Luca Arcaini, Anna I. Molinari, Filippo Ballerini, Andrés J. M. Ferreri, Benedetta Puccini, Fabio Benedetti, Piero M. Stefani, Franco Nanni, Ivana Casaroli, Caterina Steltziano, Giovannino Ciccone, Umberto Vitalo, Maurizio Martelli

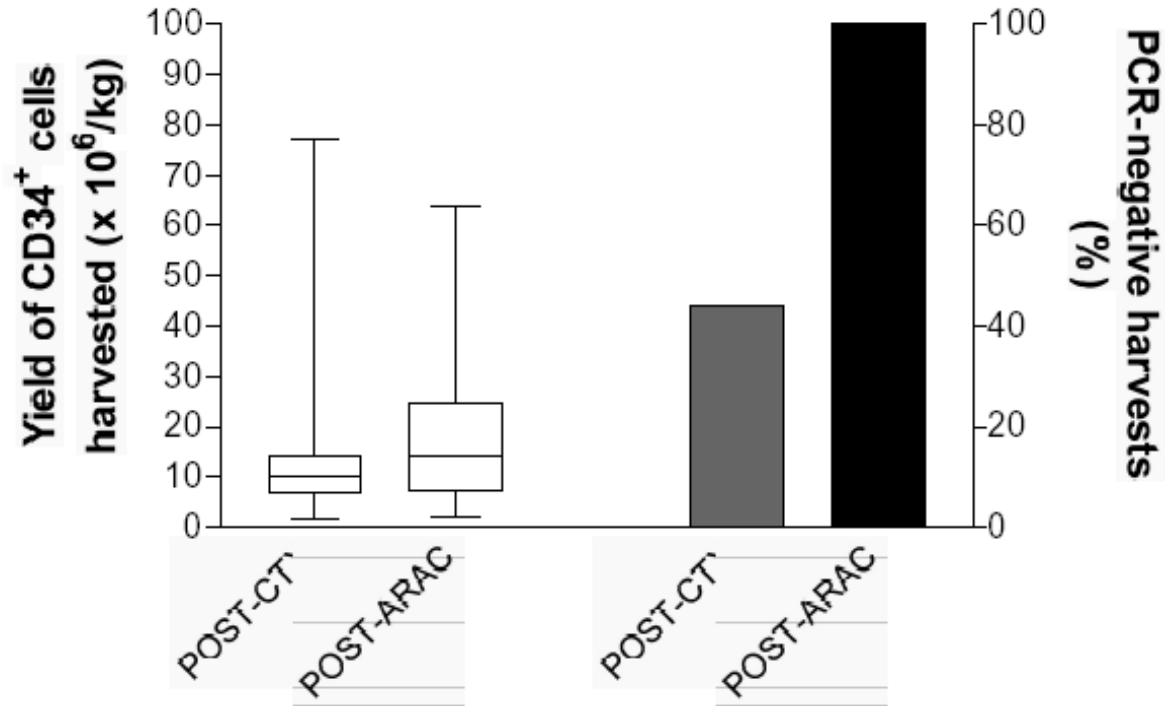
The Lancet Haematology.VOLUME 8, ISSUE 1, E34-E44, JANUARY 01, 2021



Modified HDS with rituximab (R-HDS) given prior to PBC collections for MCL



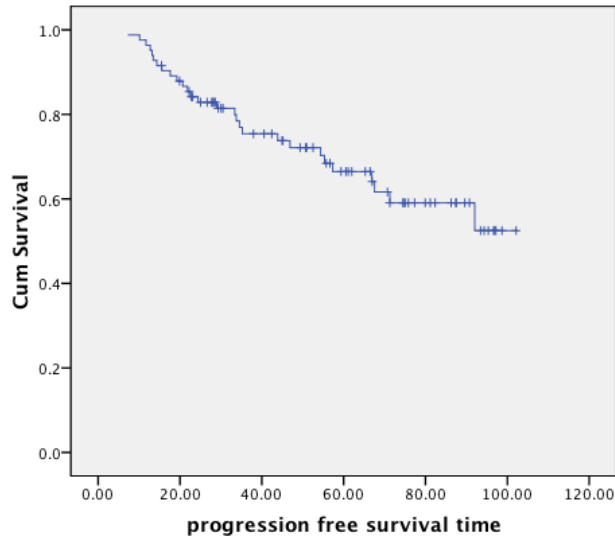
Quantity and quality of PBPC harvests after CT and AraC + Rituximab



Update of 83 MCL Patients Treated with R-HDS (Median follow-up 44 months, range 3-96 months)

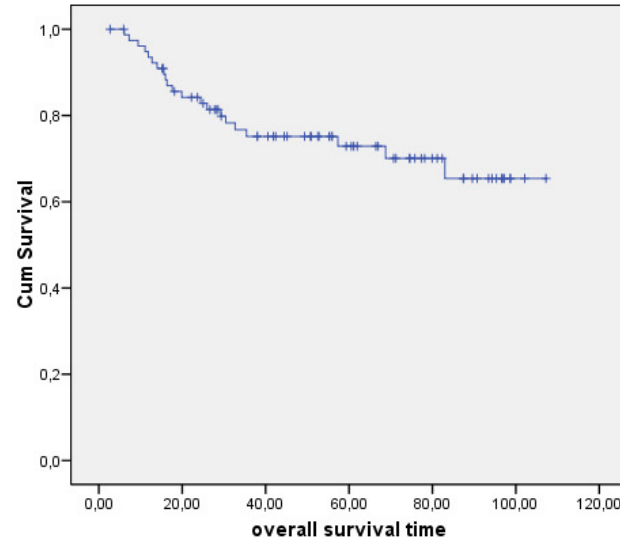
ORR= 100% CR= 94% PR= 6%

Survival Function



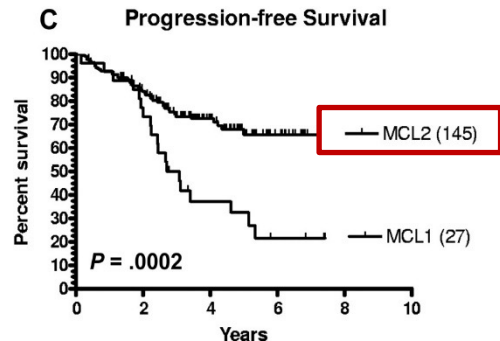
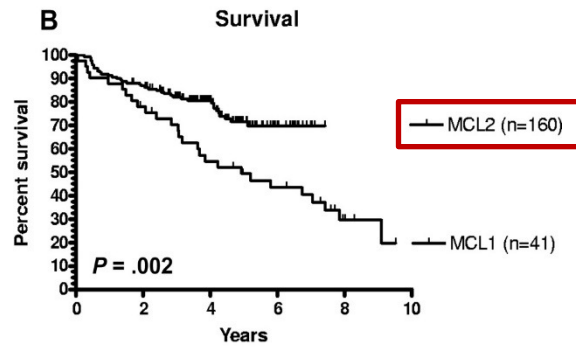
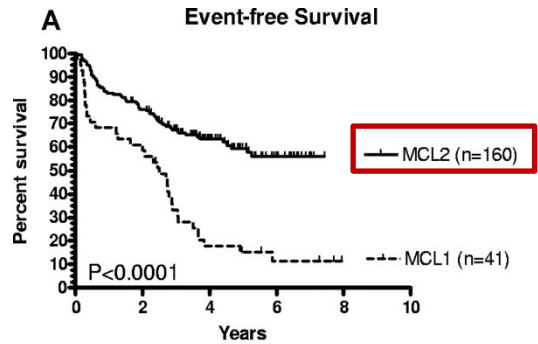
PFS at 2 yrs 84.4%; at 5yrs 66.3%

Survival Function



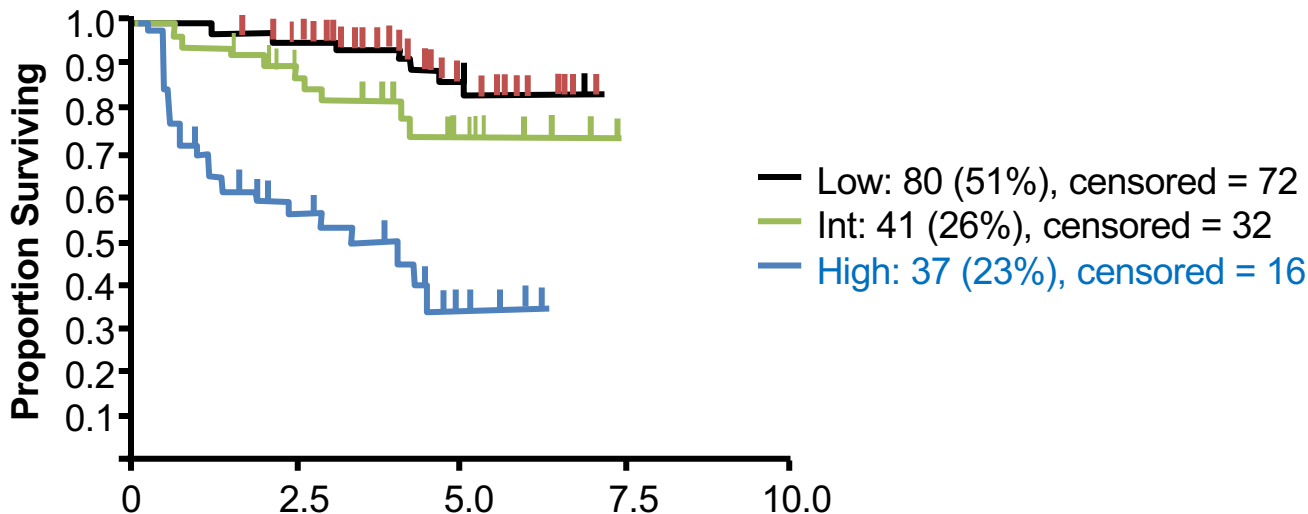
OS at 5 yrs 73%

Nordic Lymphoma Study Group MCL1 vs MCL2



	No Ara-C	R-Ara-C
NORDIC MCL PROTOCOL #	MCL1 (1996-2000) (-CHOP⇒ASCT)	MCL2 (2000-2006)
Number of cases included	41	160
ORR pre-transplant	76%	96%
CR/CRu pre-transplant	27%	54%

Nordic Group: Survival of MCL 2 by MIPI (N = 158)





Addition of high-dose cytarabine to immunochemotherapy before autologous stem-cell transplantation in patients aged 65 years or younger with mantle cell lymphoma (MCL Younger): a randomised, open-label, phase 3 trial of the European Mantle Cell Lymphoma Network

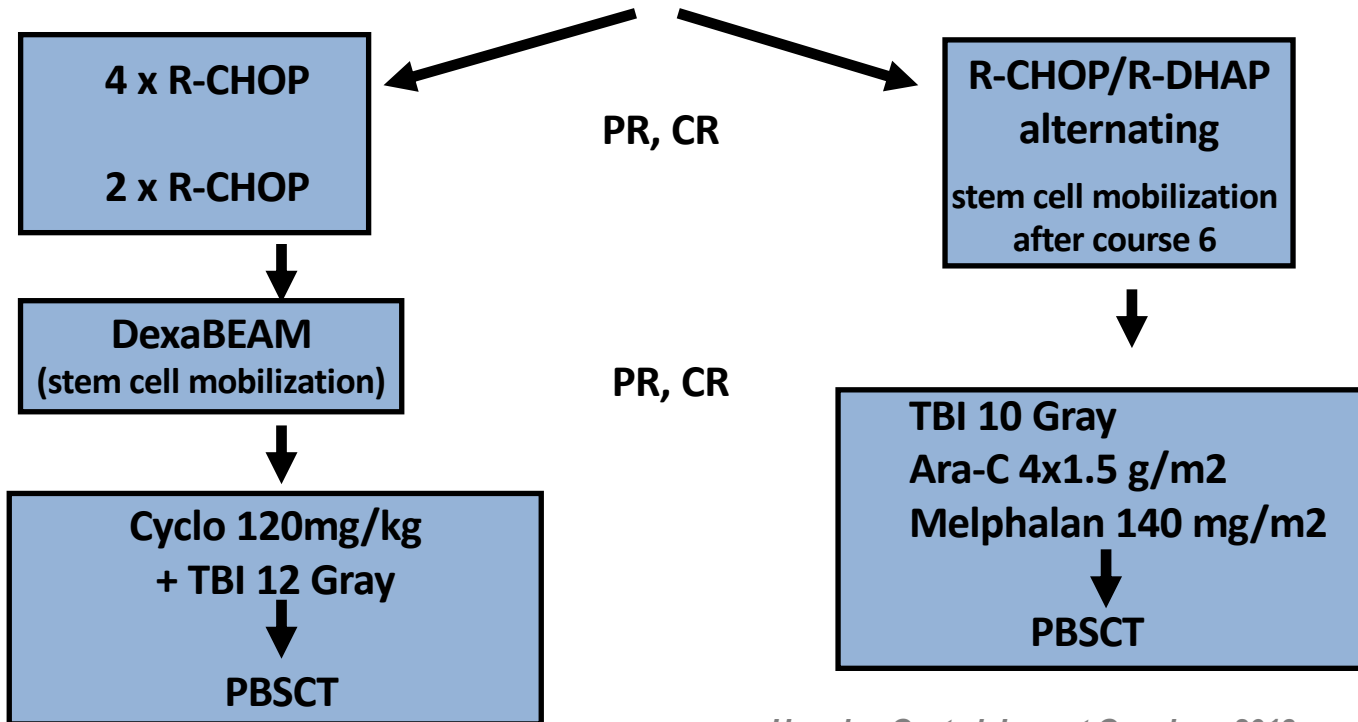


Olivier Hermine, Eva Hoster*, Jan Walewski, André Bosly, Stephan Stilgenbauer, Catherine Thieblemont, Michal Szymczyk, Reda Bouabdallah, Michael Kneba, Michael Hallek, Gilles Salles, Pierre Feugier, Vincent Ribrag, Josef Birkmann, Roswitha Forstpointner, Corinne Haioun, Mathias Hänel, René Olivier Casasnovas, Jürgen Finke, Norma Peter, Kamal Bouabdallah, Catherine Sebban, Thomas Fischer, Ulrich Dührsen, Bernd Metzner, Georg Maschmeyer, Lothar Kanz, Christian Schmidt, Richard Delarue, Nicole Brousse, Wolfram Klapper, Elizabeth Macintyre, Marie-Hélène Delfau-Larue, Christiane Pott, Wolfgang Hiddemann, Michael Unterhalt, Martin Dreyling, on behalf of the European Mantle Cell Lymphoma Network*



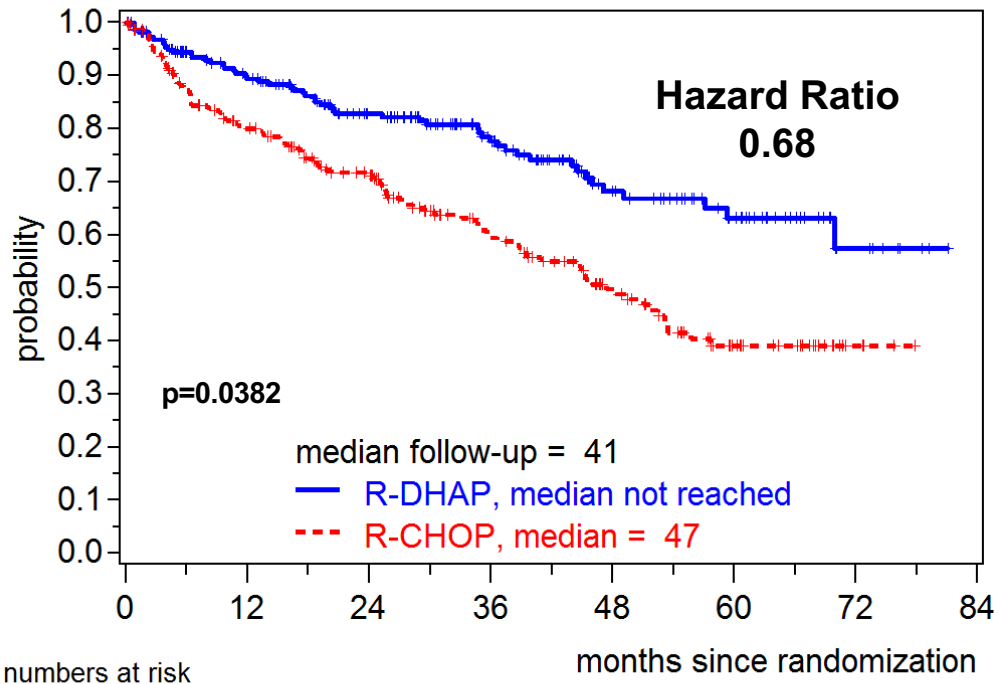
Intensive schemes including ASCT

MCL Network younger Trial



Intensive schemes including ASCT

MCL Network younger Trial

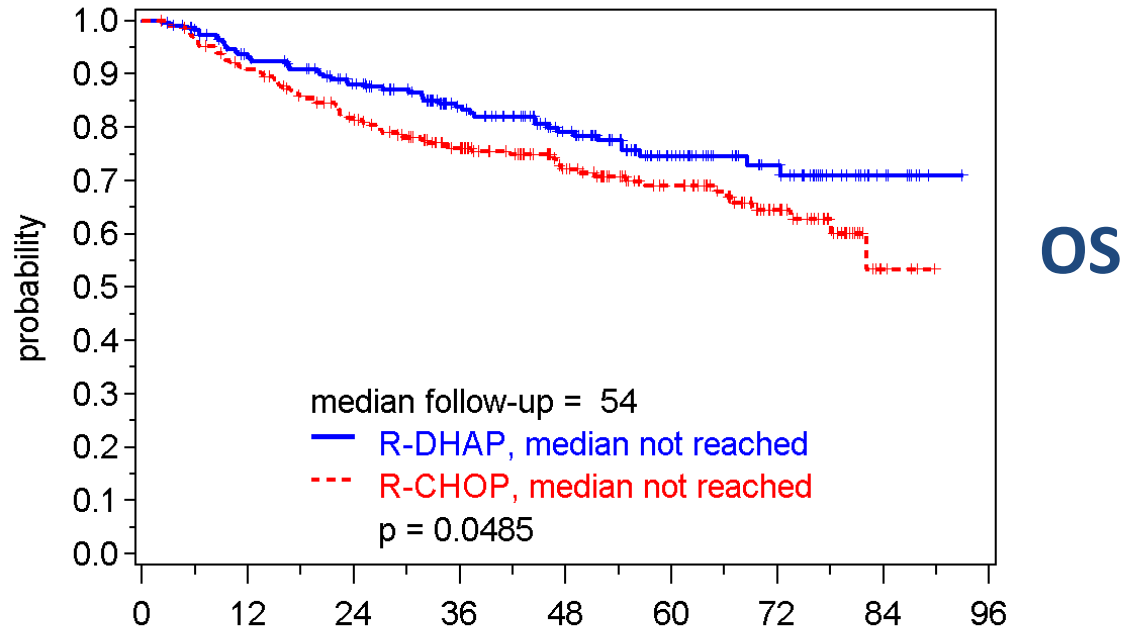


PFS

	0	12	24	36	48	60	72	84
numbers at risk								
R-DHAP	223	175	136	96	51	32	8	0
R-CHOP	227	163	125	82	53	26	4	0

Intensive schemes including ASCT

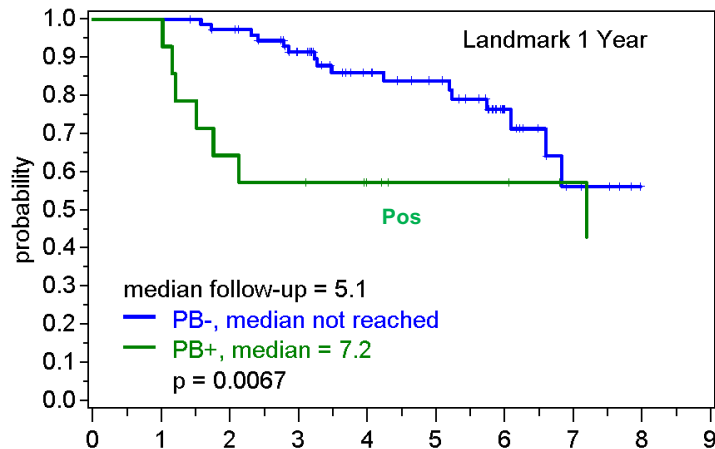
MCL Network younger Trial



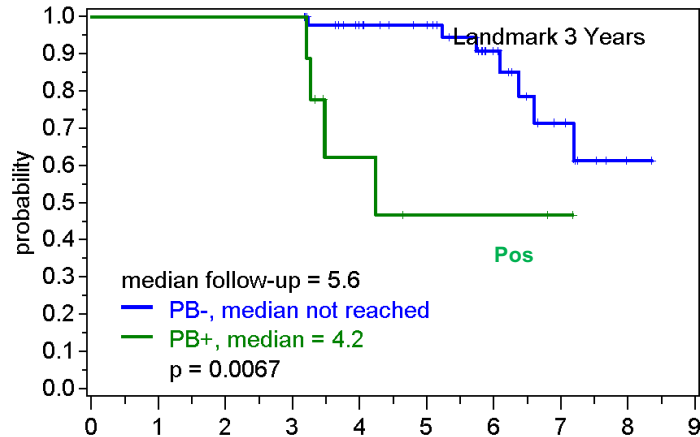
	numbers at risk								
	0	12	24	36	48	60	72	84	96
R-DHAP	232	204	182	139	104	64	39	9	0
R-CHOP	233	207	177	145	104	76	42	4	0

MRD Landmark analyses for PFS in remission

After R-CHOP/R-DHAP/ASCT younger



Numbers At Risk	0	1	2	3	4	5	6	7	8	9
PB-	74	70	57	42	36	16	6	0		
PB+	14	9	8	5	3		1	0		



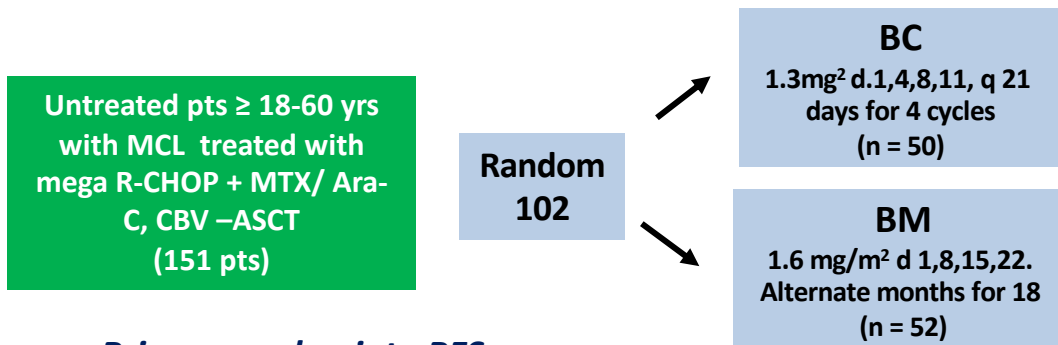
Numbers At Risk	0	1	2	3	4	5	6	7	8	9
PB-	47			38	33	17	8	1	0	
PB+	9			4	2		1	0		

Achievement and preservation of MRD response is a strong independent predictor of prognosis in MCL and correlates significantly with long-term survival

Cox regression: independent of MIPI, trial and treatment arm

Bortezomib maintenance (BM) versus Consolidation (BC) after induction therapy and ASCT in younger MCL: CALGB (Alliance 50403)

- Multicenter, prospective randomized phase II study



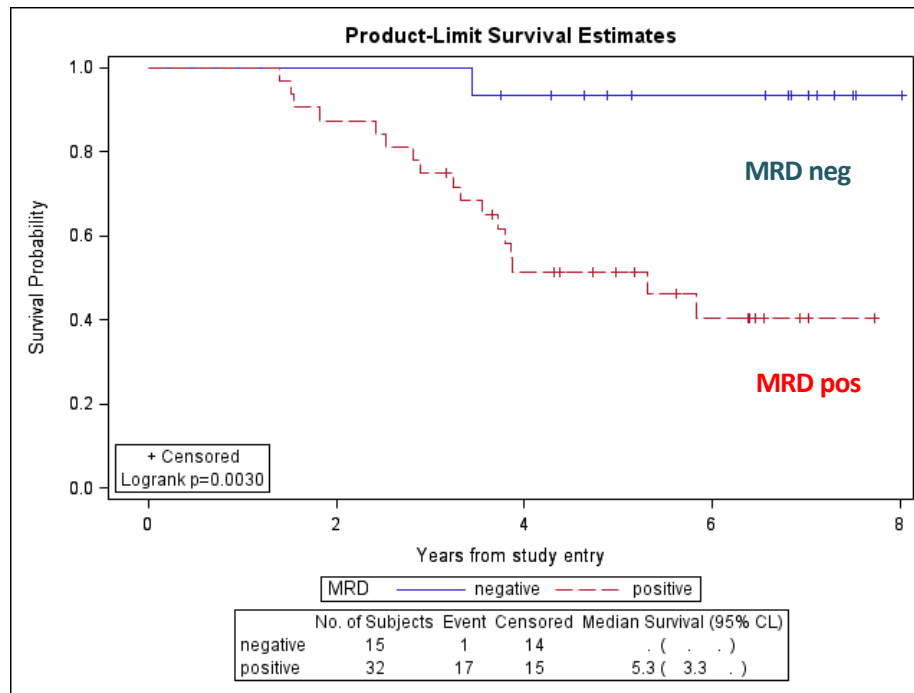
- Primary end point : PFS

	BM (52)	BM (52)	BC (50)	BC (50)	Tot (102)	
Transplant	Pre %	Post %	Pre %	Post %	Pre %	Post %
CR+PR	63.5	82.7	52.0	82.0	57.8	81.4

	BM	BC
6 yrs PFS	58 %	64 %

	50403	59909	P value
5 yrs PFS	64 %	52 %	0.0026

Bortezomib maintenance (BM) versus Consolidation (BC) after induction therapy and ASCT in younger MCL: CALGB (Alliance 50403)



MRD negative is associate with an improved PFS

Young patient (≤ 65)	Elderly patient (> 65) First line treatment	Compromised patient
<p>Dose-intensified Immuno-chemotherapy R-CHOP + R-high dose Ara-C (alternating or sequential) =>ASCT</p>	<p>Conventional Immuno-chemotherapy (e.g. R-CHOP, BR) ↓ Rituximab maintenance radioimmunotherapy</p>	<p>Watch and wait ? R-Chlorambucil BR</p>

1. Relapse

<p>High tumour load: Immuno-chemotherapy (e.g. BR, R-DHAP) ↓ Allo-transplant Radioimmunotherapy Rituximab maintenance</p>	<p>Immuno-chemotherapy (e.g. BR, R-FC) Targeted approaches ↓ ASCT Radioimmunotherapy Rituximab maintenance</p>	<p>Immuno-chemotherapy (e.g. BR) Targeted approaches</p>
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Higher relapse

<p>Targeted approaches: Temsirolimus, Bortezomib*, Ibrutinib, Lenalidomide* (preferable in combination) Repeat previous therapy (long remissions)</p>

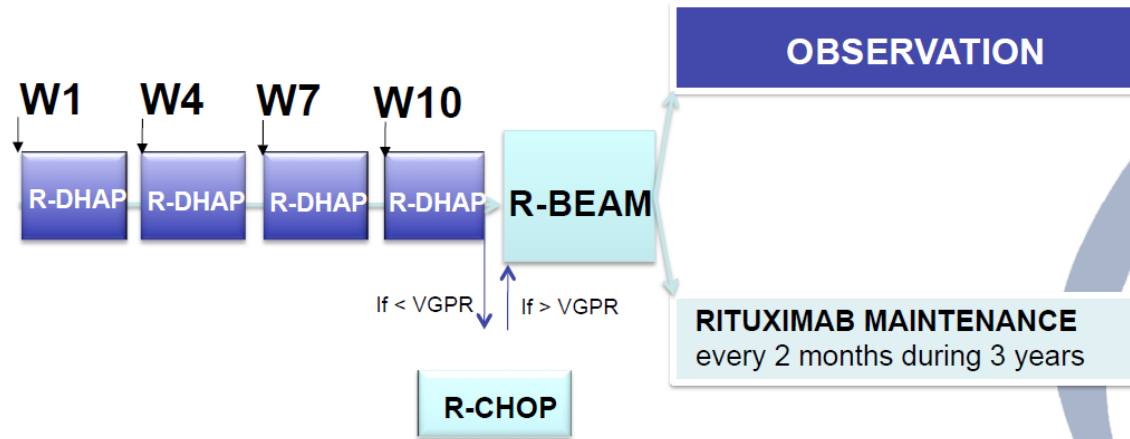
ORIGINAL ARTICLE

Rituximab after Autologous Stem-Cell Transplantation in Mantle-Cell Lymphoma

S. Le Gouill, C. Thieblemont, L. Oberic, A. Moreau, K. Bouabdallah, C. Dartigeas, G. Damaj, T. Gastinne, V. Ribrag, P. Feugier, O. Casasnovas, H. Zerazhi, C. Haioun, H. Maisonneuve, R. Houot, F. Jardin, E. Van Den Neste, O. Tournilhac, K. Le Dû, F. Morschhauser, G. Cartron, L.-M. Fornecker, D. Canioni, M. Callanan, M.C. Béné, G. Salles, H. Tilly, T. Lamy, R. Gressin, and O. Hermine, for the LYSA Group*



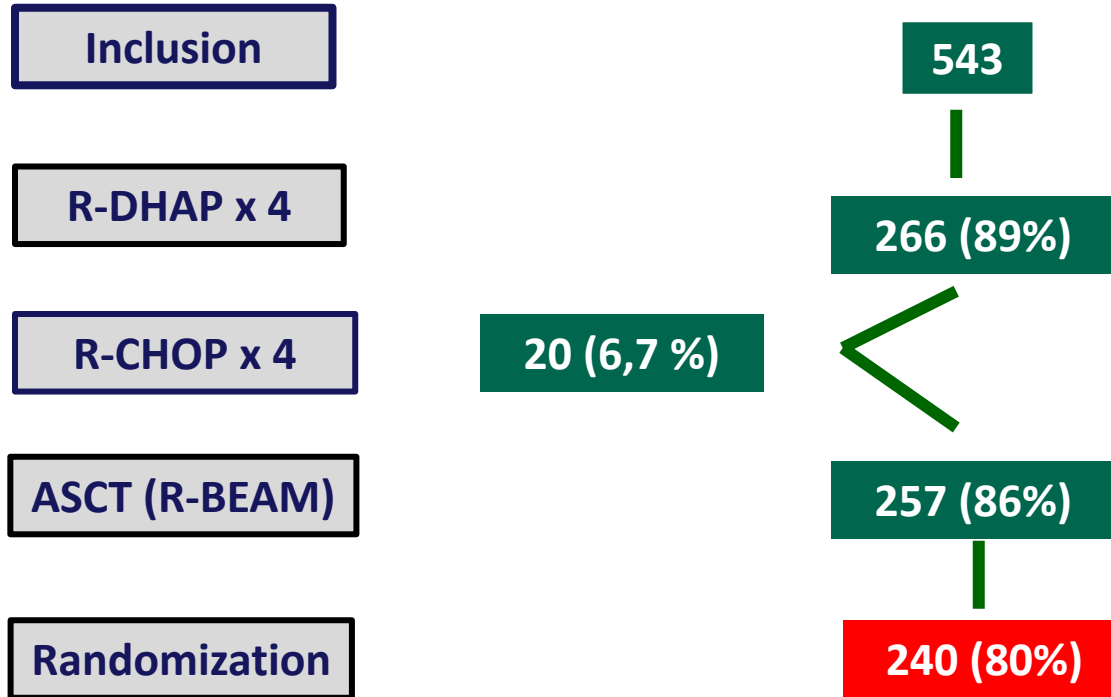
Rituximab maintenance after R-DHAP and ASCT in young untreated MCL: LyMa trial



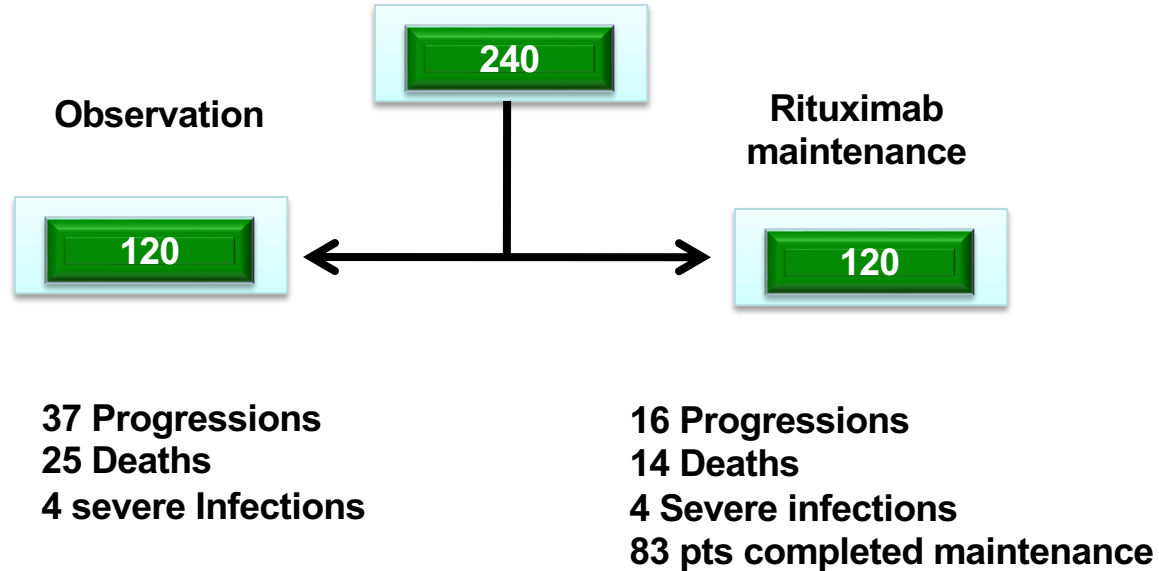
R-DHAP: Rituximab 375mg/m²; aracytine 2g/m² x2 IV 3 hours injection 12hours interval; dexamethasone 40mg d1-4; Cisplatin 100mg/m² d1 (or oxaliplatin or carboplatin)

R-BEAM: Rituximab 500mg/m² d-8; BCNU 300mg/m² d-7; Etoposide 400mg/m²/d d-6 to -3; aracytine 400mg/m²/d d-6 to d-3; melphalan 140mg/m² d-2

Study Flow Chart

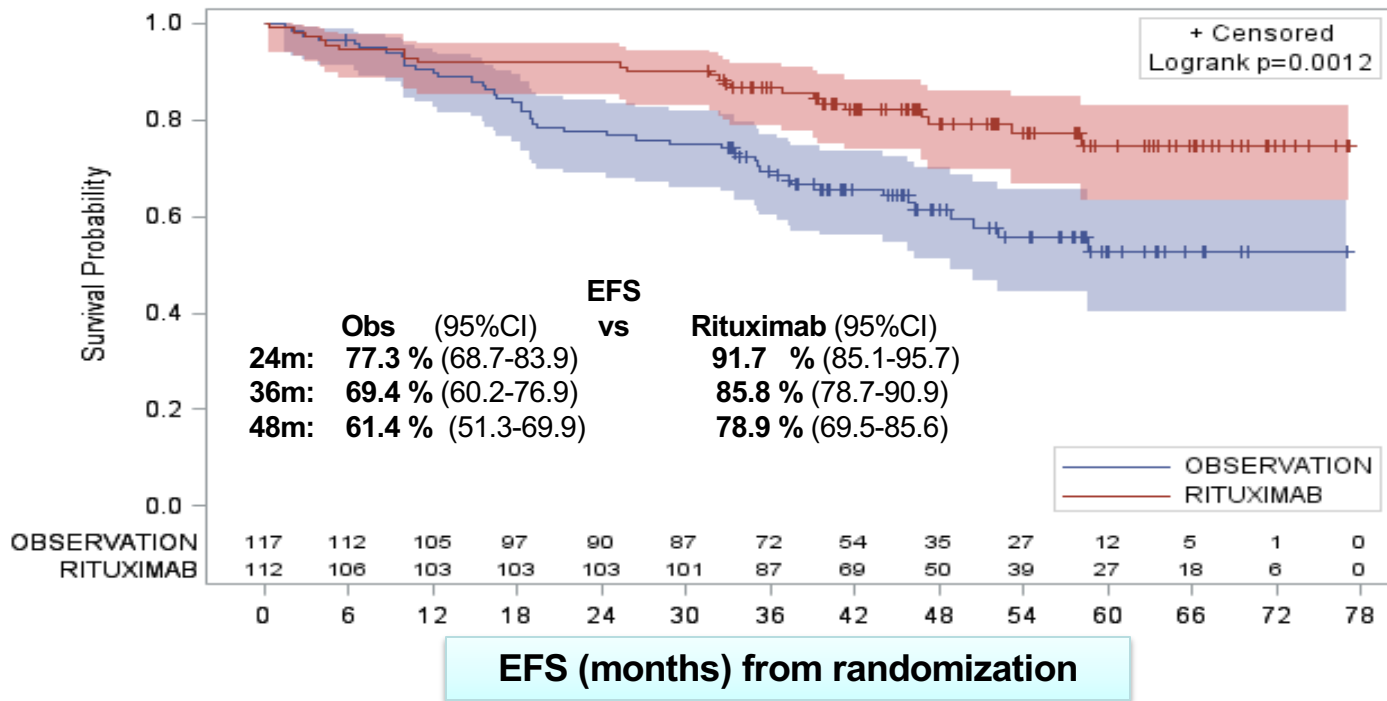


Flow chart of randomized patients



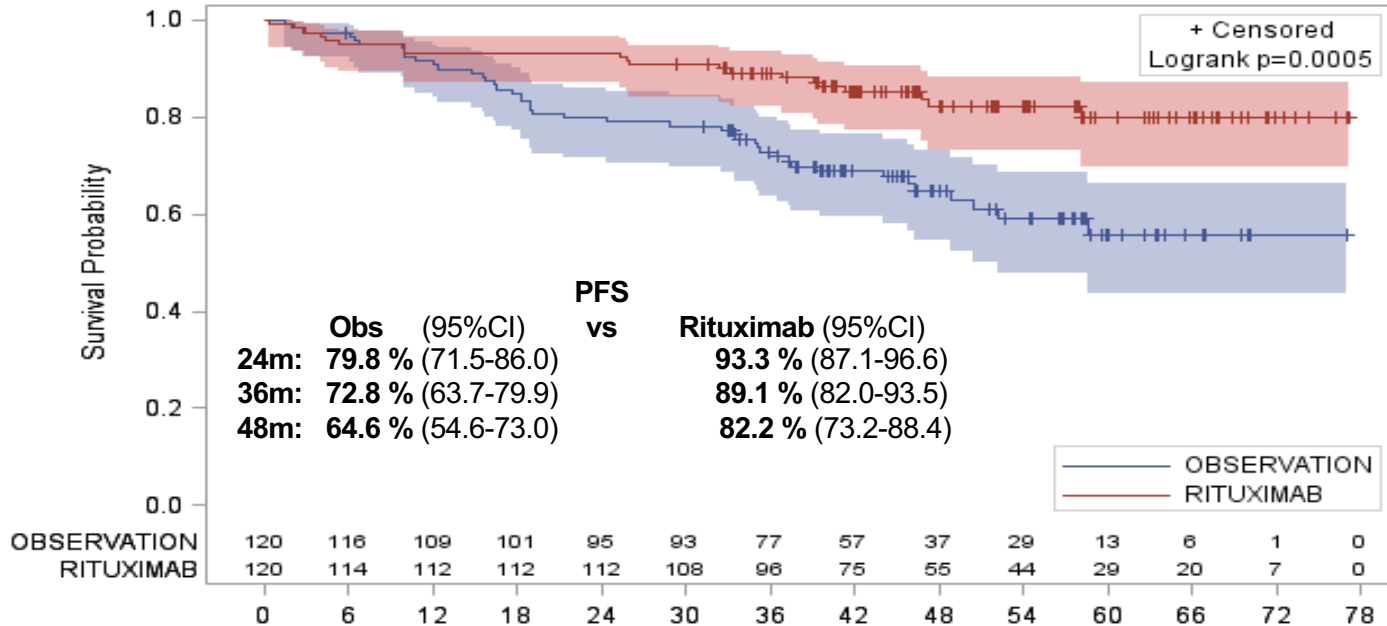
EFS from Randomization

mFU: 50.2m (46.4-54.2)



PFS from Randomization

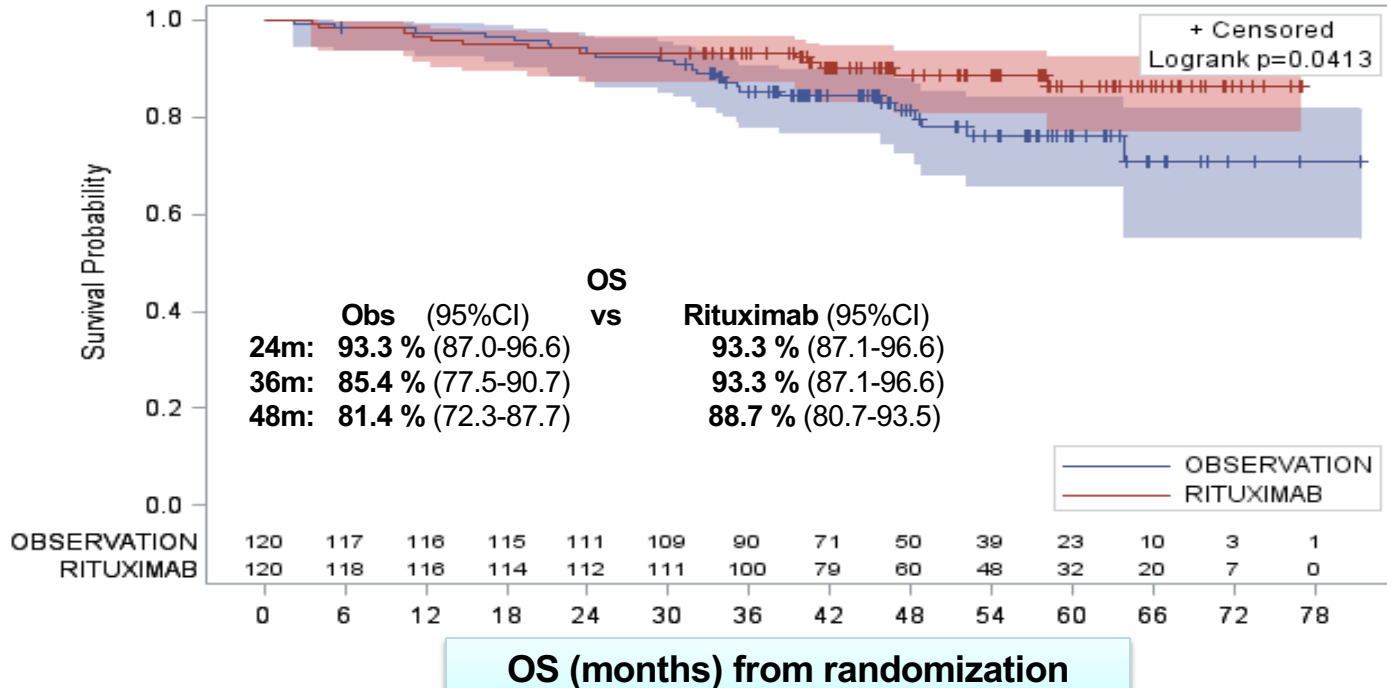
mFU: 50.2m (46.4-54.2)



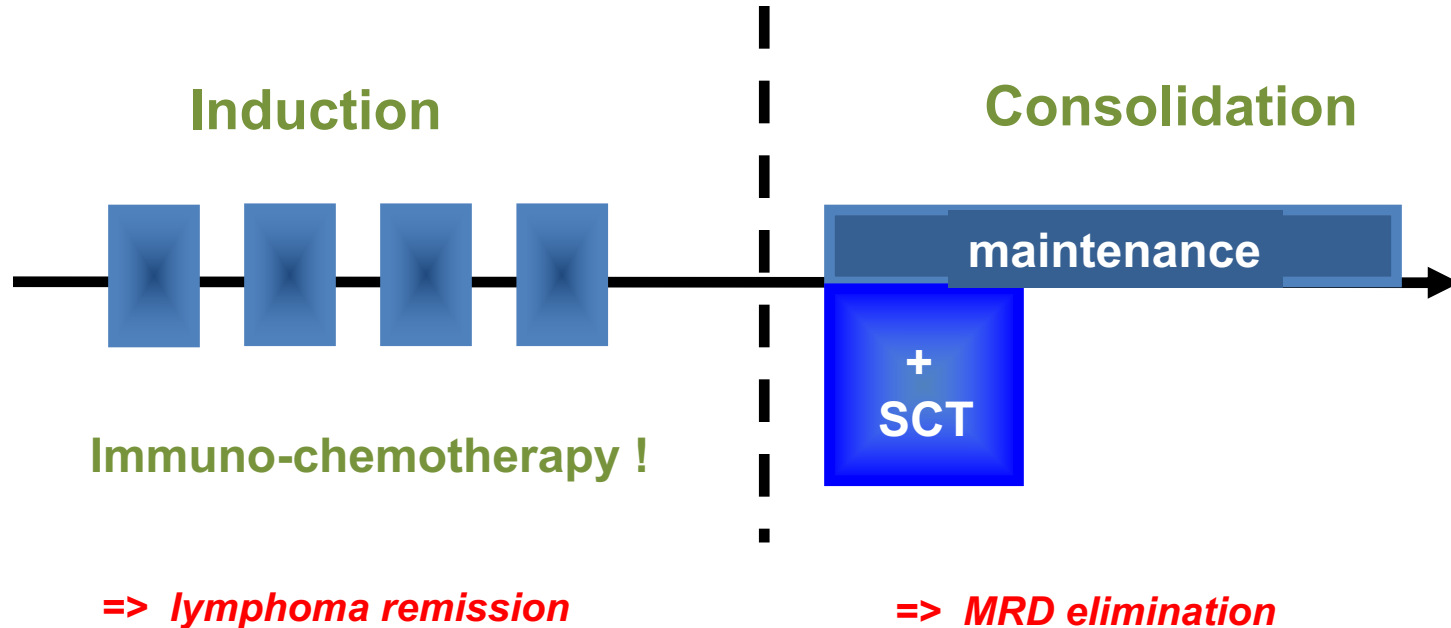
PFS (months) from randomization

OS from Randomization

mFU: 50.2m (46.4-54.2)



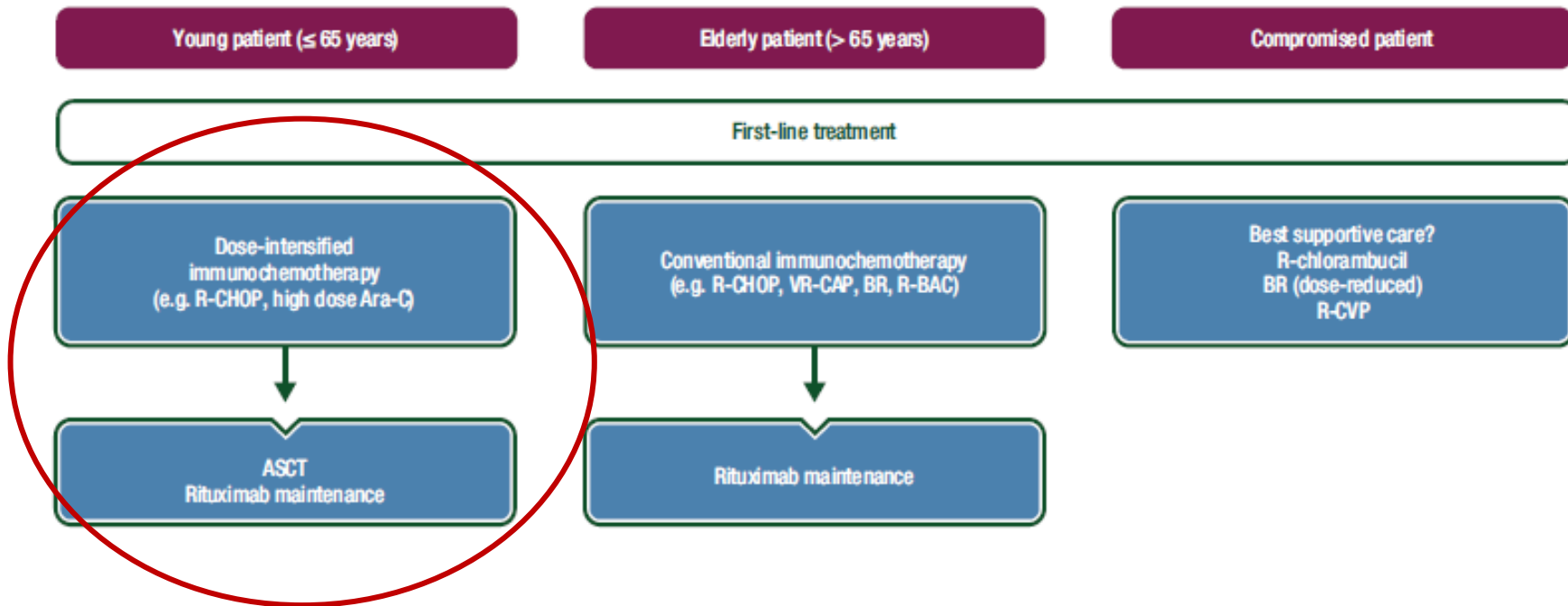
Optimal treatment for younger MCL

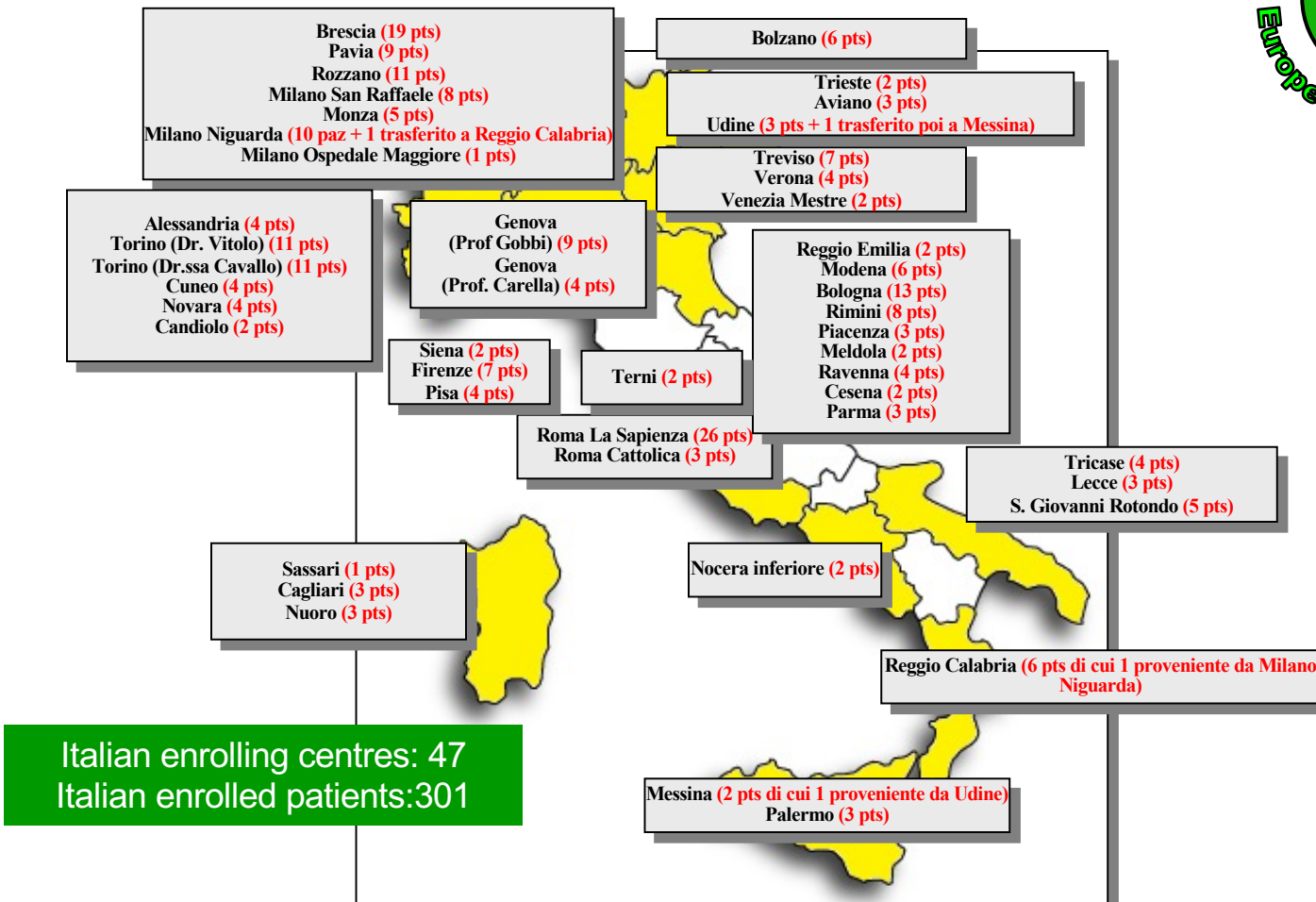


CLINICAL PRACTICE GUIDELINES

Newly diagnosed and relapsed mantle cell lymphoma: ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up[†]

M. Dreyling¹, E. Campo², O. Hermine³, M. Jerkeman⁴, S. Le Goull⁵, S. Rule⁶, O. Shpilberg⁷, J. Walewski⁸ & M. Ladetto⁹, on behalf of the ESMO Guidelines Committee^{*}



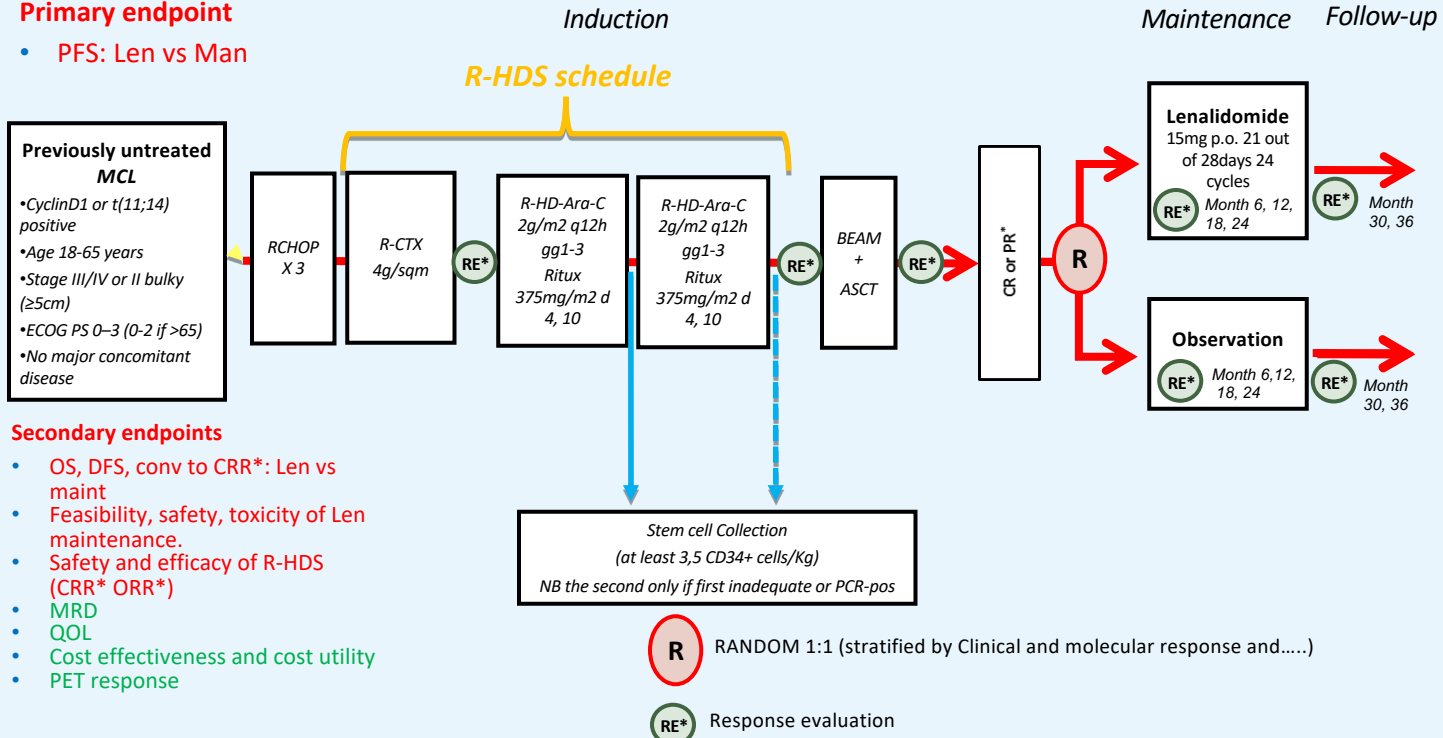


STUDY DESIGN

Open-label, randomised Phase III study (NCT02354313)

Primary endpoint

- PFS: Len vs Man



Previously untreated MCL

- CyclinD1 or t(11;14) positive
- Age 18-65 years
- Stage III/IV or II bulky ($\geq 5\text{cm}$)
- ECOG PS 0-3 (0-2 if >65)
- No major concomitant disease

Secondary endpoints

- OS, DFS, conv to CRR*: Len vs maint
- Feasibility, safety, toxicity of Len maintenance.
- Safety and efficacy of R-HDS (CRR* ORR*)
- MRD
- QOL
- Cost effectiveness and cost utility
- PET response



Lenalidomide Maintenance after Autologous Transplantation Prolongs PFS in Young MCL Patients: Results of the Randomized Phase III MCL0208 Trial from Fondazione Italiana Linfomi (FIL) (NCT02354313)

**ASH Meeting, San Diego CA USA 2nd
December 2018**

*Marco Ladetto**, Simone Ferrero, Andrea Evangelista, Michael Mian, Alice Di Rocco, Angela Coggi, Giuseppe Rossi, Alessandro Re, Vittorio Stefoni, Federica Cavallo, Annalisa Chiappella, Armando Santoro, Chiara Rusconi, Maria Gomes da Silva, Manuel Gotti, Anna Lia Molinari, Filippo Ballerini, Andrés J.M. Ferreri, Alberto Bosi, Franco Narni, Caterina Stelitano, Albrto Zamò, Gianni Ciccone, Umberto Vitolo, Maurizio Martelli, Sergio Cortelazzo

On behalf of Fondazione Italiana Linfomi (FIL) and European Mantle Cell Lymphoma Network

*A.O. S.S. Antonio e Biagio e Cesare Arrigo, Alessandria, Italy EU

STUDY POPULATION

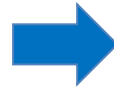
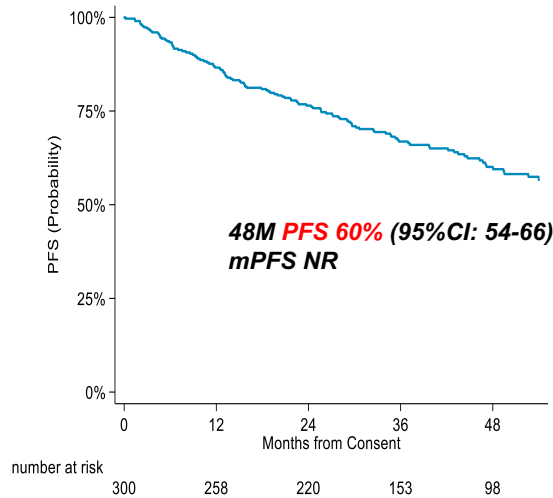
	Enrolled population (N=300)	Non-randomised population (N=95)	Randomised population (N=205)	Lenalidomide maintenance group (N=104)	Observation group (N=101)
Age, years	57 (51-62)	58 (54-62)	57 (49-61)	57 (51-61)	57 (49-61)
Sex					
Female	65 (22%)	20 (21%)	45 (22%)	19 (18%)	26 (26%)
Male	235 (78%)	75 (79%)	160 (78%)	85 (82%)	75 (74%)
Lactate dehydrogenase >ULN	98 (33%)	45 (47%)	53 (26%)	25 (24%)	28 (28%)
ECOG-PS score >1	69 (23%)	29 (31%)	40 (20%)	18 (17%)	22 (22%)
Ann Arbor Stage III-IV	295 (98%)	95 (100%)	200 (98%)	102 (98%)	98 (97%)
MIPI score					
Low	162 (54%)	38 (40%)	124 (60%)	60 (58%)	64 (63%)
Intermediate	93 (31%)	38 (40%)	55 (27%)	29 (28%)	26 (26%)
High	45 (15%)	19 (20%)	26 (13%)	15 (14%)	11 (11%)
Bulky disease (>5 cm)	98 (33%)	39 (41%)	59 (29%)	29 (28%)	30 (30%)
Bone marrow involvement	233 (78%)	82 (86%)	151 (74%)	72 (69%)	79 (78%)
Ki67 index >30%	84/271 (31%)	30/81 (37%)	54/190 (28%)	24/94 (26%)	30/96 (31%)
MIPI-c					
Low risk	133/271 (49%)	32/81 (40%)	101/190 (53%)	46/94 (49%)	55/96 (57%)
Low-intermediate risk	79/271 (29%)	25/81 (31%)	54/190 (28%)	32/94 (34%)	22/96 (23%)
High-intermediate risk	36/271 (13%)	14/81 (17%)	22/190 (12%)	12/94 (13%)	10/96 (10%)
High risk	23/271 (8%)	10/81 (12%)	13/190 (7%)	4/94 (4%)	9/96 (9%)
Blastoid histology	26 (9%)	13 (14%)	13 (6%)	7 (7%)	6 (6%)
TP53 ^{mut} or del(17p)	31/186 (17%)	14/62 (23%)	17/124 (14%)	8/55 (15%)	9/69 (13%)
Clinical or molecular randomisation strata					
Group 1: CR with PCR negative	NA	NA	89 (43%)	42 (40%)	47 (47%)
Group 2: PR or CR with PCR positive	NA	NA	116 (57%)	62 (60%)	54 (53%)

Data are median (IQR), n (%), or n/total available (%). ULN=upper limit of normal. ECOG-PS=Eastern Cooperative Oncology Group Performance Status. MIPI=Mantle Cell Lymphoma International Prognostic Index. MIPI-c=combined Mantle Cell Lymphoma International Prognostic Index and Ki67 Index.¹² CR=complete response. NA=not applicable. PR=partial response.

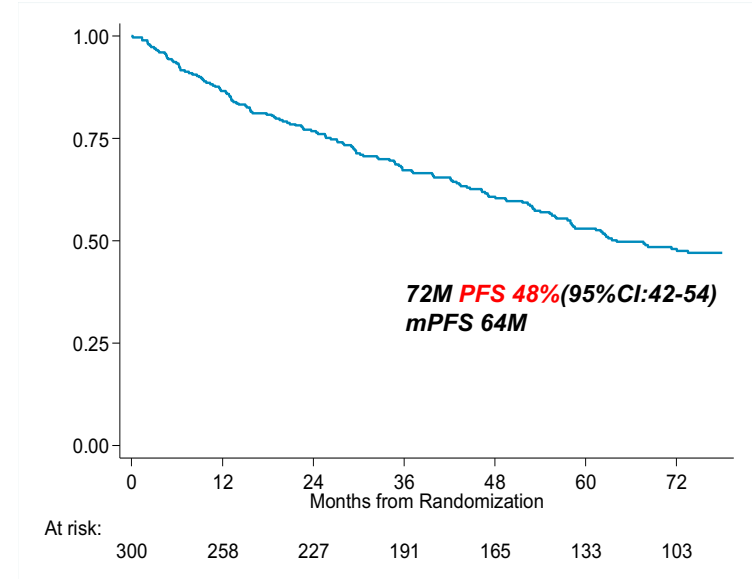
Table 1: Demographic and clinical characteristics of patients at inclusion

PFS FROM ENROLLMENT: ENROLLED POPULATION

mFU TIME FROM CONSENT-- 51 M



mFU TIME FROM CONSENT-- 84 M

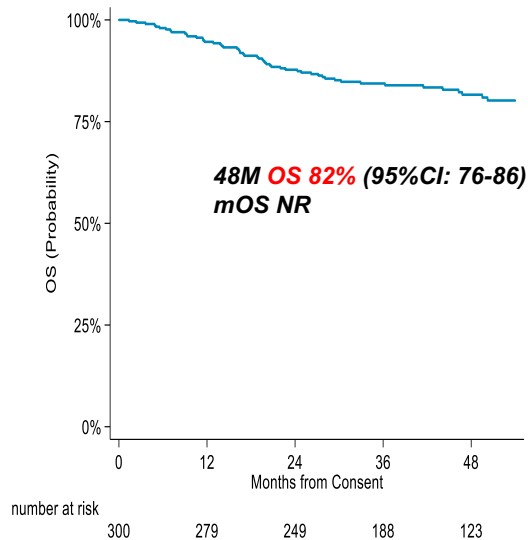


PRIMARY ENDPOINT ANALYSIS

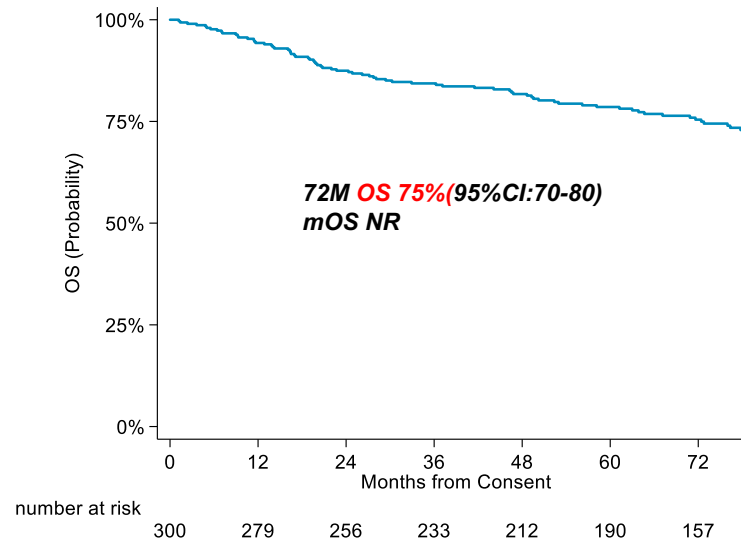
LONG-TERM ANALYSIS

OS FROM ENROLLMENT: ENROLLED POPULATION

mFU TIME FROM CONSENT-- 51 M



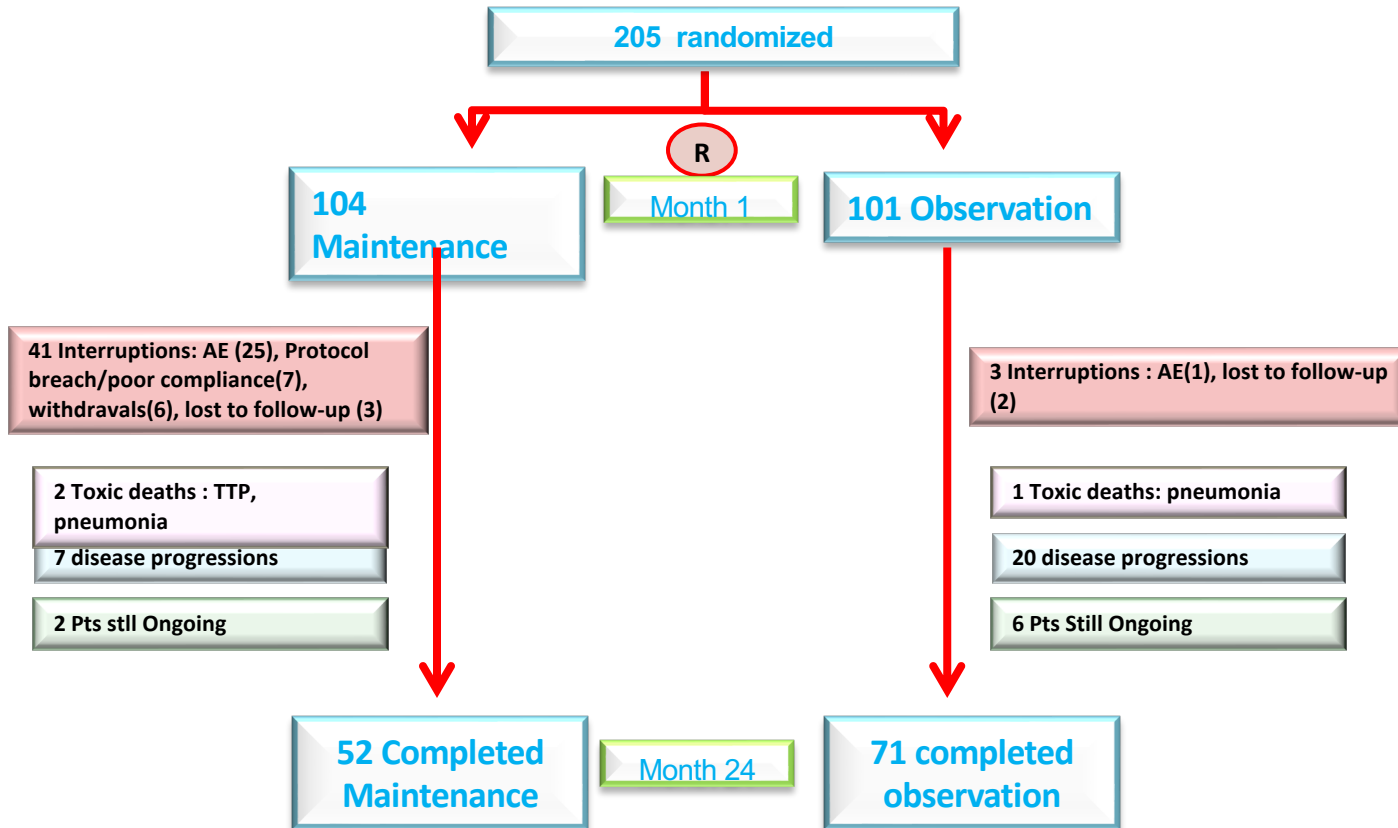
mFU TIME FROM CONSENT-- 84 M



PRIMARY ENDPOINT ANALYSIS

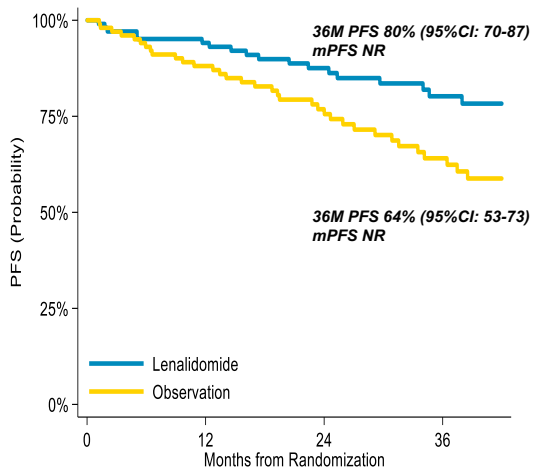
LONG-TERM ANALYSIS

RANDOMIZED POPULATION PATIENT FLOW



RANDOMIZED POPULATION PFS FROM RANDOMIZATION (ITT ANALYSIS)

mFU TIME FROM RANDOMIZATION-- 38 M

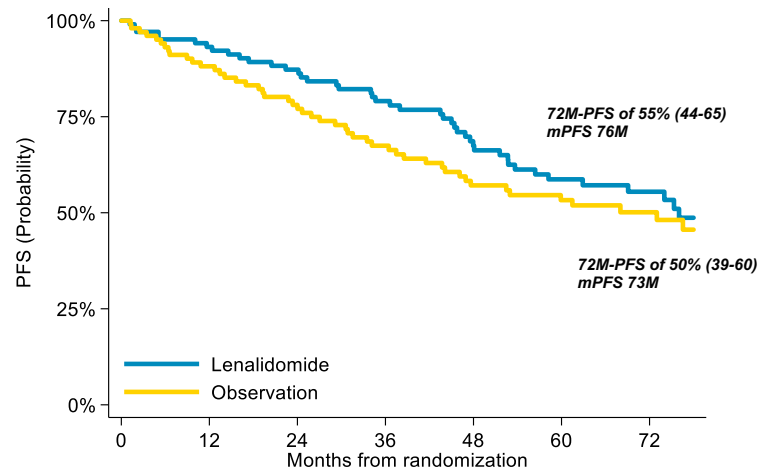


number at risk		0	12	24	36
Lenalidomide	104	93	69	44	
Observation	101	87	60	40	

PRIMARY ENDPOINT ANALYSIS



mFU TIME FROM RANDOMIZATION-- 74 M

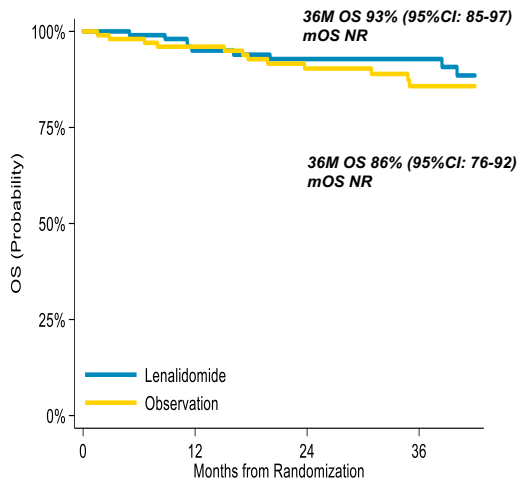


number at risk		0	12	24	36	48	60	72
Lenalidomide	104	95	86	73	57	43	32	
Observation	101	89	75	61	49	40	26	

LONG-TERM ANALYSIS

RANDOMIZED POPULATION OS FROM RANDOMIZATION (ITT ANALYSIS)

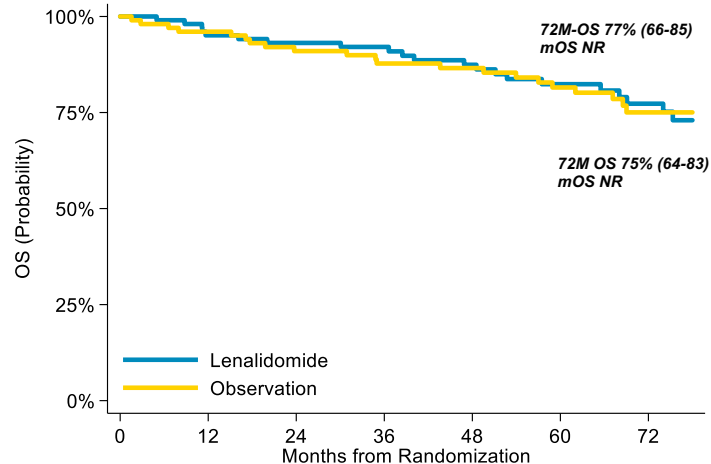
mFU TIME FROM RANDOMIZATION-- 38 M



number at risk

Lenalidomide	104	94	73	51
Observation	101	95	71	52

mFU TIME FROM RANDOMIZATION-- 74 M



number at risk

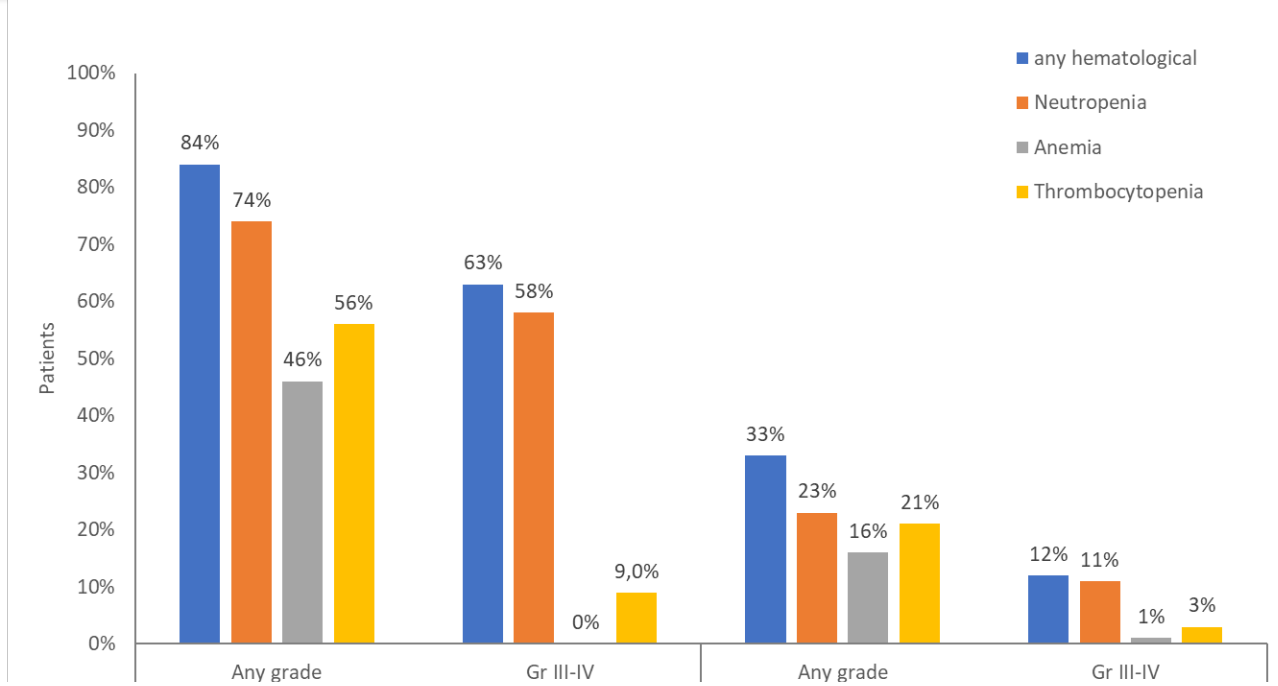
Lenalidomide	104	97	91	83	73	59	43
Observation	101	97	87	79	73	62	41

PRIMARY ENDPOINT ANALYSIS

LONG-TERM ANALYSIS

11 (11%) of 104 patients randomly assigned to lenalidomide did not start the study drug.
52 (50%) of 104 patients completed the maintenance treatment

HEMATOLOGICAL TOXICITY (by patient)



**Lenalidomide
 Maintenance**

Observation



blood®

1378

22 SEPTEMBER 2022 | VOLUME 140, NUMBER 12

Regular Article

LYMPHOID NEOPLASIA

Punctual and kinetic MRD analysis from the Fondazione Italiana Linfomi MCL0208 phase 3 trial in mantle cell lymphoma

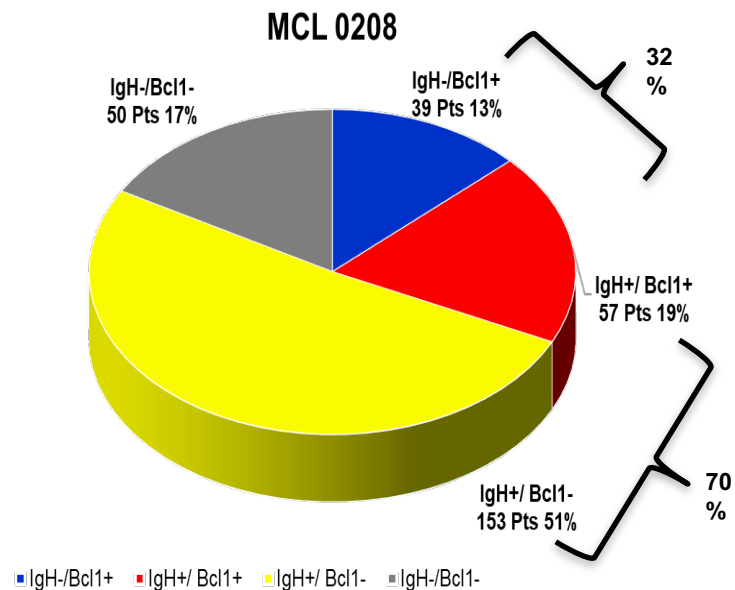
Simone Ferrero,^{1,2} Daniele Grimaldi,^{1,3} Elisa Genuardi,¹ Daniela Drandi,¹ Gian Maria Zaccaria,^{1,4} Beatrice Alessandria,¹ Marco Ghislieri,^{5,6} Martina Ferrante,¹ Andrea Evangelista,⁷ Barbara Mantoan,¹ Gabriele De Luca,¹ Piero Maria Stefani,⁸ Fabio Benedetti,⁹ Ivana Casaroli,¹⁰ Manuela Zanni,¹¹ Claudia Castellino,³ Vincenzo Pavone,¹² Mario Petrini,¹³ Francesca Re,¹⁴ Stefan Hohaus,¹⁵ Gerardo Musuraca,¹⁶ Nicola Cascavilla,¹⁷ Chiara Ghiggi,¹⁸ Anna Marina Liberati,¹⁹ Sergio Cortelazzo,²⁰ and Marco Ladetto¹¹

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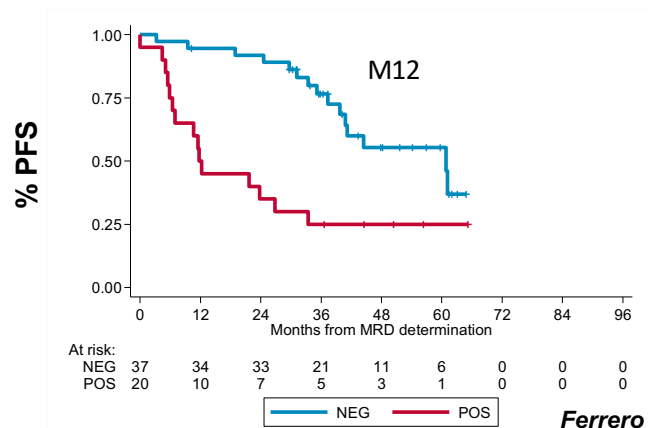
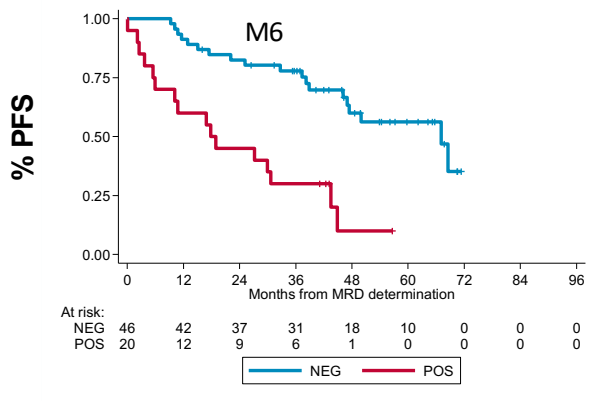
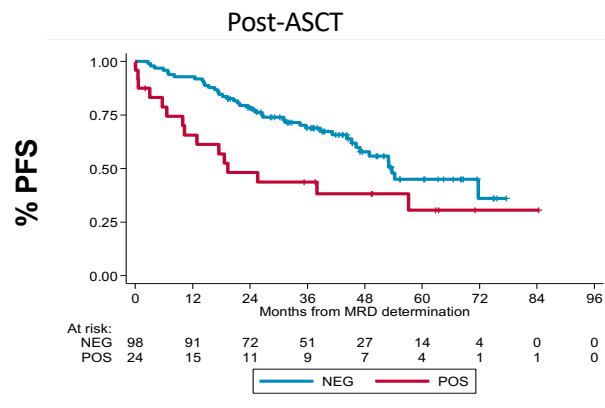
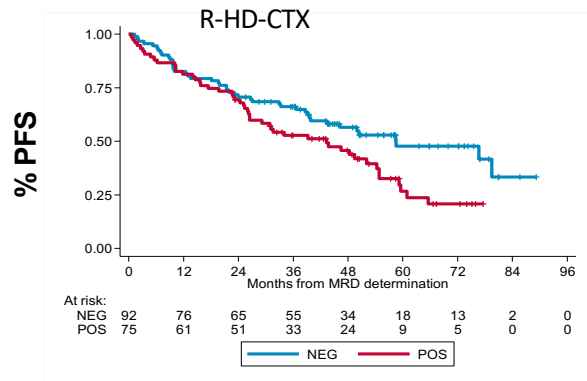
**Molecular markers
for MRD detection:
250/300 (83%)**

IGH+ 70%

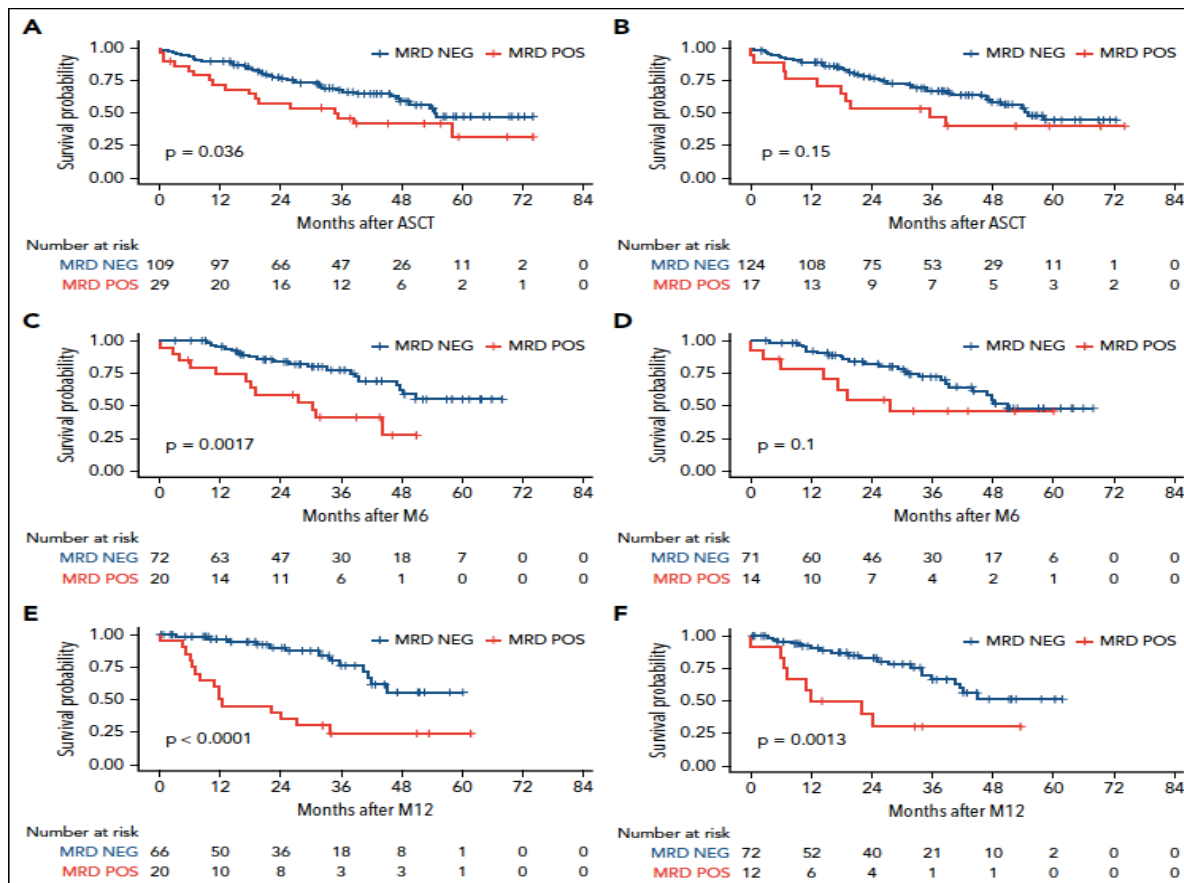
BCL1/IGH+ 32%



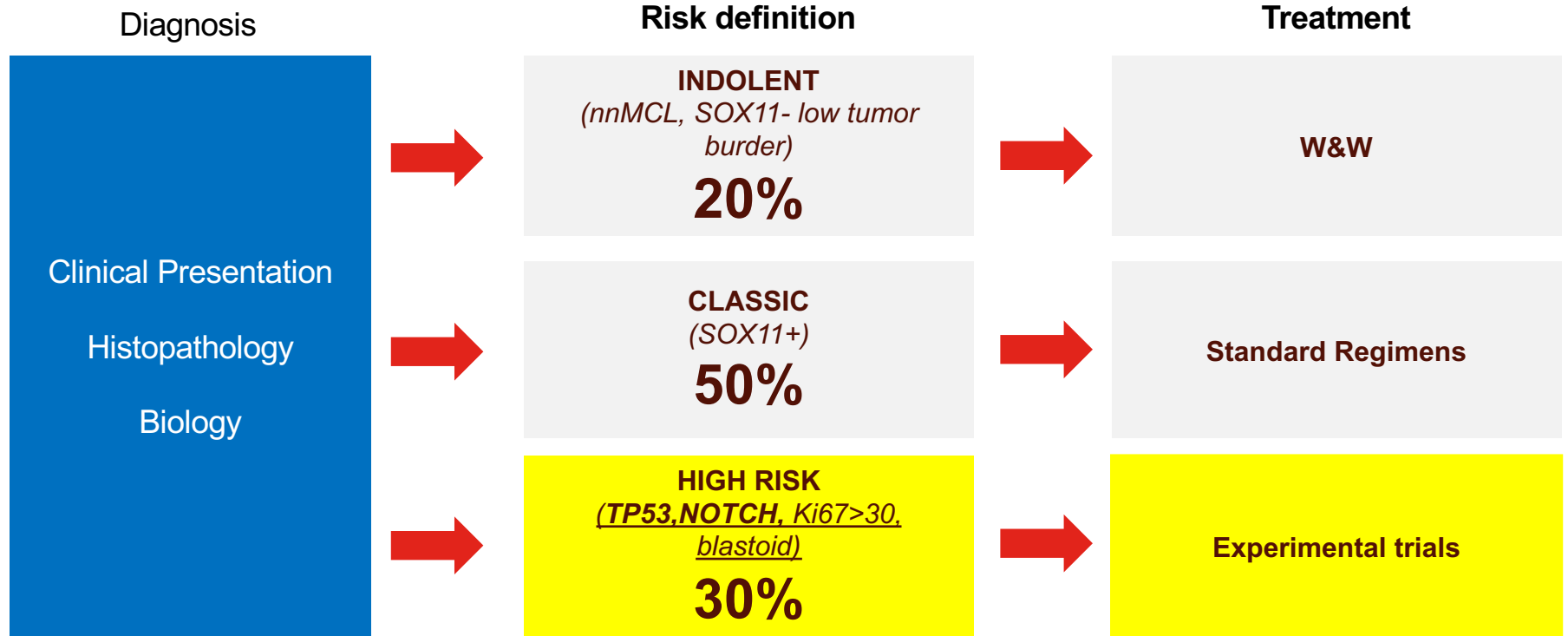
MRD TIME POINTS COMPARISON: PFS BY RQ-PCR RESULTS ON BM



MCL0208: MRD peripheral blood Landmark analysis for PFS



New therapeutic approach in MCL



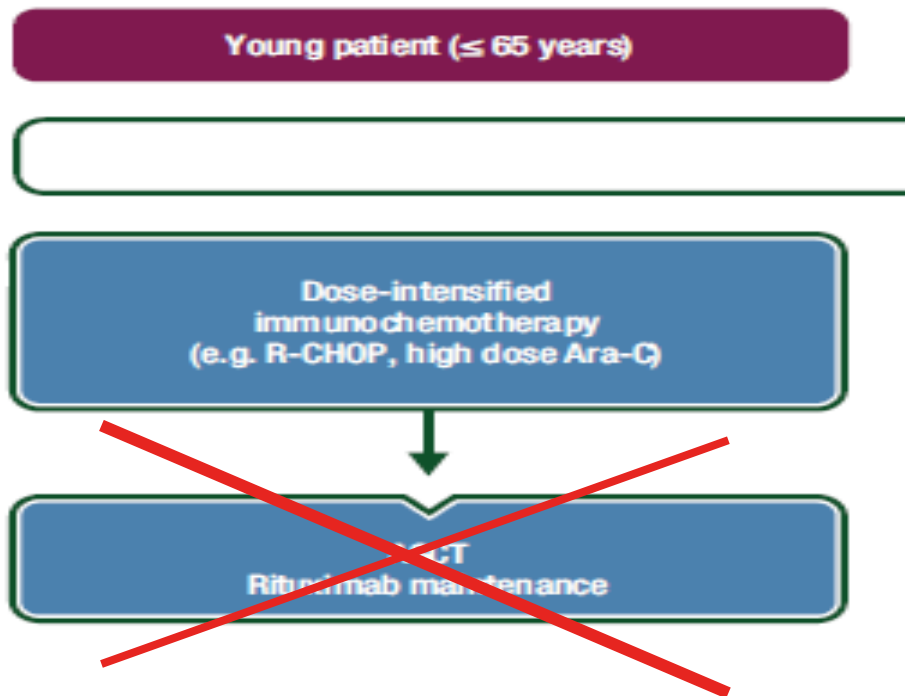
High risk features distribution

	Young (MCL-0208)	Nordic (MCL2-3)	Elderly (VR-BAC)
All patients	190	183	140
Ki67>30%	50 (28%)	68 (43%)	34 (24%)
TP53 mut	15 (8%)	20 (11%)	28 (20%)
TP53 del	25 (13%)	29 (16%)	19 (14%)
TP53 mut/del	31 (17%)	37 (20%)	34 (24%)
Blastoid	16 (8%)	31 (17%)	13 (9%)

Newly diagnosed and relapsed mantle cell lymphoma: ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up[†]

M. Dreyling¹, E. Campo², O. Hermine³, M. Jerkeman⁴, S. Le Gouill⁵, S. Rule⁶, O. Shpilberg⁷, J. Walewski⁸ & M. Ladetto⁹, on behalf of the ESMO Guidelines Committee*

TRIANGLE ERA





Gruppo per la terapia dei linfomi non Hodgkin
Ematologia Sapienza Roma



SAPIENZA
UNIVERSITÀ DI ROMA



SISTEMA SANITARIO REGIONALE
AZIENDA OSPEDALIERO-UNIVERSITARIA
POLICLINICO UMBERTO I



FONDAZIONE
ITALIANA
LINFOMI

Grazie!

... a voi tutti per l'attenzione