



ASH 2024

**Wichtig zu wissen**

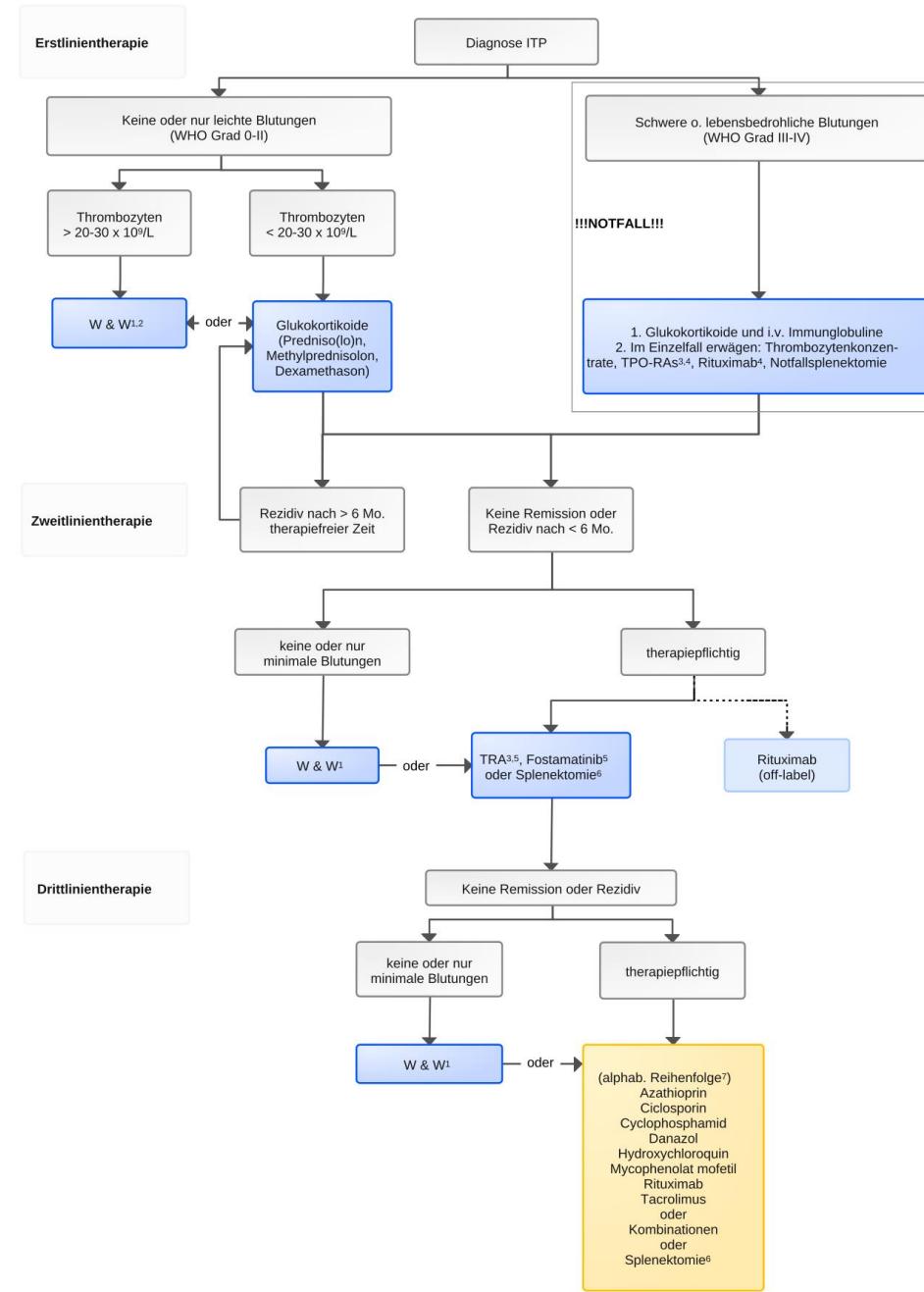
# **ASH Kongress 2024**

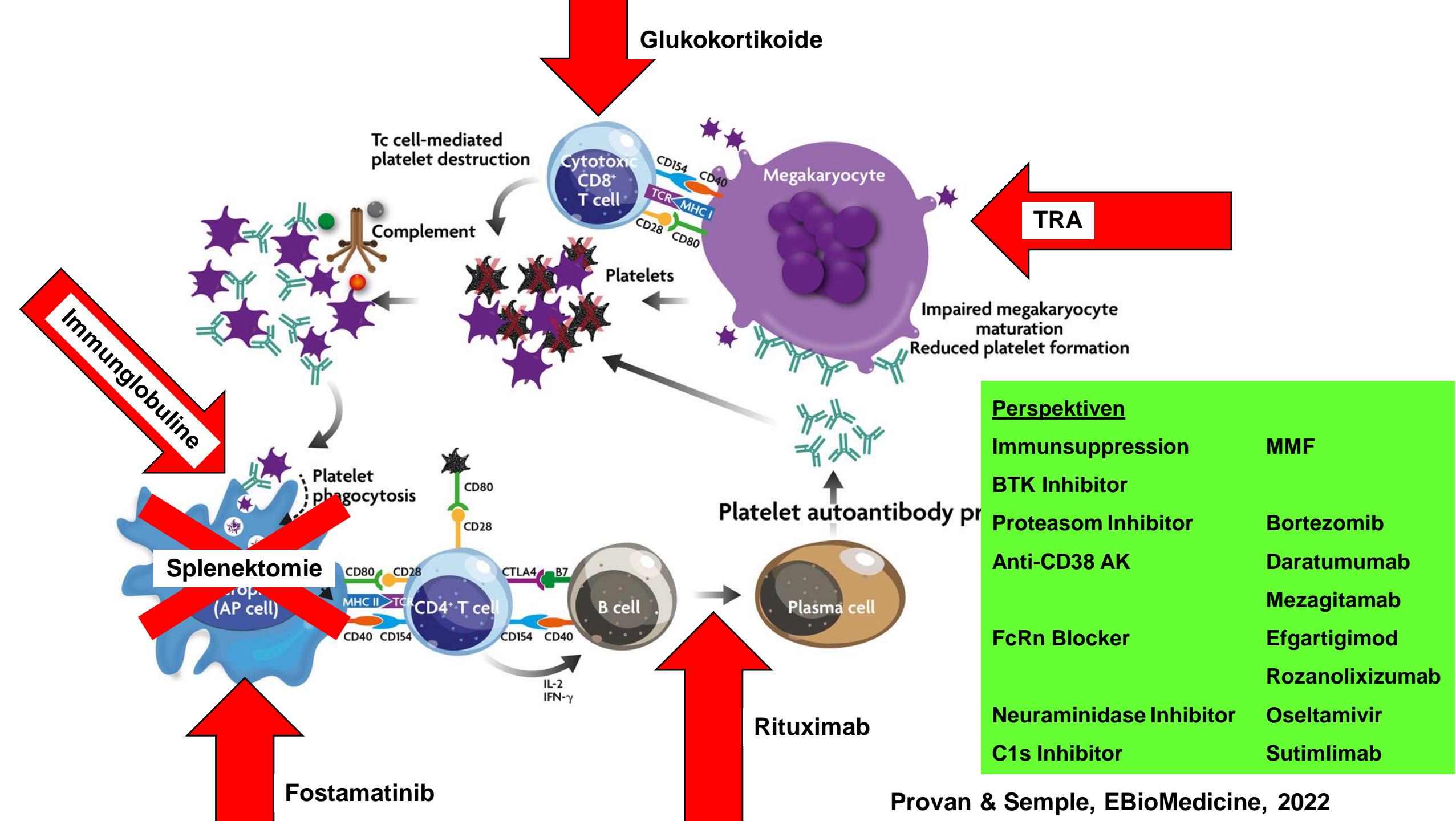
## **wichtig zu wissen**

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- Immunthrombozytopenie
- Sichelzellkrankheit
- Venöse Thromboembolien
- Multiples Myelom
- Chronische Lymphatische Leukämie
- Mantelzell-Lymphom
- Follikuläres Lymphom
- Akute Lymphatische Leukämie
- Akute Myeloische Leukämie

## Algorithmus zu Therapieempfehlungen bei Immunthrombozytopenie





# Bruton's Tyrosine Kinase inhibitors

Autoimmune cytopenias often improved with ibrutinib

*Rogers et al, Leukemia 2016; Montillo et al, Blood Cancer Journal 2017; Hampel et al, Br J Haematol 2018.*

Increased risk of **bleeding** (up to 40%) with 1<sup>st</sup> and 2<sup>nd</sup> generation BTKi

Inhibition of **platelet aggregation**

*Tullemans et al, EJHaem 2021; Ninomoto J et al, Hematology 2020.*

**Goal:** Treat the autoimmune cytopenia; avoid the off-target effects

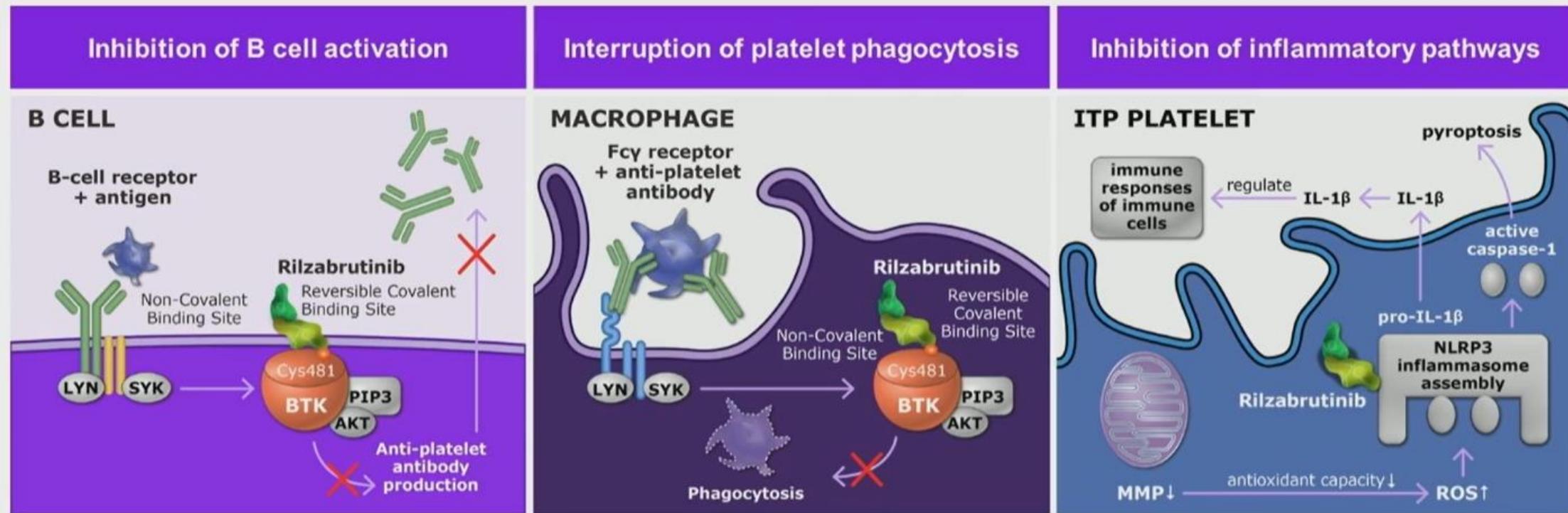
# Efficacy and Safety of Oral Bruton Tyrosine Kinase Inhibitor Rilzabrutinib in Adults With Previously Treated Immune Thrombocytopenia: A Phase 3, Placebo-Controlled, Parallel-Group, Multicenter Study (LUNA 3)

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# Rilzabrutinib: Oral, Reversible, BTK Inhibitor



Kuter DJ, et al. Ther Adv Hematol. 2023; Langrish CL, et al. J Immunol. 2021; Wang S, et al. Thromb Res. 2021; Daak A, et al. Blood. 2024 (abstract 2482).

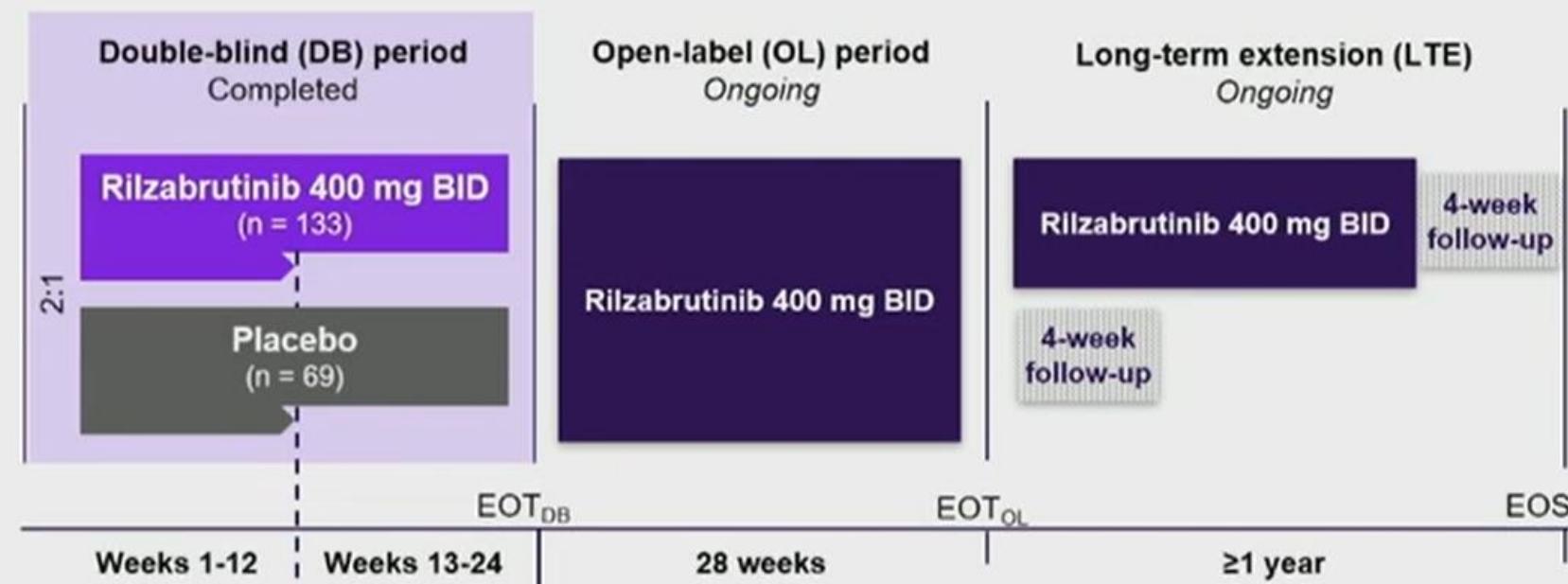
Does not cause platelet dysfunction

LUNA-2: Open-label, dose-finding, Phase 1–2 trial of Rilzabrutinib in ITP Kuter et al, NEJM 2022  
 LUNA-3: Phase 3 trial, Rilzabrutinib vs. Placebo for previously treated ITP

# LUNA 3 Study Design

## Adult patients (*pediatric ongoing*)

- Age  $\geq 18$  years
- Persistent or chronic primary ITP
- Prior IVIg/anti-D or CS but not sustained
- Qualifying platelet counts  $<30 \times 10^9/L$
- Allowed stable concomitant CS and/or TPO-RA



## Platelet response (week 13)

- Platelet count  $\geq 50 \times 10^9/L$  or  $\geq 30 - < 50 \times 10^9/L$  and doubled from baseline
- Non-responders: option to discontinue or proceed to open-label on rilzabrutinib only

## Durable response (week 25)

### *Primary endpoint*

- Platelet count  $\geq 50 \times 10^9/L$  for  $\geq$  two-thirds of last 12 weekly visits in the absence of rescue therapy

## Baseline Demographics and Prior Therapy

Generally balanced between arms

	Rilzabrutinib (n = 133)	Placebo (n = 69)
Median age, y (range)	47 (18–80)	46 (19–79)
Females, n (%)	78 (58)	49 (71)
Median duration of ITP, y (range)	8.1 (0.3–52.2)	6.2 (0.3–35.8)
Median baseline platelet count, $\times 10^9/L$ (range)*	15 (1–32)	15 (1–54)
Median number of unique prior ITP therapies (range)†	4 (1–15)	5 (1–12)
$\geq 5$ prior therapies, n (%)	57 (43)	36 (52)
Prior splenectomy, n (%)	37 (28)	19 (28)
Prior TPO-RA, n %)	88 (66)	51 (74)

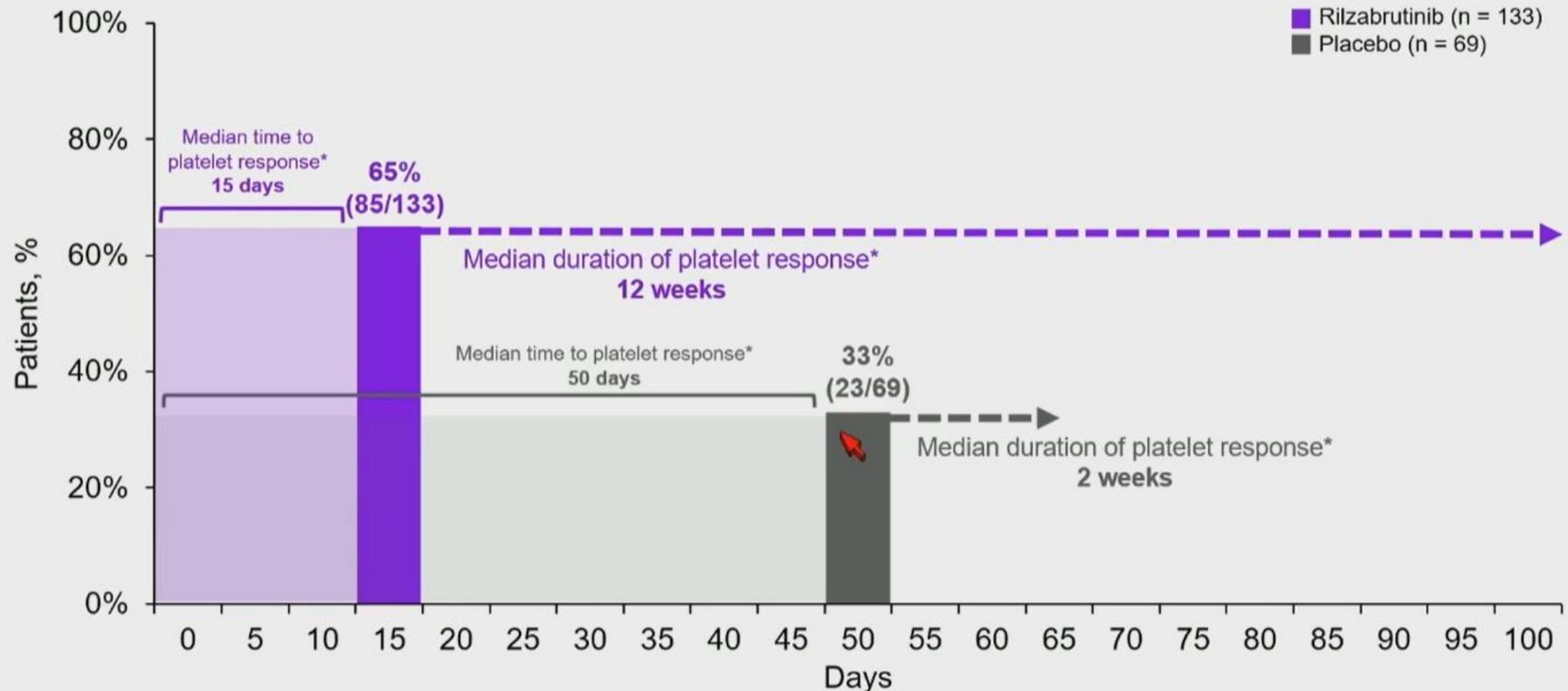
Data cutoff 14 March 2024.

\*Averaged first and second qualifying screening platelet counts and study day 1 platelet count.

†Identified using standard medication term, different corticosteroids counted as one therapy, and splenectomy could be counted as one prior ITP therapy. Patients could receive more than one therapy.

# Initial Platelet Response

Platelet count  $>50 \times 10^9/\text{L}$  or  $30-50 \times 10^9/\text{L}$  and at least doubled from baseline

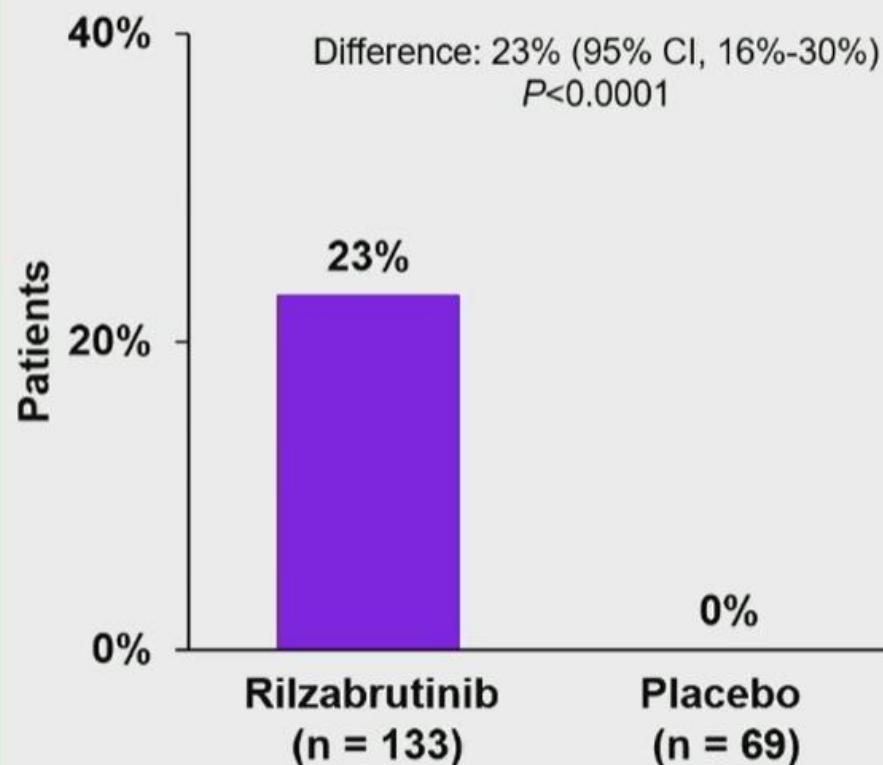


Data cutoff 14 March 2024.

\*Response was at any during the double-blind period. Time to and duration of platelet response values were in patients achieving response at any point during the double-blind period.

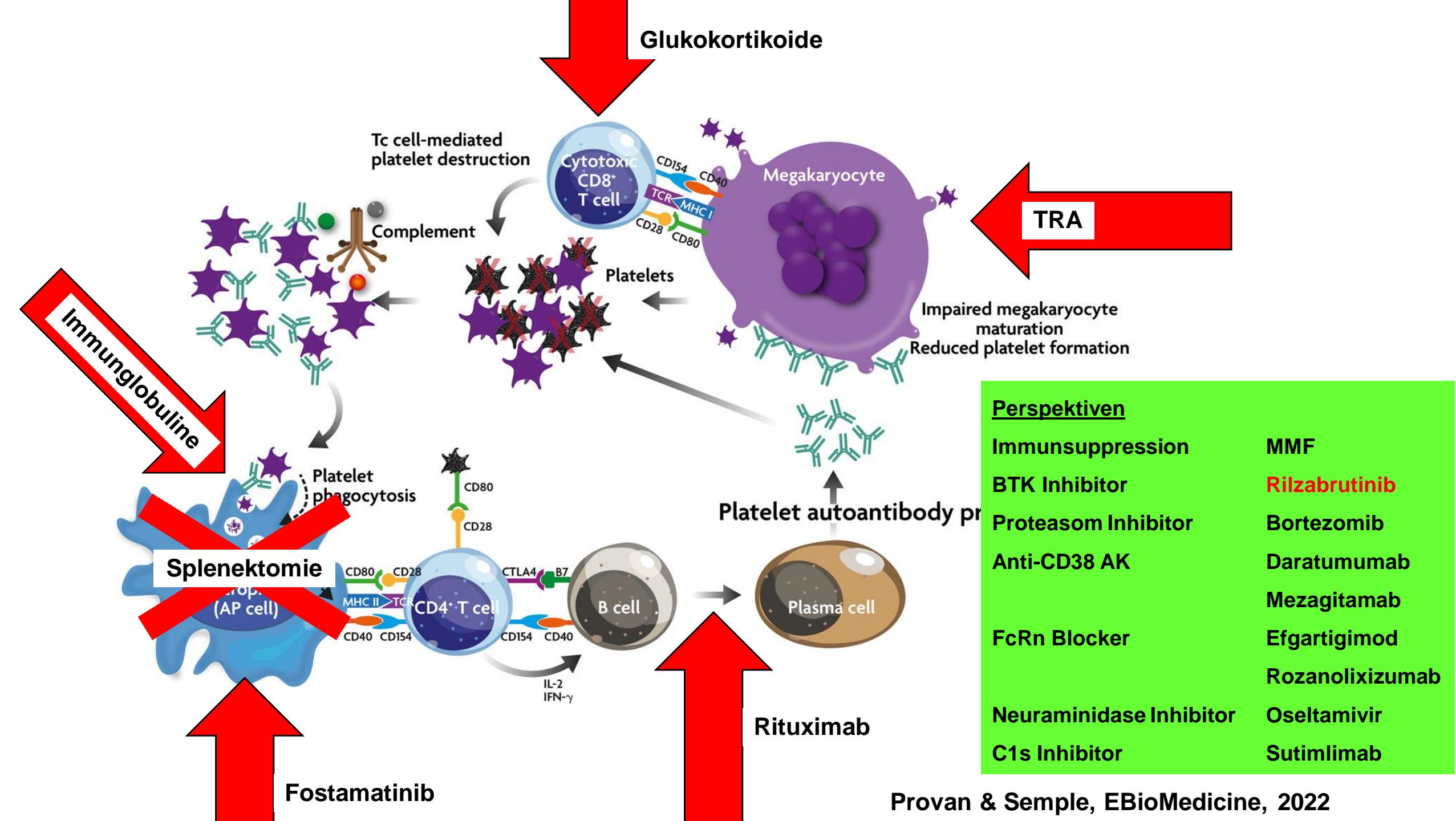
# Durable Platelet Response

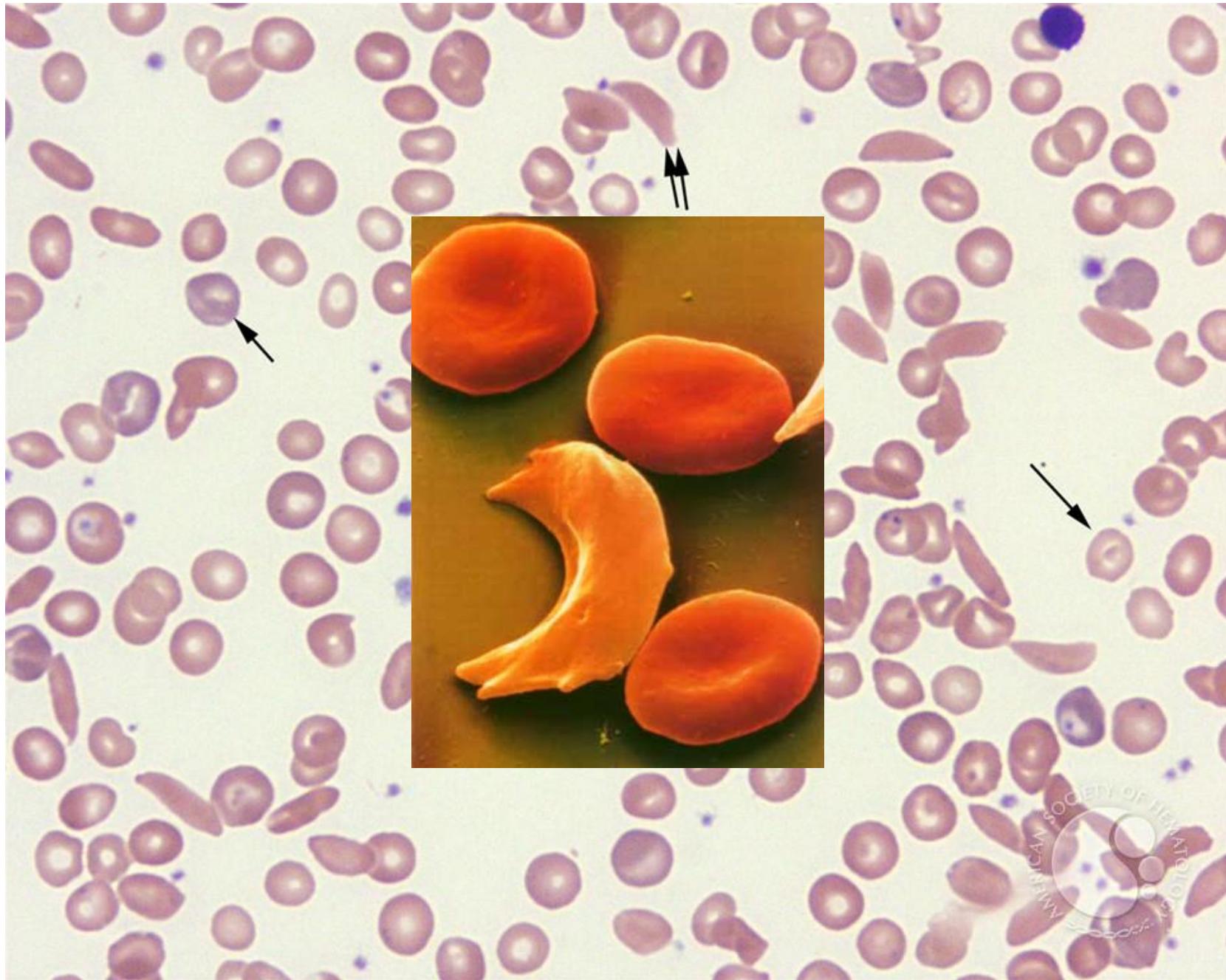
**Durable Response**  
Week 25 Primary Endpoint Was Met



## Durable Response

Defined as platelet counts  $\geq 50 \times 10^9/L$  for  $\geq$ two-thirds of  $\geq 8$  of the last 12 of 24 weeks without receiving rescue therapy

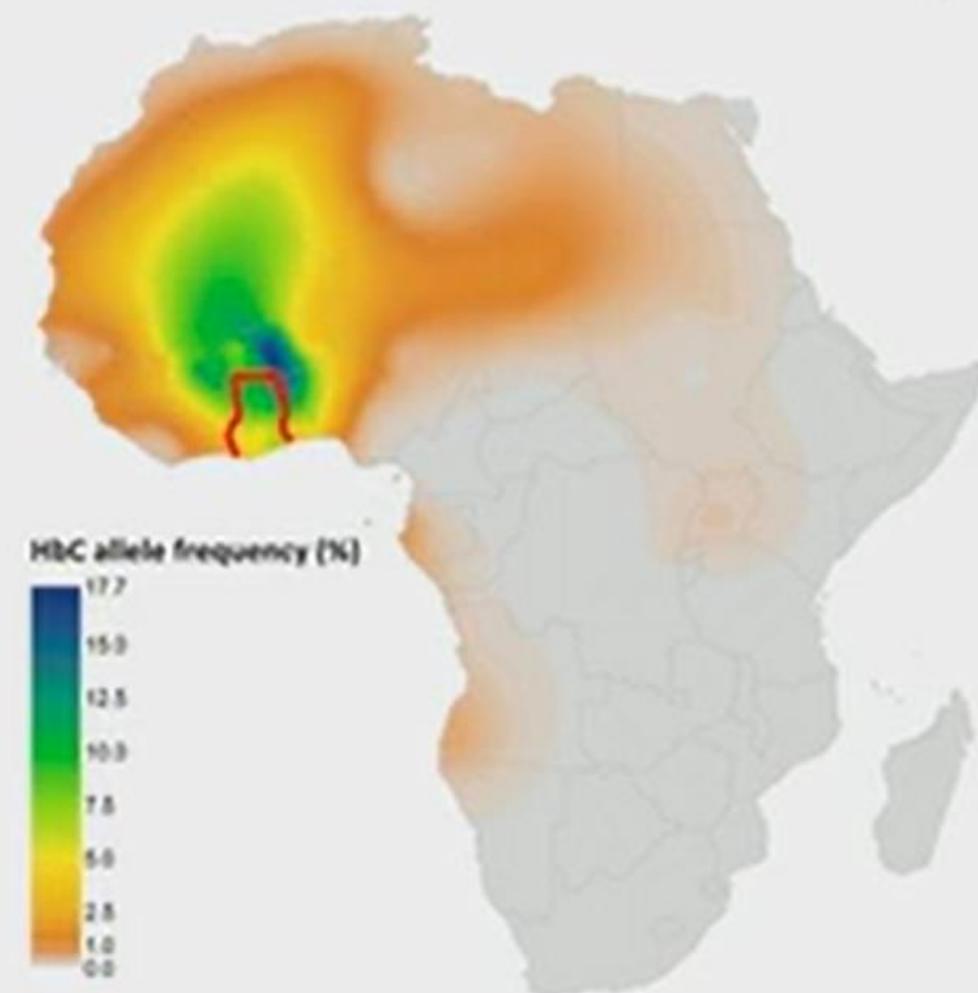




AMERICAN SOCIETY OF HEMATOLOGY

# Hemoglobin SC is the second most common sickle cell disease genotype

Hb S	Hb S	Hemoglobin SS disease
$\beta$ 6Glu-Val	$\beta$ 6Glu-Val	Sickle Cell Anemia
Hb S	Hb C	Hemoglobin SC disease
$\beta$ 6Glu-Val	$\beta$ 6Glu-Lys	



**In Deutschland lebende HbSC-Patienten stammen aus Ghana, Burkina-Faso, Togo, Kamerun, Nigeria - aber auch aus der Karibik und Nord-und Südamerika. Diese Form der Erkrankung wird zu Unrecht oft als "leichte Form der Sichelzell-Anämie" bezeichnet (keine ZNS-Infarkte, selten ATS, selten Niereninsuffizienz, höhere Lebenserwartung als HbSS-Patienten) Die Erkrankung ist weder leicht noch trifft der Begriff "Sichelzellanämie" zu: die Lebensqualität der HbSC-Patienten kann extrem beeinträchtigt werden durch Blindheit und / oder Taubheit und >90% der erwachsenen Patienten haben keine Anämie sondern Hb-Werte im unteren Bereich der Altersnorm.**



## Prospective Identification of Variables as Outcomes for Treatment (PIVOT)

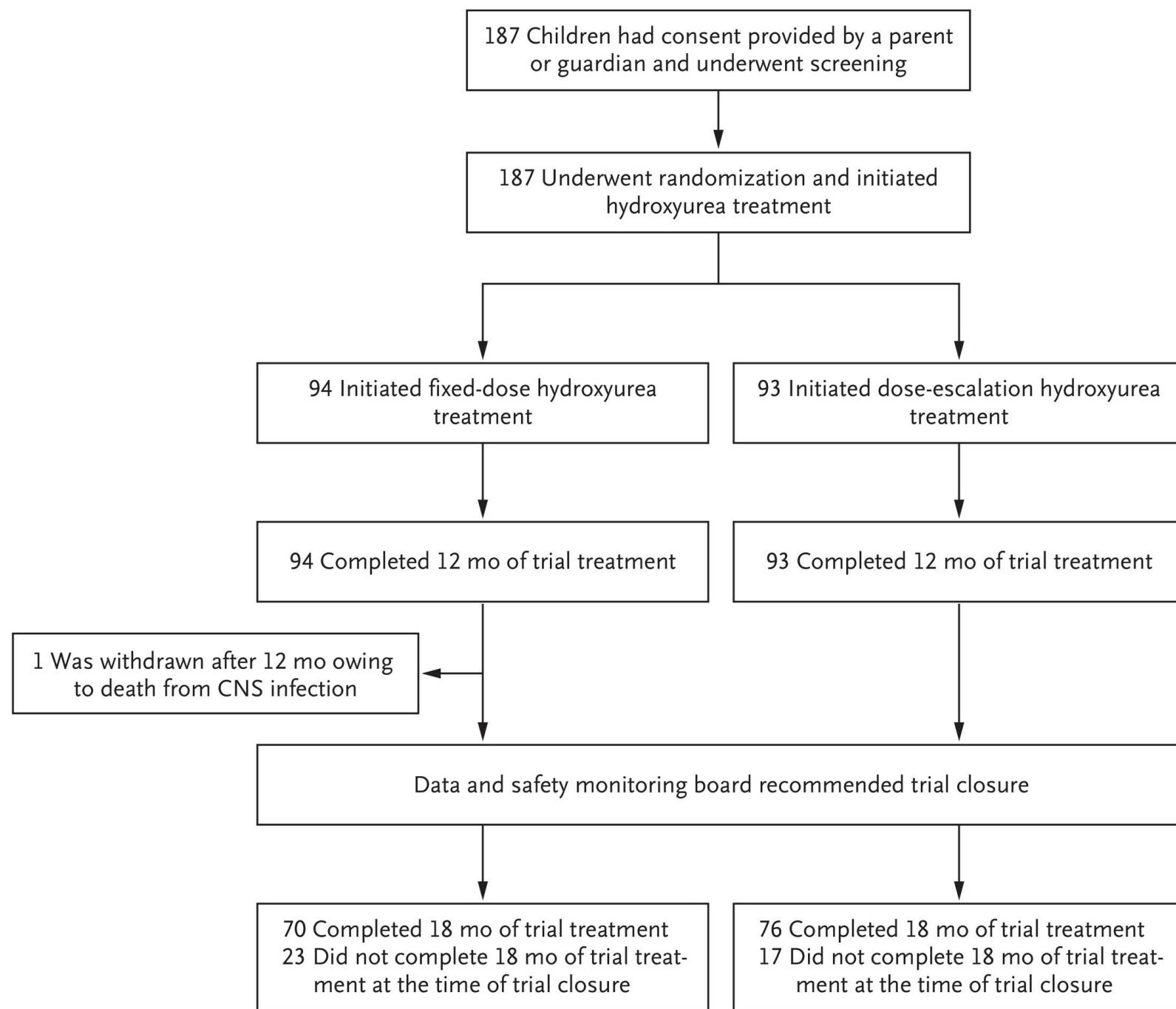
- Double-blind, placebo-controlled Phase 2 trial
- 100 children, 100 adults with HbSC disease
- Age 5-50 years
- 20 mg/kg hydroxyurea vs placebo for 12 months
- Two opportunities for dose escalation
- Open-label continuation if deemed safe

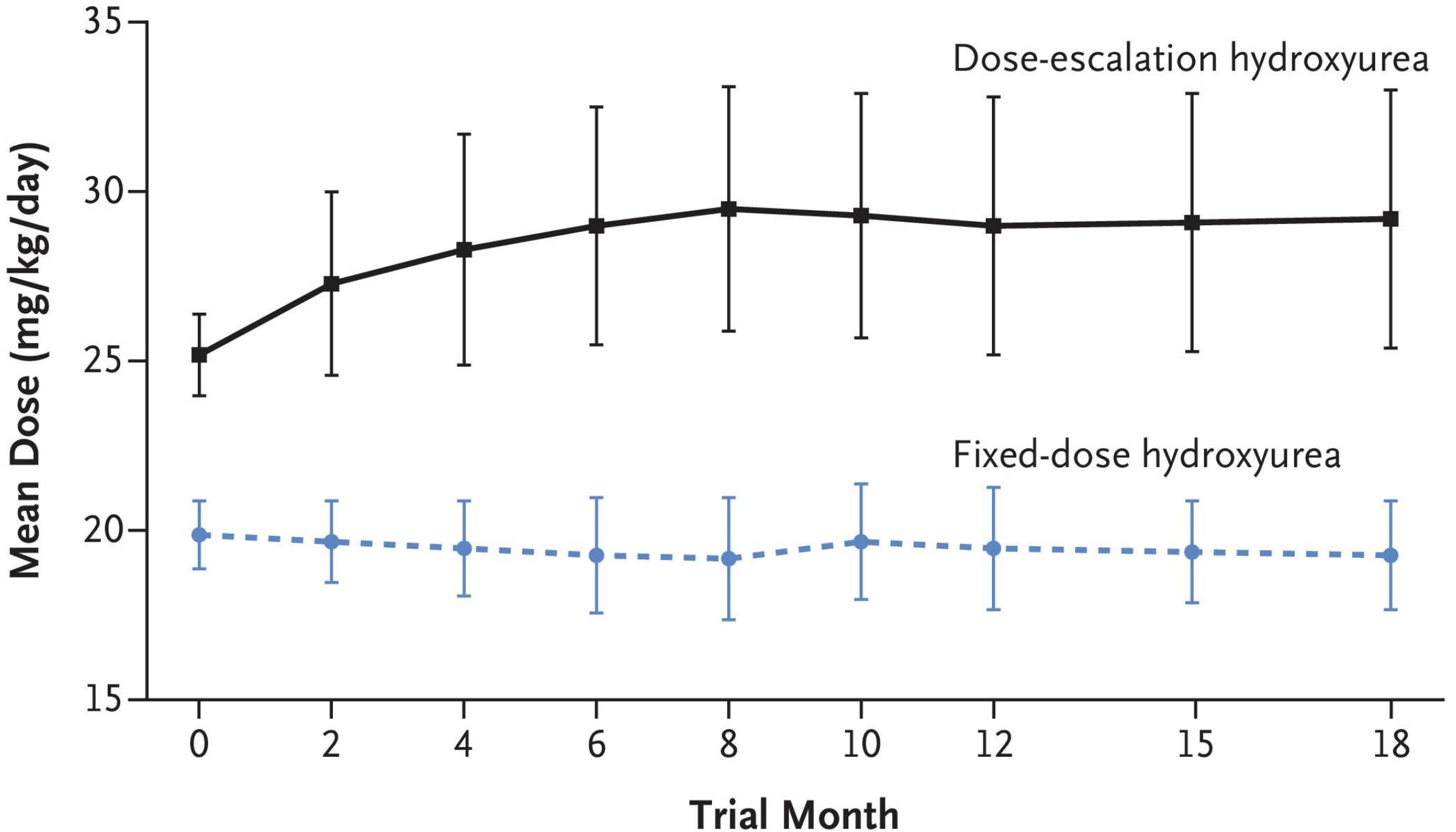


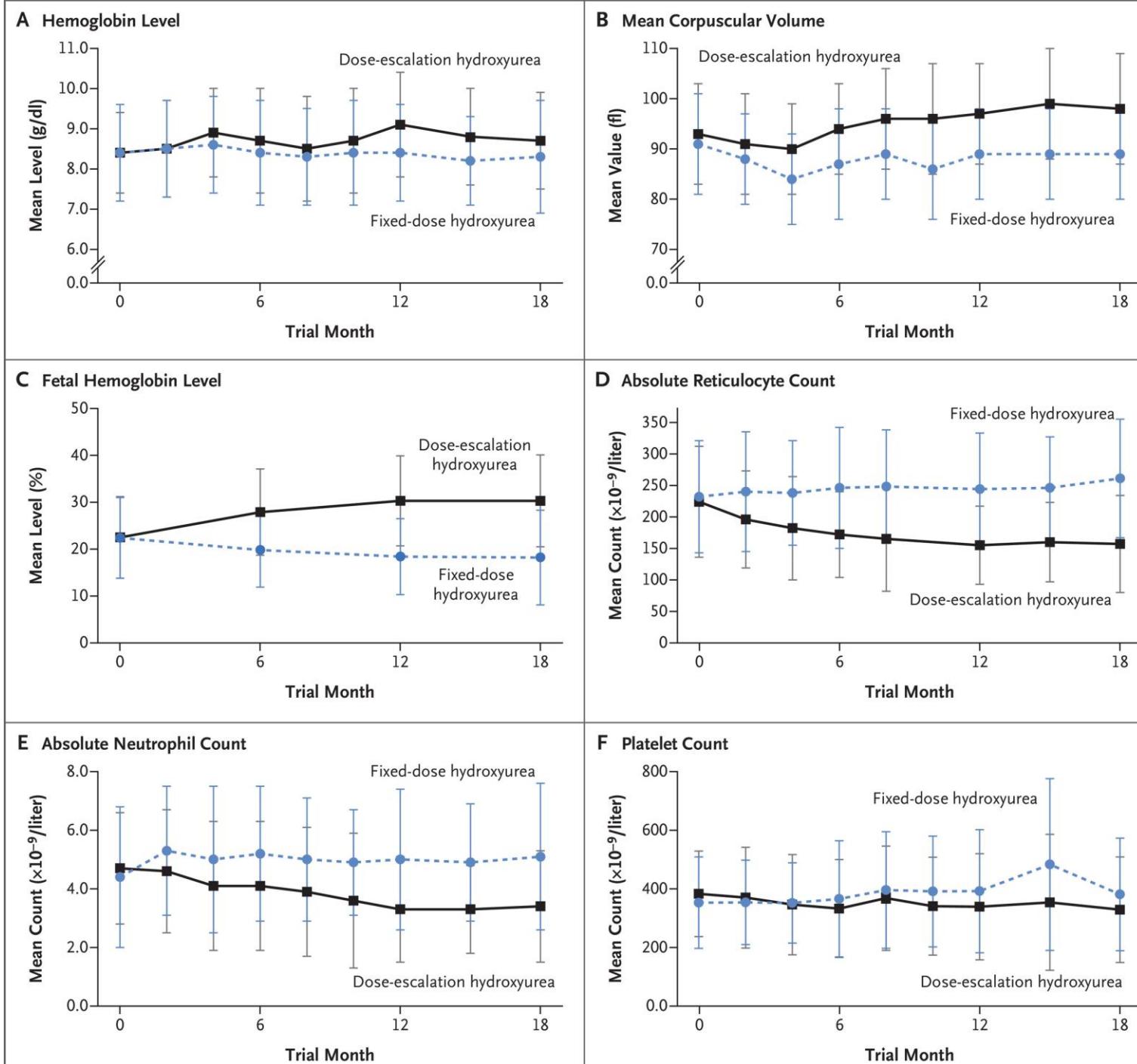


## Study Endpoints

- Primary: dose-limiting toxicities in each treatment arm
  - Non-inferiority design (15% threshold)
  - Cytopenia and high hemoglobin ( $> 12.0 \text{ g/dL}$ ,  $\geq 1.0 \text{ g/dL}$  increase)
- Secondary: laboratory effects, clinical adverse events
  - CBC, reticulocytes, Hb quantification (HbF, S, C)
  - Sickle cell-related events, hospitalizations, malaria









## Summary and Conclusions

- The placebo-controlled Phase 2 PIVOT trial was successfully conducted in Ghana, where HbSC is prevalent and causes morbidity and mortality
- Hydroxyurea treatment at 20mg/kg/day was associated with more DLT than placebo, all asymptomatic, mild, transient and reversible
- Measurable benefits were observed in hematological parameters
- Associated with fewer clinical adverse events
- Hydroxyurea may provide effective disease-modifying therapy for HbSC



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## EXTENDED TREATMENT OF VENOUS THROMBOEMBOLISM WITH REDUCED- VS FULL-DOSE DIRECT ORAL ANTICOAGULANTS IN PATIENTS AT HIGH RISK OF RECURRENCE. THE RENOVE TRIAL

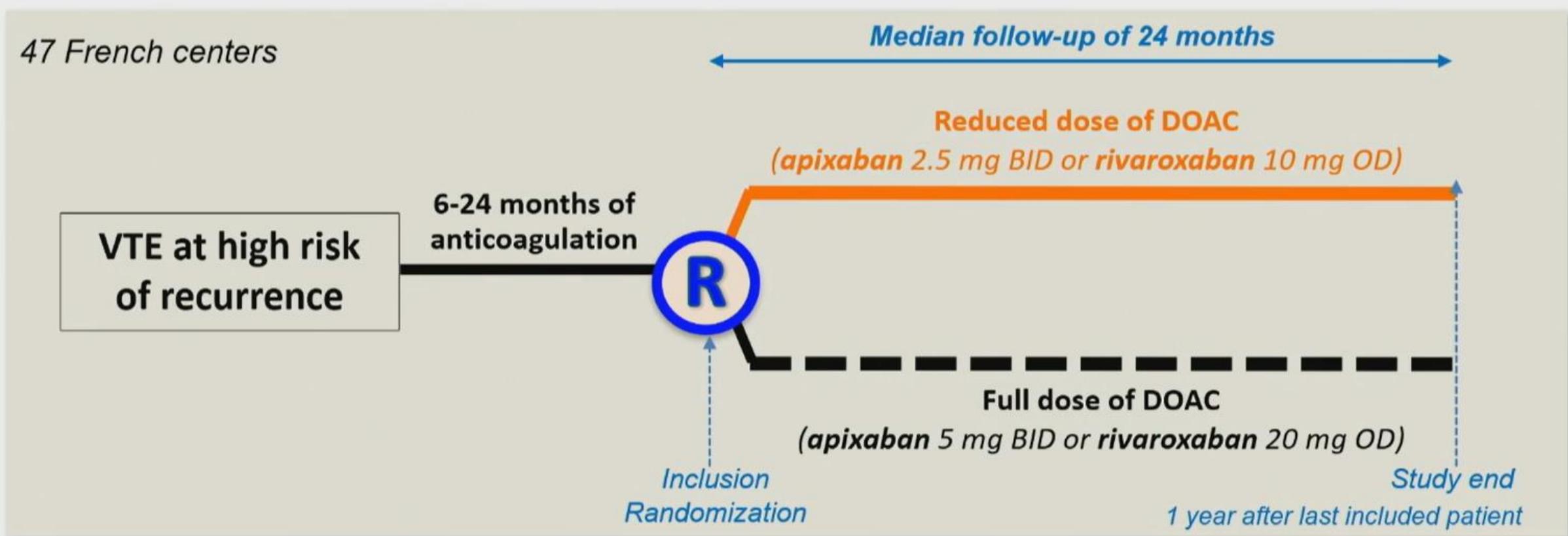


**Francis Couturaud, M.D., Ph.D.**, Jeannot Schmidt, M.D., Ph.D., Olivier Sanchez, M.D., Ph.D., Alice Ballerie, M.D., Marie-Antoinette Sevestre, M.D., Ph.D., Nicolas Meneveau, M.D., Ph.D., Laurent Bertoletti, M.D., Ph.D., Jérôme Connault, M.D., Ph.D., Ygal Benhamou, M.D., Ph.D., Joël Constans, M.D., Ph.D., Thomas Quemeneur, M.D., François-Xavier Lapébie, M.D., Ph.D., Gilles Pernod, M.D., Ph.D., Gaël Picart, M.D., Antoine Elias, M.D., Ph.D., Caroline Doutrelon, M.D., Claire Neveux, M.D., Lina Khider, M.D., Ph.D., Pierre-Marie Roy, M.D., Ph.D., Stéphane Zuily, M.D., Ph.D., Nicolas Falvo, M.D., Philippe Lacroix, M.D., Ph.D., Joseph Emmerich, M.D., Ph.D., Isabelle Mahé, M.D., Ph.D., Julien Boileau, M.D., Azzedine Yaici, M.D., Sylvain Le Jeune, M.D., Dominique Stéphan, M.D., Ph.D., Pierre Plissonneau Duquene, M.D., Valérie Ray, M.D., Marc Danguy des Déserts, M.D., Rafik Belhadj-Chaidi, M.D., Bouchra Lamia, M.D., Ph.D., Gruel Yves, M.D., Ph.D., Emilie Presles, M.S., Philippe Girard, M.D., Cécile Tromeur, M.D., Ph.D., Moustapha Farès, M.D., Ph.D., Vincent Rothstein, M.D., Karine Lacut, M.D., Ph.D., Solen Melac, R.N., Sophie Barillot, M.S., Patrick Mismetti, M.D., Ph.D., Silvy Laporte, M.S., Ph.D., Dominique Mottier, M.D., Ph.D., Guy Meyer, M.D., and Christophe Leroyer, M.D., Ph.D., for the RENOVE Investigators\*

CLINICALTRIALS.GOV #: NCT03285438  
EudraCT #: 2017-002433-31

# Design

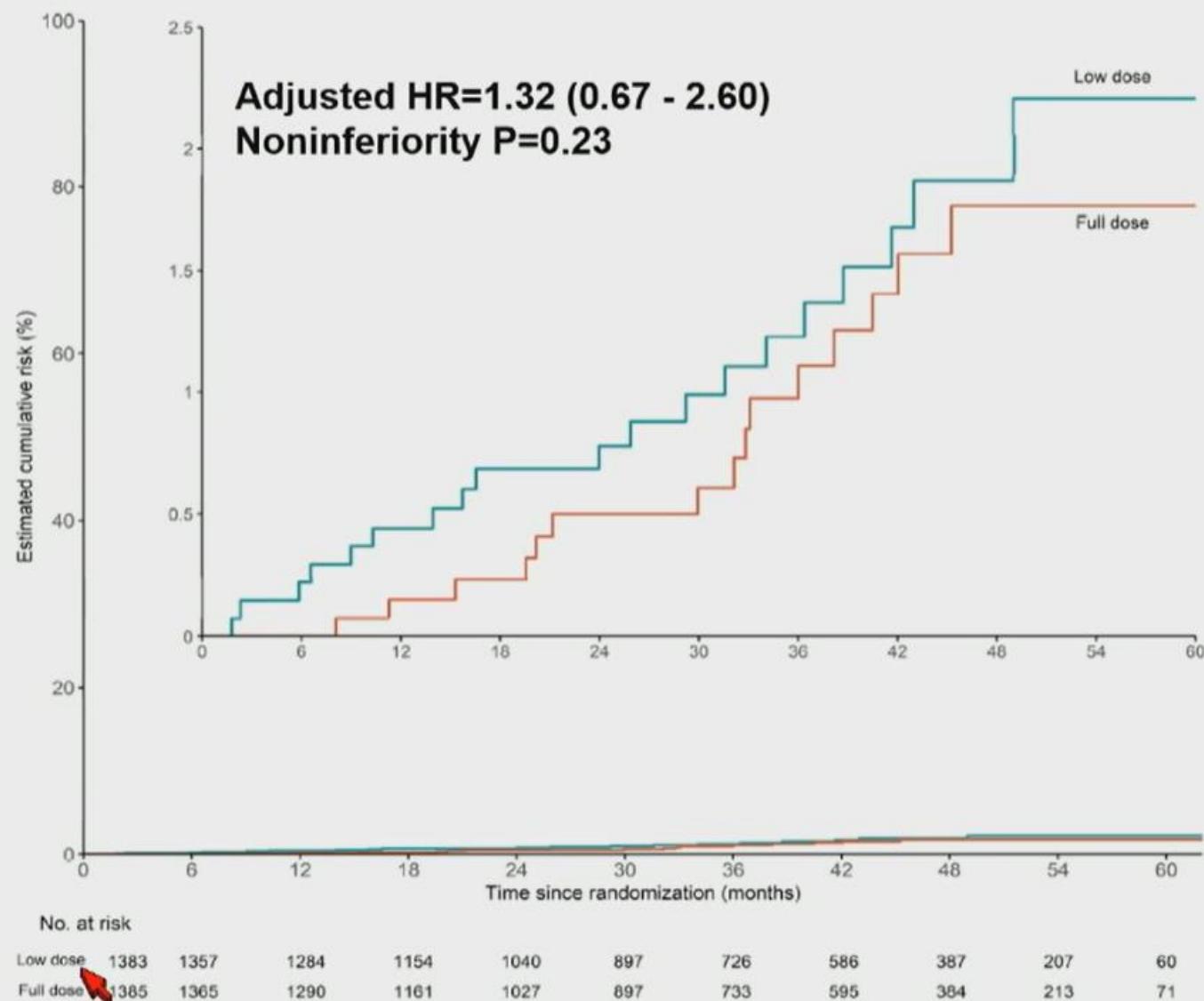
- **Design:** academic, multicenter, randomized, open, blinded end-point (PROBE) trial.
- **Randomization:** central, stratified by center, DOAC (apixaban/rivaroxaban) and antiplatelet agent use.



# Study population

	Reduced Dose (N=1383)	Full Dose (N=1385)
<b>Age - mean (SD), yr</b>	62.2 (14.3)	63.1 (14.3)
<b>Female sex - no. (%)</b>	489 (35.4)	481 (34.7)
<b>BMI <math>\geq 30 \text{ kg/m}^2</math> - no. (%)</b>	428 (31.0)	416 (30.0)
<b>Previous cancer (<math>\geq 6 \text{ m}</math> before index event) - no. (%)</b>	140 (10.1)	129 (9.3)
<b>Family history of VTE - no. (%)</b>	499 (36.1)	481 (34.7)
<b>Characteristics of index event - no. (%)</b>		
Symptomatic PE with or without DVT	1178 (85.4)	1192 (86.3)
PE at intermediate-high or high risk of death	230 (19.5)	247 (20.7)
Symptomatic isolated proximal DVT	201 (14.6)	189 (13.7)

# Cumulative incidence of symptomatic recurrent VTE during the treatment period (primary outcome)



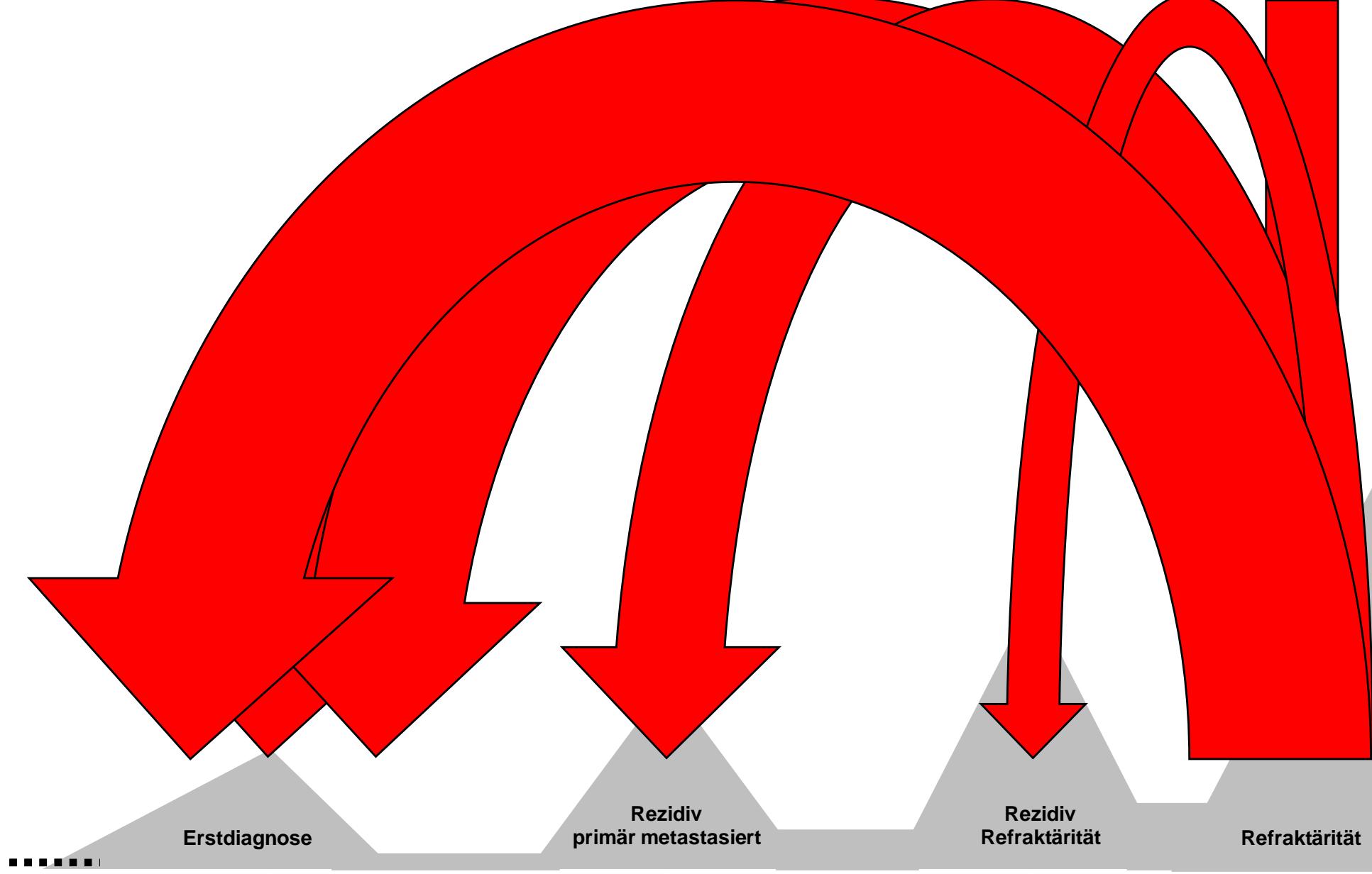
# Secondary outcomes

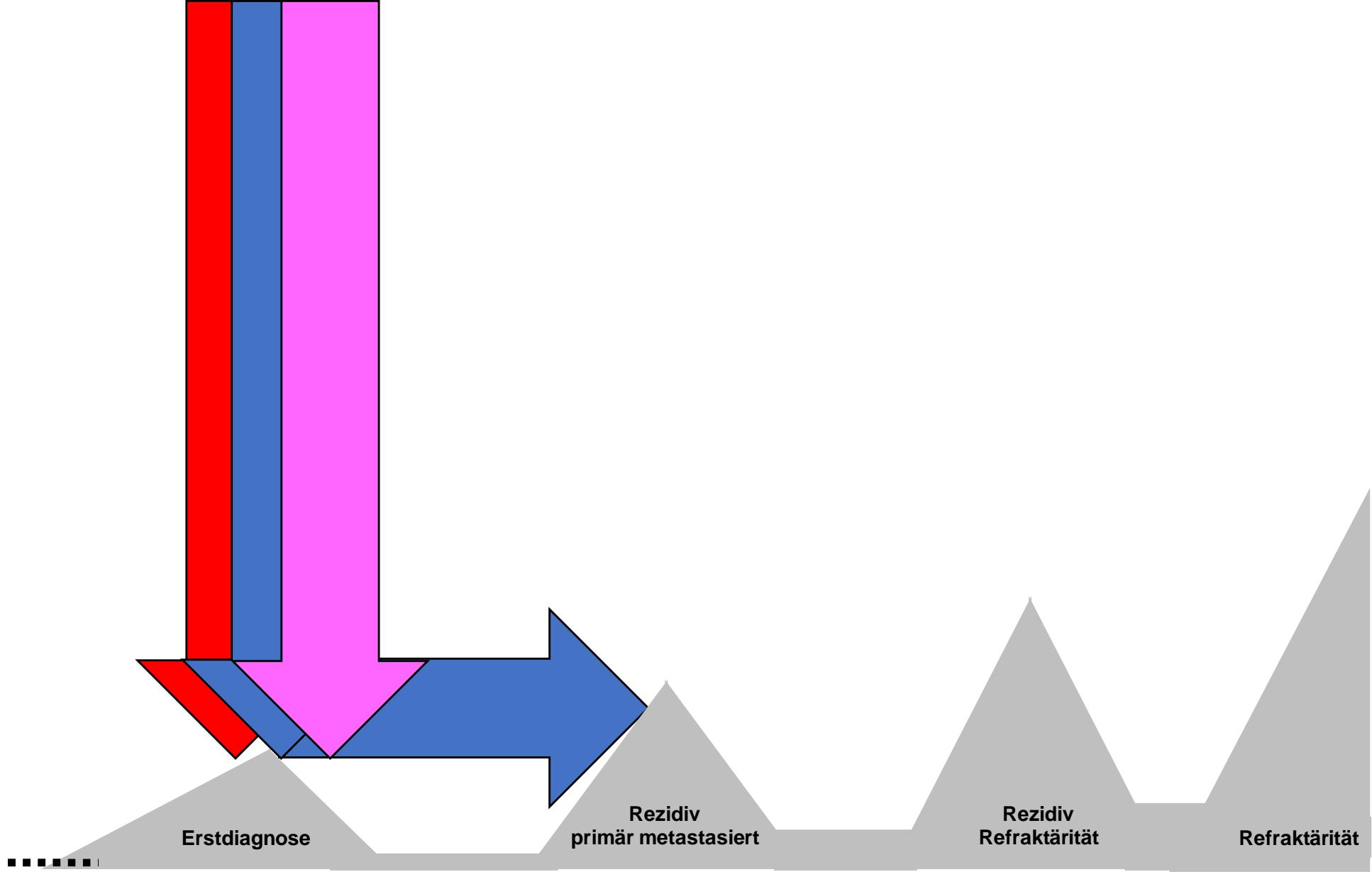
5-year cumulative incidence

	Reduced Dose (N=1383)	Full Dose (N=1385)	Adjusted HR (95% CI)	P-Value
<b><i>Key secondary outcomes</i></b>				
<b>Clinically relevant bleeding - no. (%)</b>	<b>96</b> (9.9)	<b>154</b> (15.2)	<b>0.61</b> (0.48 - 0.79)	
Major bleeding	15 (2.1)	38 (4.0)	0.40 (0.22 - 0.72)	
Fatal	2	3		
Clinically relevant non major bleeding	84 (8.6)	118 (11.5)	0.70 (0.53 - 0.93)	
<b>Composite (recurrent VTE, or clinically relevant bleeding) - no. (%)</b>	<b>113</b> (11.8)	<b>166</b> (16.5)	<b>0.67</b> (0.53 - 0.86)	

# Conclusions

- DOAC dose reduction, in patients with VTE who need extended anticoagulation, **did not meet the study noninferiority criteria**.
- **Rates of recurrent VTE were low** in both the reduced- and full-dose groups.
- In the reduced-dose group, **clinically relevant bleeding and the composite of recurrent VTE or clinically relevant bleeding were lower** than in the full-dose group and did not appear to be offset by an increased risk of death or arterial thromboembolic events.
- These findings will be useful to **strengthen future guidelines and enrich shared-decision making process** for patients with VTE who need extended anticoagulation.

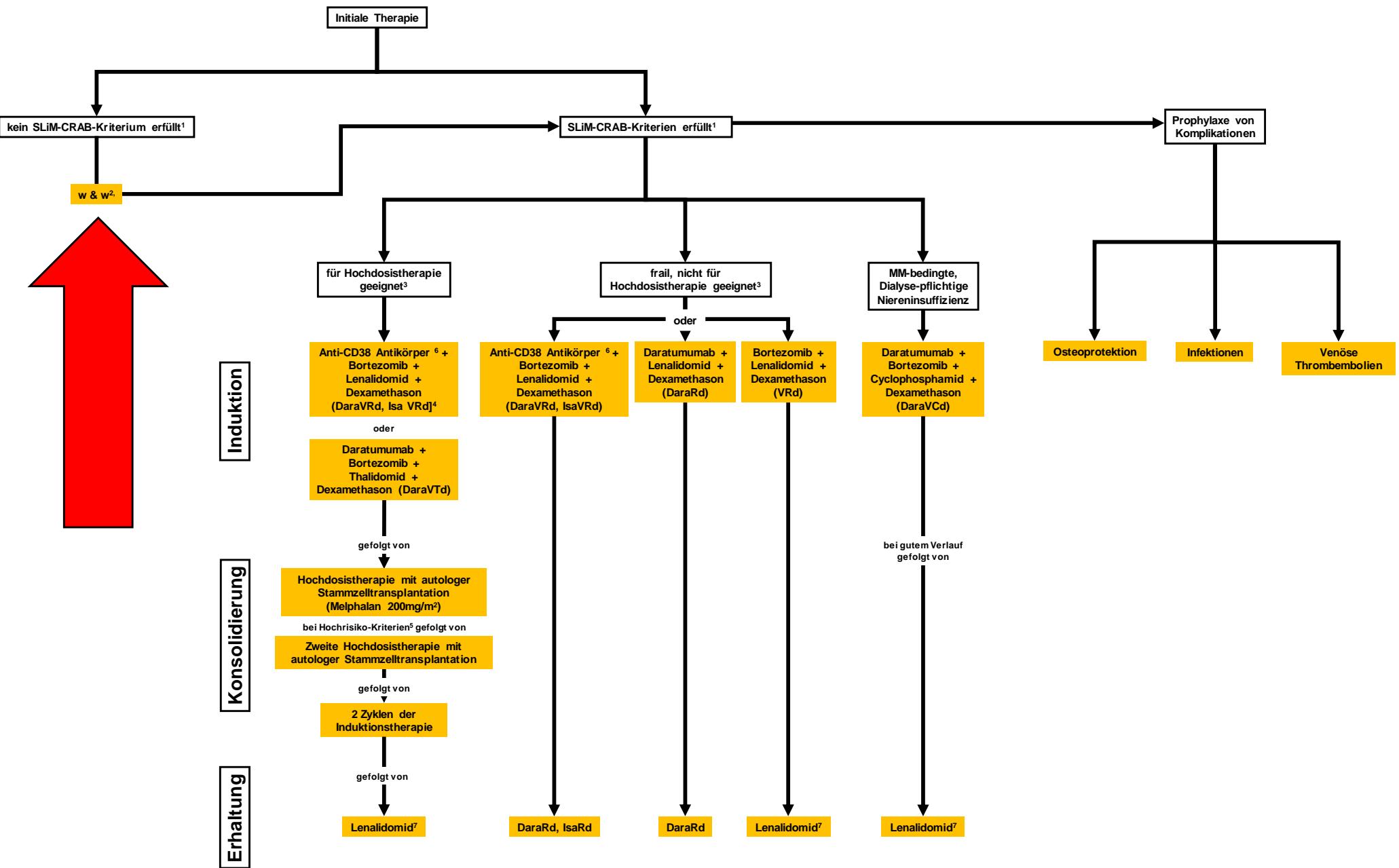




# Multiples Myelom

## Smouldering Myeloma

Diagnose	MGUS <sup>1</sup>	Schwellendes Myelom (smouldering myeloma)	Multiples Myelom	Solitäres Plasmozytom	Plasmazell-Leukämie
Kriterien					
Klonale Plasmazellen im Knochenmark	< 10 %	≥ 10 – 60 %	≥ 10 %	≥ 60 %	< 10 %
	und	und / oder	und / oder	oder	und
Monoklonales Protein im Serum	< 30 g / l	≥ 30 g / l	nachweisbar		nicht obligat nachweisbar
	und	und / oder	und / oder		und
Monoklonales Protein im Urin	< 500 mg / 24 h <sup>3</sup>	≥ 500 mg / 24 h <sup>3</sup>	nachweisbar		nicht obligat nachweisbar
	und	und	und		und
Endorganschäden <sup>2</sup>	nicht nachweisbar	nicht nachweisbar	nachweisbar		nicht nachweisbar
	und				und
	abnormaler freier Leichtketten-Quotient <sup>3</sup>			abnormaler freier Leichtketten-Quotient ≥ 100 und betroffene Leichtkette ≥ 100mg/L	singuläre Knochenmanifestation oder extramedulläre Manifestation in MRT / CT
				oder	und
			≥ 1 Herdbefund im MRT	klonale Plasmazellen biotisch gesichert	und / oder
				> 5% klonale Plasmazellen im Differentialblutbild <sup>4</sup>	



# Phase 3 Randomized Study of Daratumumab Monotherapy Versus Active Monitoring in Patients With High-risk Smoldering Multiple Myeloma: Primary Results of the AQUILA Study

Meletios A Dimopoulos<sup>1</sup>, Peter M Voorhees<sup>2</sup>, Fredrik Schjesvold<sup>3</sup>, Yael C Cohen<sup>4</sup>, Vania Hungria<sup>5</sup>, Irwinder Sandhu<sup>6</sup>, Jindriska Lindsay<sup>7</sup>, Ross I Baker<sup>8</sup>, Kenshi Suzuki<sup>9</sup>, Hiroshi Kosugi<sup>10</sup>, Mark-David Levin<sup>11</sup>, Meral Beksaç<sup>12</sup>, Keith Stockerl-Goldstein<sup>13</sup>, Albert Oriol<sup>14</sup>, Gabor Mikala<sup>15</sup>, Gonzalo Garate<sup>16</sup>, Koen Theunissen<sup>17</sup>, Ivan Spicka<sup>18</sup>, Anne K Mylin<sup>19</sup>, Sara Bringhen<sup>20</sup>, Katarina Uttervall<sup>21</sup>, Bartosz Pula<sup>22</sup>, Eva Medvedova<sup>23</sup>, Andrew J Cowan<sup>24</sup>, Philippe Moreau<sup>25</sup>, Maria-Victoria Mateos<sup>26</sup>, Hartmut Goldschmidt<sup>27</sup>, Tahamtan Ahmadi<sup>28</sup>, Linlin Sha<sup>29</sup>, Els Rousseau<sup>30</sup>, Liang Li<sup>29</sup>, Robyn M Dennis<sup>31</sup>, Robin Carson<sup>32</sup>, S Vincent Rajkumar<sup>33</sup>

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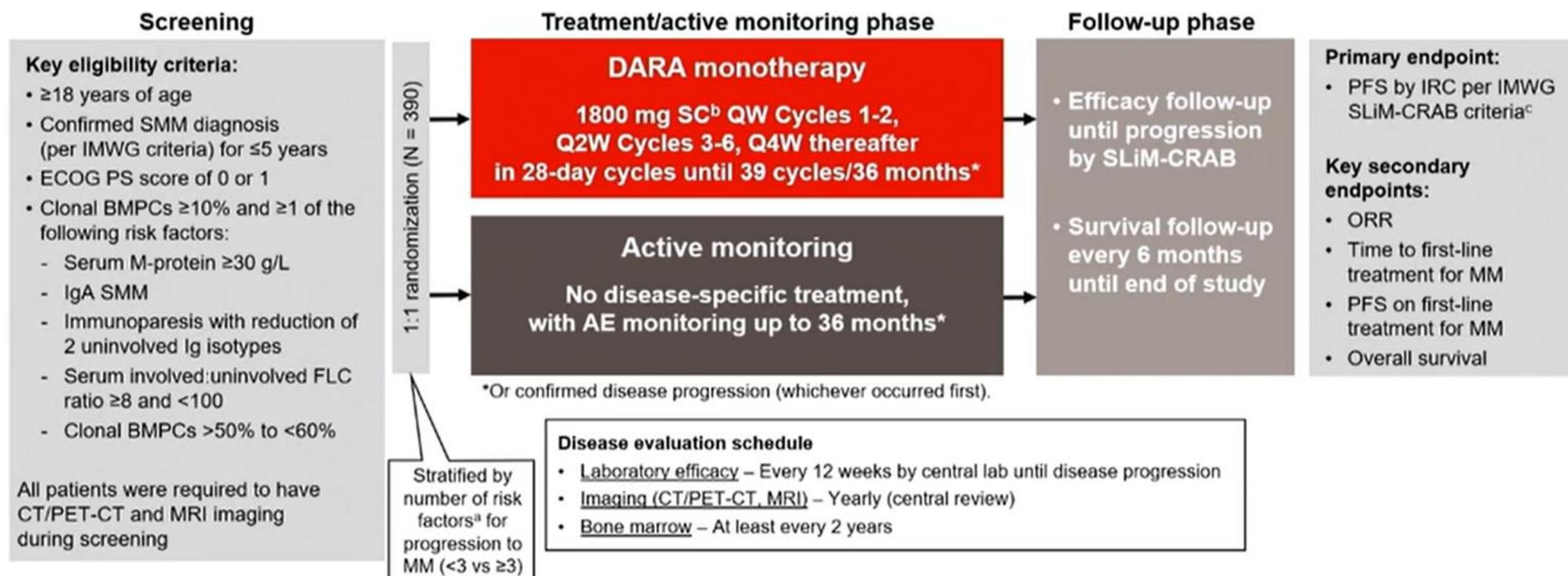
<https://www.congresshub.com/ASH2024/Oncology/DaratumumabDimopoulos>

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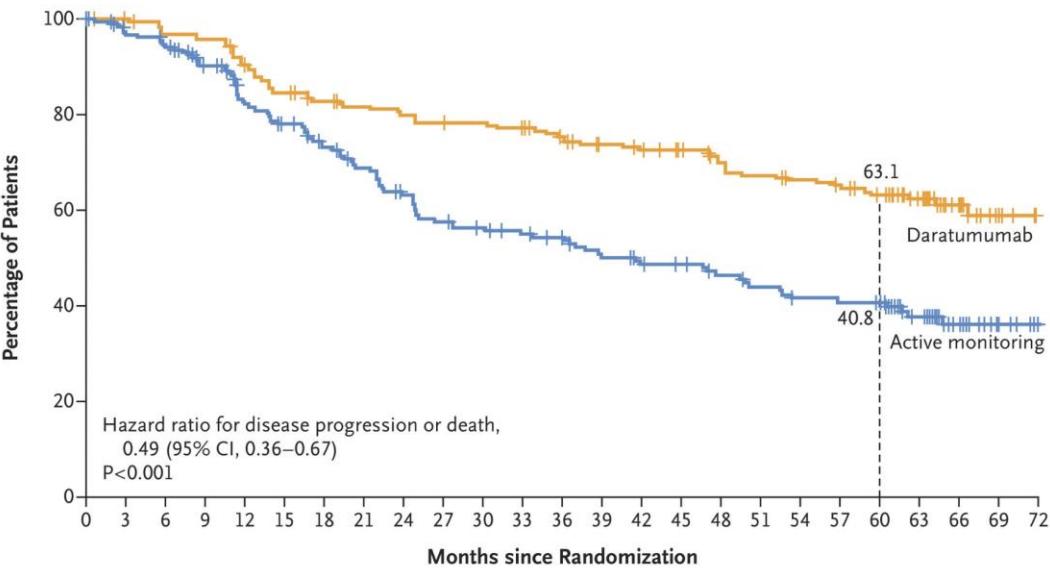
# AQUILA: Study Design

AQUILA enrollment period: December 2017 to May 2019 at 124 sites in 23 countries

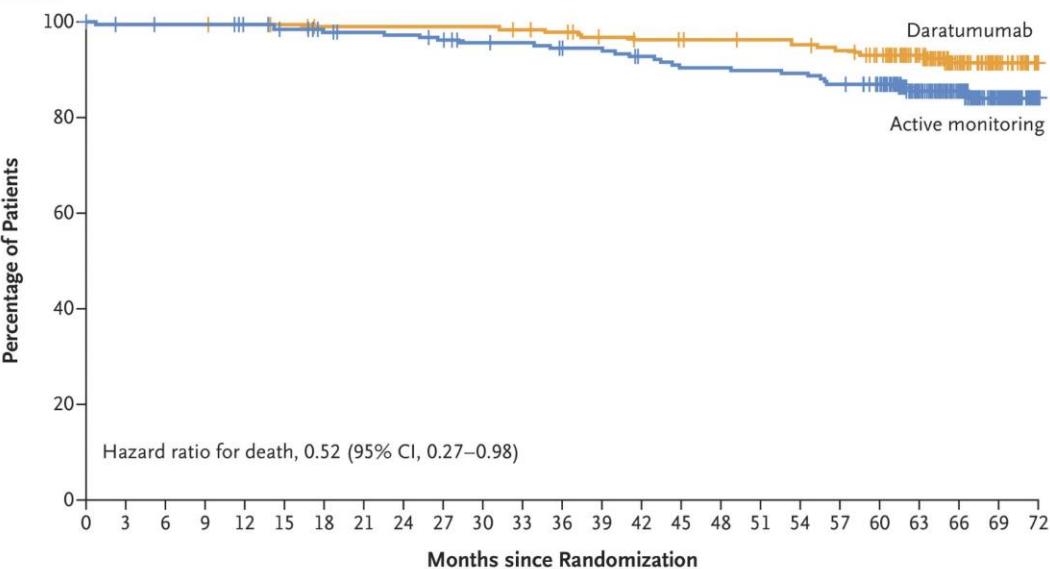


IMWG, International Myeloma Working Group; ECOG PS, Eastern Cooperative Oncology Group performance status; BMPC, bone marrow plasma cell; FLC, free light chain; CT, computed tomography; MRI, magnetic resonance imaging; QW, weekly; Q2W, every 2 weeks; Q4W, every 4 weeks; AE, adverse event; IRC, independent review committee; ORR, overall response rate. \*Risk factors included involved:uninvolved FLC ratio ≥8 (yes vs no), serum M-protein ≥30 g/L (yes vs no), IgA SMM (yes vs no), immunoparesis (reduction of 2 uninvolved immunoglobulins vs other), or clonal BMPCs (>50% to <60% vs ≤50%). <sup>b</sup>DARA SC (1800 mg co-formulated with recombinant human hyaluronidase PH20 [rHuPH20; 2,000 U/ml; ENHANZE® drug delivery technology; Halozyme, Inc.]). <sup>c</sup>PFS was defined as duration from randomization to initial documented progression to active MM or death due to any cause, whichever occurred first.



**A Progression-free Survival****No. at Risk**

Daratumumab	194 188 181 179 166 156 149 145 142 139 138 135 129 121 118 114 106 102 99 96 90 67 49 33 19 8 6
Active monitoring	196 180 175 160 142 131 120 111 100 91 87 83 78 71 67 65 60 55 51 50 49 33 19 8 2

**B Overall Survival****No. at Risk**

Daratumumab	194 194 194 193 192 191 188 188 188 188 186 184 179 177 176 175 174 172 169 162 128 86 38 11
Active monitoring	196 192 191 191 187 183 179 177 176 173 169 168 165 164 159 155 154 153 149 144 108 68 34 9

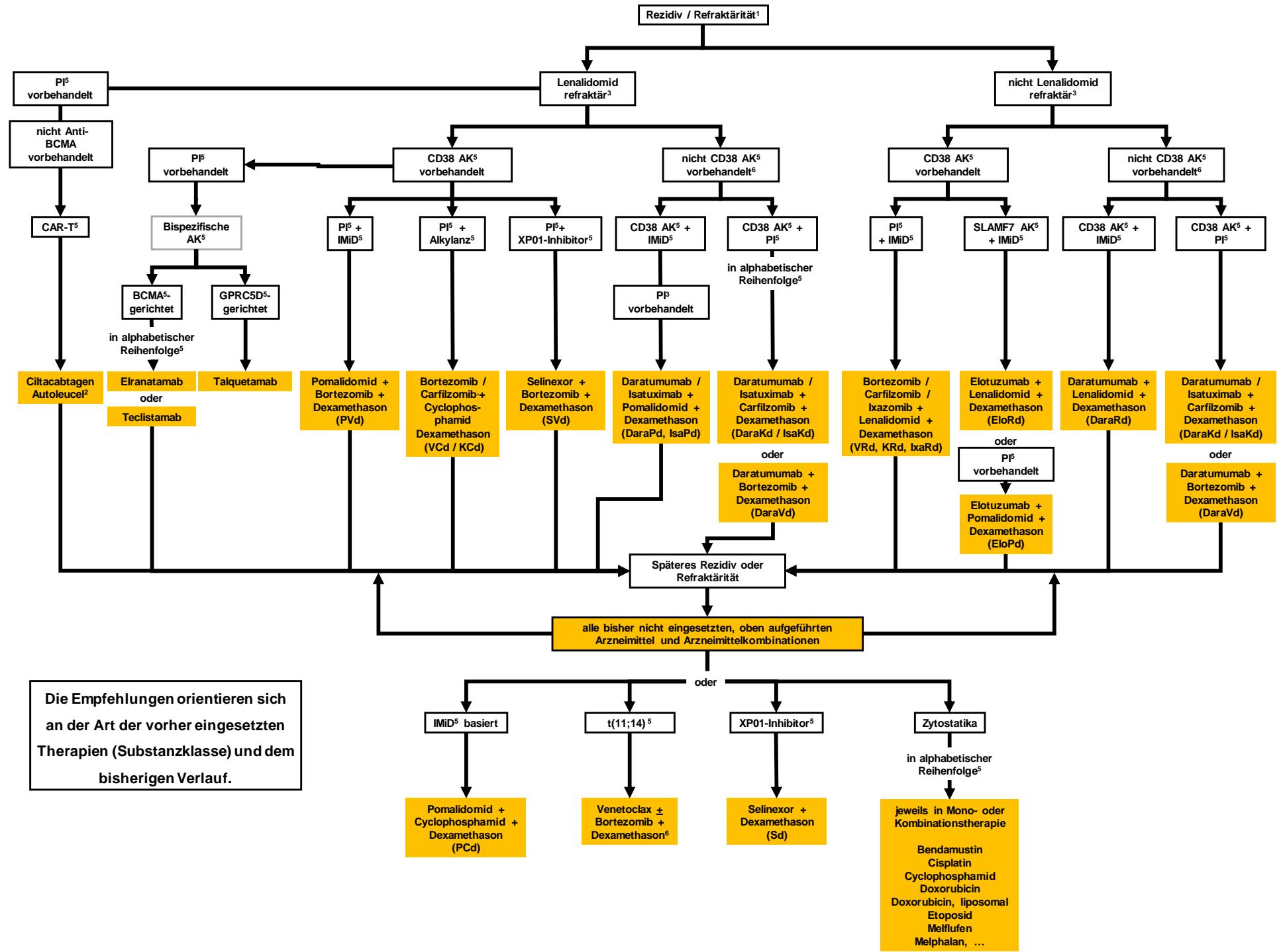
# AQUILA: AEs of Special Interest

Event, n (%)	DARA (n = 193)	Active monitoring (n = 196)
Systemic infusion-related reactions	32 (16.6)	–
Grade 3 or 4	2 (1.0)	–
Local injection-site reactions	53 (27.5)	–
Grade 3 or 4	0	–
Second primary malignancies	18 (9.3)	20 (10.2)
Noncutaneous	9 (4.7)	11 (5.6)
Cutaneous	7 (3.6)	3 (1.5)
Hematologic	3 (1.6)	6 (3.1)

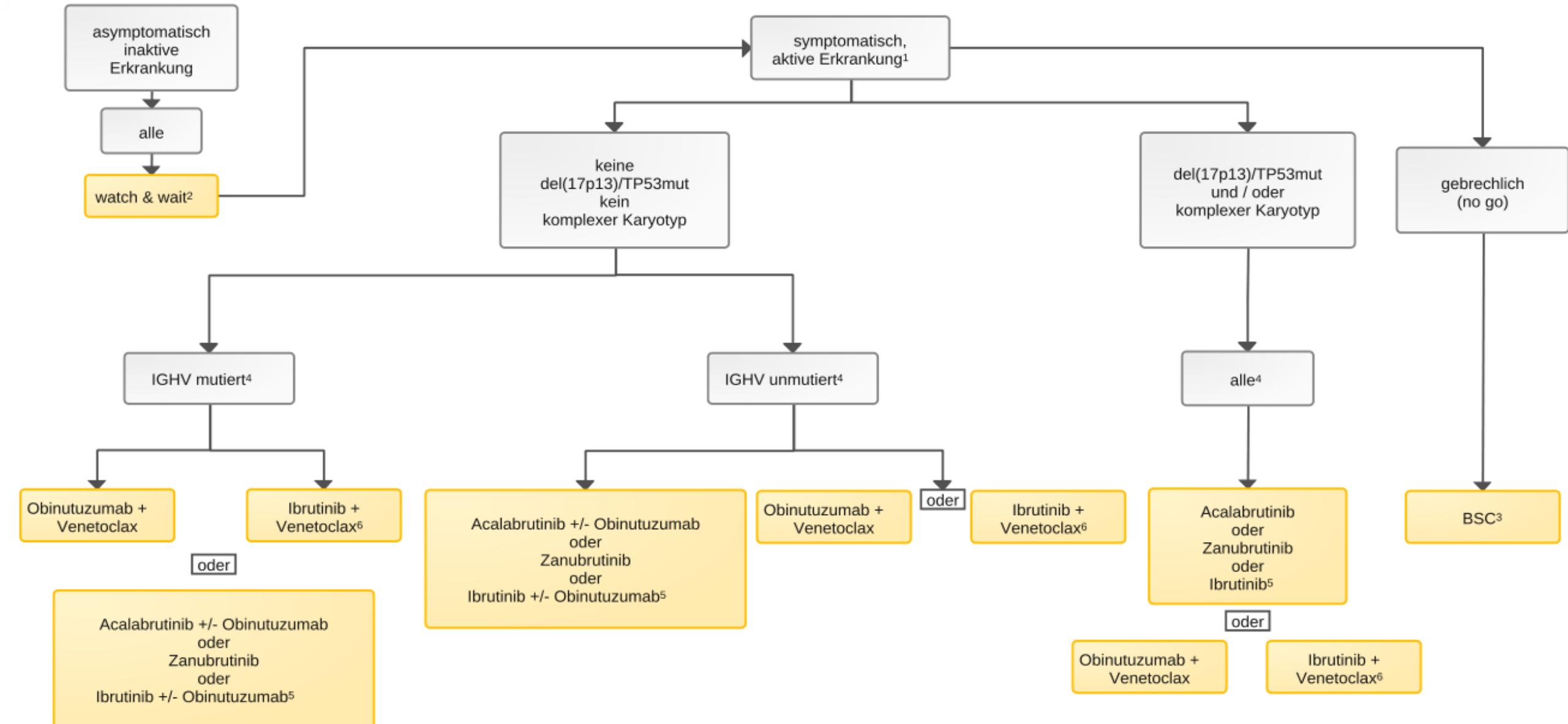
Event, n (%)	DARA (n = 193)	Active monitoring (n = 196)
Cytopenias (all grades)	23 (11.9)	24 (12.2)
Neutropenia	13 (6.7)	5 (2.6)
Anemia	9 (4.7)	19 (9.7)
Thrombocytopenia	4 (2.1)	3 (1.5)
Lymphopenia	3 (1.6)	1 (0.5)
Grade 3 or 4 infections	31 (16.1)	9 (4.6)
Number of grade 3 or 4 infections	37	11
Recovered or resolved	35 (94.6)	8 (72.7)
Median duration of infection	9 days	5 days

- Grade 3 or 4 infections were of short duration, and the majority recovered or resolved
  - Comparable frequency of second primary malignancies





# Erstlinientherapie der CLL



# AMPLIFY: Studiendesign

**TN CLL (N=867)**

**Key inclusion criteria**

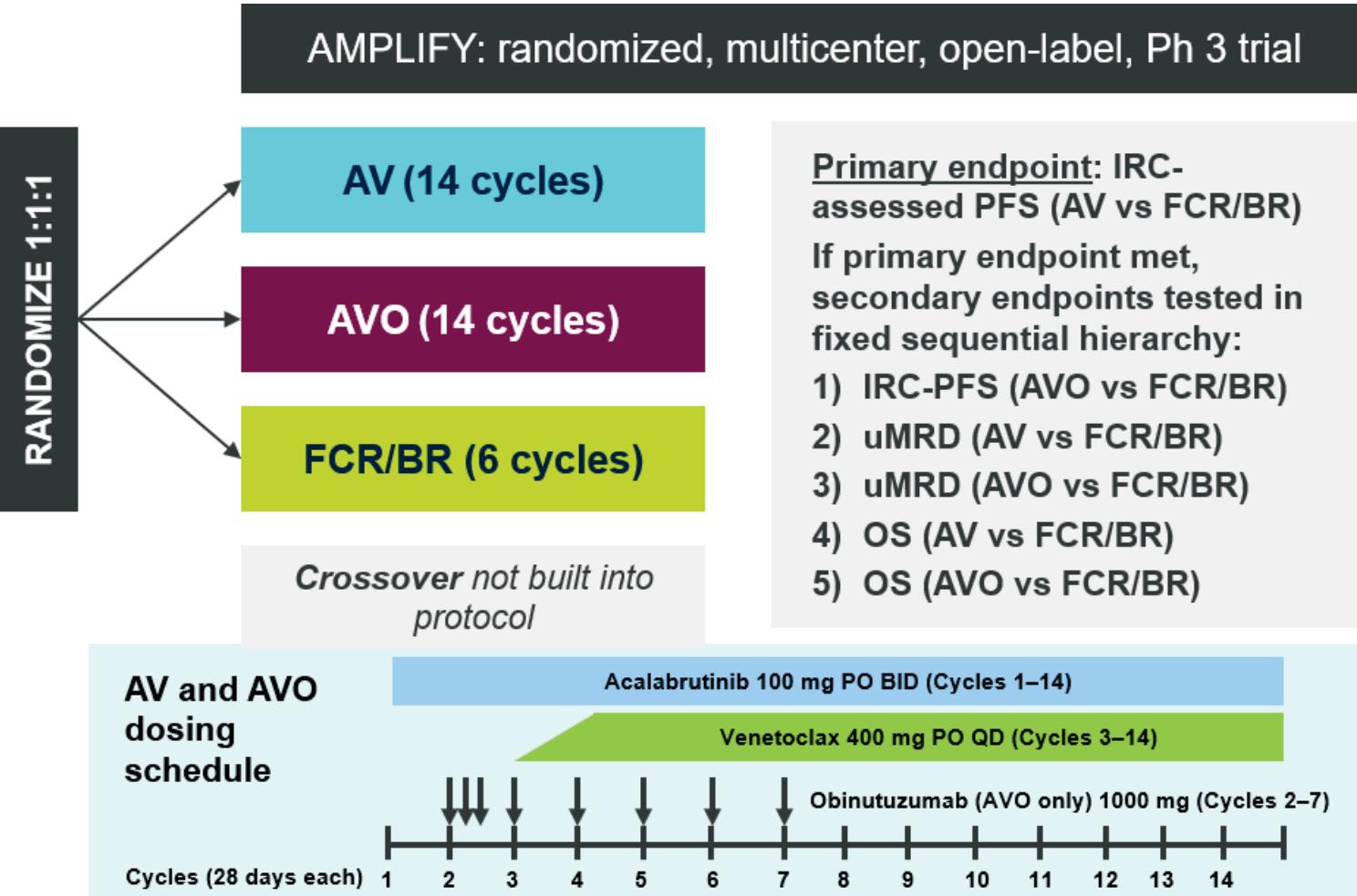
- Age  $\geq 18$  years
- TN CLL requiring treatment per iwCLL 2018 criteria<sup>1</sup>
- Without del(17p) or TP53<sup>a</sup>
- ECOG PS  $\leq 2$

**Key exclusion criteria**

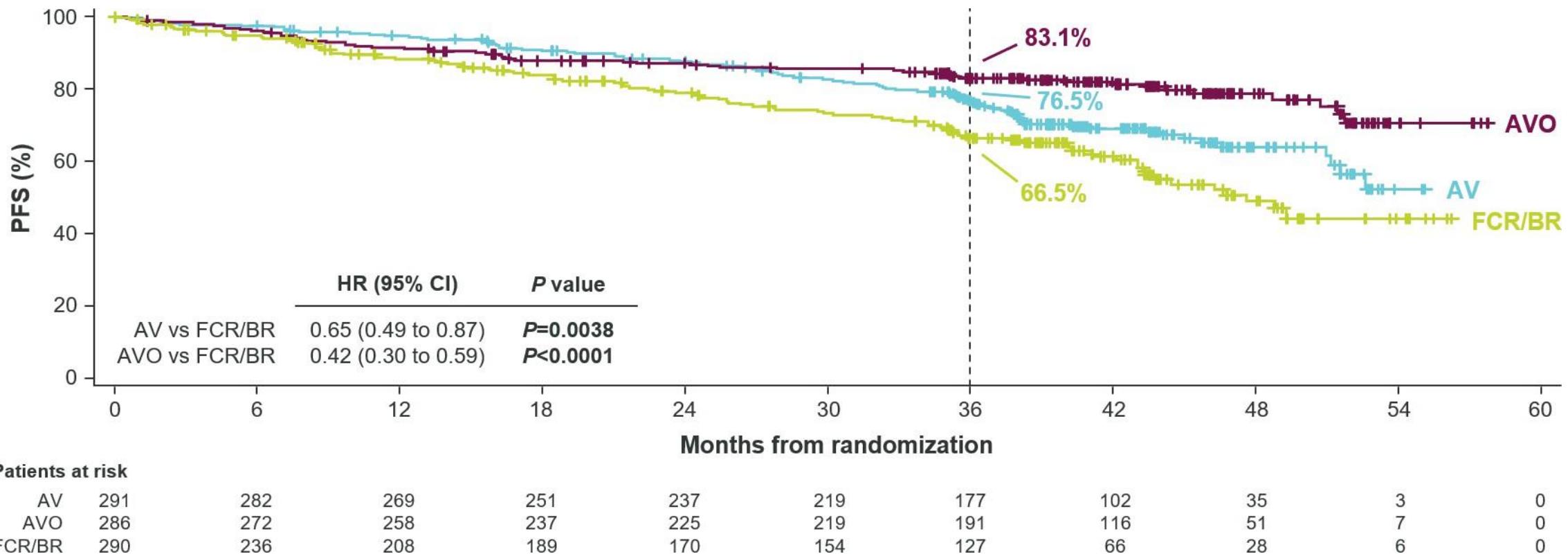
- CIRS-Geriatric  $> 6$
- Significant cardiovascular disease

**Stratification**

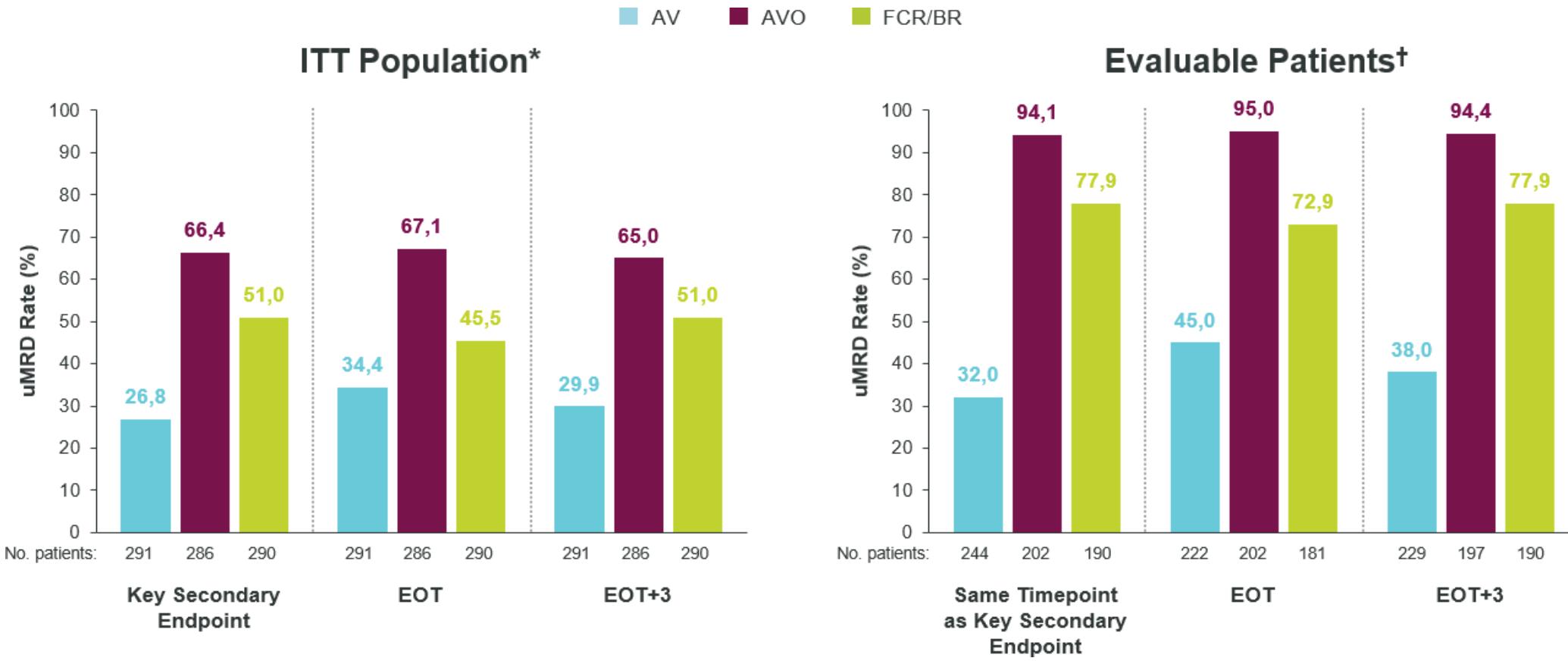
- Age ( $> 65$  vs  $\leq 65$  years)
- IGHV mutational status
- Rai stage ( $\geq 3$  vs  $< 3$ )
- Geographic region



# AMPLIFY: Primärer Endpunkt: PFS



# AMPLIFY: Minimal residual disease (MRD) nach Durchflusszytometrie

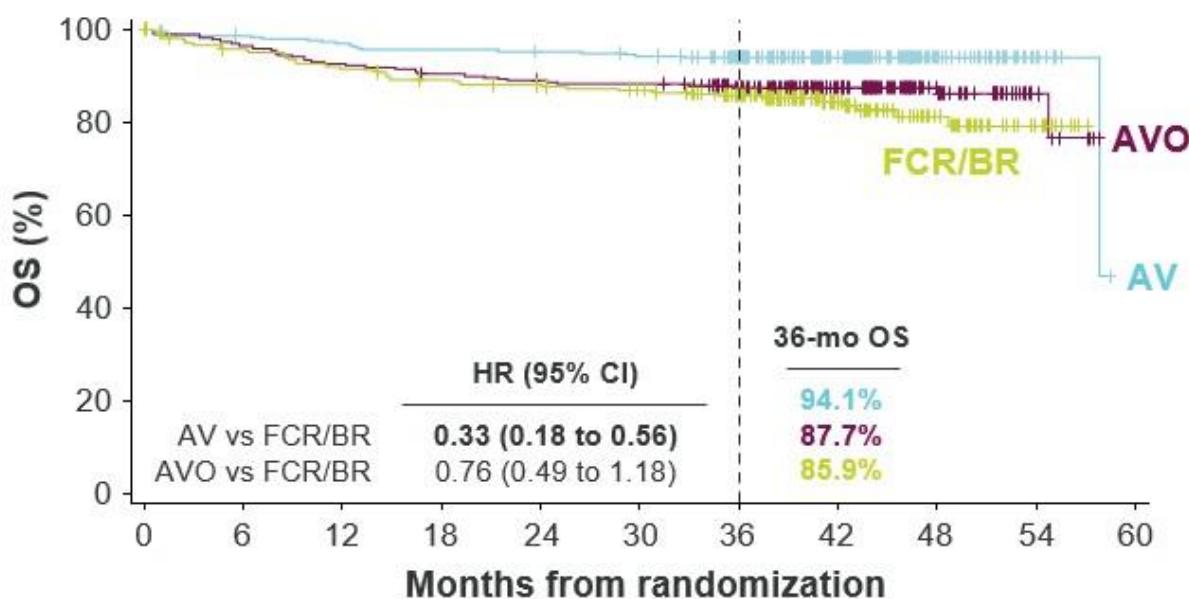


# AMPLIFY: Nebenwirkungen: alle

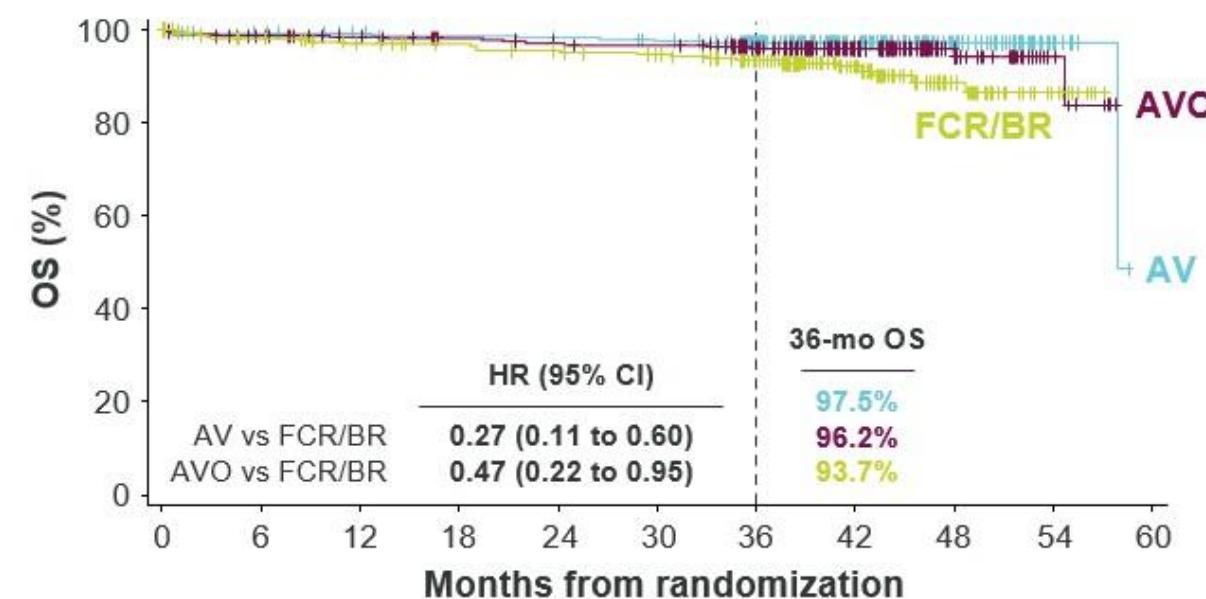
Preferred Term	AV (n=291)		AVO (n=284)		FCR/BR (n=259)	
	Any Grade	Grade ≥3	Any Grade	Grade ≥3	Any Grade	Grade ≥3
<b>Neutropenia</b>	<b>90 (30.9)</b>	<b>78 (26.8)</b>	<b>114 (40.1)</b>	<b>100 (35.2)</b>	<b>99 (38.2)</b>	<b>84 (32.4)</b>
Diarrhea	95 (32.6)	5 (1.7)	103 (36.3)	4 (1.4)	28 (10.8)	1 (0.4)
<b>Headache</b>	<b>102 (35.1)</b>	<b>4 (1.4)</b>	<b>80 (28.2)</b>	<b>1 (0.4)</b>	<b>20 (7.7)</b>	<b>1 (0.4)</b>
Nausea	43 (14.8)	0	62 (21.8)	2 (0.7)	93 (35.9)	0
<b>Infusion-related reaction</b>	<b>0</b>	<b>0</b>	<b>56 (19.7)</b>	<b>6 (2.1)</b>	<b>85 (32.8)</b>	<b>9 (3.5)</b>
<b>COVID-19</b>	<b>55 (18.9)</b>	<b>8 (2.7)</b>	<b>58 (20.4)</b>	<b>19 (6.7)</b>	<b>6 (2.3)</b>	<b>4 (1.5)</b>
Pyrexia	17 (5.8)	1 (0.3)	44 (15.5)	5 (1.8)	47 (18.1)	6 (2.3)
Contusion	40 (13.7)	0	44 (15.5)	0	4 (1.5)	0
Neutrophil count decreased	18 (6.2)	16 (5.5)	29 (10.2)	29 (10.2)	27 (10.4)	22 (8.5)
Thrombocytopenia	13 (4.5)	4 (1.4)	24 (8.5)	17 (6.0)	33 (12.7)	22 (8.5)
<b>COVID-19 pneumonia</b>	<b>21 (7.2)</b>	<b>16 (5.5)</b>	<b>35 (12.3)</b>	<b>33 (11.6)</b>	<b>7 (2.7)</b>	<b>7 (2.7)</b>
<b>Febrile neutropenia</b>	<b>5 (1.7)</b>	<b>5 (1.7)</b>	<b>7 (2.5)</b>	<b>7 (2.5)</b>	<b>24 (9.3)</b>	<b>24 (9.3)</b>
Anemia	20 (6.9)	11 (3.8)	13 (4.6)	6 (2.1)	25 (9.7)	17 (6.6)

# ΔMPI IFY· Froehnisse

## With AV vs FCR/BR



## With AV and AVO vs FCR/BR (COVID-19 Deaths Censored)



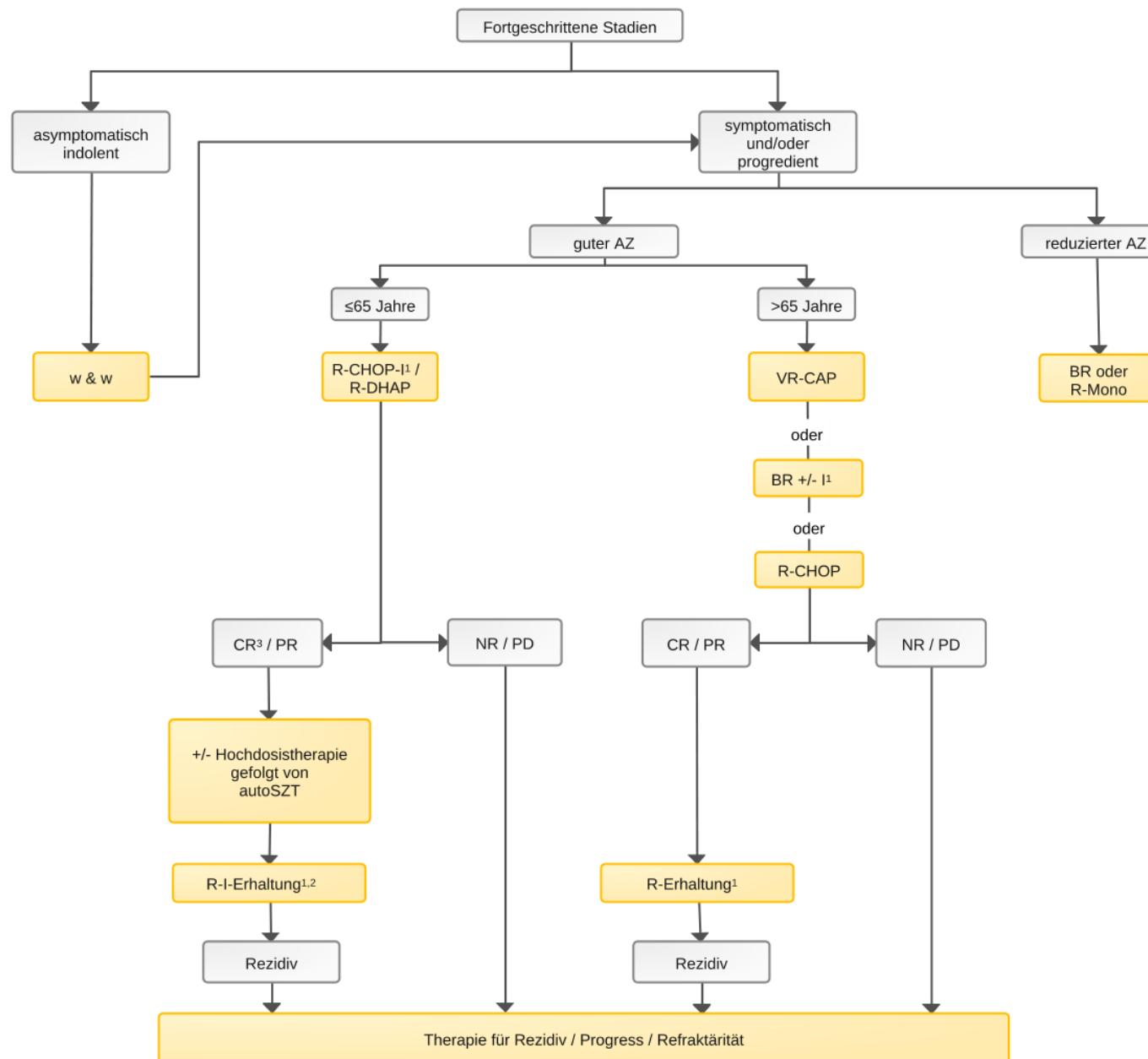
Patients at risk											
AV	291	286	281	277	275	270	233	142	58	10	0
AVO	286	276	265	257	252	250	223	143	64	10	0
FCR/BR	290	247	236	228	223	217	182	98	45	13	0

Patients at risk											
AV	291	286	281	277	275	270	233	142	58	10	0
AVO	286	276	265	257	252	250	223	143	64	10	0
FCR/BR	290	247	236	228	223	217	182	98	45	13	0

COVID-19 deaths: 10 (AV), 25 (AVO), 21 (FCR/BR)

# Therapiealgorithmus für die Erstlinientherapie

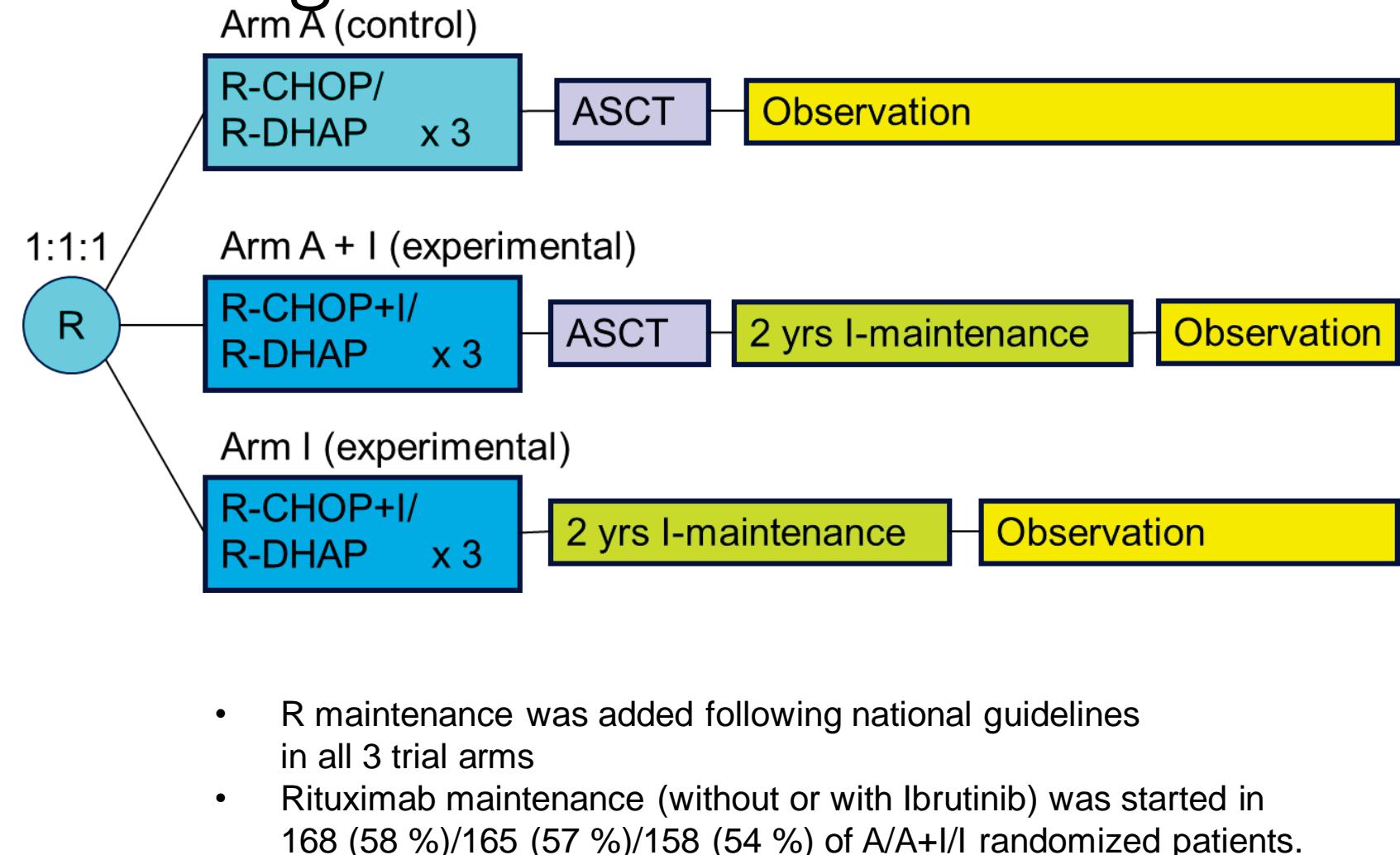
Mantelzell-Lymphom



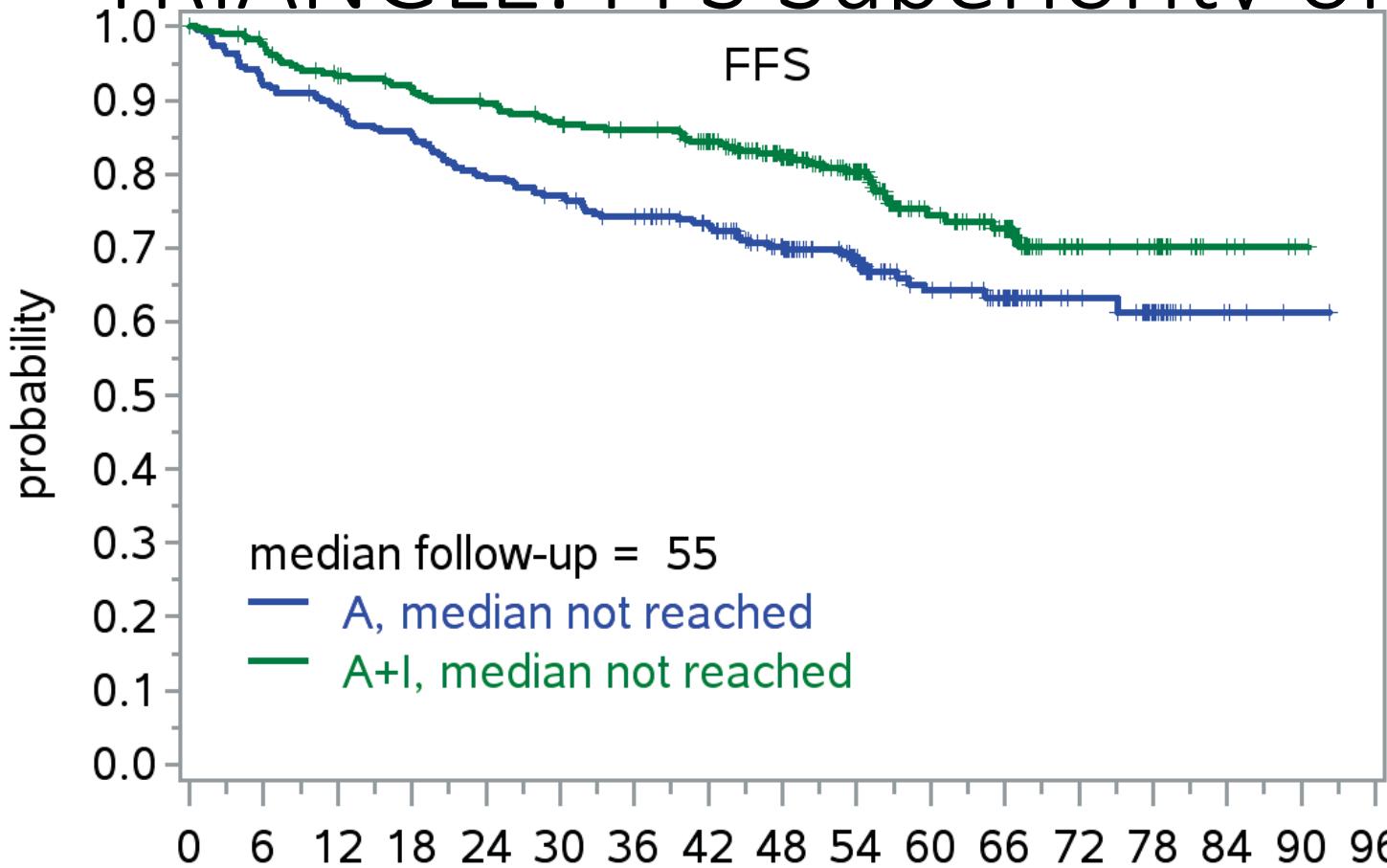
# TRIANGLE: Trial Design

- MCL patients
- previously untreated
- stage II-IV
- younger than 66 years
- suitable for HA and ASCT
- ECOG 0-2

- Primary outcome: FFS
- Secondary outcomes:
  - Response rates
  - PFS, RD
  - OS
  - Safety



# TRIANGLE: FFS Superiority of A+I vs. A



Numbers At Risk

	months from randomisation																
A	288	255	245	235	219	211	200	187	158	121	74	57	32	20	4	1	0
A+I	292	274	259	252	245	236	230	217	180	141	89	70	28	24	6	2	0

- Superiority of A+I vs. A

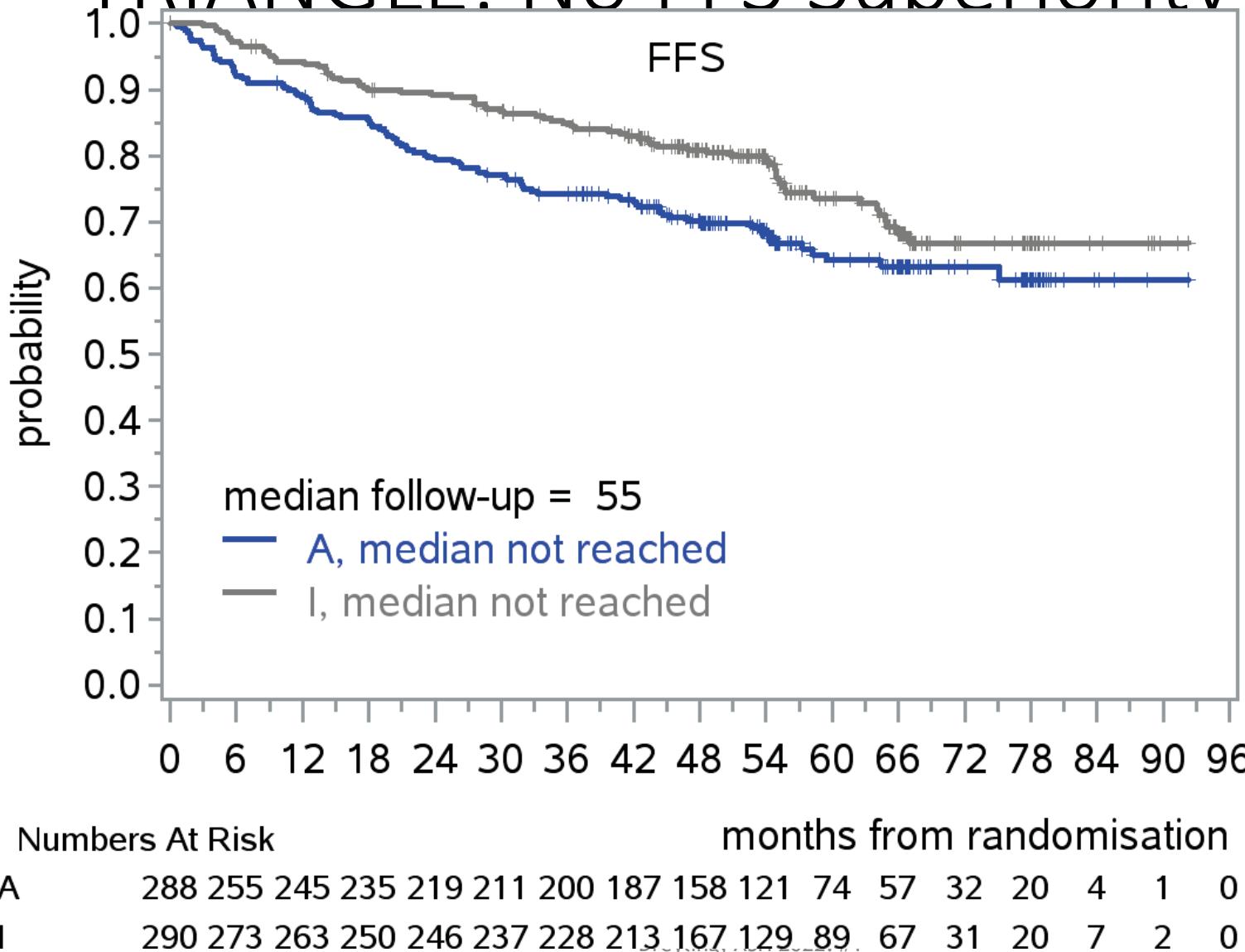
- 4-year FFS A+I: 82%

- 4-year FFS A: 70%

- p-value (overrunning, one-sided):  
p=0.0026

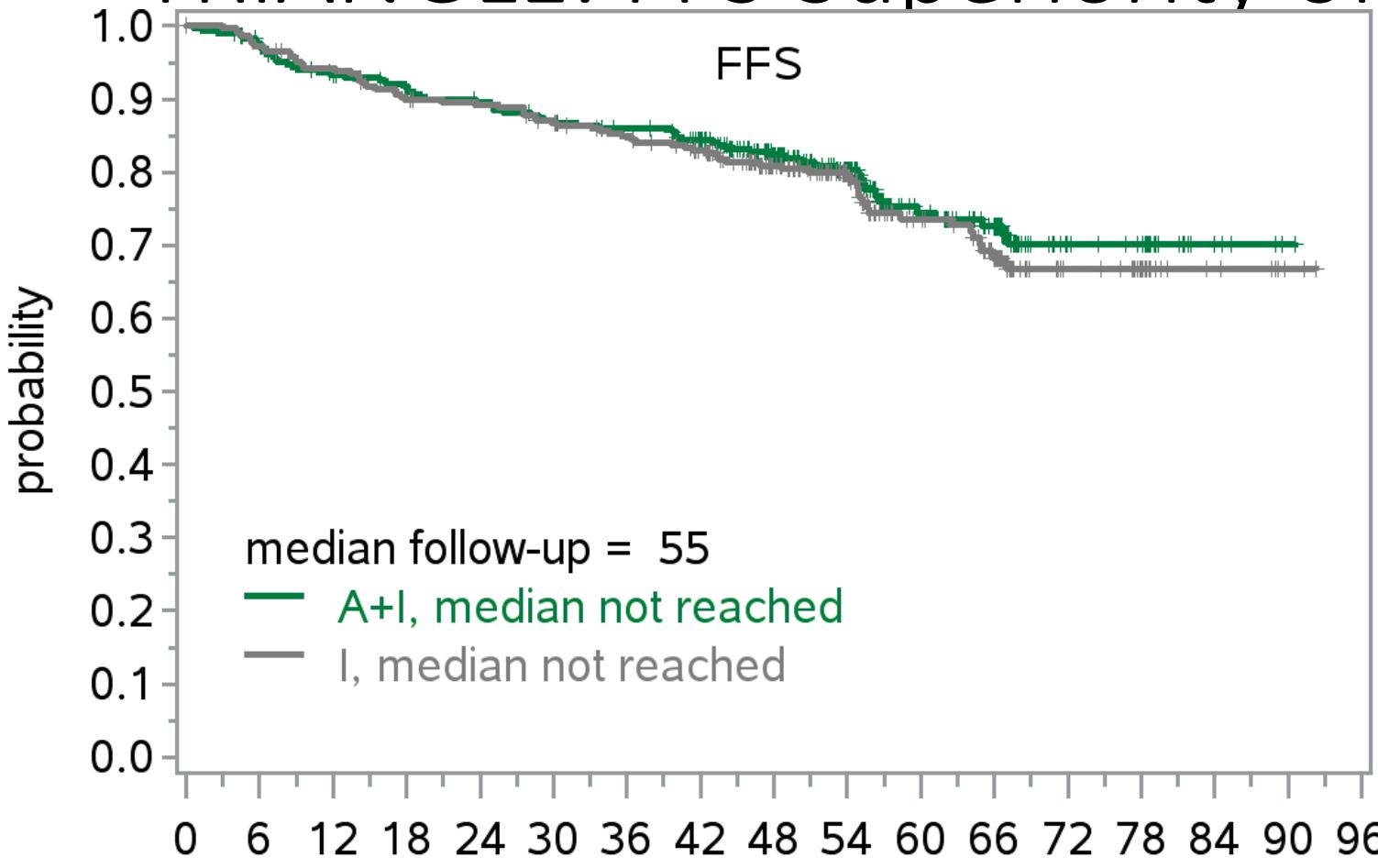
- HR (A+I vs. A): HR=0.64

# TRIANGLE: No FFS Superiority of A vs. I



- Superiority of A vs. I rejected
- 4-year FFS A: 70%  
(MCL Younger: 70%)
- 4-year FFS I: 81%
- p-value (overrunning, one-sided):  
p=0.9890
- HR (A vs. I): HR=1.29
- Superiority of I  
(two-sided, retrospective)  
p=0.0208

# TRIANGLE: FFS Superiority of A+I vs. I ?



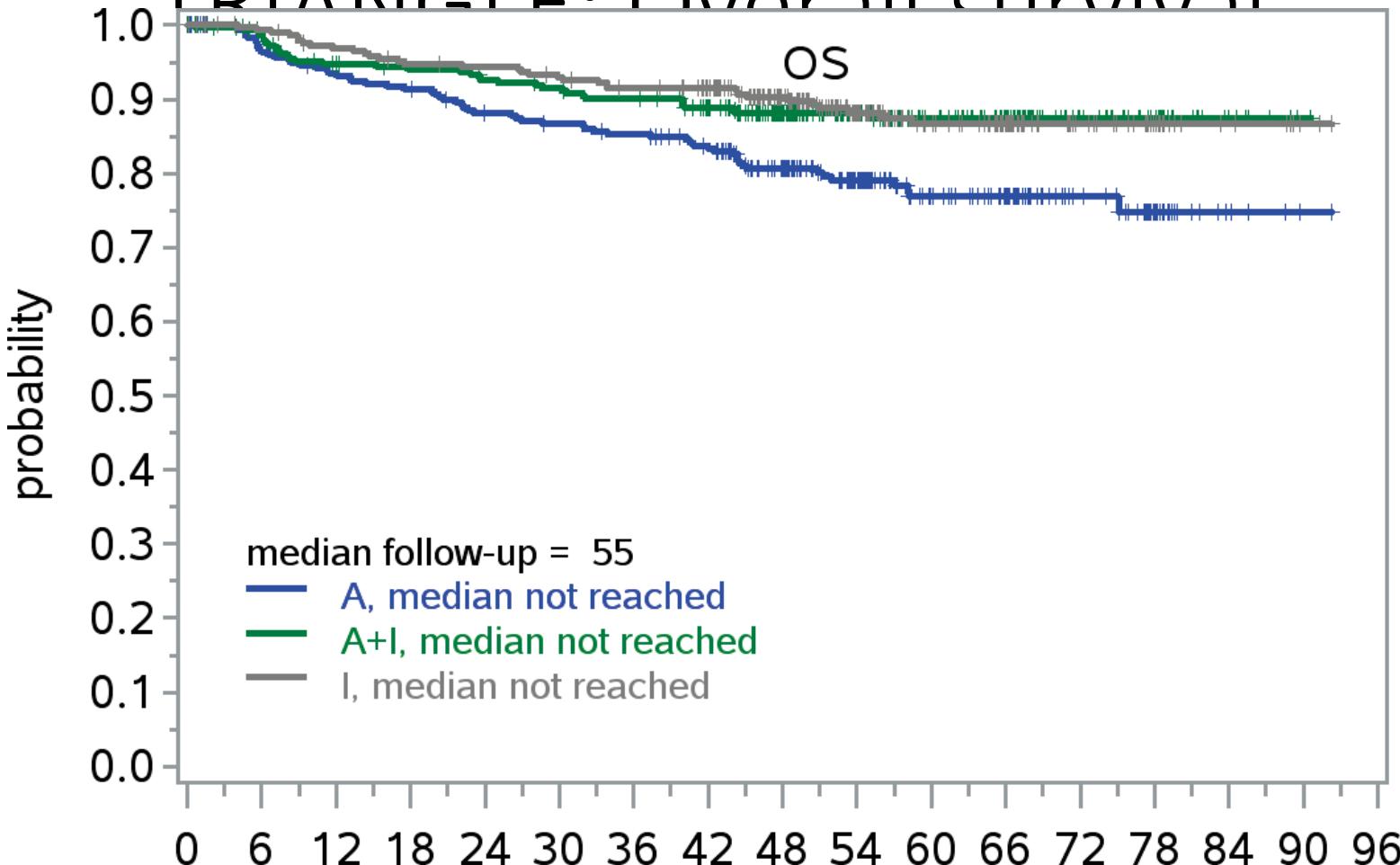
Numbers At Risk

months from randomisation

A+I	292 274 259 252 245 236 230 217 180 141 89 70 28 24 6 2 0
I	290 273 263 250 246 237 228 213 167 129 89 67 31 20 7 2 0

- Superiority of A+I vs. I rejected
- 4-year FFS A+I: 82%
- 4-year FFS I: 81%
- p-value (overrunning, one-sided):  
 $p=0.21$
- HR (A+I vs. I):  $HR=0.83$

# TRIANGLE: Overall survival



## Numbers At Risk

months from randomisation

A	288	270	260	255	243	238	233	222	186	145	92	73	41	23	5	1
A+I	292	281	267	262	257	253	248	235	201	160	107	83	39	26	8	2
I	290	282	273	266	264	259	253	243	194	147	101	78	41	21	7	2

- 4-year OS:

- A: 81%  
(MCL Younger exp.: 80%)
- A+I: 88%
- I: 90%

- two-sided test, ( $\alpha = 5\%$ ):

- A vs. I:  $p=0.0019$ , HR: 0.565
- A vs. A+I:  $p=0.0036$ , HR I: 0.587
- A+I vs. I: ongoing

# Ibrutinib-rituximab versus Immunochemotherapy in previously untreated mantle cell lymphoma

# ENRICH

Dr David J Lewis<sup>1</sup>, Prof Mats Jerkeman<sup>2</sup>, Dr Lexy Sorrell<sup>3</sup>, Prof David Wright<sup>4</sup>, Prof Ingrid Glimelius<sup>5</sup>, Dr Christian B Poulsen<sup>6</sup>, Dr Annika Pasanen<sup>7</sup>, Prof Andrew Rawstron<sup>8</sup>, Dr Karin Wader<sup>9</sup>, Dr Nick Morley<sup>10</sup>, Dr Catherine Burton<sup>8</sup>, Prof Andrew J Davies<sup>11</sup>, Dr Ingemar Lagerlöf<sup>12</sup>, Dr Surita Dalal<sup>8</sup>, Dr Ruth De Tute<sup>8</sup>, Dr Chris McNamara<sup>13</sup>, Mrs Nicola Crosbie<sup>1</sup>, Mrs Helle Erbs Toldbod<sup>14</sup>, Dr Jeanette Sanders<sup>3</sup>, Prof Victoria Allgar<sup>3</sup>, Dr Sree Aroori<sup>3</sup>, Mr Mark Warner<sup>3</sup>, Ms Claire Scully<sup>3</sup>, Mr Brian Wainman<sup>3</sup>, Dr Jacob Haber Christensen<sup>15</sup>, Dr Jon Riise<sup>16</sup>, Dr Kristina Sonnevi<sup>17</sup>, Dr Mark J Bishton<sup>18</sup>, Dr Toby A Eyre<sup>19</sup>, Prof Simon Rule<sup>20</sup> on behalf of the ENRICH investigators

1 University Hospitals Plymouth NHS Trust, Plymouth, UK, PL6 8DH, 2 Lund University Hospital, 3University of Plymouth, 4University of Exeter, 5 Dept of Immunology, Genetics and Pathology, Uppsala University, 6 Zealand University Hospital Roskilde, 7 HUS Helsinki University Hospital, Helsinki, Finland, 8 Leeds Teaching Hospitals NHS Trust, 9 St Olav's Hospital HF, Trondheim, Norway, NO 700, 10 Sheffield Teaching Hospitals NHS Foundation Trust, 11 University of Southampton, 12 Linköping University Hospital, 13 University College London, 14 Aarhus University Hospital, 15 Odense Universitetshospital, 16 Oslo University Hospital, 17 Karolinska University Hospital, 18 University of Nottingham, 19 Oxford University Hospitals NHS Trust, 20 AstraZeneca Mississauga

# Trial design

## Inclusion criteria

- 60 years or older
  - Pathologically confirmed MCL, including either cyclin D1 overexpression or t(11;14)(q13;q32)
  - Previously untreated, measurable (>1.5cm), stage II-IV MCL in need of treatment
  - ECOG 0-2

## **Exclusion criteria**

- Considered fit for stem cell transplantation
  - CNS involvement
  - Known serological positivity for HBC/HCV/HIV

## Rituximab 375mg/m<sup>2</sup>

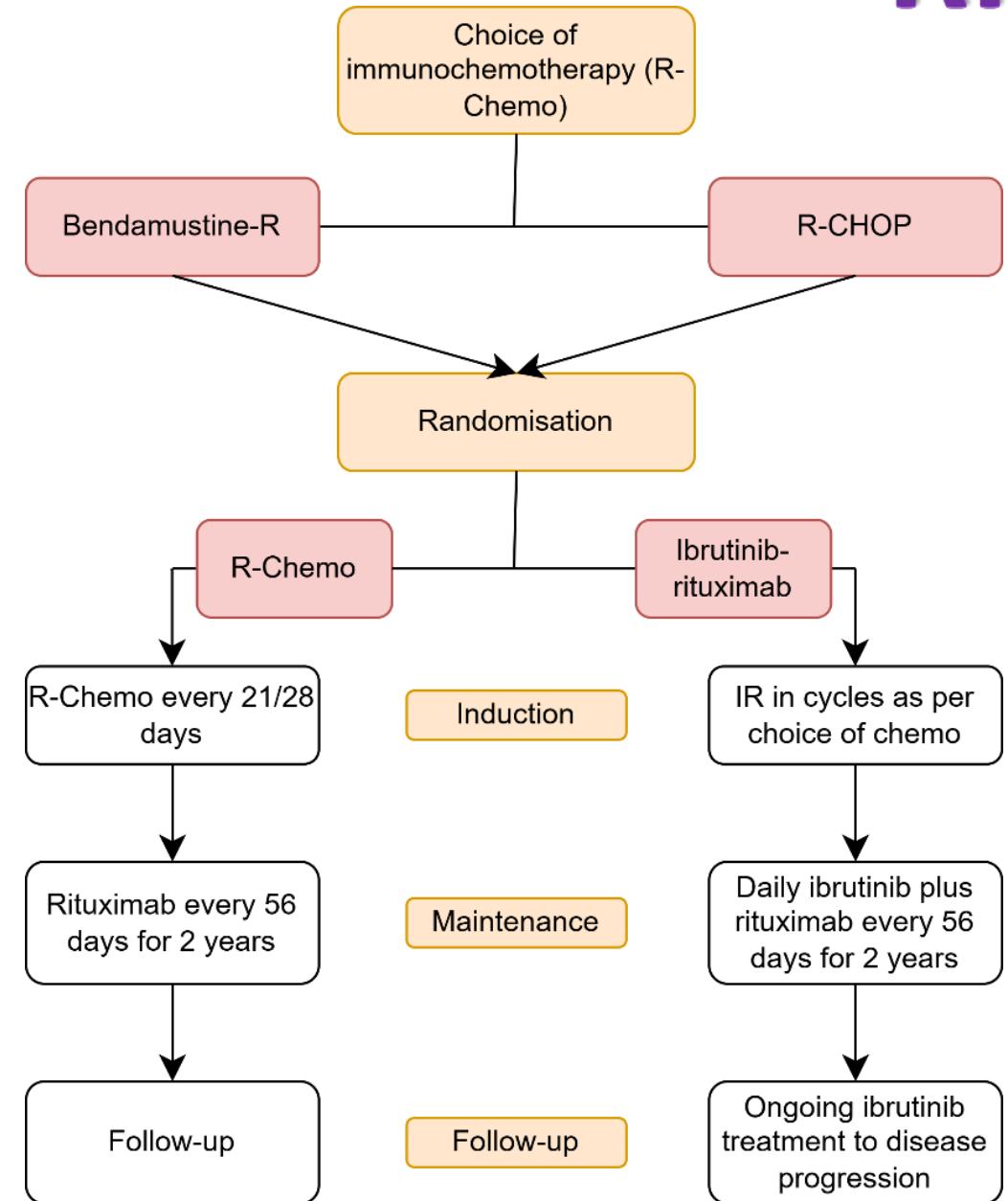
## Ibrutinib – 560 mg od

#### **Bendamustine 90 mg/m<sup>2</sup> D1+D2 of 28 day cycle**

**CHOP - (Cyclophosphamide 750 mg/m<sup>2</sup>, Doxorubicin 50mg/m<sup>2</sup>,**

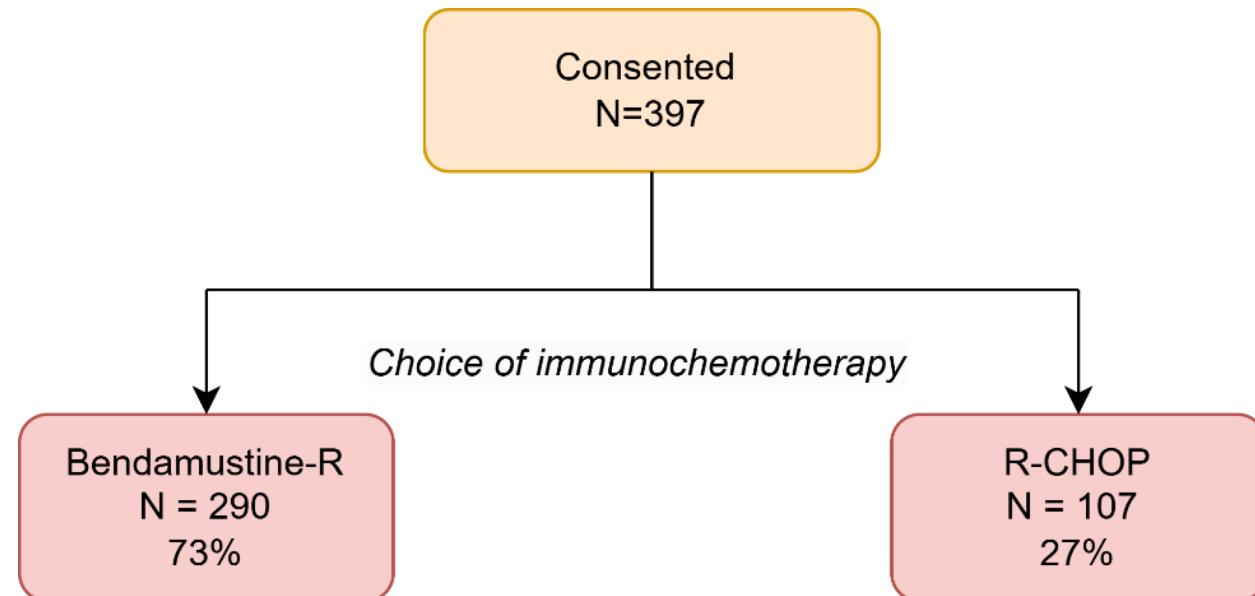
Vincristine 1.4 mg/m<sup>2</sup>. Prednisolone 100mg \*5 days) 21 day cycle

Maintenance rituximab - 1400mg sc every 56 days

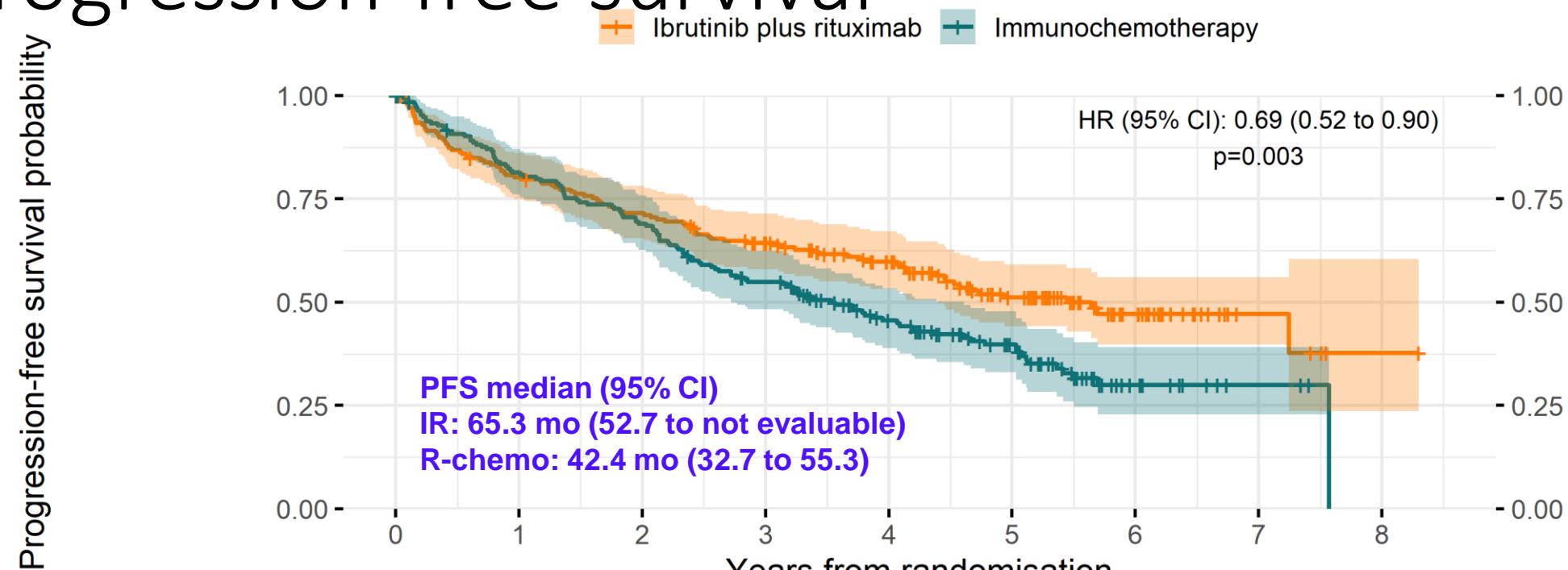


# Patients

- Recruitment open December 2015 - June 2021
- Patients from 66 sites in UK, Sweden, Norway, Finland and Denmark



# Progression-free survival



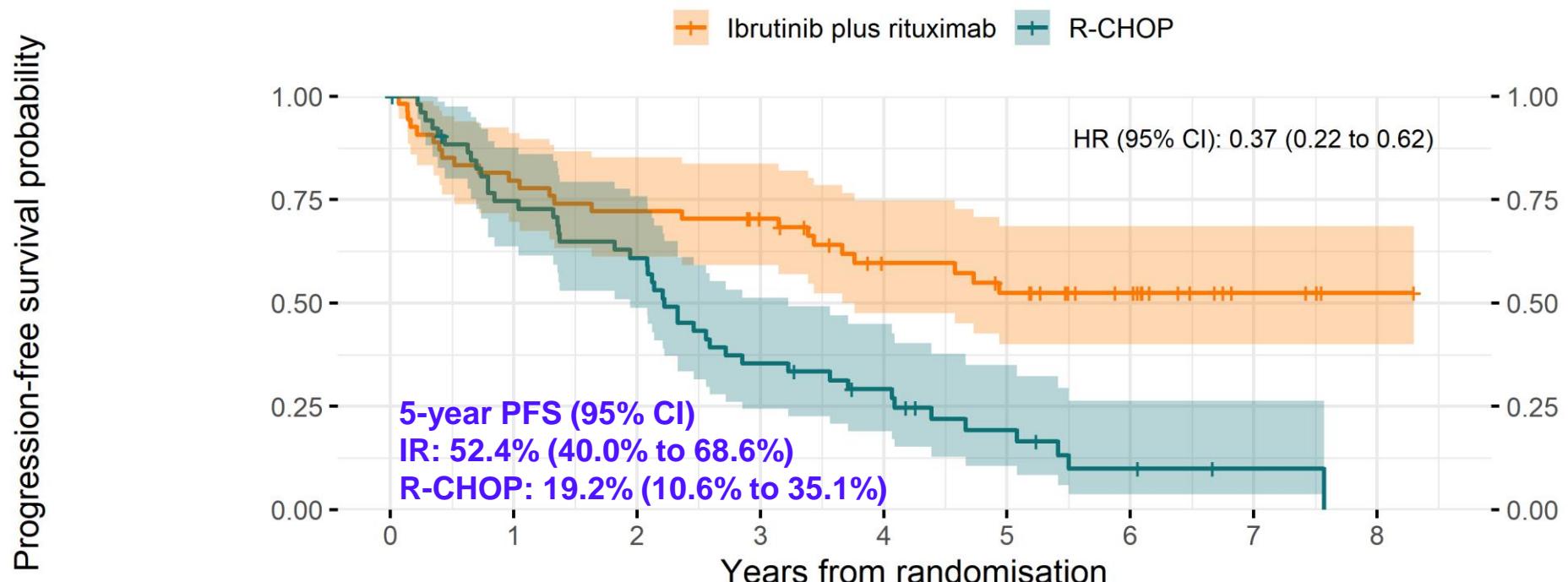
Number at risk (number censored)

	0	1	2	3	4	5	6	7	8
Ibrutinib plus rituximab	199 (0)	158 (2)	140 (3)	120 (9)	94 (27)	58 (51)	27 (79)	5 (101)	1 (104)

	0	1	2	3	4	5	6	7	8
Immunochemotherapy	198 (0)	157 (5)	133 (5)	103 (8)	70 (25)	44 (43)	12 (66)	3 (75)	0 (77)

Median Follow up 47.9 months

## PFS for D GLOW choice

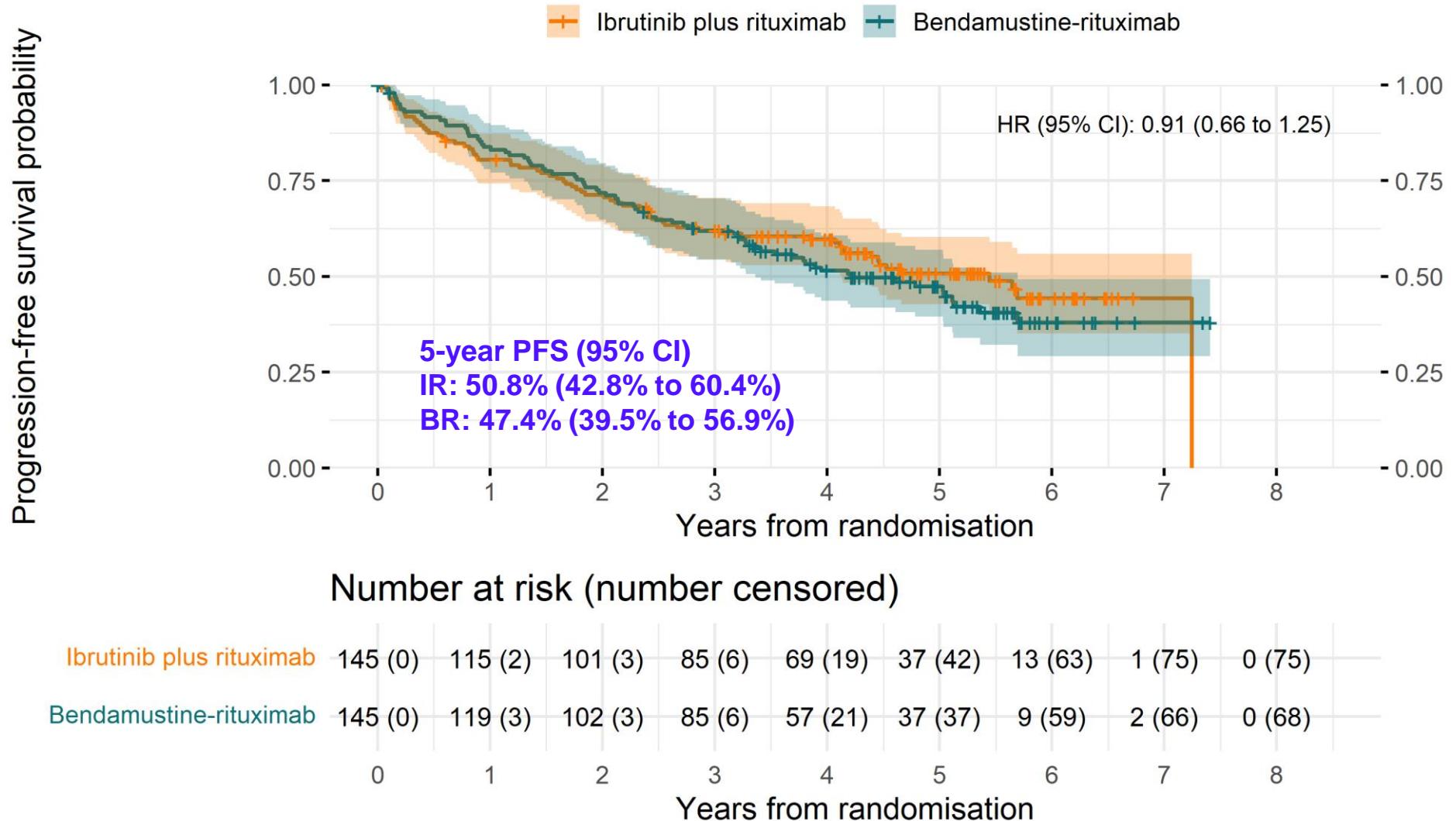


Number at risk (number censored)

	0	1	2	3	4	5	6	7	8
Ibrutinib plus rituximab	54 (0)	43 (0)	39 (0)	35 (3)	25 (8)	21 (9)	14 (16)	4 (26)	1 (29)
R-CHOP	53 (0)	38 (2)	31 (2)	18 (2)	13 (4)	7 (6)	3 (7)	1 (9)	0 (9)

Years from randomisation

## DEC for DD choice



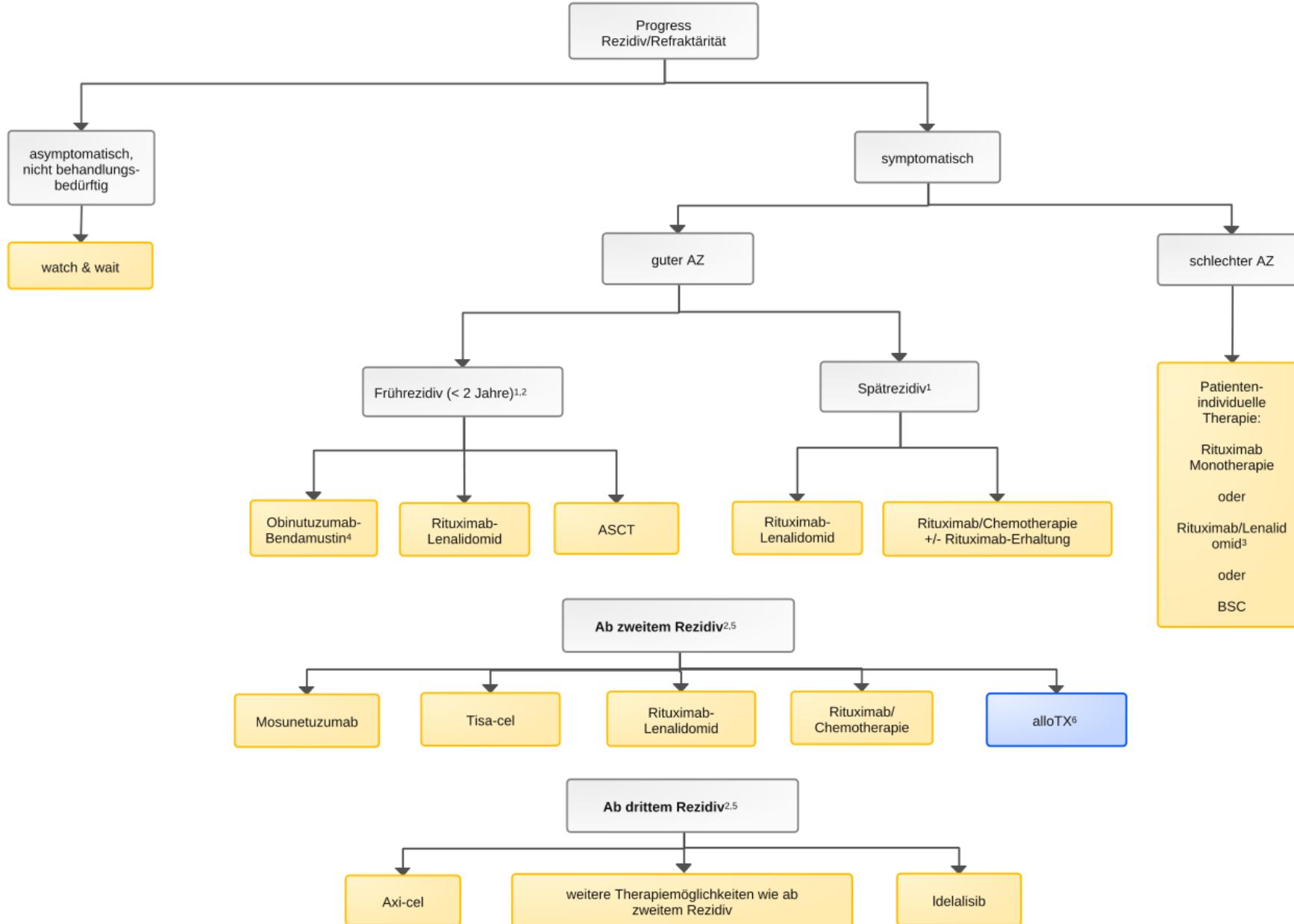
# Grade 3-4 Adverse events

<i>N participants (% of safety population)</i>	Ibrutinib plus rituximab, N=198	Bendamustine-rituximab, N=143	R-CHOP, N=52
<b>Total</b>	125 (63.1%)	97 (67.8%)	36 (69.2%)
<b>All Cardiac AEs</b>	44 (22.2%)	7 (4.9%)	7 (13.5%)
All bleeding AEs	10 (5.1%)	3 (2.1%)	3 (5.8%)
Atrial Fibrillation	12 (6.1%)	1 (0.7%)	0
Neutropenia	18 (9.1%)	27 (18.9%)	11 (21.2%)
Neutropenic sepsis	6 (3.0%)	2 (1.4%)	8 (15.4%)
Corona virus infection	10 (5.1%)	10 (7.0%)	0

*Grade 3 and 4 adverse events during induction treatment and maintenance*

*Safety population - patients who had at least one cycle of treatment*

# **Rezidivtherapie des Follikulären Lymphoms**

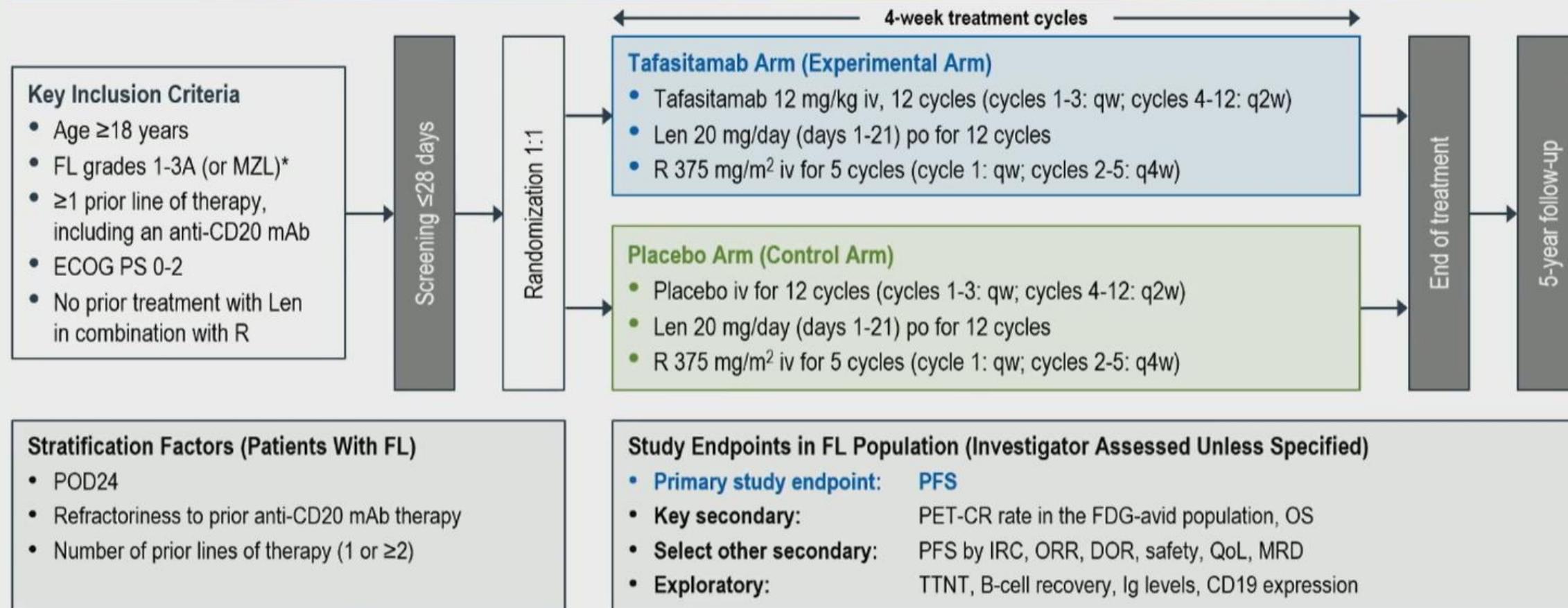


# Tafasitamab Plus Lenalidomide and Rituximab for Relapsed or Refractory Follicular Lymphoma: Results From a Phase 3 Study (inMIND)

Laurie H. Sehn,<sup>1</sup> Stefano Luminari,<sup>2,3</sup> Christian W. Scholz,<sup>4</sup> Kai Hübel,<sup>5</sup> Antonio Salar,<sup>6</sup> Shankara Paneesha,<sup>7,8</sup> Björn E. Wahlin,<sup>9</sup> Panayiotis Panayiotidis,<sup>10</sup> Hui Peng Lee,<sup>11</sup> Ana Jimenez Ubieto,<sup>12</sup> Juan-Manuel Sancho,<sup>13</sup> Tae Min Kim,<sup>14</sup> Eva Domingo Domenech,<sup>15</sup> Takahiro Kumode,<sup>16</sup> Christina Poh,<sup>17</sup> Catherine Thieblemont,<sup>18</sup> Dries Deeren,<sup>19</sup> Edwin de Wit,<sup>20</sup> Michael Arbushites,<sup>21</sup> Marie-Laure Casadebaig<sup>20</sup> and Marek Trneny<sup>22</sup>

<sup>1</sup>BC Cancer Centre for Lymphoid Cancer and The University of British Columbia, Vancouver, BC, Canada; <sup>2</sup>Azienda USL-IRCCS di Reggio Emilia, Reggio Emilia, Italy; <sup>3</sup>Surgical, Medical and Dental Department of Morphological Sciences related to Transplant, Oncology and Regenerative Medicine, University of Modena and Reggio Emilia, Reggio Emilia, Italy; <sup>4</sup>Vivantes Klinikum Am Urban, Berlin, Germany; <sup>5</sup>University of Cologne and Faculty of Medicine and University Hospital of Cologne, Cologne, Germany; <sup>6</sup>Hospital del Mar-IMIM, Barcelona, Spain; <sup>7</sup>University Hospitals Birmingham NHS Foundation Trust, Birmingham, UK; <sup>8</sup>University of Birmingham, Birmingham, UK; <sup>9</sup>Karolinska University Hospital, Stockholm, Sweden; <sup>10</sup>National and Kapodistrian University of Athens Medical School, General Hospital LAIKO, Athens, Greece; <sup>11</sup>Flinders Medical Centre, Adelaide, South Australia, Australia; <sup>12</sup>Servicio de Hematología, Hospital 12 de Octubre, Madrid, Spain; <sup>13</sup>ICO-IJC-Hospital Germans Trias i Pujol, Badalona, Universitat Autònoma de Barcelona, Barcelona, Spain; <sup>14</sup>Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea; <sup>15</sup>Institut Català d'Oncologia, Hospital Duran i Reynals, IDIBELL, Barcelona, Spain; <sup>16</sup>Kindai University, Osaka, Japan; <sup>17</sup>Fred Hutchinson Cancer Center/University of Washington, Seattle, WA, USA; <sup>18</sup>Saint-Paris Cité Université; Assistance Publique-Hôpitaux de Paris, Saint-Hospital, Paris, France; <sup>19</sup>AZ Delta General Hospital, Roeselare, Belgium; <sup>20</sup>Incyte International Biosciences Sàrl, Morges, Switzerland; <sup>21</sup>Incyte Corporation, Wilmington, DE, USA; <sup>22</sup>First Faculty of Medicine, Charles University, Prague, Czech Republic

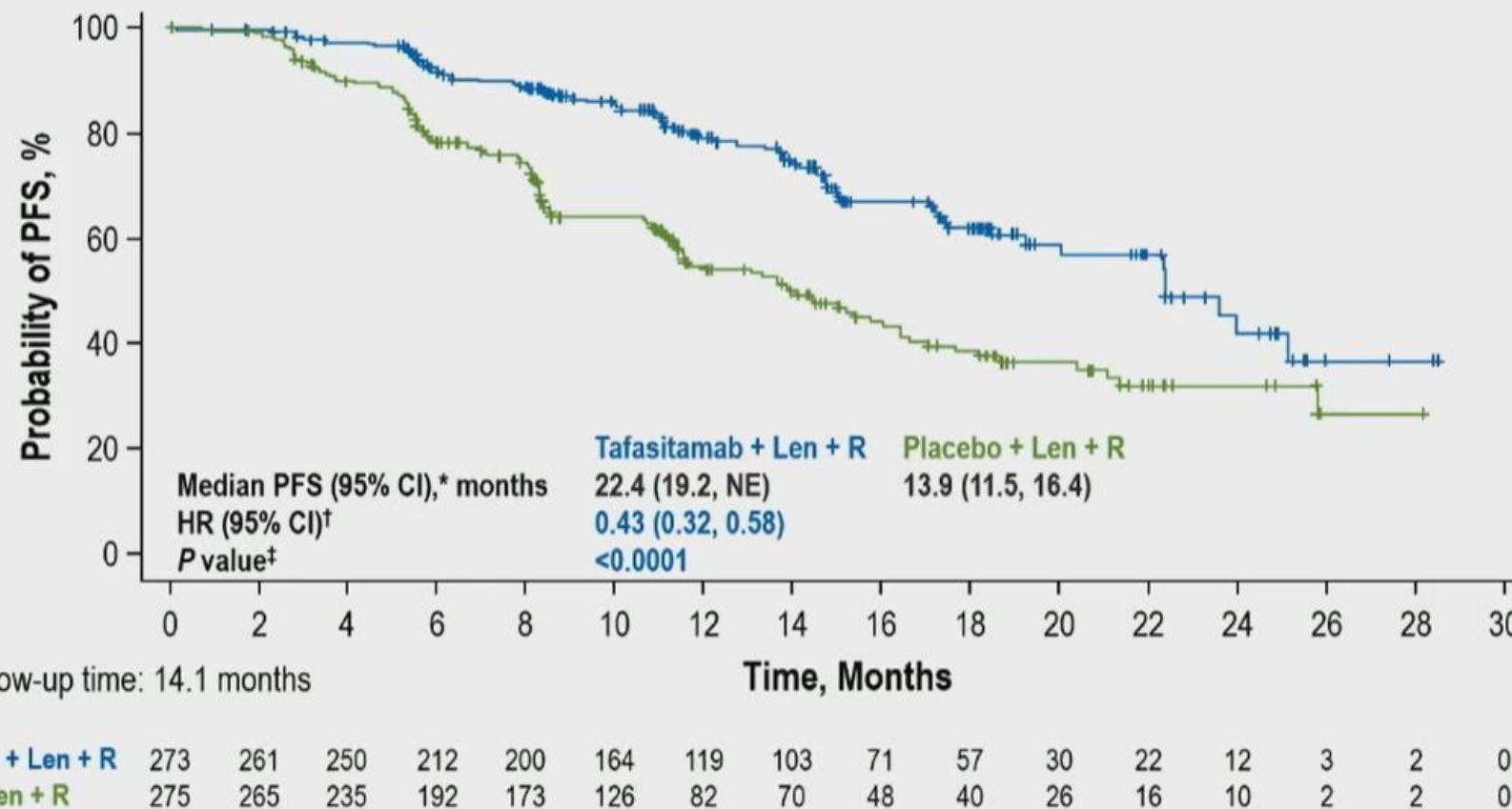
# inMIND: Phase 3, Double-Blind, Placebo-Controlled, International, Multicenter Randomized Study



- Powered to assess PFS in the FL population, triggered when 174 investigator-assessed events occurred
- OS analysis planned after 5 years of follow-up

\*Limited number of patients with MZL were enrolled but the study was not powered for this population; data for patients with MZL will be presented separately. DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; FDG, fluorodeoxyglucose; FL, follicular lymphoma; Ig, immunoglobulin; IRC, independent review committee; iv, intravenous; Len, lenalidomide; mAb, monoclonal antibody; MRD, minimal residual disease; MZL, marginal zone lymphoma; ORR, overall response rate; OS, overall survival; PET-CR, positron emission tomography-complete response; PFS, progression-free survival; po, orally; POD24, disease progression within 24 months of initial diagnosis; QoL, quality of life; qw, weekly; q2w, every 2 weeks; q4w, every 4 weeks; R, rituximab; TTNT, time to next treatment.

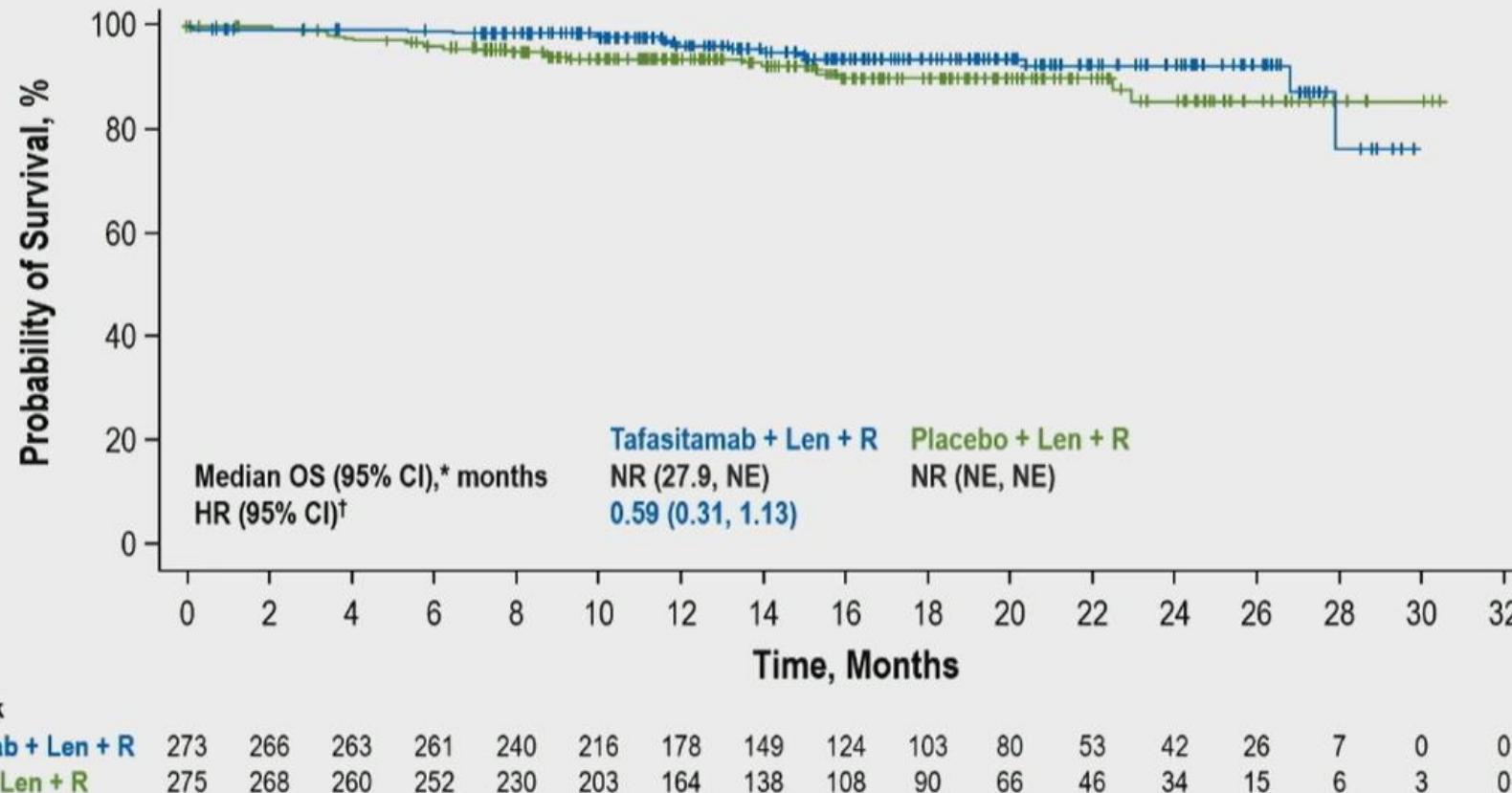
# Primary Endpoint: PFS by Investigator Assessment



Significant improvement in PFS was observed with tafasitamab

ITT population. \*Estimated using Kaplan-Meier method. <sup>†</sup>Estimated using a stratified Cox proportional hazard model. <sup>‡</sup>Stratified log-rank test with a 2-sided significance level of 5%. CI, confidence interval; HR, hazard ratio; ITT, intent-to-treat; Len, lenalidomide; NE, not evaluable; PFS, progression-free survival; R, rituximab.

# Overall Survival



- OS was tested only for futility at the time of the primary analysis
- After a median follow-up of 15.3 months, the futility threshold was not crossed and a positive trend was observed

ITT population. Analysis by investigator assessment. \*Estimated using Kaplan-Meier method. †Estimated using a stratified Cox proportional hazard model. CI, confidence interval; HR, hazard ratio; ITT, intent-to-treat; Len, lenalidomide; NE, not evaluable; NR, not reached; OS, overall survival; R, rituximab.

# Grade 3 or 4 TEAEs and Dose Modifications

## Most Common Grade 3 or 4 TEAEs ( $\geq 5\%$ in Any Group)

Preferred Term, n (%)	Tafasitamab + Len + R (n=274)*	Placebo + Len + R (n=272)†	Total (n=546)
Neutropenia	109 (39.8)	102 (37.5)	211 (38.6)
Pneumonia	23 (8.4)	14 (5.1)	37 (6.8)
Thrombocytopenia	17 (6.2)	20 (7.4)	37 (6.8)
Neutrophil count decreased	16 (5.8)	18 (6.6)	34 (6.2)
Anemia	12 (4.4)	16 (5.9)	28 (5.1)
COVID-19	16 (5.8)	6 (2.2)	22 (4.0)
COVID-19 pneumonia	13 (4.7)	3 (1.1)	16 (2.9)

- Tafasitamab and placebo dose interruptions or discontinuations due to TEAEs were similar between treatment arms, n (%):
  - Dose delay or interruption due to TEAEs: 203 (74%) vs 190 (70%)
  - Discontinued study treatment due to TEAEs: 30 (11%) vs 18 (7%)
- Len discontinuations due to TEAEs were similar between tafasitamab and placebo arms, n (%):
  - 39 (14%) vs 31 (11%)
- Len dose reductions were similar between tafasitamab and placebo arms
  - Median relative dose intensity: 86% vs 87%

Safety population. \*One patient randomized to the placebo + len + R group is included in the tafasitamab + len + R safety population because the patient erroneously received tafasitamab. †Three patients randomized to the placebo + len + R group are not included in the safety population because they erroneously received tafasitamab (n=1), or did not receive any study treatment due to confirmation of R hypersensitivity (n=1), or the patient withdrew from the study (n=1). COVID-19, coronavirus disease 2019; Len, lenalidomide; R, rituximab; TEAE, treatment-emergent adverse event.

# **Blinatumomab added to chemotherapy improves disease-free survival in newly diagnosed NCI standard risk pediatric B-acute lymphoblastic leukemia: Results from Children's Oncology Group Study AALL1731**

**Study Chairs:**  
Rachel Rau  
Sumit Gupta

**Sr. Statistician:**  
John Kairalla

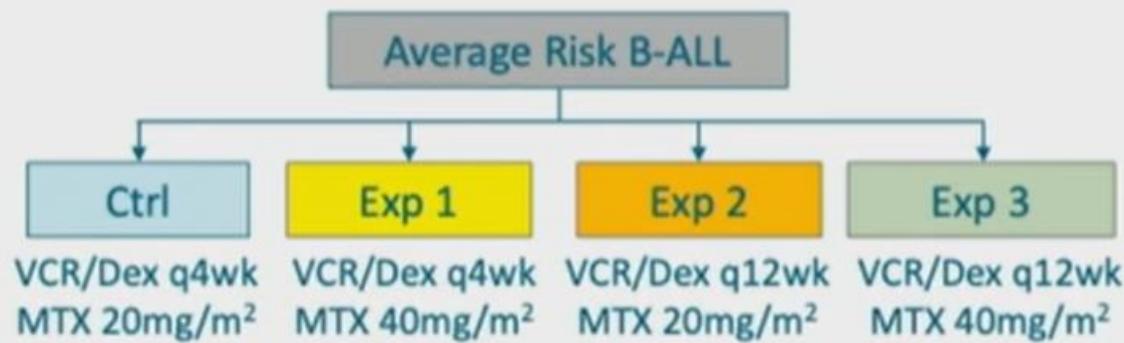
**Vice Chair:**  
Karen Rabin

**COG ALL Leads:**  
Mignon Loh  
Elizabeth Raetz

# Further progress in pediatric B-ALL has stalled

## AALL0932

(2010-2018)



## AALL1131

(2012-2017)



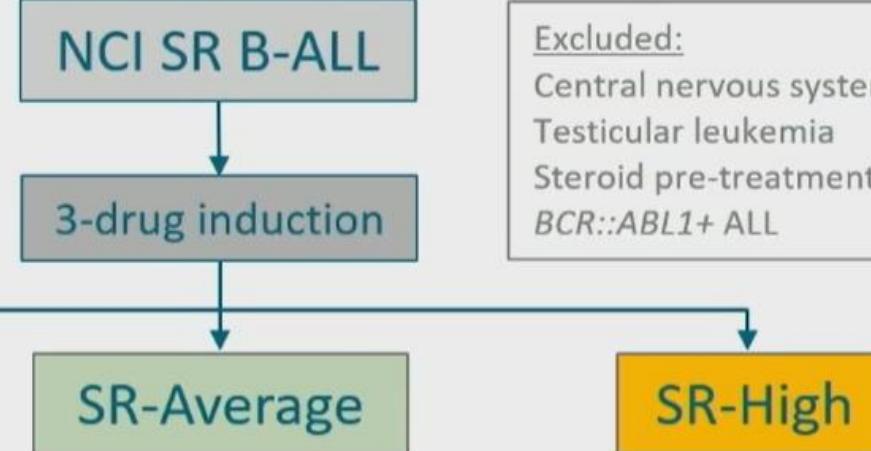
# AALL1731 risk stratification

## NCI Standard Risk (SR) B-ALL

At diagnosis:

Age 1-<10 years

WBC <50,000/ $\mu$ L



**SR-Favorable**

Favorable genetics  
and  
Day 8 blood MRD <1%  
and  
End of induction marrow  
MRD <0.01%

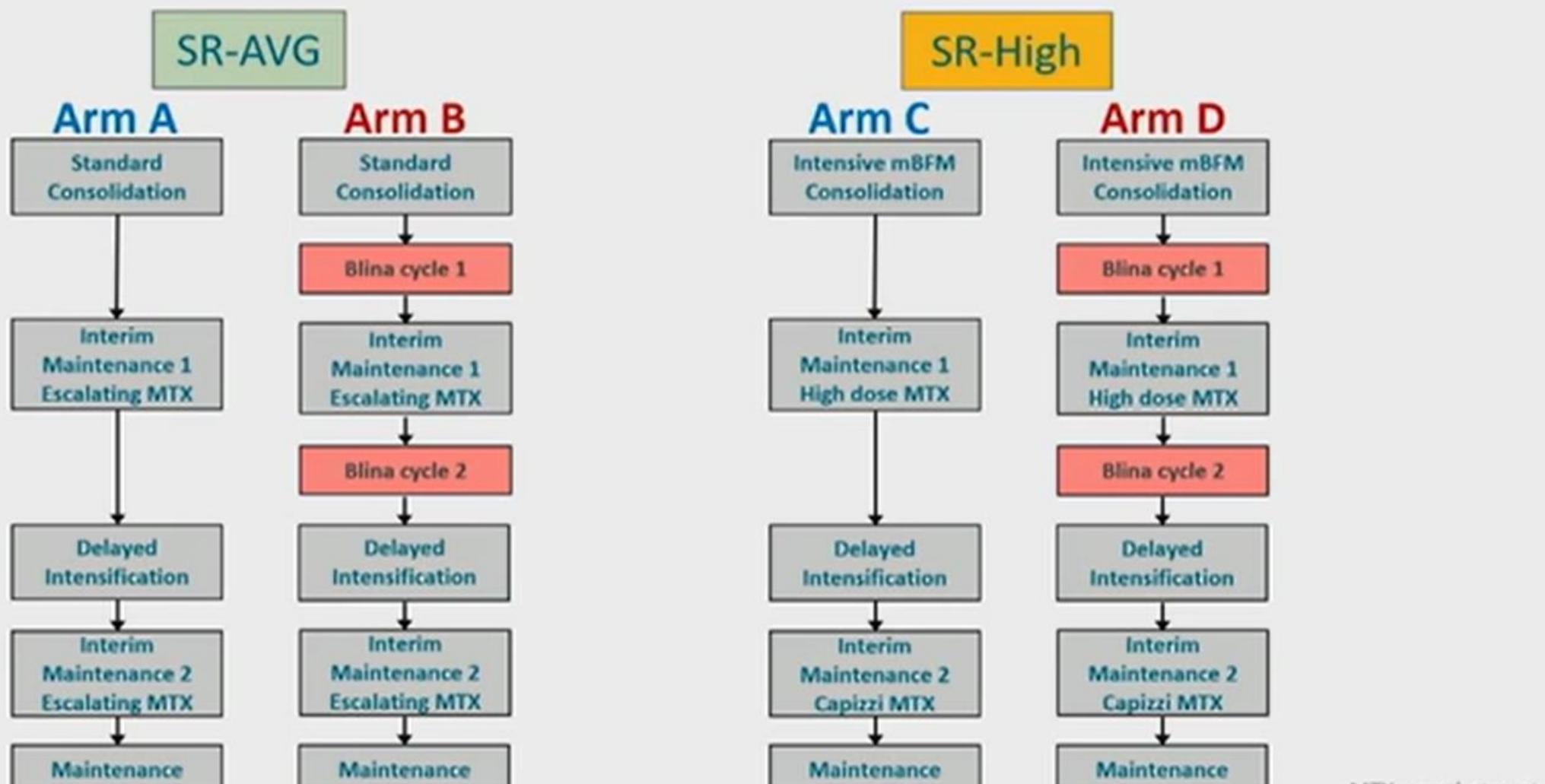
Excluded:  
Central nervous system leukemia (CNS3)  
Testicular leukemia  
Steroid pre-treatment  
*BCR::ABL1*+ ALL

**SR-High**

Unfavorable genetics  
or  
Neutral genetics and CNS2  
or  
End of induction marrow  
MRD  $\geq 0.01\% \ (\geq 0.1\% DT)$

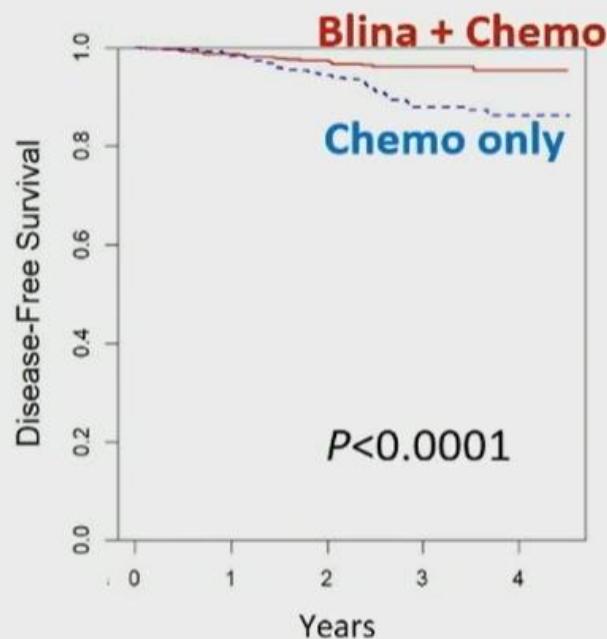
MRD = minimal residual disease

# Randomization



# Blinatumomab significantly improves DFS

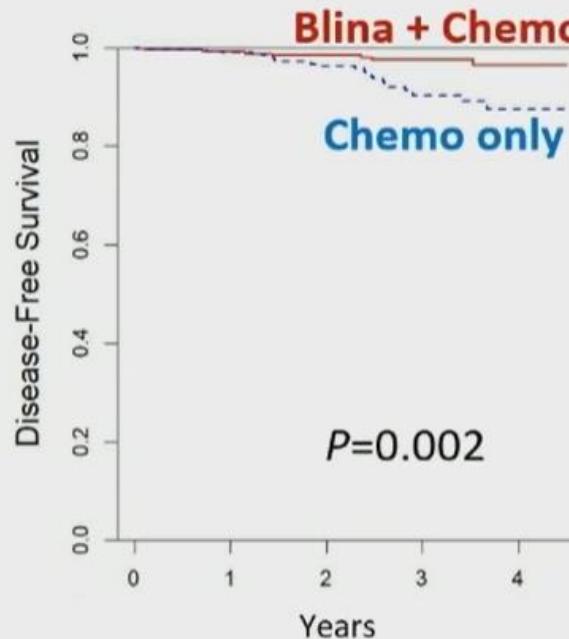
Overall cohort



3-yr DFS 87.9 vs 96%

Hazard ratio (HR) 0.39

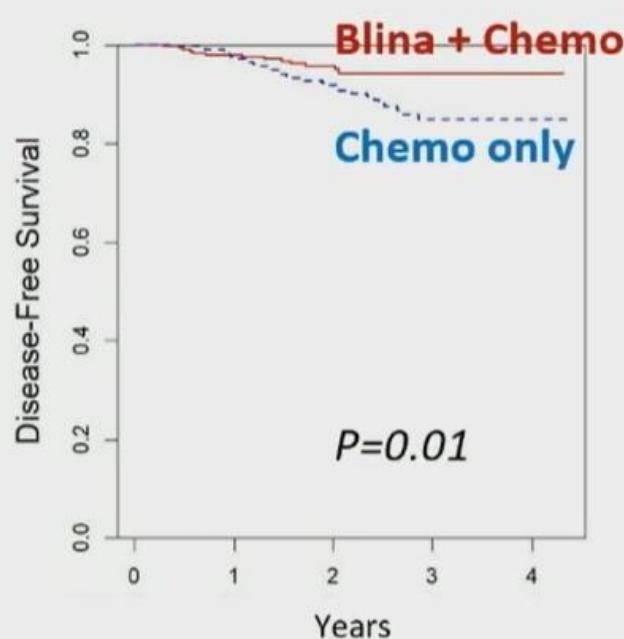
SR-Avg



3-yr DFS 90.2 vs 97.5%

HR 0.33

SR-High

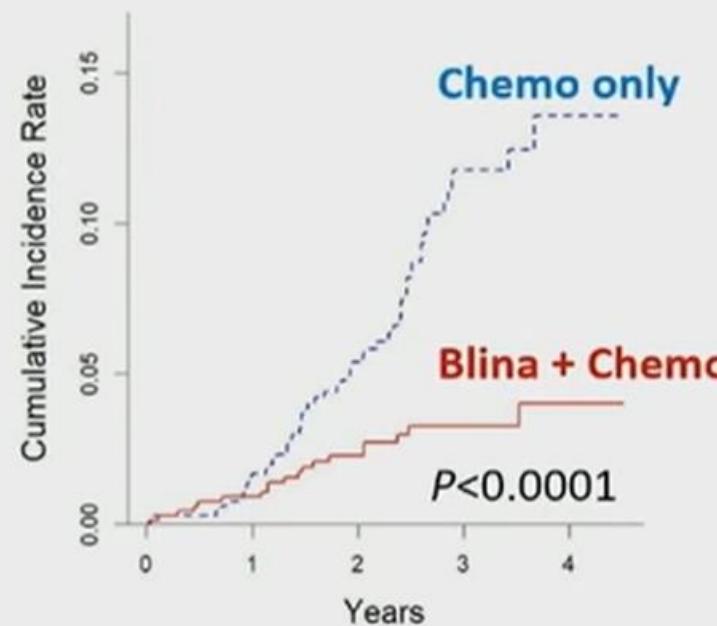


3-yr DFS 84.8 vs 94.1%

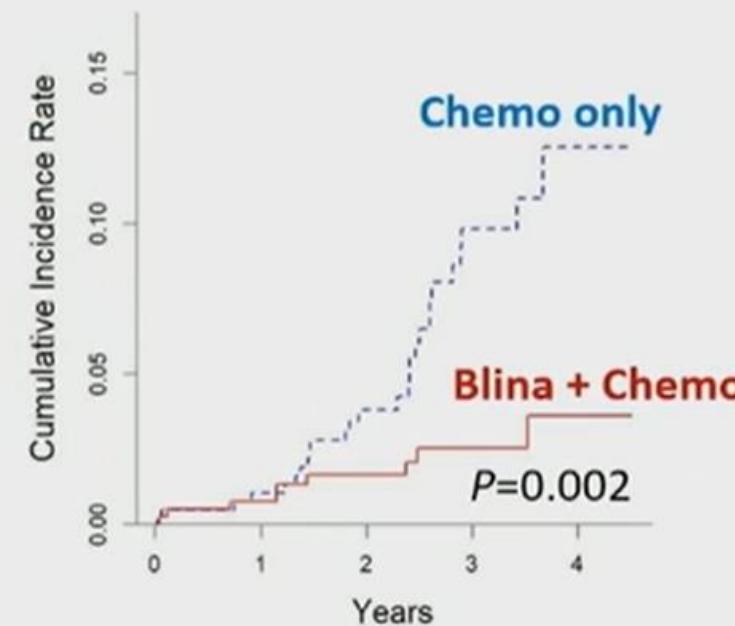
HR 0.45

# Blinatumomab reduces relapses

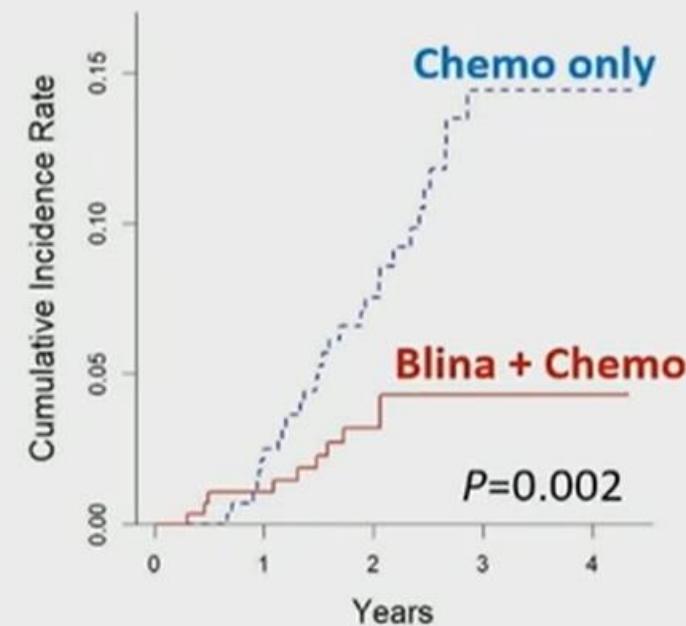
Overall cohort



SR-Avg



SR-High

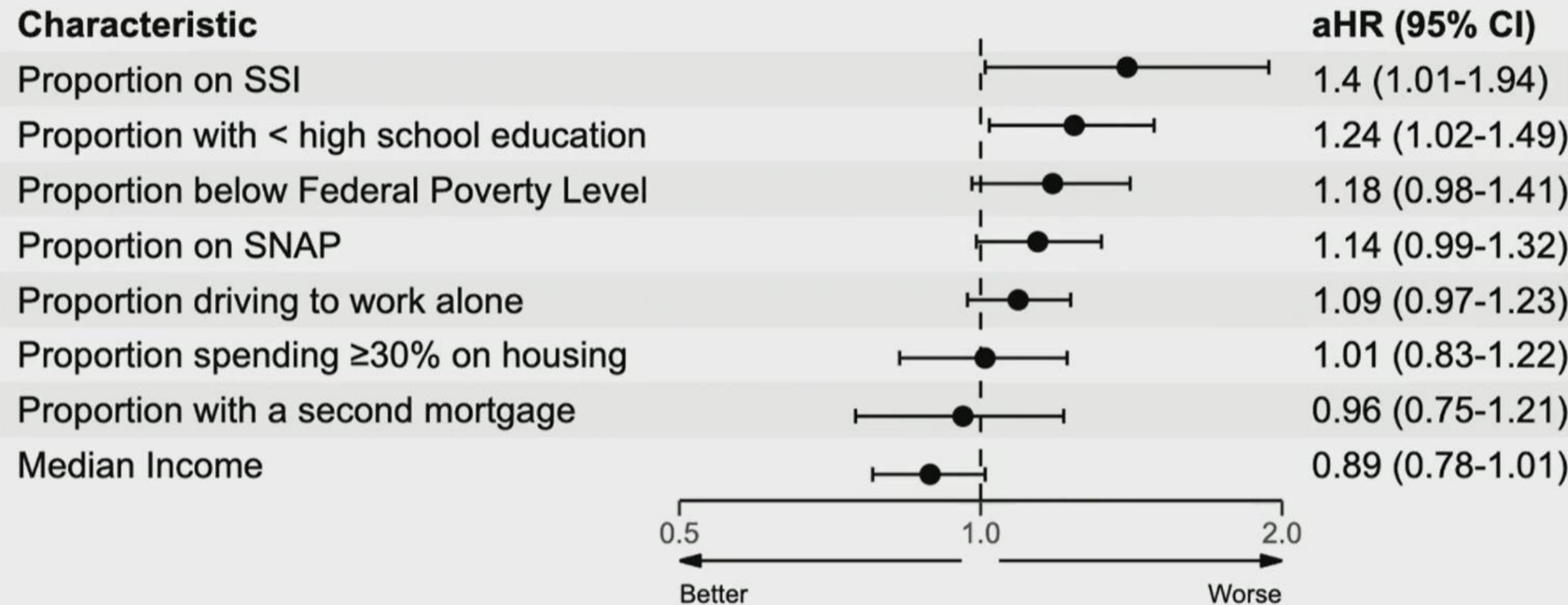




# Impact of Socioeconomic Factors on Access to and Outcomes of Allogeneic Hematopoietic Cell Transplantation for Acute Myeloid Leukemia: A Multi-Center Observational Study

Natalie Wuliji, DO; Ted Gooley, PhD; Salene Jones, PhD; Aaron T. Gerds, MD, MS; Bruno C. Medeiros, MD; Paul Shami, MD; John Galvin, MD; Kehinde Adekola, MD; Selina Luger, MD; Maria R. Baer, MD; David Rizzieri, MD; Tanya Wildes, MD; Eunice S. Wang, MD; Mikkael A. Sekeres, MD, MS; Sudipto Mukherjee, MD, PhD; Julie Smith, MD; Mitchell Garrison, MD; Kiarash Kojouri, MD; Jacob Appelbaum, MD, PhD; Mary-Elizabeth Percival, MD ; Brenda M. Sandmaier; MD; Frederick R. Appelbaum, MD; Mohamed L. Sorror, MD, MSc

# Mortality without allo-HCT



Adjusted for age and HCT-CI, KPS, PHQ-9, ADL scale, 4MWT and quality of life per FACT, diagnosis and ELN risk



# ASH Kongress 2024

nicht in der Zusammenfassung ...

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- Akute Myeloische Leukämie: Bedeutung von MRD
- CAR-T Zellen: Einfluss von ketogener Diät und b-Hydroxybutyrat
- Erythrozytose (Polyzythämie): Einfluss von Hepatic-like Erythropoietin
- Hämatopoetische Stammzellen: Einfluss von Plättchenfaktor 4 auf Altern
- Hämophilie A: Lentiviraler Gentransfer in CD34+ Stammzellen
- Sichelzellkrankheit: Reduktion von Vaskulopathie post allo TX
- Sichelzellkrankheit: Gentherapie
- ...

10.01.2025	14:00 - 15:00	Weichgewebstumoren	Prof. Dr. Sebastian Bauer
24.01.2025	14:00 - 15:00	Gentherapie bei hereditären hämatologischen Erkrankungen	Prof. Dr. Roland Meisel
07.02.2025	14:00 - 15:00	Paroxysmale Nächtliche Hämoglobinurie (PNH)	Prof. Dr. Jörg Schubert
21.02.2025	14:00 - 15:00	Ösophaguskarzinom	Prof. Dr. Sylvie Lorenzen
07.03.2025	14:00 - 15:00	Keimzelltumoren	Prof. Dr. Anja Lorch
21.03.2025	14:00 - 15:00	akute GvHD	Prof. Dr. Robert Zeiser
04.04.2025	14:00 - 15:00	Hepatozelluläres Karzinom	Prof. Dr. Sebastian Stintzing
25.04.2025	14:00 - 15:00	Urothelkarzinom	Prof. Dr. Maike de Wit
09.05.2025	14:00 - 15:00	Morbus Waldenström / ...	Prof. Dr. Christian Buske, NN
23.05.2025	14:00 - 15:00	Febrile Neutropenie	PD Dr. Dr. Michael Sandherr
06.06.2025	14:00 - 15:00	Best of ASCO 2025	Prof. Dr. Bernhard Wörmann
20.06.2025	14:00 - 15:00	ZNS Infektionen	Prof. Dr. Martin Schmidt-Hieber
27.06.2025	14:00 - 15:00	Best of EHA, Best of Lugano	Prof. Dr. Bernhard Wörmann
11.07.2025	14:00 - 15:00	Speichelrüsenkarzinome; Kopf-Hals-Plattenepithelkarzinome	Prof. Dr. Orlando Guntinas-Lichius, PD Dr. Konrad Klinghammer

2020



**2024**



**Praxen  
Ambulanzen**

**Intersektorale  
Versorgung**

**KHVVG**

**Arzneimittel-  
Versorgung**