

Höhepunkte des Amerikanischen Krebskongresses

Akute Leukämien, MDS

Juliane Walz

15. Januar 2020



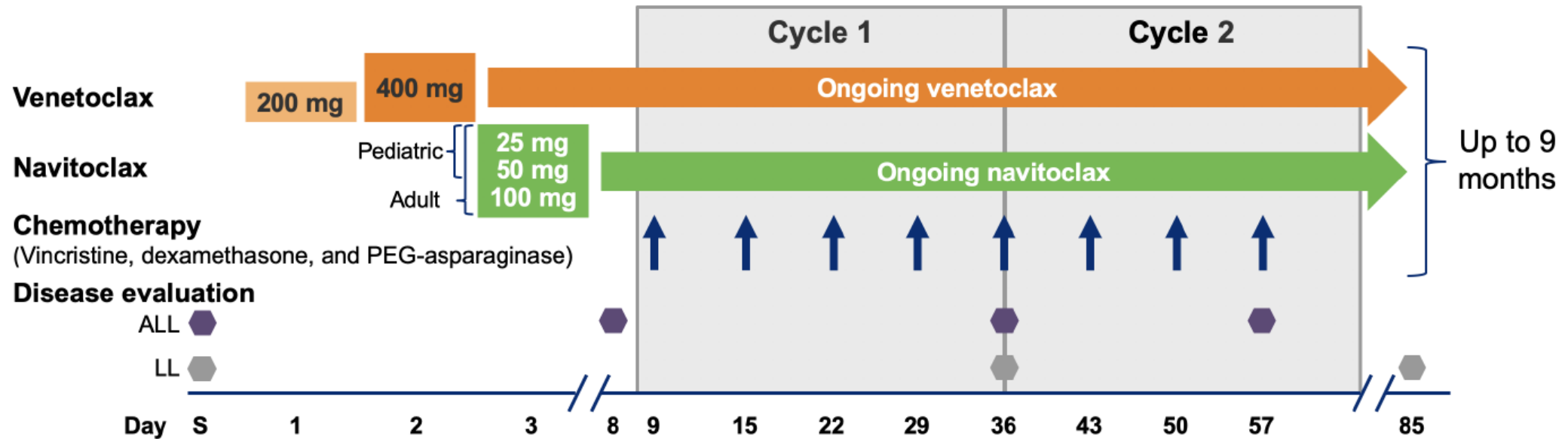
**Universitätsklinikum
Tübingen**

Akute lymphatische Leukämie

- **Blinatumumab in früheren Therapielinien einschließlich Erstlinientherapie**
 - Erstlinientherapie bei Erwachsenen mit Ph+ ALL, chemotherapiefrei Dasatinib + Blinatumumab (Brown et al.)
 - Kindliche ALL im 1. Rezidiv, Blinatumumab der Chemotherapie überlegen (Chiaretti et al.)
- **Neue Substanzen: Venetoclax und Navitoclax**
 - Venetoclax (Ven): hoch-selektiver BCL-2 Inhibitor
 - Navitoclax (Nav): BCL-2/BCL-XL/BCL-W-Inhibitor
 - Ven+Nav zeigte bei 32 ALL-Patienten gute Toleranz, keine unerwartete Toxizität und vielversprechende, vorläufige Wirksamkeit (EHA 2019. Abstr #PS940)
 - Vorstellung der Ergebnisse von Ven+Nav plus Chemotherapie bei 36 Patienten mit ALL oder LLy



M16-106 Studiendesign



Endpoints

Primary: Incidence of dose-limiting toxicities (DLTs), safety, and pharmacokinetics of venetoclax + navitoclax with chemotherapy

Secondary: Antitumor activity, patients proceeding to stem cell transplantation or CAR-T cell therapy



M16-106 Patientencharakteristika und Ergebnisse

Characteristic	Total (N=45)
Median age, y (range)	29 (6-72)
Diagnosis, n (%)	
B-ALL	24 (53)
T-ALL	18 (40)
LL	3 (7) ^a
ECOG performance status 0-2, n (%)	27 ^b (100)
Median baseline BM blasts, % (range)	31 (0-99)
Median prior therapies, n (range)	4 (1-10)
Median time since last therapy, mo (range)	2 (0.1-21)
Median time on study, mo (95% CI)	8 (6-12)

▪ Many patients had failed prior cellular therapies or immunotherapies

– Of patients with B-ALL:

- 50% had prior blinatumomab
- 29% had prior inotuzumab
- 29% had prior CAR-T

– 1 patient with T-ALL had received prior daratumumab

– 30% of all patients had received prior stem cell transplant

- Ven+Nav in Kombination mit Chemotherapie gut toleriert
- Vorläufige Wirksamkeit von Ven+Nav in dieser stark vorbehandelten Patientengruppe vielversprechend

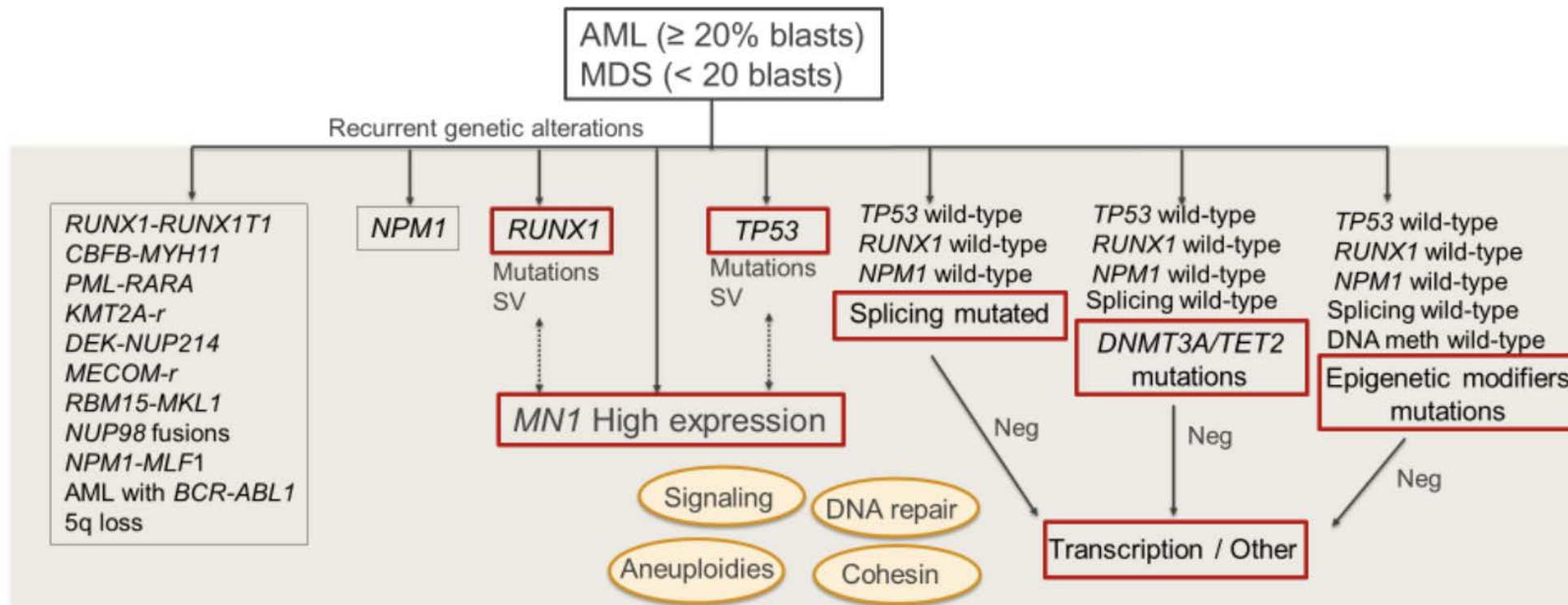
Response	B-ALL (n=24)	T-ALL (n=18)	LL (n=3)	Total (N=45)
CR/CRi/CRp, n (%)^a	13 (54)	7 (39)	2 (67)	22 (49)
CR	6 (25)	2 (11)	2 (67)	10 (22)
CRi	3 (13)	3 (17)	0 (0)	6 (13)
CRp	4 (17)	2 (11)	0 (0)	6 (13)
PR, n (%)^a	3 (13)	0 (0)	1 (33)	4 (9)
MRD-negative CR/CRi/CRp in ALL, n (%)^b	8 (33)	4 (22)	N/A^b	12 (29)^b
Median time to first response, mo (range)	1.1 (0.3-3.4)	1.1 (0.2-3.5)	1.2 (0.7-1.2)	1.2 (0.2-3.5)
Median DOR, mo (95% CI) ^c	9.1 (1.5-14.6)	4.2 (1.9-12.3)	NR (1.1-NE)	9.1 (1.9-11.5)
Median OS, mo (95% CI)	9.7 (4.0-15.7)	6.6 (3.3-12.5)	NR (2.1-NE)	9.7 (4.3-10.3)
Proceeded to SCT or CAR-T, n (%)	6 (25)	3 (17)	2 (67)	11 (24)



Akute myeloische Leukämie und Myelodysplastisches Syndrom

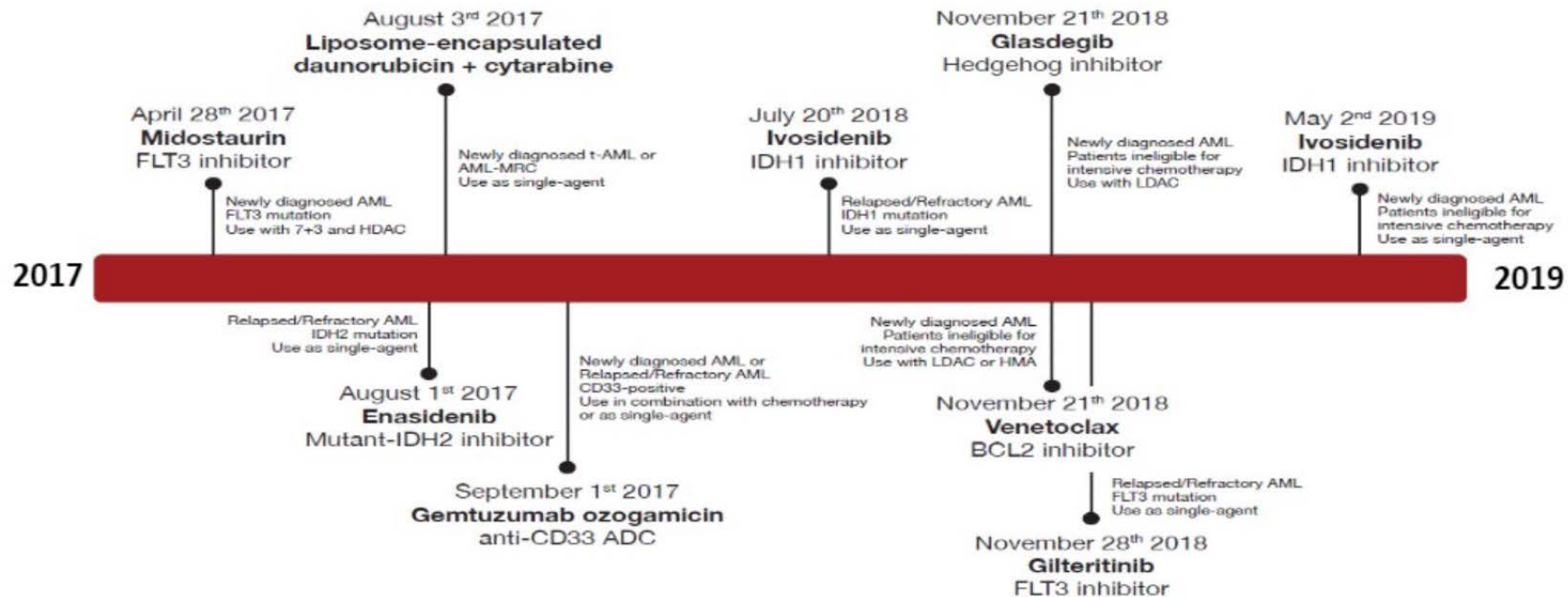
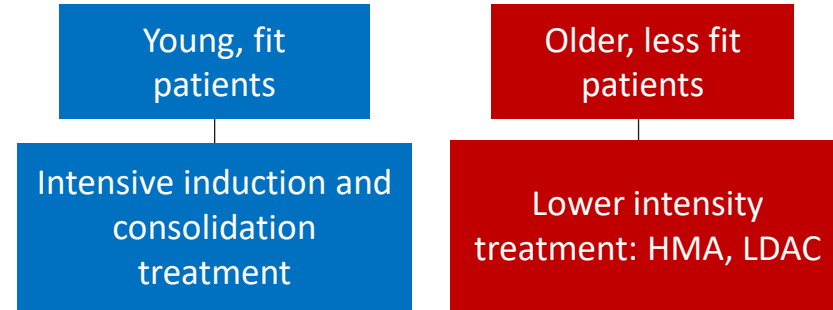
LBA-4: Integrated Transcriptomic and Genomic Sequencing Identifies Prognostic Constellations of Driver Mutations in Acute Myeloid Leukemia and Myelodysplastic Syndromes.

Ilaria Iacobucci *et al.*



Fortschritte in der AML-Therapie

Therapiealgorithmus AML (vor 2017)



Therapiealgorithmus AML 2020

Assessment of patient characteristics
(age, comorbidities, performance status, prior exposure to chemotherapy or radiotherapy)

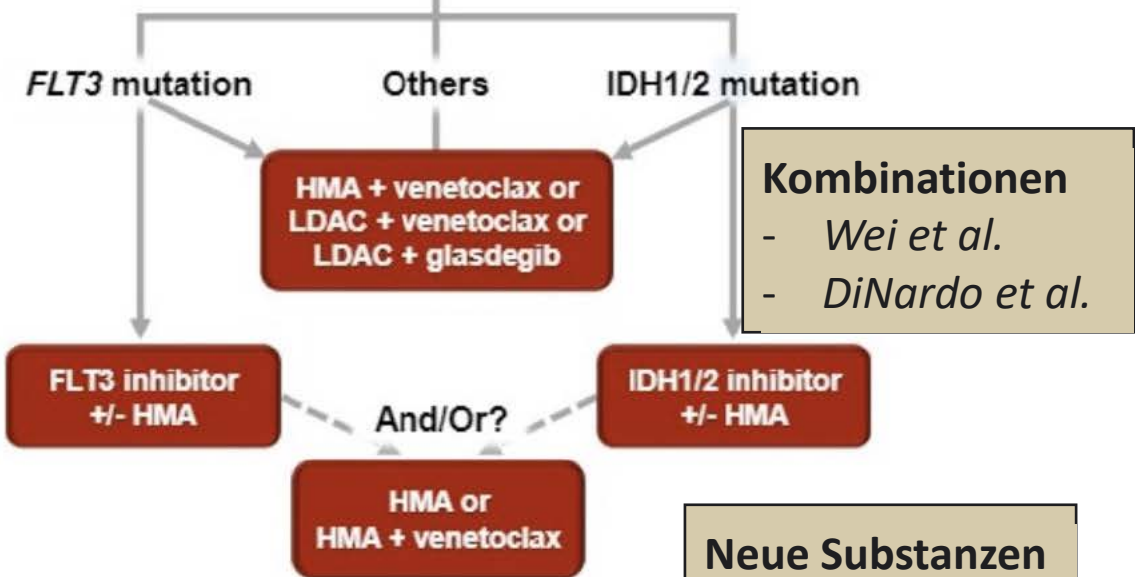
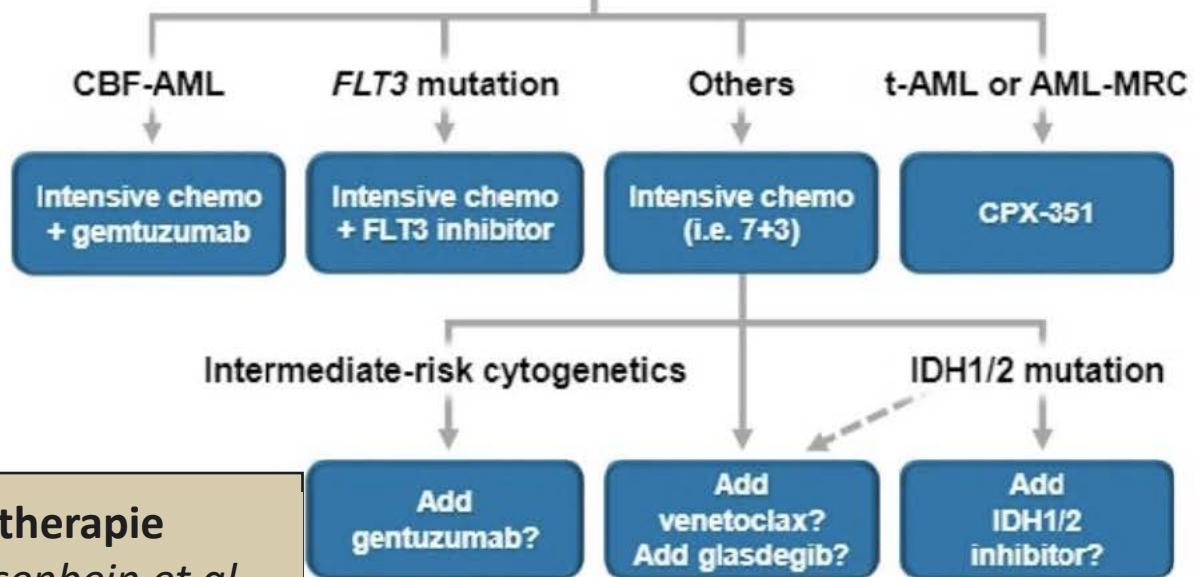
Comprehensive profiling of AML
(morphology, immunophenotype, cytogenetics, molecular analysis)

Genetische Diagnostik

- Rollig et al.
- Coleman Lindsley et al.

Patient ELIGIBLE for intensive chemotherapy

Patient INELIGIBLE for intensive chemotherapy



Kombinationen

- Wei et al.
- DiNardo et al.

Neue Substanzen

- Sallmann et al.

Immuntherapie

- Ochsenbein et al.
- Sallman et al.
- Subklewe et al.
- Kayser et al.

Quazar AML-001

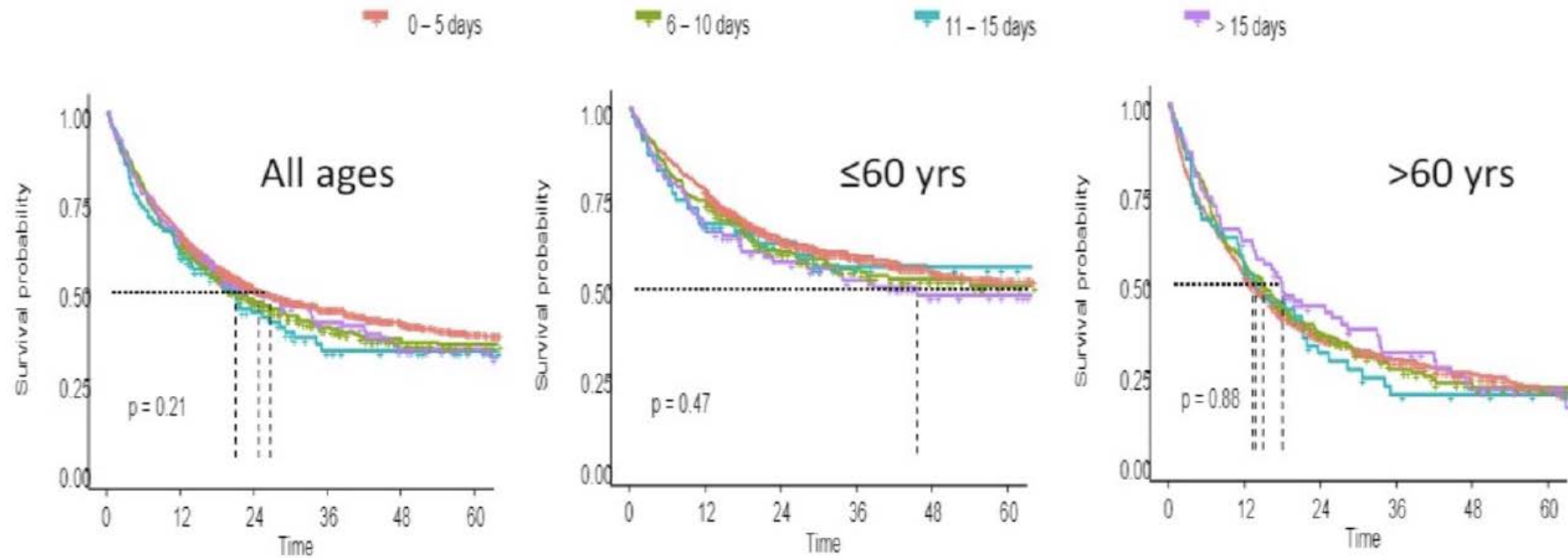
- Wie et al.

Maintenance?



Ist das Warten auf genetische Befunde bei Erstdiagnose sicher?

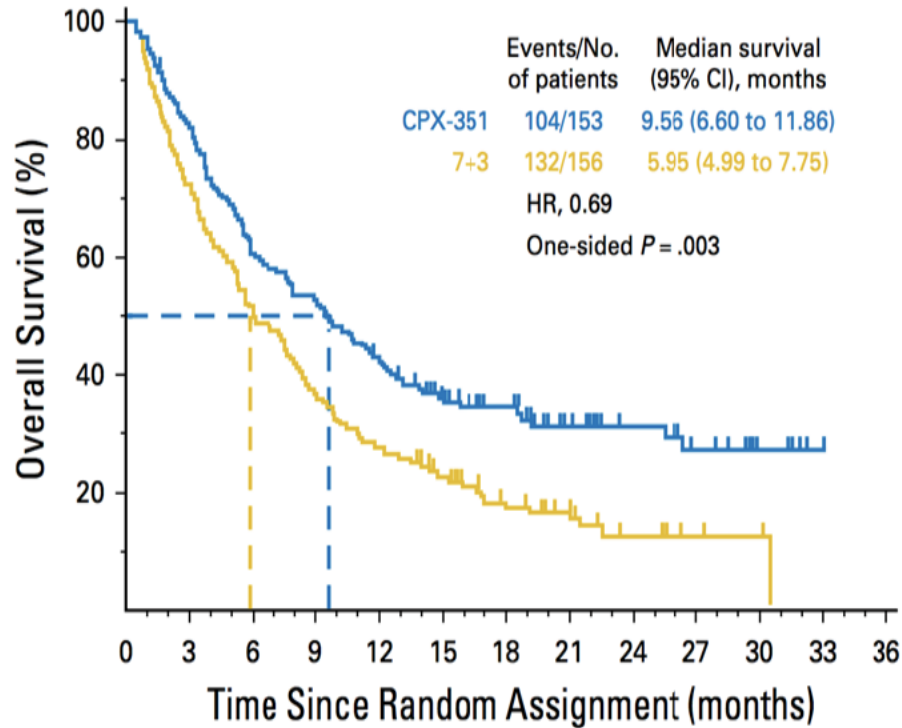
Over 2,200 patients treated with 7+3 based therapy through German SAL Registry



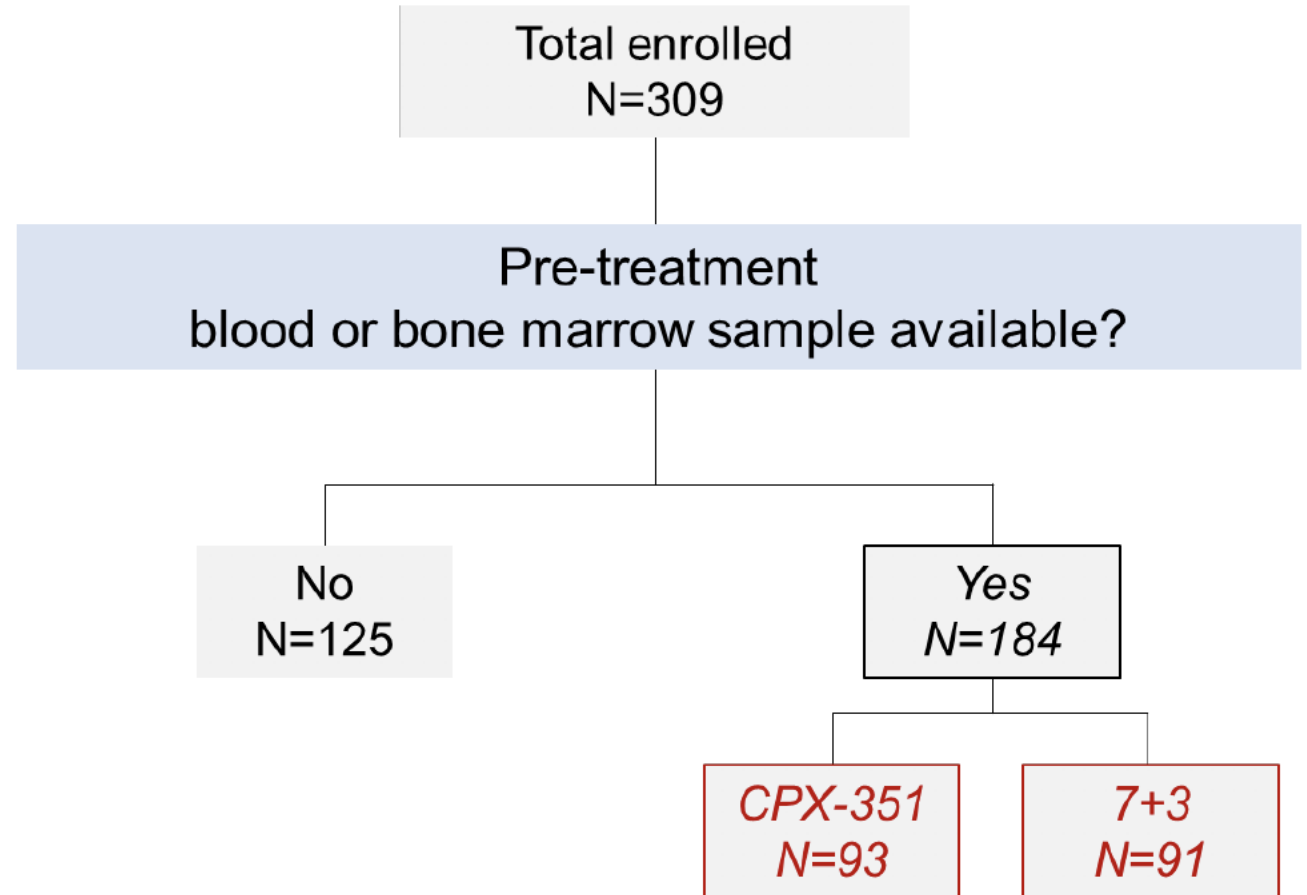
- Zeit von Diagnose bis Behandlungsbeginn beeinflusst weder CR, Frühmortalität noch OS in Patienten mit neu diagnostizierter AML und intensiver Therapie



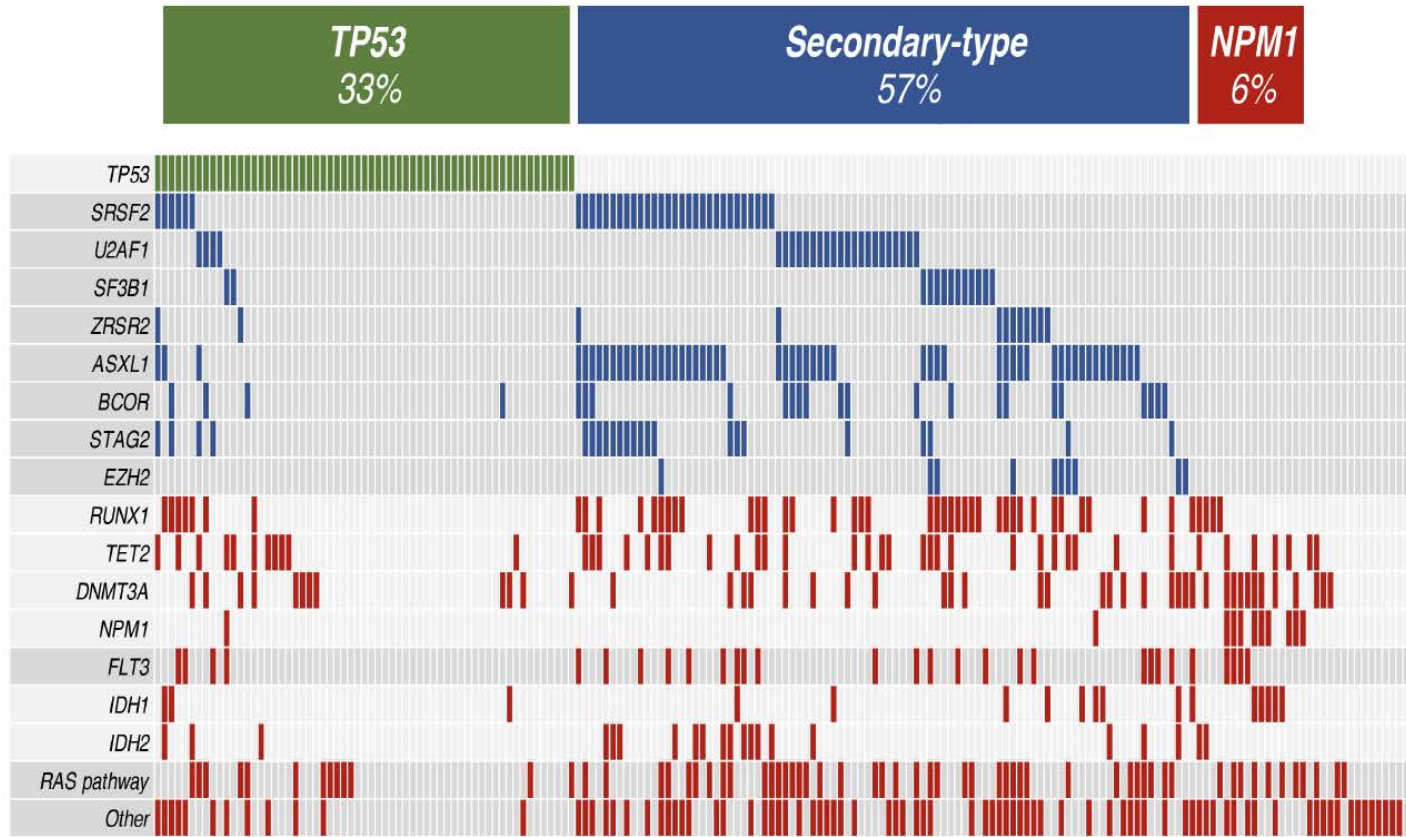
Genetische Charakteristika und Ansprechen auf CPX-351?



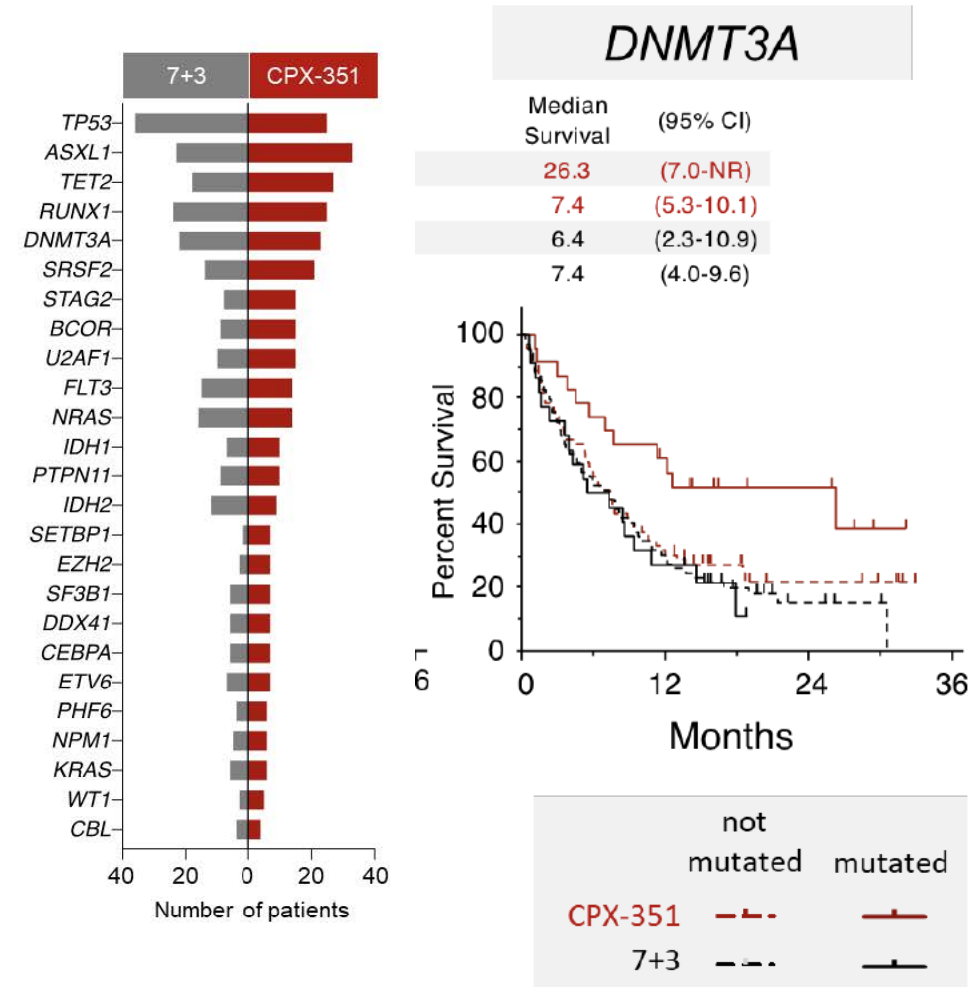
Lancet, et al. *J Clin Oncol*, 2018



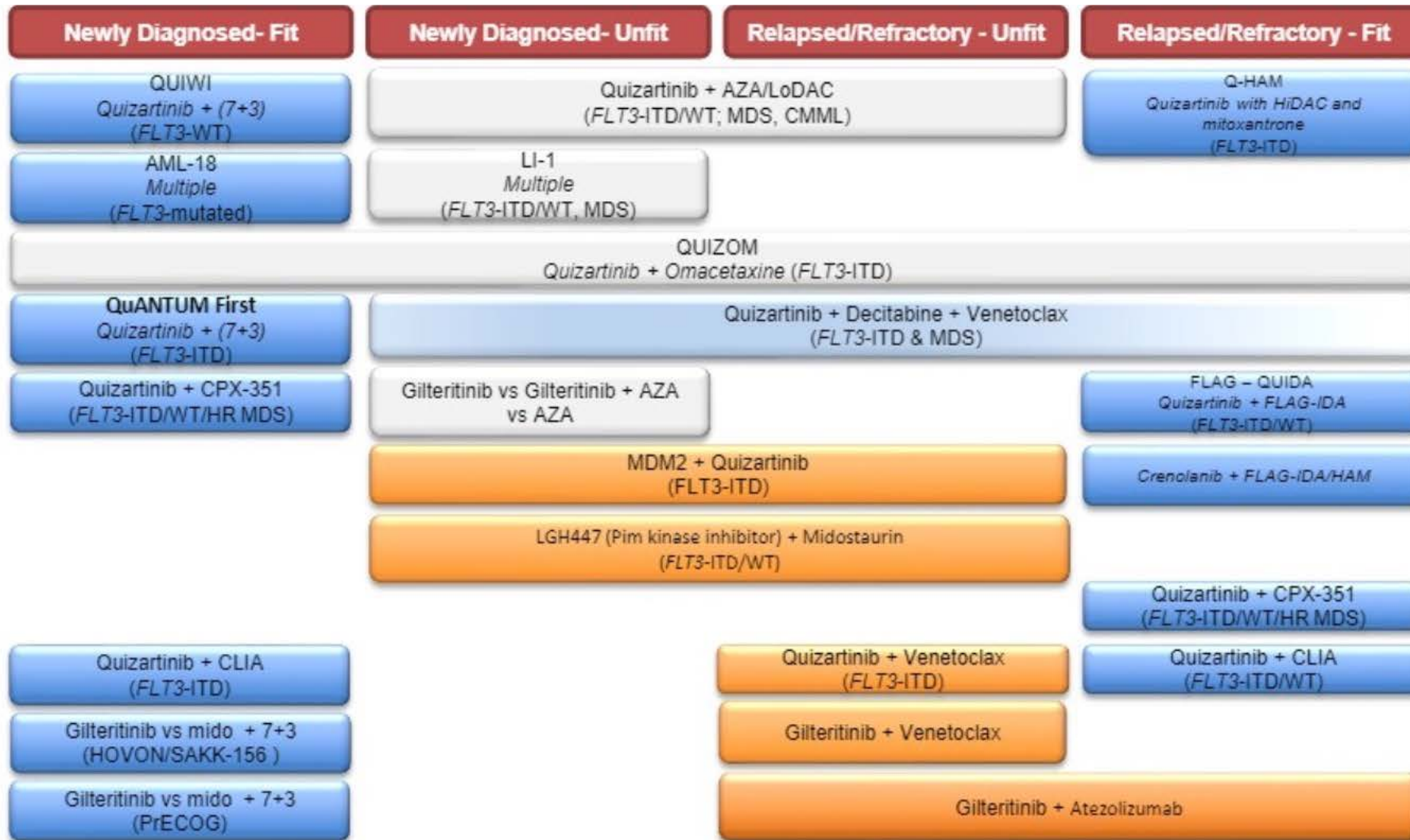
Genetische Charakteristika und Ansprechen auf CPX-351?



- TP53 Mutation unabhängig vom behandlungsarm mit schlechter Prognose
- OS für Patienten mit DNMT3A oder TET2 Mut. Etwas besser im CPX-351 Arm



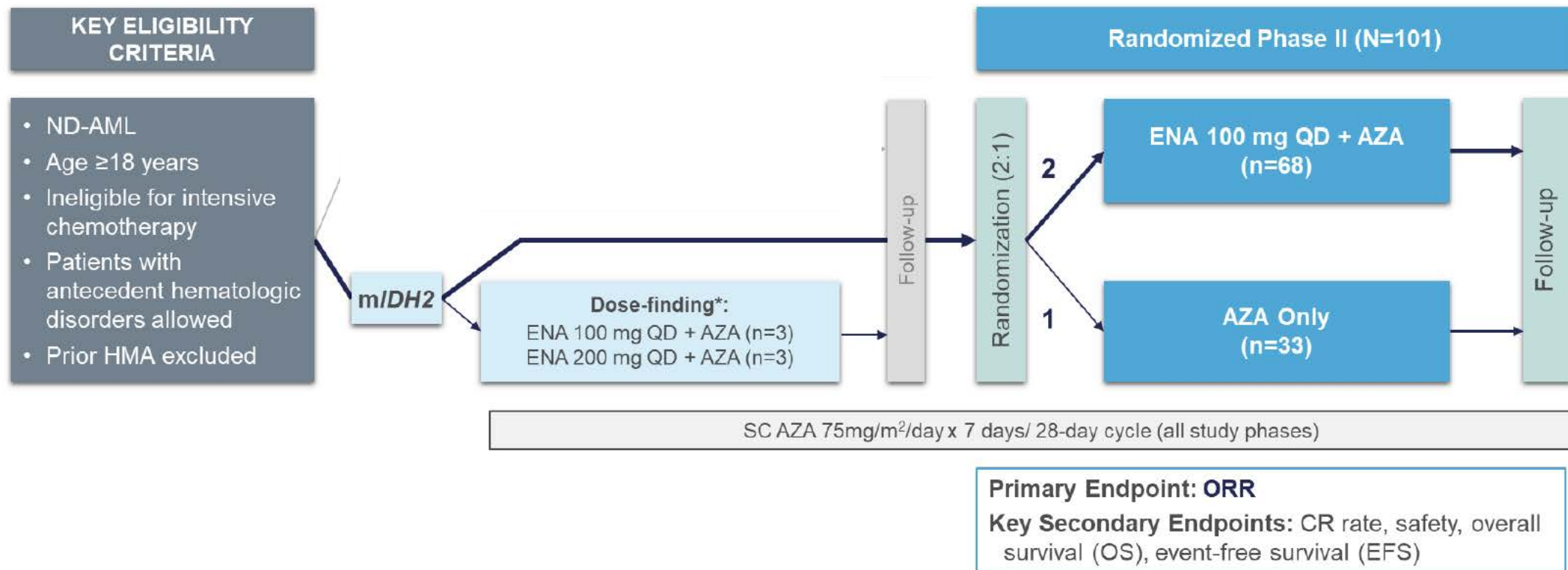
Kombinationstherapien mit FLT3-Inhibitoren



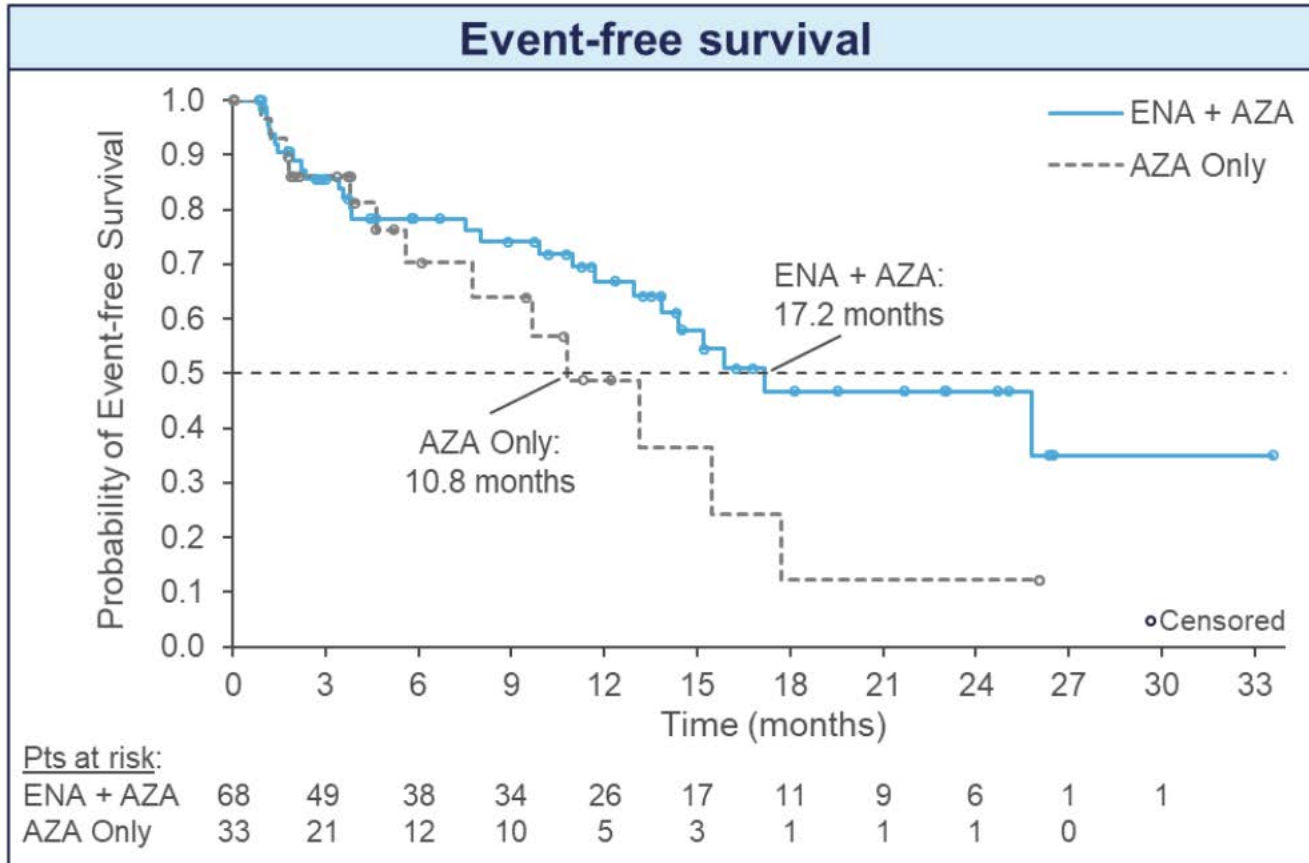
Kombination IDH2-Inhibition und Hypomethylierende Substanzen (HMA)

643: Enasidenib Plus Azacitidine Significantly Improves Complete Remission and Overall Response Compared with Azacitidine Alone in Patients with Newly Diagnosed Acute Myeloid Leukemia (AML) with Isocitrate Dehydrogenase 2 (IDH2) Mutations: Interim Phase II Results from an Ongoing, Randomized Study

Courtney D. DiNardo *et al.*, Houston, USA.



Kombination IDH2-Inhibition und Hypomethylierende Substanzen (HMA)



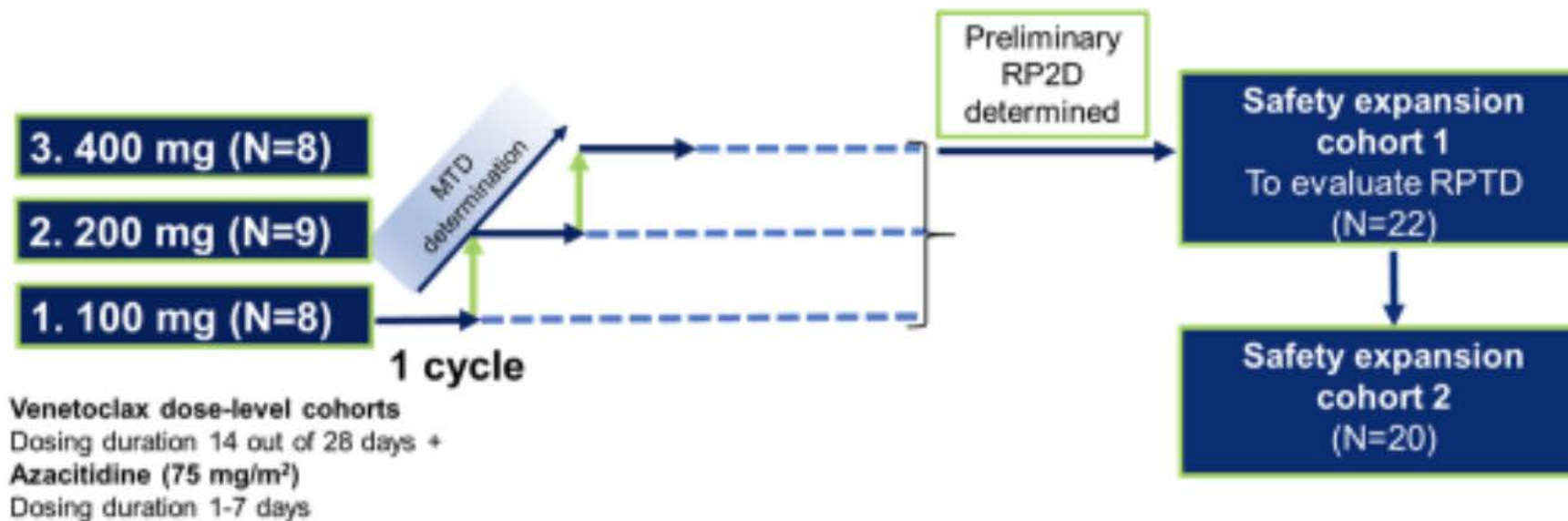
- ORR 71% ENA+AZA vs. AZA only
- CR 53% vs. 12%
- Ca. 20% MRD neg. in Kombinationsarm
- Gute Verträglichkeit



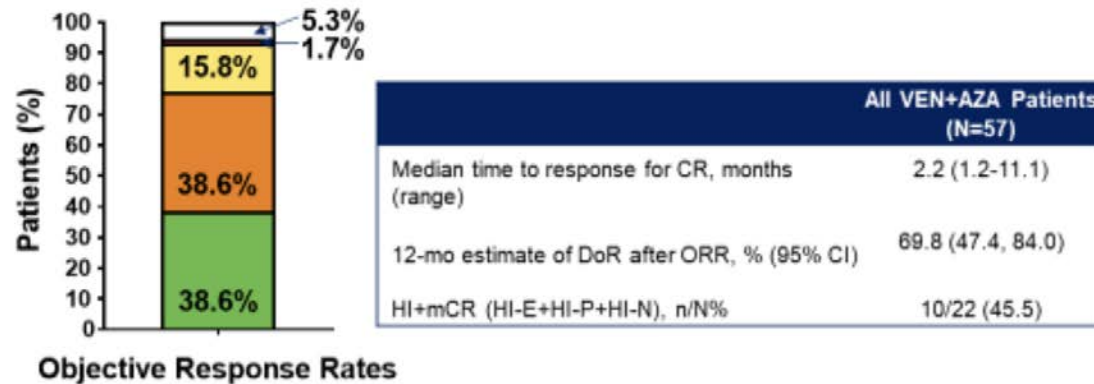
Kombination BCL2-Inhibition und Hypomethylierende Substanzen (HMA)

568: A Phase 1b Study Evaluating the Safety and Efficacy of Venetoclax in Combination with Azacitidine in Treatment-Naïve Patients with Higher-Risk Myelodysplastic Syndrome.

Andrew H. Wei *et al.*, Melbourne, Australien.

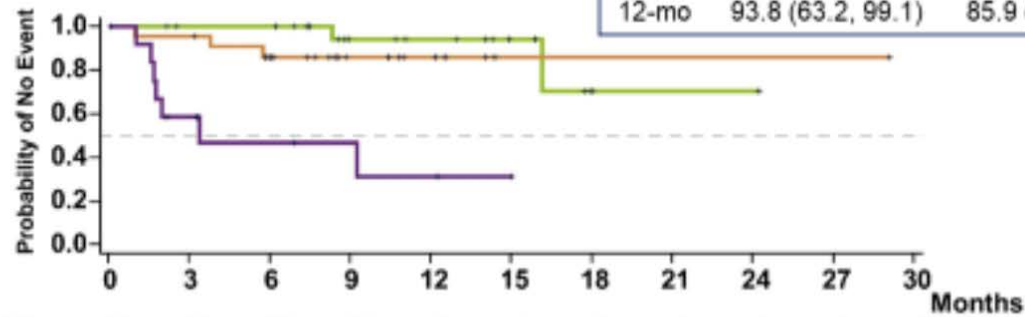


Kombination BCL2-Inhibition und Hypomethylierende Substanzen (HMA)



■ Complete Remission
 ■ Marrow Complete Remission
 ■ Stable Disease
■ Progressive Disease
 ■ Non Evaluable

Survival estimates* % (95% CI)			
	CR	mCR	Other
6-mo	100 (100, 100)	85.9 (62.4, 95.2)	46.7 (16.8, 72.2)
12-mo	93.8 (63.2, 99.1)	85.9 (62.4, 95.2)	31.1 (6.0, 61.7)



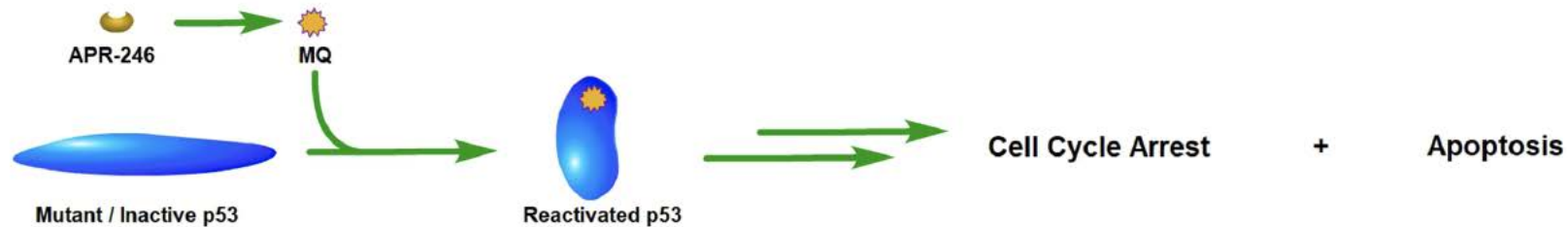
CR	22	20	20	11	9	5	2	1	1	0	0
mCR	22	21	16	8	5	1	1	1	1	1	0
Other	13	6	4	3	2	1	0	0	0	0	0

- VEN (400mg)+AZA gut verträglich
- Vielversprechende erste Wirksamkeitsdaten
- V²

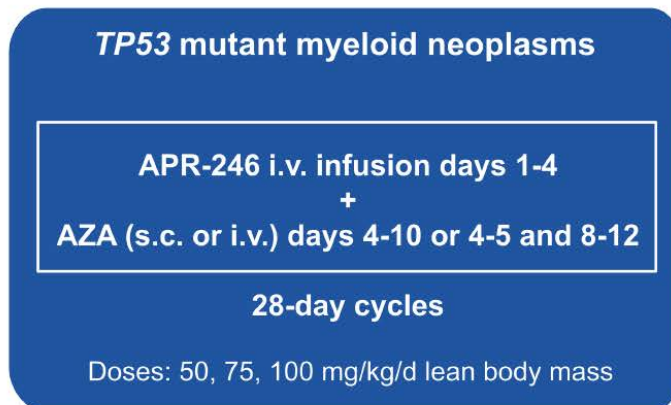


Neue Substanzen: APR-264, Apoptoseinduktor bei p53 Mutation

676: Phase 2 Results of APR-264 and Azacitidine (AZA) in Patients with TP53 mutant Myelodysplastic Syndromes (MDS) and Oligoblastic Acute Myeloid Leukemia (AML)
David A Sallman *et al.*, Tampa, USA.

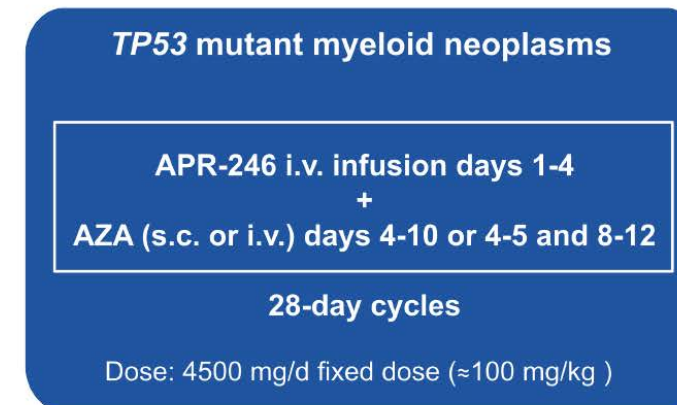


Phase 1b
Dose escalation (n=12)
Enrollment complete



55 patients

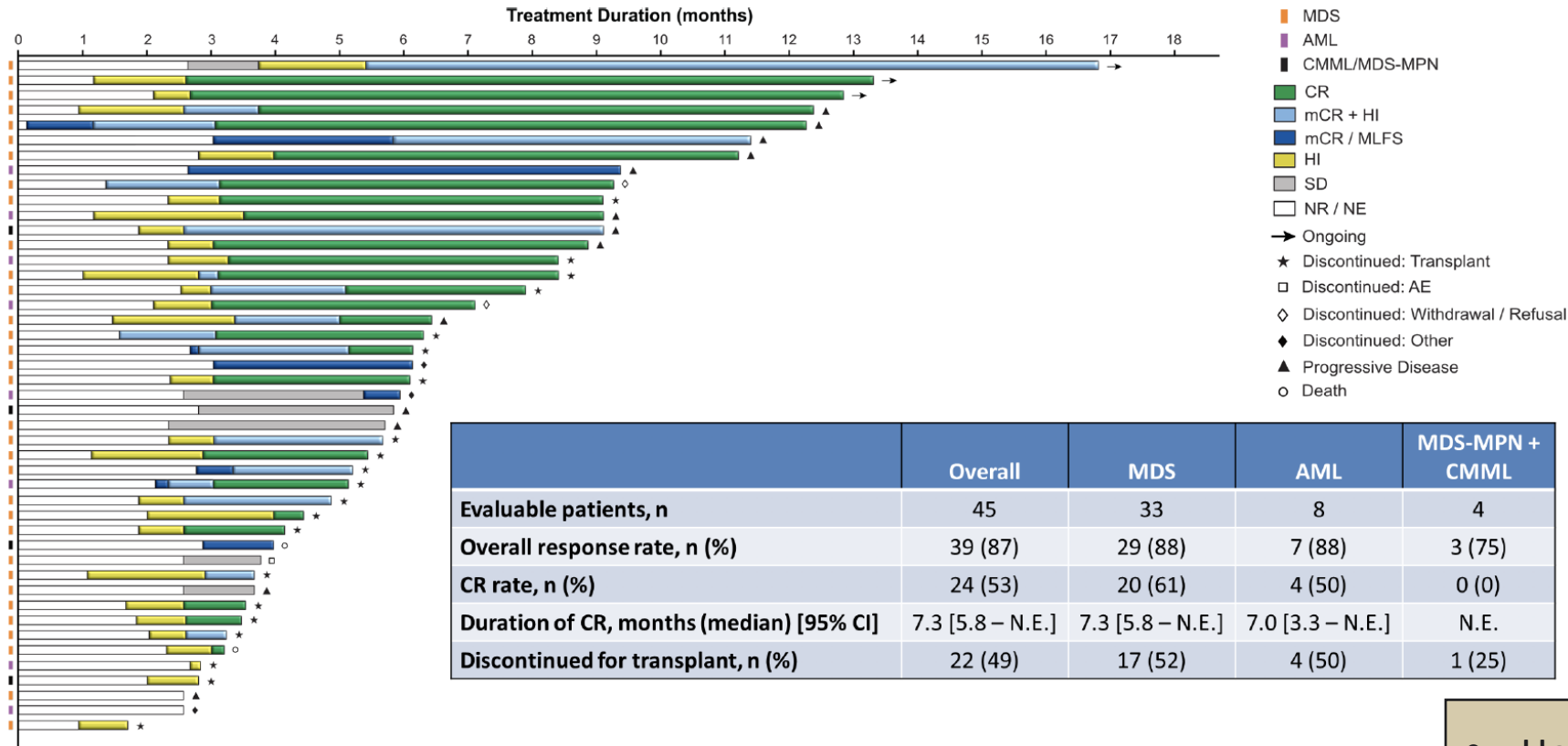
Phase 2
Dose expansion (n=43)
Enrollment complete



AML & MDS



Neue Substanzen: APR-264, Apoptoseinduktor bei p53 Mutation



	Overall	MDS	AML	MDS-MPN + CMML
Evaluable patients, n	45	33	8	4
Overall response rate, n (%)	39 (87)	29 (88)	7 (88)	3 (75)
CR rate, n (%)	24 (53)	20 (61)	4 (50)	0 (0)
Duration of CR, months (median) [95% CI]	7.3 [5.8 – N.E.]	7.3 [5.8 – N.E.]	7.0 [3.3 – N.E.]	N.E.
Discontinued for transplant, n (%)	22 (49)	17 (52)	4 (50)	1 (25)

Median duration of follow-up = 10.8 months

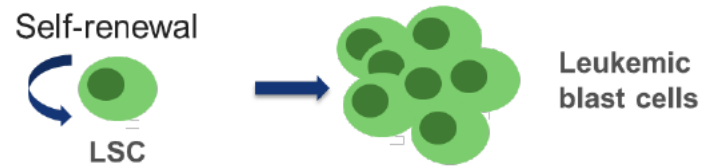
- Hohe Ansprechraten
- Vielversprechende Remissionsdauer mit molekularen Remissionen
- Phase III Studie läuft (NCT03745716)



Immuntherapeutische Ansätze

234: Targeting CD70 with Cusatuzumab Eliminates Acute Myeloid Leukemia Stem Cells in Humans

Adrian F Ochsenbein *et al.*, Bern, Schweiz

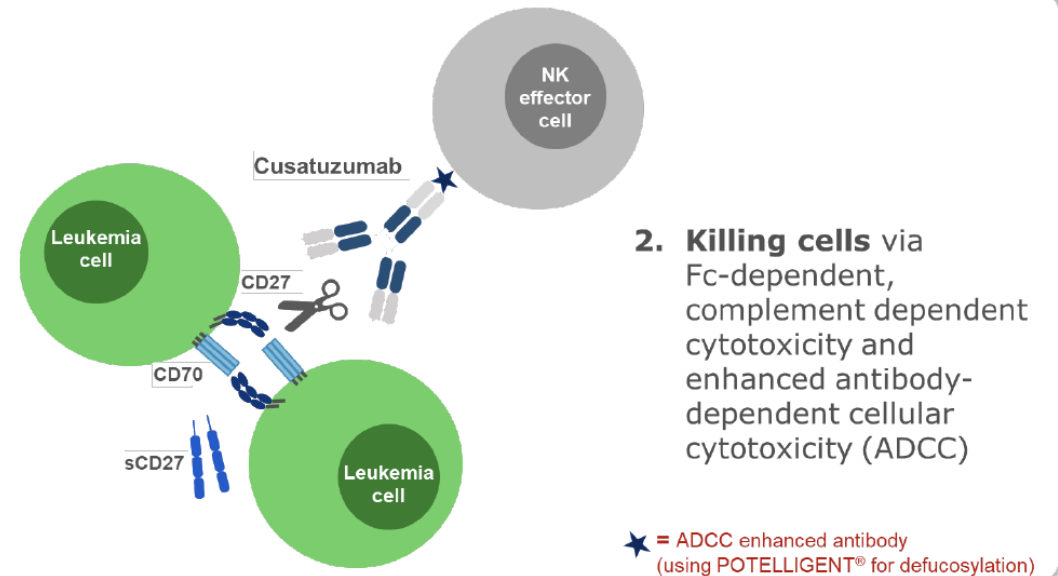


Rationale for targeting CD70:

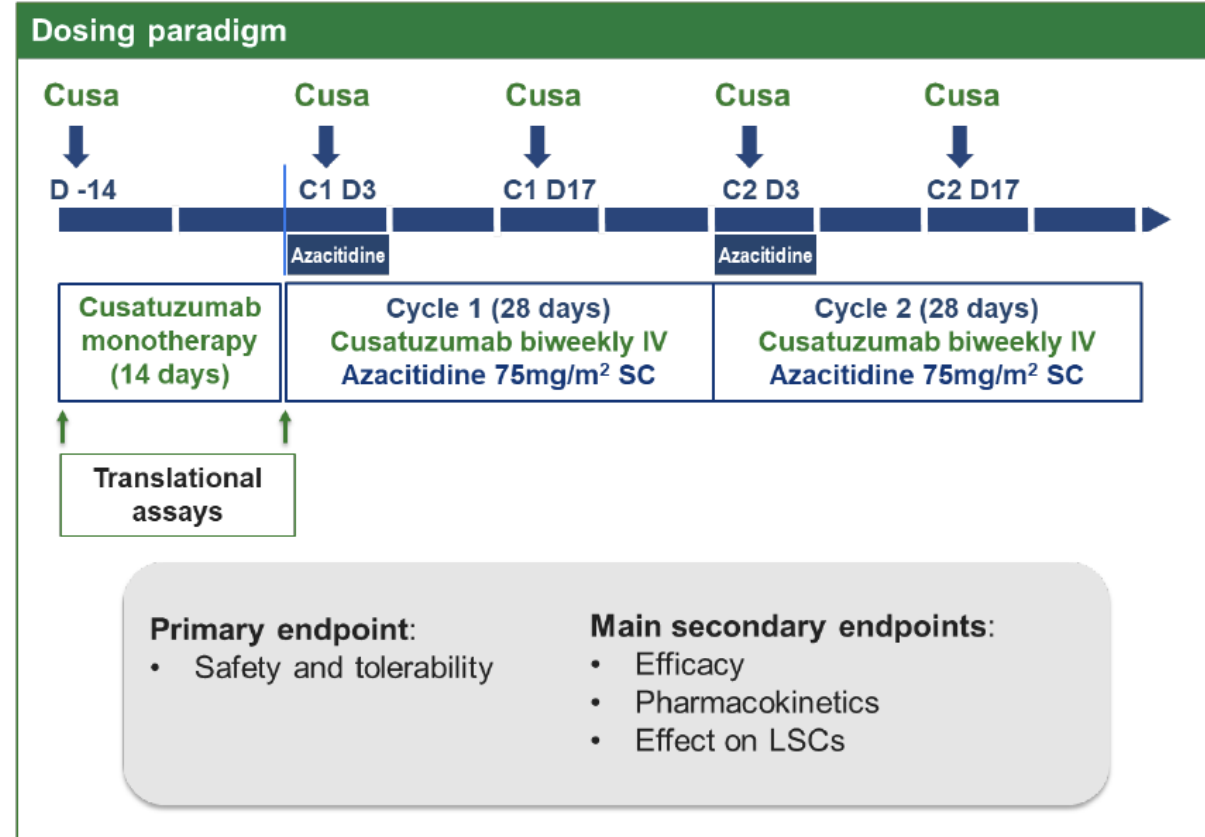
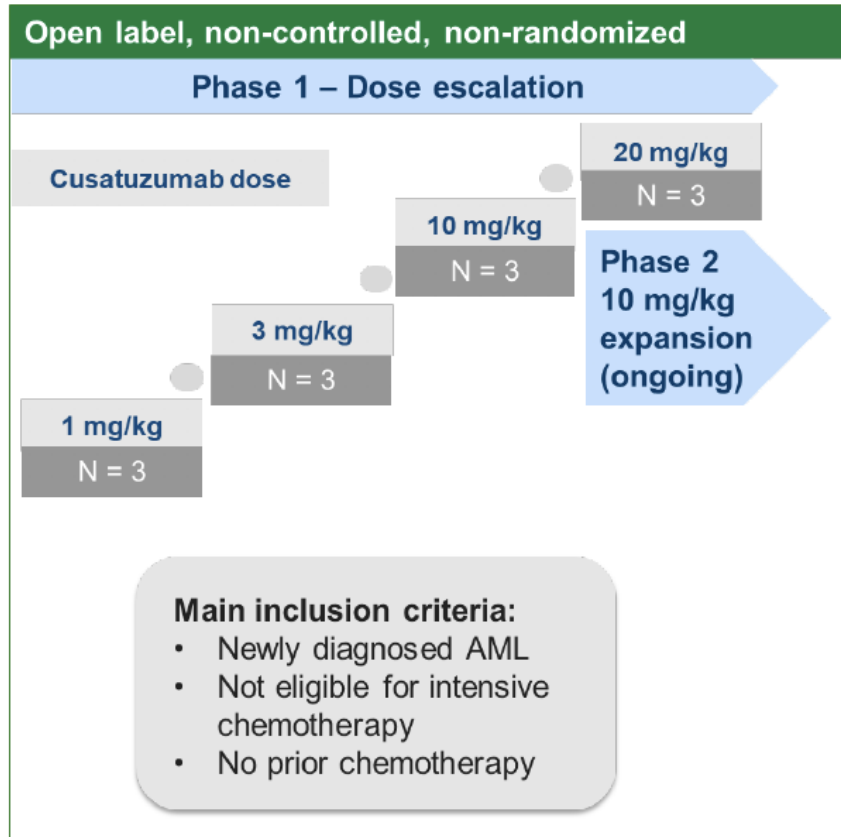
- **CD34⁺ AML cells** (progenitors and LSCs) consistently express **CD70**, and its **receptor CD27**
- **CD70 is not expressed on HSCs**, and is therefore a good target in AML⁸
- **Increased levels of CD70 expression** correlates with **resistance to chemotherapy** and **poor survival**^{9,10}

1. **Blocking CD70-CD27 signaling**, which leads to myeloid differentiation and stops proliferation of LSCs

- **Blocking release of soluble CD27**, which is generated by CD70-CD27 ligation



Casatuzumab (Monoklonaler CD70 Antikörper)



Casatuzumab (Monoklonaler CD70 Antikörper)



- 100% Ansprechen mit 83% CR/CRi
- 44% MRD Negativität
- Ansprechen auch bereits auf Monosubstanz



Flysyn (Monoklonaler, Fc-Optimierter FLT3 Antikörper)

3928: Interim Results of a First in Man Study with the Fc-Optimized FLT3 Antibody Flysyn for Treatment of Acute Myeloid Leukemia with Minimal Residual Disease Kayser et al.

Interim Results of a First in Human Study with the Fc-Optimized FLT3 Antibody FLYSYN for Treatment of Acute Myeloid Leukemia with Minimal Residual Disease

Sabine Kayser,^{1,2} Jonas S. Heilmann,^{3,4} Daniela Dürfel,^{3,4} Felicitas Thol,⁵ Michael Heuser,⁶ Carsten Müller-Tidow,⁶ Uwe Platzbecker,⁷ Melanie Märklin,² Martin Steiner,⁷ Ludger Grosse-Hovest,⁷ Gundram Jung,⁸ Richard F. Schenk,^{2,4} Helmuth R. Sallh^{2,4}

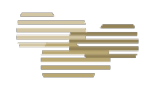
¹Medical Clinic and Polyclinic I, Hematology and Cellular Therapy, University Hospital Leipzig, Leipzig, Germany; ²German Cancer Research Center (DKFZ), Heidelberg, Germany; ³Clinical Collaboration Unit Translational Immunology, German Cancer Consortium (DKTK) and German Cancer Research Center (DKFZ), Partner site Tübingen, Germany; ⁴Department of Hematology and Oncology, Eberhard Karls University, Tübingen, Germany; ⁵Department of Hematology, Hemostasis, Oncology, and Stem Cell Transplantation, Hannover Medical School, Hannover, Germany; ⁶Department of Internal Medicine V, University Hospital of Heidelberg, Heidelberg, Germany; ⁷Symphona GmbH, Tübingen, Germany; ⁸Department of Immunology, Eberhard Karls University, Tübingen, Germany; ⁹National Center for Tumor Diseases, Heidelberg, Germany

Introduction	Treatment	Results																																																																																																																														
<p>Substantial surface expression (70-100%) of the FLT3 receptor can be measured on blast cells in 30-50% of acute myeloid leukemia (AML) patients, while no or only low levels are expressed on healthy cells like monocytes and progenitor stem cells. Thus, FLT3 may be a suitable and highly selective target for therapeutic antibodies. Despite achievement of complete remission, roughly half of AML patients display minimal residual disease (MRD) after end of therapy and relapse. FLYSYN is a chimeric Fc-optimized IgG1 antibody with enhanced ADCC activity and binds specifically and with high avidity to human FLT3 (CD135). Despite achievement of complete remission, roughly half of AML patients display minimal residual disease (MRD).</p> <p>Objectives</p> <ul style="list-style-type: none"> To determine the safety profile of FLYSYN as single agent treatment in MRD positive AML at various dose levels To define the pharmacokinetic and pharmacodynamic profile of FLYSYN To evaluate the immunogenic potential of FLYSYN To evaluate the preliminary efficacy of FLYSYN 	<p>Study Schedule:</p> <p>Study Schedule:</p> <table border="1"> <thead> <tr> <th>Cohort</th> <th># Patients</th> <th>Day 1</th> <th>Day 2</th> <th>Day 15</th> <th>Day 28</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3</td> <td>0.5 mg/m²</td> <td>1.5 mg/m²</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>3</td> <td>0.5 mg/m²</td> <td>4.5 mg/m²</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>3</td> <td>0.5 mg/m²</td> <td>14.5 mg/m²</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>3</td> <td>0.5 mg/m²</td> <td>44.5 mg/m²</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>3</td> <td>0.5 mg/m²</td> <td>14.5 mg/m²</td> <td>15 mg/m²</td> <td>15 mg/m²</td> </tr> <tr> <td>6</td> <td>10</td> <td>0.5 mg/m²</td> <td>14.5 mg/m²</td> <td>15 mg/m²</td> <td>15 mg/m²</td> </tr> </tbody> </table> <p>Study Status: Interim analysis after 8 patients of Cohort 4 completed visit at day 43 Treatment of 3 patients in Cohort 5 completed Recruiting of 3 patients in Cohort 6 completed</p> <p>Patient Characteristics at Diagnosis</p> <table border="1"> <thead> <tr> <th>Characteristic</th> <th>n</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Gender: Female</td> <td>12</td> <td>37.1</td> </tr> <tr> <td>Median Age (range 21-65)</td> <td>60</td> <td></td> </tr> <tr> <td>AML</td> <td></td> <td></td> </tr> <tr> <td>de novo</td> <td>16</td> <td>76.2</td> </tr> <tr> <td>secondary</td> <td>1</td> <td>6.8</td> </tr> <tr> <td>FLT3 status</td> <td></td> <td></td> </tr> <tr> <td>FLT3-IT1</td> <td>16</td> <td>76.2</td> </tr> <tr> <td>FLT3-IT2</td> <td>4</td> <td>19.0</td> </tr> <tr> <td>FLT3-IT3</td> <td>1</td> <td>6.8</td> </tr> <tr> <td>MRD Marker</td> <td></td> <td></td> </tr> <tr> <td>CD133</td> <td>19</td> <td>90.5</td> </tr> <tr> <td>FLT3-IT1/IT2</td> <td>1</td> <td>6.8</td> </tr> <tr> <td>CD133</td> <td>1</td> <td>6.8</td> </tr> </tbody> </table>	Cohort	# Patients	Day 1	Day 2	Day 15	Day 28	1	3	0.5 mg/m ²	1.5 mg/m ²			2	3	0.5 mg/m ²	4.5 mg/m ²			3	3	0.5 mg/m ²	14.5 mg/m ²			4	3	0.5 mg/m ²	44.5 mg/m ²			5	3	0.5 mg/m ²	14.5 mg/m ²	15 mg/m ²	15 mg/m ²	6	10	0.5 mg/m ²	14.5 mg/m ²	15 mg/m ²	15 mg/m ²	Characteristic	n	%	Gender: Female	12	37.1	Median Age (range 21-65)	60		AML			de novo	16	76.2	secondary	1	6.8	FLT3 status			FLT3-IT1	16	76.2	FLT3-IT2	4	19.0	FLT3-IT3	1	6.8	MRD Marker			CD133	19	90.5	FLT3-IT1/IT2	1	6.8	CD133	1	6.8	<p>Results:</p> <p>Toxicity: 3 only</p> <p>DLT: No</p> <p>AEs: Grade 2 gastrointestinal toxicities & laboratory abnormalities, manageable with supportive care</p> <p>Antibodies: No detection of human anti-mouse or anti-human antibodies after treatment.</p> <p>Pharmacokinetics: half-life of FLYSYN of roughly 6.5 days</p> <p>Pharmacodynamics:</p> <table border="1"> <thead> <tr> <th>Cohort</th> <th># Pat.</th> <th>MRD neg.</th> <th>MRD pos.</th> <th>Permanent MRD neg.</th> <th>No. Response</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3</td> <td>1</td> <td></td> <td>1</td> <td>1</td> </tr> <tr> <td>2</td> <td>3</td> <td></td> <td>1</td> <td></td> <td>2</td> </tr> <tr> <td>3</td> <td>3</td> <td></td> <td>1</td> <td></td> <td>2</td> </tr> <tr> <td>4</td> <td>3</td> <td></td> <td>2</td> <td></td> <td>7</td> </tr> <tr> <td>5</td> <td>3</td> <td></td> <td>1</td> <td>1</td> <td>2</td> </tr> <tr> <td>Total</td> <td>21</td> <td>1</td> <td>5</td> <td>1</td> <td>14</td> </tr> </tbody> </table> <p>Overall response: 7 patients achieved MRD response (33 %) 1 patient enduring MRD negative for >1 year</p> <p>Conclusions</p> <ul style="list-style-type: none"> Our data suggest that FLYSYN is safe and very well tolerated as single agent therapy in MRD positive AML patients. Preliminary efficacy data are promising, and recruiting is ongoing in cohort 6 in which patients will receive three repetitive doses of 15 mg/m². 	Cohort	# Pat.	MRD neg.	MRD pos.	Permanent MRD neg.	No. Response	1	3	1		1	1	2	3		1		2	3	3		1		2	4	3		2		7	5	3		1	1	2	Total	21	1	5	1	14
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FLT3 status																																																																																																																																
FLT3-IT1	16	76.2																																																																																																																														
FLT3-IT2	4	19.0																																																																																																																														
FLT3-IT3	1	6.8																																																																																																																														
MRD Marker																																																																																																																																
CD133	19	90.5																																																																																																																														
FLT3-IT1/IT2	1	6.8																																																																																																																														
CD133	1	6.8																																																																																																																														
Cohort	# Pat.	MRD neg.	MRD pos.	Permanent MRD neg.	No. Response																																																																																																																											
1	3	1		1	1																																																																																																																											
2	3		1		2																																																																																																																											
3	3		1		2																																																																																																																											
4	3		2		7																																																																																																																											
5	3		1	1	2																																																																																																																											
Total	21	1	5	1	14																																																																																																																											

	Cohort 1	Cohort 2	Cohort 3	Cohort 4	Cohort 5	Cohort 6
Patienten	1-3	4-6	7-9	10-18	19-21	22-31
FLYSYN	Tag1: 0,5mg/m ²	0,5mg/m ²	0,5mg/m ²	0,5mg/m ²	0,5mg/m ²	0,5mg/m ²
	Tag2: --	1,0mg/m ²	4,5mg/m ²	14,5mg/m ²	14,5mg/m ²	14,5mg/m ²
	Tag15: --	--	--	--	--	15mg/m ²
	Tag29: --	--	--	--	--	15mg/m ²

- 21 Patienten behandelt
- Keine relevante Toxizität
- 33% (7 Pat.) zeigten MRD-Ansprechen, 5 Patienten wurden MRD negativ

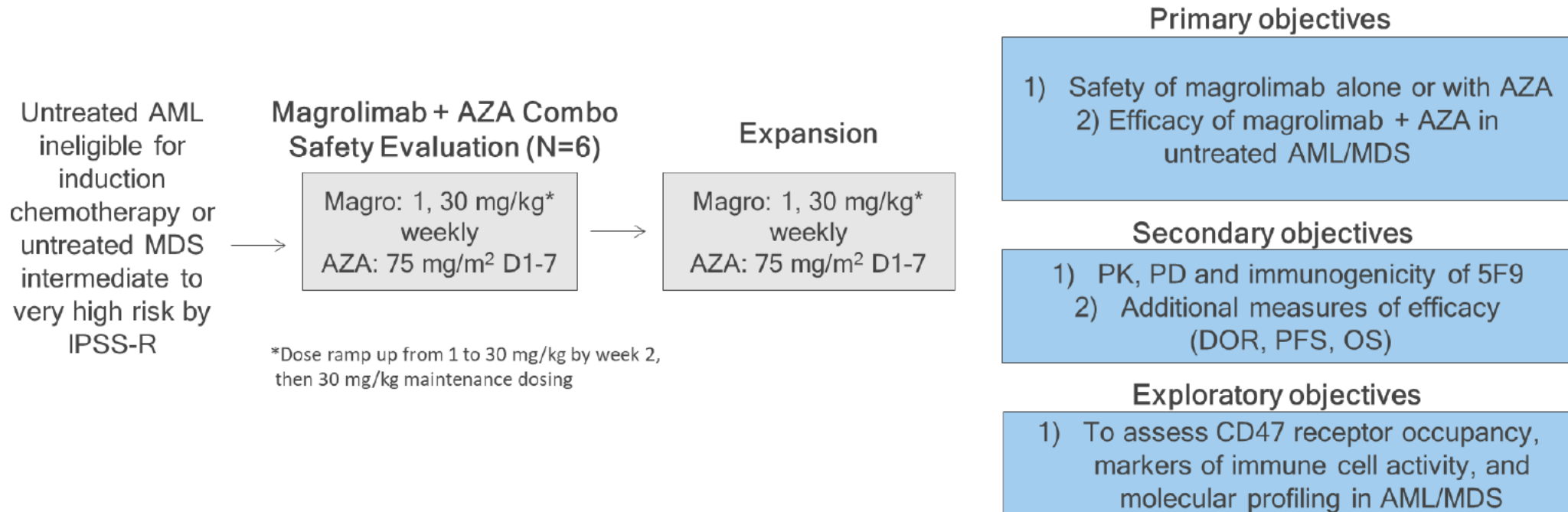
Studienanfragen:
KKE Translationale Immunologie
 KKETI@med.uni-tuebingen.de



Magrolimumab (Monoklonaler, Anti-CD47 Antibody)

569: The First-in-Class Anti-CD47 Antibody Magrolimab (5F9) in Combination with Azacitidine Is Effective in MDS and AML Patients: Ongoing Phase 1b Results

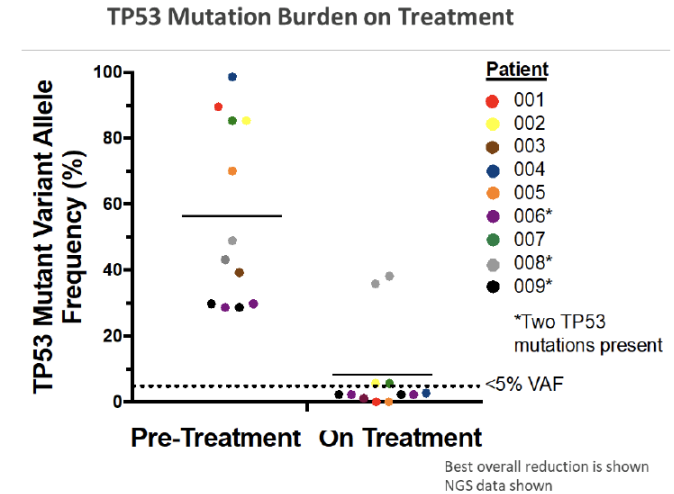
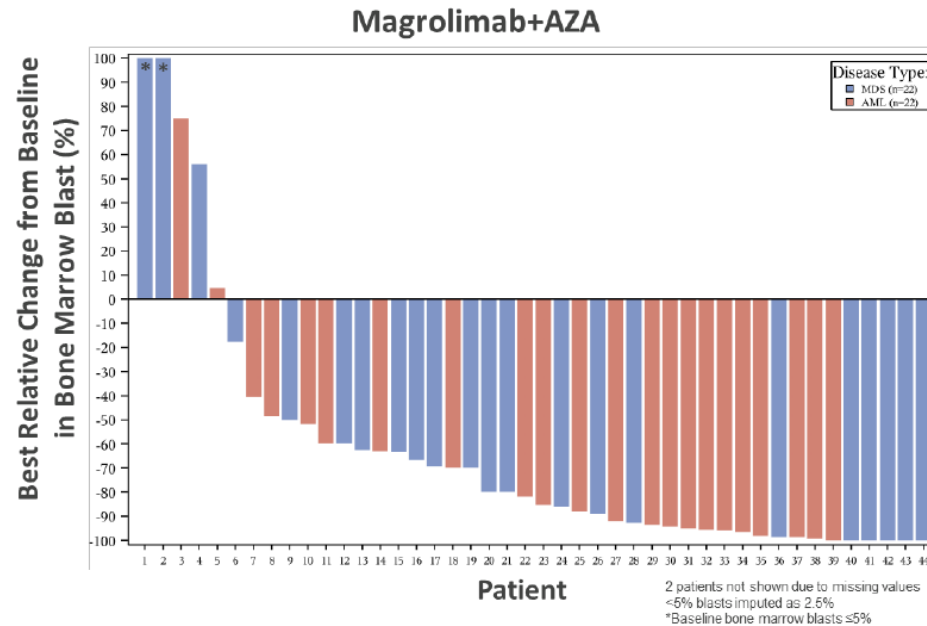
David A Sallman *et al.*, Tampa, USA.



Magrolimumab (Monoklonaler, Fc-Optimierter FLT3 Antikörper)

Best Overall Response	1L MDS N=24	1L AML N=22
ORR	22 (92%)	14 (64%)
CR	12 (50%)	9 (41%)
CRi	-	3 (14%)
PR	0	1 (5%)
MLFS/ marrow CR	8 (33%) 4 with marrow CR + HI	1 (5%)
Hematologic improvement (HI)	2 (8%)	-
SD	2 (8%)	7 (32%)
PD	0	1 (5%)

Response assessments per 2006 IWG MDS criteria and 2017 AML ELN criteria; Patients with at least one post-treatment response assessment are shown, all other patients are on therapy and are too early for first response assessment, except for 2 MDS patients not evaluable (withdrawal of consent) and 3 AML (1 AE, 2 early withdrawal)
 "-" not applicable

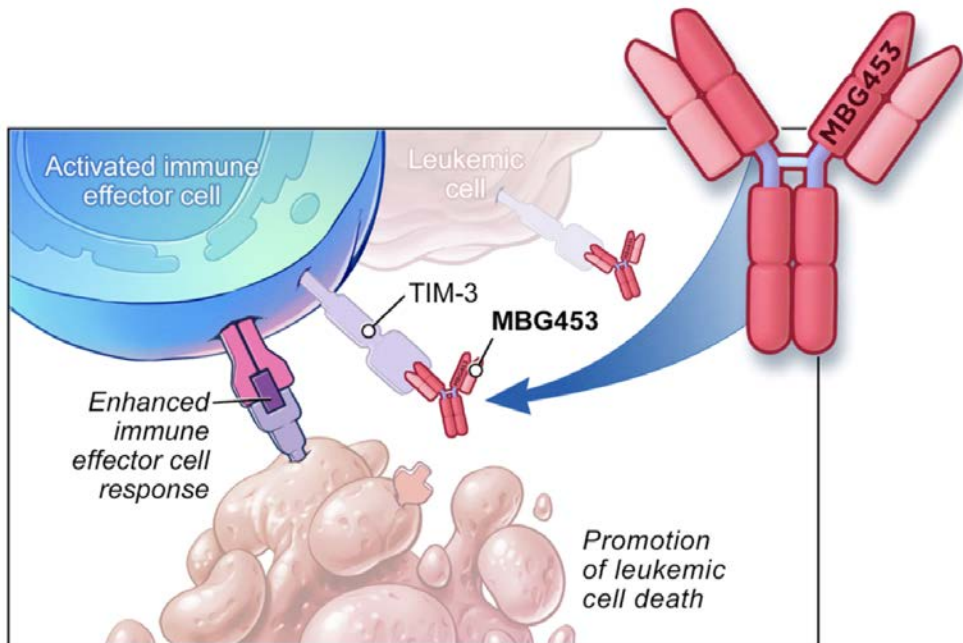


- 46 Patienten behandelt
- Gute Verträglichkeit
- Hohe ORR und CR Raten
- Hohe Ansprechrate und MRD Negativität auch in TP53 mut. Patienten

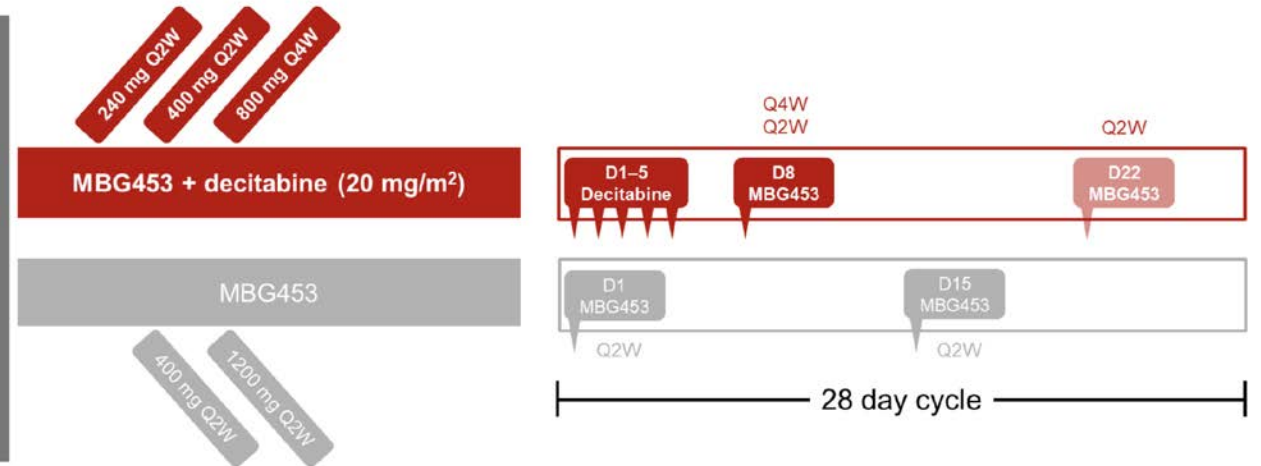


MBG453 (Anti-TIM3-Antibody)

570: Phase Ib Study of the Anti-TIM-3 Antibody MBG453 in Combination with Decitabine in Patients with High-Risk Myelodysplastic Syndrome (MDS) and Acute Myeloid Leukemia (AML)
Uma Borate *et al.*, Portland, USA.



Patients with newly diagnosed or R/R AML or high- or very high-risk MDS



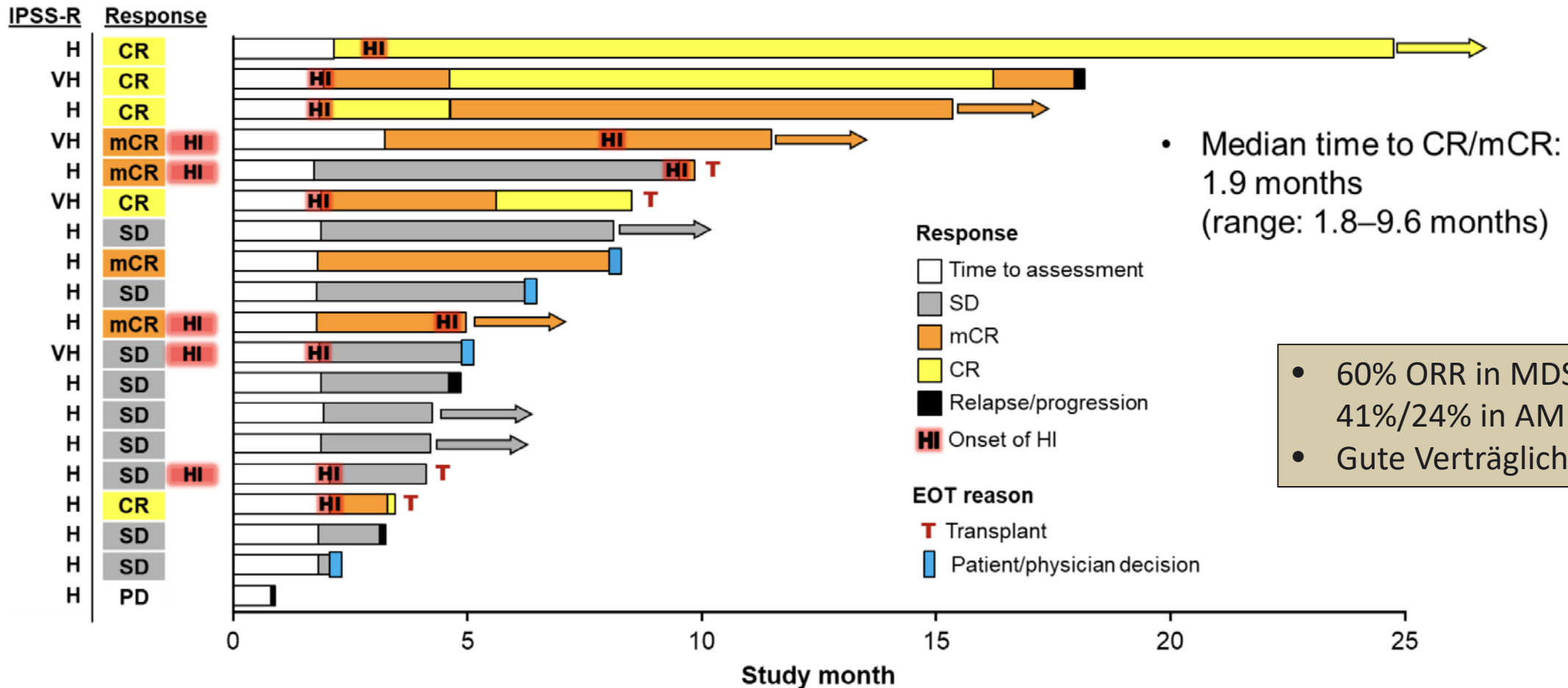
Study objectives

Primary: Safety and tolerability, recommended dose for future study

Secondary: Preliminary efficacy, PK



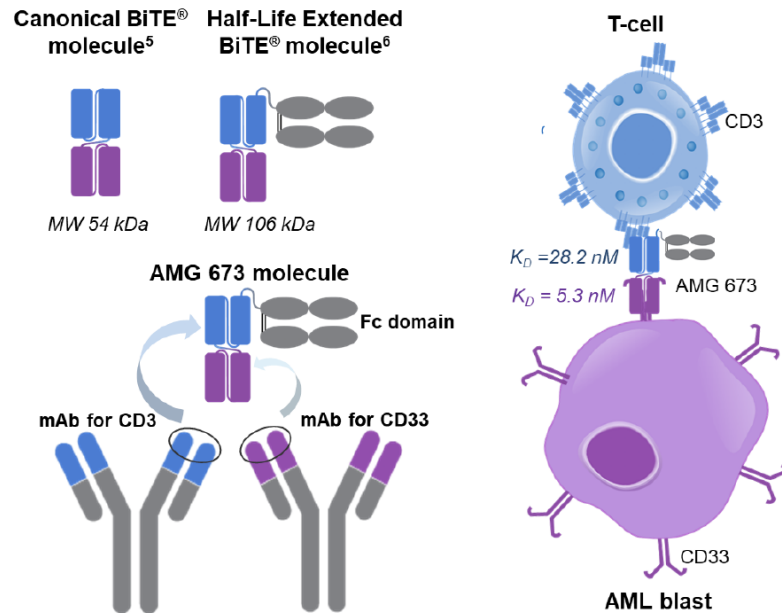
MBG453 (Anti-TIM3-Antibody)



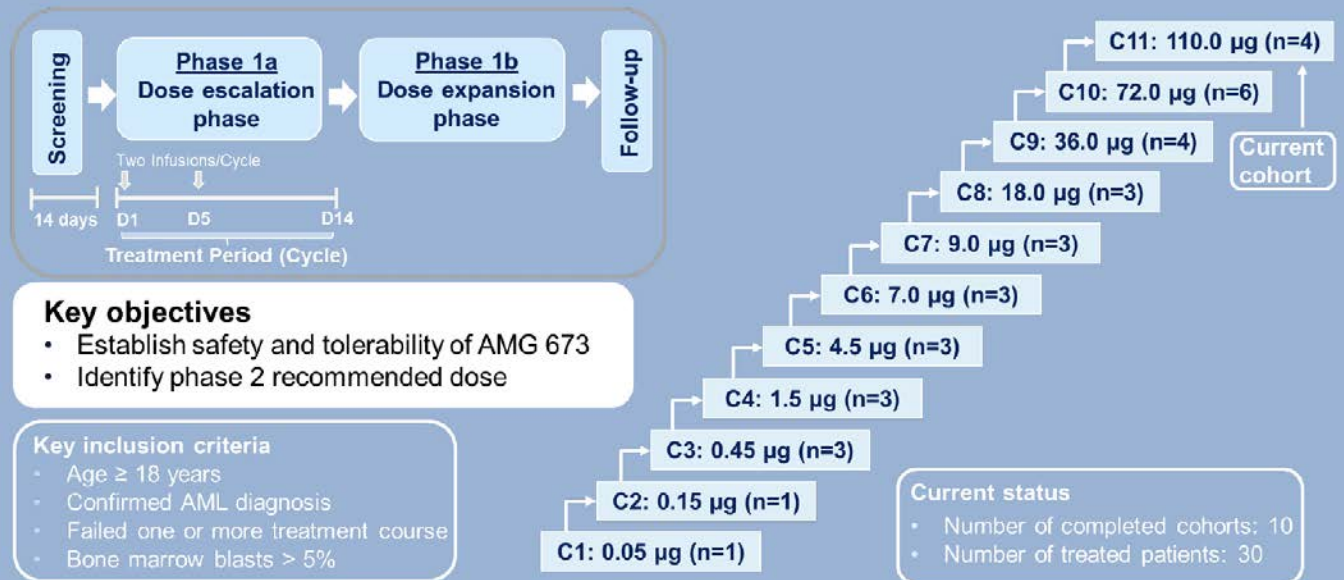
AMG 673 (Bispezifischer Anti-CD33/CD3 BiTE®)

833: Preliminary Results from a Phase 1 First-in-Human Study of AMG 673, a Novel Half-Life Extended (HLE) Anti-CD33/CD3 BiTE® (Bispecific T-Cell Engager) in Patients with Relapsed/Refractory (R/R) Acute Myeloid Leukemia (AML)

Marion Subklewe *et al.*, München, Deutschland.



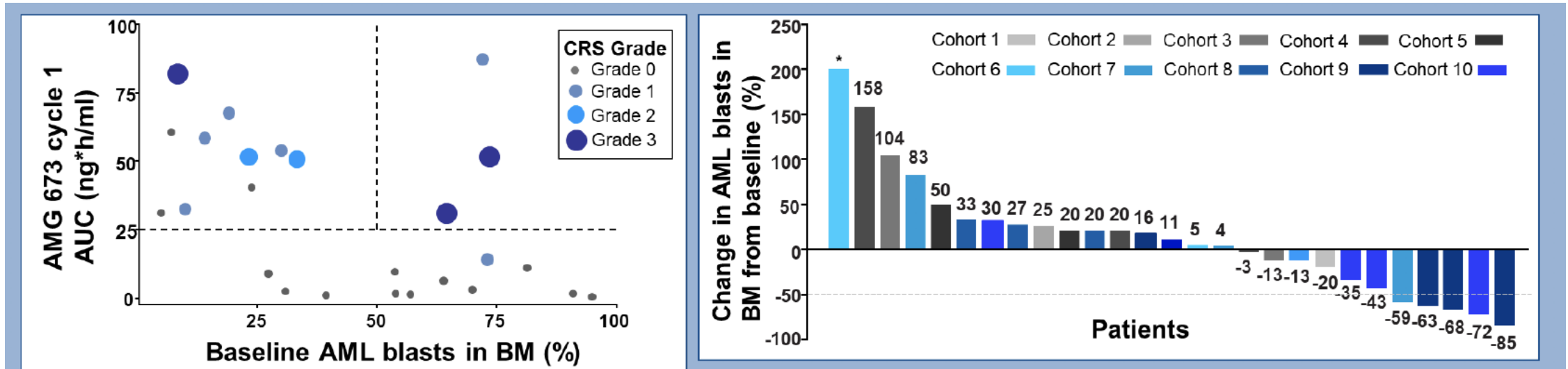
Phase I: Dosisfindung (30 Patienten)



AML, acute myeloid leukemia; C, cohort; D, day; n, number of patients; ClinicalTrials.gov Identifier: NCT03224819



AMG 673 (Bispezifischer Anti-CD33/CD3 BiTE®)



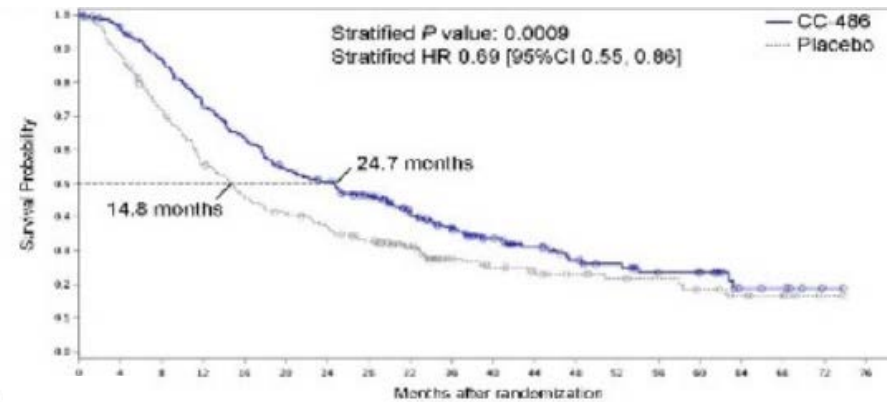
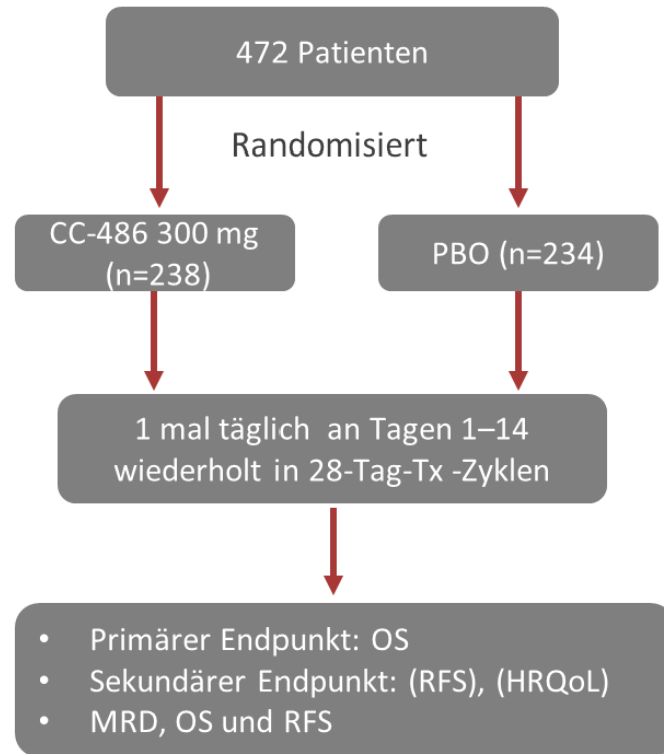
- Auftreten und Schwere eines CRS Korreliert mit AK Dosis und Blastenzahl
- Erst Wirksamkeitsdaten
- Dosisexpansionsphase läuft



Erhaltungstherapie mit oralem Azacitidin

LBA-3: The QUAZAR AML-001 Maintenance Trial: Results of a Phase III International, Randomized, Double-Blind, Placebo-Controlled Study of CC-486 (Oral Formulation of Azacitidine) in Patients with Acute Myeloid Leukemia (AML) in First Remission.

Andrew H. Wie *et al.*



	CC-486
De Novo AML	91%
CR	81%
CRi	19%
(CC-486 vs. PBO) OS	24.7* Monate vs 14.8 Monate
(CC-486 vs. PBO) RFS	10,2** Monate vs 4,8 Monate

*P=0.0009

**P=0.0001



**Vielen Dank für Ihre
Aufmerksamkeit!**

PD Dr. med. Juliane S. Walz
juliane.walz@med.uni-tuebingen.de



Manatees at Blue Spring State Park, Florida



**Universitätsklinikum
Tübingen**