

Revumenib + Intensive Chemotherapy for Newly Diagnosed Acute Myeloid Leukemia Harboring Genetic Alterations in *KMT2A*, *NPM1*, or *NUP98*: Updated Phase 1 Results From SNDX-5613-0708

Ibrahim Aldoss,¹ Carl T. Shultz,² Brad Hunter,³ David M. Swoboda,⁴ Pau Montesinos,⁵ Sarit E. Assouline,⁶ Shaun Fleming,⁷ Carolyn S. Grove,⁸ Andre C. Schuh,⁹ David C. Taussig,¹⁰ Karla Malloy,¹¹ Enoch Cobbina,¹¹ Jingshan Zhang,¹¹ Jessica Clement,¹¹ Eytan M. Stein,¹² John F. DiPersio¹³

¹City of Hope National Medical Center, Duarte, CA, USA; ²Transplant and Cellular Therapy/Hematologic Malignancies, Department of Medical Oncology, West Virginia University, Morgantown, WV, USA; ³Intermountain Health, Salt Lake City, UT, USA; ⁴Tampa General Hospital Cancer Institute, Tampa, FL, USA; ⁵Hospital Universitari i Politècnic La Fe, Valencia, Spain;

⁶Division of Hematology, Department of Oncology, McGill University, Montréal, QC, Canada; ⁷The Alfred Hospital, Melbourne, VIC, Australia; ⁸Sir Charles Gairdner Hospital, PathWest, and The University of Western Australia, Perth, WA, Australia; ⁹Princess Margaret Cancer Centre and University of Toronto, Toronto, ON, Canada; ¹⁰The Royal Marsden NHS Foundation Trust, The Institute of Cancer Research, London, UK; ¹¹Syndax Pharmaceuticals, Inc., New York, NY, USA; ¹²Memorial Sloan Kettering Cancer Center, New York, NY, USA; ¹³Washington University School of Medicine, Washington University in St Louis, St Louis, MO, USA.

INTRODUCTION

- Acute leukemias (AL) harboring *KMT2A* or *NUP98* rearrangements (*KMT2Ar* or *NUP98r*) are associated with poor clinical outcomes,^{1,2} and adults with newly diagnosed *NPM1*-mutated (*NPM1m*) acute myeloid leukemia (AML) that lacks a concurrent *FLT3* mutation relapse in ~50% of cases.³⁻⁴
 - High relapse rates, persistent measurable residual disease (MRD), and short overall survival remain challenges in AL harboring these genetic alterations.^{1,2,5-7}
- These genetic alterations promote leukemogenesis by sustaining the menin-*KMT2A* interaction, which blocks hematopoietic differentiation.⁸
- Revumenib, a first-in-class, oral, potent, and selective inhibitor of the menin-*KMT2A* interaction, is used for the treatment of relapsed/refractory (R/R) AML harboring an *NPM1* mutation or R/R AL with a *KMT2A* translocation in adult and pediatric patients 1 year and older.^{9,10}
- Adding revumenib to intensive chemotherapy (IC) may further decrease leukemic cell proliferation and enhance differentiation, improving overall response to treatment

OBJECTIVE

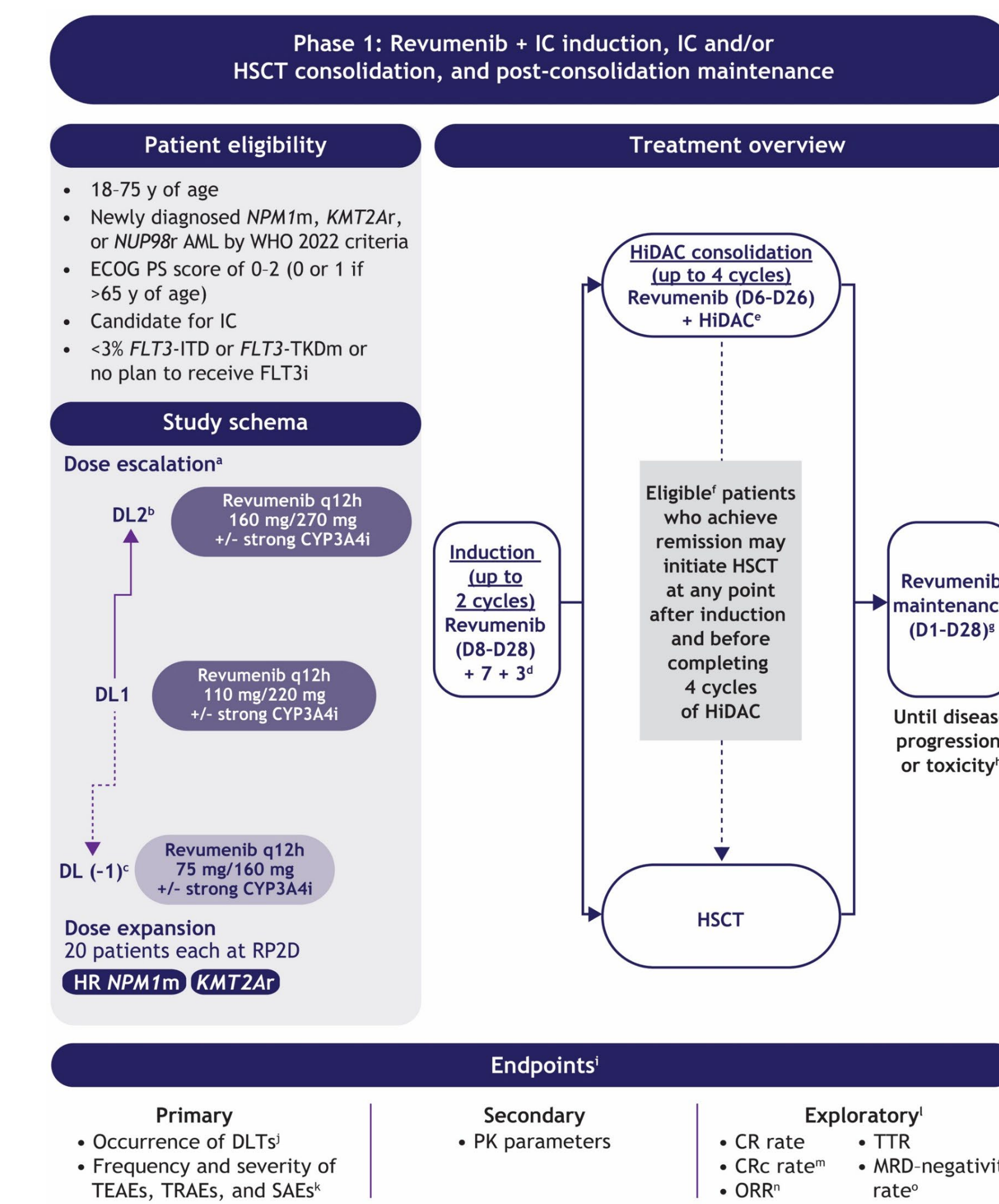
- To report updated findings from the dose level (DL) 1 and DL2 cohorts of the dose-escalation portion of an ongoing phase 1 study of revumenib + IC in newly diagnosed AML with an *NPM1* mutation, *KMT2A* rearrangement, or *NUP98* rearrangement

METHODS

Study design

- SNDX-5613-0708 (NCT06226571) is a multicenter, open-label, nonrandomized, dose-escalation and -expansion study of revumenib + IC (Figure 1)
 - The safety population included all patients who received ≥1 dose of revumenib, and patients in the response-evaluable population received ≥1 dose of revumenib and had ≥1 post-baseline response assessment

Figure 1. Study design



*Study uses a "rounding up" design with a backfill or approximately 6 patients at tolerated doses for a total or 12 evaluable patients per DL. Alternate dosing schedules (eg, 14 days) may be explored. *Highest dose not to exceed the RP2D from AUGMENT-101. *For dose de-escalation only, *5 + 2 schedule used in Cycle 2. Chemotherapy doses: cytarabine 100-200 mg/m², idarubicin 12 mg/m², or daunorubicin 60 mg/m². *Chemotherapy doses: cytarabine 1.5 g/m² (<60 years of age; Days 1, 3, and 5) or 3.0 g/m² (>60 years of age; Days 1-3 or 1, 3, and 5). *Patient must have achieved CR or CRi. *Patient must have achieved CR or CRi after ≥3 cycles. *Treatment can continue for up to 2 years. Relevant to the current analysis. *DLTs were predefined in the protocol and assessed by investigator per NCI Common Terminology Criteria for Adverse Events v5.0; all were reviewed and confirmed by the safety review committee. *AEs (differentiation syndrome, grade ≥2 QTcF prolongation, and potential Hy's Law cases) will also be assessed, though not as a per-protocol primary endpoint. *For response and MRD assessments, bone marrow aspirate was collected following evidence of progressive disease in peripheral blood. *CR = CR + CRi. *ORR = CR + CRi. *MRD = CR + CRi. *Assessed locally. AEs, adverse event of special interest; CR, complete remission; CRi, complete remission with incomplete hematologic recovery; CYP3A4i, cytochrome P450 3A4 inhibitor; D, Day; DL, dose level; DLT, dose-limiting toxicity; ECOG PS, Eastern Cooperative Oncology Group performance status; FLT3i, FLT3 inhibitor; HIDAC, high-dose cytarabine; HR, high-risk; IC, intensive chemotherapy; ITD, internal tandem duplication; MLFS, morphologic leukemia-free state; MRD, measurable residual disease; NCI, National Cancer Institute; ORR, overall response rate; PK, pharmacokinetic; q12h, every 12 hours; RP2D, recommended phase 2 dose; SAE, serious adverse event; TAE, treatment-emergent adverse event; TKDm, tyrosine kinase domain mutation; TRAE, treatment-related adverse event; TTR, time to response; WHO, World Health Organization.

RESULTS

Patients

- As of 30 November 2025, 15 patients were dosed at DL1 and 20 were dosed at DL2
- Patients in DL1 were younger than those in DL2 (median age, 43.0 and 57.5 years, respectively; Table 1), with a better baseline Eastern Cooperative Oncology Group performance status score (0: 53% vs 40%; 1-2: 47% vs 60%)
- More patients had a *KMT2Ar* in DL1 than in DL2 (87% vs 40%); patients with *NUP98r* were eligible; however, none had enrolled at the time of analysis
- During induction, patients received either cytarabine 100 or 200 mg/m²

Table 1. Demographic and baseline characteristics

	DL1 (n = 15)	DL2 (n = 20)	Total (N = 35)
Age, median (range), y	43.0 (20.0-73.0)	57.5 (19.0-68.0)	50.0 (19.0-73.0)
Female, n (%)	10 (67)	16 (80)	26 (74)
Race, n (%)			
White	10 (67)	17 (85)	27 (77)
Black or African American	1 (7)	0	1 (3)
Asian	2 (13)	1 (5)	3 (9)
Not reported	2 (13)	1 (5)	3 (9)
Other	0	1 (5)	1 (3)
Ethnicity, not Hispanic, n (%)	11 (73)	19 (95)	30 (86)
ECOG PS score, n (%)			
0	8 (53)	8 (40)	16 (46)
1	4 (27)	12 (60)	16 (46)
2	3 (20)	0	3 (9)
Genetic aberration, n (%)			
<i>NPM1m</i>	2 (13)	12 (60)	14 (40)
<i>KMT2Ar</i>	13 (87)	8 (40)	21 (60)
<i>NUP98r</i>	0	0	0
Co-occurring mutations, n (%)			
<i>FLT3</i> -ITD (allelic ratio of <3% <i>FLT3</i> -ITD/total <i>FLT3</i>)	0	3 (15)	3 (9)
<i>FLT3</i> -TKDm (no plan for <i>FLT3</i> -targeted therapy)	1 (7)	0	1 (3)

DL, dose level; ECOG PS, Eastern Cooperative Oncology Group performance status; ITD, internal tandem duplication; TKDm, tyrosine kinase domain mutation.

Safety

- As of 30 November 2025, 14/15 patients dosed at DL1 and 14/20 dosed at DL2 were evaluable for dose-limiting toxicities (DLTs) per protocol criteria (received ≥75% of planned dosing or experienced a DLT, assessed from first revumenib dose [Cycle 1 Day 8] through Day 42 of last induction cycle or start of consolidation, whichever occurred first)
 - One DLT of grade 3 QTcF prolongation was reported in DL1
 - This patient discontinued revumenib during Cycle 1; at the end of Cycle 1, the patient had achieved MRD-negative complete remission (CR) and proceeded to hematopoietic stem cell transplant (HSCT)
- Rate of patients who experienced a treatment-emergent adverse event (TAE) of QTcF prolongation was similar across both DLs (Table 2) and manageable per protocol guidance, with a median (range) time to initial onset of 3.0 days (1.0-38.0) for DL1 and 21.0 days (8.0-58.0) for DL2
 - Median (range) duration was similar between DLs (1.0 day [1.0-8.0] for DL1 and 1.5 days [1.0-3.0] for DL2)
- Rate of patients who experienced differentiation syndrome was low (5%, 1 patient in DL2; grade 3)
 - Initial onset occurred on Day 5 (duration, 2 days)
 - Case was manageable with steroid treatment per protocol guidance
- No cases of Hy's law were reported
- One TAE leading to death was reported (DL2; intracranial hemorrhage) and deemed not related to revumenib

Table 2. Summary of TAEs (≥25% any grade, ≥15% grade ≥3) and TRAEs (≥15% any grade, ≥10% grade ≥3) in the total population

Parameter, n (%)	DL1 (n = 15)		DL2 (n = 20)		Total (N = 35)	
	Any grade	Grade ≥3	Any grade	Grade ≥3	Any grade	Grade ≥3
Any TAE	14 (93)	13 (87)	20 (100)	19 (95)	34 (97)	32 (91)
Thrombocytopenia/platelet count decreased ^a	8 (53)	7 (47)	13 (65)	13 (65)	21 (60)	20 (57)
Febrile neutropenia	8 (53)	8 (53)	13 (65)	11 (55)	21 (60)	19 (54)
Diarrhea	6 (40)	0	13 (65)	1 (5)	19 (54)	1 (3)
Neutropenia/neutrophil count decreased ^a	8 (53)	7 (47)	9 (45)	9 (45)	17 (49)	16 (46)
Nausea	6 (40)	0	7 (35)	0	13 (37)	0
Anemia	4 (27)	4 (27)	7 (35)	7 (35)	11 (31)	11 (31)
Hypokalemia	3 (20)	0	8 (40)	4 (20)	11 (31)	4 (11)
Vomiting	4 (27)	1 (7)	6 (30)	0	10 (29)	1 (3)
Hypophosphatemia	4 (27)	0	5 (25)	0	9 (26)	0
White blood cell count decreased	4 (27)	4 (27)	4 (20)	4 (20)	8 (23)	8 (23)
Revumenib-related TAEs	10 (67)	5 (33)	13 (65)	12 (60)	23 (66)	17 (49)
Anemia	3 (20)	3 (20)	3 (15)	3 (15)	6 (17)	6 (17)
Thrombocytopenia	2 (13)	1 (7)	3 (15)	3 (15)	5 (14)	4 (11)
Platelet count decreased	2 (13)	2 (13)	2 (10)	1 (5)	4 (11)	3 (9)
Neutropenia	1 (7)	1 (7)	3 (15)	2 (10)	4 (11)	3 (9)
Neutrophil count decreased	4 (27)	3 (20)	2 (10)	2 (10)	6 (17)	5 (14)
QTcF prolongation ^b	3 (20)	1 (7)	5 (25)	2 (10)	8 (23)	3 (9)
Serious TAEs ^c		7 (47)		10 (50)		17 (49)
Febrile neutropenia		3 (20)		2 (10)		5 (14)
Sepsis		1 (7)		2 (10)		3 (9)
Gastroenteritis viral		1 (7)		1 (5)		2 (6)
Pneumonia		2 (13)		0		2 (6)
TAEs of special interest		3 (20)		5 (25)		8 (23)
QTcF prolongation ^d		2 (13)		4 (20)		6 (17)
Differentiation syndrome		0		1 (5)		1 (3)
Alanine aminotransferase increased		1 (7)		0		1 (3)
TAEs leading to dose modifications						
Interruption		7 (47)		12 (60)		19 (54)
Reduction		2 (13)		0		2 (6)
TAEs leading to discontinuation ^e		3 (20)		1 (5)		4 (11)
TAEs leading to death ^f		0		1 (5)		1 (3)

^aCombined term. ^bIn DL1, events were grade 1, grade 2, and grade 3 (n = 1 each); in DL2, events were grade 1 (n = 3) and grade 3 (n = 2). ^cAny serious TAE reported by ≥2 patients from the total population. ^dClassified as grade ≥2 based on average of triplicate electrocardiograms. ^eDue to QTcF prolongation, neutropenia/neutrophil count decreased, and pneumonitis (n = 1 each) in DL1 and intracranial hemorrhage (n = 1) in DL2. ^fDue to intracranial hemorrhage (n = 1) in DL2; deemed not related to revumenib. DL, dose level; TAE, treatment-emergent adverse event; TRAE, treatment-related adverse event.

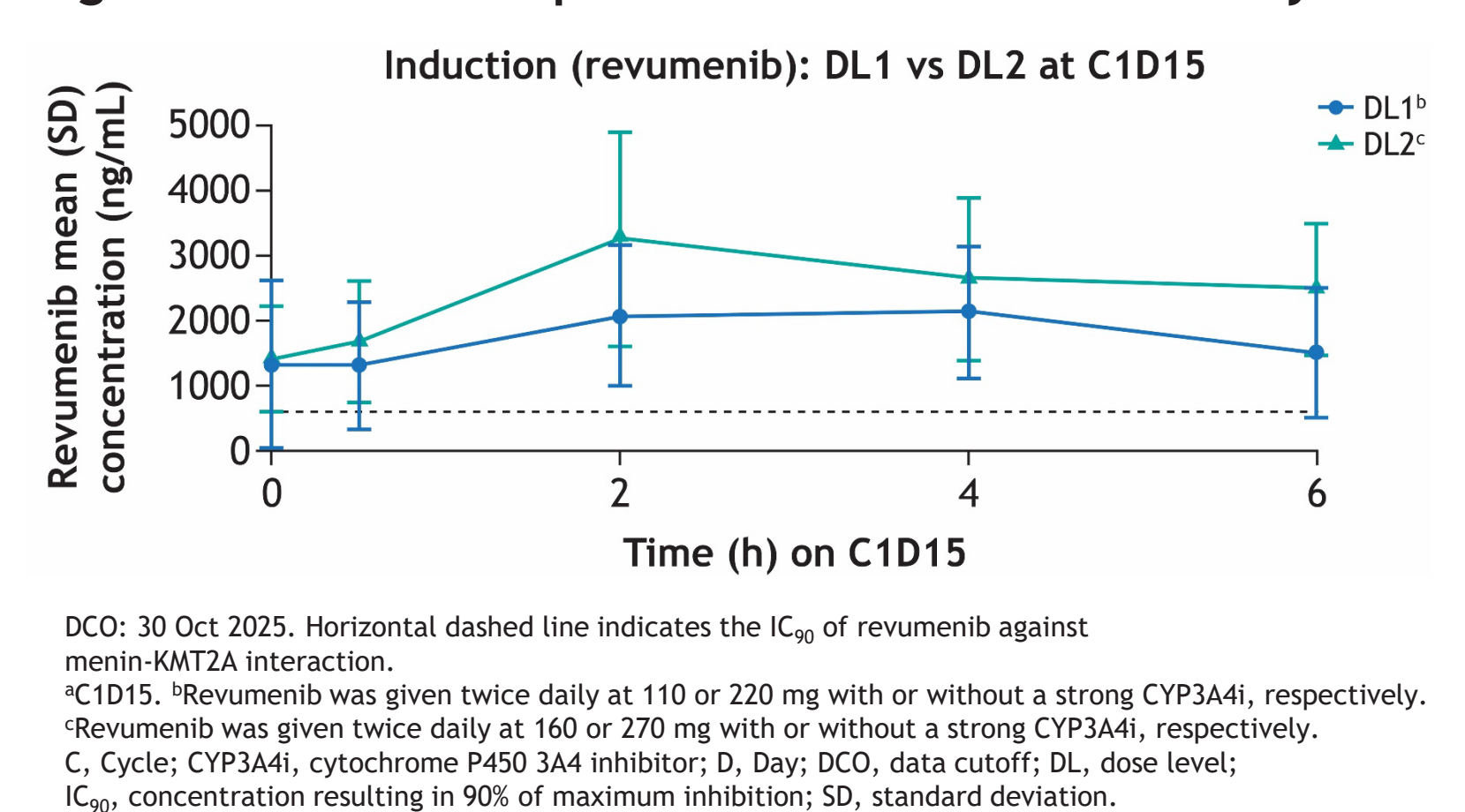
Dosing

- Median (range) duration of follow-up was 4.8 months (1.5-16.0) in DL1 and 2.9 months (0.7-6.2) in DL2 as of 30 November 2025
- Median (range) number of revumenib cycles received was 3 (1-8) in DL1 and 2 (1-5) in DL2 as of data cutoff
- Median (range) relative dose intensity was 89.3% (56.3-104.8) in DL1 and 92.5% (19.1-160.7) in DL2

Pharmacokinetics

- As of 30 October 2025, dose-exposure proportionality between DL1 and DL2 was demonstrated (Figure 2; Table 3)
- Pharmacokinetic profiles in this study are consistent with those in the monotherapy study,¹¹ indicating that the IC agents used in this study (daunorubicin and cytarabine) have no clinically relevant impact on exposure to revumenib and its primary metabolite, M1
- Drug concentrations exceeded the concentration resulting in the IC₅₀ threshold at both DL1 and DL2, indicating potential for effective antileukemic activity through sustained menin inhibition

Figure 2. Revumenib plasma concentration at steady state^a



DCO: 30 Oct 2025. Horizontal dashed line indicates the IC₅₀ of revumenib against menin-KMT2A interaction. ^aC1D15: Revumenib was given twice daily at 110 or 220 mg with or without a strong CYP3A4i, respectively. ^bRevumenib was given twice daily at 160 or 270 mg with or without a strong CYP3A4i, respectively. ^cRevumenib was given twice daily at 160 or 270 mg with or without a strong CYP3A4i, respectively. ^dCycles: CYP3A4i, cytochrome P450 3A4 inhibitor; D, Day; DCO, data cutoff; DL, dose level; IC₅₀, concentration resulting in 50% of maximum inhibition; SD, standard deviation.

Table 3. Summary of steady-state^a PK parameters of plasma revumenib

Parameter, GM (% GCV)	DL1 ^b (n = 8)	DL2 ^c (n = 13)
C _{max} , ng/mL	2710 (31)	3250 (46)
C _{avg} , ng/mL	1690 (55)	2410 (45)
AUC, ng·h/mL	10,100 (55)	14,400 (45)

DCO: 30 Oct 2025. ^aC1D15: Revumenib was given twice daily at 110 or 220 mg with or without a strong CYP3A4i, respectively. ^bRevumenib was given twice daily at 160 or 270 mg with or without a strong CYP3A4i, respectively. ^cRevumenib was given twice daily at 160 or 270 mg with or without a strong CYP3A4i, respectively. ^dCycles: CYP3A4i, cytochrome P450 3A4 inhibitor; D, Day; DCO, data cutoff; DL, dose level; GCV, geometric coefficient of variation; GM, geometric mean; PK, pharmacokinetic.

Efficacy

- Among those in the response-evaluable population, overall response rate, composite CR (CRc) rate, and CR rate were high and similar across both DLs (Table 4)
- In patients with CRc and MRD results available, 10/12 (83.3%) patients in DL1 and 15/17 (88.2%) in DL2 achieved MRD-negative CRc by local assessment
- In patients with CR and MRD results available, all (9/9) patients in DL1 and 11/14 (78.6%) in DL2 achieved MRD-negative CR by local assessment
- As of 30 November 2025, 9/15 (60%) patients in DL1 and 2/20 (10%) in DL2 had proceeded to HSCT; this difference may be due to a higher proportion of patients with *KMT2Ar* in DL1 and shorter follow-up in DL2
 - All patients in DL1 and DL2 who proceeded to HSCT had *KMT2Ar* AML; of these, 6/9 (66.7%) patients in DL1 resumed revumenib maintenance monotherapy following HSCT at the last tolerated dose and 3/6 (50.0%) were continuing treatment as of the data cutoff
- One patient in DL2 received post-consolidation maintenance therapy without undergoing HSCT
- Time to neutrophil and platelet count recovery was comparable across DLs and consistent with time to count recovery with IC alone,^{12,13} suggesting that revumenib did not adversely affect recovery (Table 5)
- Treatment is ongoing in most patients (10/15 [66.7%] in DL1 and 17/20 [85.0%] in DL2) irrespective of their *NPM1m* or *KMT2Ar* genetic aberration (Figure 3)

Table 4. Efficacy^a

Parameter	DL1 (n = 15)	DL2 (n = 20)	Total (N = 35)
ORR, ^b n (%)	15 (100)	19 (95.0)	34 (97.1)
95% CI	78.2-100.0	75.1-99.9	85.1-99.9
CRc rate, ^c n (%)	15 (100)	19 (95.0)	34 (97.1)
95% CI	78.2-100.0	75.1-99.9	85.1-99.9
CR rate, n (%)	12 (80.0)	15 (75.0)	27 (77.1)
95% CI	51.9-95.7	50.9-91.3	59.9-89.6
Time to CR, median (range), d	21.0 (18.0-35.0)	26.0 (18.0-77.0)	23.0 (18.0-70.0)
MRD-negative status, ^{d,e} n/N (%)			
CRc	10/12 (83.3)	15/17 (88.2)	25/29 (86.2)
CR	9/9 (100)	11/14 (78.6)	20/23 (87.0)
Time to MRD-negative status, median (range), d			
CRc	31.0 (28.0-65.0)	46.0 (28.0-77.0)	33.0 (28.0-77.0)
CR	31.0 (28.0-65.0)	34.0 (28.0-77.0)	31.5 (28.0-77.0)

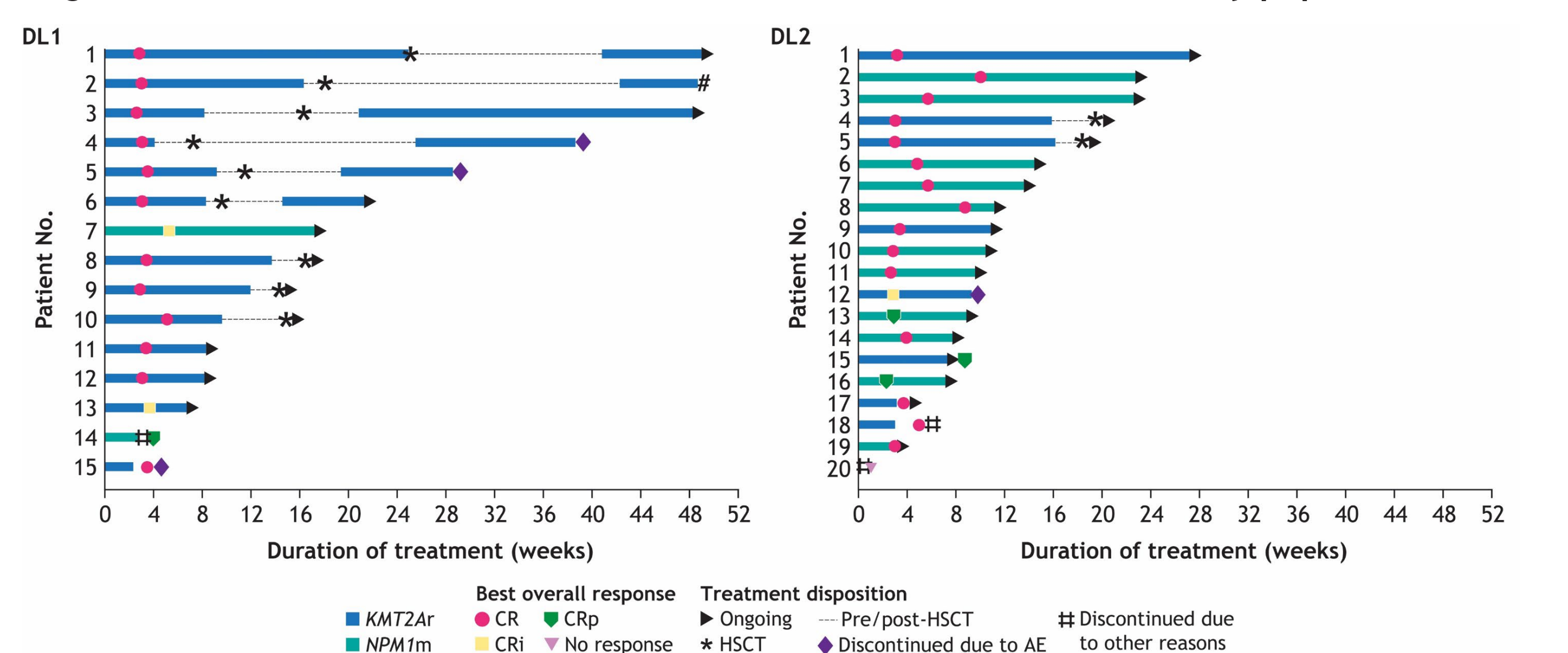
^aAmong the response-evaluable population. ^bORR = CRc + MLFS. ^cCRc = CR + CRi. ^dFor patients who had available MRD-negativity results in the response-evaluable population. ^eMRD-negative status determined locally: DL1 (flow cytometry; n = 10; PCR; n = 1; NGS; n = 1); DL2 (flow cytometry; n = 13; PCR; n = 3; other; n = 1). CR, complete remission; CRc, composite CR; CRi, CR with incomplete hematologic recovery; CRp, CR with incomplete platelet recovery; DL, dose level; MLFS, morphologic leukemia-free state; MRD, measurable residual disease; NGS, next-generation sequencing; ORR, overall response rate.

Table 5. Neutrophil and platelet recovery among CRc responders during induction Cycle 1

	DL1 (n = 15)	DL2 (n = 19)	Total (N = 34)
Neutrophil recovery (≥1000 cells/μL), ^a n (%)	13 (86.7)	15 (78.9)	28 (82.4)
Time to count recovery, median (range), d	29.0 (8.0-42.0)	29.0 (22.0-55.0)	29.0 (8.0-55.0)
Platelet recovery (≥100,000 cells/μL), ^a n (%)	13 (86.7)	17 (89.5)	30 (88.2)
Time to count recovery, median (range), d	28.0 (22.0-43.0)	29.0 (22.0-47.0)	29.0 (22.0-47.0)

^aFrom induction Cycle 1 Day 1. CRc, composite complete remission; DL, dose level.

Figure 3. Duration of treatment in *NPM1m* and *KMT2Ar* AML in the safety population



CONCLUSIONS

- These updated preliminary efficacy data as of 30 November 2025 build upon findings showing deep responses across both DLs, with high MRD-negative CR rates
- Revumenib + IC continued to demonstrate a manageable safety profile that was broadly consistent across both DLs and comparable with IC alone¹²
- No new safety signals were detected for revumenib + IC, and no overlapping toxicity with combination use was observed
- Time to neutrophil and platelet recovery was comparable to that of IC alone^{13,14}
- Overall, these safety and efficacy findings are consistent in patients with *KMT2Ar* and *NPM1m* AML and support continued evaluation of revumenib + IC at DL2 in the phase 3 REVEAL-ND trial (NCT07211958)

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