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## Ziftomenib in Combination with Venetoclax and Azacitidine in Relapsed/Refractory *NPM1*-m or *KMT2A*-r Acute Myeloid Leukemia: Updated Phase 1a/b Safety and Clinical Activity Results from KOMET-007

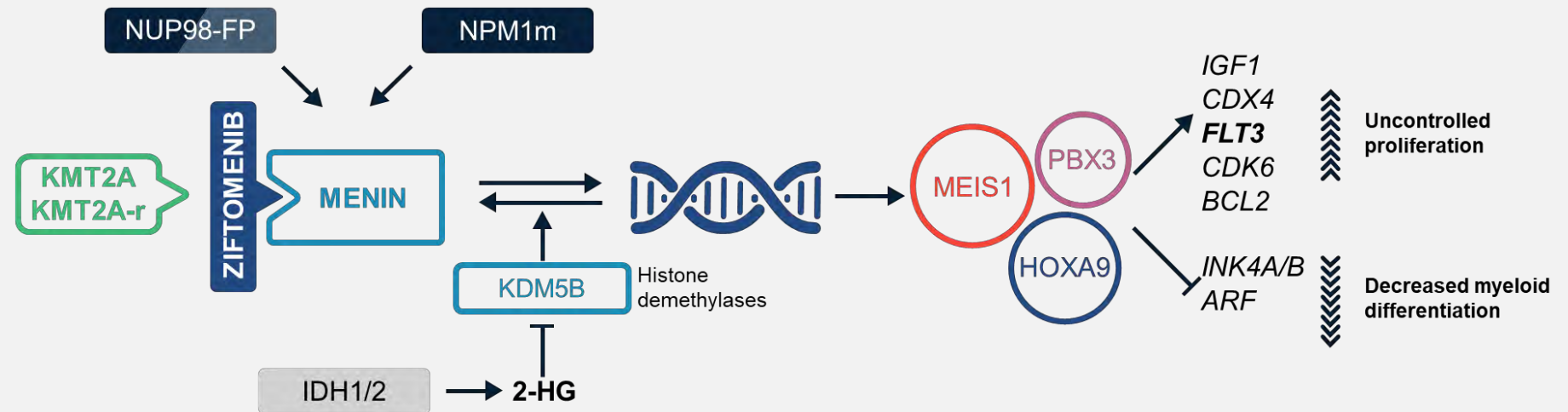
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# Ziftomenib Targets the Menin Pathway, a Foundational Target in AML

- Leukemogenesis is driven by *NPM1* mutations or *KMT2A* rearrangements in ~35–40% of AML cases<sup>1,2</sup>
- Nearly half of AML patients will develop relapsed/refractory (R/R) disease within a year, with a <20% expected response rate following venetoclax/azacitidine (Ven/Aza) and progressively poorer outcomes with each subsequent line of therapy<sup>3–6</sup>
- Ziftomenib** is a potent, highly selective, oral menin inhibitor with clinical activity as both monotherapy and in combination for adults with R/R *NPM1*-m or *KMT2A*-r AML<sup>7,8</sup>
- Ziftomenib monotherapy was approved for R/R *NPM1*-m AML by the [US FDA](#) on November 13, 2025

## Ziftomenib Mechanism of Action<sup>9–18</sup>

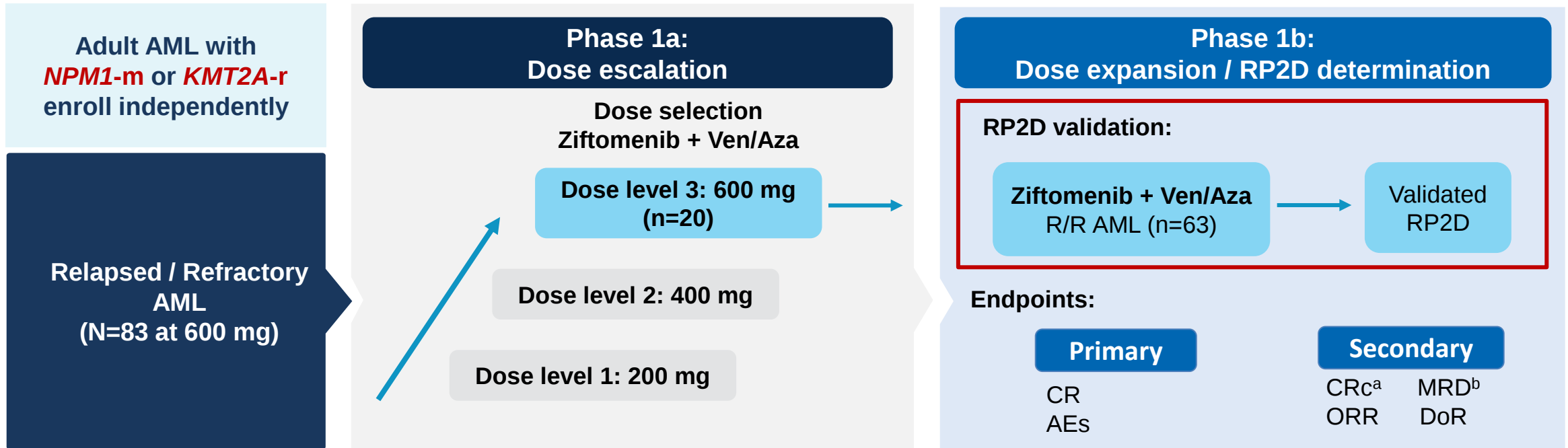


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AML, acute myeloid leukemia, US FDA, U.S. Food and Drug Administration

# KOMET-007: Ongoing Phase 1 Combination Trial of Ziftomenib in R/R AML

## Ziftomenib + Ven/Aza Combination ([NCT05735184](#))

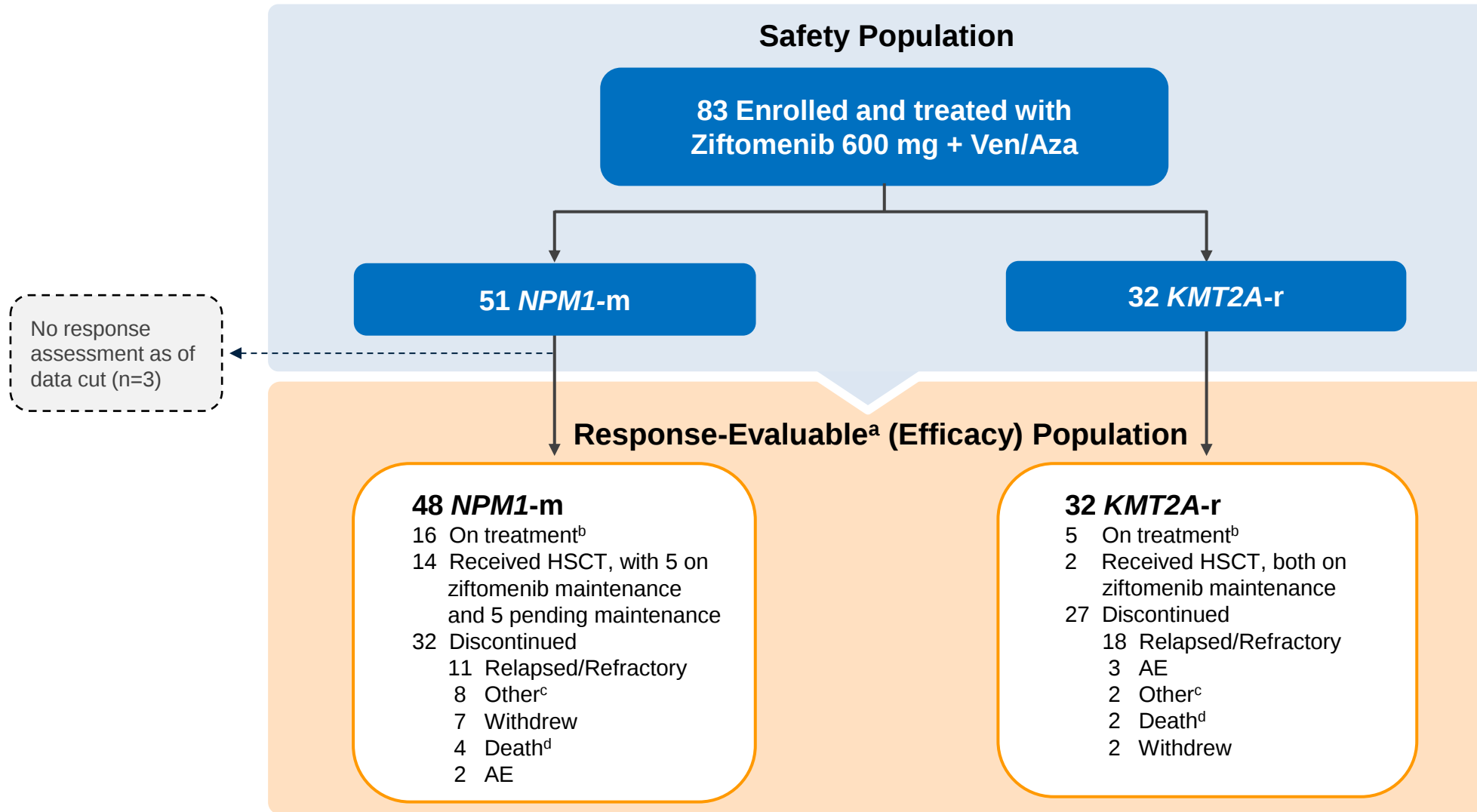


- Ziftomenib dosing started on Cycle 1 Day 8 and was administered continuously thereafter; Ven was administered per label in 28-day cycles; adjustments to cycle length based on Cycle 1 bone marrow biopsy results. Aza was administered on Cycle 1 Days 1–7; additional cycles based on bone marrow biopsy results
- Here, we present updated safety and clinical activity in 83 patients with R/R AML treated with ziftomenib 600 mg once daily in combination with Ven/Aza

<sup>a</sup>CR with full, partial, or incomplete hematologic recovery. <sup>b</sup>Locally assessed by next-generation sequencing, RT-qPCR, and multiparameter flow cytometry

AE, adverse event; CR, complete remission; CRc, composite complete remission; DoR, duration of response; MRD, measurable residual disease; ORR, overall response rate; RP2D, recommended phase 2 dose

# KOMET-007: Safety and Efficacy Populations: R/R AML



<sup>a</sup>Patients who had ≥1 response assessment or who had died. <sup>b</sup>Patients who had not discontinued ziftomenib as of the data cutoff date. <sup>c</sup>Other reasons included: *NPM1-m*: physician decision (n=2), completed planned therapy (n=1), CNS disease (n=1), patient started another clinical trial (n=1), patient decision (n=3); *KMT2A-r*: patient deemed too ill to continue (n=1), physician decision (n=1). <sup>d</sup>Deaths included: *NPM1-m*: graft-vs-host disease (n=1), multiorgan failure (n=1), sepsis (n=1), respiratory failure (n=1); *KMT2A-r*: cardiac arrest (n=1), septic shock (n=1)

Data cutoff: Sep 24, 2025. CNS, central nervous system; HSCT, hematopoietic stem cell transplant

# Baseline Characteristics and Disposition: R/R AML

| n (%)                                  | <i>NPM1</i> -m, 600 mg<br>(N=51) | <i>KMT2A</i> -r, 600 mg<br>(N=32) | All Patients, 600 mg<br>(N=83) |
|----------------------------------------|----------------------------------|-----------------------------------|--------------------------------|
| <b>Median age, years (range)</b>       | 65 (25–85)                       | 56 (19–76)                        | 62 (19–85)                     |
| <b>Female</b>                          | 23 (45)                          | 17 (53)                           | 40 (48)                        |
| <b>Race</b>                            |                                  |                                   |                                |
| White                                  | 37 (73)                          | 22 (69)                           | 59 (71)                        |
| Black / African American               | 5 (10)                           | 2 (6)                             | 7 (8)                          |
| Other / Non-White / Unknown            | 9 (18)                           | 8 (25)                            | 17 (20)                        |
| <b>ECOG PS</b>                         |                                  |                                   |                                |
| 0                                      | 13 (26)                          | 7 (22)                            | 20 (24)                        |
| 1                                      | 24 (47)                          | 18 (56)                           | 42 (51)                        |
| 2                                      | 14 (28)                          | 7 (22)                            | 21 (25)                        |
| <b>Selected co-mutations</b>           |                                  |                                   |                                |
| <i>FLT3</i>                            | 21 (41)                          | 3 (9)                             | 24 (29)                        |
| <i>IDH1/2</i>                          | 7 (14)                           | 0                                 | 7 (8)                          |
| Both <i>FLT3</i> and <i>IDH1/2</i>     | 2 (2)                            | 0                                 | 2 (2)                          |
| <b>Median prior therapies (range)</b>  | 1 (1–4)                          | 1 (1–4)                           | 1 (1–4)                        |
| Prior HSCT                             | 10 (20)                          | 6 (19)                            | 16 (19)                        |
| Prior venetoclax                       | 26 (51)                          | 22 (69)                           | 48 (58)                        |
| Prior menin inhibitors                 | 1 (2)                            | 7 (22)                            | 8 (10)                         |
| <b>Patients on treatment</b>           | 16 (31)                          | 5 (16)                            | 21 (25)                        |
| <b>Median follow-up, weeks (range)</b> | 26.3 (3.3–69.1)                  | 16.9 (2.4–65.4)                   | 24.6 (2.4–69.1)                |

# Safety and Tolerability of Ziftomenib with Ven/Aza: R/R AML

## TEAEs in ≥25% of All Patients

| n (%)                         | All TEAEs                        |                                   |                                | Ziftomenib-Related TEAEs       |
|-------------------------------|----------------------------------|-----------------------------------|--------------------------------|--------------------------------|
|                               | <i>NPM1</i> -m, 600 mg<br>(N=51) | <i>KMT2A</i> -r, 600 mg<br>(N=32) | All Patients, 600 mg<br>(N=83) | All Patients, 600 mg<br>(N=83) |
| Any grade                     | 49 (96)                          | 32 (100)                          | 81 (98)                        | 48 (58)                        |
| Nausea                        | 19 (37)                          | 15 (47)                           | 34 (41)                        | 13 (16)                        |
| Fatigue                       | 25 (49)                          | 6 (19)                            | 31 (37)                        | 12 (15)                        |
| Thrombocytopenia <sup>a</sup> | 16 (31)                          | 14 (44)                           | 30 (36)                        | 8 (10)                         |
| Febrile neutropenia           | 14 (28)                          | 13 (41)                           | 27 (33)                        | 8 (10)                         |
| Diarrhea                      | 17(33)                           | 9 (28)                            | 26 (31)                        | 3 (4)                          |
| Leukopenia <sup>b</sup>       | 18 (35)                          | 8 (25)                            | 26 (31)                        | 7 (8)                          |
| Neutropenia <sup>c</sup>      | 14 (28)                          | 12 (38)                           | 26 (31)                        | 8 (10)                         |
| Vomiting                      | 14 (28)                          | 11 (34)                           | 25 (30)                        | 9 (11)                         |
| Anemia                        | 11 (22)                          | 13 (41)                           | 24 (29)                        | 8 (10)                         |
| Constipation                  | 16 (31)                          | 7 (22)                            | 23 (28)                        | 4 (5)                          |
| Pruritus                      | 17 (33)                          | 6 (19)                            | 23 (28)                        | 12 (15)                        |
| Decreased appetite            | 14 (28)                          | 7 (22)                            | 21 (25)                        | 6 (7)                          |
| Hypokalemia                   | 10 (20)                          | 11 (34)                           | 21 (25)                        | 0                              |

<sup>a</sup>Includes platelet count decreased and thrombocytopenia. <sup>b</sup>Includes white blood cell count decreased and leukopenia. <sup>c</sup>Includes neutrophil count decreased and neutropenia

Data cutoff: Sep 24, 2025. TEAE, treatment-emergent adverse event

# Safety and Tolerability of Ziftomenib with Ven/Aza: R/R AML

## Grade ≥3 TEAEs in ≥10% of All Patients

| n (%)                         | All Grade ≥3 TEAEs            |                                |                             | Grade ≥3 Ziftomenib-Related TEAEs |
|-------------------------------|-------------------------------|--------------------------------|-----------------------------|-----------------------------------|
|                               | <i>NPM1</i> -m, 600 mg (N=51) | <i>KMT2A</i> -r, 600 mg (N=32) | All Patients, 600 mg (N=83) | All Patients, 600 mg (N=83)       |
| Grade ≥3                      | 46 (90)                       | 30 (94)                        | 76 (92)                     | 33 (40)                           |
| Thrombocytopenia <sup>a</sup> | 15 (29)                       | 13 (41)                        | 28 (34)                     | 7 (8)                             |
| Febrile neutropenia           | 14 (28)                       | 12 (38)                        | 26 (31)                     | 8 (10)                            |
| Leukopenia <sup>b</sup>       | 18 (35)                       | 8 (25)                         | 26 (31)                     | 7 (8)                             |
| Neutropenia <sup>c</sup>      | 14 (27)                       | 12 (38)                        | 26 (31)                     | 8 (10)                            |
| Anemia                        | 8 (16)                        | 9 (28)                         | 17 (21)                     | 6 (7)                             |
| Sepsis                        | 6 (12)                        | 6 (19)                         | 12 (15)                     | 4 (5)                             |

## Ziftomenib-Related AEs of Interest

- No ziftomenib-related QTc prolongation was reported with the combination
- 2 (2%) patients discontinued due to ziftomenib-related AEs (both *KMT2A*-r; grade 4 sepsis and grade 3 stomatitis)
- 1 (1%) differentiation syndrome (*NPM1*-m, grade 3) successfully resolved with protocol-specified mitigation and patient resumed ziftomenib

<sup>a</sup>Includes platelet count decreased and thrombocytopenia. <sup>b</sup>Includes white blood cell count decreased and leukopenia. <sup>c</sup>Includes neutrophil count decreased and neutropenia

# Clinical Activity<sup>a</sup> of Ziftomenib with Ven/Aza: R/R AML

| n (%)                                              | <i>NPM1</i> -m, 600 mg<br>(N=48) | <i>KMT2A</i> -r, 600 mg<br>(N=32) |
|----------------------------------------------------|----------------------------------|-----------------------------------|
| <b>CRc</b>                                         | 23 (48)                          | 9 (28)                            |
| Median time to first CRc, weeks (range)            | 3.9 (2.7–15.6)                   | 4.0 (2.6–18.9)                    |
| <b>ORR</b>                                         | 31 (65)                          | 13 (41)                           |
| CR                                                 | 13 (27)                          | 2 (6)                             |
| CRh                                                | 6 (13)                           | 5 (16)                            |
| CRi                                                | 4 (8)                            | 2 (6)                             |
| MLFS                                               | 7 (15)                           | 4 (13)                            |
| PR                                                 | 1 (2)                            | 0                                 |
| <b>NR</b>                                          | 13 (27)                          | 17 (53)                           |
| <b>NE<sup>b</sup></b>                              | 4 (8)                            | 2 (6)                             |
| <b>MRD negativity rate<sup>c</sup>, n/N (%)</b>    | 12/20 (60)                       | 3/7 (43)                          |
| Median time to first MRD negativity, weeks (range) | 8.8 (2.9–21.4)                   | 8.1 (7.7–18.9)                    |

- For *NPM1*-m, CR/CRh rates were 46% (13/28), 42% (5/12), and 14% (1/7) for patients with 1, 2, and ≥3 prior lines of therapy, respectively

<sup>a</sup>In patients with ≥1 response assessment or had died. <sup>b</sup>Not evaluable (1 *NPM1*-m) or not done (3 *NPM1*-m, 2 *KMT2A*-r). <sup>c</sup>Locally assessed among CRc responders (NGS, RT-qPCR, FISH, flow cytometry)  
Data cutoff: Sep 24, 2025. CR / CRh / CRi, complete remission with full / partial / incomplete hematologic recovery; CRc, composite complete remission; MLFS, morphologic leukemia-free state; MRD, measurable residual disease; NE, not evaluable; NR, no response; ORR, objective response rate; PR, partial response

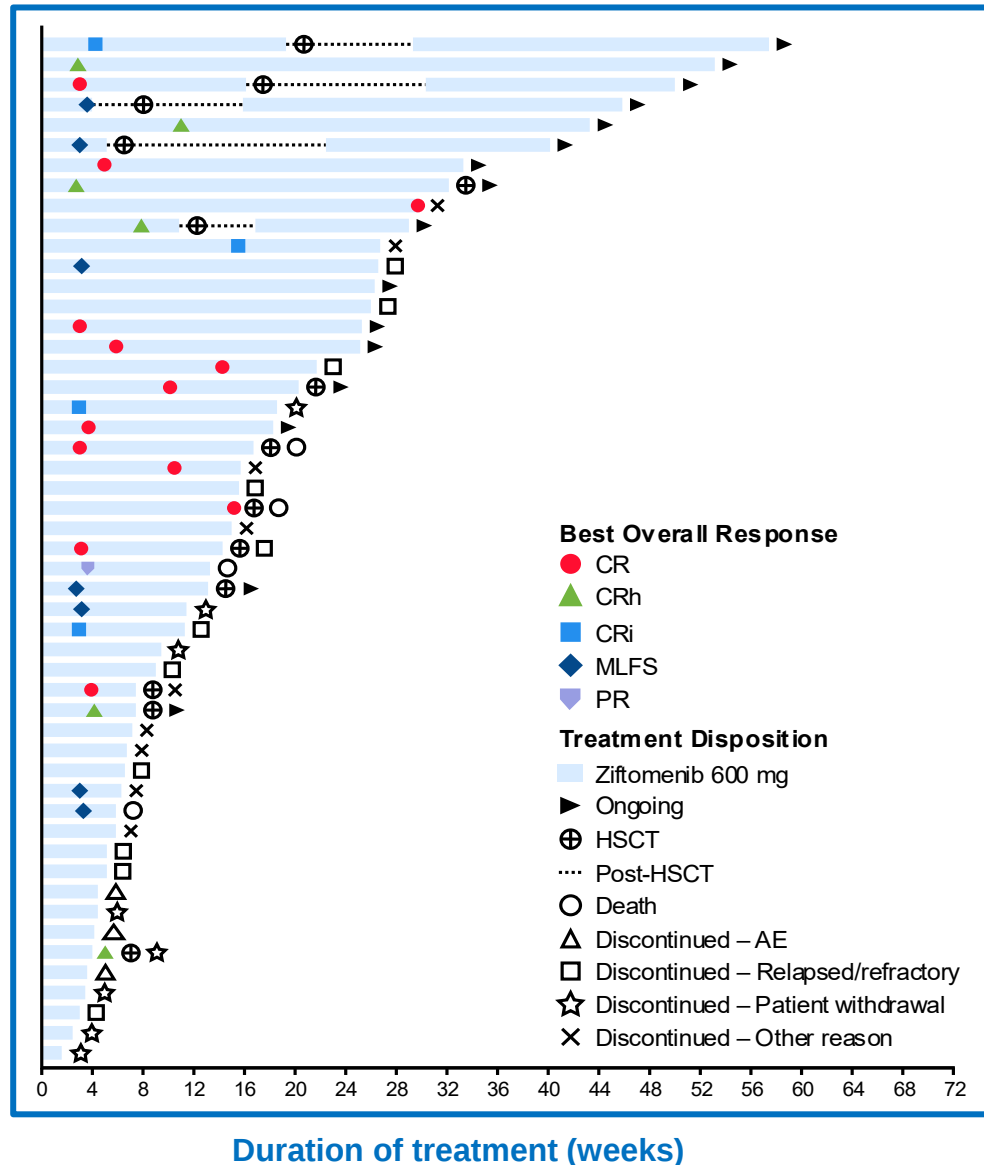
# Clinical Activity<sup>a</sup> by Prior Venetoclax

| n (%)                                               | No Prior Ven                     |                                   | Prior Ven                        |                                   |
|-----------------------------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|
|                                                     | <i>NPM1</i> -m, 600 mg<br>(N=23) | <i>KMT2A</i> -r, 600 mg<br>(N=10) | <i>NPM1</i> -m, 600 mg<br>(N=25) | <i>KMT2A</i> -r, 600 mg<br>(N=22) |
| <b>CRc</b>                                          | 16 (70)                          | 6 (60)                            | 7 (28)                           | 3 (14)                            |
| Median time to first CRc, weeks (range)             | 3.8 (2.7–15.6)                   | 3.4 (2.6–15.1)                    | 4.3 (2.9–14.3)                   | 9.3 (7.7–18.9)                    |
| <b>ORR</b>                                          | 19 (83)                          | 7 (70)                            | 12 (48)                          | 6 (27)                            |
| CR                                                  | 10 (44)                          | 2 (20)                            | 3 (12)                           | 0                                 |
| CRh                                                 | 4 (17)                           | 3 (30)                            | 2 (8)                            | 2 (9)                             |
| CRi                                                 | 2 (9)                            | 1 (10)                            | 2 (8)                            | 1 (5)                             |
| MLFS                                                | 3 (13)                           | 1 (10)                            | 4 (16)                           | 3 (14)                            |
| PR                                                  | 0                                | 0                                 | 1 (4)                            | 0                                 |
| <b>NR</b>                                           | 4 (17)                           | 3 (30)                            | 9 (36)                           | 14 (64)                           |
| <b>NE</b>                                           | 0                                | 0                                 | 4 (16)                           | 2 (9)                             |
| <b>MRD negativity rate<sup>b</sup>, n/N (%)</b>     | 7/13 (54)                        | 1/4 (25)                          | 5/7 (71)                         | 2/3 (67)                          |
| Time to first MRD negativity, median (range), weeks | 11.7 (3.1–16.6)                  | 8.1 (8.1–8.1)                     | 3.0 (2.9–21.4)                   | 13.3 (7.7–18.9)                   |

<sup>a</sup>In patients with ≥1 response assessment or had died. <sup>b</sup>Locally assessed among CRc responders  
Data cutoff: Sep 24, 2025. CR / CRh / CRi, complete remission with full / partial / incomplete hematologic recovery; CRc, composite complete remission; MLFS, morphologic leukemia-free state; MRD, measurable residual disease; NE, not evaluable; NR, no response; ORR, objective response rate; PR, partial response

# Duration of Treatment and Clinical Outcomes: R/R AML

## *NPM1*-m



For *NPM1*-m, after a median follow-up of 27.4 weeks (range 3.3–69.1):

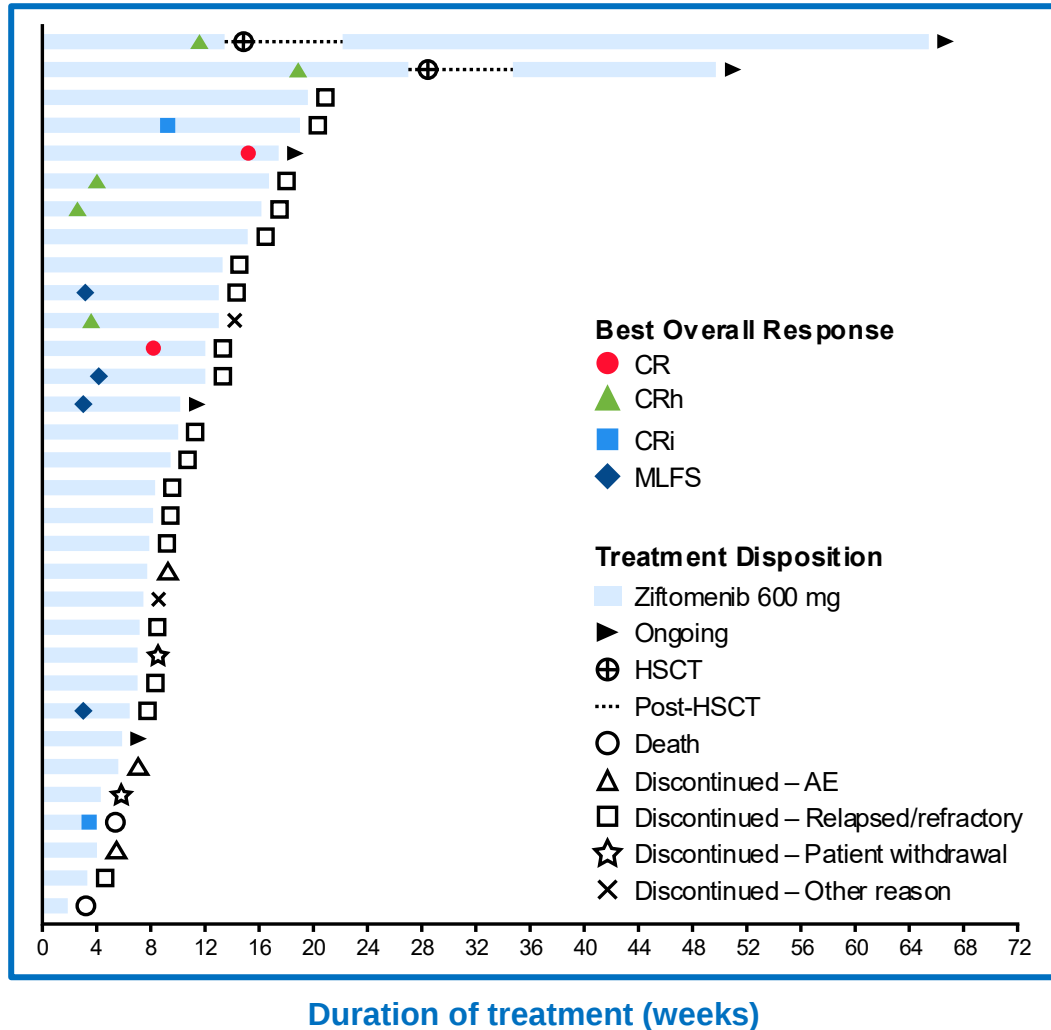
- Median duration of CRc was **39.9 weeks** (95% CI 16.1–NE)
  - Ven-naïve: 39.9 weeks (95% CI 12.9–NE)
- 14 *NPM1*-m patients received HSCT, and 5 went onto ziftomenib maintenance
- Median OS was **54.9 weeks** (95% CI 32.0–NE)

Data cutoff: Sep 24, 2025.

CR / CRh / CRi, complete remission with full / partial / incomplete hematologic recovery; CRc, composite complete remission  
MLFS, morphologic leukemia-free state; HSCT, hematopoietic stem cell transplant; OS, overall survival; PR, partial response

# Duration of Treatment and Clinical Outcomes: R/R AML

## *KMT2A-r*



For *KMT2A-r*, after a median follow-up of 16.9 weeks (range 2.4–65.4):

- Median duration of CRc was **12.4 weeks** (95% CI 0.9–NE)
  - Ven-naïve: 10.0 weeks (95% CI 0.9–NE)
- 2 *KMT2A-r* patients received HSCT, and both went onto ziftomenib maintenance
- Median OS was **21.1 weeks** (95% CI 12.4–64.9)

Data cutoff: Sep 24, 2025.

CR / CRh / CRi, complete remission with full / partial / incomplete hematologic recovery; CRc, composite complete remission  
MLFS, morphologic leukemia-free state; HSCT, hematopoietic stem cell transplant; OS, overall survival; PR, partial response

## ANC and Platelet Recovery in CRc Responders: R/R AML

| Median (range)                                                  | All Patients, 600 mg (N=32) <sup>a</sup> |
|-----------------------------------------------------------------|------------------------------------------|
| Days to ANC recovery $\geq 0.5 \times 10^9/\text{L}$            | 36 (0–136)                               |
| Days to ANC recovery $\geq 1.0 \times 10^9/\text{L}$            | 45 (34–145)                              |
| Days to platelet count recovery $\geq 50 \times 10^9/\text{L}$  | 27 (0–139)                               |
| Days to platelet count recovery $\geq 100 \times 10^9/\text{L}$ | 28 (0–243)                               |

- Times to neutrophil and platelet count recovery were comparable to those for Ven/Aza alone<sup>1</sup>

<sup>a</sup>Subset of patients who reached cutoff

1. Aldoss et al. *Haematologica*. 2018;103(9):e404–7.

Data cutoff: Sep 24, 2025. ANC, absolute neutrophil count

# Conclusions

- **In the ongoing KOMET-007 study, ziftomenib 600 mg once daily in combination with Ven/Aza was well tolerated in R/R *NPM1*-m or *KMT2A*-r AML**
  - Low rates of ziftomenib-related myelosuppression
  - No ziftomenib-related QTc prolongation was reported
  - One case of differentiation syndrome (*NPM1*-m, grade 3) successfully resolved with protocol-specified mitigation, and patient resumed ziftomenib
- **Encouraging clinical activity was demonstrated in patients with R/R *NPM1*-m or *KMT2A*-r AML, including in patients with prior venetoclax exposure**
  - *NPM1*-m: 65% ORR and 48% CRc, with a median DoR of 39.9 weeks
    - Ven-naïve: 83% ORR and 70% CRc; Ven-exposed: 48% ORR and 28% CRc
  - *KMT2A*-r: 41% ORR and 28% CRc, with a median DoR of 12.4 weeks
    - Ven-naïve: 70% ORR and 60% CRc
- **Taken together, these data support further investigation of ziftomenib-based combinations in R/R *NPM1*-m and *KMT2A*-r AML**

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