Updated Safety and Antileukemic Activity Data for Sonrotoclax (BGB-11417), a Potent and Selective BCL2 Inhibitor, in Patients With Relapsed/Refractory Acute Myeloid Leukemia

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CONCLUSIONS

- Sonrotoclax + azacitidine combination treatment was generally well tolerated and demonstrated antileukemic activity in patients with R/R AML without prior BCL2 inhibitor exposure, across all dose cohorts
- One DLT of grade 4 thrombocytopenia occurred
- The ORR was 60.3%; CR was achieved by 27.9% and CR/CRh by 42.6%
- Overall, 23.5% of patients proceeded to transplant
- The safety stopping criteria have not been met in any of the dose cohorts
- Exploratory exposure-response analysis for the 14-d cohorts showed that antileukemic activity at exposures associated with the 320-mg dose was higher than exposures associated with 80 and 160 mg
- Follow-up evaluation of 14-d dosing cohorts is ongoing in 80-mg, 160-mg, and 320-mg cohorts to determine the recommended phase 2 dose
- Data for patients with treatment naive AML are presented in poster PF477

INTRODUCTION

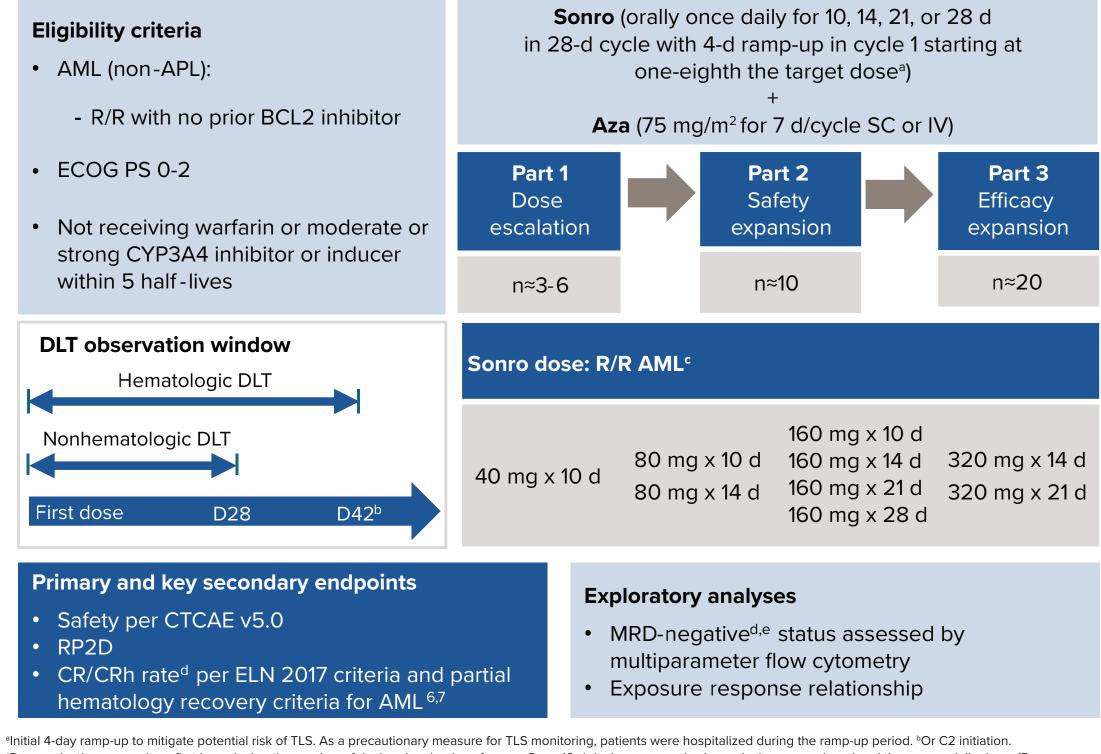
- Acute myeloid leukemia (AML), the most common acute form of leukemia in adults, has an aggressive disease course^{1,2}
- Although treatment with venetoclax, a B-cell lymphoma 2 (BCL2) inhibitor, has improved outcomes in some patients with newly diagnosed AML,³ it is not approved in relapsed/refractory (R/R) AML⁴
- Sonrotoclax (BGB-11417), a next-generation BCL2 inhibitor, is a more selective and pharmacologically potent inhibitor of BCL2 than venetoclax, with a shorter half-life and no drug accumulation⁵
- Updated safety and antileukemic activity data for sonrotoclax + azacitidine in R/R AML from the phase 1b part of the BGB-11417-103 study are presented

METHODS

TLS, tumor lysis syndrome.

• BGB-11417-103 (NCT04771130) is an ongoing, phase 1b/2, global, dose-finding and -expansion study evaluating the safety and antileukemic activity of sonrotoclax + azacitidine in patients with AML, myelodysplastic syndromes (MDS), or MDS/myeloproliferative neoplasms (Figure 1)

Figure 1. BGB-11417-103 Study Design

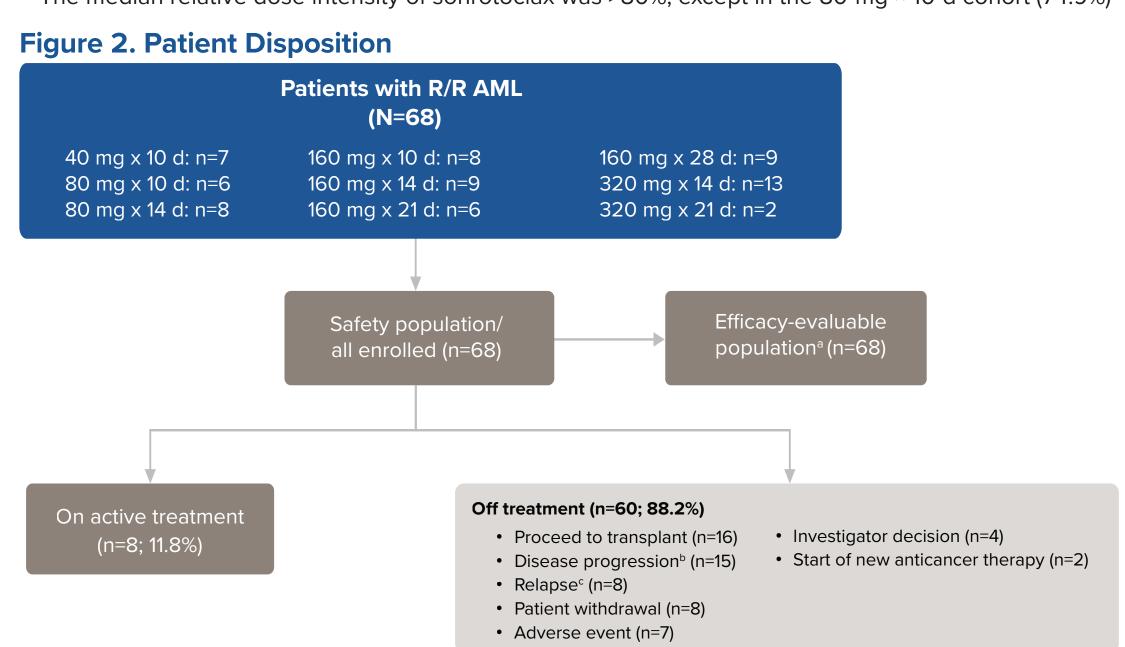


^cDose reductions were done first by reducing the number of dosing days/cycles of sonro. Once 10-d dosing was reached, aza dosing was reduced and then sonro daily dose. ^dResponse and MRD status were assessed at end of C1 (C2 if remission not yet achieved) and then every three cycles until C13, then every six cycles. ^eMRD-negative was defined as \leq 1 residual leukemic blasts per 1,000 leukocytes or 10⁻³ at any time on the study. Abbreviations: APL, acute promyelocytic leukemia; aza, azacitidine; C, cycle; CYP3A4, cytochrome P450 3A4; d, day; DLT, dose-limiting toxicity; ECOG PS, Eastern Cooperative Oncology Group performance status; ELN, European LeukemiaNet; IV, intravenous; MRD, minimal residual disease; RP2D, recommended phase 2 dose; SC, subcutaneous; sonro, sonrotoclax;

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RESULTS

- As of January 10, 2025, 68 patients with R/R AML were enrolled and treated with sonrotoclax +
- azacitidine; 8 (11.8%) remained on treatment (**Figure 2**)
- The median age was 60 years and the median number of prior lines of therapy was 1.0 (**Table 1**)
- The median number of study treatment cycles was 2; median average cycle length was 35.0 days (d) • The median relative dose intensity of sonrotoclax was >80%, except in the 80-mg × 10-d cohort (74.9%)



Data cutoff: January 10, 2025. ^aPatients who (1) completed ≥1 treatment cycle (initiated the second cycle) or 42 days, whichever is earlier, or discontinued treatment during the first cycle or (2) had ≥1 response assessment. ^bDefined as evidence of an increase in bone marrow blast percentage and/or in absolute blast counts in the blood, both per ELN 2017 response criteria. Hematologic relapse (after CR/CRi) defined as bone marrow blasts ≥5%, reappearance of blasts in the blood, or development of extramedullary disease. Abbreviations: CRi, CR with incomplete hematologic recovery; ELN, European LeukemiaNet.

Table 1. Baseline Patient Characteristics and Treatment Exposure in R/R AML

| | Sonro dose + aza | | | | | | | | | |
|--|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|---------------------------|----------------------|
| | 40 mg × 10 d (n=7) | 80 mg × 10 d (n=6) | 80 mg × 14 d (n=8) | 160 mg × 10 d (n=8) | 160 mg × 14 d (n=9) | 160 mg × 21 d (n=6) | 160 mg × 28 d (n=9) | 320 mg × 14 d (n=13) | 320 mg × 21 d (n=2) | Total (N=68) |
| Study follow-up time, median (range), months | 15.4 (9.2-39.5) | 20.8 (1.5- 37.8) | 5.0 (2.2-10.2) | 6.8 (0.2-24.5) | 5.5 (1.5-11.1) | 6.8 (4.6-16.5) | 4.9 (1.2-31.2) | 5.9 (0.9-17.0) | 12.1 (2.6-21.6) | 6.2 (0.2-39.5) |
| Age, median (range), years | 64.0 (36-80) | 70.0 (54-78) | 57.5 (48-83) | 52.5 (36-71) | 53.0 (27-72) | 53.0 (42-66) | 57.0 (29-69) | 64.0 (43-81) | 70.0 (67-73) | 60.0 (27-83) |
| Male, n (%) | 3 (42.9) | 3 (50.0) | 5 (62.5) | 5 (62.5) | 5 (55.6) | 4 (66.7) | 6 (66.7) | 9 (69.2) | 1 (50.0) | 41 (60.3) |
| AML type, n (%) | | | | | | | | | | |
| De novo | 7 (100) | 4 (66.7) | 7 (87.5) | 7 (87.5) | 5 (55.6) | 6 (100) | 8 (88.9) | 12 (92.3) | 1 (50.0) | 57 (83.8) |
| Secondary | 0 | 2 (33.3) | 1 (12.5) | 1 (12.5) | 4 (44.4) | 0 | 1 (11.1) | 1 (7.7) | 1 (50.0) | 11 (16.2) |
| HMA failure, n (%)ª | 0 | 0 | 1 (12.5) | 0 | 1 (11.1) | 1 (16.7) | 1 (11.1) | 2 (15.4) | 1 (50.0) | 7 (10.3) |
| ELN 2017 AML risk stratification, ⁶ n (%) | | | | | | | | | | |
| Favorable | 2 (28.6) | 1 (16.7) | 0 | 2 (25.0) | 2 (22.2) | 0 | 3 (33.3) | 5 (38.5) | 0 | 15 (22.1) |
| Intermediate | 1 (14.3) | 1 (16.7) | 4 (50.0) | 2 (25.0) | 3 (33.3) | 2 (33.3) | 1 (11.1) | 1 (7.7) | 0 | 15 (22.1) |
| Adverse | 4 (57.1) | 4 (66.7) | 4 (50.0) | 4 (50.0) | 4 (44.4) | 4 (66.7) | 5 (55.6) | 7 (53.8) | 2 (100) | 38 (55.9) |
| Positive genetic abnormality, n (%) ^b | | | | | | | | | | |
| IDH1/IDH2 | 2 (28.6) | 3 (50.0) | 1 (12.5) | 3 (37.5) | 1 (11.1) | 1 (16.7) | 3 (33.3) | 1 (7.7) | 0 | 15 (22.1) |
| FLT3 | 0 | 1 (16.7) | 1 (12.5) | 1 (12.5) | 0 | 1 (16.7) | 2 (22.2) | 2 (15.4) | 1 (50.0) | 9 (13.2) |
| NPM1 | 2 (28.6) | 1 (16.7) | 0 | 2 (25.0) | 1 (11.1) | 0 | 3 (33.3) | 1 (7.7) | 0 | 10 (14.7) |
| TP53 aneuploidy or -17/abn(17p) | 1 (14.3) | 1 (16.7) | 1 (12.5) | 0 | 0 | 1 (16.7) | 0 | 1 (7.7) | 1 (50.0) | 6 (8.8) |
| Prior therapy | | | | | | | | | | |
| Prior aza exposure, n (%) | 0 | 1 (16.7) | 3 (37.5) | 0 | 2 (22.2) | 1 (16.7) | 1 (11.1) | 3 (23.1) | 1 (50.0) | 12 (17.6) |
| No. of lines of prior systemic therapy, median (range) | 1.0 (1-2) | 1.0 (1-2) | 1.5 (1-5) | 2.0 (1-2) | 2.0 (1-4) | 2.0 (1-6) | 1.0 (1-3) | 1.0 (1-3) | 1.5 (1-2) | 1.0 (1-6) |
| Treatment exposure | | | | | | | | | | |
| No. of cycles, median (range) | 2.0 (2.0-15.0) | 10.5 (1.0-36.0) | 2.0 (1.0-8.0) | 2.5 (1.0-20.0) | 2.0 (1.0-5.0) | 2.0 (1.0-7.0) | 2.0 (1.0-4.0) | 3.0 (1.0-12.0) | 3.5 (1.0-6.0) | 2.0 (1.0-36.0) |
| Average cycle duration, median (range), days | 35.0 (29.5-41.5) | 33.3 (21.0-40.9) | 34.8 (28.0-44.0) | 35.0 (5.0-48.7) | 33.2 (22.0-44.0) | 36.8 (22.0-44.0) | 36.8 (25.0-53.0) | 35.0 (25.3-55.0) | 42.3 (35.7- 49.0) | 35.0 (5.0-55.0) |
| Relative sonro dose intensity, median (range), % | 100.0 (76.5-100.0) | 74.9 (57.0-112.7) | 91.1 (47.9-100.0) | 100.0 (33.9-100.0) | 100.0 (79.4-103.9) | 89.8 (54.9-100.0) | 90.0 (54.9-100.0) | 96.3 (50.7-116.8) | 82.1 (64.3-100.0) | 97.6 (22.0-156.0 |
| Relative aza dose intensity, median (range), % | 100.0 (52.3-100.3) | 85.5 (45.8-101.0) | 99.9 (69.5-101.5) | 99.8 (73.0-101.1) | 99.5 (79.2-100.8) | 99.5 (64.9-103.4) | 100.0 (69.9-100.9) | 99.7 (52.5-109.1) | 92.7 (84.3-101.1) | 99.7 (45.8-109.1) |

^aHMA failure received ≥1 cycle of HMA and had PD or no PR or better hematologic improvement after four cycles of >75% of planned dose. ^bAs reported by investigator. Abbreviations: aza, azacitidine; ELN, European LeukemiaNet; HMA, hypomethylating agent; PD, progressive disease; PR, partial response; sonro, sonrotoclax.

- Treatment-emergent adverse events (TEAEs) were similar in frequency and severity across doses (Table 2)
- The most common any-grade and grade \geq 3 TEAEs were neutropenia, infections and infestations, and thrombocytopenia (Figure 3)
- No cases of laboratory or clinical tumor lysis syndrome were reported
- One dose-limiting toxicity (DLT), grade 4 thrombocytopenia, occurred with 320 mg × 14 d
- Six patients (8.8%) had a TEAE leading to death; 2 cases were treatment related (160 mg × 28 d,
- neutropenic sepsis; 320 mg × 14 d, pneumonia); the 30-d mortality rate was 1.5%
- Treatment discontinuation due to TEAEs occurred in 7 patients (10.3%) - The most common TEAE classes leading to discontinuation of sonrotoclax (n=4, 5.9%) or azacitidine
- (n=4, 5.9%) were infection and infestations • TEAEs leading to dose reduction occurred in 8 patients (11.8%) and 2 patients (2.9%) with sonrotoclax and azacitidine, respectively
- The most common TEAE class leading to dose reduction of sonrotoclax was neutropenia (n=7, 10.3%) and of azacitidine was neutropenia and thrombocytopenia (n=1 each, 1.5%)

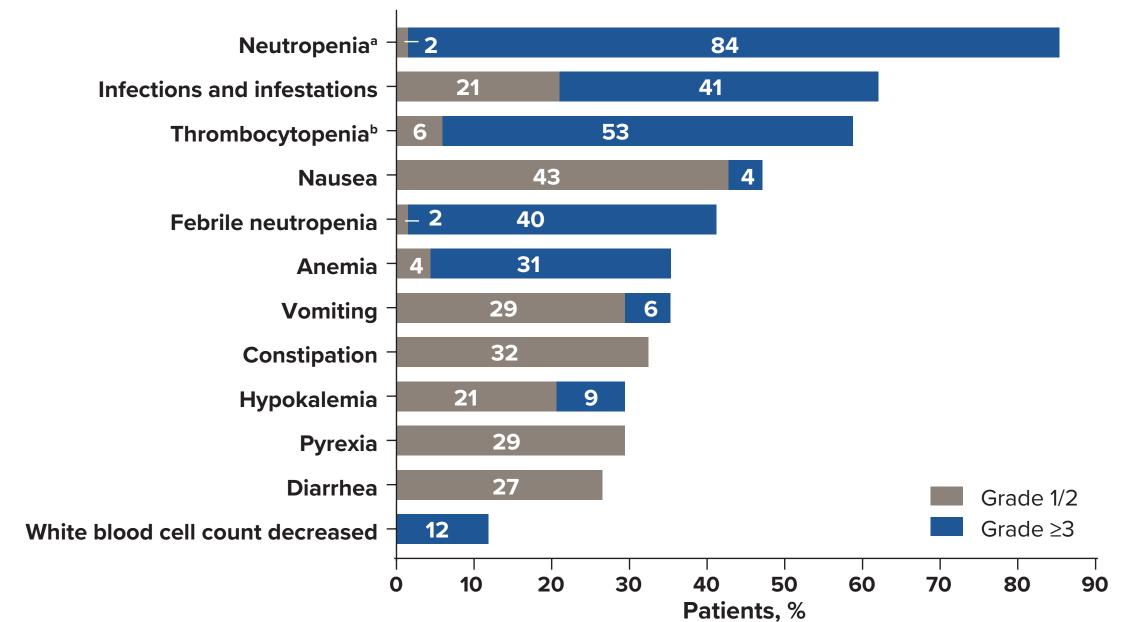
Table 2. TEAE Summary in R/R AML

| | Sonro dose + aza | | | | | | | | | |
|-------------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|---------------------------|-----------------|
| Patients, n (%) | 40 mg × 10 d (n=7) | 80 mg × 10 d (n=6) | 80 mg × 14 d (n=8) | 160 mg × 10 d (n=8) | 160 mg × 14 d (n=9) | 160 mg × 21 d (n=6) | 160 mg × 28 d (n=9) | 320 mg × 14 d (n=13) | 320 mg × 21 d (n=2) | Total (N=68) |
| Any TEAEs | 7 (100) | 6 (100) | 8 (100) | 8 (100) | 9 (100) | 6 (100) | 9 (100) | 13 (100) | 2 (100) | 68 (100) |
| Grade ≥3 | 7 (100) | 5 (83.3) | 7 (87.5) | 7 (87.5) | 8 (88.9) | 5 (83.3) | 9 (100) | 13 (100) | 2 (100) | 63 (92.6) |
| Neutropeniaª | 5 (71.4) | 5 (83.3) | 7 (87.5) | 6 (75.0) | 8 (88.9) | 5 (83.3) | 9 (100) | 11 (84.6) | 1 (50.0) | 57 (83.8) |
| Thrombocytopenia ^b | 2 (28.6) | 2 (33.3) | 4 (50.0) | 7 (87.5) | 4 (44.4) | 1 (16.7) | 7 (77.8) | 9 (69.2) | 0 | 36 (52.9) |
| Infection and infestation | 4 (57.1) | 4 (66.7) | 0 | 5 (62.5) | 6 (66.7) | 1 (16.7) | 2 (22.2) | 4 (30.8) | 2 (100) | 28 (41.2) |
| Serious TEAEs | 5 (71.4) | 4 (66.7) | 4 (50.0) | 7 (87.5) | 8 (88.9) | 4 (66.7) | 7 (77.8) | 8 (61.5) | 2 (100) | 49 (72.1) |
| DLT, n/N (%) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1/12 (8.3) ^c | 0 | 1/62 (1.6) |
| Led to death ^d | 0 | 0 | 0 | 1 (12.5) | 1 (11.1) | 0 | 3 (33.3) | 1 (7.7) | 0 | 6 (8.8) |
| Led to discontinuation | | | | | | | | | | |
| Aza | 1 (14.3) | 0 | 0 | 2 (25.0) | 1 (11.1) | 1 (16.7) | 1 (11.1) | 2 (15.4) | 0 | 8 (11.8) |
| Sonro | 1 (14.3) | 0 | 0 | 2 (25.0) | 1 (11.1) | 1 (16.7) | 1 (11.1) | 2 (15.4) | 0 | 8 (11.8) |
| Led to reduction | | | | | | | | | | |
| Aza | 0 | 1 (16.7) | 0 | 0 | 0 | 0 | 0 | 1 (7.7) | 0 | 2 (2.9) |
| Sonro | 0 | 2 (33.3) | 1 (12.5) | 1 (12.5) | 0 | 1 (16.7) | 1 (11.1) | 1 (7.7) | 1 (50.0) | 8 (11.8) |
| Led to interruption | | | | | | | | | | |
| Aza | 0 | 2 (33.3) | 0 | 2 (25.0) | 3 (33.3) | 1 (16.7) | 0 | 0 | 0 | 8 (11.8) |
| Sonro | 0 | 1 (16.7) | 0 | 2 (25.0) | 2 (22.2) | 2 (33.3) | 2 (22.2) | 0 | 0 | 9 (13.2) |

Neutropenia includes the terms neutropenia, febrile neutropenia, neutrophil count decreased, and neutropenic sepsis. ^bThrombocytopenia includes the terms thrombocytopenia and platelet count decreased. cAchieved best response of CRi/CRh and continued treatment with a dose (duration) reduction after count recovery. dAorto-bronchial fistula (160 mg × 28 d), bone marrow failure (160 mg \times 28 d; related to PD), Klebsiella sepsis (160 mg \times 10 d), neutropenic sepsis (160 mg \times 28 d; related to aza, sonro, and disease), pneumonia (320 mg × 14 d; related to aza, sonro, and disease), and pulmonary mucormycosis (160 mg × 14 d; related to PD).

Abbreviations: aza, azacitidine; CR, complete response; CRh, CR with partial hematologic recovery; CRi, CR with incomplete hematologic recovery; DLT, dose-limiting toxicity; PD, progressive disease; sonro, sonrotoclax.

Figure 3. TEAEs in ≥20% (All Grades) or ≥10% (Grade ≥3) of Patients With R/R AML



^aNeutropenia includes the terms neutropenia, febrile neutropenia, neutrophil count decreased, and neutropenic sepsis. ^bThrombocytopenia includes the terms thrombocytopenia and platelet count decreased. Abbreviation: TEAE, treatment-emergent adverse event.

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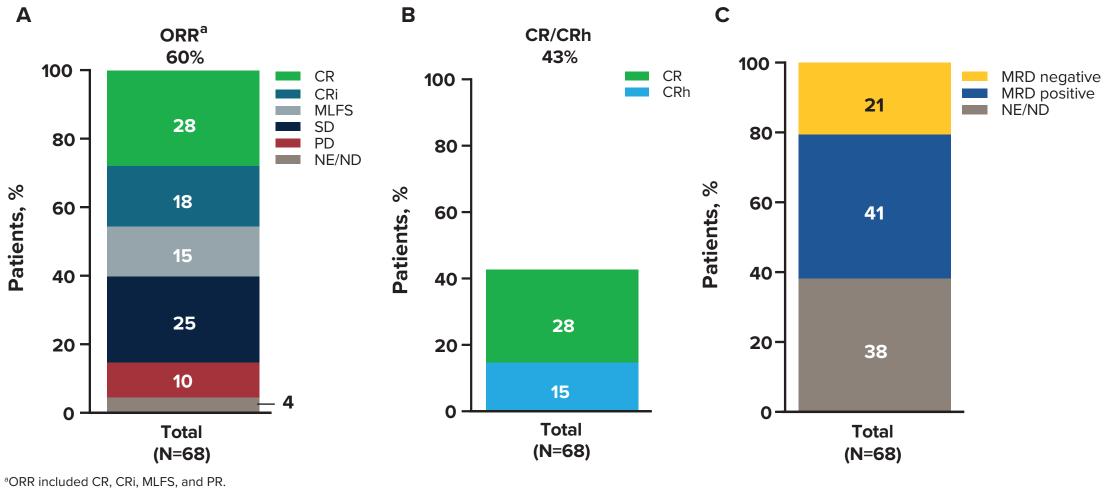
- With a median follow-up of 6.2 months (m), the overall response rate (ORR) in all patients was 60.3% (Figure 4A)
- Complete response (CR)/CR with partial hematologic recovery (CRh) was achieved in 42.6% (95% CI, 30.7%-55.2%) of patients by a median time of 1.7 m; CR was achieved in 27.9% (95% CI, 17.7%-40.1%) of patients by a median of 1.9 m (**Table 3** and **Figure 4B**)
- In the cohorts with the longest follow-up (40, 80, and 160 mg × 10 d), 50%, 75% and 100% of patients who achieved CR/CRh, respectively, remained alive and progression free at 12 m since the first determination of response
- Overall, 23.5% of patients proceeded to transplant
- Minimal residual disease-negative status was achieved by 20.6% of patients (Figure 4C)

Table 3. Summary of Disease Responses in R/R AML^a

| | Sonro dose + aza | | | | | | | | | |
|---|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|---------------------------|------------------|
| | 40 mg × 10 d (n=7) | 80 mg × 10 d (n=6) | 80 mg × 14 d (n=8) | 160 mg × 10 d (n=8) | 160 mg × 14 d (n=9) | 160 mg × 21 d (n=6) | 160 mg × 28 d (n=9) | 320 mg × 14 d (n=13) | 320 mg × 21 d (n=2) | Total (N=68) |
| CR, n (%) | 2 (28.6) | 3 (50.0) | 2 (25.0) | 2 (25.0) | 1 (11.1) | 2 (33.3) | 2 (22.2) | 5 (38.5) | 0 | 19 (27.9) |
| Time to CR, median (range), months | 3.2 (1.5-4.9) | 4.1 (3.7-4.6) | 1.9 (1.7-2.1) | 3.2 (1.9-4.4) | 2.3 (2.3-2.3) | 1.4 (0.9-1.9) | 1.3 (1.1-1.4) | 1.2 (0.8-5.1) | _ | 1.9 (0.8-5.1) |
| By end of cycle 2, n (%) | 1 (14.3) | 0 | 2 (25.0) | 1 (12.5) | 1 (11.1) | 2 (33.3) | 2 (22.2) | 4 (30.8) | 0 | 13 (19.1) |
| CR/CRh, n (%) | 5 (71.4) | 4 (66.7) | 2 (25.0) | 3 (37.5) | 1 (11.1) | 2 (33.3) | 3 (33.3) | 8 (61.5) | 1 (50.0) | 29 (42.6) |
| Time to CR/CRh, median (range), months | 2.4 (1.2-3.5) | 3.9 (1.1-4.6) | 1.9 (1.7-2.1) | 1.9 (1.0-1.9) | 1.4 (1.4-1.4) | 1.4 (0.9-1.9) | 1.1 (0.8-1.4) | 1.3 (0.8-5.1) | 7.7 (7.7-7.7) | 1.7 (0.8-7.7) |
| CR/CRi, n (%) | 4 (57.1) | 4 (66.7) | 4 (50.0) | 3 (37.5) | 1 (11.1) | 2 (33.3) | 3 (33.3) | 9 (69.2) | 1 (50.0) | 31 (45.6) |
| Time to CR/CRi, median (range), months | 2.0 (1.2-3.2) | 3.0 (1.1-4.1) | 1.9 (0.8-2.4) | 1.0 (0.8-1.9) | 1.4 (1.4-1.4) | 1.4 (0.9-1.9) | 1.1 (0.8-1.4) | 1.2 (0.8-5.1) | 7.7 (7.7-7.7) | 1.4 (0.8-7.7) |
| Proceeded to transplant, n (%) | 3 (42.9) | 1 (16.7) | 2 (25.0) | 2 (25.0) | 3 (33.3) | 2 (33.3) | 2 (22.2) | 1 (7.7) | 0 | 16 (23.5) |
| MRD negative, n (%) | 2 (28.6) | 1 (16.7) | 0 | 1 (12.5) | 1 (11.1) | 2 (33.3) | 1 (11.1) | 5 (38.5) | 1 (50.0) | 14 (20.6) |
| MRD NE/ND, n (%) | 2 (28.6) | 1 (16.7) | 3 (37.5) | 2 (25.0) | 5 (55.6) | 2 (33.3) | 7 (77.8) | 3 (23.1) | 1 (50.0) | 26 (38.2) |

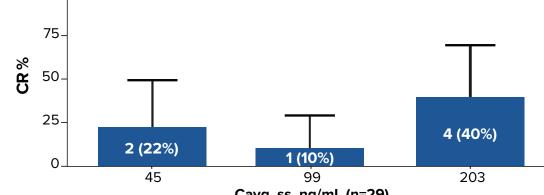
Abbreviations: aza, azacitidine; CR, complete response; CRh, CR with partial hematologic recovery; CRi, CR with incomplete hematologic recovery; ELN, European LeukemiaNet; MRD, minimal residual disease; ND, not done; NE, not estimable; sonro, sonrotoclax.

Figure 4. (A) ORR, (B) CR/CRh Rate, and (C) MRD Status in R/R AML



Abbreviations: CRi, CR with incomplete hematologic recovery; MLFS, morphologic leukemia-free state; MRD, minimal residual disease; ND, not done; NE, not evaluable; PD, progressive disease; PR, partial response; SD, stable disease.

Figure 5. CR Rate by End of Cycle 2 by **Sonrotoclax Exposure in 14-Day Cohorts**



Cavg, ss, ng/mL (n=29)

Median Cavg, ss for the 80-mg, 160-mg, and 320-mg dose levels was 60 ng/mL, 86 ng/mL, and 176 ng/mL, respectively. Abbreviations: Cavg, ss, average sonrotoclax concentration at steady state; CR, complete response.

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• In the 14-d cohorts with comparable

those in lower tertiles (Figure 5)

follow-up, exploratory exposure-response

analysis showed that CR rates by the end

of cycle 2 for the third (highest) tertile of

sonrotoclax exposure were higher than

DISCLOSURES

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