Teclistamab in a Large Cohort of ~100 Asian Patients with Triple-Class Exposed Multiple Myeloma: Experience from Trial and Non-Trial Settings

Tadao Ishida¹, Jun Ho Yi², Chandramouli Nagarajan³, Zhen Cai⁴, Weijun Fu^{5†}, Shinsuke Iida⁶, Sung Hoon Jung⁷, Yoshiaki Kuroda⁸, Chang-Ki Min⁹, Ting Niu¹⁰, Aditi S. Manjeri³, Dok Hyun Yoon¹¹, Kazuko Nishikawa¹², Xiaohong Wang¹², Yang Song¹², Hiroshi Yamazaki¹², Yusuke Izumi¹², Jianmin Zhuo¹², Angeline Zhu¹², Juan Du^{13‡*}

Key Takeaway

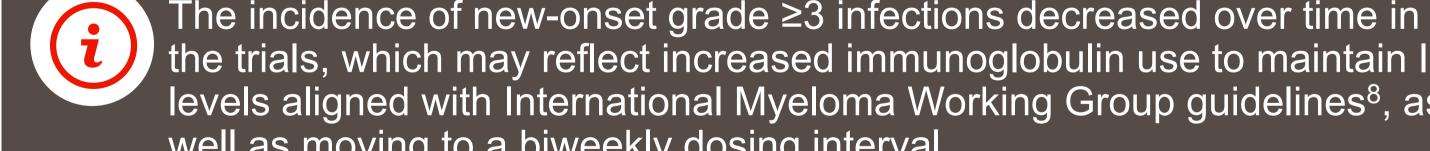


In this large cohort of Asian patients with TCE RRMM (N=99), teclistamab as a weight-based dosing regimen induced deep and durable responses in both trial and non-trial settings. The overall safety profile was consistent with the pivotal MajesTEC-1 study.

Conclusions



In Asian patients treated with teclistamab in clinical trials, ORR was 76.9% with 63.5% of patients achieving ≥CR; median DOR, PFS and OS were not yet reached after a median follow-up of 26.3 months. In Asian patients treated outside of the clinical trial setting, ORR/≥CR rates of 68.1%/44.7% were observed.



the trials, which may reflect increased immunoglobulin use to maintain IgG levels aligned with International Myeloma Working Group guidelines⁸, as well as moving to a biweekly dosing interval.



These findings support the adoption of teclistamab as the new standard of care for patients with TCE RRMM and emphasize the importance of improving the feasibility and adoption of best practices for effective AE management in clinical practice, including lg use.



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Congress Hub Presentation URL Link: https://www.congresshub.com/ASH2025/Oncology/Teclistamab/Ishida

Introduction

Results

Characteristic

Age, years, median (range)

Weight, kg, median (range)

ECOG PS at baseline, n (%)

ISS stage at study entry, n (%)

High-risk cytogenetics, n (%)

Prior exposure, n (%)

Triple-class

Penta-drug[†]

Number of prior LOT, median (range)

ISS, International Staging System; LOT, line of therapy.

** Korea and Singapore cohorts, respectively.

55.8

Asian Trial cohort (N=52)

the Japan study. Response in the Asian PAA cohort was assessed by physicians.

Figure 2: Response rates^a

Extramedullary plasmacytomas: bone-independent soft tissue plasmacytoma.

†Penta-drug exposure includes at least two IMiDs, at least two Pls, and at least one anti-CD38 antibody.

Extramedullary plasmacytomas* ≥1, n (%)

Male, n (%)

Study populations (Table 1)

disease, and no prior BCMA exposure.

Table 1: Baseline features of the Asian cohorts

- Teclistamab is the first B cell maturation antigen (BCMA) and CD3+ bispecific antibody (BsAb) approved for the treatment of patients (pts) with triple-class exposed (TCE = a proteosome inhibitor [PI], an immunomodulatory drug [IMiD], and anti-CD38 antibody) relapsed/refractory multiple myeloma (RRMM).^{1,2}
- Teclistamab induced rapid, deep, and durable responses with a manageable safety profile in clinical trials.3-5 Teclistamab has weightbased dosing and the most real-world experience (>20,800 patients).6
- Here, we present the efficacy and safety of teclistamab in large cohorts of Asian pts, including
- 1) Asian clinical trial cohort: China cohort of MajesTEC-1 and phase 2 MMY1002 study in Japan
- 2) outside trial experience from Asian pre-approval access (PAA) cohort from Korea and Singapore.

Asian clinical trial cohort: median 5 prior lines of therapy (LOT), 38.5%

cytogenetics, 21.3% had soft-tissue EMD, 80.9% had prior penta-drug

Some pts in the Asian PAA cohort had features that would have made

them ineligible for MajesTEC-1 inclusion: 29.8% with ECOG 2-3, 12.8%

cohort

21 (40.4)

67 (42–84)

58.0 (37.5–86.4)

13 (25.0)

24 (46.2)

28 (53.8)

25 (48.1)

17 (32.7)

10 (19.2)

20 (38.5)

5 (2–12)

52 (100.0)

26 (50.0)

44.7

10.6

12.8

Asia PAA cohort (N=47)

^aResponse assessed by independent review committee in the MajesTEC-1 study and by a computerized algorithm in

had high-risk cytogenetics, 25.0% had soft-tissue extramedullary

Asian PAA cohort: 72.3% had ≥5 prior LOTs; 25.5% had high risk

with CrCl <30 mL/min, and 6.4% with prior BCMA exposure.

Asian PAA

(N=47)

30 (63.8)

67 (48-84), 64 (53-

14 (29.8)

10 (21.3)

18 (38.3)

18 (38.3)

12 (25.5)

6 (3-10), 4 (3-4)**

43 (91.5)

38 (80.9)

sCR: stringent CR

CR: complete response

VGPR: very good PR

PR: partial response

55.3%

CR/sCR: either of above

• Median follow-up: 26.3 mo. At the time of analysis, 28 pts (53.8%) switched from QW to Q2W (13 in China cohort, 15 in Japan cohort). Median time to switch was 9.3 mo (range: 7.1-26.0).

Asian Trial cohort (N=52): Efficacy

treatment options.7

Methods

described.^{3,4}

- ORR was 76.9% (95% CI 63.2–87.5), 63.5% achieved ≥CR and 76.9% achieved ≥VGPR (Figure 2).
- ORR/≥CR rates across subgroups were:
- Triple-class refractory (n=33), 78.8%/60.6%; Penta-drug refractory (n=9), 66.7%/55.6%;

The Asian clinical trial cohort (N=52) included:

(enrollment period: Jul 2023-Feb 2024).

26 pts from the MajesTEC-1 China cohort (NCT04557098),

The Asian PAA cohort (N=47) included 42 patients from Korea

enrollment period: December 2021–September 2022; and 26 pts from

the Japan study (NCT04696809), enrollment period: July 2022–March

The MajesTEC-1 and Japan study designs have been previously

(enrollment period: October 2022–March 2023) and 5 from Singapore

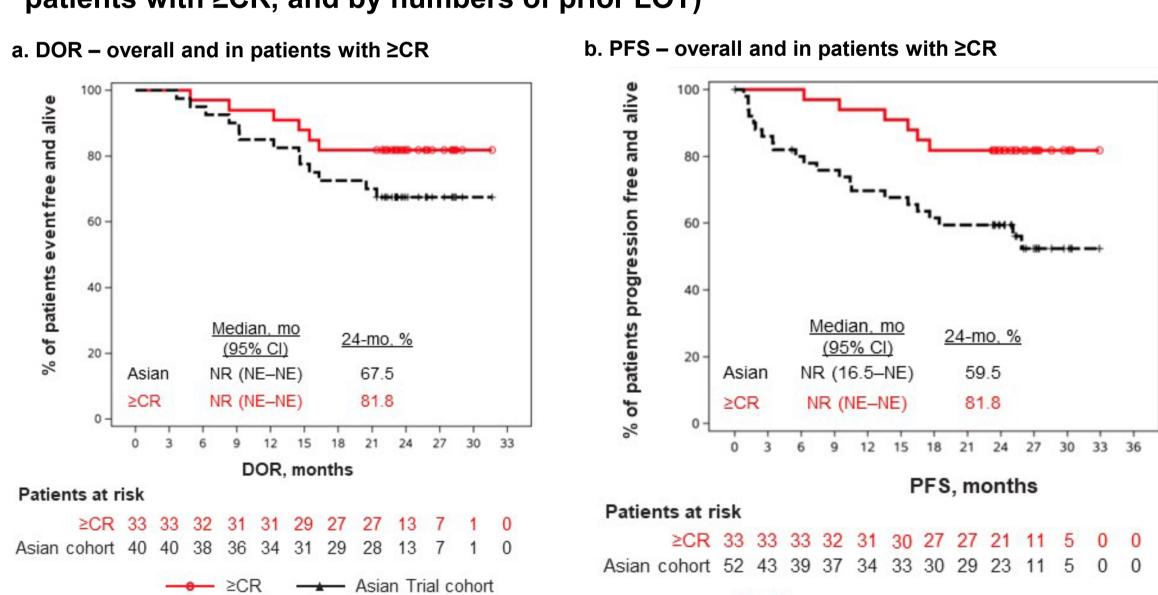
Patients were eligible for treatment under the PAA if they had prior

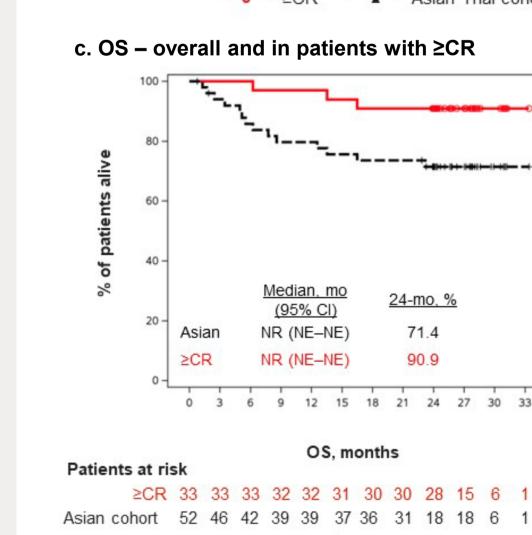
exposure to a PI, an IMiD, and an anti-CD38 antibody, and had

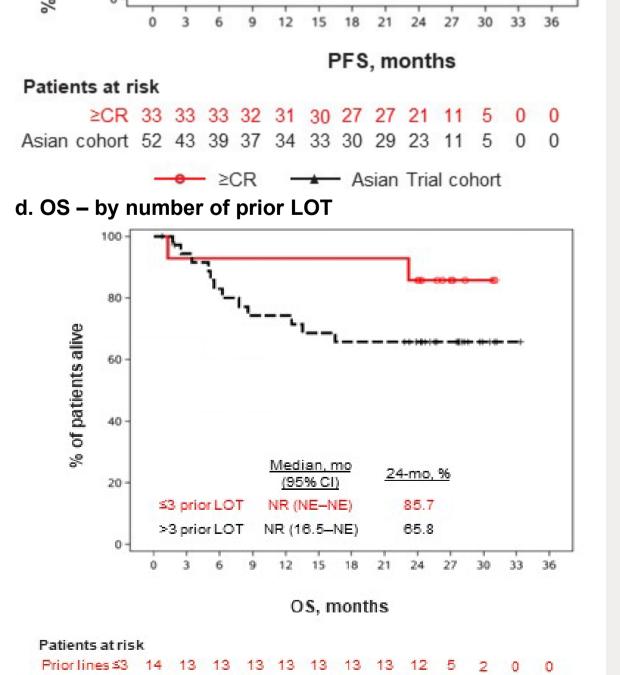
exhausted all commercially approved and clinically appropriate

- Age ≥75 years (n=7), 85.7%/71.4%;
- ECOG PS \geq 1 (n=28), 64.3%/50.0%; ISS-III (n=10), 60.0%/30%;
- High-risk cytogenetics (n=20), 60.0%/30%;
- EMD (n=13), 46.2%/23.1%.
- Median DOR, PFS, and OS were not reached. The 24-mo DOR, PFS, and OS were 67.5%, 59.5%, and 71.4%, respectively (**Figure 3a-c**).
- Pts who achieved ≥CR (n=33) had higher 24-mo DOR, PFS, and OS rates at 81.8%, 81.8%, and 90.9%, respectively.
- Pts who received ≤3 prior LOT (n=14) had higher ORR/≥CR rates (85.7%/85.7%), and higher 24-mo DOR, PFS and OS rates (91.7%, 78.6%, 85.7%, respectively) vs those with >3 prior LOT (Figure 3d).

Figure 3: DOR, PFS, and OS in the Asian clinical trial cohort (overall and in patients with ≥CR, and by numbers of prior LOT)





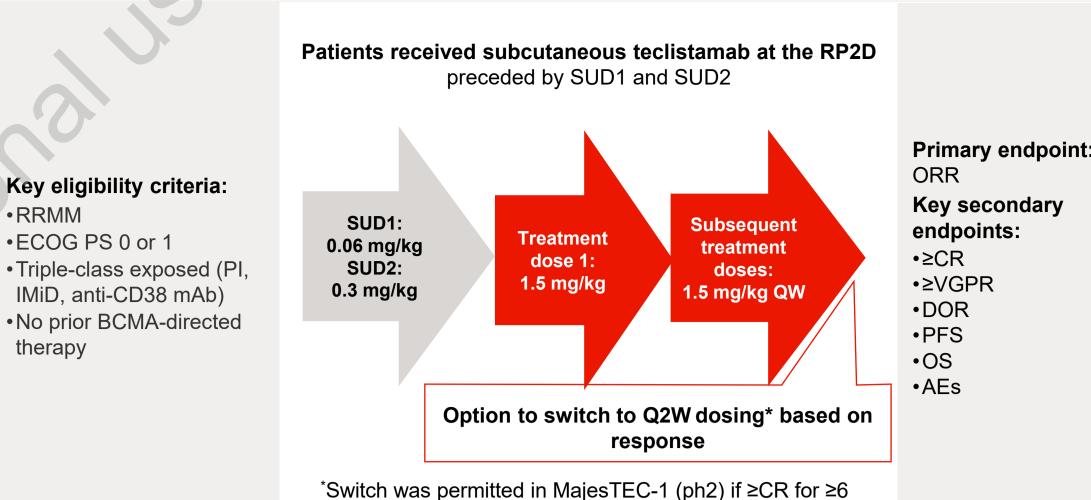


≥CR Asian Trial cohort CR: complete response; LOT, lines of therapy; OS, overall survival; PFS, progression-free survival; DOR, duration of

response; NE, not estimable; NR, not reached.

1. TECVAYLI® (teclistamab). Summary of product characteristics. European Medicines Agency: www.ema.europa.eu/en/documents/product-information/tecvayli-epar-product-information en.pdf. 2. Product Information. US Food & Drug Administration: www.accessdata.fda.gov/drugsatfda docs/label/2022/761291s000lbl.pdf . 3. Garfall AL, et al. JCO 2024;42, suppl. 7540. 4. Cai et al. Cancer. 2025; 131: e3566. 5. Usmani et al Lancet. 2021; 398: 665-74. . 6. Data on file. 7. Yi JH, et al. Blood. 2024;144:7033.. 8 Raje et al. Lancet Haematol. 2022;9(2):e143-e161.

Figure 1: MajesTEC-1 and MMY1002 Japan study design



AE, adverse event: CR, complete response: DOR, duration of response: EGOG PS, Eastern Cooperative Oncology Group performance status; IMiD, immunomodulatory drug; mAb, monoclonal antibody; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PI, proteasome inhibitor; PR, partial response; Q2W, every other week; QW, weekly; SUD, step-up dose; VGPR, very good partial response.

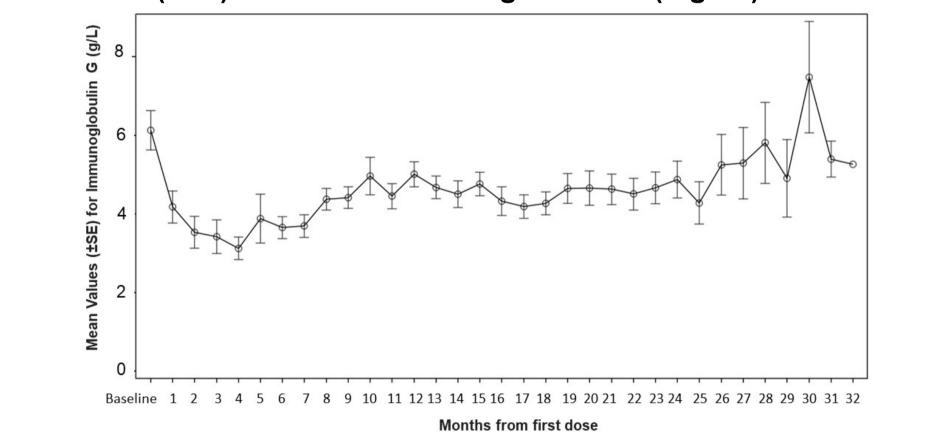
months (mo) and MMY1002 if ≥PR for ≥6 mo

Asian Trial cohort (N=52): Safety

•ECOG PS 0 or 1

- The most frequent AEs were cytokine release syndrome, cytopenias, and infections, consistent with the known profile of BCMA BsAbs.
- 2 (3.8%) pts discontinued due to AEs (including 1 due to infection)
- Infection profile, IgG level and Ig use:
- The incidence of new-onset grade ≥3 infections was more frequent within the first 6 mo of teclistamab therapy and decreased over time: 32.7% (17/52) within first 6 mo, 26.3% (10/38) within >6 to 12 mo, 26.7% (8/30) within >12 to 18 mo, 14.8% (4/27) within >18 to 24 mo, 10.5% (2/19) > 24 mo.
- 46/52 pts (88.5%) had ≥1 postbaseline IgG level <400mg/dL after teclistamab therapy; median time to IgG <400mg/dL was 1.3 mo (range 0.2–5.7), and 43/52 pts (82.7%) received ≥1 dose of Ig replacement (either IV or SC). Mean IgG level began to rise after 6 mo of teclistamab therapy and remained consistently above 400 mg/dL after 8 mo (Figure

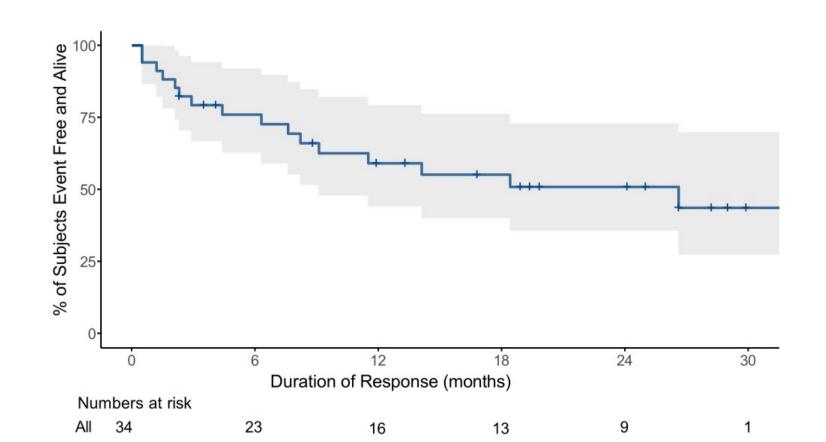
Figure 4: Mean (±SE) values for Immunoglobulin G (mg/dL) level over time



Asian PAA cohort (Non-trial setting, N=47)

- Median follow-up was 28.0 mo for Korean pts and 8.3 mo for Singapore
- ORR was 68.1% and 44.7% achieved ≥CR (based on serologic response) and 55.3% achieved ≥VGPR (Figure 2).
- The estimated 12-mo DOR was 58% (Figure 5); the estimated 12-mo PFS and OS were 48.1% and 55.0%, respectively;
- 9 (19.1%) pts discontinued due to AEs.

Figure 5: DOR in the Asian PAA cohort (overall)



Multiple Myeloma

