

# A Clinical Overview of Infections in Patients Receiving Elranatamab in Combination With Daratumumab and Lenalidomide for Newly Diagnosed Multiple Myeloma in the MagnetisMM-6 Trial

## Objective



To describe the characteristics of infection AEs observed in patients who received the RP3D of EDR during the dose-finding Part 1 of MagnetisMM-6

## Conclusions



- Patients with NDMM receiving EDR are at risk of developing infections, especially early in the treatment course, highlighting the need for early and proactive screening, anti-infective prophylaxis (including Ig replacement), and close monitoring
- Infections predominantly occurred during the initial treatment period and coincided with the lowest levels of functional IgG
  - Early intravenous Ig replacement use is important during the initial cycles to avoid IgG levels <400 mg/dL
  - Prompt intervention for suspected infections should be prioritized

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## Background

- Initial results from the dose-finding phase of MagnetisMM-6 (NCT05623020), evaluating elranatamab (ELRA) + daratumumab (DARA) + lenalidomide (R) (EDR), showed early and promising efficacy with a predictable safety profile in transplant-ineligible (TI) patients with newly diagnosed multiple myeloma (NDMM)<sup>1</sup>
- Patients with MM are at increased risk of developing infections due to the immunosuppressive nature of the disease and the host factors<sup>2</sup>
- Given the potential overlapping infectious and hematologic adverse events (AEs) with the EDR combination, a comprehensive understanding of the infection profile is needed to guide prophylaxis and risk-management strategies in the randomized phase 3 portion of MagnetisMM-6

## Results

### PATIENTS AND TREATMENT

- In Part 1 DLG of MagnetisMM-6, 37 patients with TI NDMM received ≥1 dose of ELRA
  - 34 patients received the EDR combination

### INFECTIONS

- Infections were reported in 78.4% of patients (Table 1)
  - The most frequent (≥10%) infections (any grade; grade 3) were upper respiratory tract infection (24.3%; 0%), pneumonias (clustered) (16.2%; 8.1%), *Escherichia* urinary tract infection (13.5%; 2.7%), viral upper respiratory tract infection (13.5%; 0%), and bronchitis (10.8%; 0%)
  - There were no grade 4 infections
  - One patient (2.7%) had a grade 5 AE of *Candida* pneumonia in cycle 1
- Infections by pathogen type were 35.1% bacterial, 35.1% viral, and 13.5% fungal; the pathogen was unspecified in 51.4% of infections (Figure 2)
  - Cytomegalovirus-related AEs occurred in 10 patients (27.0%; 4 [10.8%] grade 2 and 1 [2.7%] grade 3)
  - There were 2 (5.4%) COVID-19 infections (both grade 2) and 1 (2.7%) SARS-CoV-2 positive test (grade 1)
- The overall exposure-adjusted event rate (95% CI) of grade ≥3 infections was 0.04 (0.03-0.07) events per month
  - Rates without and with hypogammaglobulinemia (ie, IgG <400 mg/dL) were 0.03 (0.01-0.06) and 0.07 (0.04-0.12), respectively
  - Rates with and without Ig replacement were 0.02 (0.01-0.04) and 0.08 (0.05-0.14), respectively
  - The grade 5 infection occurred in a patient who did not receive Ig replacement

**Table 1. Infections occurring in ≥5% of patients**

Infections, n (%)	N=37	
	Any grade	Grade 3
Any	29 (78.4)	9 (24.3)
Upper respiratory tract infection	9 (24.3)	0
Pneumonias (clustered)	6 (16.2)	3 (8.1)
<i>Escherichia</i> urinary tract infection	5 (13.5)	1 (2.7)
Viral upper respiratory tract infection	5 (13.5)	0
Bronchitis	4 (10.8)	0
Cytomegalovirus infection reactivation	3 (8.1)	0
Rhinitis	3 (8.1)	0
Urosepsis	2 (5.4)	2 (5.4)
<i>Campylobacter</i> bacteremia	2 (5.4)	1 (2.7)
Infection	2 (5.4)	1 (2.7)
Salmonellosis	2 (5.4)	1 (2.7)
COVID-19	2 (5.4)	0
Sinusitis	2 (5.4)	0
Urinary tract infection	2 (5.4)	0

### TIMING OF INFECTIONS

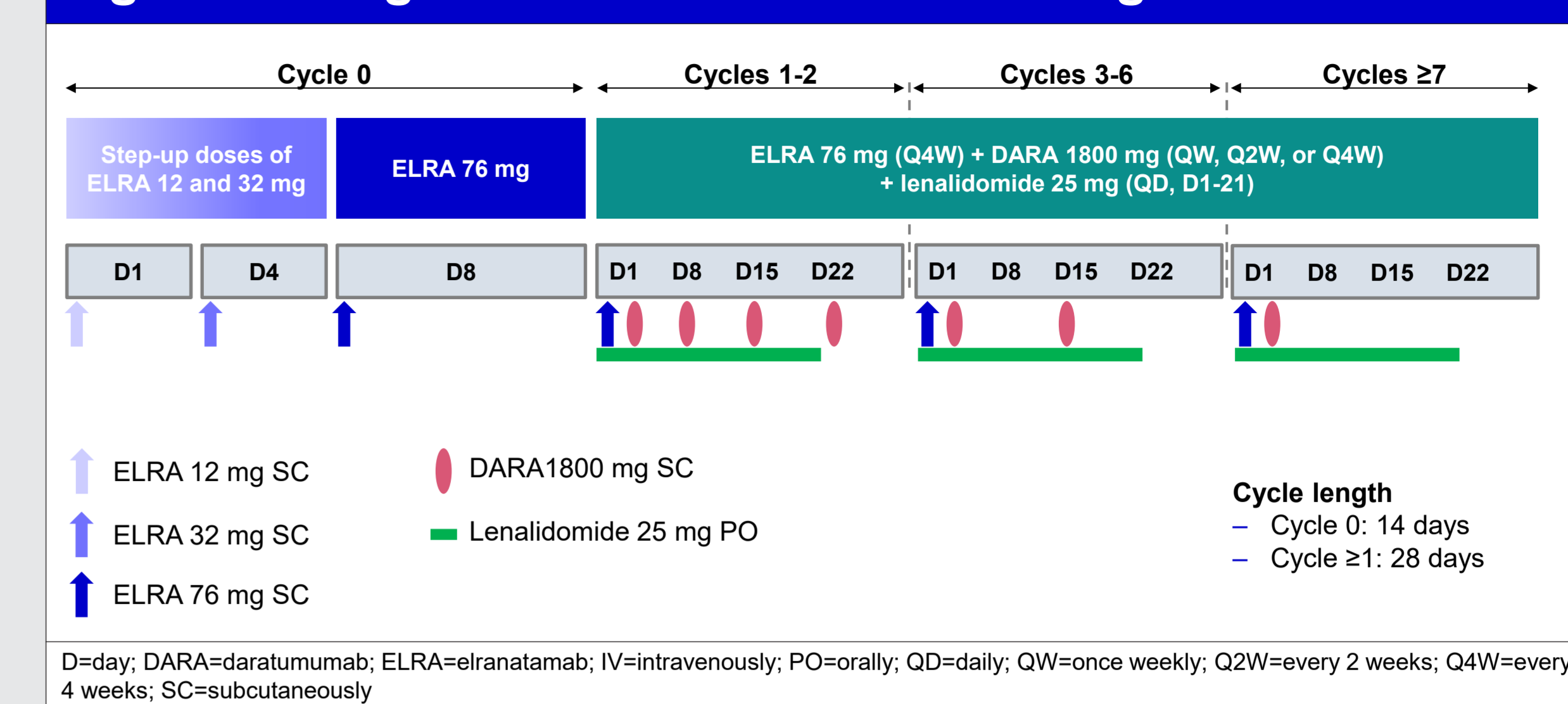
- Median time (range) to onset of any-grade and grade ≥3 infection was 40.0 (1-317) and 63.0 (4-321) days, respectively
- Overall, infections occurred early after treatment initiation (Figure 2) and tended to decrease over time in those still being followed up for AEs in each cycle

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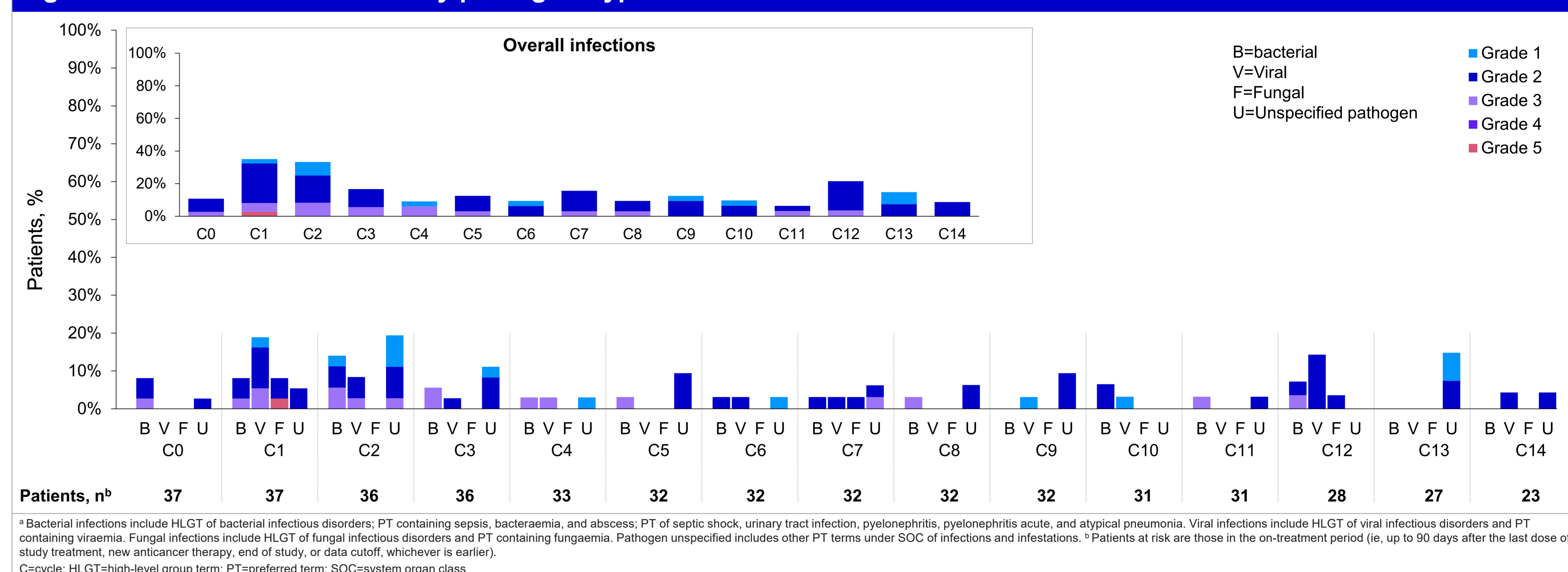
## Methods

- In dose level G (DLG), eligible patients had TI (age ≥65 or <65 years with comorbidities impacting the possibility of transplant) NDMM per International Myeloma Working Group criteria; Eastern Cooperative Oncology Group performance status ≤2; and adequate liver, renal, and bone marrow function
- DLG dosing schedule (Figure 1) is the recommended phase 3 dose (RP3D) for MagnetisMM-6
- Patients should receive antiviral, anti-*Pneumocystis jirovecii* pneumonia (PJP), antibacterial and antifungal prophylaxis as clinically indicated
- Immunoglobulin (Ig) replacement should be administered when functional (ie, excluding the M-spike in patients with IgG myeloma) IgG levels are <400 mg/dL
- Data cutoff was September 25, 2025
  - The median (range) follow-up was 13.7 (1.2-15.2) months

**Figure 1. MagnetisMM-6 Part 1 DLG dosing schedule**



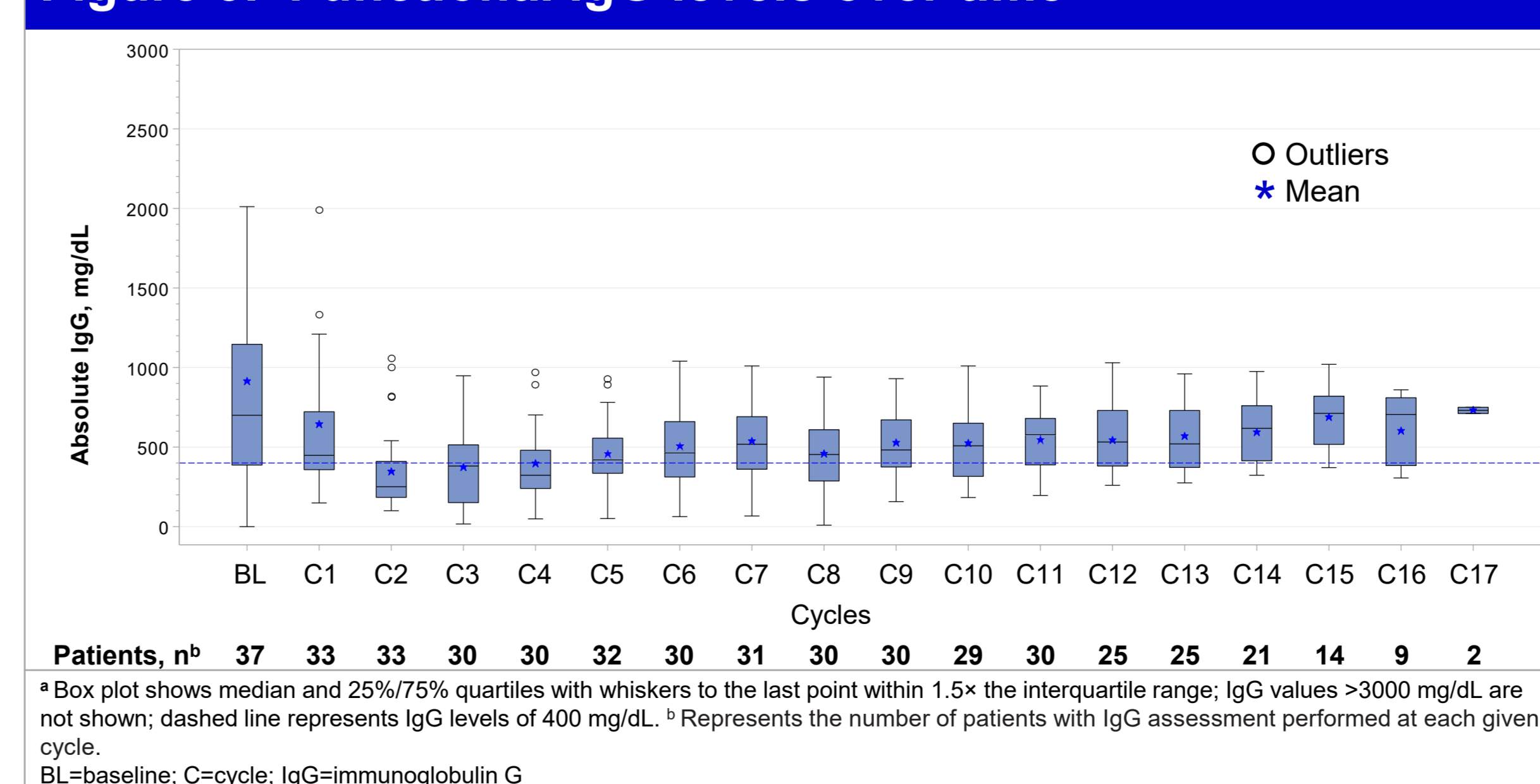
**Figure 2. Infections overall and by pathogen<sup>a</sup> type over time**



### SUPPORTING TREATMENTS

- Viral, PJP, fungal, and bacterial anti-infectious prophylaxis was given to 94.6%, 94.6%, 13.5%, and 13.5% of patients, respectively
- Overall, 83.8% of patients had ≥1 postbaseline IgG level <400 mg/dL and 91.9% received Ig replacement (Figure 3)
  - At baseline, 29.7% of patients already had functional IgG levels <400 mg/dL
  - In patients with functional IgG >400 mg/dL at baseline, the median (range) time to IgG <400 mg/dL prior to Ig replacement was 44.0 (14-73) days
- The median (range) time to the first Ig replacement administration was 52.5 (9-219) days

**Figure 3. Functional IgG levels over time<sup>a</sup>**



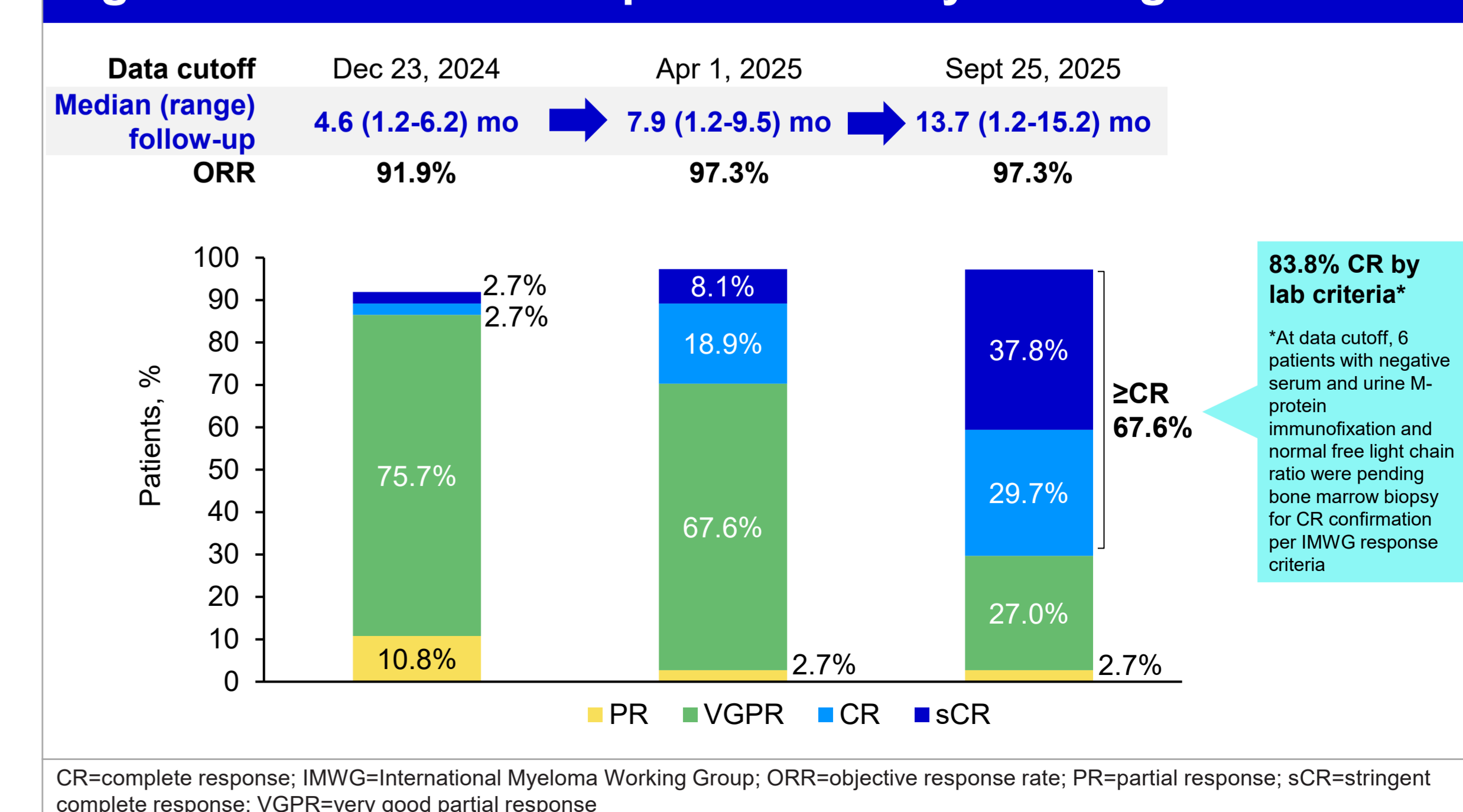
### NEUTROPENIA

- Grade 3/4 neutropenia and febrile neutropenia were reported in 78.4% and 8.1% of patients, respectively
  - The median (range) time to onset of the first grade ≥3 neutropenia event was 57.0 (3-407) days
- 73.0% of patients received granulocyte colony-stimulating factor (G-CSF)
  - The median (range) time to first G-CSF administration was 36.0 (3-169) days

### EFFICACY

- Responses continued to deepen with additional follow-up (Figure 4)

**Figure 4. Confirmed response rates by investigator**



### Supplementary Materials



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References: 1. Quach H, et al. J Clin Oncol 2025;43(16 suppl):7504. 2. Blimark CH, et al. Haematologica 2014;100:107-113.

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