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# Dostarlimab in Advanced/Recurrent Mismatch Repair Deficient/Microsatellite Instability High or Proficient/Stable Endometrial Cancer: The GARNET Study

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# Declaration of Interests

**Dr. Oaknin** reports consulting fees from AstraZeneca, Deciphera Pharmaceuticals, Genmab, GlaxoSmithKline, Immunogen, Mersana Therapeutics, MSD, Roche, and Sutro; institutional grants from Abbie Deutschland, Ability Pharmaceuticals, Advaxis Inc, Aeterna Zentaris, Amgen SA, Aprea Therapeutics AB, Bristol Meyers Squibb, Clovis Oncology Inc, Eisai Ltd, F. Hoffmann - La Roche Ltd, GlaxoSmithKline, Immunogen Inc, Merck Sharp & Dohme de Espana SA, Millennium Pharmaceuticals Inc, PharmaMar, and Regeneron Pharmaceuticals; and travel support from AstraZeneca, Clovis Oncology Inc, PharmaMar, and Roche.

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# Background

- EC is the most common gynaecologic malignancy in the US and EU<sup>1</sup>
- Treatment options are limited for patients with disease progression that occurs on or after first-line therapy, and overall survival is typically <1 year
- Dostarlimab is an anti-PD-1 monoclonal antibody
  - In the EU, dostarlimab is approved as a monotherapy in adult patients with recurrent or advanced dMMR/MSI-H EC that has progressed on or after treatment with a platinum-containing regimen
  - In the US, dostarlimab is approved as a monotherapy in adult patients with the following:
    - dMMR recurrent or advanced EC that has progressed on or after a platinum-containing regimen
    - a dMMR solid tumour that has progressed on or after prior treatment and who have no satisfactory alternative treatment options
- Today, we present GARNET Trial outcomes from the 2 endometrial cancer cohorts:
  - The cohort A1 data presented are the data that were used to support the EU approval in dMMR/MSI-H EC

dMMR, mismatch repair deficient; EC, endometrial cancer; MSI-H, microsatellite instability high; PD-1, programmed death 1.

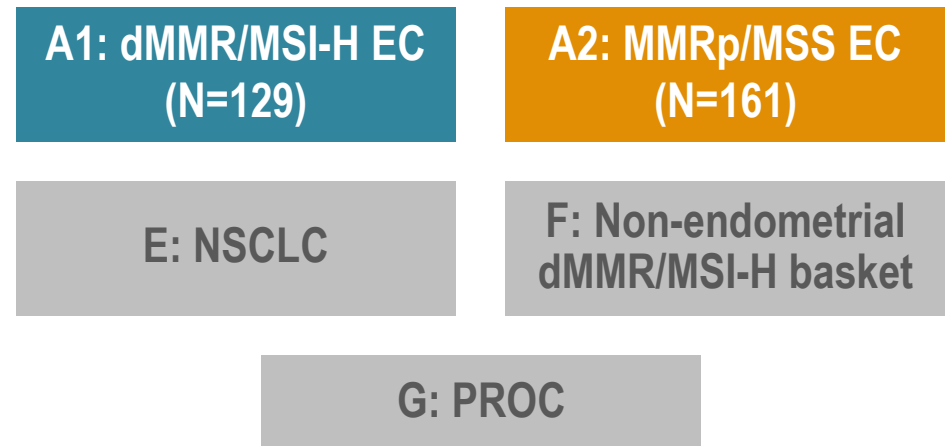
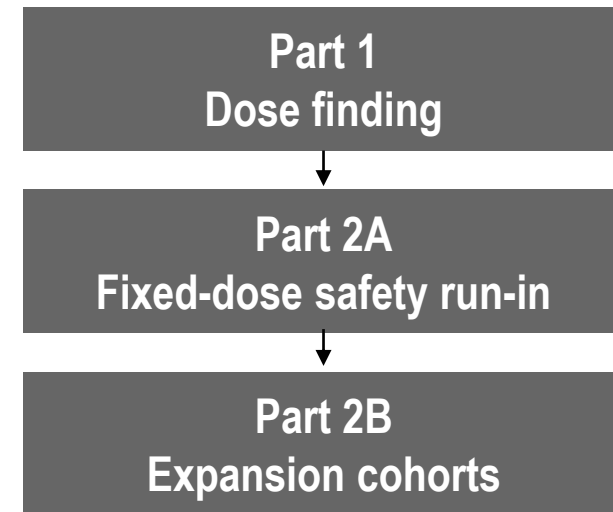
1. Siegel RL, et al. *CA Cancer J Clin.* 2016;66:7–30.

# GARNET Trial Design

- GARNET is a phase 1, single-arm study of dostarlimab monotherapy in multiple tumour types
- In part 2B, dostarlimab was dosed at the recommended therapeutic dose determined from parts 1 and 2A
  - 500 mg IV Q3W for 4 cycles, then 1000 mg Q6W until disease progression or discontinuation
- Primary endpoints were ORR and DOR
- Data cutoff date was March 1, 2020

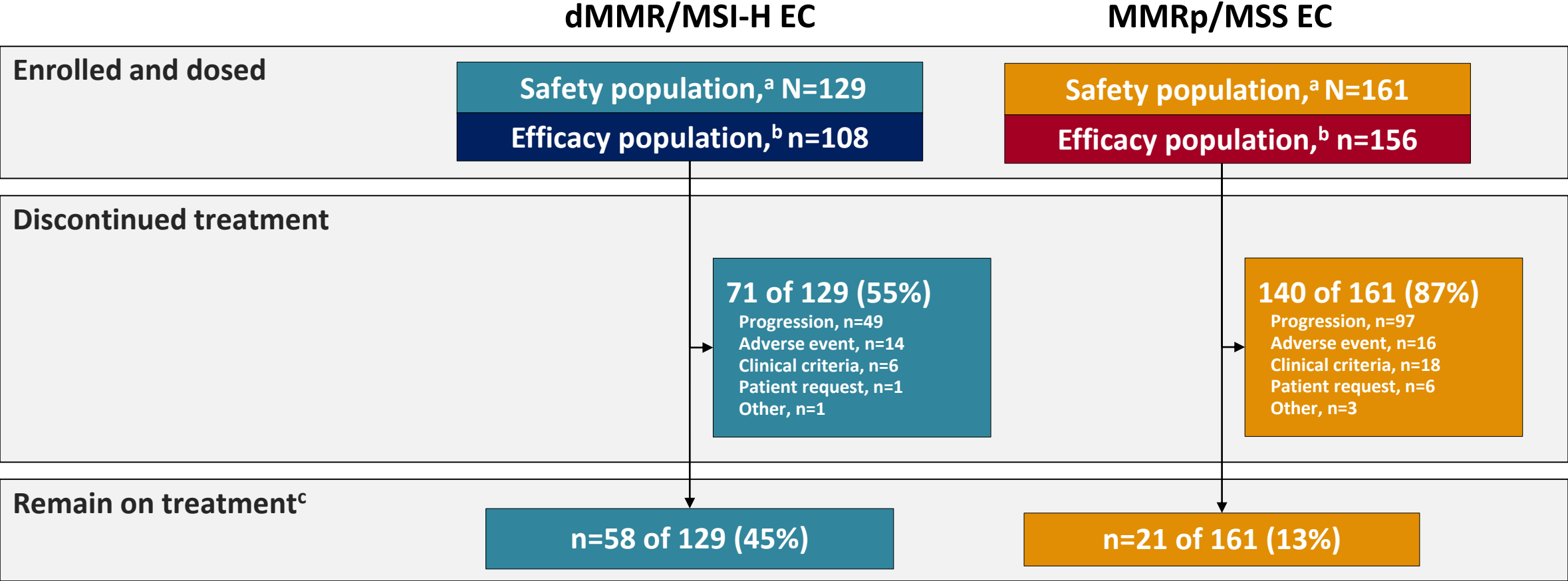
## Key inclusion criteria:

- Patients must have progression on or after platinum doublet therapy
- Patients must have received  $\leq 2$  prior lines of treatment for recurrent or advanced disease
- Patients must have measurable disease at baseline
- Patients must be anti-PD-(L)1 naive



dMMR, mismatch repair deficient; MMRp, mismatch repair proficient; MSI-H, microsatellite instability high; MSS, microsatellite stable; NSCLC, non-small cell lung cancer; PD-1, programmed death 1; PD-L1, programmed death ligand 1; PROC, platinum-resistant ovarian cancer.

# Enrolment and Outcomes



<sup>a</sup>Safety population includes all patients who received ≥1 dose of dostarlimab; <sup>b</sup>Efficacy population includes all patients with measurable disease at baseline and ≥24 weeks of follow-up and an additional 3 patients with <24 weeks of follow-up who had discontinued treatment prior to 24 weeks; <sup>c</sup>Data cutoff date: March 1, 2020.  
 dMMR, mismatch repair deficient; EC, endometrial cancer; MMRp, mismatch repair proficient; MSI-H, microsatellite instability high; MSS, microsatellite stable.

# Demographics and Baseline Characteristics

Characteristic	dMMR/MSI-H EC (n=108)	MMRp/MSS EC (n=156)
Age, median (IQR), years	64.5 (58.5–69.5)	64.5 (30–86)
FIGO stage at primary diagnosis, n (%)		
Stage I	41 (38.0)	46 (29.5)
Stage II	9 (8.3)	11 (7.1)
Stage III	38 (35.2)	43 (27.6)
Stage IV	20 (18.5)	55 (35.3)
Unknown	0	1 (0.6)
Histologic subtype, n (%)		
Grade 1 or 2 endometrioid carcinoma	71 (65.7)	35 (22.4)
Serous	5 (4.6)	59 (37.8)
Clear cell	1 (0.9)	10 (6.4)
Squamous	1 (0.9)	3 (1.9)
Undifferentiated	4 (3.7)	3 (1.9)
Carcinosarcoma	0	2 (1.3)
Mixed carcinoma	6 (5.6)	11 (7.1)
Type II EC, NOS	14 (13.0)	24 (15.4)
Adenocarcinoma	5 (4.6)	9 (5.8)
Unknown	1 (0.9)	0
Prior lines of therapy, n (%) <sup>a</sup>		
1	69 (63.9)	72 (46.2)
2	27 (25.0)	67 (42.9)
≥3	12 (11.1)	17 (10.9)
Prior radiation, n (%)	77 (71.3)	95 (60.9)

<sup>a</sup>Includes lines of the therapy in the adjuvant setting. dMMR, mismatch repair deficient; EC, endometrial cancer; FIGO, International Federation of Gynaecology and Obstetrics; IQR, interquartile range; MMRp, mismatch repair proficient; MSI-H, microsatellite instability high; MSS, microsatellite stable; NOS, not otherwise specified.

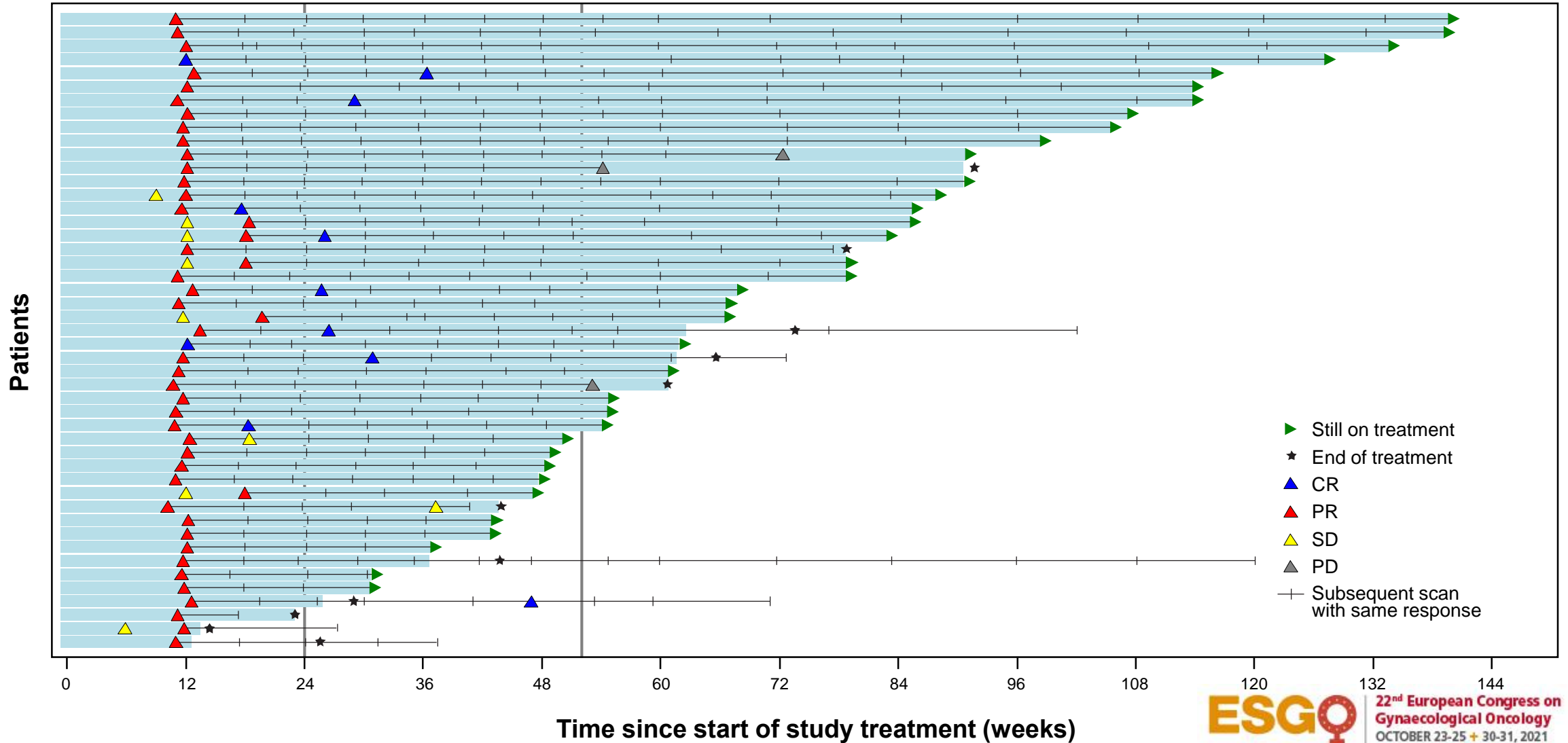
# Primary Endpoint Analysis in the Efficacy-Evaluable Population\*

Parameter	Cohort A1			Cohort A2		
	dMMR (n=106)	MSI-H and MMRunk (n=2)	Overall (n=108)	MMRp (n=142)	MSS and MMRunk (n=14)	Overall (n=156)
Median follow-up, mo	13.8	11.1	16.3	11.5	10.4	11.5
ORR, n (%) (95% CI)	46 (43.4%) (33.8–53.4)	1 (50.0%) (1.3–98.7)	47 (43.5%) (34.0–53.4)	19 (13.4%) (8.3–20.1)	3 (21.4%) (4.7–50.8)	22 (14.1%) (9.1–20.6)
Best confirmed response, n (%)						
CR	11 (10.4)	0	11 (10.2)	3 (2.1)	0	3 (1.9)
PR	35 (33.0)	1 (50.0)	36 (33.3)	16 (11.3)	3 (21.4)	19 (12.2)
SD	13 (12.3)	0	13 (12.0)	31 (21.8)	1 (7.1)	32 (20.5)
PD	39 (36.8)	0	39 (36.1)	77 (54.2)	8 (57.1)	85 (54.5)
NE	8 (7.5)	1 (50.0)	9 (8.3)	15 (10.6)	2 (14.3)	17 (10.9)
DCR, n (%)	59 (55.7)	1 (50.0)	60 (55.6)	50 (35.2)	4 (28.6)	54 (34.6)
Response ongoing	41 of 46 (89.1%)	1 of 1 (100%)	42 of 47 (89.4%)	12 of 19 (63.2%)	2 of 3 (66.7%)	14 of 22 (63.6%)
Median DOR	Not reached	Not reached	Not reached	Not reached	Not reached	Not reached

\*ORR was determined by blinded independent central review using REECIST v1.1; CR, complete response; DCR, disease control rate; dMMR, mismatch repair deficient; DOR, duration of response; IQR, interquartile range; K-M, Kaplan-Meier; MMRp, mismatch repair proficient; MMRunk, mismatch repair unknown; mo, month; MSI-H, microsatellite instability-high; MSS, microsatellite stable; NE, not evaluable; ORR, objective response rate; PD, progressive disease; PR, partial response; SD, stable disease.

# Duration of Treatment: dMMR/MSI-H EC

89.3% of responders remained in response as of the data cutoff date (March 1, 2020)  
Median follow-up was 16.3 months

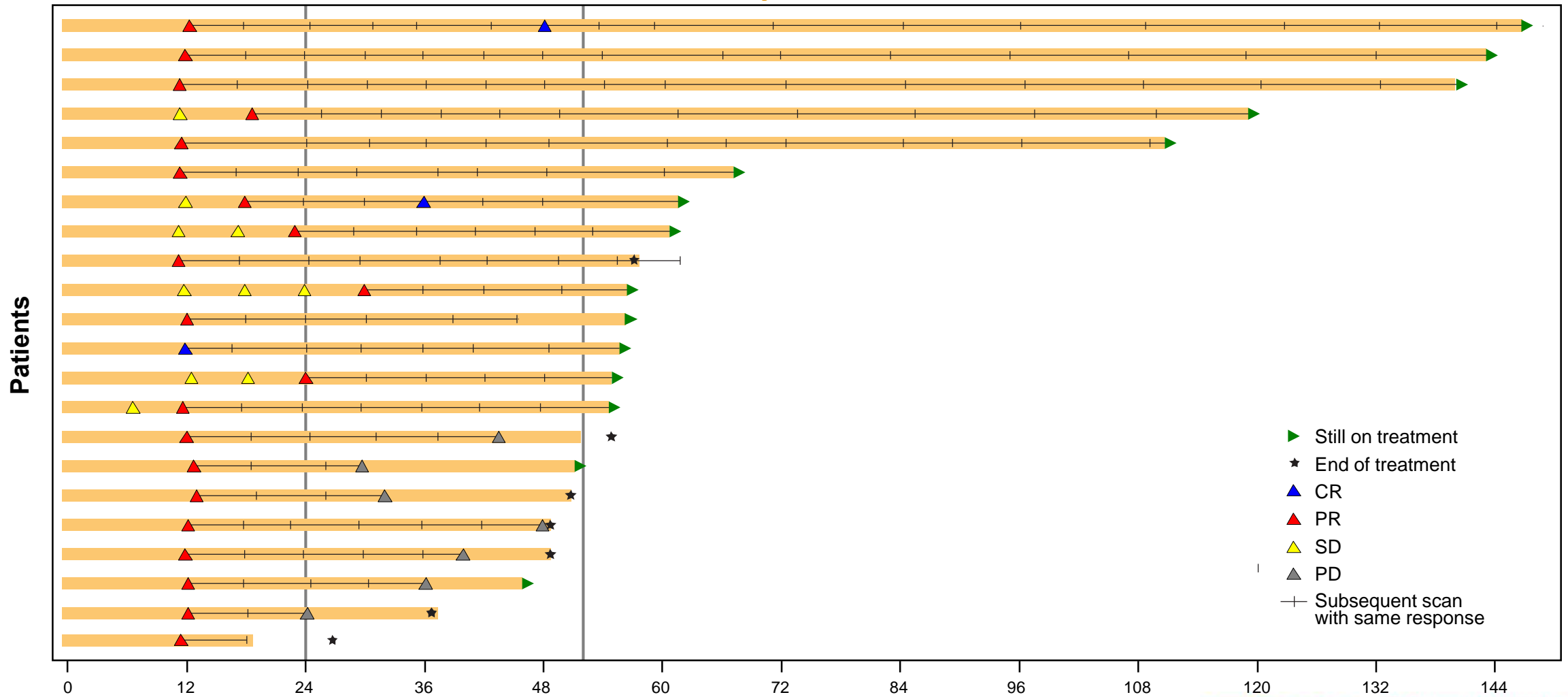


CR, complete response; dMMR, mismatch repair deficient; EC, endometrial cancer; MSI-H, microsatellite instability-high; PD, progressive disease; PR, partial response; SD, stable disease.



# Duration of Treatment: MMRp/MSS EC

63.6% of responders remained in response as of the data cutoff date (March 1, 2020)  
Median follow-up was 11.5 months



- ▶ Still on treatment
- ★ End of treatment
- ▲ CR
- ▲ PR
- ▲ SD
- ▲ PD
- + Subsequent scan with same response

Time since start of study treatment (weeks)

CR, complete response; EC, endometrial cancer; MMRp, mismatch repair proficient; MSS, microsatellite stable; PD, progressive disease; PR, partial response; SD, stable disease.



# Safety Overview

- Dostarlimab treatment was tolerable
  - Only 5.5% of patients discontinued due to a TRAE
  - No treatment related deaths were reported

Parameter, n (%)	dMMR/MSI-H EC (n=129)	MMRp/MSS EC (n=161)	Overall (N=290)
Any-grade TEAE	123 (95.3)	161 (100)	284 (97.9)
Grade ≥3 TEAE	62 (48.1)	90 (55.9)	152 (52.4)
Any-grade TRAE	82 (63.6)	114 (70.8)	196 (67.6)
Grade ≥3 TRAE	17 (13.2)	31 (19.3)	48 (16.6)
Treatment-related SAE	12 (9.3)	13 (8.1)	25 (8.6)
Any TRAE leading to discontinuation	5 (3.9)	11 (6.8)	16 (5.5)
TRAE leading to death	0	0	0

dMMR, mismatch repair deficient; EC, endometrial cancer; MMRp, mismatch repair proficient; MSI-H, microsatellite instability-high; MSS, microsatellite stable; SAE, serious adverse event; TEAE, treatment-emergent adverse event; TRAE, treatment-related adverse event.

# Treatment-Related Adverse Events

Parameter, n (%)	MMRp/MSS EC (n=161)	MMRp/MSS EC (n=161)	Overall (N=290)
<b>Most common any-grade TRAE (≥10% cutoff)</b>			
Fatigue	17 (13.2)	34 (21.1)	51 (17.6)
Diarrhoea	21 (16.3)	19 (11.8)	40 (13.8)
Nausea	16 (12.4)	24 (14.9)	40 (13.8)
Asthenia	18 (14.0)	13 (8.1)	31 (10.7)
<b>Most common grade ≥3 TRAE (≥1.4% cutoff)</b>			
Anaemia	5 (3.9)	3 (1.9)	8 (2.8)
Alanine aminotransferase increased	2 (1.6)	2 (1.2)	4 (1.4)
Diarrhoea	2 (1.6)	2 (1.2)	4 (1.4)
Fatigue	0	4 (2.5)	4 (1.4)
Amylase increased	1 (0.8)	3 (1.9)	4 (1.4)
Lipase increased	3 (2.3)	1 (0.6)	4 (1.4)

dMMR, mismatch repair deficient; EC, endometrial cancer; MMRp, mismatch repair proficient; MSI-H, microsatellite instability-high; MSS, microsatellite stable; TRAE, treatment-related adverse event.

# Immune-Related Treatment-Related Adverse Events<sup>a</sup>

Parameter, n (%)	dMMR/MSI-H EC (n=129)	MMRp/MSS EC (n=161)	Overall (N=290)
<b>Most common irTRAEs (≥1.4% cutoff)</b>			
Hypothyroidism	8 (6.2)	12 (7.5)	20 (6.9)
Diarrhoea	6 (4.7)	5 (3.1)	11 (3.8)
Amylase increased	3 (2.3)	4 (2.5)	7 (2.4)
Aspartate transaminase increased	2 (1.6)	4 (2.5)	6 (2.1)
Alanine aminotransferase increased	3 (2.3)	2 (1.2)	5 (1.7)
Lipase increased	4 (3.1)	1 (0.6)	5 (1.7)
Hyperthyroidism	3 (2.3)	2 (1.2)	5 (1.7)
Colitis	3 (2.3)	1 (0.6)	4 (1.4)
Hyperglycaemia	0	4 (2.8)	4 (1.4)
<b>Most common grade ≥3 irTRAE (≥1.0% cutoff)</b>			
Alanine aminotransferase increased	2 (1.6)	2 (1.2)	4 (1.4)
Diarrhoea	2 (1.6)	2 (1.2)	4 (1.4)
Amylase increased	1 (0.8)	3 (1.9)	4 (1.4)
Aspartate transaminase increased	0	3 (1.9)	3 (1.0)
Hyperglycaemia	0	3 (1.9)	3 (1.0)
Lipase increased	3 (2.3)	1 (0.6)	4 (1.4)

<sup>a</sup>Grade 2 or higher event from a prespecified list of preferred terms.

dMMR, mismatch repair deficient; EC, endometrial cancer; irTRAE, immune-related treatment-related adverse event; MMRp, mismatch repair proficient; MSI-H, microsatellite instability-high; MSS, microsatellite stable.

# Conclusions

- Dostarlimab demonstrated an ORR of 43.5% in dMMR/MSI-H EC, and 14.1% in MMRp/MSS EC
  - dMMR/MSI-H status was associated with a higher response rate
  - Responses were durable both dMMR/MSI-H and MMRp/MSS advanced/recurrent EC
- Dostarlimab demonstrated a notable disease control rate (34.6%; 1.9% complete response, 12.2% partial response, 20.5% stable disease) in patients with MMRp/MSS EC
  - The A2 cohort was composed of a higher percentage of patients with non-endometrioid ECs, which is historically associated with a worse prognosis compared with endometrioid EC and limited treatment options
- Safety was consistent with prior experience with dostarlimab
  - No new safety concerns emerged
  - There was low incidence of grade  $\geq 3$  TRAES
  - No deaths were attributed to dostarlimab
- Dostarlimab is being evaluated in first-line EC in the RUBY clinical trial (NCT03981796) in combination with standard-of-care chemotherapy

dMMR, mismatch repair deficient; EC, endometrial cancer; MMRp, mismatch repair proficient; MSI-H, microsatellite instability-high; MSS, microsatellite stable.

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## GARNET Cohort A1 and A2 Investigators

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# THANK YOU!

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