



Antitumor Activity and Safety of Dostarlimab Therapy in Patients with Endometrial Cancer by Age Subgroups: a Post Hoc Analysis from the GARNET Trial

Background Although median age of diagnosis of endometrial cancer (EC) is 63 years, most deaths from EC occur in patients older than 65 years, with a median age at death of 70 years¹ • Older patients may have poor tolerance of the toxicity from conventional standard-of-care chemotherapy Better tolerated and more effective regimens remain an unmet need for older patients with EC Dostarlimab is a programmed death receptor 1 (PD-1)– blocking antibody that is approved in the US as a monotherapy in adult patients with: Mismatch repair deficient (dMMR) recurrent or advanced EC that has progressed on or following prior treatment with a platinum-containing regimen² – dMMR recurrent or advanced solid tumors that have progressed on or following prior treatment and who have no satisfactory alternative treatment options² In the EU, dostarlimab is approved as a monotherapy in adult patients with recurrent or advanced dMMR/microsatellite instability-high (MSI-H) EC that has progressed on or after treatment with a platinum-containing regimen³ Conclusions Dostarlimab's antitumor activity and safety for patients with dMMR/MSI-H EC and mismatch repair proficient (MMRp)/microsatellite stable (MSS) EC were generally comparable across age groups Objective response rates were similar across age groups for patients in both the dMMR/MSI-H EC and the MMRp/ MSS EC cohorts Incidences of grade ≥ 3 treatment-related adverse events (TRAEs) were low across all subgroups

- Older patients with advanced/recurrent dMMR/MSI-H EC experienced broadly similar treatment benefits as younger patients
- Dostarlimab can be used safely in older patients with advanced/recurrent dMMR/MSI-H EC



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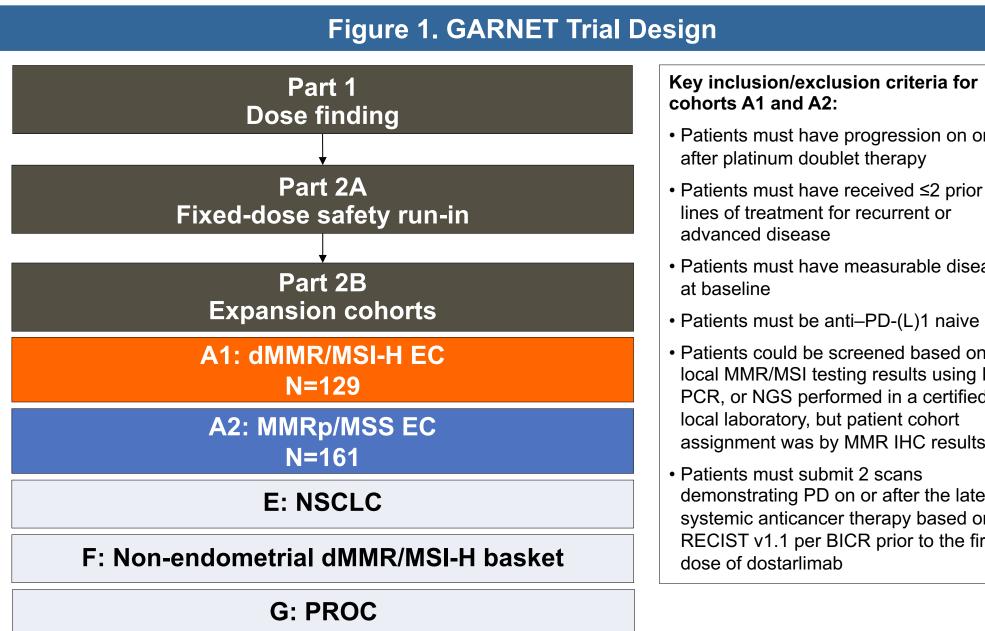
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Objective

 To report on a post hoc analysis of the antitumor activity and safety of dostarlimab by age subgroup in patients with dMMR/MSI-H EC and MMRp/MSS EC

Methods

• GARNET is a phase 1, multicenter, open-label, single-arm study of dostarlimab monotherapy in patients with advanced or recurrent solid tumors (Figure 1)



Patients must have progression on or after platinum doublet therapy Patients must have received ≤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
- Patients could be screened based on local MMR/MSI testing results using IHC, PCR, or NGS performed in a certified local laboratory, but patient cohort assignment was by MMR IHC results
- Patients must submit 2 scans demonstrating PD on or after the latest systemic anticancer therapy based on RECIST v1.1 per BICR prior to the first dose of dostarlimab

BICR, blinded independent central review; dMMR, mismatch repair deficient; EC, endometrial cancer; IHC, immunohistochemistry; MMR, mismatch repair; MMRp, mismatch repair proficient stability; MSI-H, microsatellite instability-high; MSS, microsatellite stable; NGS, next-generation sequencing; NSCLC, non-small cell lung cancer; PCR, polymerase chain reaction; PD, progressive disease; PD-(L)1, programmed death (ligand) 1; PROC, platinum-resistant ovarian cancer; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1.

- MMR status was determined by local immunohistochemistry
- Patients received 500 mg of intravenous dostarlimab every 3 weeks for 4 cycles, followed by 1000 mg every 6 weeks until discontinuation (Figure 2)

		Figur	e 2. GAR	NET Stu	dy D	osing So	chedule					
	500 mg Q3W (1 cycle = 3 weeks)					1000 mg Q6W until disease progression or unacceptable toxicity (1 cycle = 6 weeks)						
Cycle	1	2	3	4		5	6	7	Continue			
Week	1	4	7	10		13	19	25	dosing Q6W			
Q3W, every 3 weeks	; Q6W, every 6 wee	ks.	•	•	•	•	•		:			

- The primary endpoints were evaluation of antitumor activity (in terms of objective response rate and duration of response by Response Evaluation Criteria in Solid Tumors version 1.1 per blinded independent central review), safety, and tolerability
- The data cutoff date was March 1, 2020

Results

MSS, microsatellite stable.

- 129 patients with dMMR/MSI-H EC and 161 patients with MMRp/MSS EC were enrolled and treated as of the data cutoff date of March 1, 2020; these patients constitute the safety population of cohorts A1 and A2, respectively (Table 1)
- The efficacy population included those patients with ≥ 1 measurable lesion at baseline and the opportunity for ≥24 weeks of follow-up as of the data cutoff date - 105 patients with dMMR/MSI-H EC and 156 patients with MMRp/MSS EC met these criteria

		dMMR/MSI-H EC N=129	;	MMRp/MSS EC N=161		
Characteristic	<65 years n=66	≥65 years to <75 years n=51	≥75 years n=12	<65 years n=70	≥65 years to <75 years n=72	≥75 years n=19
Age, median (range), years	58.5 (39–64)	68.0 (65–74)	76.0 (75–80)	59.0 (30–64)	68.0 (65–74)	78.0 (75–86)
FIGO stage at diagnosis, n (%)ª						
Stage I or II	26 (39.4)	28 (54.9)	3 (25.0)	17 (24.3)	34 (47.2)	8 (42.1)
Stage III or IV	40 (60.6)	23 (45.1)	9 (75.0)	53 (75.7)	38 (52.8)	10 (52.6)
Histology, n (%)				-		
Endometrioid carcinoma type I (grade 1 or 2)	44 (66.7)	33 (64.7)	8 (66.7)	23 (32.9)	11 (15.3)	3 (15.8)
Endometrial carcinoma type II	22 (33.3)	17 (33.3)	4 (33.3)	47 (67.1)	61 (84.7)	16 (84.2)
Serous	2 (3.0)	2 (3.9)	1 (8.3)	14 (20.0)	35 (48.6)	10 (52.6)
Clear cell	1 (1.5)	0	0	6 (8.6)	4 (5.6)	0
Squamous carcinoma	0	1 (2.0)	0	0	3 (4.2)	0
Undifferentiated	2 (3.0)	3 (5.9)	0	4 (5.7)	0	0
Carcinosarcoma	0	0	0	1 (1.4)	1 (1.4)	0
Mixed carcinoma	5 (7.6)	2 (3.9)	0	5 (7.1)	5 (6.9)	2 (10.5)
Unspecified	9 (13.6)	6 (11.8)	2 (16.7)	12 (17.1)	9 (12.5)	4 (21.1)
Other ^b	3 (4.5)	3 (5.9)	1 (8.3)	5 (7.1)	4 (5.6)	0
Unknown	0	1 (2.0)	0	0	0	0

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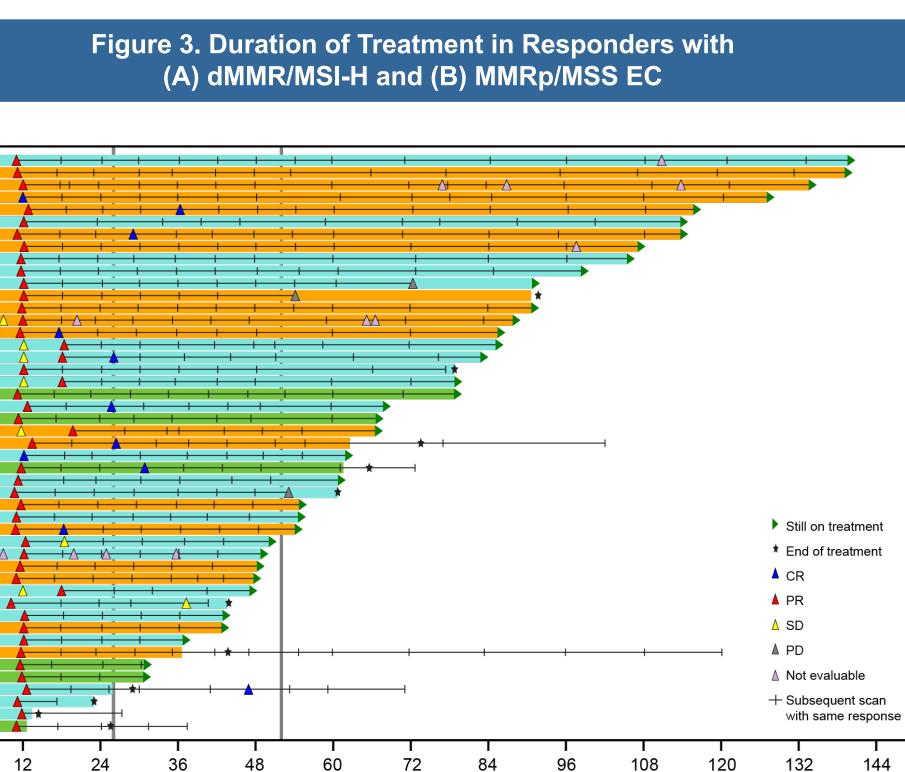
Results *(cont'd)*

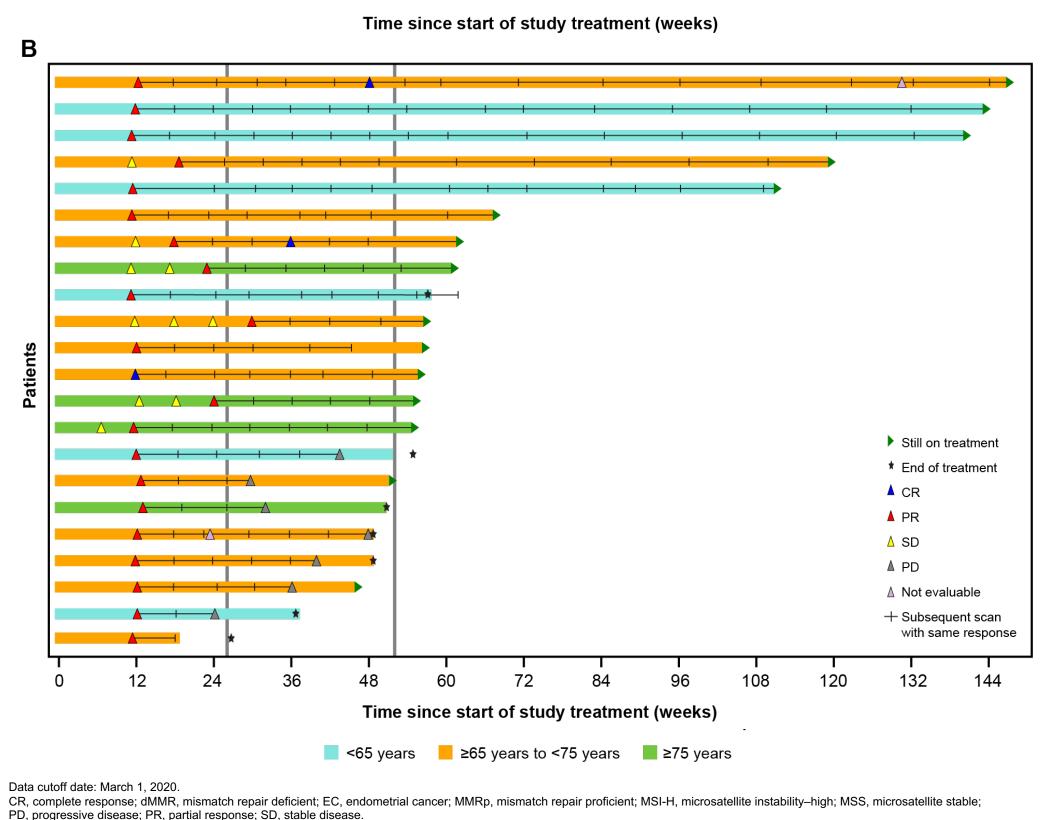
• The objective response rate was similar across age groups for patients in both the dMMR/MSI-H EC and the MMRp/MSS EC cohorts (Table 2)

		dMMR/MSI-H EC N=105	:	MMRp/MSS EC N=156			
Variable	<65 years n=53	≥65 years to <75 years n=41	≥75 years n=11	<65 years n=66	≥65 years to <75 years n=71	≥75 years n=19	
Median follow-up time, mo	13.7	19.2	14.5	27.8	13.8	11.2	
Confirmed responses, n	24	18	5	6	12	4	
ORR, % (95% CI)ª	45.3 (31.6–59.6)	43.9 (28.5–60.3)	45.5 (16.7–76.6)	9.1 (3.4–18.7)	16.9 (9.0–27.7)	21.1 (6.1–45.6)	
CR, n (%)	6 (11.3)	3 (7.3)	2 (18.2)	0	1 (1.4)	2 (10.5)	
PR, n (%)	18 (34.0)	15 (36.6)	3 (27.3)	6 (9.1)	11 (15.5)	2 (10.5)	
SD, n (%)	8 (15.1)	3 (7.3)	2 (18.2)	10 (15.2)	16 (22.5)	6 (31.6)	
PD, n (%)	16 (30.2)	19 (46.3)	4 (36.4)	40 (60.6)	37 (52.1)	8 (42.1)	
NE, n (%)	5 (9.4)	1 (2.4)	0	10 (15.2)	6 (8.5)	1 (5.3)	
Disease control rate, % (95% CI) ^b	60.4 (46.0–73.5)	51.2 (35.1–67.1)	63.6 (30.8–89.1)	24.2 (14.5–36.4)	39.4 (28.0–51.7)	52.6 (28.9–75.6)	
Response ongoing, n (%)	21 (87.5)	17 (94.4)	4 (80.0)	4 (66.7)	7 (58.3)	3 (75.0)	
Duration of response, median (range), mo	NR (2.79+ to 28.09+)	NR (4.34+ to 27.66+)	NR (2.63 to 13.47+)	NR (2.79 to 27.89+)	NR (1.54 to 30.36+)	NR (5.55 to 8.48+)	
Kaplan-Meier estimated probabil	ity of remaining	in response, %					
At 6 mo	100.0	100.0	80.0	83.3	81.8	75.0	
At 12 mo	84.6	100.0	80.0	66.7	56.1	NR	
At 18 mo	74.0	90.0	NR	66.7	56.1	NR	

CR, complete response; dMMR, mismatch repair deficient; EC, endometrial cancer; MMRp, mismatch repair proficient; mo, months; MSI-H, microsatellite instability-high; MSS, microsatellite stable; NE, not evaluable; NR, not reached; ORR, objective response rate; PD, progressive disease; PR, partial response; SD, stable disease; wk, week

• The duration of response among responders was long (not reached for all subgroups), and the majority of responders remained in response as of the data cutoff date (Figure 3)





Dostarlimab was well tolerated, with an AE profile characteristic of anti–PD-1s (Table 3)

Parameter, n (? **Any-grade TEAE** Grade ≥3 TEAE Any-grade TRAE Grade ≥3 TRAE Treatment-relate Any TRAE leadin discontinuatior

> TRAE leading to dMMR, mismatch repair de TEAE, treatment-emergent adverse event; TRAE, treatment-related adverse event.

		dMMR/MSI-H EC N=129		MMRp/MSS EC N=161			
arameter, n (%)	<65 years n=66	≥65 years to <75 years n=51	≥75 years n=12	<65 years n=70	≥65 years to <75 years n=72	≥75 years n=19	
lost common any-grade TRAE	seen in more tha	in 15 patients, n ((%)				
Fatigue	5 (7.6)	11 (21.6)	1 (8.3)	12 (17.1)	19 (26.4)	3 (15.8)	
Diarrhea	13 (19.7)	7 (13.7)	1 (8.3)	6 (8.6)	11 (15.3)	2 (10.5)	
Nausea	7 (10.6)	6 (11.8)	3 (25.0)	9 (12.9)	14 (19.4)	1 (5.3)	
Asthenia	11 (16.7)	6 (11.8)	1 (8.3)	6 (8.6)	7 (9.7)	0	
Anemia	6 (9.1)	3 (5.9)	0	7 (10.0)	10 (13.9)	1 (5.3)	
Hypothyroidism	6 (9.1)	2 (3.9)	1 (8.3)	7 (10.0)	7 (9.7)	2 (10.5)	
Vomiting	2 (3.0)	3 (5.9)	0	6 (8.6)	9 (12.5)	2 (10.5)	
Arthralgia	5 (7.6)	5 (9.8)	1 (8.3)	3 (4.3)	5 (6.9)	2 (10.5)	
Rash	3 (4.5)	4 (7.8)	0	2 (2.9)	10 (13.9)	2 (10.5)	
AST increased	2 (3.0)	2 (3.9)	1 (8.3)	6 (8.6)	7 (9.7)	2 (10.5)	
ALT increased	2 (3.0)	2 (3.9)	1 (8.3)	6 (8.6)	6 (8.3)	1 (5.3)	
Decreased appetite	2 (3.0)	2 (3.9)	1 (8.3)	8 (11.4)	3 (4.2)	2 (10.5)	
Pruritus	3 (4.5)	6 (11.8)	0	1 (1.4)	5 (6.9)	2 (10.5)	
Amylase increased	2 (3.0)	2 (3.9)	0	3 (4.3)	6 (8.3)	2 (10.5)	
rade ≥3 TRAEs seen in more th	nan 2 patients, n	(%) ^a					
Anemia	5 (7.6)	0	0	1 (1.4)	2 (2.8)	0	
Amylase increased	0	1 (2.0)	0	0	3 (4.2)	0	
ALT increased	0	2 (3.9)	0	1 (1.4)	1 (1.4)	0	
Diarrhea	1 (1.5)	1 (2.0)	0	0	2 (2.8)	0	
Fatigue	0	0	0	2 (2.9)	2 (2.8)	0	
Lipase increased	2 (3.0)	1 (2.0)	0	0	1 (1.4)	0	
AST increased	0	0	0	1 (1.4)	2 (2.8)	0	
Hyperglycemia	0	0	0	2 (2.9)	1 (1.4)	0	
Colitis	2 (3.0)	0	0	0	0	0	
Constipation	0	1 (2.0)	0	0	1 (1.4)	0	
Hypertension	0	1 (2.0)	0	0	1 (1.4)	0	
Nausea	0	0	0	1 (1.4)	1 (1.4)	0	
Pulmonary embolism	0	1 (2.0)	0	1 (1.4)	0	0	
Transaminase increased	0	1 (2.0)	1 (8.3)	0	0	0	

References Accessed January 21, 2022. Conflicts of Interest GlaxoSmithKline.

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Table 3. Safety Summary									
		dMMR/MSI-H EC N=129		MMRp/MSS EC N=161					
)	<65 years n=66	≥65 years to <75 years n=51	≥75 years n=12	<65 years n=70	≥65 years to <75 years n=72	≥75 years n=19			
	63 (95.5)	49 (96.1)	11 (91.7)	70 (100)	72 (100)	19 (100)			
	27 (40.9)	28 (54.9)	7 (58.3)	43 (61.4)	41 (56.9)	6 (31.6)			
	43 (65.2)	34 (66.7)	5 (41.7)	50 (71.4)	53 (73.6)	11 (57.9)			
	9 (13.6)	7 (13.7)	1 (8.3)	16 (22.9)	14 (19.4)	1 (5.3)			
d SAE	6 (9.1)	6 (11.8)	0	8 (11.4)	5 (6.9)	0			
ng to	1 (1.5)	3 (5.9)	1 (8.3)	5 (7.1)	6 (8.3)	0			
death	0	0	0	0	0	0			

• Few grade ≥3 TRAEs occurred, and these events were generally similar between age groups - Patients aged ≥75 years did not seem to have an increased incidence of grade ≥3 TRAEs compared with younger age groups (Table 4)

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3. European Medicines Agency. Jemperli. https://www.ema.europa.eu/en/medicines/human/EPAR/jemperli. Accessed February 1, 2022.

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