

# Treatment options for advanced / recurrent EC patients : Insights from RUBY trials and Dostarlimab

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# 치료 차수에 상관없이 모든 dMMR 자궁내막암에 급여 가능한 면역치료제, 젬퍼리 1-7

Jemperli  
(dostarlimab) Injection 500 mg

## ❖ 허가사항

### 1차 치료 (젬퍼리+카보플라틴+파클리타셀 병용요법):

- ▶ 새로 진단된 진행성 또는 재발성 자궁내막암<sup>1</sup>이 있는 성인환자의 치료<sup>2</sup>

### 2차 치료 (젬퍼리 단독요법):

- ▶ 이전 백금기반 전신 화학요법의 치료 종이거나 치료 후 진행을 나타낸 재발성 또는 진행성 불일치 복구결함(mismatch repair deficient, dMMR)/고빈도 현미부수체 불안정(microsatellite instability-high, MSI-H) 자궁내막암이 있는 성인 환자의 치료<sup>2</sup>

References. 식품의약품안전처. 젬퍼리주 의약품상세정보.

## ❖ 급여사항



투여 단계 | 1차 (first line)

항암 요법 | **Dostarlimab** + paclitaxel + carboplatin

투여 대상 | **진행성(FIGO stage III이상) 또는 재발성 자궁내막암**으로 다음을 모두 만족하는 경우

- ① dMMR/MSI-H인 자궁내막암
- ② 진행성 자궁내막암 중 FIGO Stage IIIA-IIIC1의 경우는 평가 혹은 측정 가능한 병변이 존재  
(단, 병기 IIIC1 진행성 암육종, 장액성, 투명세포, 혼합형(암육종, 장액성, 투명세포 ≥10% 이상),  
또는 병기 IIIC2-IV 자궁내막암의 경우는 평가 혹은 측정 가능한 병변 유무 상관 없음)

※ 선행화학요법/수술후보조요법 치료 종료 후 6개월 이후 재발한 경우 포함

※ 이전 PD-1 inhibitor, PD-L1 inhibitor, PD-L2 inhibitor 치료를 받지 않은 경우에 한함

급여 기간 | 1년까지(단, 질병진행시 중단) 급여인정 하되, 1년 내에 최적의 투여기간에 대한  
임상결과 미 발표 시 자동 연장하여 최대 2년으로 함.

References. 1. 보건복지부. 고시 제2025-210호. 2. 건강보험심사평가원 공고 제2023-279호. 3. 건강보험심사평가원. 제2025-133호. 암환자에게 처방·투여하는 약제에 대한 공고 개정안내. 개정일: 2025년 6월 5일.

# EC Overview



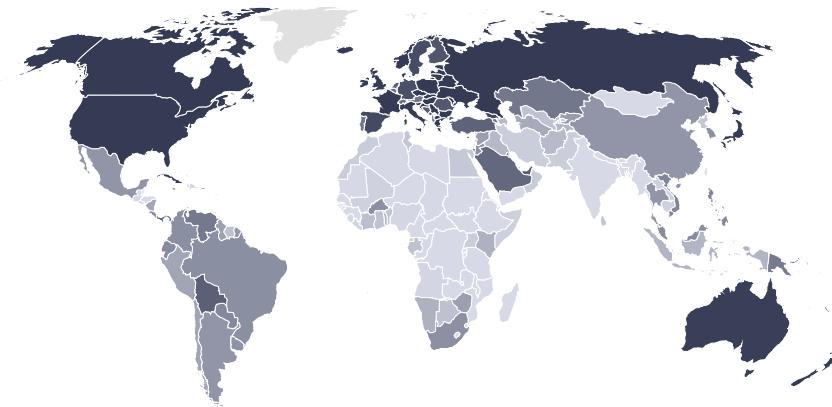
# Incidence and mortality rates of endometrial cancer are rapidly increasing worldwide<sup>1,2</sup>

Jemperli  
(dostarlimab) Injection 500 mg

Incidence of EC has been rising with aging and increased obesity of the population, while mortality rates have been increasing by **1.9%** per year on average<sup>3,4</sup>

## Incidence and mortality rates worldwide

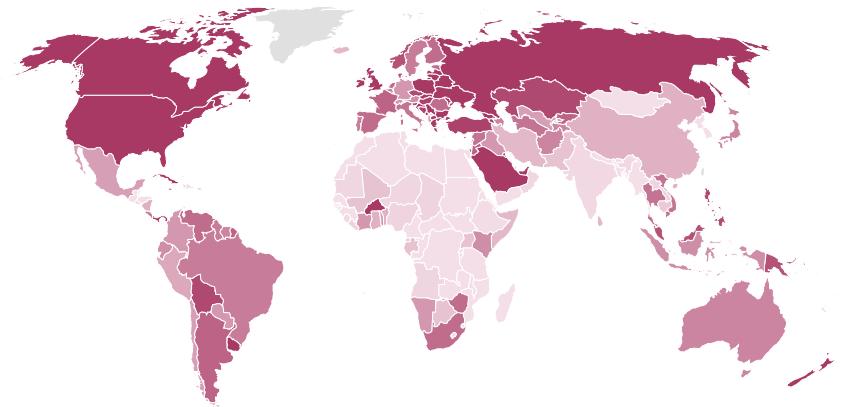
Estimated age-standardised incidence rates (World) in 2020, corpus uteri, females, all ages<sup>5\*</sup>



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ASR (World) per 100,000  
<2.6       $\geq 14.2$

Estimated age-standardised mortality rates (World) in 2020, corpus uteri, females, all ages<sup>5\*</sup>



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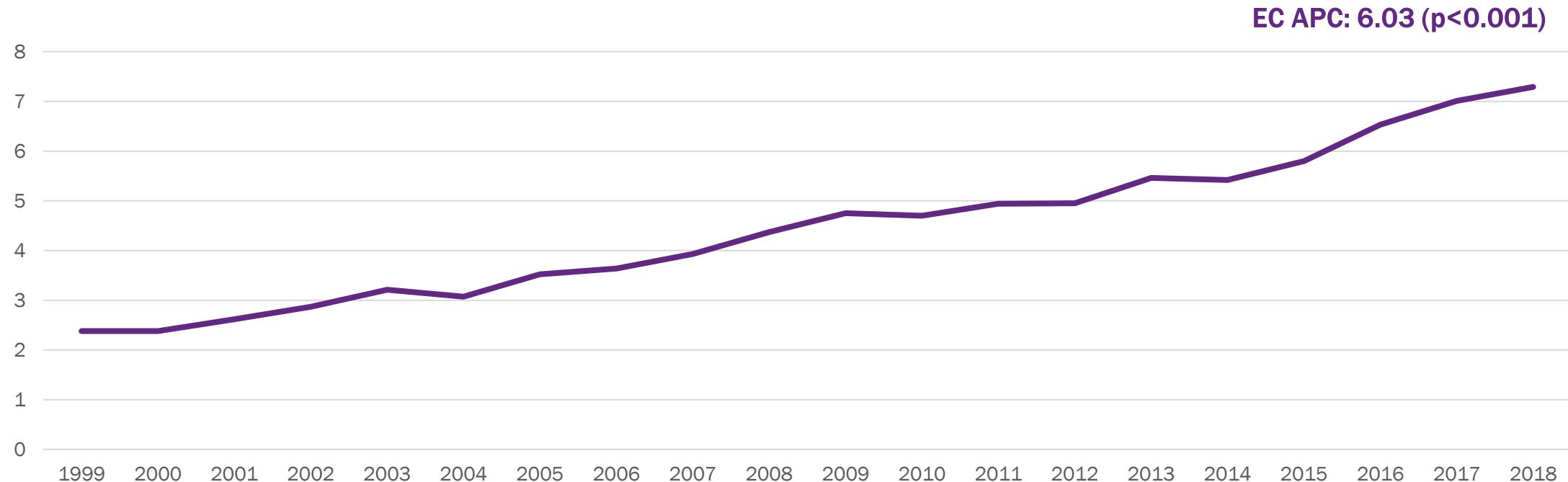
ASR (World) per 100,000  
<0.86       $\geq 2.8$

\*Estimated age-standardised incidence and mortality rates (World) in 2020. Data from the Globocan Registry, World Health Organization.<sup>5</sup>  
EC, endometrial cancer.

**1.** Makker V, et al. *Nat Rev Dis Primers.* 2021;7(1):88. **2.** Henley SJ, et al. *Cancer.* 2020;126(10):2225–2249. **3.** Concin N, et al. *Int J Gynecol Cancer.* 2021;31:12–39. **4.** Oaknin A, et al. *Ann Oncol.* 2022;33(9):860–877. **5.** Data source: GLOBOCAN 2020 Graph Production: Global Cancer Observatory (<http://goo.iarc.fr/>) © International Agency for Research on Cancer 2023.

The ASR for endometrial cancer increased from 2.38 per 100,000 in 1999 to **7.29** per 100,000 in 2018 ( $p<0.001$ ).

## ASR of primary endometrial cancer in Korea per 100,000 women, 1999-2018



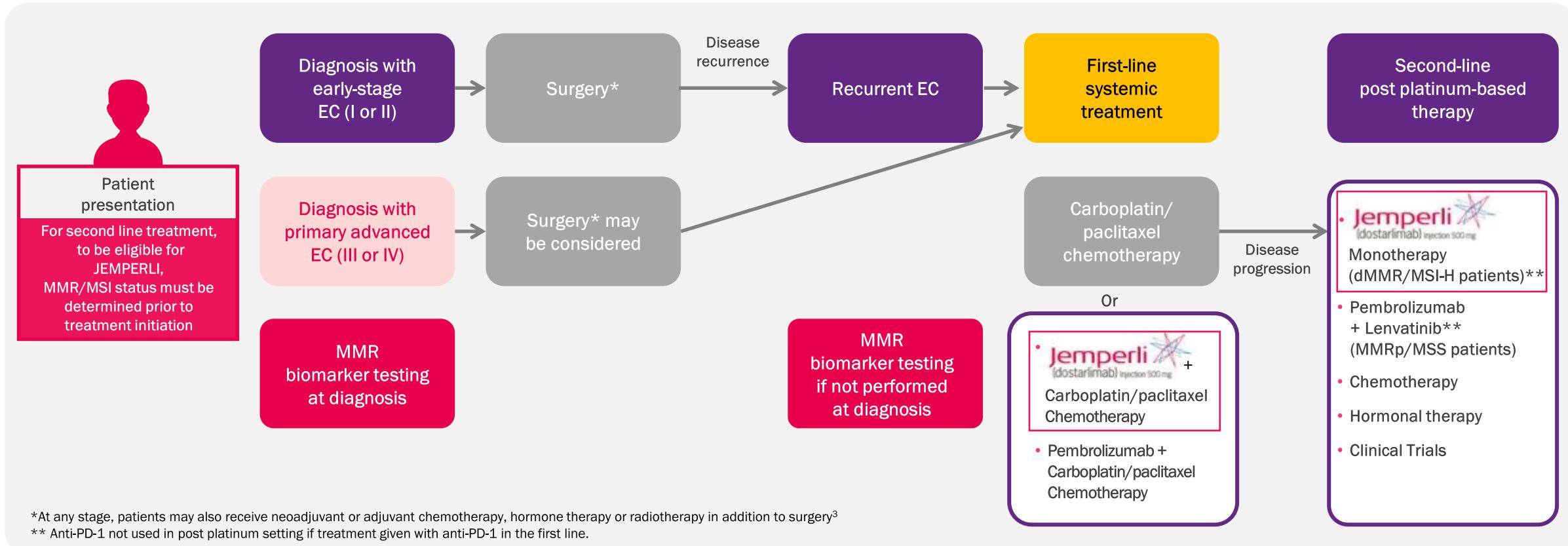
APC, annual percent change; ASR, age-standardized rates

### Study design

Women with primary EC diagnosed between 1999 and 2018, and who were followed up with until 2019, were identified from the Korea Central Cancer Registry using the International Classification of Diseases, 10th revision. The ASRs of incidence, APCs, and survival were estimated according to age, stage, histology, and year of diagnosis.

1. Shim SH, et al. Trends in the incidence and survival outcomes of endometrial cancer in Korea: a nationwide population-based cohort study. *J Gynecol Oncol.* 2024 May;35(3):e32.

# Primary Advanced/Recurrent Endometrial Cancer Treatment Pathway<sup>1-5</sup>



dMMR, mismatch repair deficient; EC, endometrial cancer; HCP, healthcare professional; IHC, immunohistochemistry, MMR, mismatch repair; MSI, microsatellite instability; MSI-H, microsatellite instability-high.

1. Oaknin, A. et al. Endometrial cancer: ESMO Clinical Practice Guideline for diagnosis, treatment and follow-up. Ann Oncol 2022; 33(9): 860-877 <https://doi.org/10.1016/j.annonc.2022.05.009> . 2. NICE guidance. TA779. Dostarlimab for previously treated advanced or recurrent endometrial cancer with high microsatellite instability or mismatch repair deficiency. Published: 16 March 2022 Available at: <https://www.nice.org.uk/guidance/ta779>. Last accessed Apr 2025 3. Oaknin, A. et al. Endometrial cancer: ESMO Clinical Practice Guideline for diagnosis, treatment and follow-up. Ann Oncol 2022; 33(9): 860-877 <https://doi.org/10.1016/j.annonc.2022.05.009>. 4. Oaknin, A. et al. Safety, Efficacy, and Biomarker Analyses of Dostarlimab in Patients with Endometrial Cancer: Interim Results of the Phase I GARNET Study. Clin Cancer Res 2023; <https://doi.org/10.1158/1078-0432>. 5. Miller DS, Filiaci VL, Mannel RS, et al. Carboplatin and Paclitaxel for Advanced Endometrial Cancer: Final Overall Survival and Adverse Event Analysis of a Phase III Trial (NRG Oncology/GOG0209).

# Effective Treatment Options are Needed for Patients with Advanced or Recurrent Endometrial Cancer



**63 Years**

Median age at diagnosis<sup>1</sup>

**~13% of ECs Recur<sup>3</sup>**

9% of ECs are advanced  
at time of diagnosis<sup>4</sup>

**<1 Year**

Overall survival for patients with  
advanced/recurrent EC failing first-  
line systemic treatment<sup>5</sup>

**EC has the Highest Rate of**  
dMMR/MSI-H of all solid tumors<sup>2</sup>

# The Overall Survival Rate for Endometrial Cancer Decreases Sharply as The Stage Progresses<sup>1</sup>

## 5-Year Survival Rate<sup>1</sup>

FIGO Stage I: 87%

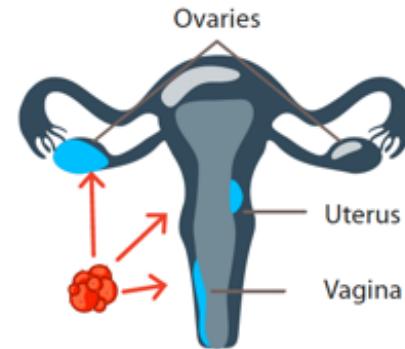
FIGO Stage II: 76%

**FIGO Stage III: 57%**

**FIGO Stage IV: 18%**

### Stage 3

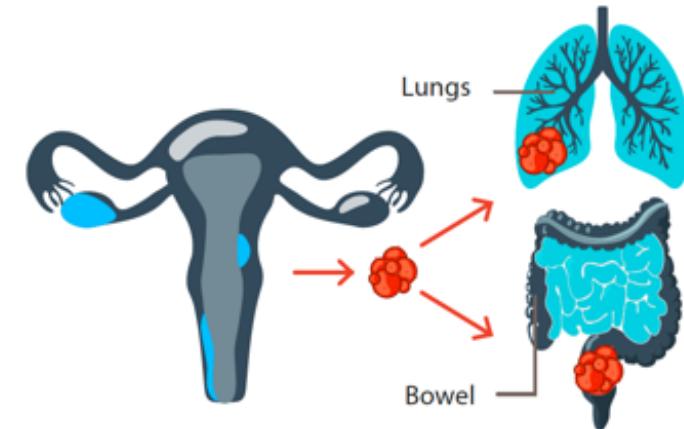
In stage 3 cancer, the cancer may be larger and may have spread to nearby organs.



The cancer has spread to the ovaries, vagina, or pelvic lymph nodes.

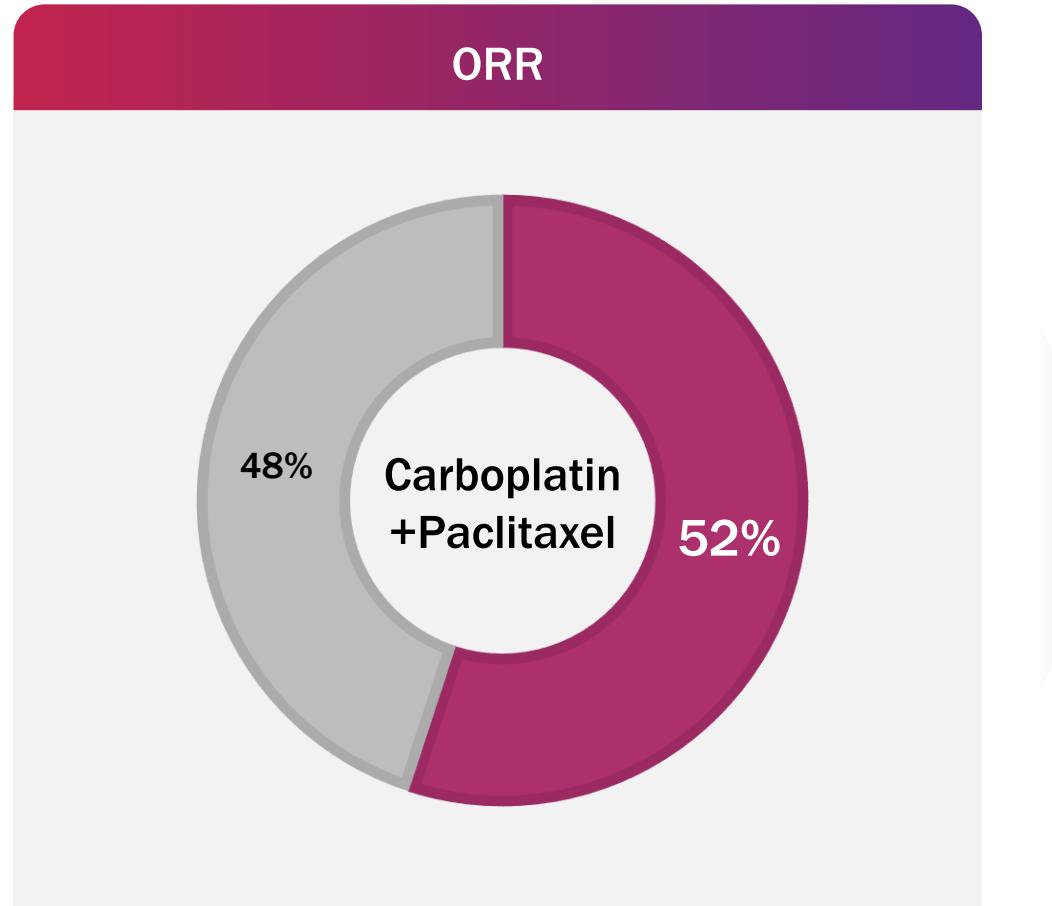
### Stage 4

In stage 4 cancer, the cancer has spread to more distant areas of the body.



The cancer has spread to the lungs, bowel, or other areas of the body.

# Poor Outcomes of Current Therapy Options in Clinical Trials.<sup>1-2</sup>



Chemotherapy Trials

Carboplatin + Paclitaxel

Trial	GOG 209 <sup>1</sup> (2012)
Population (Stage)	Stage 3-4 &Recurrent
N	1328
Regimen	CP
Median PFS	13 months (NS)
Median OS	<b>37months (NS)</b>

\* CP: carboplatin+ paclitaxel; TAP, paclitaxel-doxorubicin-cisplatin

1. Miller DS, et al. J Clin Oncol 2020 Nov 20;38(33):3841-3850. 2. Bae-Jump VL, et al. Gynecol Oncol. 2020

# Immune Checkpoint Inhibitors Have Revolutionized the Therapeutic Landscape in Cancer

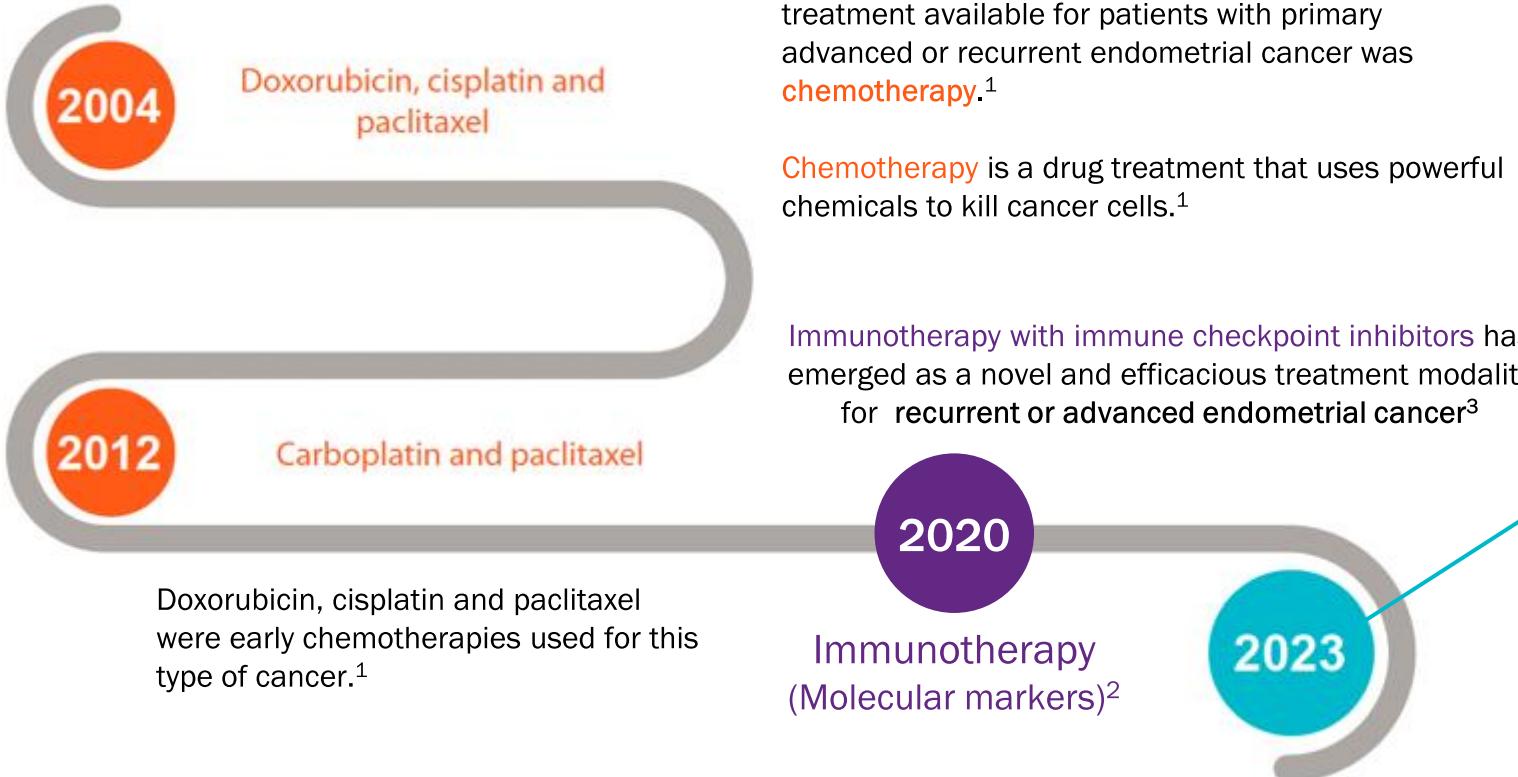
ICIs are a revolutionary milestone in cancer therapy

ICI use can be associated with immune-related adverse events

Magnitude of benefit may be more pronounced in certain patient subgroups

Utilization of predictive biomarkers to identify patients suitable for treatment is crucial to ensuring a positive risk/benefit profile for ICI monotherapy

# Endometrial Cancer Treatments

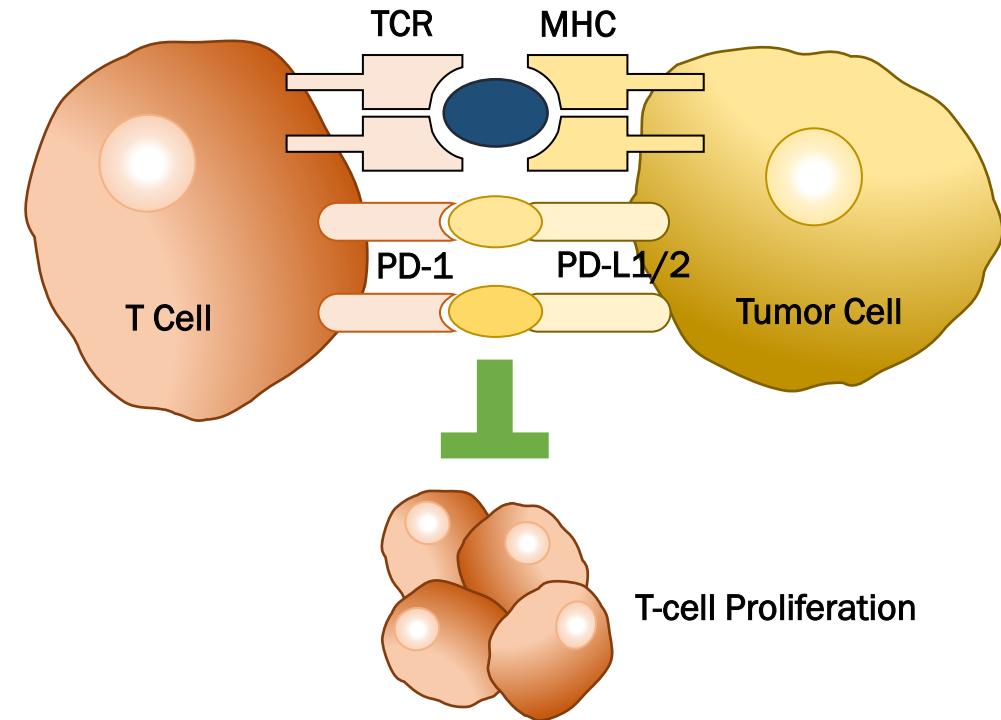


Carboplatin and Paclitaxel became the **standard of care** for primary advanced or recurrent endometrial cancer.<sup>1</sup>

**No new treatments were approved until 2023, when Dostarlimab plus chemotherapy was approved.<sup>1</sup>**

# PD-L1 is an Immune-Inhibitory Molecule Often Co-Opted by Tumors to Promote Tumor Growth

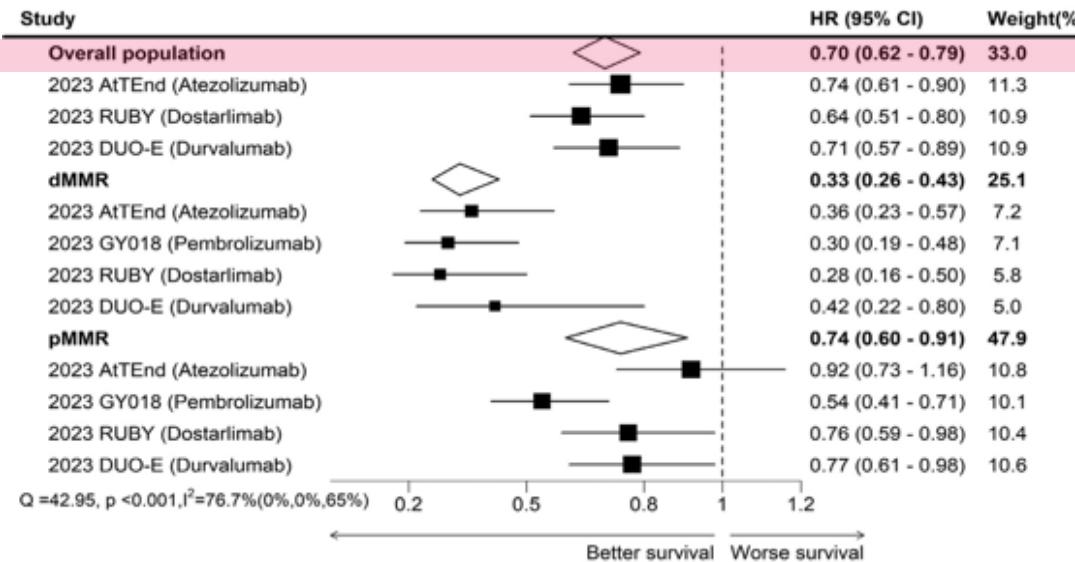
- The PD-1 pathway plays a **vital role in maintaining peripheral tolerance** by suppressing T-cell activity<sup>1,2</sup>
- PD-L1 is **more commonly present** than PD-L2 and may be co-opted by tumor cells to suppress immune surveillance<sup>2</sup>



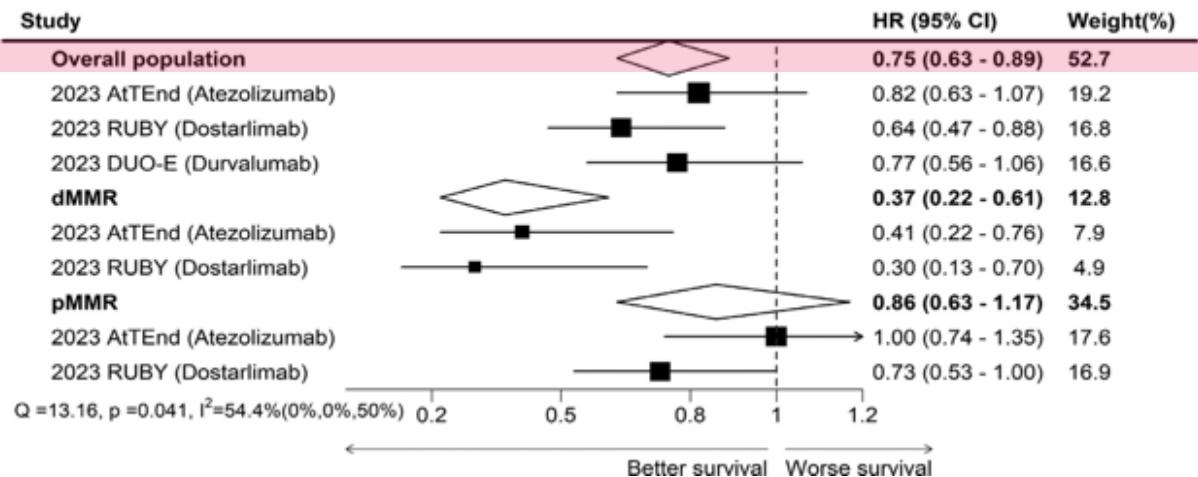
PD-L1 protein expression emerged as the first potential predictive biomarker for **response to ICIs** in many cancers<sup>2</sup>

# ICIs Combined with Platinum-Based Chemotherapy Significantly Prolonged PFS and OS in Patients with Advanced or Recurrent EC.

## Progression-Free Survival



## Overall Survival



**Adding ICIs to conventional platinum-based chemotherapy significantly improves survival outcomes in patients with primary advanced or recurrent endometrial cancer,**

as confirmed by a systematic review and meta-analysis of 4 trials involving 2,335 patients.

AtTEnd 연구에 사용된 면역항암제는 국내에서 자궁내막암 치료에 적응증이 없습니다.

ICI, immune checkpoint inhibitors; HR, hazard ratio; CI, confidence interval; OS, overall survival; EC, endometrial cancer; PFS, progression-free survival; MMR, mismatch repair; dMMR, MMR-deficient; MMRp, MMR-proficient

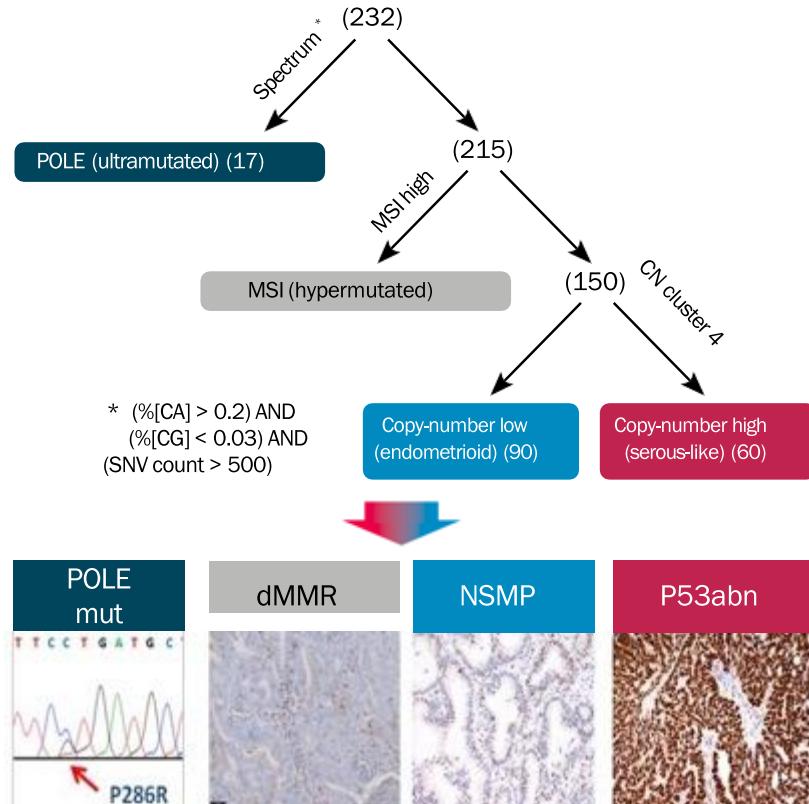
### Study design

Researchers conducted a comprehensive review of randomized controlled trials up to November 11, 2023, focusing on immunotherapy combined with chemotherapy versus chemotherapy alone for EC. The primary endpoint was the pooled HR, which was further analyzed across subgroups based on mismatch repair (MMR) status, race, histology, and programmed death-ligand 1 (PD-L1) status. The protocol was registered in PROSPERO (CRD42023475669).

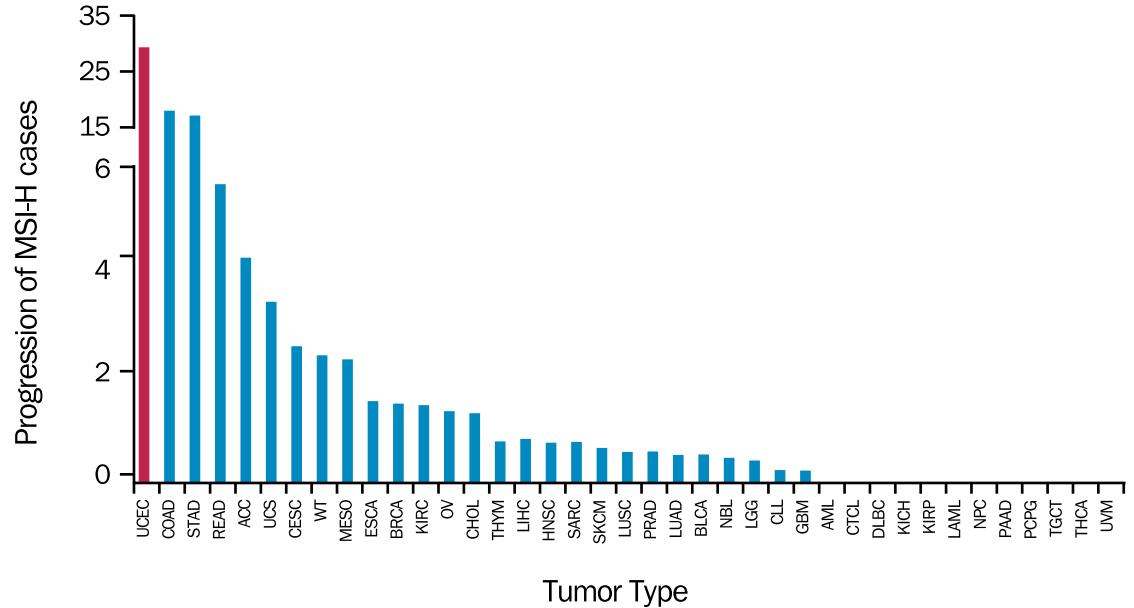
1. Kim JH, et al. Efficacy of immune-checkpoint inhibitors combined with cytotoxic chemotherapy in advanced or recurrent endometrial cancer: A systematic review and meta-analysis. Gynecol Oncol. 2024 Aug;187:85-91.

# Molecular groups in Endometrial Cancer

## TCGA & Surrogate markers



EC is the solid tumour with the greatest percentage of MSI-H cases: 31%



- Immunohistochemistry for p53 and mismatch repair proteins
- DNA sequencing for POLE exonuclease domain mutations

## Molecular Characterization



Patients can be prescribed Jemperli, regardless of MMR status in 1L

### MMRp

- 4 MMR proteins\* are normally expressed<sup>1</sup>
- MMR intact<sup>2</sup>
- Wild-type group<sup>3</sup>
- MMR proficient or presence<sup>4</sup>
- MMR proficiency<sup>5</sup>
- MMR normal<sup>6</sup>

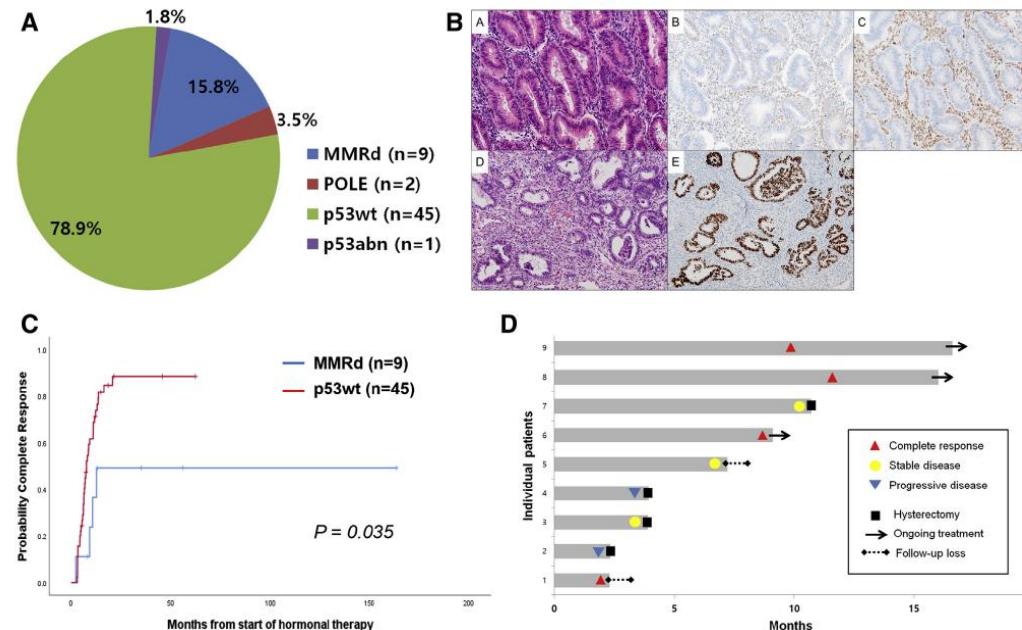
### dMMR

- 1 or more than 1 MMR protein is not expressed<sup>1</sup>
- MMR loss<sup>2</sup>
- Mutant-type group<sup>3</sup>
- MMR-weak or absent<sup>4</sup>
- MMR defect<sup>5</sup>
- MMR deficiency<sup>2</sup>
- MMR deficient<sup>2</sup>
- MMR reduced<sup>6</sup>

## GYNECOLOGY

### Mismatch repair status influences response to fertility-sparing treatment of endometrial cancer

Young Shin Chung, MD; Ha Young Woo, MD, PhD; Jung-Yun Lee, MD, PhD; Eunhyang Park, MD, PhD; Eun Ji Nam, MD, PhD; Sunghoon Kim, MD, PhD; Sang Wun Kim, MD, PhD; Young Tae Kim, MD, PhD

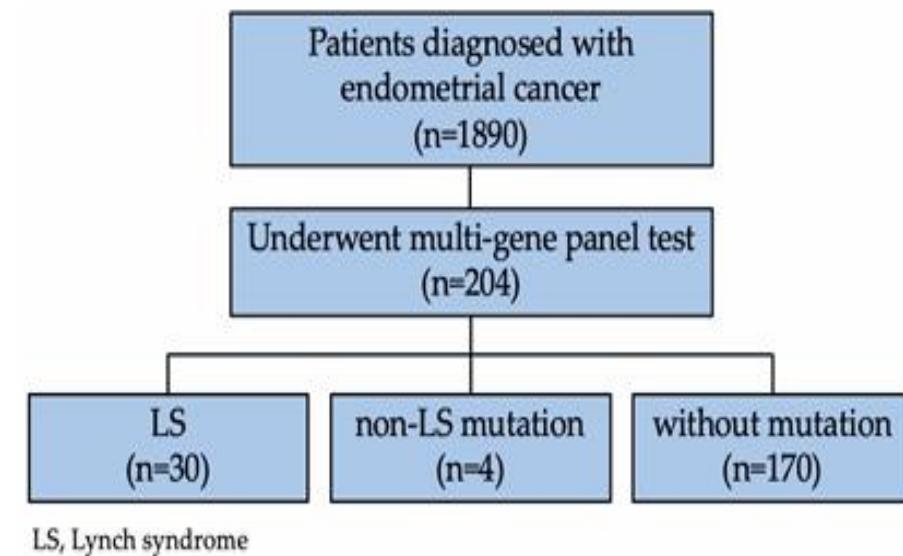


Left image adapted from Chung YS et al, Mismatch repair status influences response to fertility-sparing treatment of endometrial cancer. Am J Obstet Gynecol. 2021 Apr;224(4):370.e1-370.e13. Right image adapted from Yoo-Na Kim et al, Identification of Lynch Syndrome in Patients with Endometrial Cancer Based on a Germline Next Generation Sequencing Multigene Panel Test. Cancers, 2022 Jul 13;14(14):3406.

## Article

### Identification of Lynch Syndrome in Patients with Endometrial Cancer Based on a Germline Next Generation Sequencing Multigene Panel Test

Yoo-Na Kim <sup>1,†</sup>, Min Kyu Kim <sup>2,†</sup>, Young Joo Lee <sup>1</sup>, Youngeun Lee <sup>2</sup>, Ji Yeon Sohn <sup>3</sup>, Jung-Yun Lee <sup>1,\*</sup>, Min Chul Choi <sup>4,\*</sup>, Migang Kim <sup>4</sup>, Sang Geun Jung <sup>4</sup>, Won Duk Joo <sup>4</sup> and Chan Lee <sup>4</sup>



# Guidelines Recommend MMR/MSI Testing<sup>1</sup>

Jemperli  
(dostarlimab) Injection 500 mg



## ESMO 권고사항 MMR/MSI Testing(dMMR/MSI-H)

IHC(Recommendation A)<sup>2</sup> Presence/Absence of MMR protein expression<sup>3</sup>

PCR(Recommendation B)<sup>4</sup>

NGS(Recommendation C)<sup>5</sup> Presence/Absence of MMR ptn expression

## NCCN 권고사항 MMR/MSI Testing(dMMR/MSI-H)<sup>6</sup>

**Test your patients with primary advanced or recurrent endometrial cancer for MMR/MSI status as recommended by National Comprehensive Cancer Network® (NCCN®)<sup>5</sup>**

**Biomarkers provide prognostic and predictive value in endometrial cancer<sup>5</sup>**

# Commonly used techniques for measuring genomic and protein biomarkers

## IHC<sup>1,2</sup>

## PCR<sup>2-4</sup>

## NGS<sup>4,5</sup>

Analyses	Protein presence; morphologic tissue changes	Genetic sequences	Whole genome; targeted genes
Advantages	Low cost; short turnaround time	Moderate cost; short turnaround time	Provides details on all genomic mutations
Limitations	Tissue fixation may cause variability	Unable to perform highly multiplex assays	Requires specialised equipment; high cost; long turnaround time

Summary	Accessible and low-cost way to detect expressed proteins	Widely used for DNA sequencing; provides accurate quantification and high sensitivity	Provides a large amount of genetic information, but only select data have clinical relevance
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DNA, deoxyribonucleic acid; IHC, immunohistochemistry; NGS, next generation sequencing; PCR, polymerase chain reaction.

**1.** Bellizzi AM, Frankel WL. *Adv Anat Pathol*. 2009;16(6):405–417. **2.** De P, et al. *J Clin Oncol*. 2010;28(28):4289–4292. **3.** Khodakov D, et al. *Adv Drug Deliv Rev*. 2016;105(pt A):3–19. **4.** Dedeurwaerdere F, et al. *Sci Rep*. 2021;11(1):12880. **5.** Behjati S, Tarpey PS. *Arch Dis Child Educ Pract Ed*. 2013;98(6):236–238.

- NCCN Guideline recommends Dostarlimab for First- and Second-Line therapy of patients with recurrent EC<sup>1</sup>

Systemic Therapy for Endometrial Carcinoma	
Primary or Adjuvant therapy (Stage I-IV)	
Chemoradiation Therapy	Systemic Therapy
<u>Preferred Regimen</u> <ul style="list-style-type: none"> <li>• Cisplatin plus RT followed by carboplatin/paclitaxel</li> </ul>	<u>Preferred Regimens</u> <ul style="list-style-type: none"> <li>• Carboplatin/paclitaxel/pembrolizumab (for stage III-IV tumors, except for carcinosarcoma) (category 1)</li> <li>• <b>Carboplatin/paclitaxel/dostarlimab-gxly (for stage III-IV tumors)</b> (category 1)<sup>d,f,5</sup></li> <li>• Carboplatin/paclitaxel/durvalumab (for stage III-IV dMMR tumors only)(category 1)<sup>d,g,6</sup></li> <li>• Carboplatin/paclitaxel/trastuzumab (for stage III-IV HER2-positive uterine serous carcinoma or carcinosarcoma)<sup>d,h,7</sup></li> <li>• Carboplatin/paclitaxel/bevacizumab (for stage III-IV tumors)<sup>d,8,9</sup></li> <li>• Carboplatin/paclitaxel<sup>10</sup></li> </ul> <u>Other Recommended</u> <ul style="list-style-type: none"> <li>• Carboplatin/Paclitaxel/Durvalumab + Durvalumab/Olaparib (for stage III-IV pMMR tumors) (category 2B)<sup>d,11</sup></li> </ul>

## Systemic Therapy for Endometrial Carcinoma

### Recurrent

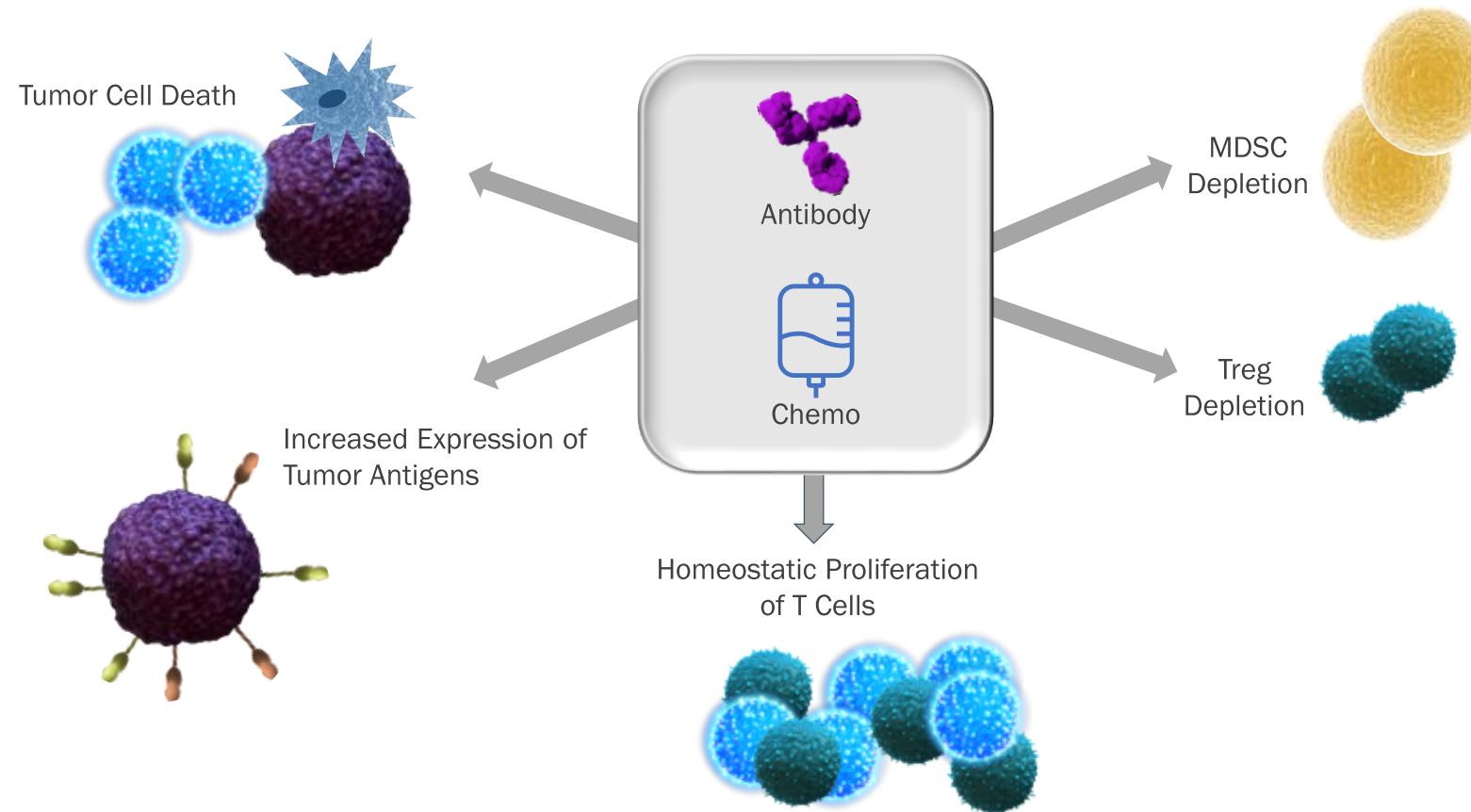
First-line Therapy for Recurrent Disease	Second-line or Subsequent Therapy
<p><u>Preferred</u></p> <ul style="list-style-type: none"> <li>Carboplatin/Paclitaxel + Pembrolizumab (except for carcinosarcoma) (category 1)<sup>d,e,1,3</sup></li> <li><b>Carboplatin/Paclitaxel + Dostarlimab-gxly (category 1)</b><sup>d,1,5</sup></li> <li>Carboplatin/Paclitaxel + Durvalumab (for dMMR only) (category 1)<sup>d,1,6</sup></li> <li>Carboplatin/Paclitaxel + Trastuzumab (for HER2-positive uterine serous carcinoma or carcinosarcoma)<sup>d,h,7</sup></li> <li>Carboplatin/Paclitaxel (category 1 for carcinosarcoma)<sup>m,10</sup></li> </ul> <p><u>Other Recommended Regimens</u></p> <ul style="list-style-type: none"> <li>Carboplatin/docetaxel<sup>n</sup></li> <li>Carboplatin/paclitaxel + bevacizumab<sup>d,8,9</sup></li> </ul> <p><u>Useful in Certain Circumstances</u></p> <ul style="list-style-type: none"> <li>MMR-proficient (pMMR) tumors <ul style="list-style-type: none"> <li>Carboplatin/Paclitaxel/Durvalumab + Durvalumab/Olaparib (category 2B)<sup>d,11</sup></li> </ul> </li> <li>Biomarker-directed therapy: after prior platinum-based therapy including neoadjuvant and adjuvant <ul style="list-style-type: none"> <li>pMMR tumors <ul style="list-style-type: none"> <li>Lenvatinib + Pembrolizumab (category 1)<sup>12,13</sup></li> <li>TMB-high (TMB-H) tumors<sup>o</sup> <ul style="list-style-type: none"> <li>Pembrolizumab<sup>e,14</sup></li> </ul> </li> <li>MSI-H/dMMR tumors<sup>p</sup> <ul style="list-style-type: none"> <li>Pembrolizumab<sup>e,15</sup></li> <li>Dostarlimab-gxly<sup>16</sup></li> </ul> </li> </ul> </li> </ul> </li></ul>	<p><u>Other Recommended Regimens</u></p> <ul style="list-style-type: none"> <li>Cisplatin/Doxorubicin<sup>17</sup></li> <li>Cisplatin/Doxorubicin/Paclitaxel<sup>9,17</sup></li> <li>Cisplatin/Gemcitabine<sup>18</sup></li> <li>Cisplatin, Carboplatin, Doxorubicin, Liposomal Doxorubicin, Paclitaxel<sup>19</sup></li> <li>Albumin-bound Paclitaxel<sup>h</sup>, Topotecan, B evacizumab<sup>s,20</sup></li> <li>Temsirolimus<sup>21</sup></li> <li>Cabozantinib/Lenvatinib<sup>22</sup></li> <li>Gemcitabine<sup>23</sup></li> <li>Docetaxel (category 2B)</li> <li>Ifosfamide (for carcinosarcoma)</li> <li>Ifosfamide/Paclitaxel (for carcinosarcoma)<sup>24</sup></li> <li>Cisplatin/Ifosfamide (for carcinosarcoma)</li> </ul> <p><u>Useful in Certain Circumstances (Biomarker-directed therapy)</u></p> <ul style="list-style-type: none"> <li>pMMR tumors <ul style="list-style-type: none"> <li>Lenvatinib/pembrolizumab (category 1)<sup>12,13</sup></li> <li>Axitinib + Avelumab<sup>25</sup></li> </ul> </li> <li>TMB-H tumors<sup>o</sup> <ul style="list-style-type: none"> <li>Pembrolizumab<sup>e,14</sup></li> <li>Ipilimumab + Nivolumab<sup>26</sup></li> </ul> </li> <li>MSI-H/dMMR tumors<sup>p</sup> <ul style="list-style-type: none"> <li>Pembrolizumab<sup>e,15</sup></li> <li><b>Dostarlimab-gxly</b><sup>16</sup></li> <li>Avelumab</li> <li>Nivolumab<sup>t,27</sup></li> <li>Tislelizumab-jsgr<sup>28</sup></li> <li>Retifanlimab-dlw<sup>29</sup></li> </ul> </li> <li>HER2-positive tumors (IHC 3+ or 2+) <ul style="list-style-type: none"> <li>Fam-trastuzumab deruxtecan-nxki<sup>30</sup></li> </ul> </li> <li>HER2-positive tumors (IHC 3+ or 2+) <ul style="list-style-type: none"> <li>Fam-trastuzumab deruxtecan-nxki (for carcinosarcoma)<sup>31</sup></li> </ul> </li> <li>NRK gene fusion-positive tumors <ul style="list-style-type: none"> <li>Larotrectinib</li> <li>Entrectinib</li> <li>Repotrectinib<sup>u,32</sup></li> </ul> </li> <li>RET gene fusion-positive tumors <ul style="list-style-type: none"> <li>Selpercatinib</li> </ul> </li> </ul>

# The RUBY Trial: Clinical Outcomes from 3 Years of Survival Follow-Up

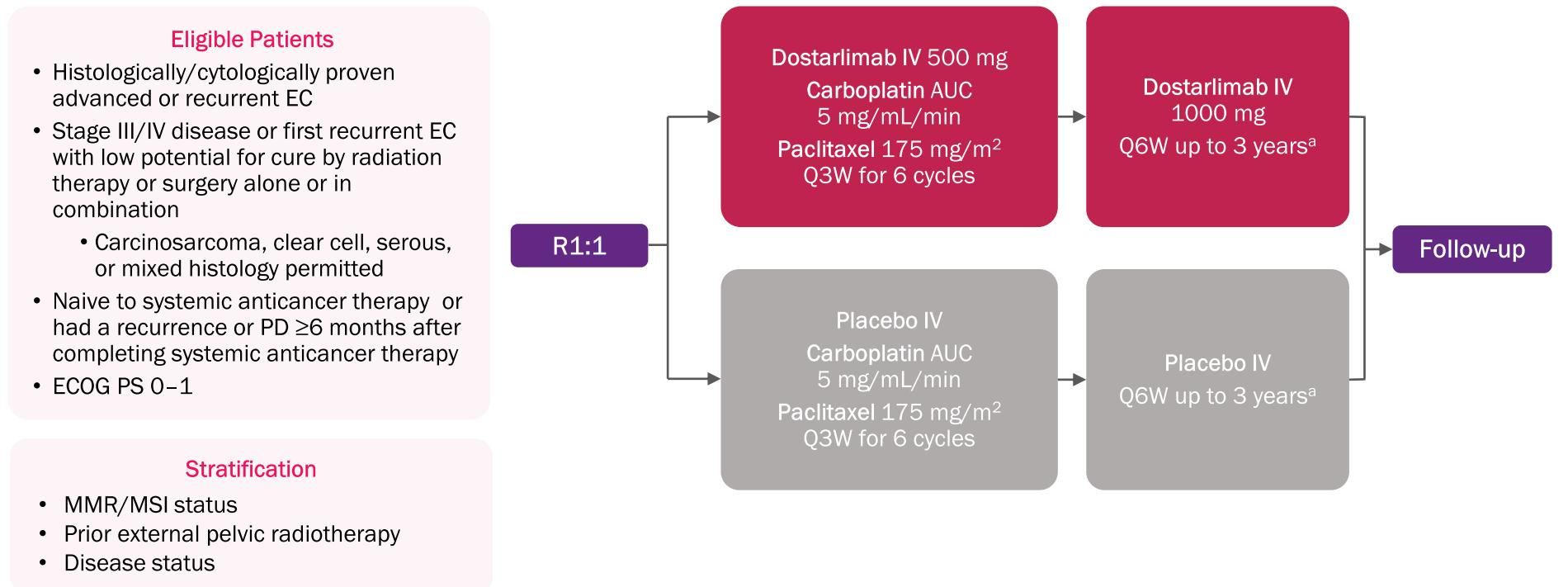


# Rationale for RUBY Part 1

Combination of ICIs with chemotherapy has demonstrated clinical benefit in multiple cancers and may work synergistically by leveraging rapid tumor response, enhanced immunogenic cell-death, and reduced immunosuppression in the tumor microenvironment<sup>1-4</sup>



- 젬퍼리 병용투여군과 위약 병용투여군을 나누어 비교한 글로벌, 이중맹검, 무작위 배정, 대조군 비교 3상 임상 연구<sup>1</sup>



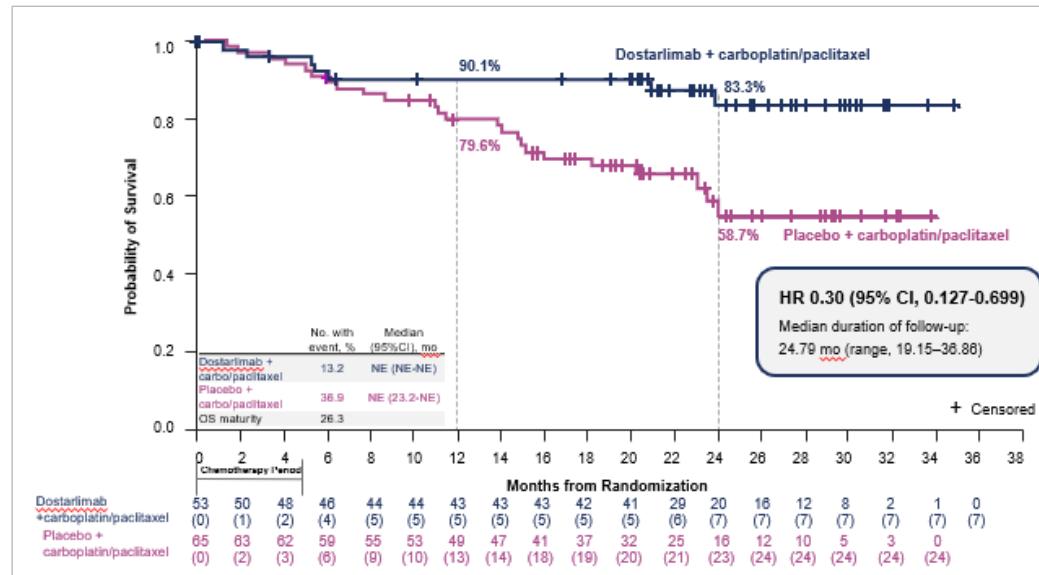
Imaging assessments during the treatment period were performed every 6 weeks ( $\pm 7$  days) from randomization until week 25 (cycle 8), followed by every 9 weeks ( $\pm 7$  days) until week 52. Subsequent imaging was performed every 12 weeks ( $\pm 7$  days) until radiographic progressive disease was documented by investigator assessment in accordance with RECIST, version 1.1, followed by one additional imaging assessment 4 to 6 weeks later, or until subsequent anti-cancer therapy was started, whichever occurred first. Thereafter, scans may be performed per standard of care. a. Mixed carcinoma  $\geq 10\%$  of carcinosarcoma, clear-cell, or serous histologic type. b. Patients underwent randomization on the basis of local or central MMR and MSI testing. Central testing was used when local results were not available. c. Treatment ends after 3 years or until disease progression, treatment discontinuation due to toxic effects, patient withdrawal, investigator decision to withdraw the patient, or death. AUC, area under the plasma or serum concentration-time curve; BICR, blinded independent central review; DCR, disease control rate; DOOR, duration of response; EC, endometrial cancer; IV, administered intravenously; INV, investigator assessment; MMR, mismatch repair; MSI, microsatellite instability; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PRO, patient-reported outcome.

1. Mirza MR, et al. N Engl J Med. 2023;388(23):2145-2158.

# Up-to-date RUBY OS Data

2023 SGO<sup>1</sup>

- RUBY Part 1 IA1 OS
- Median duration of follow-up: 24.8 mo.
- dMMR/MSI-H: HR 0.30

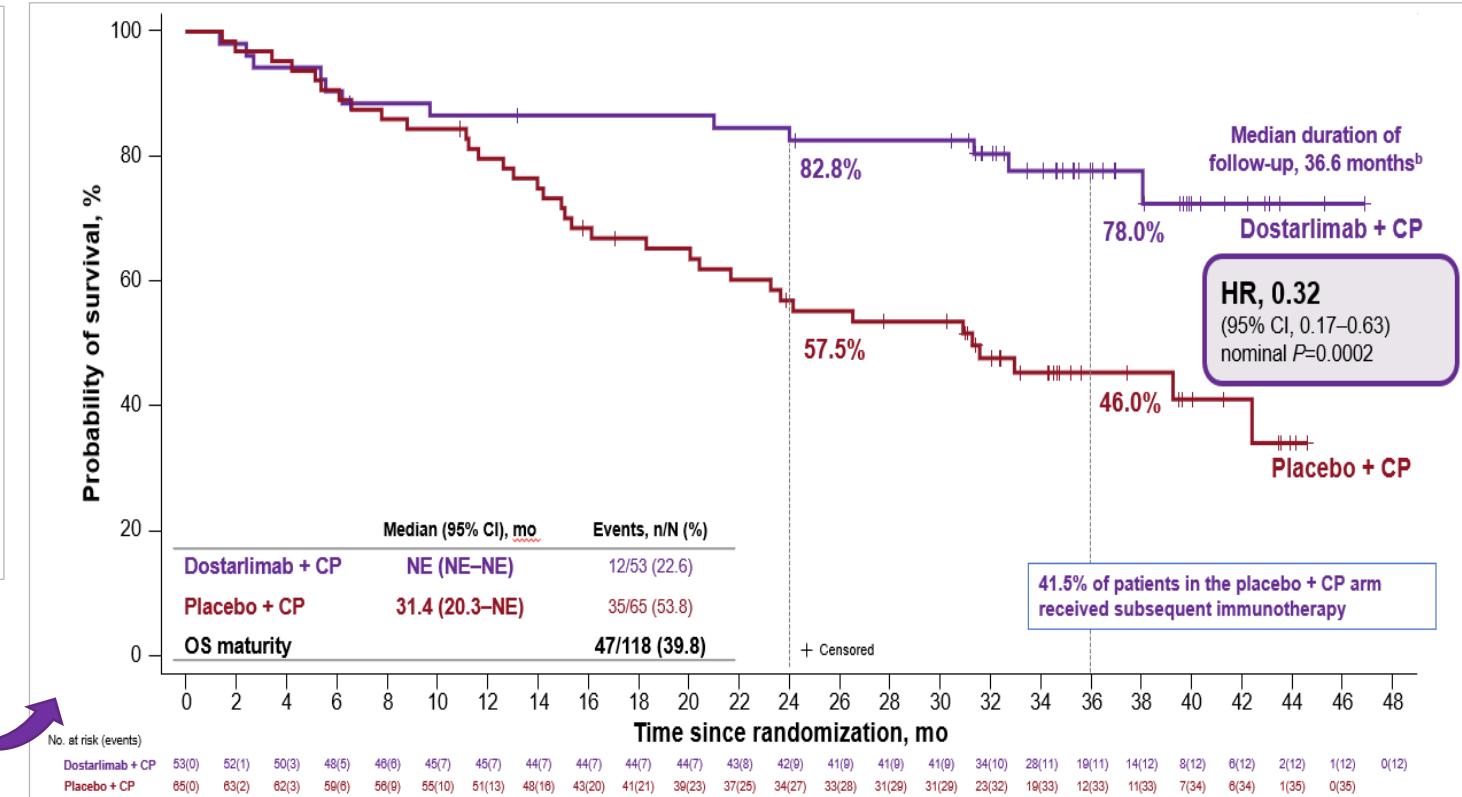


+12 months

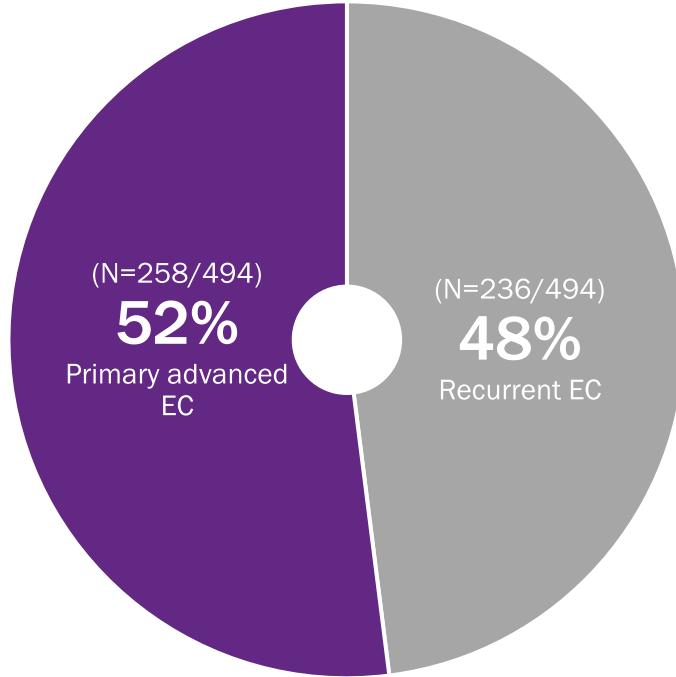
OS benefit confirmed

2024 SGO<sup>2</sup>

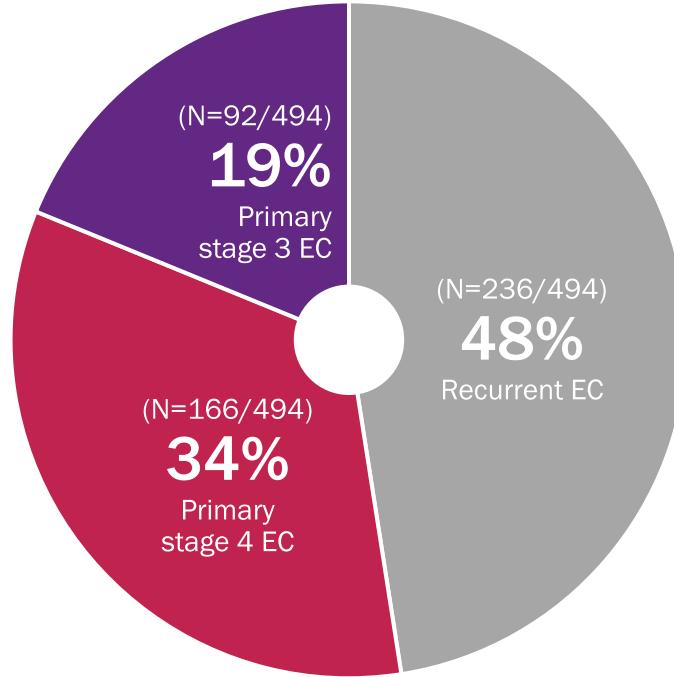
- RUBY Part 1 IA2 OS
- Median duration of follow-up: 36.6 mo.
- dMMR/MSI-H: HR 0.32



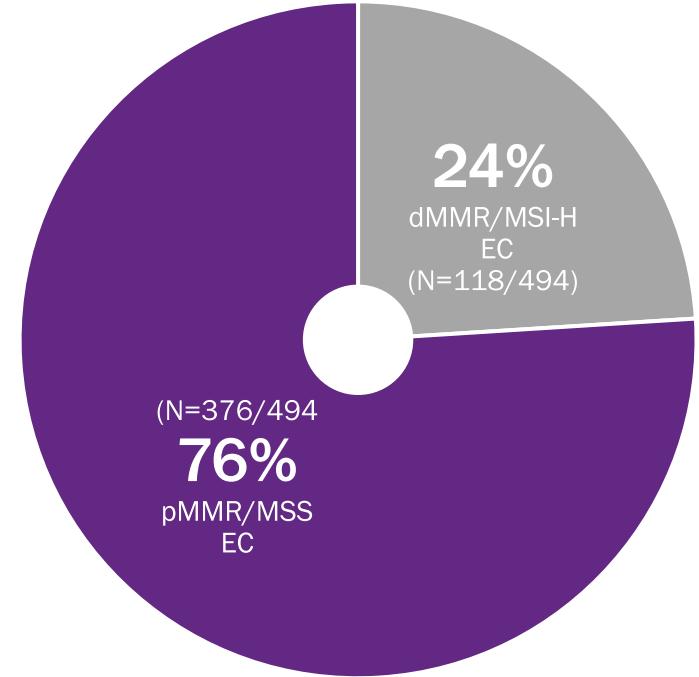
# A Total of 494 Patients were Included in the RUBY Study.



258 (52%) had primary advanced endometrial cancer, and 236 (48%) had recurrent endometrial cancer.



92 (19%) had stage 3 disease, 166 (34%) had stage 4 disease, and 236 (48%) had recurrent endometrial cancer.

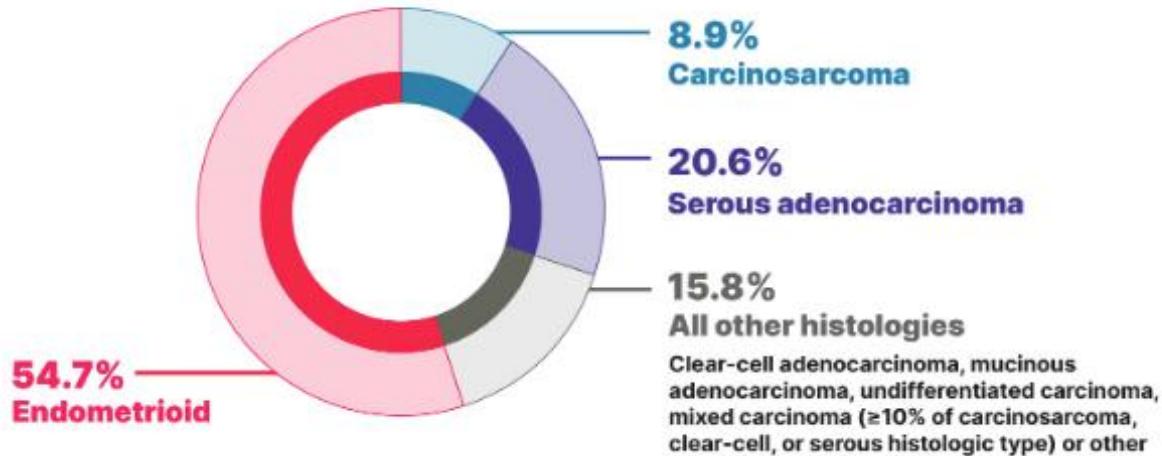


118 (24%) had dMMR/MSI-H tumors, and 376 (76%) had pMMR/MSS tumors.

# RUBY study - Included Diverse, Broad Disease Characteristics

## Diverse Disease Characteristics (N= 494)

### Histologies



### Disease Status



Image adapted from RUBY Efficacy & Study Design | JEMPERLI (dostarlimab-gxly)

## Broad Disease Characteristics (Distinguished as Measurable and Non-measurable)

Primary FIGO Stage III or Stage IV disease

Measurable Disease <sup>1*</sup>	Measurable* or Non-Measurable Disease <sup>1</sup>
Stage IIIA-IIIC1	Stage IIIC1 patients with carcinosarcoma, clear cell, serous, or mixed histology ( $\geq 10\%$ carcinosarcoma, clear cell, or serous histology)
	Stage IIIC2 or IV

First recurrent endometrial cancer with a low potential for cure by radiation therapy or surgery alone or in combination, including those:

- Naïve to systemic anticancer therapy
- Who had received prior neoadjuvant/adjuvant systemic anticancer therapy

# Summary of Key Efficacy Endpoints



Consistency of benefit was demonstrated across **PFS**, **PFS2**, and **OS** in dMMR/MSI-H EC patients

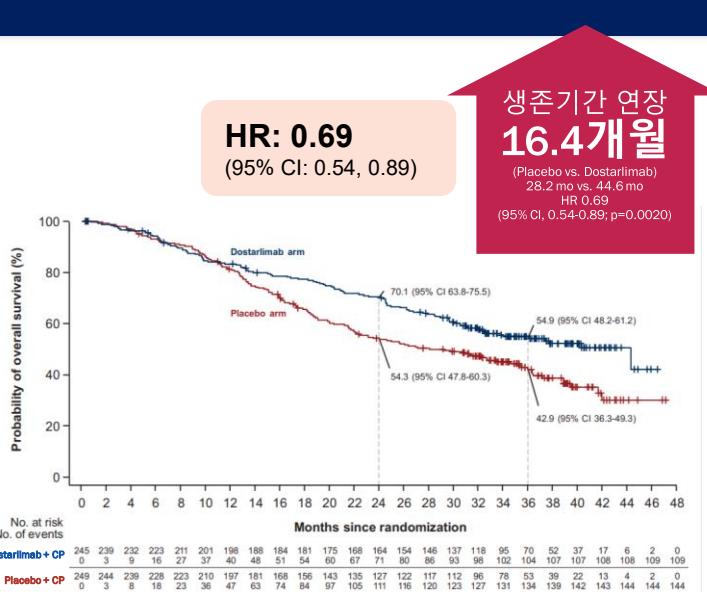
## Dostarlimab+Chemotherapy (vs Chemotherapy)

	Overall population	dMMR/MSI-H	MMRp/MSS
PFS <sup>1</sup>	Significant <b>36% reduction</b> in the risk of progression or death	Significant <b>72% reduction</b> in the risk of progression or death	<b>24% reduction</b> in the risk of progression or death
PFS2 <sup>2</sup>	<b>34% reduction</b> in the risk of second disease progression or death	<b>67% reduction</b> in the risk of second disease progression or death	<b>26% reduction</b> in the risk of second disease progression or death
OS <sup>2</sup>	Significant <b>31% reduction</b> in the risk of death	Significant <b>68% reduction</b> in the risk of death	Significant <b>21% reduction</b> in the risk of death

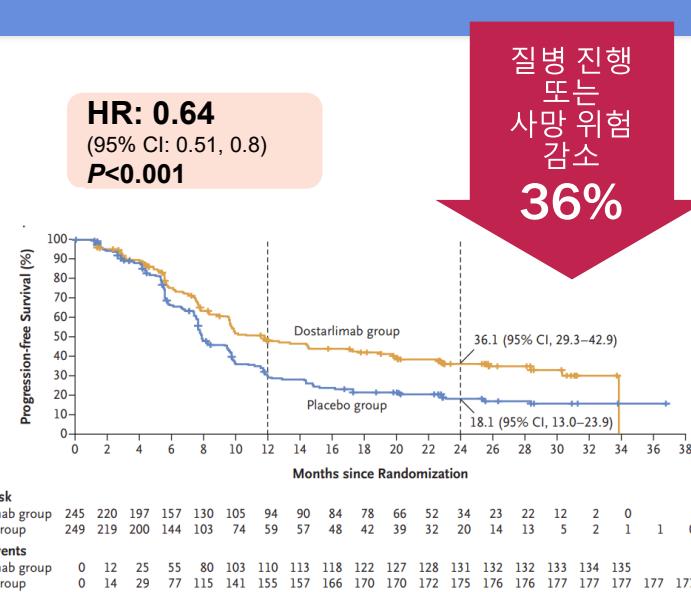
# RUBY Part 1 demonstrated transformational benefit in overall population with the addition of dostarlimab to chemotherapy

- Consistent benefit (HR results) across all endpoints, with >70% of patients alive after 2 years

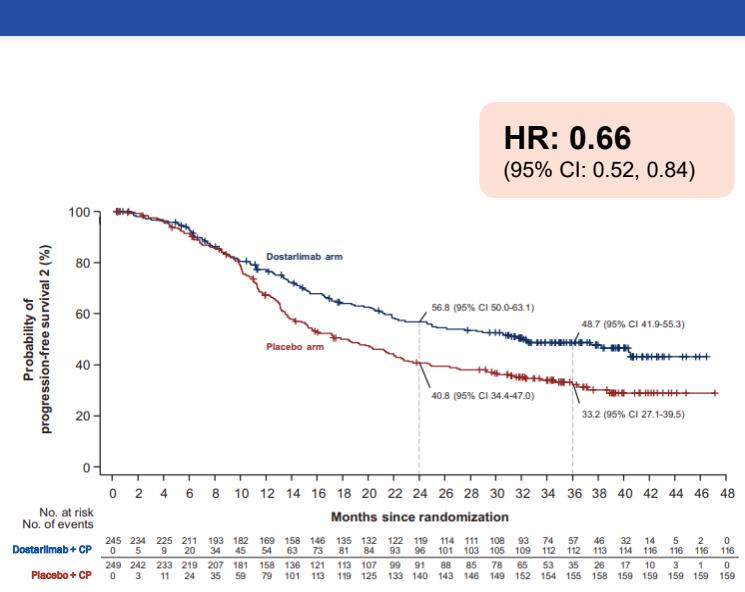
## OS (IA2): Overall population<sup>1</sup>



## PFS (IA1): Overall population<sup>2</sup>



## PFS2 (IA2): Overall population<sup>1</sup>

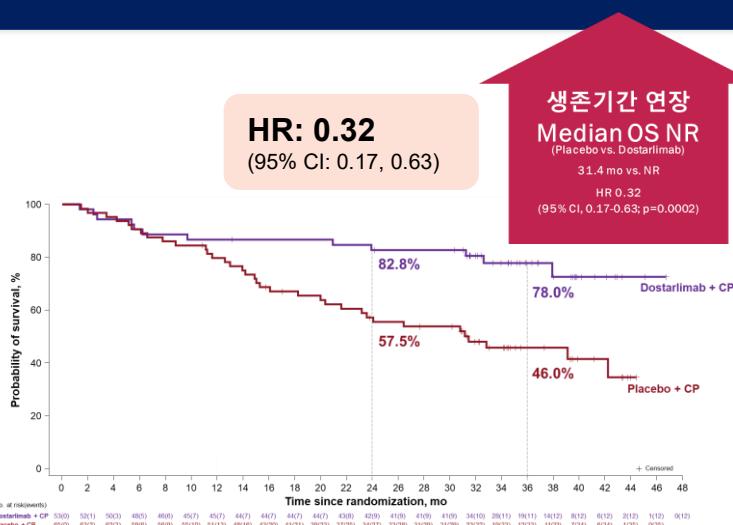


69.5% (n=173) of patients in the placebo + CP arm received any follow-up anticancer therapy; of those patients, 54.9% (n=95) received follow-up IO treatment specifically

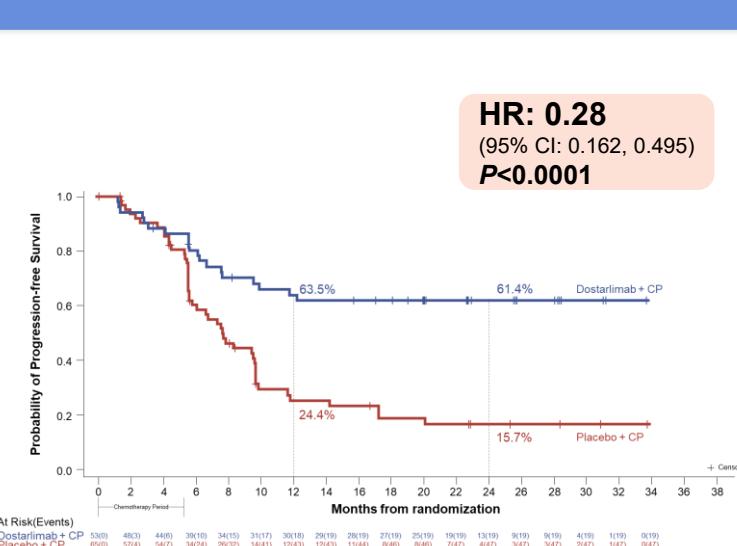
# RUBY Part 1 demonstrated transformational benefit in dMMR/MSI-H with the addition of dostarlimab to chemotherapy

- Consistent benefit (HR results) across all endpoints, with >80% of patients alive after 2 years

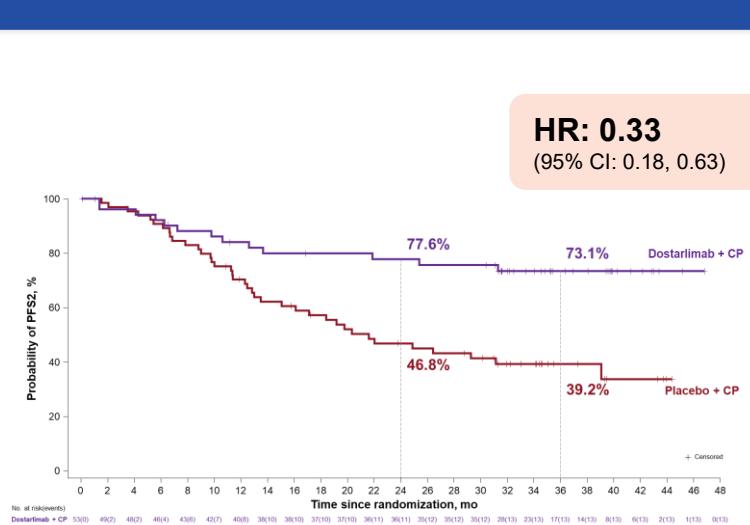
## OS (IA2): dMMR/MSI-H<sup>1</sup>



## PFS (IA1): dMMR/MSI-H<sup>2</sup>



## PFS2 (IA2): dMMR/MSI-H<sup>1</sup>

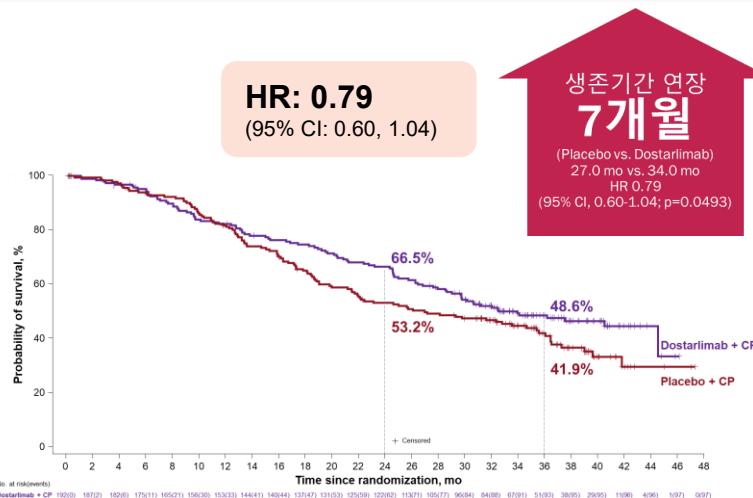


60% (n=39) of patients in the placebo + CP arm received any follow-up anticancer therapy; of those patients, 69% (n=27) received follow-up IO treatment specifically

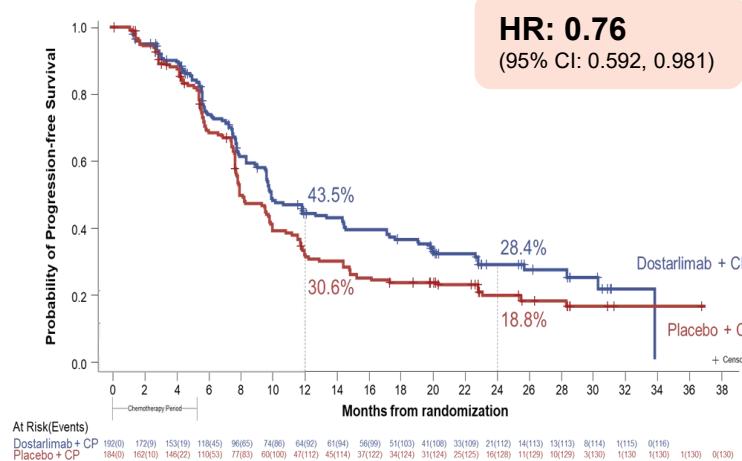
# RUBY Part 1 was the first trial to show clinically meaningful OS benefit in MMRp/MSS patients

- Consistent benefit (HR results) across all endpoints, with 7 months median OS benefit and 21% reduced risk of death

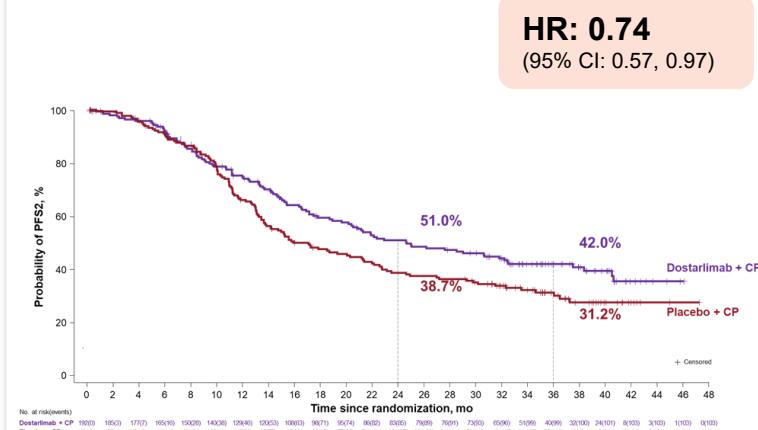
## OS (IA2): MMRp/MSS<sup>1</sup>



## PFS (IA1): MMRp/MSS<sup>2</sup>



## PFS2 (IA2): MMRp/MSS<sup>1</sup>



73% (n=134) of patients in the placebo + CP arm received any follow-up anticancer therapy; of those patients, 51% (n=68) received follow-up IO treatment specifically

# Overall Survival: A Precise, Objective, and Most Relevant Endpoint for Evaluating the Benefit of Novel Oncology Treatment Regimens<sup>1-3</sup>



**While OS is a highly relevant endpoint for patients, HCPs, and regulatory bodies, it can be a challenging endpoint to achieve<sup>1-3</sup>**

- Long follow-up periods in large trials
- Includes noncancer deaths
- Impact of subsequent therapies or switching from control to treatment

**In the past decade, ~20 trials of novel ICI-based regimens in A/R EC have been conducted and reported OS data, with the majority not reporting OS as a primary endpoint<sup>4-12</sup>**



**RUBY is a trial that demonstrates an ICI-based regimen that provides a clinically meaningful and statistically significant improvement in OS in primary A/R EC versus standard of care CP<sup>5</sup>**

- Despite the Placebo Group Having a Higher Use of Immunotherapy as a Second-Line Treatment, Jemperli Achieved Significantly Higher OS as a First-Line Treatment.  
→ Suggesting that Jemperli is effective as a first-line therapy

Variable, n (%)	dMMR/MSI-H		MMRp/MSS		Overall	
	Dostarlimab + CP (N=53)	Placebo + CP (N=65)	Dostarlimab + CP (N=192)	Placebo + CP (N=184)	Dostarlimab + CP (N=245)	Placebo + CP (N=249)
<b>Any follow-up anticancer therapy</b>	<b>15 (28.3)</b>	<b>39 (60.0)</b>	<b>105 (54.7)</b>	<b>134 (72.8)</b>	<b>120 (49.0)</b>	<b>173 (69.5)</b>
<b>Immunotherapy</b>	<b>8 (15.1)</b>	<b>27 (41.5)</b>	<b>34 (17.7)</b>	<b>68 (37.0)</b>	<b>42 (17.1)</b>	<b>95 (38.2)</b>
Pembrolizumab	4 (7.5)	21 (32.3)	9 (4.7)	20 (10.9)	13 (5.3)	41 (16.5)
Pembrolizumab-lenvatinib	3 (5.7)	2 (3.1)	22 (11.5)	43 (23.4)	25 (10.2)	45 (18.1)
Dostarlimab	0	3 (4.6)	0	0	0	3 (1.2)
<b>Other<sup>a</sup></b>	<b>2 (3.8)</b>	<b>1 (1.5)</b>	<b>3 (1.6)</b>	<b>11 (6.0)</b>	<b>5 (2.0)</b>	<b>12 (4.8)</b>

Data cutoff date: September 22, 2023.

a The category of other includes MK7694A, pembrolizumab-tamoxifen, retifanlimab-epacadostat, investigational product, atezolizumab-ipatasertib, avelumab-axitinib, bevacizumab-atezolizumab, durvalumab-cediranib, durvalumab-olaparib, nivolumab-BMS986207-COM701, nivolumab-lucitanib, and SGN-ALPV.

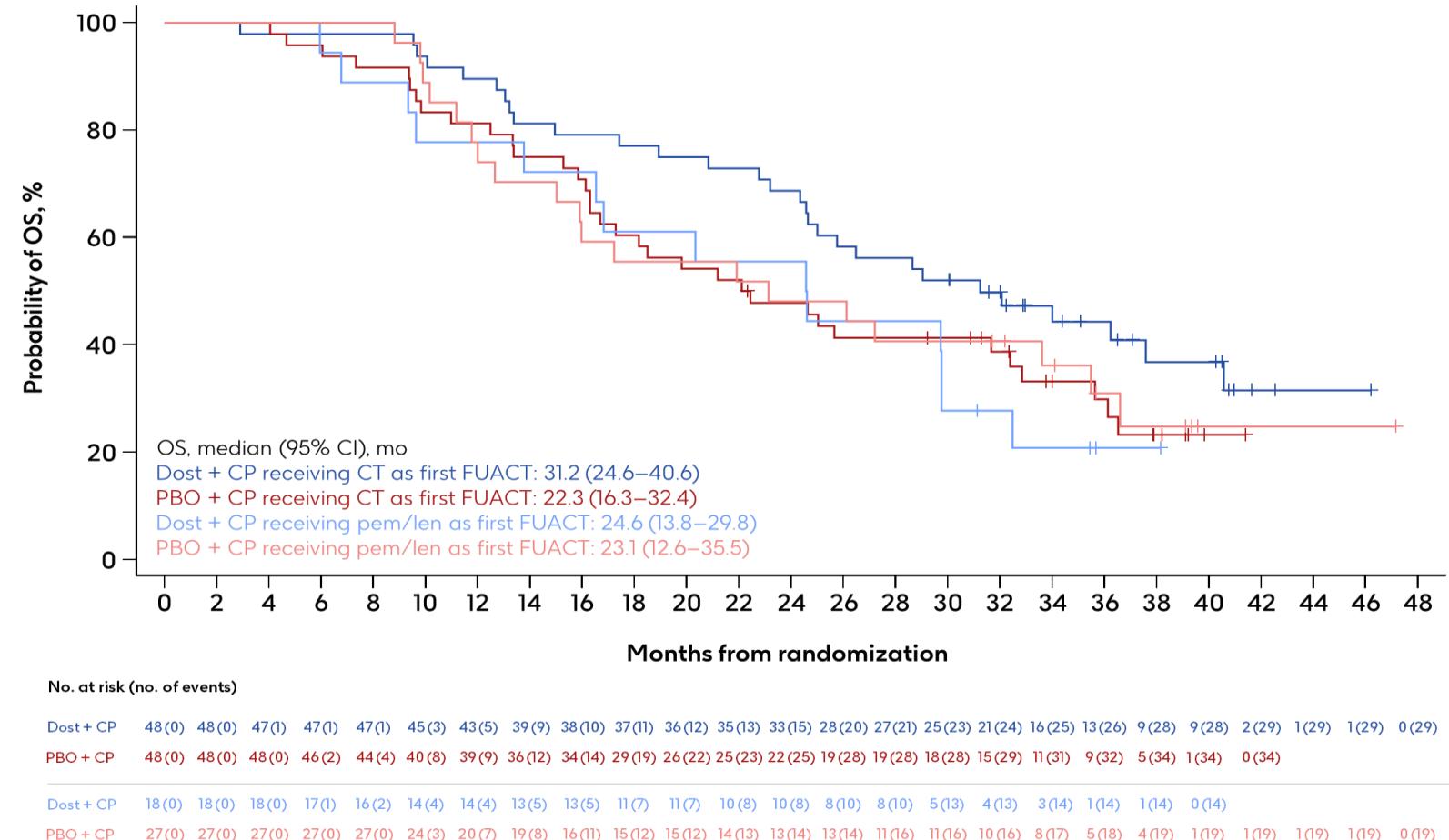
CP, carboplatin-paclitaxel; dMMR, mismatch repair deficient; MMRp, mismatch repair proficient; MSI-H, microsatellite instability high; MSS, microsatellite stable..

1. Powell MA, et al. Ann Oncol. 2024;35(8):728-738.

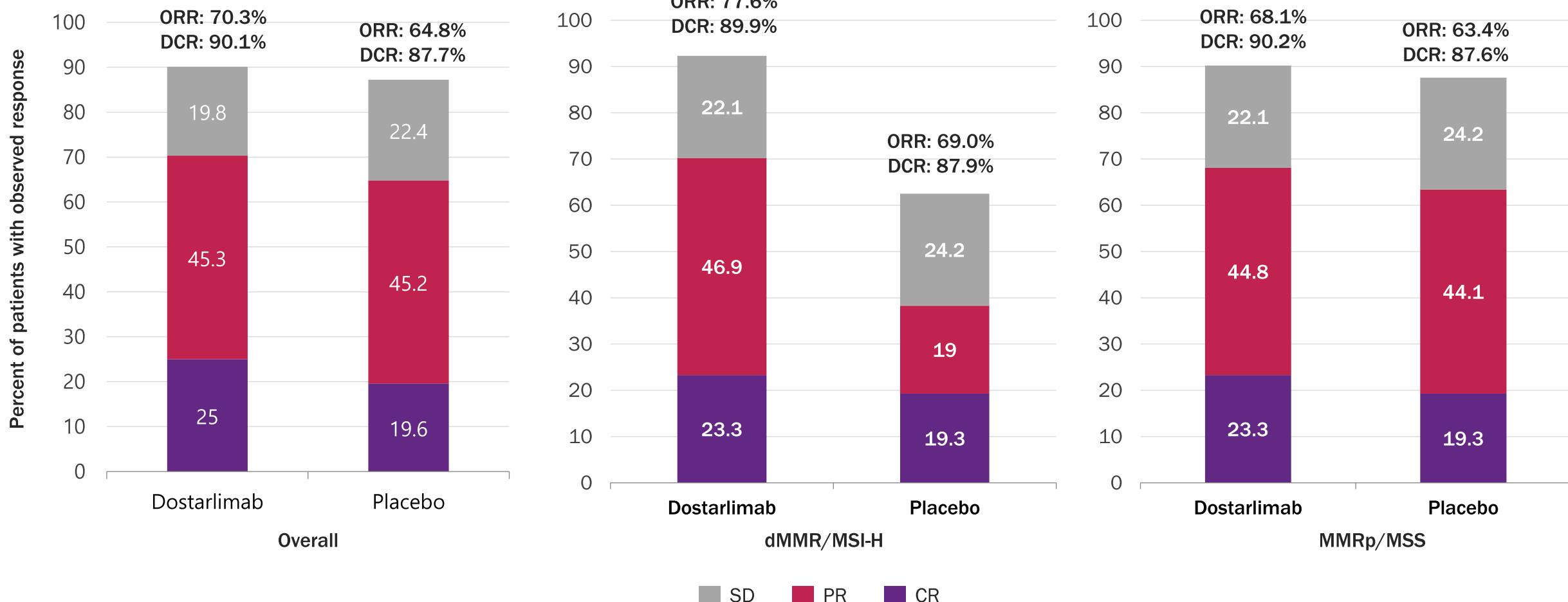
# Post hoc survival outcomes based on initial and subsequent treatment in patients with MMRp/MSS in RUBY trial

- In patients who received FUACT, OS outcomes favored dostarlimab + CP vs placebo + CP for the first FUACTs evaluated (Figure 3)
  - This included patients receiving pem/len as first FUACT after placebo + CP

Figure 3. OS for patients in the MMRp/MSS population who received CT or pem/len as first FUACT

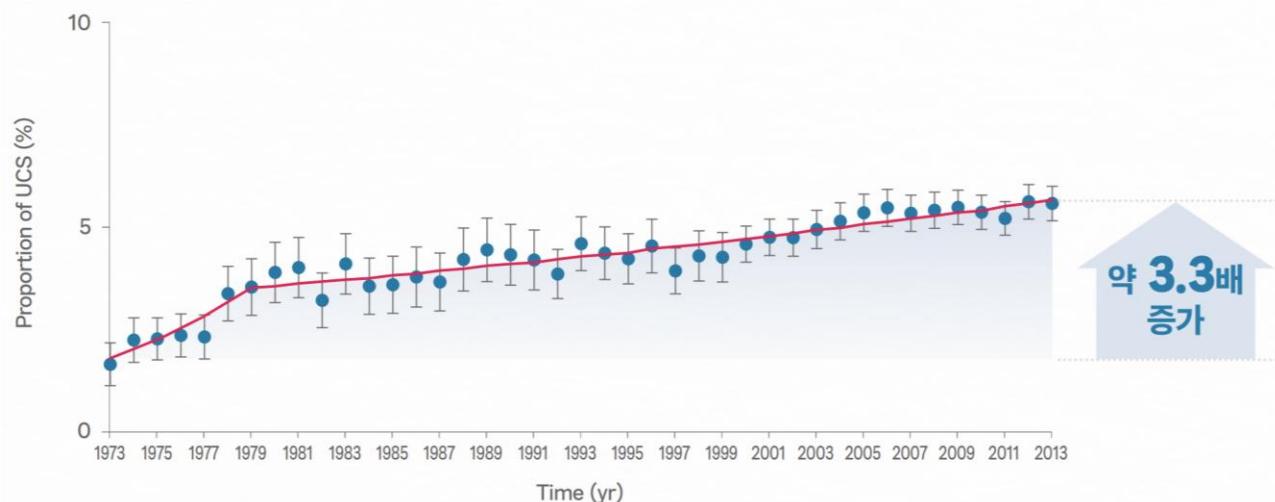


# ORR and DCR – Secondary Endpoints<sup>1</sup>

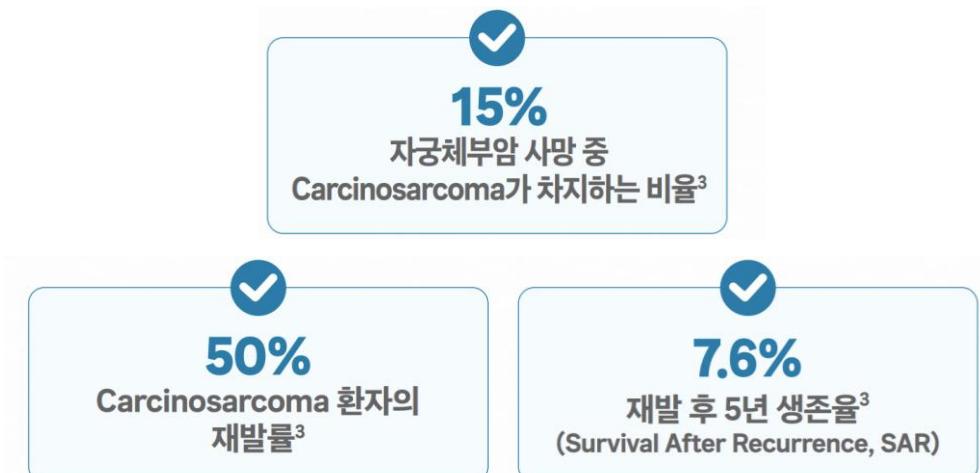


Between 1973 and 2013, the **proportion of carcinosarcoma** among endometrial cancers steadily increased from **1.7% to 5.6%**.<sup>1</sup>

## Trends of UCS (among all histology types)



- Carcinosarcoma is a highly aggressive cancer with a poor prognosis.<sup>2</sup>



# AE Management



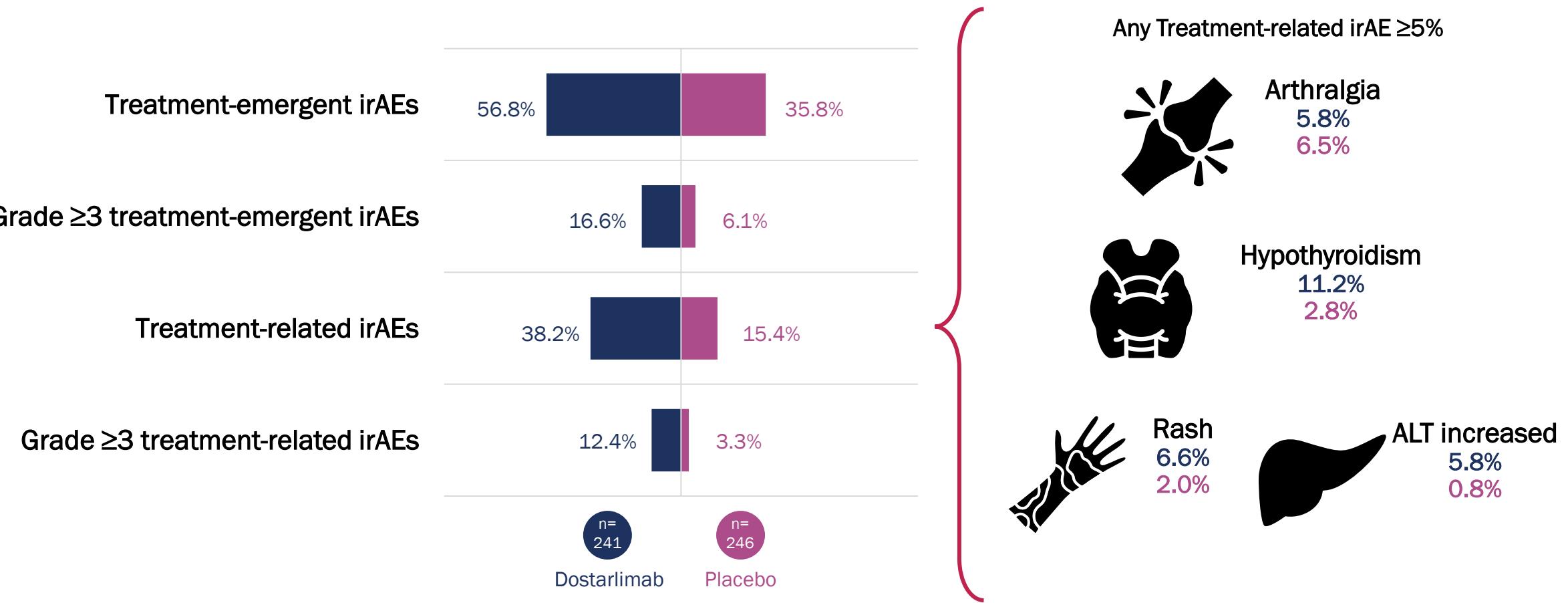
# Rates of Immune-related Adverse Events



- Rates of irAEs in Gynecologic Cancers Are Consistent With Rates in Other Tumor Types
- Clinical trials of checkpoint inhibitors in gynecologic cancers have shown a similar incidence and pattern of irAEs compared with other tumor types
- Due to the occurrence of common irAEs in studies of checkpoint inhibitors many clinical trial protocols provide specific management procedures for these events

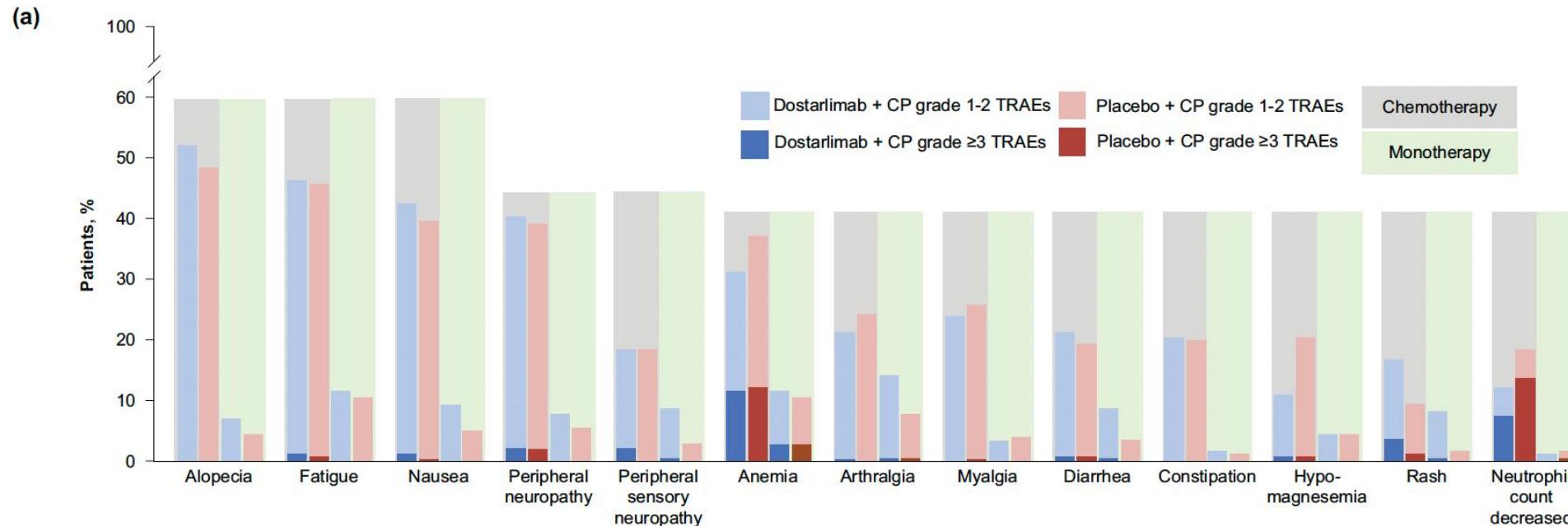
	Checkpoint Inhibitor Therapy	Approximate Incidence of Grade $\geq 3$ irAEs, Range (%)
Endometrial cancer <sup>1,2</sup>	Monotherapy (anti-PD-L1 or anti-PD-1)	0-6 <sup>a</sup>
Cervical cancer <sup>3,4</sup>	Monotherapy (anti-PD-L1 or anti-PD-1)	5-17
Ovarian cancer <sup>5-9</sup>	Monotherapy (anti-PD-L1 or anti-PD-1)	2-6
	Combination (anti-PD-1 + PARPi)	6
	Combination (anti-CTLA-4 + anti-PD-1)	Overall rate not reported (most common grade 3/4 irAEs: pancreatic and liver enzyme elevation, anemia, colitis/diarrhea)

<sup>a</sup>KEYNOTE-028 did not report the incidence of grade 3 irAEs; authors reported that no grade 4 irAEs occurred.<sup>1</sup>



# The Most Common TRAEs Occurred at Similar Rates between Arms and were Mostly Low Grade.

## Common TRAEs ( $\geq 15\%$ in either arm) by Treatment Period and Grade



Dostarlimab + CP TRAEs, n/N (%)	125/241 (51.9)	13/185 (7.0)	111/241 (46.1)	21/185 (11.4)	102/241 (42.3)	17/185 (9.2)	97/241 (40.2)	14/185 (7.6)	44/241 (18.3)	16/185 (8.6)	75/241 (31.1)	21/185 (11.4)	51/241 (21.2)	26/185 (14.1)	57/241 (23.7)	6/185 (3.2)	51/241 (21.2)	16/185 (8.6)	49/241 (20.3)	3/185 (1.6)	26/241 (10.8)	8/185 (4.3)	40/241 (16.6)	15/185 (8.1)	29/241 (12.0)	2/185 (1.1)
Dostarlimab + CP TRAEs grade $\geq 3$ , n/N (%)	0	0	3/241 (1.2)	0	3/241	0	5/241 (2.1)	0	5/241 (1.2)	1/185 (0.5)	28/241 (11.6)	5/185 (2.7)	1/241 (0.4)	1/185 (0.5)	0	0	2/241 (0.8)	1/185 (0.5)	0	0	2/241 (0.8)	0	9/241 (3.7)	1/185 (0.5)	18/241 (7.5)	0
Placebo + CP TRAEs, n/N (%)	119/246 (48.4)	8/184 (4.3)	112/246 (45.5)	19/184 (10.3)	97/246 (39.4)	9/184 (4.9)	96/246 (39.0)	10/184 (5.4)	45/246 (18.3)	5/184 (2.7)	91/246 (37.0)	19/184 (10.3)	59/246 (24.0)	14/184 (7.6)	63/246 (25.6)	7/184 (3.8)	47/241 (19.1)	6/184 (3.3)	49/241 (19.9)	2/184 (1.1)	50/246 (20.3)	8/184 (4.3)	23/426 (9.3)	3/184 (1.6)	45/246 (18.3)	3/184 (1.6)
Placebo + CP TRAEs grade $\geq 3$ , n/N (%)	0	0	2/246 (0.8)	0	1/246 (0.4)	0	5/246 (2.0)	0	0	0	30/246 (12.2)	5/184 (2.7)	0	1/184 (0.5)	1/246 (0.4)	0	2/246 (0.8)	0	0	0	2/246 (0.8)	0	3/246 (1.2)	0	34/246 (13.8)	1/184 (0.5)

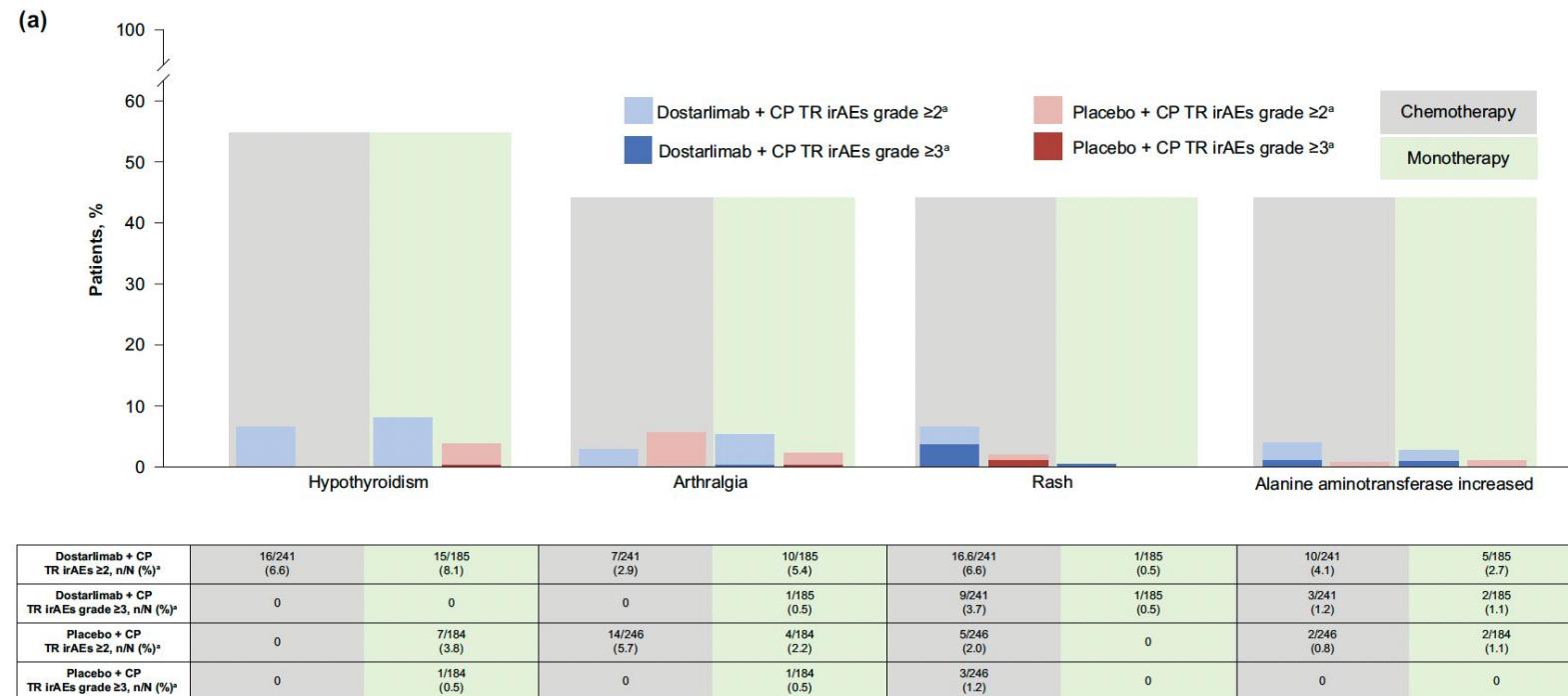
### Study design

The objective of this analysis was to identify the occurrence of TRAEs and irAEs and to describe irAE management in Part 1 of the RUBY trial. Design: RUBY is a phase III, randomized, double-blind, multicenter study of dostarlimab plus CP compared with CP alone in patients with primary advanced or recurrent EC. Methods: Patients were randomized 1:1 to dostarlimab 500 mg, or placebo, plus CP every 3 weeks for 6 cycles, followed by dostarlimab 1000 mg, or placebo, every 6 weeks for up to 3 years. Adverse events (AEs) were assessed according to Common Terminology Criteria for Adverse Events. TRAEs, treatment-related adverse events; irAEs, immune-related adverse events; CP, carboplatin-paclitaxel; TR, treatment-related; AE, adverse event. Auranen A, et al. Safety of dostarlimab in combination with chemotherapy in patients with primary advanced or recurrent endometrial cancer in a phase III, randomized, placebo-controlled trial (ENGOT-ENG-NSGO/GOG-3031/RUBY). Ther Adv Med Oncol. 2024 Sep 28;16:17588359241277656.

# IrAEs Ocurred in 58.5% of Patients in the Dostarlimab Arm and 37.0% of Patients in the Placebo Arm.

Most common dostarlimab or placebo related irAEs were hypothyroidism, rash, arthralgia, and Alanine aminotransferase increased.

## Most common treatment related irAEs (occurring in $\geq 5\%$ of patients in either treatment arm)



### Study design

The objective of this analysis was to identify the occurrence of TRAEs and irAEs and to describe irAE management in Part 1 of the RUBY trial. Design: RUBY is a phase III, randomized, double-blind, multicenter study of dostarlimab plus CP compared with CP alone in patients with primary advanced or recurrent EC. Methods: Patients were randomized 1:1 to dostarlimab 500 mg, or placebo, plus CP every 3 weeks for 6 cycles, followed by dostarlimab 1000 mg, or placebo, every 6 weeks for up to 3 years. Adverse events (AEs) were assessed according to Common Terminology Criteria for Adverse Events. TRAEs, treatment-related adverse events; irAEs, immune-related adverse events; CP, carboplatin-paclitaxel; TR, treatment-related; AE, adverse event. aTR irAE refers to dostarlimab- or placebo-related irAEs. 1. Auranen A, et al. Safety of dostarlimab in combination with chemotherapy in patients with primary advanced or recurrent endometrial cancer in a phase III, randomized, placebo-controlled trial (ENGOT-EN6-NSGO/GOG-3031/RUBY). Ther Adv Med Oncol. 2024 Sep 28;16:17588359241277656.

✓ 용량 감량은 권장하지 않습니다.

다만, 약물이상반응을 관리하기 위해서 이 약의 투여를 보류하거나 중단할 수 있습니다.

## 면역관련 이상반응 등급에 따른 용량조절 권장사항

Colitis 결장염	2등급 또는 3등급: 투여 중지. 중증도 등급 0 또는 1로 회복 시 재 투여 4등급: 영구 투여 중단
Hepatitis 간염	2등급 (AST 또는 ALT가 ULN의 3배 초과~5배로 상승하거나 총 빌리루빈이 정상 상한치의 1.5배 초과~3배로 상승하는 경우): 투여 중지. 중증도 등급 0 또는 1회 회복 시 재 투여 3등급 이상 (AST 또는 ALT가 ULN의 5배를 초과하거나 총 빌리루빈이 정상 상한치의 3배를 초과하는 경우): 영구 투여 중단
Type 1 diabetes mellitus 제1형 당뇨병	3등급 또는 4등급 (고혈당): 투여 중지. 혈당이 적절히 유지되고 임상적, 대사적으로 안정적인 환자에게 재 투여
Hypophysitis or adrenal insufficiency 뇌하수체염 또는 부신 부전	2등급, 3등급 또는 4등급: 투여 중지. 중증도 등급 0 또는 1회 회복 시 재 투여. 적절한 호르몬 치료 중에도 재발 또는 악화된 경우 영구 중단
Hypothyroidism or hyperthyroidism 갑상선 저하증 또는 갑상선 항진증	3등급 또는 4등급: 투여 중지. 중증도 등급 0 또는 1회 회복 시 재 투여
Pneumonitis 폐염증	2등급: 투여 중지. 중증도 등급 0 또는 1회 회복 시 재 투여. 2등급으로 재발 시 영구 중단. 3등급 또는 4등급: 영구 투여 중단
Nephritis 신장염	2등급: 투여 중지. 중증도 등급 0 또는 1회 회복 시 재 투여. 3등급 또는 4등급: 영구 투여 중단
Exfoliative dermatologic conditions 탈락성 피부 병태 (예:SJS,TEN,DRESS)	의상: 모든 등급에 대해 투여 중지. 확진되지 않고 중증도 등급 0 또는 1로 회복 시 재 투여. 확진: 영구 투여 중단
Myocarditis 심근염	1등급, 2등급, 3등급 또는 4등급: 영구 투여 중단.
Neurological toxicities 중증 신경학적 독성 (근육 무력증후군/ 중증 근무력증, 길행-바레 증후군, 뇌염, 흰단성 적수염)	1등급: 투여 중지. 중증도 등급 0으로 회복 시 재 투여. 길행-바레 증후군의 경우, 영구 투여 중단. 2등급, 3등급 또는 4등급: 영구 투여 중단.
Other immune-mediated adverse reactions involving major organs 주요 장기와 관련된 기타 면역 관련 이상반응	3등급: 투여 중지. 중증도 등급 0 또는 1회 회복 시 재 투여. 4등급: 영구 투여 중단.
Recurrent immune-mediated adverse reactions after severity decreased to Grade 1 or less 중증도 등급 1 이하로 감소한 이후 재발한 면역관련 이상반응 (폐연증 제외, 성기 침조)	3등급 또는 4등급: 영구 투여 중단.
Other adverse reactions 다른 이상반응	중증도 등급: 용량 조절.
Infusion-related reactions 주입관련 이상반응	2등급: 투여 중지. 중지 1시간 이내에 회복 시 처음 주입 속도의 50% 속도로 재 투여하거나, 전처치료로 증상 회복 시 재 투여 가능. 적절한 전처치료에도 2등급으로 재발 시 영구 투여 중단.

\*만 전이 환자 증 치료 시작과 함께 AST 또는 ALT의 중증도가 2등급인 경우. AST 또는 ALT가 기저치 대비 50% 이상 증가하고 일주일 이상 지속된다면 투여 중단해야 한다.

Colitis 결장염	2등급 또는 3등급: 투여 중지. 중증도 등급 0 또는 1로 회복 시 재 투여 4등급: 영구 투여 중단
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Exfoliative dermatologic conditions 탈락성 피부 병태 (예:SJS,TEN,DRESS)	의상: 모든 등급에 대해 투여 중지. 확진되지 않고 중증도 등급 0 또는 1로 회복 시 재 투여. 확진: 영구 투여 중단
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# 치료 차수에 상관없이 모든 dMMR 자궁내막암에 급여 가능한 면역치료제, 젬퍼리 1-7

Jemperli  
(dostarlimab) Injection 500 mg

## ❖ 허가사항

### 1차 치료 (젬퍼리+카보플라틴+파클리타셀 병용요법):

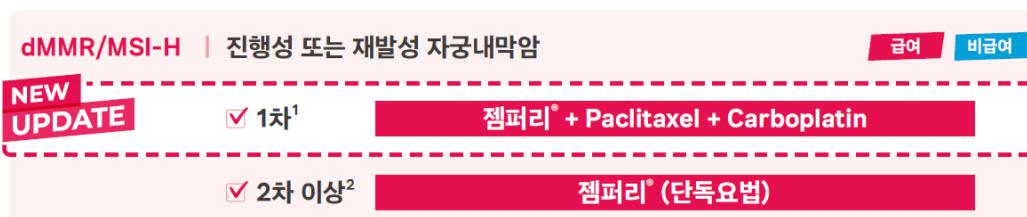
- ▶ 새로 진단된 진행성 또는 재발성 자궁내막암<sup>1</sup>이 있는 성인환자의 치료<sup>2</sup>

### 2차 치료 (젬퍼리 단독요법):

- ▶ 이전 백금기반 전신 화학요법의 치료 종이거나 치료 후 진행을 나타낸 재발성 또는 진행성 불일치 복구결함(mismatch repair deficient, dMMR)/고빈도 현미부수체 불안정(microsatellite instability-high, MSI-H) 자궁내막암이 있는 성인 환자의 치료<sup>2</sup>

References. 식품의약품안전처. 젬퍼리주 의약품상세정보.

## ❖ 급여사항



투여 단계 | 1차 (first line)

항암 요법 | **Dostarlimab** + paclitaxel + carboplatin

투여 대상 | **진행성(FIGO stage III이상)** 또는 **재발성 자궁내막암**으로 다음을 모두 만족하는 경우

- dMMR/MSI-H인 자궁내막암
- 진행성 자궁내막암 중 FIGO Stage IIIA-IIIC1의 경우는 평가 혹은 측정 가능한 병변이 존재(단, 병기 IIIC1 진행성 암육종, 장액성, 투명세포, 혼합형(암육종, 장액성, 투명세포 ≥10% 이상), 또는 병기 IIIC2-IV 자궁내막암의 경우는 평가 혹은 측정 가능한 병변 유무 상관 없음)

※ 선행화학요법/수술후보조요법 치료 종료 후 6개월 이후 재발한 경우 포함

※ 이전 PD-1 inhibitor, PD-L1 inhibitor, PD-L2 inhibitor 치료를 받지 않은 경우에 한함

급여 기간 | 1년까지(단, 질병진행시 중단) 급여인정 하되, 1년 내에 최적의 투여기간에 대한 임상결과 미 발표 시 자동 연장하여 최대 2년으로 함.

References. 1. 보건복지부. 고시 제2025-210호. 2. 건강보험심사평가원 공고 제2023-279호. 3. 건강보험심사평가원. 제2025-133호. 암환자에게 처방·투여하는 약제에 대한 공고 개정안내. 개정일: 2025년 6월 5일.

# RUBY trial- Key Takehome message

1

The primary endpoints were **PFS** as assessed by the investigator according to RECIST ver1.1, and **OS**.<sup>1</sup>

2

**Long-term follow-up study** where expected median duration of follow-up was **37.2 months** in the overall population.<sup>2</sup>

3

Including **high-risk patients** such as **carcinosarcoma**.<sup>1</sup>

4

Recurrence or PD within **6 months** of completing systemic anticancer therapy treatment prior to first dose on the study.<sup>1</sup>

5

The phase 3 trial to demonstrate **statistically significant OS improvement** (**HR 0.69** in the overall population (95% CI, 0.54-0.89) stratified log-rank  $P=0.002$ ) in primary advanced or recurrent EC.<sup>2</sup>

6

**Frontline use of dostarlimab + CP in MMRp/MSS provides optimal survival outcomes** regardless of subsequent treatment

Jemperli+CP regimen is reimbursed in dMMR/MSI-H primary advanced / recurrent EC patients in Korea.

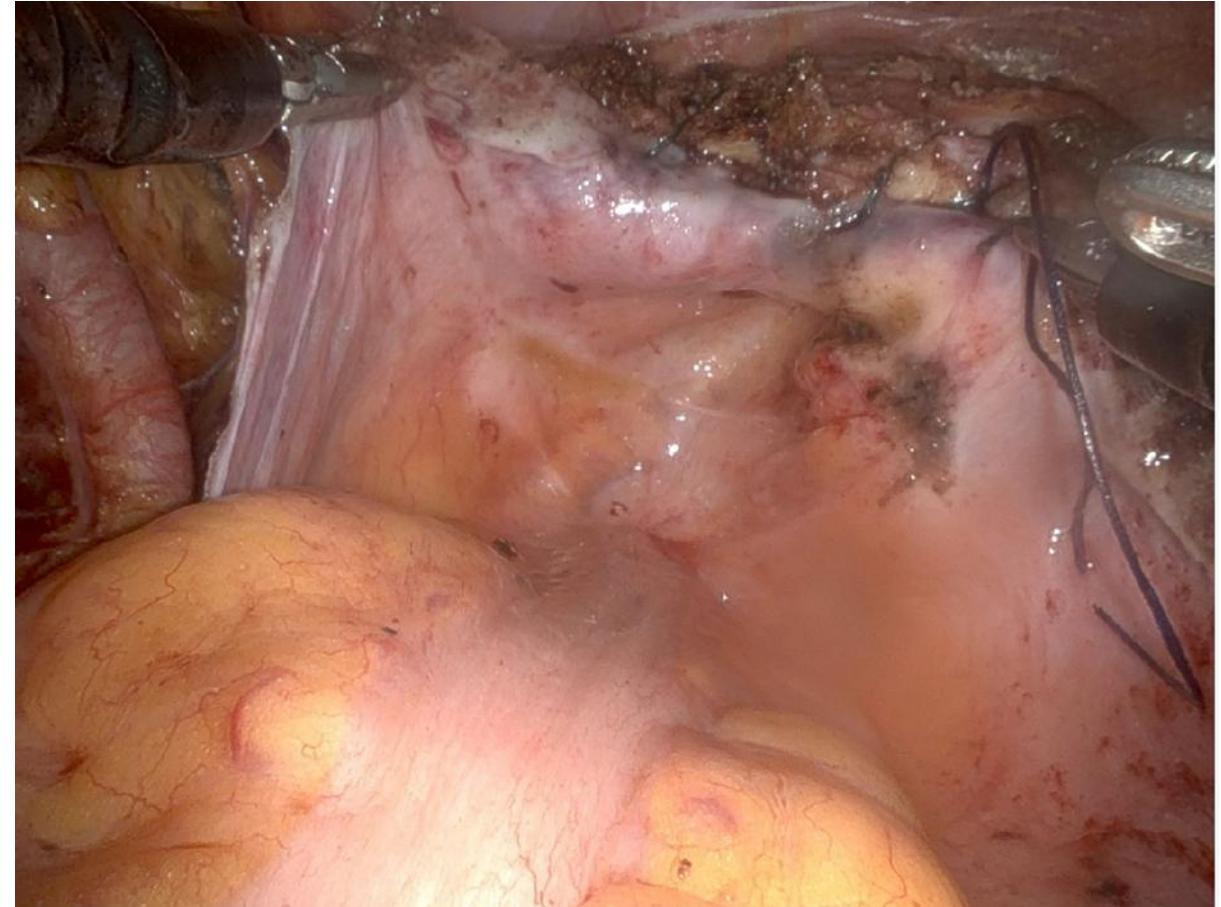
# Case sharing #1 – MMRp

- 71 세 Carcinosarcoma
- Carcinosarcom, stage IIIA or IVB (epithelial component serous (30%), mesenchymal component undifferentiated sarcoma (70%), osteosarcoma (1%))
- 2024-12-27 primary debulking (TAH BSO omentectomy PALD BPLD)
- pMMR, PD-L1 (CPS:7, TPS:1%), HER2 (2+), p53 aberrant
- tNGS (TP53, TAT1, FBXW7, PIK3R1, DNMT3A, ERBB3, GLI1, AKT2), MSS (1.59%)
- 2025-1-16 ~ paclitaxel + carboplatin + dostarlimab
- 현재 C12 dostarlimab 1000 mg q 6 weeks 유지 중



## Case sharing #2 – MMRp

- 53 YO, 10년 전 유방암 과거력
- Endometrioid G1, stage IIIB2
- 2024-8-30 SP staging (TLH BSO bilateral pelvic sentinel LN biopsy, peritonectomy)
- pMMR, p53 WT
- tNGS (TP53, NFE2L2), MSS (2.36%)
- 2024-9-13 ~ paclitaxel + carboplatin + dostarlimab
- 현재 C15 dostarlimab 1000 mg q 6 weeks 유지 중



# THANK YOU

