

Endometrial Cancer: Highlight Reel

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Biomarker-directed systemic therapy for second-line treatment	 Lenvatinib/pembrolizumab (category 1) for non–MSI-high [MSI-H]/non–MMR-deficient [dMMR] tumors^{j,9} Pembrolizumab^k for TMB-H¹⁰ or MSI-H/dMMR tumors^{l,11} 	 Nivolumab for dMMR/MSI-H tumors¹² Dostarlimab-gxly for dMMR/MSI-H tumors^{m,13} Larotrectinib or entrectinib for NTRK gene fusion-positive tumors (category 2B)^e Avelumab for dMMR/MSI-H tumors Cabozantinib 		

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Note: All recommendations are category 2A unless otherwise indicated.
Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.

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SYSTEMIC THERAPY FOR ENDOMETRIAL CARCINOMA

Hormone Therapy ⁿ				
Preferred Regimens	Other Recommended Regimens	Useful in Certain Circumstances		
 Medroxyprogesterone acetate/tamoxifen (alternating) Megestrol acetate/tamoxifen (alternating) Progestational agents Medroxyprogesterone acetate Megestrol acetate Levonorgestrel intrauterine device (IUD) (for select fertility-sparing cases) Aromatase inhibitors Tamoxifen Fulvestrant 	Everolimus/letrozole (for endometrioid histology)	N/A		

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A multicenter, open-label, randomized, phase 3 study to compare the efficacy and safety of lenvatinib in combination with pembrolizumab vs treatment of physician's choice in patients with advanced endometrial cancer: Study 309/KEYNOTE-775

Vicky Makker¹; Nicoletta Colombo²; Antonio Casado Herráez³; Alessandro D. Santin⁴; Emeline Colomba⁵; David S. Miller⁶; Keiichi Fujiwara⁷; Sandro Pignata⁸; Sally Baron-Hay⁹; Isabelle Ray-Coquard¹⁰; Ronnie Shapira-Frommer¹¹; Kimio Ushijima¹²; Jun Sakata¹³; Kan Yonemori¹⁴; Yong Man Kim¹⁵; Eva M. Guerra¹⁶; Ulus A. Sanli¹⁷; Mary M. McCormack¹⁸; Jie Huang¹⁹; Alan D. Smith²⁰; Stephen Keefe²¹; Lea Dutta¹⁹; Robert J. Orlowski²¹; Domenica Lorusso²²

¹Memorial Sloan Kettering Cancer Center, New York, NY, USA; ²University of Milan-Bicocca, European Institute of Oncology IRCCS, Milan, Italy; ³San Carlos University Teaching Hospital, Madrid, Spain; ⁴Yale University School of Medicine, New Haven, CT, USA; ⁵Gustave Roussy Cancerology Institute, Villejuif, GINECO group, France; ⁶University of Texas Southwestern Medical Center, Dallas, TX, USA; ⁷Saitama Medical University International Medical Center, Hidaka, Japan; ⁸Istituto Nazionale Tumori IRCCS-Fondazione G. Pascale, Naples, Italy; ⁹Royal North Shore Hospital, St. Leonards, Australia; ¹⁰Centre Léon-Bérard, University Claude Bernard, Lyon, GINECO group, France; ¹¹Sheba Medical Center, Ramat, Israel; ¹²Kurume University School of Medicine, Kurume, Japan; ¹³Aichi Cancer Center Hospital, Nagoya, Japan; ¹⁴National Cancer Center Hospital: Kokuritsu Gan Kenkyu Center Chuo Byoin, Tokyo, Japan; ¹⁵Asan Medical Center, University of Ulsan, Seoul, Korea; ¹⁶Hospital Universitario Ramón y Cajal, Madrid, Spain; ¹⁷Ege University, Izmir, Turkey; ¹⁸University College London Hospitals NHS Foundation Trust, London, United Kingdom; ¹⁹Eisai Inc., Woodcliff Lake, NJ, USA; ²⁰Eisai Ltd., Hatfield, United Kingdom; ²¹Merck & Co., Inc., Kenilworth, NJ, USA; ²²Fondazione Policlinico Universitario Agostino Gemelli IRCCS, Rome, Italy







Highlight Reel Study Design

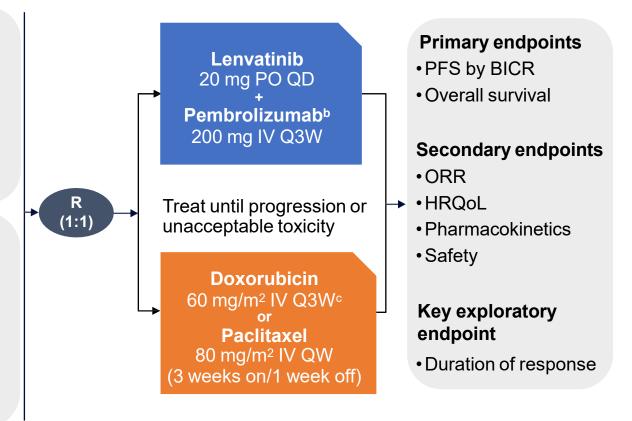
Key eligibility criteria

- Advanced, metastatic, or recurrent endometrial cancer
- Measurable disease by BICR
- 1 Prior platinum-based CT^a
- ECOG PS 0-1
- Tissue available for MMR testing

Stratification factors

MMR status (pMMR vs dMMR) and further stratification within pMMR by:

- Region (R1: Europe, USA, Canada, Australia, New Zealand, and Israel, vs R2: rest of the world)
- ECOG PS (0 vs 1)
- Prior history of pelvic radiation (Y vs N)



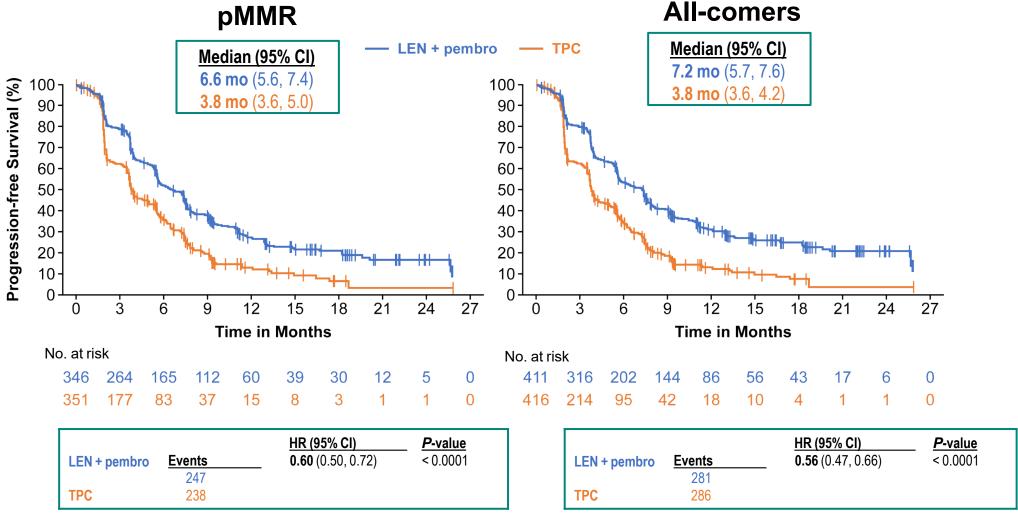
^aPatients may have received up to 2 prior platinum-based CT regimens if 1 is given in the neoadjuvant or adjuvant treatment setting. ^bMaximum of 35 doses. Maximum cumulative dose of 500 mg/m².

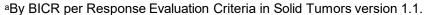
BICR, blinded independent central review; ECOG PS, Eastern Cooperative Oncology Group performance status; HRQoL, health-related quality of life; IV, intravenous; PFS, progression-free survival; pMMR, mismatch repair-proficient; ORR, objective response rate; PO, per os (by mouth); QD, once daily; Q3W, every 3 weeks; QW, once weekly.





Progression-free Survivala

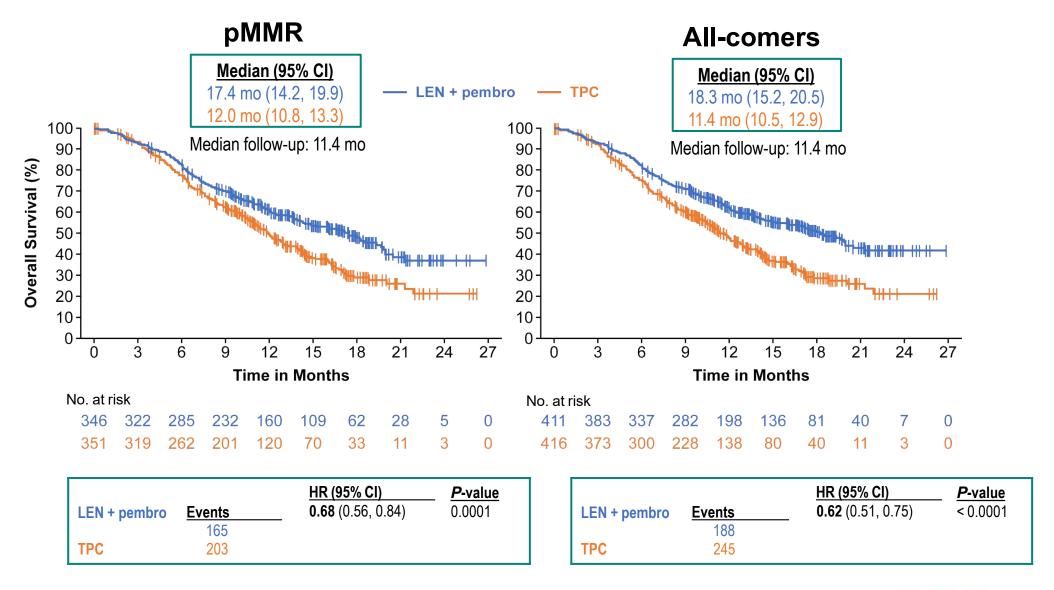








Highlight Reel Overall Survival







Treatment Exposure, Safety, and Discontinuation in All-comers

	LEN + pembro (n = 406)	TPC (n = 388)
Median duration of treatment (range), days	231 (1-817)	104.5 (1-785)
Patients with any TEAEs, % Grade ≥ 3	99.8 88.9	99.5 72.7
Patients with any TEAEs leading to dose reductions, % ^a	66.5	12.9
Patients with any-grade TEAEs leading to interruption, % ^b LEN ^c	69.2	27.1
Pembro ^c LEN + pembro	50.0 30.8	
Patients with any-grade TEAEs leading		
to discontinuation, %b	33.0	8.0
LEN° Pembro°	18.7	
LEN + pembro	14.0	

alncludes LEN only or TPC. blncludes LEN or pembro or LEN + pembro or TPC. cRegardless of action taken with the other drug in the combination arm.

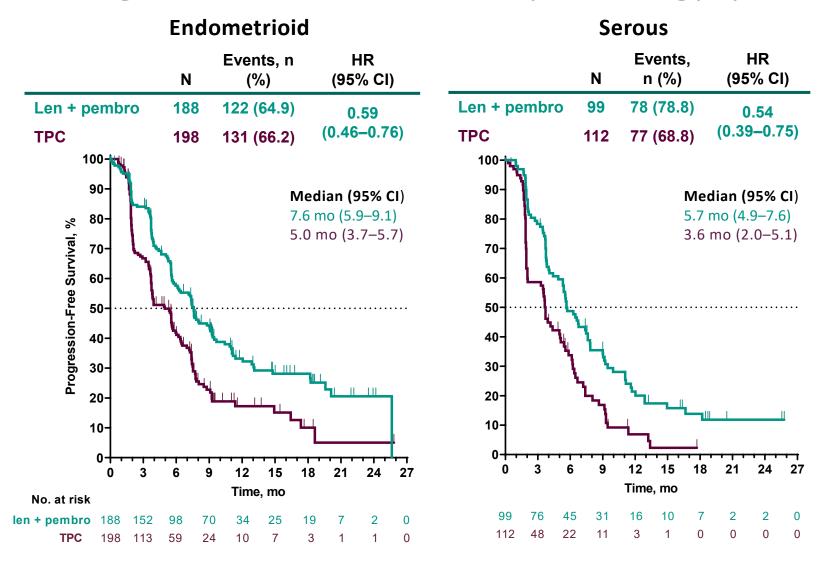
Outcomes by Histology and Prior Therapy With Lenvatinib Plus Pembrolizumab vs Treatment of Physician's Choice in Patients With Advanced Endometrial Cancer (Study 309/KEYNOTE-775)

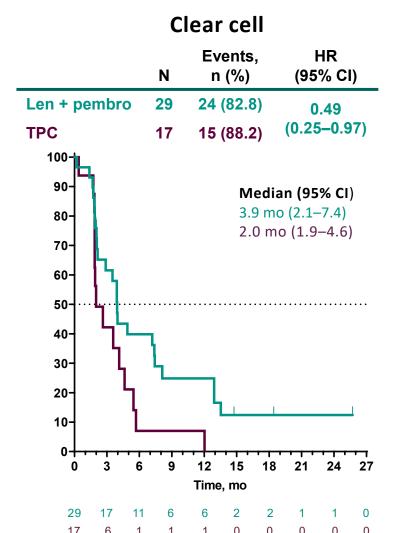
<u>Nicoletta Colombo¹</u>; Domenica Lorusso²; Antonio Casado Herráez³; Alessandro D. Santin⁴; Emeline Colomba⁵; David S. Miller⁶; Keiichi Fujiwara⁷; Sandro Pignata⁸; Anne Floquet⁹; Bradley J. Monk¹⁰; Susana Banerjee¹¹; Richard T. Penson¹²; Rebecca Kristeleit¹³; Michel Fabbro¹⁴; Mauro Orlando¹⁵; Helen Mackay¹⁶; Erin Jensen¹⁷; Lea Dutta¹⁸; Robert Orlowski¹⁷; Vicky Makker¹⁹

¹University of Milan-Bicocca, European Institute of Oncology IRCCS, Milan, Italy; ²Fondazione Policlinico Universitario Agostino Gemelli IRCCS, Rome, Italy; ³San Carlos University Teaching Hospital, Madrid, Spain; ⁴Yale University School of Medicine, New Haven, CT, USA; ⁵Gustave Roussy Cancerology Institute, Villejuif, GINECO group, France; ⁶University of Texas Southwestern Medical Center, Dallas, TX, USA; ¬Saitama Medical University International Medical Center, Hidaka, Japan; ¬Stituto Nazionale Tumori IRCCS-Fondazione G. Pascale, Naples, Italy; ¬Institut Bergonié, Bordeaux, France; ¬Arizona Oncology, Phoenix, AZ, USA; ¬The Royal Marsden NHS Foundation Trust and Institute of Cancer Research, London, UK; ¬Alassachusetts General Hospital, Boston, MA, USA; ¬Guy's and St Thomas' NHS Foundation Trust, London, UK; ¬Alassachusetts General Hospital, Boston, MA, USA; ¬Guy's and St Thomas' NHS Foundation Trust, London, UK; ¬Alassachusetts General Hospital, Boston, Ma, USA; ¬Guy's and St Thomas' NHS Foundation Trust, London, UK; ¬Alassachusetts General Hospital, Boston, MA, USA; ¬Guy's and St Thomas' NHS Foundation Trust, London, UK; ¬Alassachusetts General Hospital, Boston, MA, USA; ¬Guy's and St Thomas' NHS Foundation Trust, London, UK; ¬Guy's Alassachusetts General Hospital, Boston, MA, USA; ¬Guy's and St Thomas' NHS Foundation Trust, London, UK; ¬Guy's Alassachusetts General Hospital, Boston, MA, USA; ¬Guy's and St Thomas' NHS Foundation Trust, London, UK; ¬Guy's Alassachusetts General Hospital, Boston, MA, USA; ¬Guy's and St Thomas' NHS Foundation Trust, London, UK; ¬Guy's Alassachusetts General Hospital, Boston, MA, USA; ¬Guy's Alassachusetts General Hospital, MA, USA; ¬Guy's Ala



Progression-Free Survival^a by Histology: pMMR









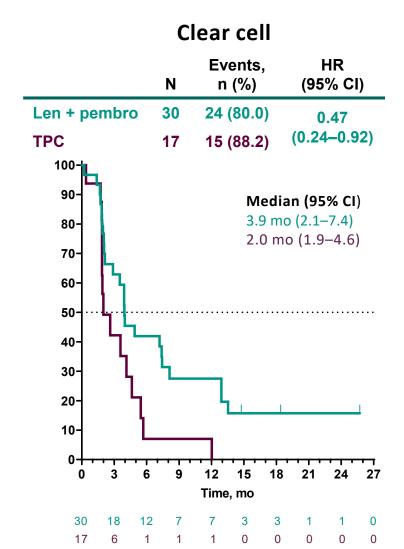
Progression-Free Survival^a by Histology: All-Comers

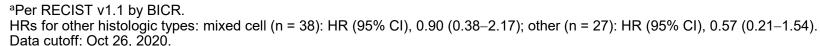
Endometrioid Serous HR Events, n Events, HR (%) (95% CI) n (%) (95% CI) Ν Ν Len + pembro 243 150 (61.7) Len + pembro 103 81 (78.6) 0.52 0.53 (0.41 - 0.65)(0.38 - 0.72)**TPC** 173 (68.1) **TPC** 80 (69.6) 254 100-100-90-90-Median (95% CI) Median (95% CI) 7.6 mo (6.3–9.3) 5.7 mo (4.9–7.6) 80-80-Progression-Free Survival, % 3.9 mo (3.7-5.6) 3.6 mo (2.1-5.0) 70-70-60-50 50-40-30-30-20-10-10-12 15 18 21 18 21 24 24 27 12 15 Time, mo Time, mo No. at risk len + pembro 243

115

50

22





69

28

12



PFSa by Prior Therapy and PFI: pMMR and All-Comers

Subgroup	Events/N		HR for OS (95% CI)	Subgroup	Events/N		HR for OS (95% CI)
1 prior line of platinum		ı	VOTEN DELOC	PFI ≥6 months		83	¥7
pMMR	370/526	₩	0.54 (0.44-0.67)	pMMR	158/240		0.59 (0.43-0.81)
All-comer	446/641	-	0.50 (0.41-0.61)	All-comer	173/270	-	0.55 (0.41-0.75)
>1 prior line of platinum				PFI <6 months			
pMMR	114/170	-	0.75 (0.52-1.09)	pMMR	323/451	-	0.57 (0.45-0.71)
All-comer	120/185	-	0.69 (0.48-0.99)	All-comer	390/550		0.51 (0.42-0.63)
Received (neo)adjuvant t	herapy			PFI ≥12 months			
pMMR	190/258		0.58 (0.43-0.78)	pMMR	67/99	-	→ 0.74 (0.45–1.20)
All-comer	217/303		0.55 (0.42-0.73)	All-comer	70/111	-	→ 0.72 (0.45–1.16)
No (neo)adjuvant therapy	\$1			PFI <12 months			
pMMR	295/439		0.60 (0.47-0.76)	pMMR	414/592		0.56 (0.46-0.68)
All-comer	350/524		0.54 (0.44-0.67)	All-comer	493/709		0.50 (0.42-0.60)
	0.1		10		0.1		110
	Favors len	+ pembro	Favors TPC		Favors ler	+ pembro	Favors TPC



Summary

- Lenvatinib + pembrolizumab provided a PFS and OS benefit compared with TPC in patients with previously treated, advanced endometrial cancer, including in patients with pMMR status and all-comers and regardless of
 - Histology, including difficult-to-treat histologies (i.e., clear cell carcinoma)
 - Prior (neo)adjuvant treatment
 - PFI
- Patients with 1 prior line of platinum therapy had more favorable HRs for OS and PFS than those with >1 prior line of platinum therapy, supporting earlier use of lenvatinib + pembrolizumab
- Because these were post hoc analyses, the results should be interpreted with caution



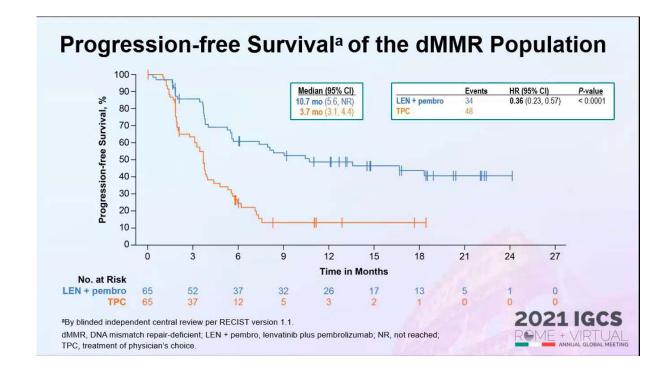
Randomized Phase 3 Study of Lenvatinib Plus Pembrolizumab for Advanced Endometrial Cancer: Subgroup Analysis of Patients with DNA Mismatch Repair-Deficient Tumors

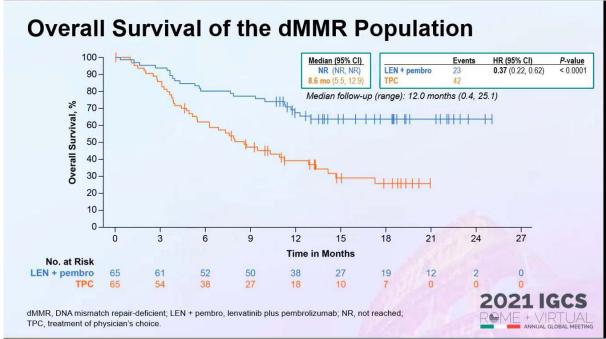
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Department of Medicine, Memorial Sloan Kettering Cancer Center; Weill Cornell Medical Center, New York, NY, USA; ²Gynecologic Oncology Program, University of Milan-Bicocca, European Institute of Oncology IRCCS, Milan, Italy; ³Department of Medical Oncology, San Carlos University Teaching Hospital, Madrid, Spain; ⁴Department of Obstetrics, Gynecology & Reproductive Sciences, Yale University School of Medicine, New Haven, CT, USA; ⁵Department of Cancer Medicine, Gustave Roussy Cancerology Institute, Villejuif, GINECO group, France; ⁶Gynecologic Oncology, University of Texas Southwestern Medical Center, Dallas, TX, USA; ⁷Department of Gynecologic Oncology, Saitama Medical University International Medical Center, Hidaka, Japan; ⁸Department of Urology & Gynecology, Istituto Nazionale Tumori IRCCS-Fondazione G. Pascale, Naples, Italy; ⁹Gynaecology Unit, The Royal Marsden NHS Foundation Trust, London, UK; ¹⁰Gynecologic Oncology, Obstetrics and Gynecology, Arizona Oncology, Phoenix, AZ, USA; ¹¹Department of Obstetrics and Gynecology, Kurume University School of Medicine, Kurume, Japan; ¹²Division of Hematology and Oncology, Harvard Medical School, Massachusetts General Hospital, Boston, MA, USA; ¹³Department of Oncology, Guy's and St Thomas' NHS Foundation Trust, London, UK; ¹⁴Service de radiothérapie, Institut Régional du Cancer de Montpellier, Montpellier, France; ¹⁵Oncologo Medico, Instituto Alexander Fleming, Buenos Aires, Argentina; ¹⁶Medical Oncology, Odette Cancer Centre, Sunnybrook Health Sciences Centre, Toronto, Canada; ¹⁷Biostatistics, Oncology Business Group, Eisai Inc., Woodcliff Lake, NJ, USA; ¹⁸Late Stage Clinical Development, Merck & Co., Inc., Kenilworth, NJ, USA; ¹⁹Clinical Research, Eisai Inc., Woodcliff Lake, NJ, USA; ²⁰Division of Gynecologic Oncology, Fondazione Policlinico

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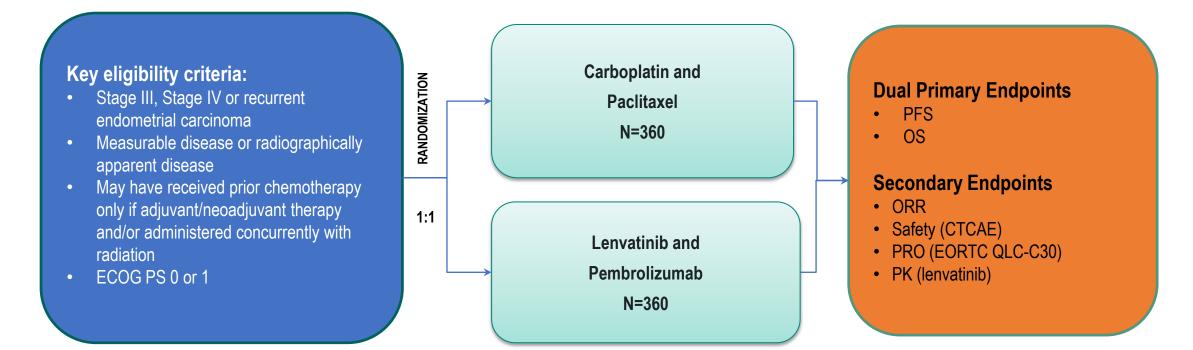
Conclusions

- Efficacy in the dMMR population of patients with aEC appeared to improve with LEN + pembro, at least consistent with that of patients in both the pMMR and all-comers populations previously reported1
 - PFS, OS, and ORR were improved with LEN + pembro compared to treatment of physician's choice
 - Notably, ~14% of patients treated with LEN + pembro had a complete response
- LEN + pembro had a manageable safety profile in the dMMR population and was generally consistent with that observed in the all-comers population and the established safety profiles of the individual monotherapies1





What's Next for Lenvatinib/Pembrolizumab: LEAP-001: First-line metastatic recurrent Phase 3



Stratification factors:

- MMR status (pMMR v dMMR), if pMMRR:
 - Measurable disease (yes or no)
 - ECOG (0 vs 1)
 - Prior chemotherapy and/or chemoradiation (yes or no)

PI: C. Marth

ClinicalTrials.gov: NCT04865289 Activated October 22, 2019 Accrual complete except for China expansion



Analysis of Antitumor Activity of Dostarlimab by Tumor Mutational Burden in Patients with Endometrial Cancer in the GARNET Trial

Ana Oaknin, Lucy Gilbert, Anna V. Tinker, Jubilee Brown, Cara Mathews, Joshua Z. Press, Renaud Sabatier, David M. O'Malley, Vanessa Samouëlian, Valentina Boni, Linda Duska, Sharad Ghamande, Prafull Ghatage, Rebecca Kristeleit, Charles Leath III, Xinwei Han, Sujatha Kumar, Tao Duan, Ellie Im, Bhavana Pothuri

Objective:

To examine the antitumor activity of dostarlimab in patients with dMMR/MSI-H or MMRp/microsatellite stable (MSS) EC by TMB status





Conclusions

- TMB-high (TMB-H) status and dMMR/MSI-H status show substantial overlap in the patient populations with EC
- TMB-H and dMMR/MSI-H EC have similar response rates
- Notably, the objective response rate (ORR) ofpatients with mismatch repair proficient (MMRp) and TMB-H EC was comparable to the ORR of patients with dMMR/MSI-H and TMB-H EC
- TMB-H status in the patients with MMRp EC was not due to MSI-H (hypermutated) or POLε-mutated (ultramutated) status
- The study was not powered to assess antitumor activity by TMB status, and interpretation is limited by the small



Pembrolizumab in Patients With Microsatellite Instability-High (MSI-H) Advanced Endometrial Cancer: Updated Results From KEYNOTE-158

<u>David M. O'Malley</u>¹; Giovanni Mendonca Bariani²; Philippe A. Cassier³; Aurelien Marabelle⁴; Aaron R. Hansen⁵; Ana De Jesus Acosta⁶; Wilson H. Miller, Jr⁷; Tamar Safra⁸; Antoine Italiano⁹; Linda Mileshkin¹⁰; Lei Xu¹¹; Fan Jin¹¹; Kevin Norwood¹¹; Michele Maio¹²

¹The Ohio State University Wexner Medical Center and The James Comprehensive Cancer Center, Columbus, OH, USA; ²Instituto do Câncer do Estado de São Paulo, Universidade de São Paulo, São Paulo, Brazil; ³Centre Léon Bérard, Lyon, France; ⁴Gustave Roussy, Institut National de la Santé et de la Recherche Médicale U1015, Villejuif, France; ⁵Princess Margaret Cancer Centre, Toronto, ON, Canada; ⁶Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, Baltimore, MD, USA; ¬Segal Cancer Centre, Jewish General Hospital, Rossy Cancer Network, and McGill University, Montreal, QC, Canada; ⁶Tel Aviv Medical Center, Tel Aviv and Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel; ⁶Early Phase Trials and Sarcoma Units, Institut Bergonie, Bordeaux, France; ¹⁰Peter MacCallum Cancer Centre, Melbourne, VIC, Australia; ¹¹Merck & Co., Inc., Kenilworth, NJ, USA; ¹²Center for Immuno-Oncology, University Hospital of Siena, Italy

Summary

- Pembrolizumab demonstrated robust and clinically meaningful antitumor activity in patients with previously treated MSI-H/dMMR advanced endometrial cancer
 - ORR, 48%
 - Estimated DOR ≥3 years, 68%
- Survival outcomes after treatment with pembrolizumab were encouraging, with 60% estimated to be alive at 4 years
- Toxicity was manageable and consistent with that previously observed for pembrolizumab in patients with advanced solid tumors
- Pembrolizumab monotherapy represents a promising treatment option for patients with previously treated MSI-H/dMMR advanced endometrial cancer



What's Next for dMMR: GOG 3064/ ENGOT—en15/MK KN-C93 Proposed Study Design 1L dMMR platinum doublet chemotherapy vs pembro (with formal cross over)

Phase 3, multi-center, randomized, open-label

Key Eligibility Criteria:

- Stage III or IV, persistent/ recurrent, or metastatic EC
- Measurable/non-measurable disease (radiologically apparent)
- dMMR
- No previous chemo for adjuvant or first line except as part of radiosensitizing
- ECOG 0-1

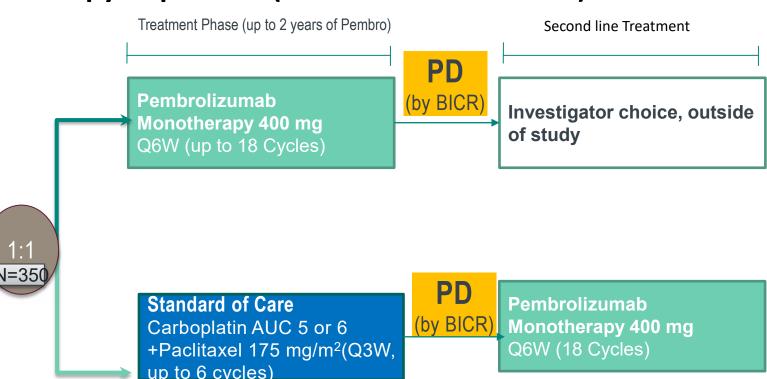
Stratification factors:

- Newly diagnosed advanced EC vs Recurrent EC
- Histology endometrioid vs. non-endometrioid

PI: B. Slomovitz co-PI: F. Backes

Clinicaltrials.gov #: TBD

Shared with permission from sponsor



*Participants who were randomized to Arm 2 (chemotherapy) and experience BICR-assessed disease progression per RECIST 1.1, will have an opportunity to participate in the Crossover Phase to receive up to 18 cycles of pembrolizumab 400 mg Q6W, upon Sponsor consultation

Dual Primary Endpoints

- PFS (by BICR)
- 03

Secondary Endpoints

- ORR (by BICR)
- DCR
- DOR
- PFS by investigator
- PFS2
- QOL
- 5





INTENSIVE VERSUS MINIMALIST FOLLOW-UP
IN PATIENTS TREATED FOR ENDOMETRIAL CANCER:
A MULTICENTRIC RANDOMIZED CONTROLLED TRIAL
THE TOTEM STUDY - NCT00916708

Paolo Zola,

TOTEM trial: aims

To compare with a randomized trial an intensive (INT) vs minimalist (MIN) 5-year follow-up regimen in endometrial cancer patients in terms of overall survival (OS)



CONCLUSIONS

INTENSIVE FOLLOW-UP IN ENDOMETRIAL CANCER
TREATED PATIENTS DOES NOT IMPROVE OS, EVEN IN HIR
PATIENTS

THE HRQL, IN OUR STUDY, IS NOT INFLUENCED BY DIFFERENT REGIMENS OF FOLLOW-UP

ACCORDING TO OUR DATA THERE IS NO NEED TO ROUTINELY ADD VAGINAL CYTOLOGY, LABORATORY OR IMAGING INVESTIGATIONS TO THE MINIMALIST REGIMENS USED IN THIS TRIAL

"The best way to predict the future is to create it"

Abraham Lincoln



Endometrial Cancer: Active Trials

- 2 trials of immunotherapy in the adjuvant setting
- 5 first line trials
 - 3 trials chemo vs. chemo and I/O (and PARP)
 - LEAP trial: combination I/O vs chemotherapy
 - 3064/c93: single agent I/O vs chemotherapy
 - Selinexor maintenance trial
- Multiple I/O and biomarker second line trials





Current Standard of Care

- Adjuvant:
 - Chemotherapy +/- XRT
- First-line metastatic or recurrent:
 - Chemotherapy (+ trastuzumab for HER2 + USC)
- Second-line:
 - dMMR: single agent I/O
 - pMMR: pembrolizumab and Lenvatinib
- Third-line and beyond:
 - Hormonal therapy (mTOR, CDK 4/6)
 - 2nd line chemotherapy





Predicting Future in First Line Recurrent

	Chemo + I/O +/- PARP	LEAP-001	B21 or GY020 – Adjuvant Pembro in HR	IMPACT
Scenario #1	Positive	Positive		I/O 1 st line
	Positive	Negative		I/O 1 st line
Scenario #3	Negative	Positive		I/O 1 st line
Scenario #4	Negative	Negative		No change
Scenario #5	Positive or Negative	Positive or Negative	Positive	I/O adjuvant

- I/O after I/O?
- May move Biomarker/Hormonal therapy to 2nd line?
- MSI-H/dMMR in adjuvant setting
 - In MSI/dMMR, do we need chemo?





The Future is Bright



