

# **What I Tell My Patients: New Treatments and Clinical Trial Options**

*An NCPD Hybrid Symposium Series  
Held During the 47<sup>th</sup> Annual ONS Congress*

## **Cervical and Endometrial Cancer**

**Saturday, April 30, 2022**

**6:00 AM – 7:30 AM PT**

### **Faculty**

**Paula J Anastasia, MN, RN, AOCN**

**Robert L Coleman, MD**

**David M O'Malley, MD**

**Jaclyn Shaver, MS, APRN, CNP, WHNP**

### **Moderator**

**Neil Love, MD**

# Faculty



**Paula J Anastasia, MN, RN, AOCN**  
GYN Oncology Advanced Practice Nurse  
University of California, Los Angeles  
Los Angeles, California



**Jaclyn Shaver, MS, APRN, CNP, WHNP**  
Section of Gynecologic Oncology  
Stephenson Cancer Center  
OU Health  
Oklahoma City, Oklahoma



**Robert L Coleman, MD**  
Chief Scientific Officer  
US Oncology Research  
Gynecologic Oncology  
The Woodlands, Texas



**Moderator**  
**Neil Love, MD**  
Research To Practice  
Miami, Florida



**David M O'Malley, MD**  
Professor  
Division Director, Gynecologic Oncology  
The Ohio State University and The James Cancer Center  
Columbus, Ohio

## Ms Anastasia — Disclosures

<b>Advisory Committee and Consulting Agreement</b>	Merck
<b>Speakers Bureau</b>	Genentech, a member of the Roche Group, Seagen Inc

## Dr Coleman — Disclosures

<b>Advisory Committee</b>	Agenus Inc, AstraZeneca Pharmaceuticals LP, Genentech, a member of the Roche Group, Janssen Biotech Inc, Merck, Novartis, OncXerna Therapeutics Inc, Onxeo
<b>Consulting Agreements</b>	AbbVie Inc, Agenus Inc, Alkermes, AstraZeneca Pharmaceuticals LP, Clovis Oncology, Eisai Inc, Genentech, a member of the Roche Group, Genmab, GlaxoSmithKline, Gradalis Inc, ImmunoGen Inc, Incyte Corporation, Janssen Biotech Inc, Merck, Myriad Genetic Laboratories Inc, Novartis, OncXerna Therapeutics Inc, Onxeo, Seagen Inc
<b>Contracted Research</b>	AstraZeneca Pharmaceuticals LP, Clovis Oncology, Genentech, a member of the Roche Group, ImmunoGen Inc, Merck, Novartis
<b>Data and Safety Monitoring Board/Committee</b>	GOG Foundation Inc, VBL Therapeutics
<b>Employment</b>	Texas Oncology

# Dr O'Malley — Disclosures

<b>Funding for Clinical Research</b>	AbbVie Inc, Agenesis Inc, Ajinomoto Co Inc, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, AstraZeneca Pharmaceuticals LP, Bristol-Myers Squibb Company, Clovis Oncology, Daré Bioscience, Eisai Inc, EMD Serono Inc, Ergomed Plc, Genentech, a member of the Roche Group, Genmab, GOG Foundation Inc, ImmunoGen Inc, Iovance Biotherapeutics, Janssen Biotech Inc, Johnson & Johnson Pharmaceuticals, Ludwig Institute for Cancer Research Ltd, Merck, Merck Serono, Mersana Therapeutics Inc, New Mexico Cancer Care Alliance, Novocure Inc, PRA Health Sciences, Regeneron Pharmaceuticals Inc, Seagen Inc, Stemcentrx, Sumitomo Dainippon Pharma Oncology Inc, Syneos Health, Tesaro, A GSK Company, TRACON Pharmaceuticals Inc, VentiRx Pharmaceuticals Inc, Yale University
<b>Personal Fees (Consulting and/or Advisory Boards)</b>	AbbVie Inc, Ambry Genetics, Amgen Inc, Arquer Diagnostics, AstraZeneca Pharmaceuticals LP, Celsion Corporation, Clovis Oncology, Corcept Therapeutics, Eisai Inc, Elevar Therapeutics, Genentech, a member of the Roche Group, GOG Foundation Inc, ImmunoGen Inc, InxMed, Iovance Biotherapeutics, Janssen Biotech Inc, Johnson & Johnson Pharmaceuticals, Merck, Mersana Therapeutics Inc, Novartis, Novocure Inc, Regeneron Pharmaceuticals Inc, Roche Diagnostics MSA, Seagen Inc, Sorrento Therapeutics, Sumitomo Dainippon Pharma Oncology Inc, Takeda Pharmaceuticals USA Inc, Tesaro, A GSK Company, Toray
<b>Personal Fees</b>	Agenesis Inc, Myriad Genetic Laboratories Inc, Rubis, Tarveda Therapeutics

# Ms Shaver — Disclosures

No relevant conflicts of interest to disclose

## Commercial Support

This activity is supported by educational grants from Genmab and Seagen Inc, and GlaxoSmithKline.

## Research To Practice CME Planning Committee Members, Staff and Reviewers

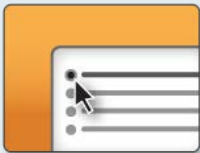
Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose.

# Clinicians in the Meeting Room

**Networked iPads are available.**



**Review Program Slides:** Tap the Program Slides button to review speaker presentations and other program content.



**Answer Survey Questions:** Complete the premeeting survey before the meeting. Survey results will be presented and discussed throughout the meeting.



**Ask a Question:** Tap Ask a Question to submit a challenging case or question for discussion. We will aim to address as many questions as possible during the program.



**Complete Your Evaluation:** Tap the CME Evaluation button to complete your evaluation electronically to receive credit for your participation.

*For assistance, please raise your hand. Devices will be collected at the conclusion of the activity.*

## About the Enduring Program

- The live meeting is being video and audio recorded.
- The proceedings from today will be edited and developed into an enduring web-based video/PowerPoint program.  
An email will be sent to all attendees when the activity is available.
- To learn more about our education programs, visit our website, [www.ResearchToPractice.com](http://www.ResearchToPractice.com)



# **“What I Tell My Patients”**

## **14<sup>th</sup> Annual RTP-ONS NCPD Symposium Series**

### **ONS Congress, Anaheim, California — April 27 - May 1, 2022**

Thursday April 28	<b>Prostate Cancer</b> 6:00 AM – 7:30 AM PT (9:00 AM – 10:30 AM ET)
	<b>Ovarian Cancer</b> 12:15 PM – 1:45 PM PT (3:15 PM – 4:45 PM ET)
	<b>Non-Small Cell Lung Cancer</b> 6:00 PM – 8:00 PM PT (9:00 PM – 11:00 PM ET)
	<b>Hepatobiliary Cancers</b> 8:20 PM – 9:20 PM PT (11:20 PM – 12:20 AM ET)
Friday April 29	<b>Small Cell Lung Cancer</b> 6:00 AM – 7:30 AM PT (9:00 AM – 10:30 AM ET)
	<b>Chronic Lymphocytic Leukemia</b> 12:15 PM – 1:45 PM PT (3:15 PM – 4:45 PM ET)
	<b>Breast Cancer</b> 6:00 PM – 8:00 PM PT (9:00 PM – 11:00 PM ET)
	<b>Acute Myeloid Leukemia and Myelodysplastic Syndromes</b> 8:20 PM – 9:20 PM PT (11:20 PM – 12:20 AM ET)
Saturday April 30	<b>Cervical and Endometrial Cancer</b> 6:00 AM – 7:30 AM PT (9:00 AM – 10:30 AM ET)
	<b>Bladder Cancer</b> 12:15 PM – 1:45 PM PT (3:15 PM – 4:45 PM ET)

# What I Tell My Patients: Expert Insights into Patient Education on New Treatments and Clinical Trial Participation

*An NCPD Hybrid Symposium Series Held During the 47<sup>th</sup> Annual ONS Congress*

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Robert L Coleman, MD

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Jaclyn Shaver, MS, APRN, CNP, WHNP

## **Bladder Cancer**

**Saturday, April 30, 2022**

12:15 PM – 1:45 PM PT (3:15 PM – 4:45 PM ET)

### **Faculty**

Monica Averia, MSN, AOCNP, NP-C

Shilpa Gupta, MD

Brenda Martone, MSN, NP-BC, AOCNP

Sumanta Kumar Pal, MD

# **Join Us After ONS for Our Series Continuation**

## **What I Tell My Patients — A 2-Part NCPD Webinar Series**

### **Hodgkin and Non-Hodgkin Lymphomas**

**Date and time to be announced**

### **Gastroesophageal Cancers**

**Wednesday, May 18, 2022**

**5:00 PM – 6:00 PM ET**

# When was the last time you felt a deep sense of satisfaction from an interaction you had with a patient?

1. Today
2. In the last week
3. In the last two weeks
4. In the last month
5. In the last 6 months

# Faculty



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# Agenda

**Module 1 – Endometrial Cancer**

**Module 2 – Cervical Cancer**

**Module 3 – Clinical Care of Patients Receiving Checkpoint Inhibitors**

**Module 4 – COVID-19: Considerations in Cervical and Endometrial Cancer**

**Module 5 – Oncology 2032 Crystal Ball: Part 1**

# Agenda

**Module 1 – Endometrial Cancer**

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**Module 5 – Oncology 2032 Crystal Ball: Part 1**

# SELF-ASSESSMENT QUIZ

Checkpoint inhibitors are approved and commonly used for cervical and endometrial cancer but not ovarian cancer.

1. Agree
2. Disagree
3. I don't know

# SELF-ASSESSMENT QUIZ

What is the usual second-line treatment for patients with MSI-high metastatic endometrial cancer after first-line chemotherapy?

1. Checkpoint inhibitor
2. Checkpoint inhibitor for increased PD-L1 levels
3. Checkpoint inhibitor/lenvatinib
4. Chemotherapy
5. I don't know

# SELF-ASSESSMENT QUIZ

What is the usual second-line treatment for patients with MSS metastatic endometrial cancer after first-line chemotherapy?

1. Checkpoint inhibitor
2. Checkpoint inhibitor for increased PD-L1 levels
3. Checkpoint inhibitor/lenvatinib
4. Chemotherapy
5. I don't know

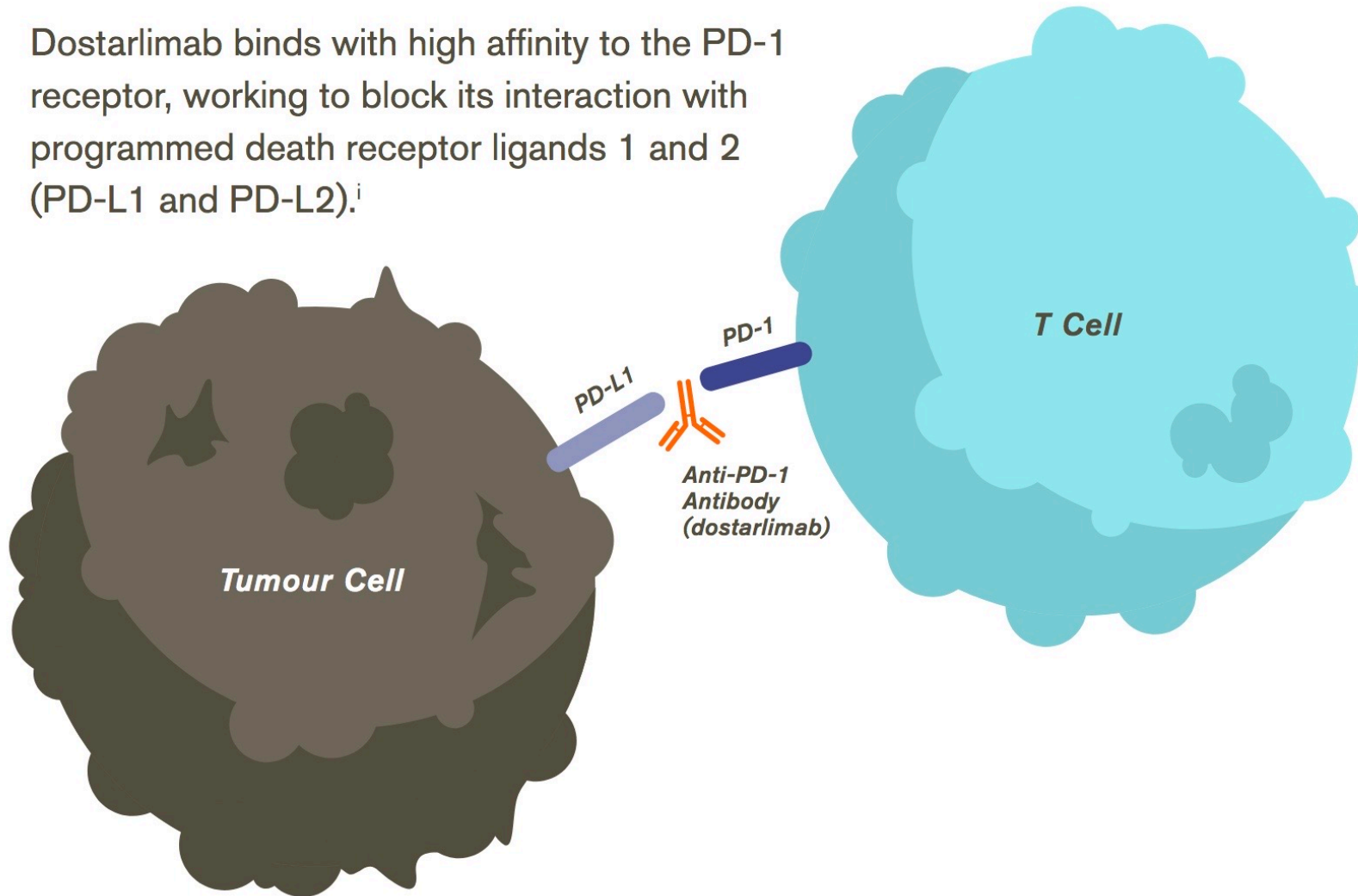
# SELF-ASSESSMENT QUIZ

The rapidity of onset and severity of hypertension associated with lenvatinib is greater than that with bevacizumab.

1. Agree
2. Disagree
3. I don't know


# Dostarlimab Mechanism of Action

Dostarlimab binds with high affinity to the PD-1 receptor, working to block its interaction with programmed death receptor ligands 1 and 2 (PD-L1 and PD-L2).<sup>i</sup>

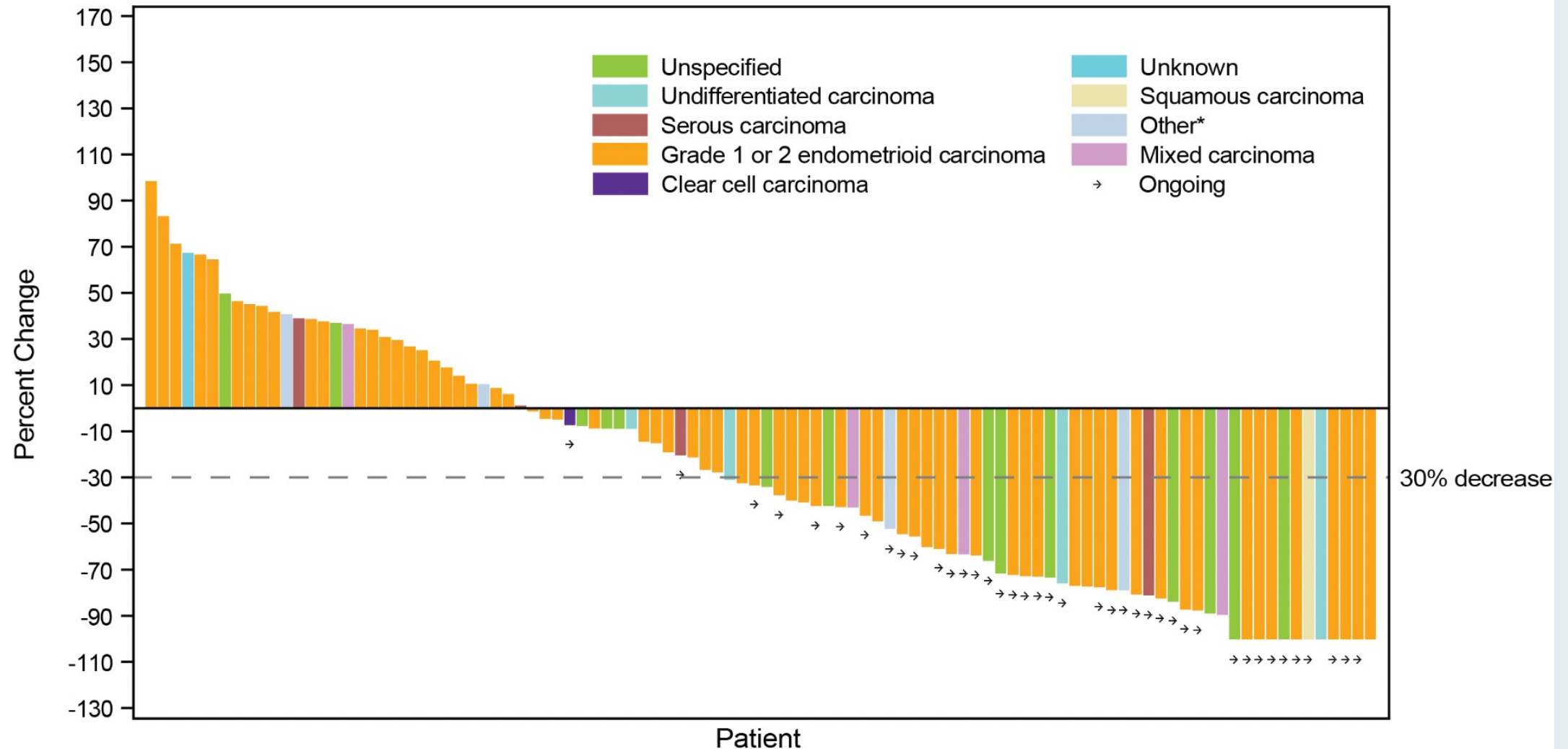


# Safety and antitumor activity of dostarlimab in patients with advanced or recurrent DNA mismatch repair deficient/microsatellite instability-high (dMMR/MSI-H) or proficient/stable (MMRp/MSS) endometrial cancer: interim results from GARNET – a phase I, single-arm study

*Journal for Immunotherapy of Cancer* 2022;10(2):e003777

Ana Oaknin ,<sup>1</sup> Lucy Gilbert,<sup>2</sup> Anna V Tinker,<sup>3</sup> Jubilee Brown,<sup>4</sup> Cara Mathews,<sup>5</sup> Joshua Press,<sup>6</sup> Renaud Sabatier,<sup>7</sup> David M O'Malley,<sup>8</sup> Vanessa Samouelian,<sup>9</sup> Valentina Boni,<sup>10</sup> Linda Duska,<sup>11</sup> Sharad Ghamande,<sup>12</sup> Prafull Ghatage,<sup>13</sup> Rebecca Kristeleit,<sup>14</sup> Charles Leath III,<sup>15</sup> Wei Guo,<sup>16</sup> Ellie Im,<sup>16</sup> Sybil Zildjian,<sup>16</sup> Xinwei Han,<sup>16</sup> Tao Duan,<sup>16</sup> Jennifer Veneris,<sup>16</sup> Bhavana Pothuri<sup>17</sup>

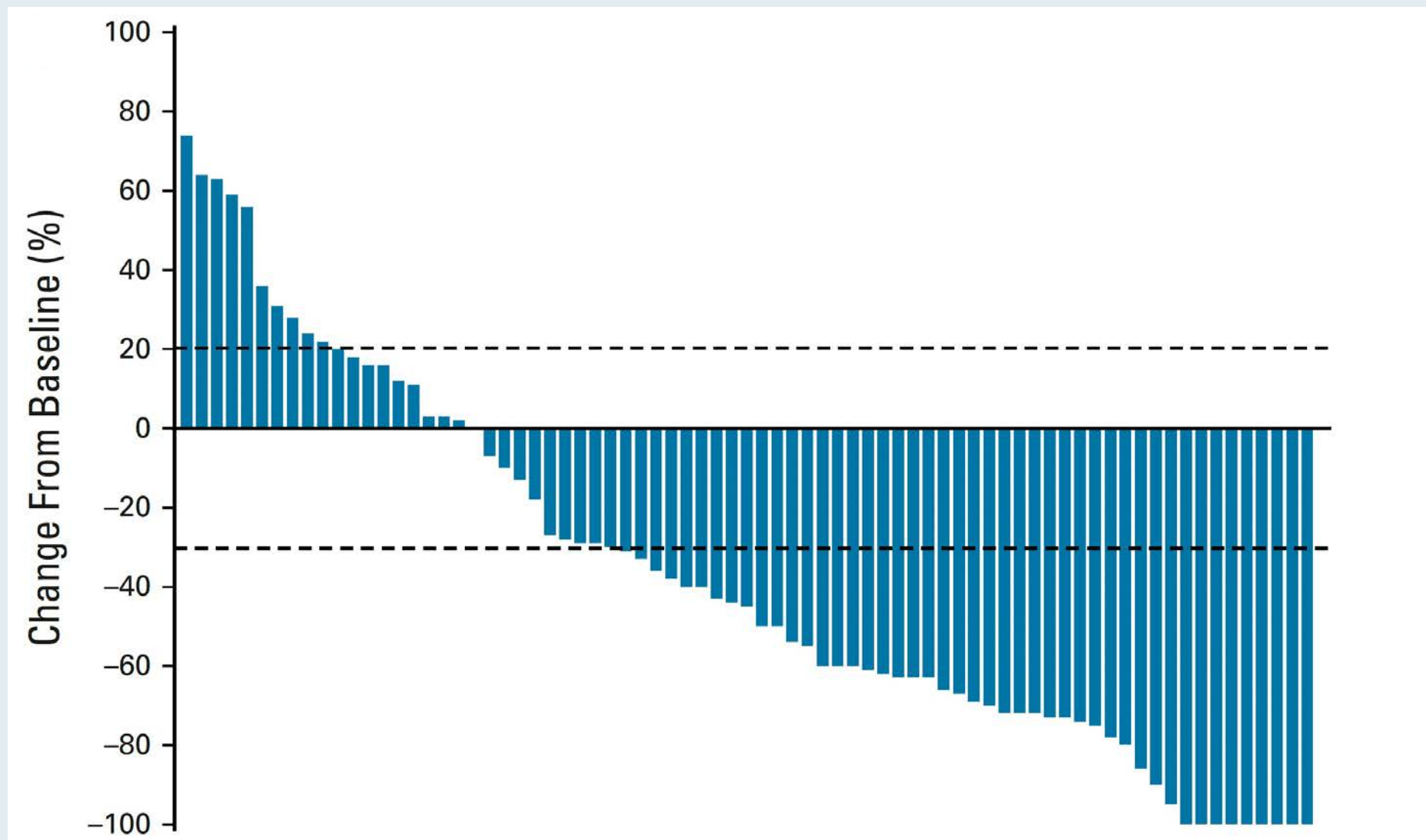
# GARNET: Best Percent Change from Baseline with Dostarlimab



# **Pembrolizumab in Patients With Microsatellite Instability–High Advanced Endometrial Cancer: Results From the KEYNOTE-158 Study**

**David M. O'Malley, MD<sup>1</sup>; Giovanni Mendonca Bariani, MD<sup>2</sup>; Philippe A. Cassier, MD<sup>3</sup>; Aurelien Marabelle, MD, PhD<sup>4</sup>;  
Aaron R. Hansen, MBBS<sup>5</sup>; Ana De Jesus Acosta, MD<sup>6</sup>; Wilson H. Miller Jr, MD, PhD<sup>7,8</sup>; Tamar Safr, MD<sup>9,10</sup>;  
Antoine Italiano, MD, PhD<sup>11,12</sup>; Linda Mileskin, MBBS<sup>13</sup>; Lei Xu, PhD<sup>14</sup>; Fan Jin, MD<sup>14</sup>; Kevin Norwood, MD<sup>14</sup>; and Michele Maio, MD<sup>15</sup>**

# KEYNOTE-158: Objective Response in the Efficacy Analysis Population



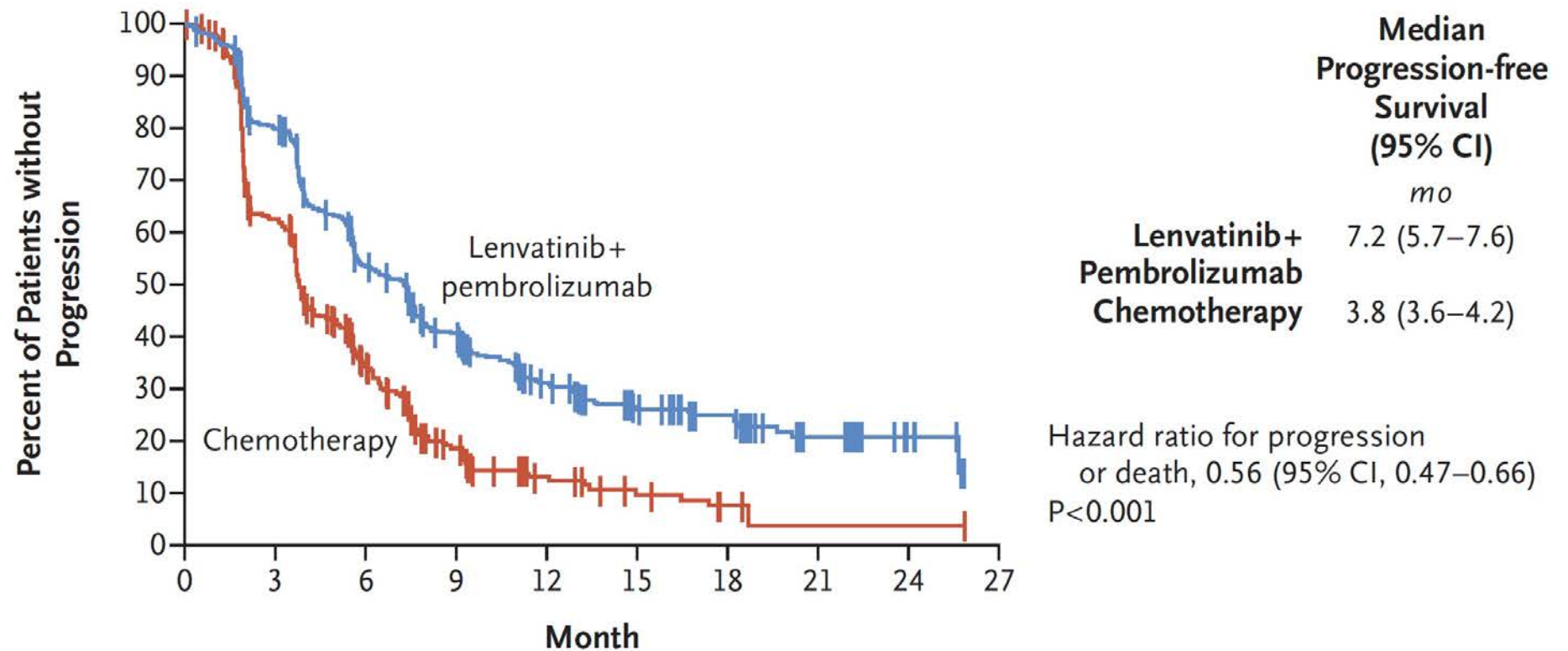
ORIGINAL ARTICLE

# Lenvatinib plus Pembrolizumab for Advanced Endometrial Cancer

V. Makker, N. Colombo, A. Casado Herráez, A.D. Santin, E. Colomba, D.S. Miller, K. Fujiwara, S. Pignata, S. Baron-Hay, I. Ray-Coquard, R. Shapira-Frommer, K. Ushijima, J. Sakata, K. Yonemori, Y.M. Kim, E.M. Guerra, U.A. Sanli, M.M. McCormack, A.D. Smith, S. Keefe, S. Bird, L. Dutta, R.J. Orlowski, and D. Lorusso, for the Study 309–KEYNOTE-775 Investigators\*

***New Engl J Med 2022;386(5):437-48.***

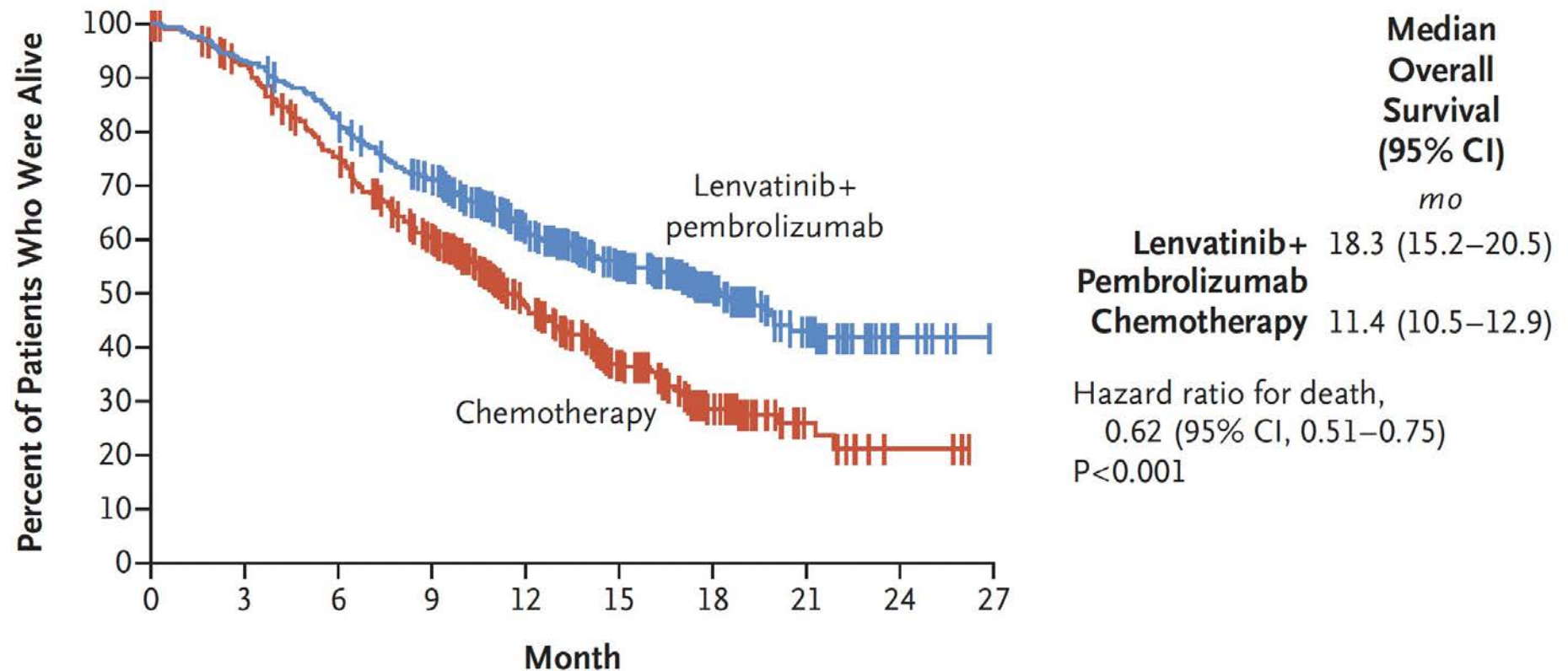
# Study 309/KEYNOTE-775: PFS in the Overall Population



## No. at Risk

Lenvatinib+pembrolizumab	411	316	202	144	86	56	43	17	6	0
Chemotherapy	416	214	95	42	18	10	4	1	1	0

# Study 309/KEYNOTE-775: OS in the Overall Population



## No. at Risk

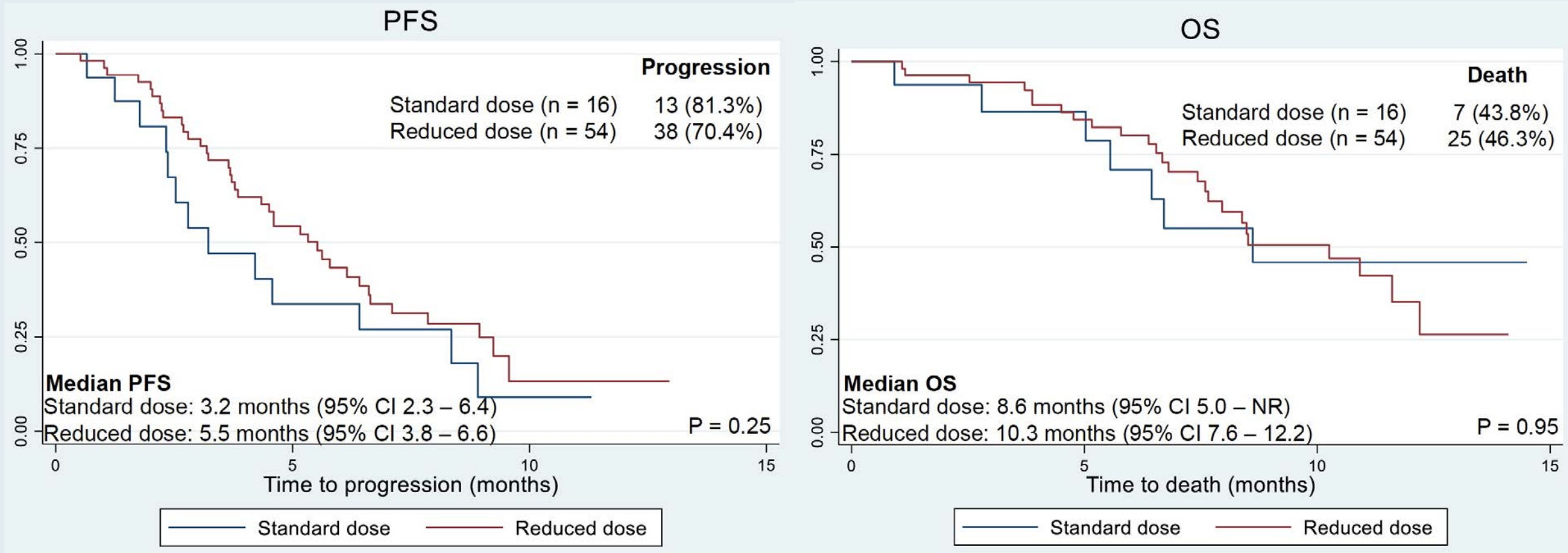
Lenvatinib+pembrolizumab	411	383	337	282	198	136	81	40	7	0
Chemotherapy	416	373	300	228	138	80	40	11	3	0

# **The Use of Pembrolizumab and Lenvatinib Combination Therapy in Endometrial Cancer: An Examination of Toxicity and Treatment Efficacy in Clinical Practice**

How JA et al.

SGO 2021;Abstract 10775.

# Retrospective Analysis of Reduced-Dose Lenvatinib (<20 mg) with Pembrolizumab at MD Anderson Cancer Center



- Reduced starting dose of lenvatinib was associated with longer time to treatment toxicity and fewer dose de-escalations.
- “Published studies and these results may support using lenvatinib at a starting dose of 14 mg daily in clinical practice.”

# *Questions — David M O'Malley, MD*



## **Patients with metastatic endometrial cancer**

- **What is the typical clinical history of a patient who is receiving treatment for metastatic endometrial cancer?**
- **What is MSI status, and how do you explain to a patient with metastatic endometrial cancer how this affects your treatment recommendation?**

# ***Commentary — David M O'Malley, MD***



## **Patients with metastatic endometrial cancer**

- **What is the typical clinical history of a patient who is receiving treatment for metastatic endometrial cancer?**
  - 30 y.o patient presented with widespread disease after being diagnosed at 21 y.o with Grade 1 endometrioid cancer (MMRp)
  - 65 y.o presented with widely metastatic serous cancer (Stage IVB) – MMRp, HER2 -
  - 57 y.o who presented with metastatic serous cancer 16 months after completing carboplatin/paclitaxel for stage IB serous cancer – MMRp, HER2-
  - 70 y.o originally diagnosed with IIIC1 Gr 3 endometrioid. Completed C/T x 6, WPRT. Presented 4 months later with adrenal lesion and brain mets. MMRd.

# ***Commentary — David M O'Malley, MD***



- **MSI testing measures the ability of a cell to correct mistakes in DNA repair (MMR). These mistakes create abnormal proteins (ie, neoantigens) which are recognized by the immune system once the “brakes” are removed by immune therapies (ICI).**
- **Treatment of R/M uterine cancer: clinical trial is first option**
  - **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) - endometrioid**
    - **“Other” chemotherapy**



## **Patients with metastatic endometrial cancer**

- **What are some of the clinical issues that you discuss with patients who are about to start on immunotherapy alone?**
- **What are some of the clinical issues that you discuss with patients who are about to start on immunotherapy in combination with a tyrosine kinase inhibitor (eg, lenvatinib/ pembrolizumab)?**
- **What are some of the psychosocial issues that arise in these situations?**



## **Patients with metastatic endometrial cancer**

- **Immunotherapy alone**
  - **Speak to patient in language they can understand, Early Recognition, Importance of notifying Clinic**
  - **Discuss Side effects and Proper Education**
- **Immunotherapy in Combination with TKI**
  - **Educate Patient – Similar Side Effect Profile**
  - **Can increase severity of toxicity leading to hold/Dose reduction/Discontinuation**
- **Patient Examples**
  - **Patient #1 – Stage IV Endometrial Cancer with PD on Len/Pembro**
  - **Patient #2 – Stage IV Endometrial Cancer with Recurrence on Len/Pembro**
- **Psychosocial Issues**
  - **Low self-esteem, altered-image, depression, anxiety.**

# Agenda

**Module 1 – Endometrial Cancer**

**Module 2 – Cervical Cancer**

**Module 3 – Clinical Care of Patients Receiving Checkpoint Inhibitors**

**Module 4 – COVID-19: Considerations in Cervical and Endometrial Cancer**

**Module 5 – Oncology 2032 Crystal Ball: Part 1**

# FDA Approves Pembrolizumab Combination for the First-Line Treatment of Cervical Cancer

Press Release – October 13, 2021

“On October 13, 2021, the Food and Drug Administration approved pembrolizumab in combination with chemotherapy, with or without bevacizumab, for patients with persistent, recurrent or metastatic cervical cancer whose tumors express PD-L1 (CPS  $\geq 1$ ), as determined by an FDA-approved test.

KEYNOTE-826 (NCT03635567), a multicenter, randomized, double-blind, placebo-controlled trial, examined pembrolizumab with paclitaxel and cisplatin or paclitaxel and carboplatin, with or without bevacizumab. The trial enrolled 617 patients with persistent, recurrent, or first-line metastatic cervical cancer who had not been treated with chemotherapy. Patients were enrolled irrespective of PD-L1 expression status.

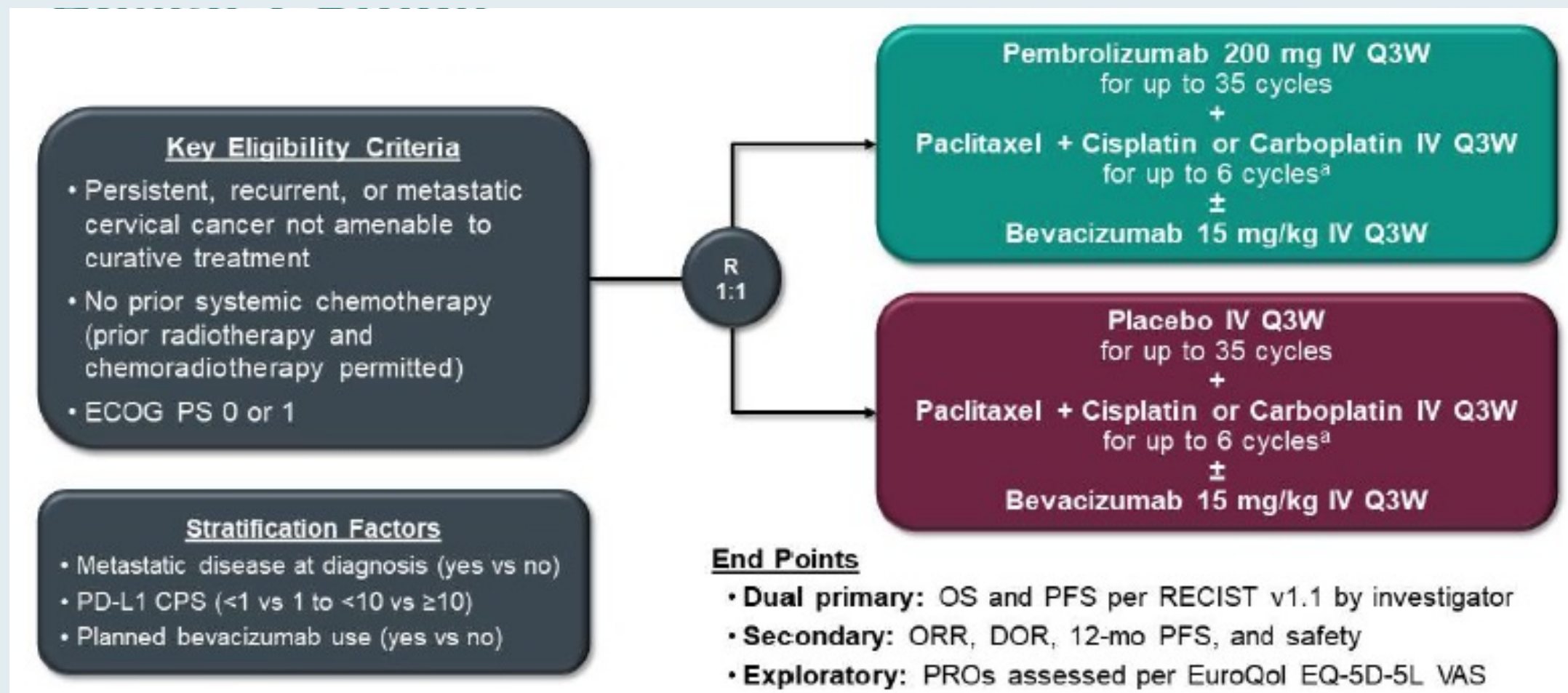
For patients with tumors expressing PD-L1 (CPS  $\geq 1$ , N=548), the median OS was not reached in the pembrolizumab arm and was 16.3 months in the placebo arm. Median PFS was 10.4 months in the pembrolizumab arm and 8.2 months in the placebo arm.”

ORIGINAL ARTICLE

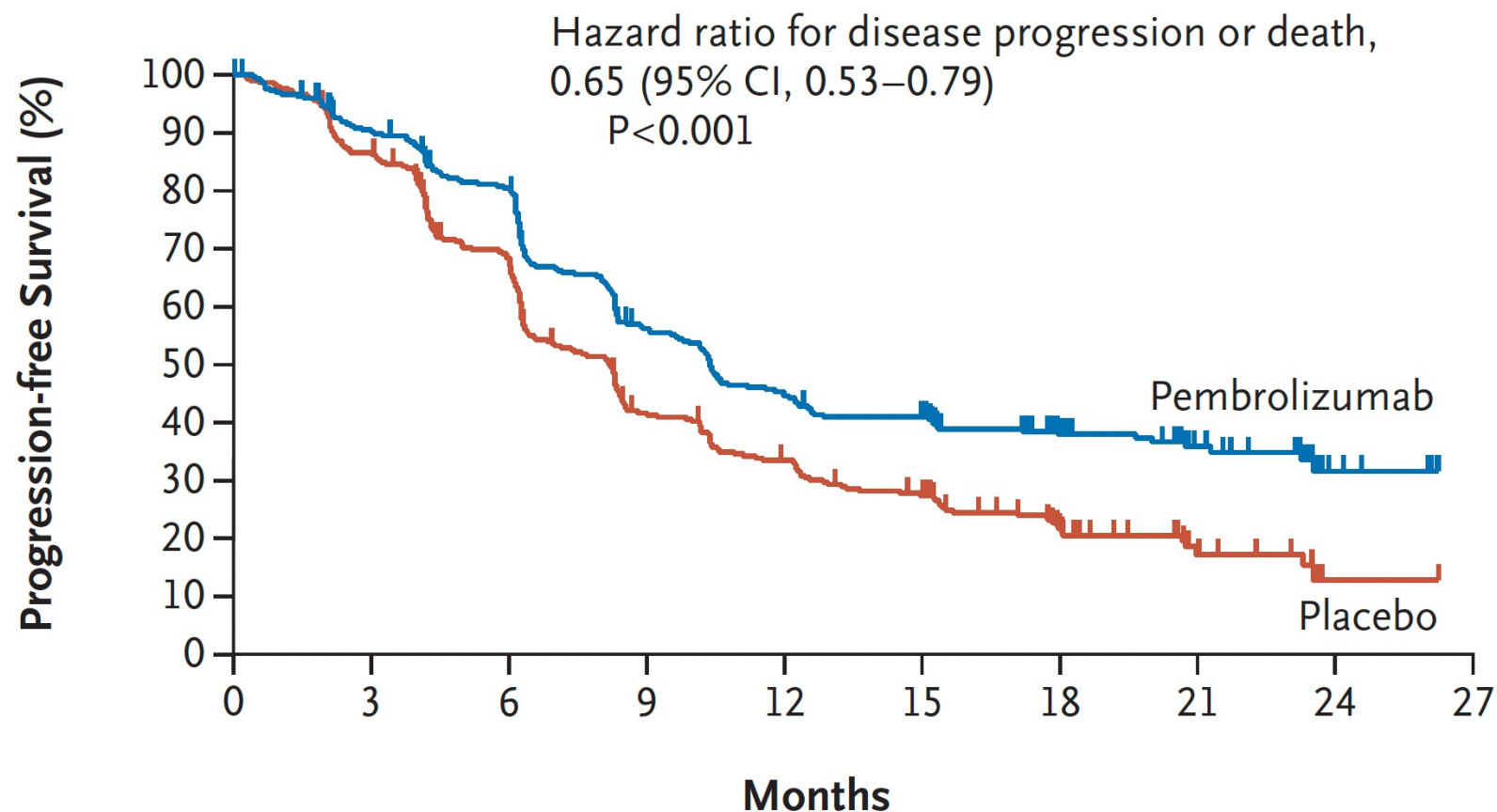
# Pembrolizumab for Persistent, Recurrent, or Metastatic Cervical Cancer

N. Colombo, C. Dubot, D. Lorusso, M.V. Caceres, K. Hasegawa,  
R. Shapira-Frommer, K.S. Tewari, P. Salman, E. Hoyos Usta, E. Yañez, M. Gümüş,  
M. Olivera Hurtado de Mendoza, V. Samouëlian, V. Castonguay, A. Arkhipov,  
S. Toker, K. Li, S.M. Keefe, and B.J. Monk, for the KEYNOTE-826 Investigators\*

# KEYNOTE-826: Phase III Trial Schema



# KEYNOTE-826: Progression-Free Survival

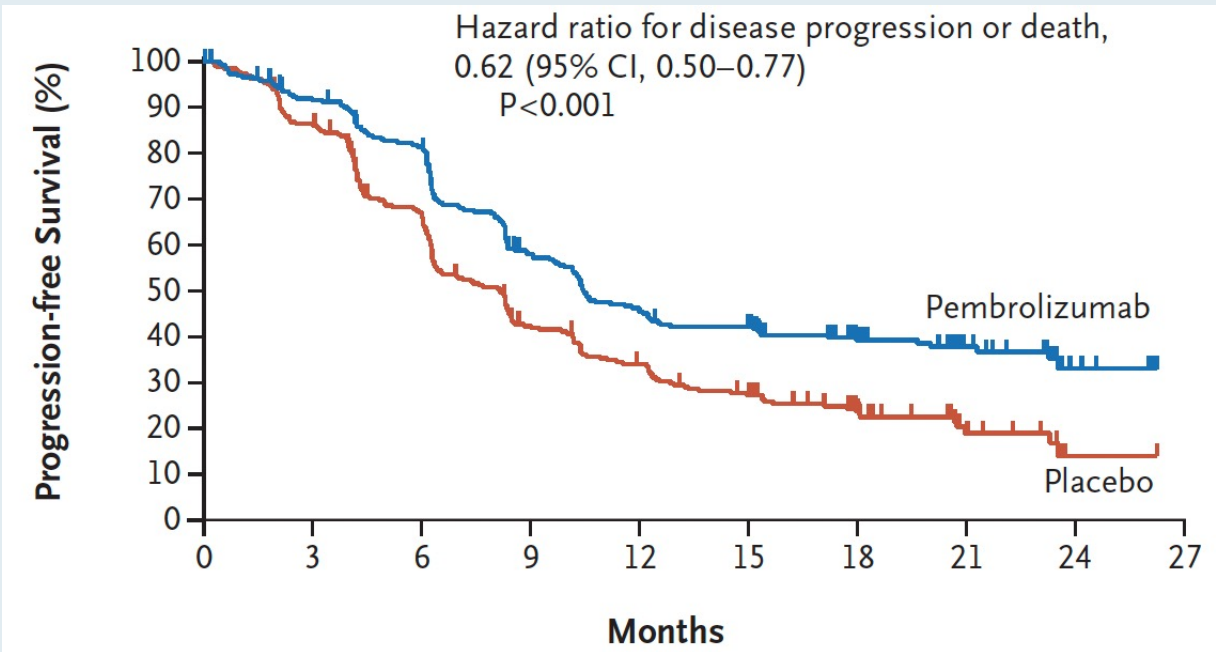


## No. at Risk

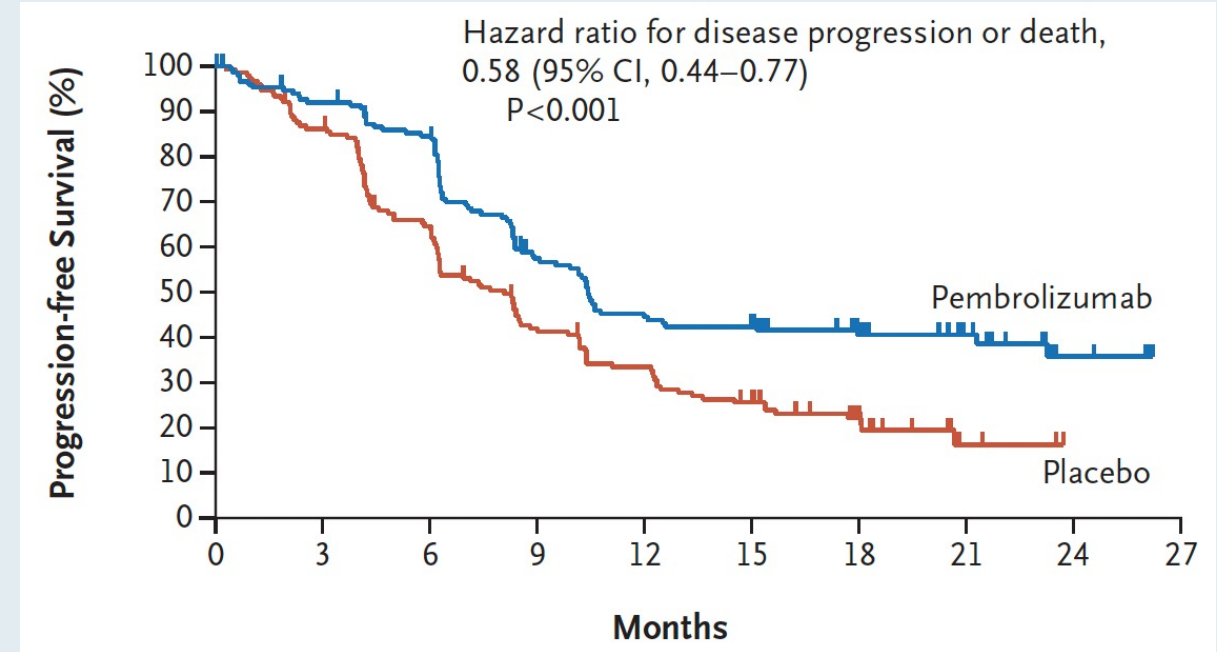
Pembrolizumab	308	263	229	155	123	110	70	35	10	0
Placebo	309	259	195	113	89	71	39	13	1	0

# KEYNOTE-826: Progression-Free Survival According to PD-L1 Status

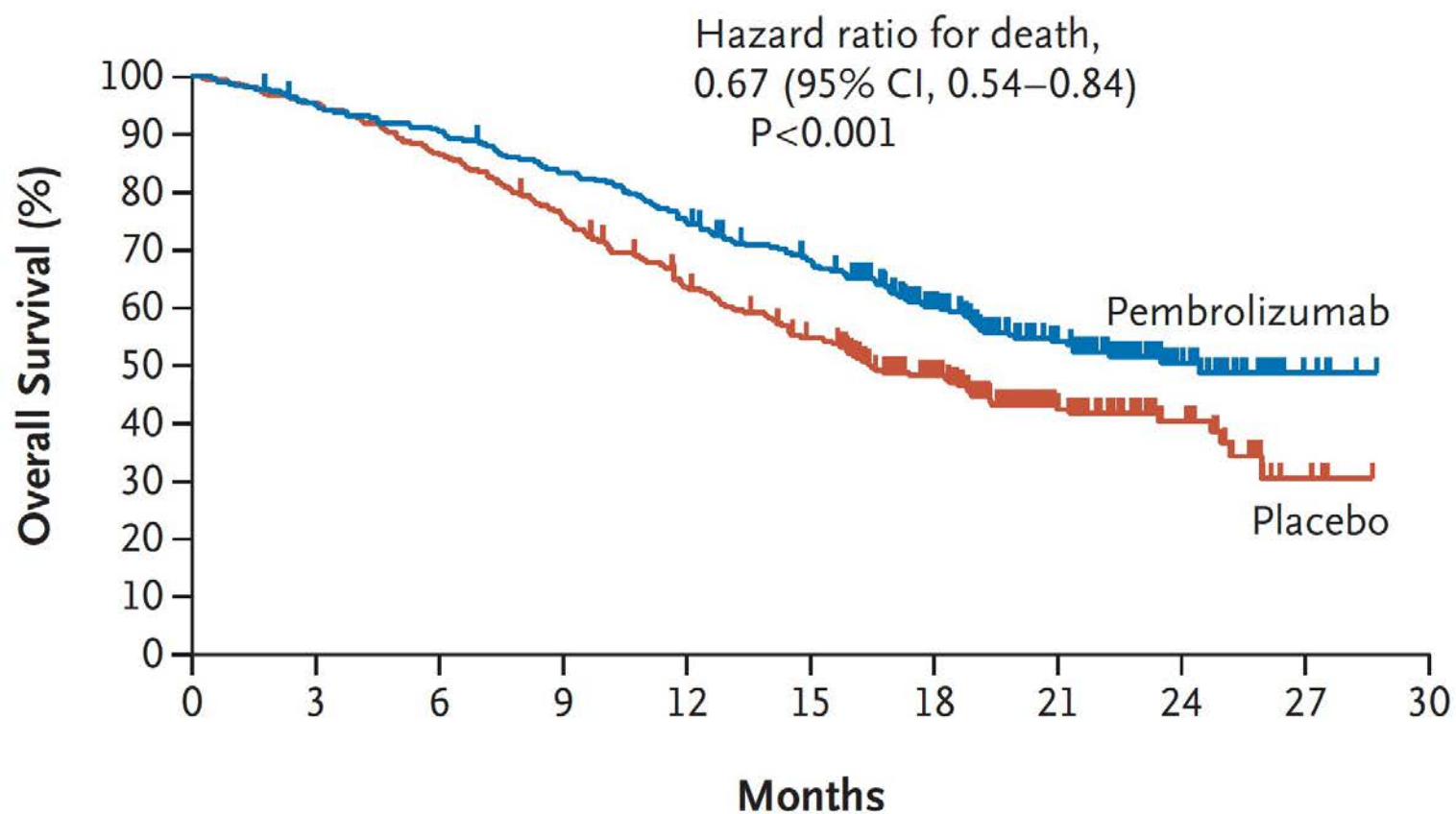
**PD-L1 Combined Positive Score  $\geq 1$**



**PD-L1 Combined Positive Score  $\geq 10$**



# KEYNOTE-826: Overall Survival

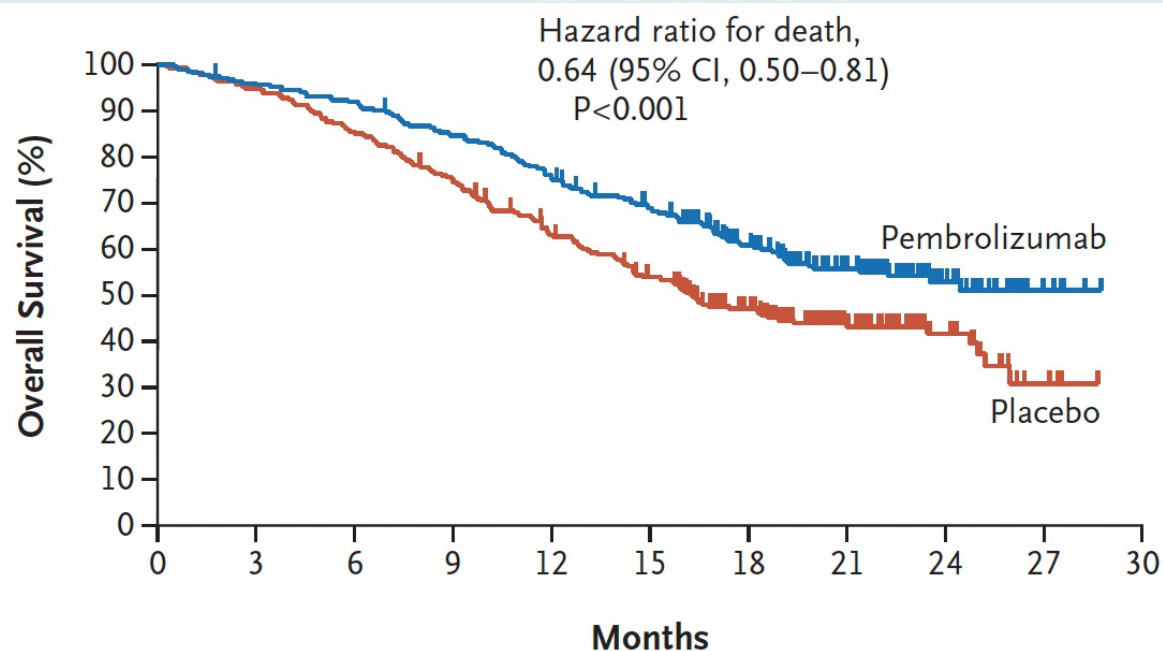


## No. at Risk

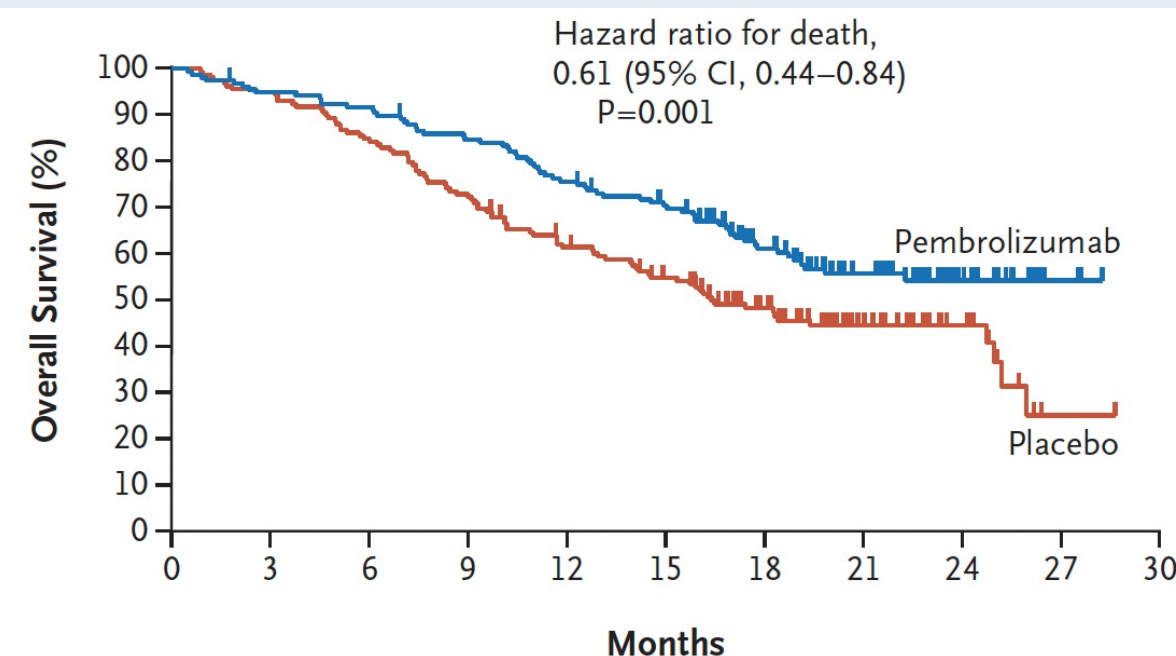
Pembrolizumab	308	291	277	254	228	201	145	89	36	6	0
Placebo	309	295	268	234	191	160	116	60	28	4	0

# KEYNOTE-826: Overall Survival According to PD-L1 Status

## PD-L1 Combined Positive Score $\geq 1$



## PD-L1 Combined Positive Score $\geq 10$



# FDA Accelerated Approval Granted to Tisotumab Vedotin-tftv for Previously Treated Recurrent or Metastatic Cervical Cancer

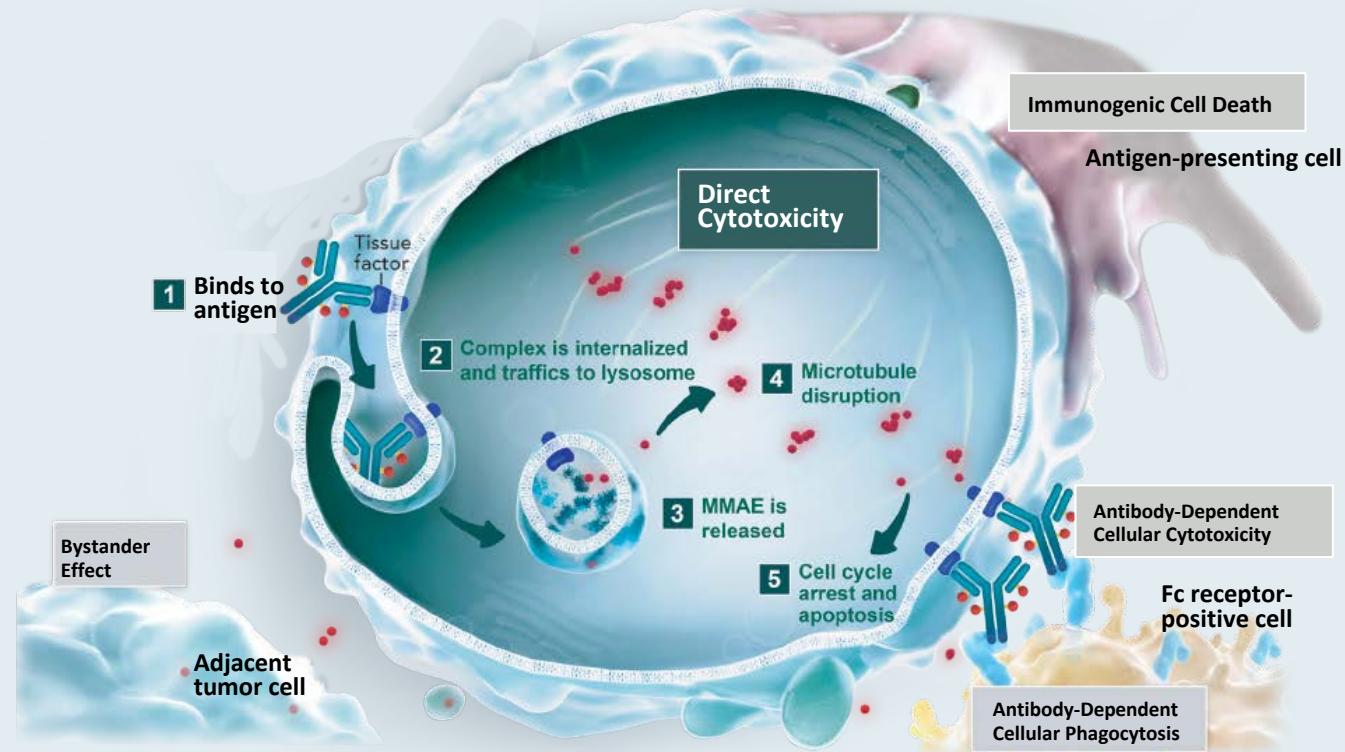
Press Release – September 20, 2021

“[It was announced today that the FDA] has granted accelerated approval to tisotumab vedotin-tftv, the first and only approved antibody-drug conjugate (ADC) for the treatment of adult patients with recurrent or metastatic cervical cancer with disease progression on or after chemotherapy. Tisotumab vedotin-tftv is approved under the FDA’s Accelerated Approval Program based on tumor response and the durability of the response. Continued approval may be contingent upon verification and description of clinical benefit in confirmatory trials.”

The accelerated approval is based on results from the innovaTV 204 trial. InnovaTV 301, a global, randomized Phase III clinical trial intended to support global registrations, is under way. The prescribing information for tisotumab vedotin-tftv includes a BOXED WARNING for ocular toxicity and warnings for peripheral neuropathy, hemorrhage, pneumonitis and embryo-fetal toxicity.

# Mechanism of Action of Tisotumab Vedotin

- Tissue factor (TF) is aberrantly expressed in a broad range of solid tumours, including cervical cancer,<sup>1,2</sup> and TF expression has been associated with higher tumour stage and grade, higher metastatic burden and poor prognosis<sup>2</sup>
- TF expression in cervical cancer makes TF a novel target for patients with cervical cancer
- ADC targets TF
  - Monoclonal Antibody targets TF
  - Payload: Microtubule disrupting MMAE
- Allowing for direct cytotoxicity and bystander killing, as well as antibody-dependent cellular cytotoxicity<sup>3,4</sup>



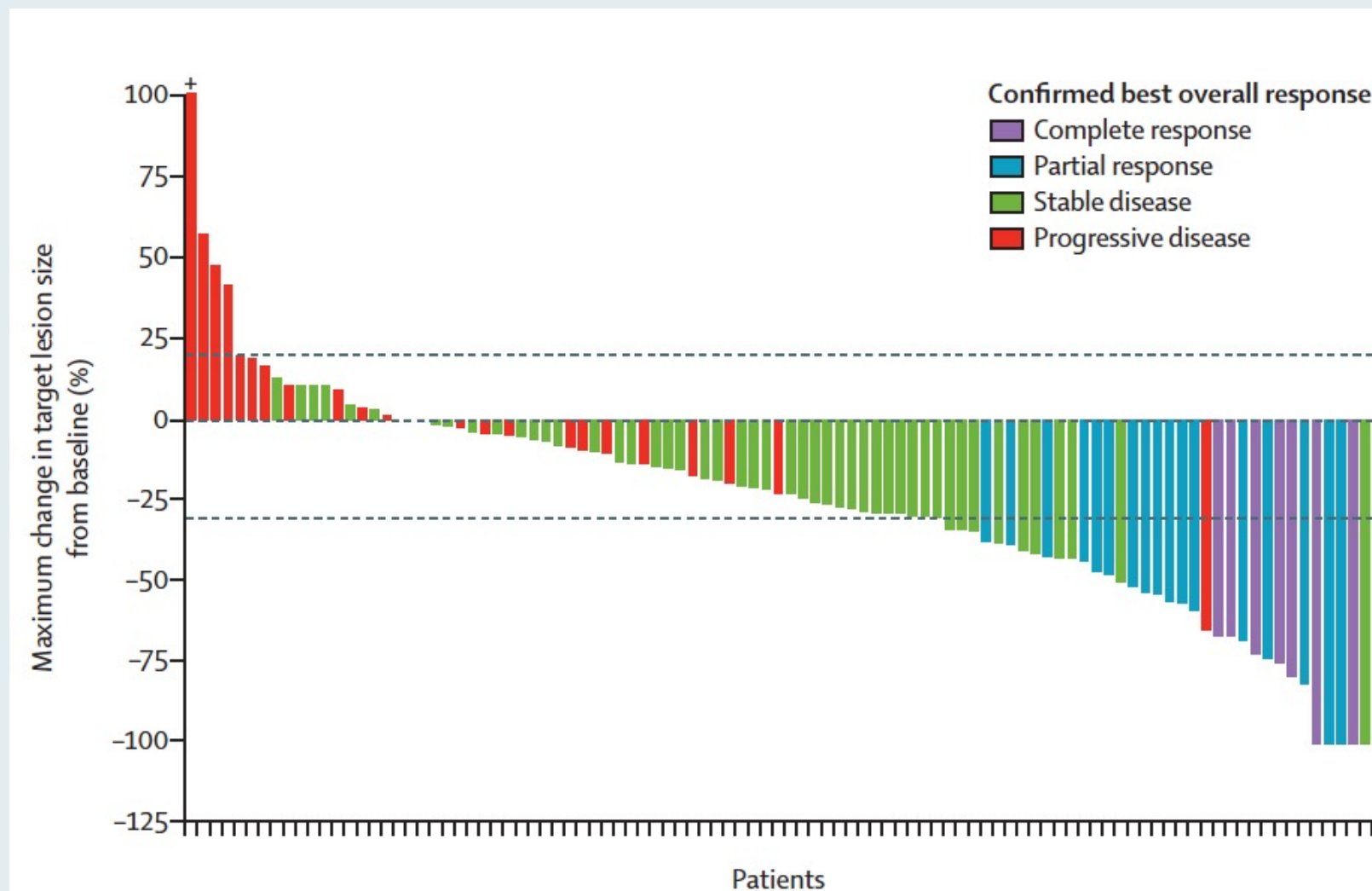
# Efficacy and safety of tisotumab vedotin in previously treated recurrent or metastatic cervical cancer (innovaTV 204/GOG-3023/ENGOT-cx6): a multicentre, open-label, single-arm, phase 2 study



*Robert L Coleman, Domenica Lorusso, Christine Gennigens, Antonio González-Martín, Leslie Randall, David Cibula, Bente Lund, Linn Woelber, Sandro Pignata, Frederic Forget, Andrés Redondo, Signe Diness Vindeløv, Menghui Chen, Jeffrey R Harris, Margaret Smith, Leonardo Viana Nicacio, Melinda S L Teng, Annouschka Laenen, Reshma Rangwala, Luis Manso, Mansoor Mirza, Bradley J Monk, Ignace Vergote, on behalf of the innovaTV 204/GOG-3023/ENGOT-cx6 Collaborators\**

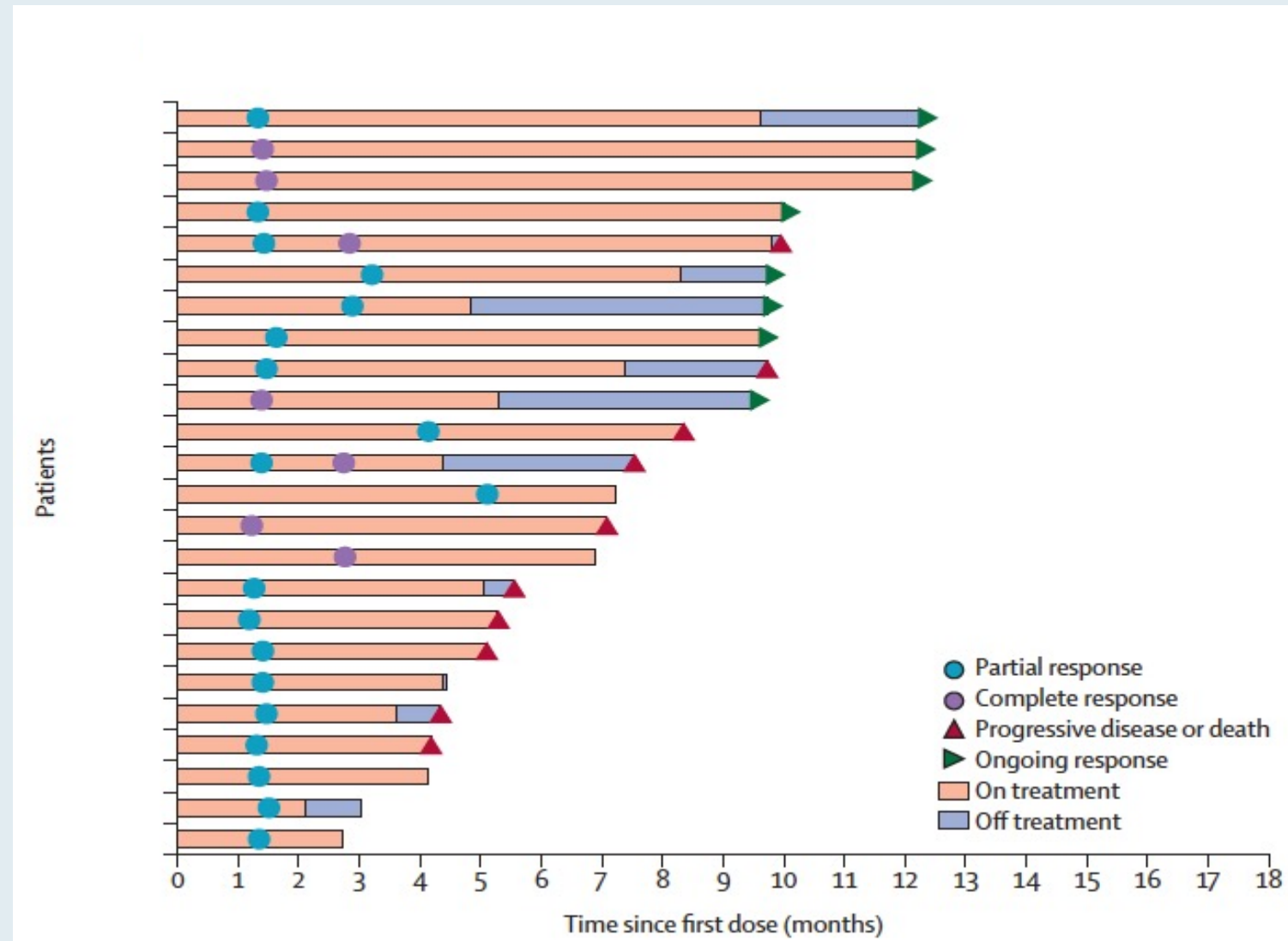
***Lancet Oncol 2021; 22: 609–19***

# innovaTV 204: Antitumor Activity by IRC Assessment



Clinical variable	N = 101
Confirmed ORR	24%
CR	7%
PR	17%
SD	49%
PD	24%
Not evaluable	4%

# innovaTV 204: Swimmer Plot of Confirmed Responses



# innovaTV 204: Select Adverse Events

	Grade 1-2	Grade 3	Grade 4	Grade 5
Patients with at least one treatment-related adverse event	65 (65%)	25 (25%)	2 (2%)	1 (1%)
Treatment-related adverse events, by preferred terms, with an incidence of 10% or higher, or any grade 3 or worse event				
Alopecia	38 (38%)	0	0	0
Epistaxis	30 (30%)	0	0	0
Nausea	27 (27%)	0	0	0
Conjunctivitis	26 (26%)	0	0	0
Fatigue	24 (24%)	2 (2%)	0	0
Dry eye	23 (23%)	0	0	0
Myalgia	15 (15%)	0	0	0
Anaemia	12 (12%)	1 (1%)	0	0
Asthenia	12 (12%)	1 (1%)	0	0
Arthralgia	12 (12%)	0	0	0
Decreased appetite	11 (11%)	0	0	0
Keratitis	11 (11%)	0	0	0
Pruritus	10 (10%)	1 (1%)	0	0
Neuropathy peripheral	8 (8%)	2 (2%)	0	0
Constipation	8 (8%)	1 (1%)	0	0
Peripheral sensory neuropathy	7 (7%)	2 (2%)	0	0
Peripheral sensorimotor neuropathy	3 (3%)	2 (2%)	0	0
Neutropenia	1 (1%)	3 (3%)	0	0

# innovaTV 204: Select Ocular Adverse Events Regardless of Causality

Incidence, n (%)	N = 101	
	Any grade	Grade 3
<b>Patients with <math>\geq 1</math> ocular AE</b>	55 (54)	3 (3)
<b>Ocular AE in <math>\geq 2</math> patients<sup>†</sup></b>		
Conjunctivitis	31 (31)	0
Dry eye	25 (25)	0
Keratitis	11 (11)	0
Blepharitis	7 (7)	0
Punctate keratitis	6 (6)	0
Increased lacrimation	4 (4)	0
Ocular hyperemia	4 (4)	0
Blurred vision	3 (3)	0
Entropion	3 (3)	0
Meibomianitis	3 (3)	0
Ulcerative keratitis	3 (3)	3 (3)

# Tisotumab Vedotin + Carboplatin in First-Line or + Pembrolizumab in Previously Treated Recurrent/Metastatic Cervical Cancer: Interim Results of ENGOT-Cx8/GOG-3024/innovaTV 205

Ignace Vergote,<sup>1</sup> Bradley J. Monk,<sup>2</sup> Roisin E. O'Cearbhaill,<sup>3</sup> Anneke Westermann,<sup>4</sup> Susana Banerjee,<sup>5</sup> Dearbhaile Catherine Collins,<sup>6</sup> Mansoor Raza Mirza,<sup>7</sup> David O'Malley,<sup>8</sup> Christine Gennigens,<sup>9</sup> Sandro Pignata,<sup>10</sup> Bohuslav Melichar,<sup>11</sup> Azmat Sadozye,<sup>12</sup> Frederic Forget,<sup>13</sup> Krishnansu S. Tewari,<sup>14</sup> Eelke Gort,<sup>15</sup> Ibrahima Soumaoro,<sup>16</sup> Camilla Mondrup Andreassen,<sup>17</sup> Leonardo Viana Nicacio,<sup>18</sup> Els Van Nieuwenhuysen,<sup>1</sup> Domenica Lorusso<sup>19</sup>

<sup>1</sup>Belgium and Luxembourg Gynaecological Oncology Group, University of Leuven, Leuven Cancer Institute, Leuven, Belgium; <sup>2</sup>Arizona Oncology (US Oncology Network), University of Arizona College of Medicine, Creighton University School of Medicine, Phoenix, AZ, USA; <sup>3</sup>Memorial Sloan Kettering Cancer Center and Weill Cornell Medical College, New York, NY, USA; <sup>4</sup>Amsterdam University Medical Centers, Amsterdam, Netherlands; <sup>5</sup>The Royal Marsden NHS Foundation Trust, London, UK; <sup>6</sup>Cork University Hospital/Oncology Trials Unit, Cork, Ireland; <sup>7</sup>Rigshospitalet Copenhagen University Hospital, Copenhagen, Denmark; <sup>8</sup>Division of Gynecology Oncology, Department of Gynecology and Obstetrics, The Ohio State University College of Medicine, Columbus, Ohio, USA; <sup>9</sup>Department of Medical Oncology, Liège University Hospital, Liège, Belgium; <sup>10</sup>Istituto Nazionale Tumori IRCCS Fondazione G. Pascale, Naples, Italy; <sup>11</sup>Palacký University Medical School and Teaching Hospital, Olomouc, Czech Republic; <sup>12</sup>NHS Greater Glasgow and Clyde, Glasgow, United Kingdom; <sup>13</sup>Centre Hospitalier de l'Ardenne, Libramont, Belgium; <sup>14</sup>University of California, Irvine Medical Center, Orange, CA, USA; <sup>15</sup>University Medical Center Utrecht, Utrecht, Netherlands; <sup>16</sup>Genmab US, Inc., Princeton, NJ, USA; <sup>17</sup>Genmab A/S, Copenhagen, Denmark; <sup>18</sup>Seagen Inc., Bothell, WA, USA; <sup>19</sup>Fondazione IRCCS, Fondazione Policlinico Universitario Agostino Gemelli IRCCS, Rome, Italy



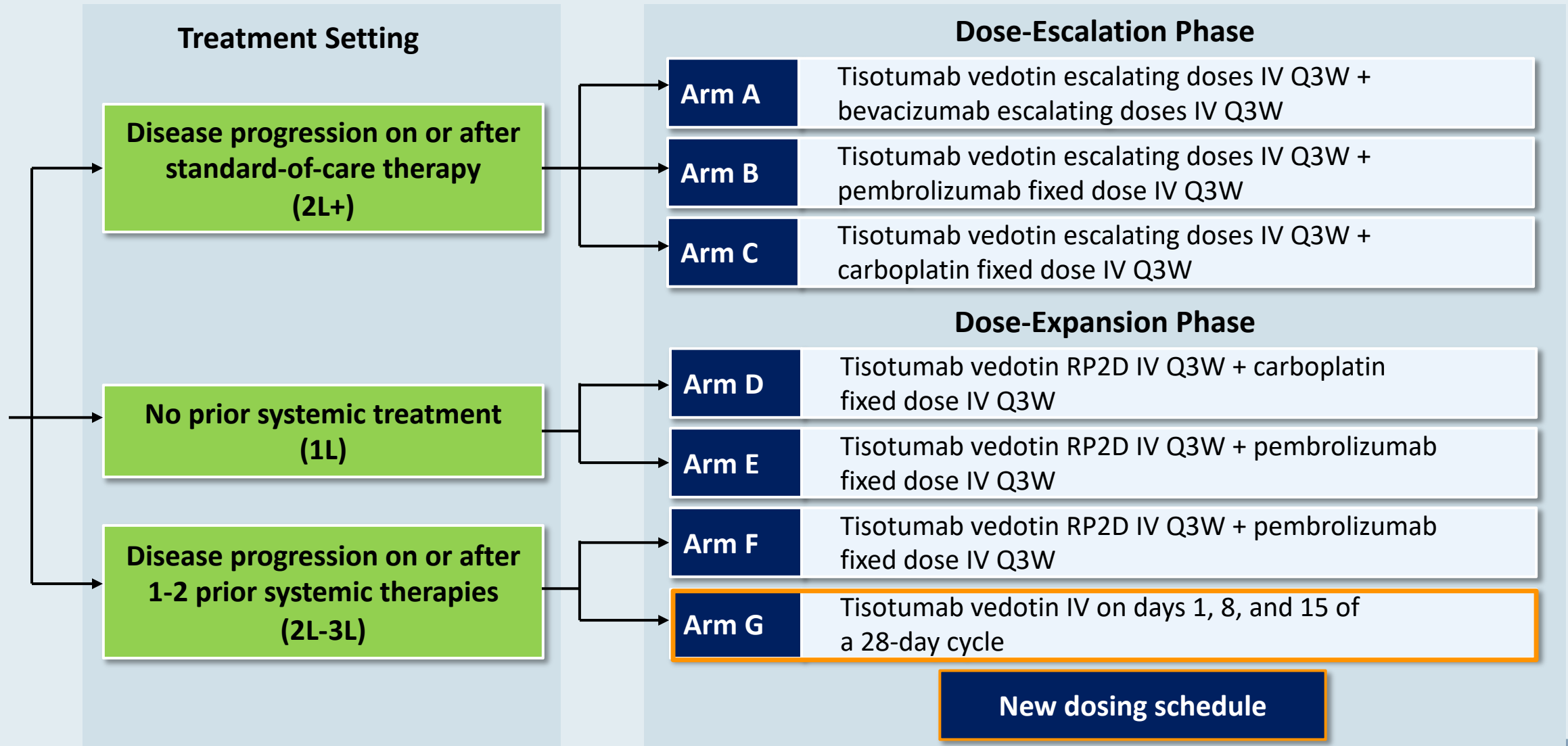
Ignace Vergote

## ESMO 2021; Abstract 723MO



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# innovaTV 205 (GOG 3024): Recurrent or Metastatic Cervical Cancer



# innovaTV 205 (GOG 3024): Summary of Efficacy & Safety for 1L TV + Carbo

Parameters	1L TV + Carbo (N = 33) Median FU: 7.9 months
Median duration of exposure, months (range)	TV: 4.9 (1 – 9) Carbo: 4.1 (1 – 9)
Median number of cycles initiated (range)	TV: 6.0 (1 – 12) Carbo: 6.0 (1 – 12)
Confirmed response rate, n (%) [95% CI]	18 (55) [36 – 72]
Complete response, n (%)	4 (12)
Partial response, n (%)	14 (42)
Stable disease, n (%)	12 (36)
Progressive disease, n (%)	2 (6)
Not evaluable, n (%)	1 (3)
Median duration of response, months (95% CI)	8.3 (4.2 – NR)
Median time to response, months (range)	1.4 (1.1 – 4.4)
Median PFS, months (95% CI)	9.5 (4.0 – NR)
Median OS, months (range)	NR (0.8+ – 14.1+)

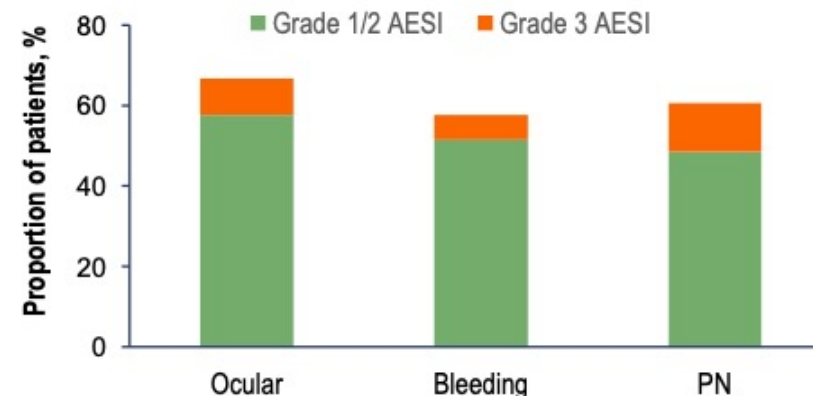
Treatment ongoing in 9 patients. +, censored.



Vergote I., et al.

1L, first-line; AE, adverse event; AESI, adverse event of special interest; carbo, carboplatin; FU, follow-up; NR, not reached; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PN; peripheral neuropathy; r/mCC, recurrent/metastatic cervical cancer; SAE, serious adverse event; TEAE, treatment-emergent adverse event; TV, tisotumab vedotin.

	TV + Carbo (N=33)
Patients with ≥1 TEAE, n (%)	33 (100.0)
AE related to TV	32 (97.0)
Grade ≥3 AE, n (%)	26 (78.8)
Grade ≥3 AE related to TV	19 (57.6)
SAE, n (%)	14 (42.4)
SAE related to TV	5 (15.2)
Fatal AE, n (%)	0
Fatal AE related to TV	0



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# innovaTV 205 (GOG 3024): Summary of Efficacy & Safety for 2L/3L TV + Pembro

Parameters	2L/3L TV + Pembro (N = 34) <sup>a</sup> Median FU: 13.0 months
Median duration of exposure, months (range)	TV: 4.1 (1 – 16) Pembro: 4.3 (1 – 17)
Median number of cycles initiated (range)	TV: 6.0 (1 – 21) Pembro: 6.0 (1 – 25)
Confirmed response rate, n (%) [95% CI]	13 (38) [22 – 56]
Complete response, n (%)	2 (6)
Partial response, n (%)	11 (32)
Stable Disease, n (%)	12 (35)
Progressive disease, n (%)	7 (21)
Not evaluable, n (%)	2 (6)
Median DOR, months (95% CI)	13.8 (2.8 – NR)
Median time to response, months (range)	1.4 (1.3 – 5.8)
Median PFS, months (95% CI)	5.6 (2.7 – 13.7)
Median OS, months (range)	NR (1.3 – 17.5+)

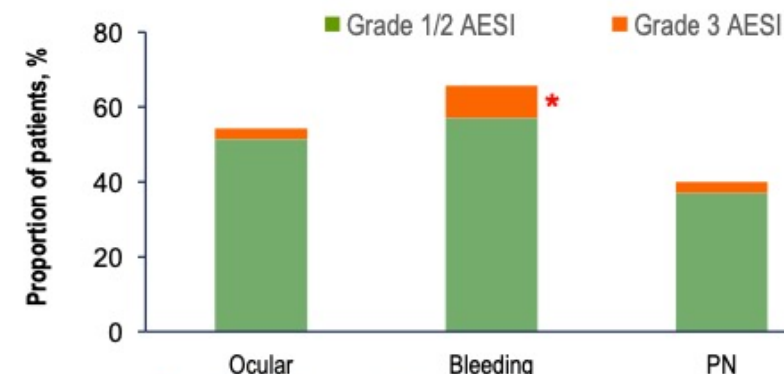
<sup>a</sup>1 pt was excluded from the full analysis set as they didn't have any target or non-target lesions at baseline. Treatment ongoing in 4 patients.



Vergote I, et al.

+, censored; 1L, first-line; AE, adverse event; AESI, adverse event of special interest; DOR, duration of response; FU, follow-up; NR, not reached; ORR, objective response rate; OS, overall survival; pembro, pembrolizumab; PFS, progression-free survival; PN; peripheral neuropathy; r/mCC, recurrent/metastatic cervical cancer; SAE, serious adverse event; TEAE, treatment-emergent adverse event; TV, tisotumab vedotin.

	TV + Pembro (N = 35)
Patients with ≥1 TEAE, n (%)	35 (100.0)
AE related to TV	34 (97.1)
Grade ≥3 AE, n (%)	26 (74.3)
Grade ≥3 AE related to TV	16 (45.7)
SAE, n (%)	18 (51.4)
SAE related to TV	5 (14.3)
Fatal AE, n (%)	1 (2.9)
Fatal AE related to TV	0



\*One patient had a grade 4 bleeding event.

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# ***Questions — Robert L Coleman, MD***



## **Patients with advanced cervical cancer**

- **What is the typical clinical history of a patient who is receiving treatment for metastatic cervical cancer?**
- **In what situations do you consider immunotherapy for patients with metastatic cervical cancer?**
- **In what situations do you consider tisotumab vedotin for patients with metastatic cervical cancer?**

# ***Commentary — Robert L Coleman, MD***



## **Patients with advanced cervical cancer**

- **There's no one typical clinical phenotype for this disease**
  - **Often under-screened, low health literacy, and with poor resources but in no way is this a way to differentiate affected patients. HPV is endemic and the cause**
- **Immunotherapy should be used either as FDA-labeled (e.g. pembrolizumab in advanced stage/recurrent disease with chemotherapy  $\pm$  bevacizumab, or if following chemotherapy, as a single agent, e.g. pembrolizumab or nivolumab) or on clinical trial**
- **Like above, tisotumab vedotin should be used per its FDA label or in a clinical trial**

# ***Commentary — Robert L Coleman, MD***



- **What to be on the look out for:**
  - **Immunotherapy: rash, gut and pulmonary effects, changes in energy – don't be afraid to let us know – we want to act quickly to evaluate and treat**
  - **TV: the cold packs are to help with side effects. We will be monitoring for side effects like conjunctivitis (red eye), dry eyes, and blurred vision, bleeding (mostly bloody nose), and increasing numbness/tingling in hands and feet (neuropathy)**

# ***Questions — Paula J Anastasia, MN, RN, AOCN***



## **Patients with advanced cervical cancer**

- **What are some of the clinical issues that you discuss with patients who are about to receive tisotumab vedotin?**
- **What are some of the psychosocial issues that arise in this situation?**

# ***Commentary — Paula J Anastasia, MN, RN, AOCN***



## **Patients with advanced cervical cancer**

- **Clinical Issues with Tisotumab Vedotin**
- **Class Effects with Antibody Drug Conjugates (ADC):**
- **Manageable ? Only with Shared Communication and Decision Making**
- **Ocular toxicities: Common, early onset - standard eye care protocol**
  - Require eye exam and eye drops before, during and after treatment
  - Common: dry eye, conjunctivitis; serious in 3.8%
- **Peripheral Neuropathy: Pre-existing neuropathy from platinum-taxane? Non-Prescription Recommendations: Wait for It**
  - What are your “go to” prophylactic interventions
- **Bleeding: Isn't that what they said about Bevacizumab?**
  - Usually nosebleeds, hematuria, vaginal; serious events seen in 5% patients

# ***Commentary — Paula J Anastasia, MN, RN, AOCN***



- **Psychosocial**
- **Sadly there is shame with cervical cancer as if this is their fault (HPV)**
- **Healthcare disparities:**
  - **Delay in diagnosis**
  - **Delay in treatment due to authorization, type of health insurance**
  - **Delay in referral to other providers (eye)**
- **Advanced, non curable disease: goals of care, difficult conversations**

# Agenda

**Module 1 – Endometrial Cancer**

**Module 2 – Cervical Cancer**

**Module 3 – Clinical Care of Patients Receiving Checkpoint Inhibitors**

**Module 4 – COVID-19: Considerations in Cervical and Endometrial Cancer**

**Module 5 – Oncology 2032 Crystal Ball: Part 1**

# SELF-ASSESSMENT QUIZ

Which of the following is a common side effect of immunotherapy?

1. Rash
2. Thyroid dysfunction
3. Both 1 and 2
4. Neither 1 nor 2
5. I don't know

# Symptoms of Immunotherapy Toxicity

## **Hypophysitis**

(fatigue)

## **Thyroiditis**

(over/underactive thyroid)

## **Adrenal Insufficiency**

(fatigue)

## **Diabetes Mellitus**

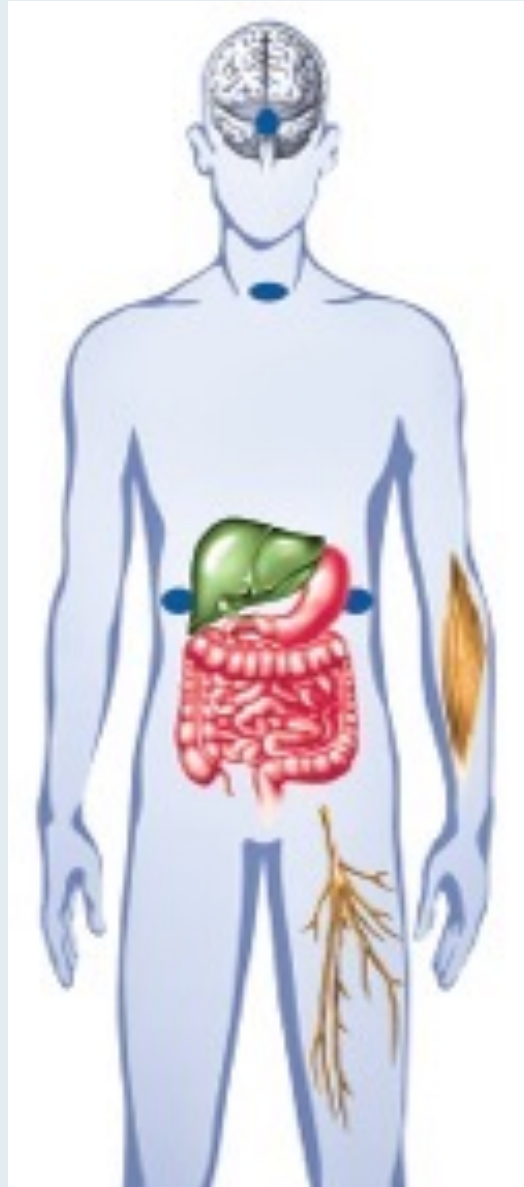
(type I, II, fatigue, DKA)

## **Colitis**

(diarrhea, abd pain)

## **Dermatitis**

(skin rash, itch, blistering)



## **Pneumonitis**

(dyspnea, cough)

## **Myocarditis**

(chest pain, dyspnea)

## **Hepatitis**

(abn LFTs, jaundice)

## **Pancreatitis**

(abd pain)

## **Neurotoxicities**

(MG, encephalitis)

## **Arthritis**

(joint pain)

# Name an -itis, Any -itis

Organ System	Reported Toxicities
Integumentary	Hives, Eczema, Vitiligo, Pemphigus, Lichenoid Reactions
Gastrointestinal	Enterocolitis, Pancreatitis, Gastritis, Celiac Disease
Hepatic	Autoimmune Hepatitis, Sclerosing Cholangitis, Primary Biliary Cirrhosis
Renal	Interstitial Nephritis, Nephrotic Syndrome, Autoimmune Nephropathy
Pulmonary	Pneumonitis, Interstitial Lung Disease, Pleuritis
Cardiac	Myocarditis, Pericarditis, Cardiomyopathy
Endocrine	Hypo/Hyperthyroidism, Hypophysitis, Adrenal Insufficiency
Neurologic	Encephalitis, Guillain-Barre Syndrome, Myasthenia Gravis, Mononeuritis, Autoimmune inner ear disease
Hematologic	Hemolytic Anemia, Immune Thrombocytopenic Purpura, Thrombotic Thrombocytopenic Purpura, Hemophilia, Evans Syndrome
Rheumatologic	Polyarthrititis, Systemic Lupus Erythematosus, Antiphospholipid Syndrome

***J Clin Oncol* 2018;36(17):1714-68.****Management of Immune-Related Adverse Events in Patients Treated With Immune Checkpoint Inhibitor Therapy: American Society of Clinical Oncology Clinical Practice Guideline**

*Julie R. Brahmer, Christina Lacchetti, Bryan J. Schneider, Michael B. Atkins, Kelly J. Brassil, Jeffrey M. Caterino, Ian Chau, Marc S. Ernstoff, Jennifer M. Gardner, Pamela Ginex, Sigrun Hallmeyer, Jennifer Holter Chakrabarty, Natasha B. Leighl, Jennifer S. Mammen, David F. McDermott, Aung Naing, Loretta J. Nastoupil, Tanyanika Phillips, Laura D. Porter, Igor Puzanov, Cristina A. Reichner, Bianca D. Santomaso, Carole Seigel, Alexander Spira, Maria E. Suarez-Almazor, Yinghong Wang, Jeffrey S. Weber, Jedd D. Wolchok, and John A. Thompson in collaboration with the National Comprehensive Cancer Network*

***J Clin Oncol* 2021;39(36):4073-126.****Management of Immune-Related Adverse Events in Patients Treated With Immune Checkpoint Inhibitor Therapy: ASCO Guideline Update**

ASCO special articles

**Bryan J. Schneider, MD<sup>1</sup>; Jarushka Naidoo, MD<sup>2,3</sup>; Bianca D. Santomaso, MD, PhD<sup>4</sup>; Christina Lacchetti, MHSc<sup>5</sup>; Sherry Adkins, MS<sup>6</sup>; Milan Anadkat, MD<sup>7</sup>; Michael B. Atkins, MD<sup>8</sup>; Kelly J. Brassil, PhD<sup>6</sup>; Jeffrey M. Caterino, MD, MPH<sup>9</sup>; Ian Chau, MD<sup>10</sup>; Marianne J. Davies, DNP<sup>11</sup>; Marc S. Ernstoff, MD<sup>12</sup>; Leslie Fecher, MD<sup>1</sup>; Monalisa Ghosh, MD<sup>13</sup>; Ishmael Jaiyesimi, DO, MS<sup>14</sup>; Jennifer S. Mammen, MD, PhD<sup>15</sup>; Aung Naing, MD<sup>6</sup>; Loretta J. Nastoupil, MD<sup>6</sup>; Tanyanika Phillips, MD<sup>16</sup>; Laura D. Porter, MD<sup>17</sup>; Cristina A. Reichner, MD<sup>18</sup>; Carole Seigel, MBA<sup>19</sup>; Jung-Min Song, MSN, RN, CNS<sup>20</sup>; Alexander Spira, MD, PhD<sup>21</sup>; Maria Suarez-Almazor, MD<sup>6</sup>; Umang Swami, MD<sup>22</sup>; John A. Thompson, MD<sup>23</sup>; Praveen Vikas, MD<sup>24</sup>; Yinghong Wang, MD<sup>6</sup>; Jeffrey S. Weber, MD, PhD<sup>25</sup>; Pauline Funchain, MD<sup>20</sup>; and Kathryn Bollin, MD<sup>26</sup>**

# Patient Education with Immunotherapies

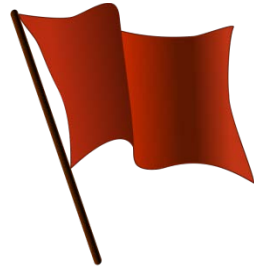
- Establish means of communication—and reconfirm!
- Stress importance of calling with new onset symptoms:
  - Cough, chest pain, dyspnea
  - Diarrhea or severe abdominal pain
  - Severe nausea/vomiting, right sided abdominal pain, jaundice, easy bruising/bleeding
  - New onset fatigue, palpitations, hair loss, skin changes, increased thirst
  - Fever, urinary tract infection symptoms

## Reminders!!

Side effects differ from traditional chemotherapy and often treatable, however though overall less common, side effects can occur and be severe

# Immunotherapy Toxicities

- Rash
- Anorexia
- Nausea/Vomiting
- Fatigue
- Elevated LFTs
- Arthralgias/Myalgias
- Hyper/Hypothyroidism



# RED FLAGS



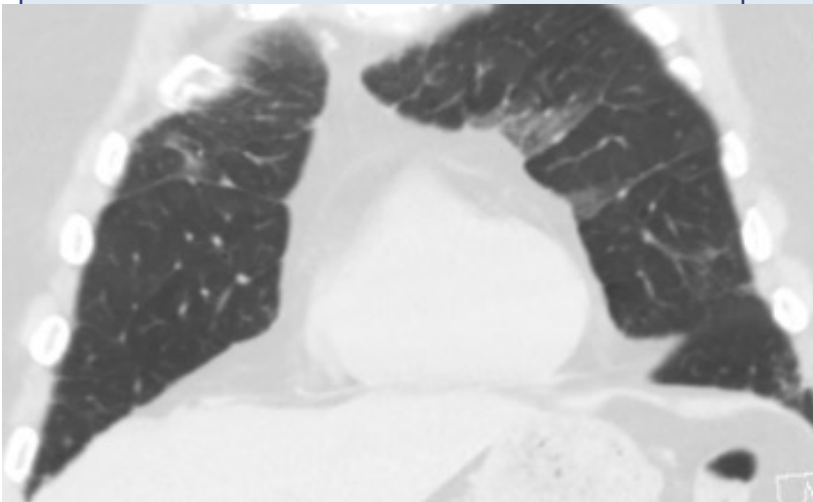
- Any new signs or symptoms
  - Most important: cough, diarrhea, rash, extreme fatigue, headache, chest pain
- New onset sign or symptom impacting daily living in any way
- Labs
  - Creatinine  $>1.5x$  over baseline
  - AST/ALT  $>3x$  ULN and/or Tbili  $>1.5x$  ULN
  - Glucose  $>200$
  - Do NOT need to act immediately for abnormal TSH

# Management of Immune Related AEs

- Immune related AEs typically occur within the first 32 weeks of tx; most within the first 16 weeks, but can occur at any time
- No evidence that intervening with steroids curtails antitumor efficacy of agent

# IO-Related Pneumonitis

Mild (Gr 1)	Moderate (Gr 2)	Severe (Gr 3-4)
<ul style="list-style-type: none"> <li>• Consider holding immunotherapy</li> <li>• Reassess in 1-2 weeks</li> <li>• Pulse oximetry (resting and with ambulation)</li> <li>• Consider CT chest w/ or w/o contrast</li> <li>• Repeat CT in 4 weeks or as clinically indicated for worsening symptoms</li> </ul>	<ul style="list-style-type: none"> <li>• Hold immunotherapy</li> <li>• Consult pulmonary specialist</li> <li>• Must r/o infection (nasal swab, sputum, blood culture, urine culture)</li> <li>• Bronchoscopy</li> <li>• CT chest</li> <li>• Empiric abx if infection not r/o</li> <li>• Prednisone/methylprednisolone 1-2 mg/kg/day – monitor every 3-7 days</li> </ul>	<ul style="list-style-type: none"> <li>• Permanently d/c immunotherapy</li> <li>• Inpatient care</li> <li>• Infectious workup</li> <li>• Bronchoscopy</li> <li>• Methylprednisolone 1-2 mg/kg/day – assess response w/in 48 hours and plan to taper over 6 weeks</li> <li>• If not improvement after 48 hours THEN</li> </ul>



## Consider adding:

- Infliximab 5mg/kg/IV, 2<sup>nd</sup> dose may be repeated 14 days at discretion of tx provider
- IVIG
- Mycophenolate mofetil 1-1.5g BID then taper in consultation w/pulmonary service

# Pneumonitis

- **Pneumonitis differential**
  - Radiation pneumonitis (consider radiation fields)
  - Immune-mediated pneumonitis (consider timing)
  - Pneumonia or infection (consider other symptoms)
- **If non-infectious, initial management of radiation pneumonitis and immune-mediated pneumonitis is similar (steroid therapy)**

# Pneumonitis Management

- Symptoms must be monitored closely
  - Engage entire medical team and caregivers
  - New dyspnea/cough, new hypoxia warrant workup
    - Low threshold to hold therapy for evaluation
- Management guided by grade of pneumonitis
  - Grade 1: asymptomatic, no intervention needed
  - Grade 2: symptomatic, intervention required
  - Grade 3: severe symptoms, limiting ADLs, oxygen indicated
  - Grade 4: life threatening

# Agenda

**Module 1 – Endometrial Cancer**

**Module 2 – Cervical Cancer**





**Module 3 – Clinical Care of Patients Receiving Checkpoint Inhibitors**

**Module 4 – COVID-19: Considerations in Cervical and Endometrial Cancer**

**Module 5 – Oncology 2032 Crystal Ball: Part 1**

Gynecologic Cancers (LA Cantrell, Section Editor)

# COVID-19 and Gynecologic Oncology: What Have We Learned?

*Aurora Leibold, MD<sup>1</sup>*   
*Katyayani Papatla, MD<sup>2</sup>*   
*Kristen P. Zeligs, MD<sup>2,\*</sup>*   
*Stephanie V. Blank, MD<sup>2</sup>* 

## *Questions — David M O'Malley, MD*



### **COVID-19: Considerations in cervical and endometrial cancer**

- **During the past 2 years, how have COVID-19 considerations affected your clinical practice patterns in general?**
- **Currently how do you approach a patient with cancer, either receiving treatment for their cancer or not, who develops asymptomatic COVID-19?**

# ***Commentary — David M O'Malley, MD***



## **COVID-19: Considerations in cervical and endometrial cancer**

- **COVID-19 considerations (2020-2022):** Fear (nearly 100% televisits, teams of the week, alternative treatments); paranoid (no visitors, face shields, widespread testing); concerned (vaccines now available, getting back to some normalcy); optimism (boosters, back to nearly normal); accepting (new normal).
- **Currently how do you approach a patient with cancer, either receiving treatment for their cancer or not, who develops asymptomatic COVID-19?**
  - **COVID-19 Treatment:** A new monoclonal antibody, bebtelovimab, has received EUA approval for the treatment of patients with COVID-19
    - Bebtelovimab is the only monoclonal with clinical efficacy against BA2.
    - eConsult referral will determine which therapy (monoclonal or antiviral) is the most appropriate for the patient based on current supply

# ***Commentary — David M O'Malley, MD***



- Patients who are not eligible for bebtelovimab or other oral therapies may be eligible to enter the NIH-sponsored ACTIV-2 clinical trial which is currently evaluating multiple experimental treatment products against all variants of the SARS-COV-2 virus
- Post-Exposure Prophylaxis: Since the only products currently approved for post-exposure prophylaxis are casirivimab/imdevimab and bamlanivimab/etesevimab which do not have activity against Omicron or BA2, this program has been suspended until a new product is approved for this indication by the FDA.
- Vaccinated, Boosted and not an active therapy – precautions
- Examples of COVID impacting practice
  - Cervical cancer patient delayed rad hyst for 3 months recovering from in-pt admission
  - Multiple delayed tumor reductive surgeries (6 cycles of chemo prior to surgery)
  - 2 weeks delay in chemotherapy schedules

## ***Questions — Jaclyn Shaver, MS, APRN, CNP, WHNP***



### **COVID-19: Considerations in cervical and endometrial cancer**

- **What are some of the ways that telemedicine and tele-education have affected your clinical practice during the COVID-19 pandemic?**
- **Currently what is your approach to COVID-19 vaccines, antibodies and other preventive strategies?**
- **What are some of the psychosocial issues that arise in these situations?**

# ***Commentary —Jaclyn Shaver, MS, APRN, CNP, WHNP***



## **COVID-19: Considerations in cervical and endometrial cancer**

- **TeleMedicine**
  - Benefit both Provider and Patient
  - Challenges
- **Approach to COVID**
  - Patient Recommendations
  - Treatments
  - Facility Standards
- **Psychosocial Issues**
  - Isolation
  - Financial/Social Strains
  - Grief Process

# Agenda

**Module 1 – Endometrial Cancer**

**Module 2 – Cervical Cancer**

**Module 3 – Clinical Care of Patients Receiving Checkpoint Inhibitors**

**Module 4 – COVID-19: Considerations in Cervical and Endometrial Cancer**

**Module 5 – Oncology 2032 Crystal Ball: Part 1**

# *Questions — Robert L Coleman, MD*



## **Fantasies for the future... Oncology 2032?**

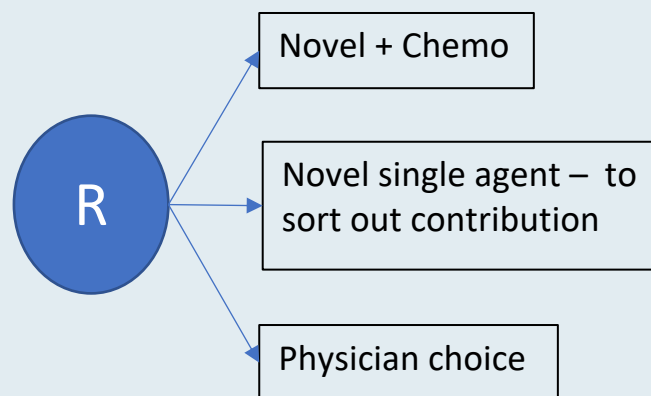
- **What are some of the ongoing trial concepts and strategies that are attempting to take oncology therapy to the next level that excite you the most?**

# Commentary — Robert L Coleman, MD



## Fantasies for the future... Oncology 2032?

- Eligibility: Disease State
- Prior therapy allowance
  - (e.g. if BRCAmut, must have PARPi
  - 1-X lines of therapy
- Prior treatment requirement (e.g. bevacizumab required)
- ECOG 0-1

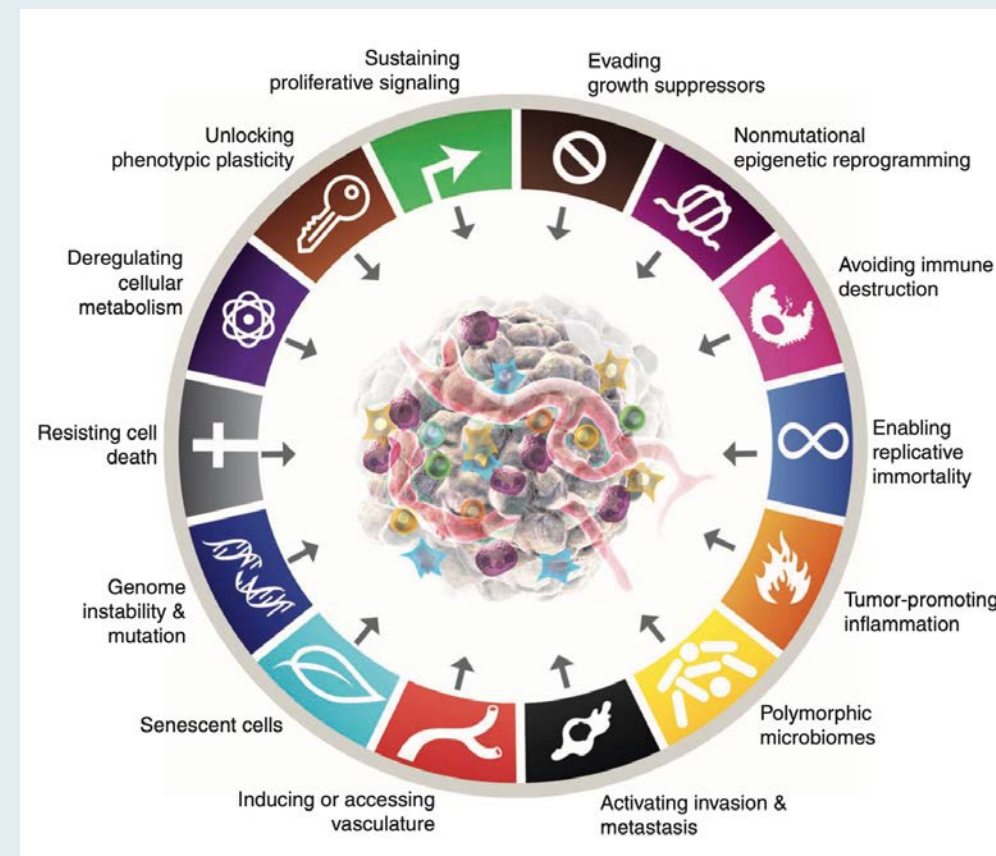


Key exclusion: Ascites (paracentesis within 6 weeks), bowel obstruction (air in small bowel or admission) or visceral crisis

### Statistical Design:

- Adaptive designs (e.g. Phase 2 portion ORR by BICR for AA; Phase 3 portion PFS and interim OS)
- Sample size

Regulatory strategy



# *Questions — Paula J Anastasia, MN, RN, AOCN*



## **Fantasies for the future... Oncology 2032?**

- **What are some of the ways that you could foresee that complementary treatment strategies such as massage, acupuncture, nutrition and exercise support, yoga and meditation could be optimized, including the use of electronic and online tools?**

# ***Commentary — Ms Paula Anastasia***



## **Fantasies for the future... Oncology 2032?**

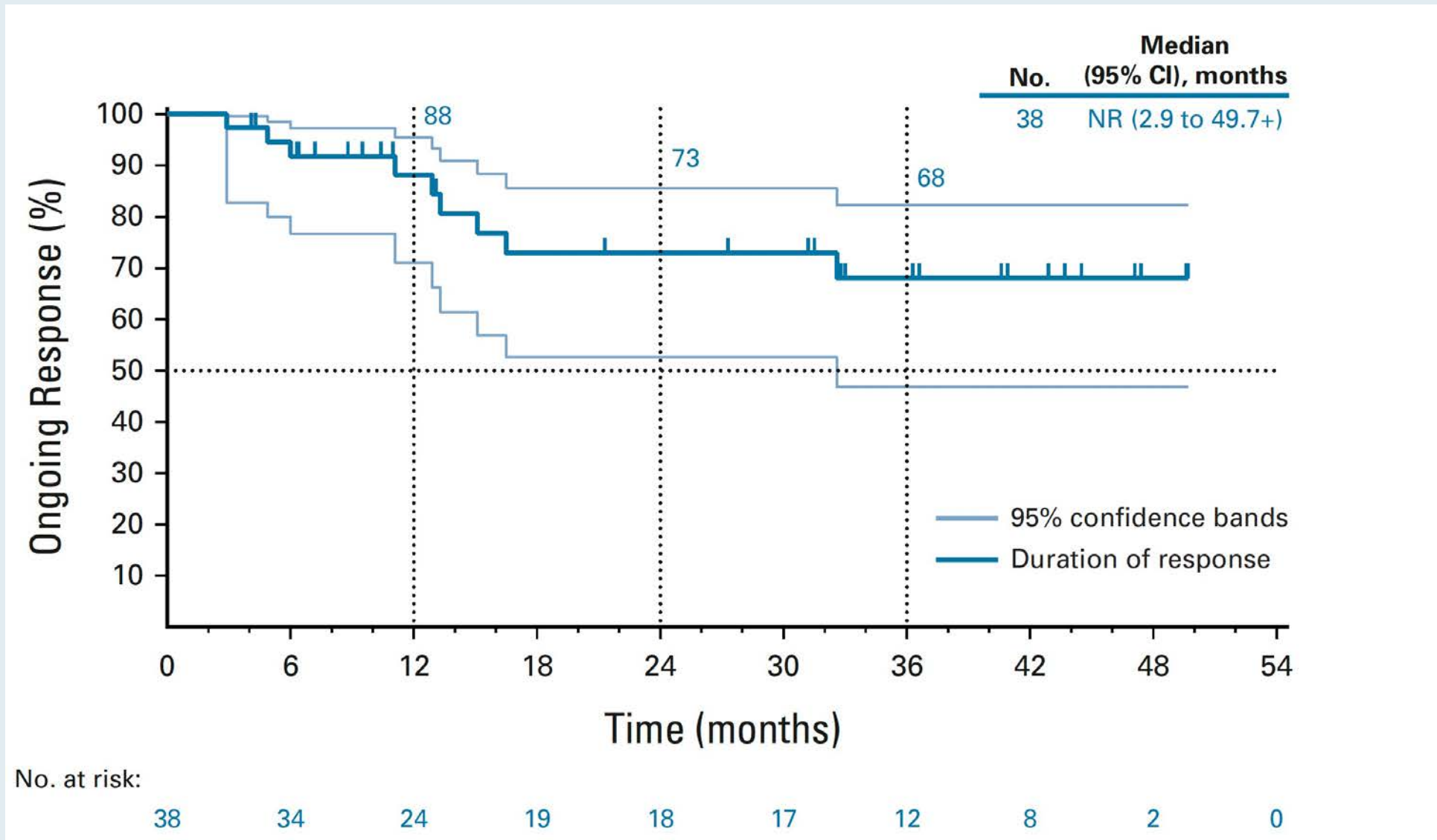
- **Complementary Treatment**
- **Recommend/Endorse complementary therapy, including but not limited to exercise, acupuncture, massage, supportive outlets**
  - Support groups may provide some of these relaxation self care modalities
  - Online exercise, meditation (Head Space, Calm Meditation, Ten Percent happier, Buddhify)
  - National Cervical Cancer Coalition provides a list of national cancer resources
  - Introduce patients of similar demographics to each other: buddy system
  - Ted Talks for affirmation or motivation
  - Information: Foundation for Women's Cancer, American Cancer Society
- **Future: Nurse – WRITE symptom tracking modeled after other disease sites**

# Appendix

# **Pembrolizumab in Patients With Microsatellite Instability–High Advanced Endometrial Cancer: Results From the KEYNOTE-158 Study**

David M. O'Malley, MD<sup>1</sup>; Giovanni Mendonca Bariani, MD<sup>2</sup>; Philippe A. Cassier, MD<sup>3</sup>; Aurelien Marabelle, MD, PhD<sup>4</sup>; Aaron R. Hansen, MBBS<sup>5</sup>; Ana De Jesus Acosta, MD<sup>6</sup>; Wilson H. Miller Jr, MD, PhD<sup>7,8</sup>; Tamar Safr, MD<sup>9,10</sup>; Antoine Italiano, MD, PhD<sup>11,12</sup>; Linda Mileskin, MBBS<sup>13</sup>; Lei Xu, PhD<sup>14</sup>; Fan Jin, MD<sup>14</sup>; Kevin Norwood, MD<sup>14</sup>; and Michele Maio, MD<sup>15</sup>

# KEYNOTE-158: Kaplan-Meier Analysis of Duration of Response



ORIGINAL ARTICLE

# Pembrolizumab for Persistent, Recurrent, or Metastatic Cervical Cancer

N. Colombo, C. Dubot, D. Lorusso, M.V. Caceres, K. Hasegawa,  
R. Shapira-Frommer, K.S. Tewari, P. Salman, E. Hoyos Usta, E. Yañez, M. Gümüş,  
M. Olivera Hurtado de Mendoza, V. Samouëlian, V. Castonguay, A. Arkhipov,  
S. Toker, K. Li, S.M. Keefe, and B.J. Monk, for the KEYNOTE-826 Investigators\*

# KEYNOTE 826: Adverse Events of Any Cause with an Incidence of 20% or More in Either Group

Event	Pembrolizumab Group (N = 307) <sup>†</sup>		Placebo Group (N = 309) <sup>†</sup>	
	Any Grade	Grade 3–5	Any Grade	Grade 3–5
	<i>number of patients (percent)</i>			
Any event	305 (99.3)	251 (81.8) <sup>‡</sup>	307 (99.4)	232 (75.1) <sup>§</sup>
Anemia	188 (61.2)	93 (30.3)	165 (53.4)	83 (26.9)
Alopecia	173 (56.4)	0	179 (57.9)	0
Nausea	122 (39.7)	6 (2.0)	135 (43.7)	5 (1.6)
Diarrhea	109 (35.5)	6 (2.0)	92 (29.8)	8 (2.6)
Fatigue	88 (28.7)	11 (3.6)	84 (27.2)	14 (4.5)
Constipation	87 (28.3)	1 (0.3)	102 (33.0)	3 (1.0)
Arthralgia	82 (26.7)	2 (0.7)	80 (25.9)	4 (1.3)
Peripheral neuropathy	81 (26.4)	8 (2.6)	79 (25.6)	9 (2.9)
Vomiting	81 (26.4)	8 (2.6)	84 (27.2)	6 (1.9)
Hypertension	74 (24.1)	29 (9.4)	71 (23.0)	33 (10.7)
Urinary tract infection	73 (23.8)	27 (8.8)	80 (25.9)	25 (8.1)
Neutropenia	72 (23.5)	38 (12.4)	60 (19.4)	30 (9.7)
Peripheral sensory neuropathy	71 (23.1)	3 (1.0)	79 (25.6)	6 (1.9)
Asthenia	63 (20.5)	11 (3.6)	66 (21.4)	5 (1.6)
Thrombocytopenia	61 (19.9)	23 (7.5)	62 (20.1)	14 (4.5)

# **What I Tell My Patients: New Treatments and Clinical Trial Options**

*An NCPD Hybrid Symposium Series  
Held During the 47<sup>th</sup> Annual ONS Congress*

## **Bladder Cancer**

**Saturday, April 30, 2022**

**12:15 PM – 1:45 PM PT**

### **Faculty**

**Monica Averia, MSN, AOCNP, NP-C**

**Shilpa Gupta, MD**

**Brenda Martone, MSN, NP-BC, AOCNP**

**Sumanta Kumar Pal, MD**

### **Moderator**

**Neil Love, MD**

***Thank you for joining us!***

***In-person attendees: Please fill out your Educational Assessment and NCPD Credit Form.***

***Online attendees: NCPD credit information will be emailed to each participant within 3 business days.***