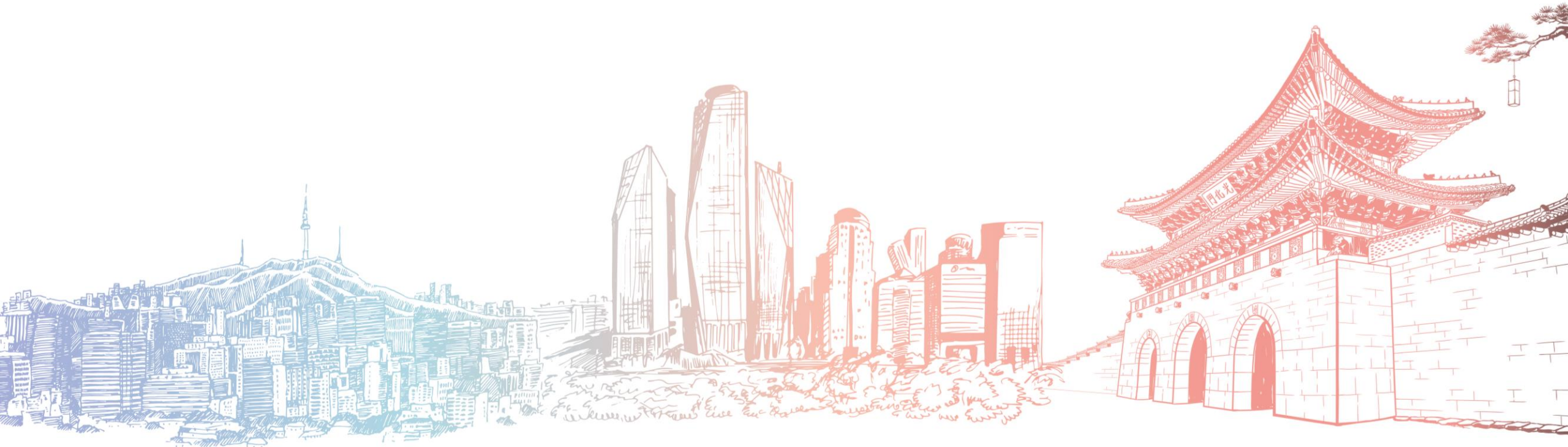


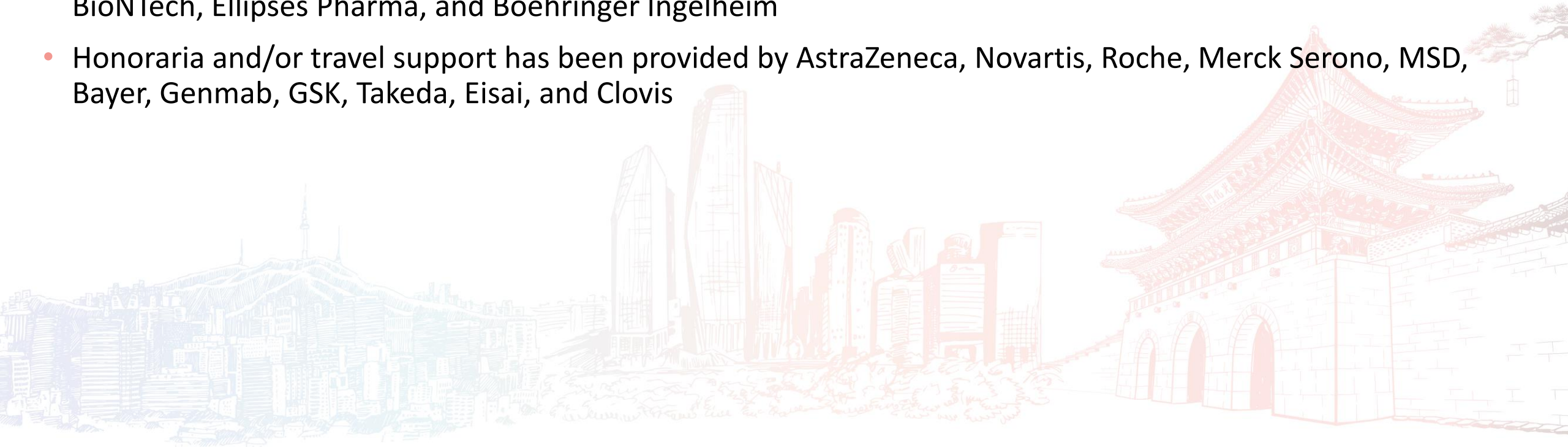
Expansion of ICI: investigating combination with PARPi or TKI and beyond for treatment of primary advanced/recurrent EC

Dr. David SP Tan



Disclosures

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- Honoraria and/or travel support has been provided by AstraZeneca, Novartis, Roche, Merck Serono, MSD, Bayer, Genmab, GSK, Takeda, Eisai, and Clovis

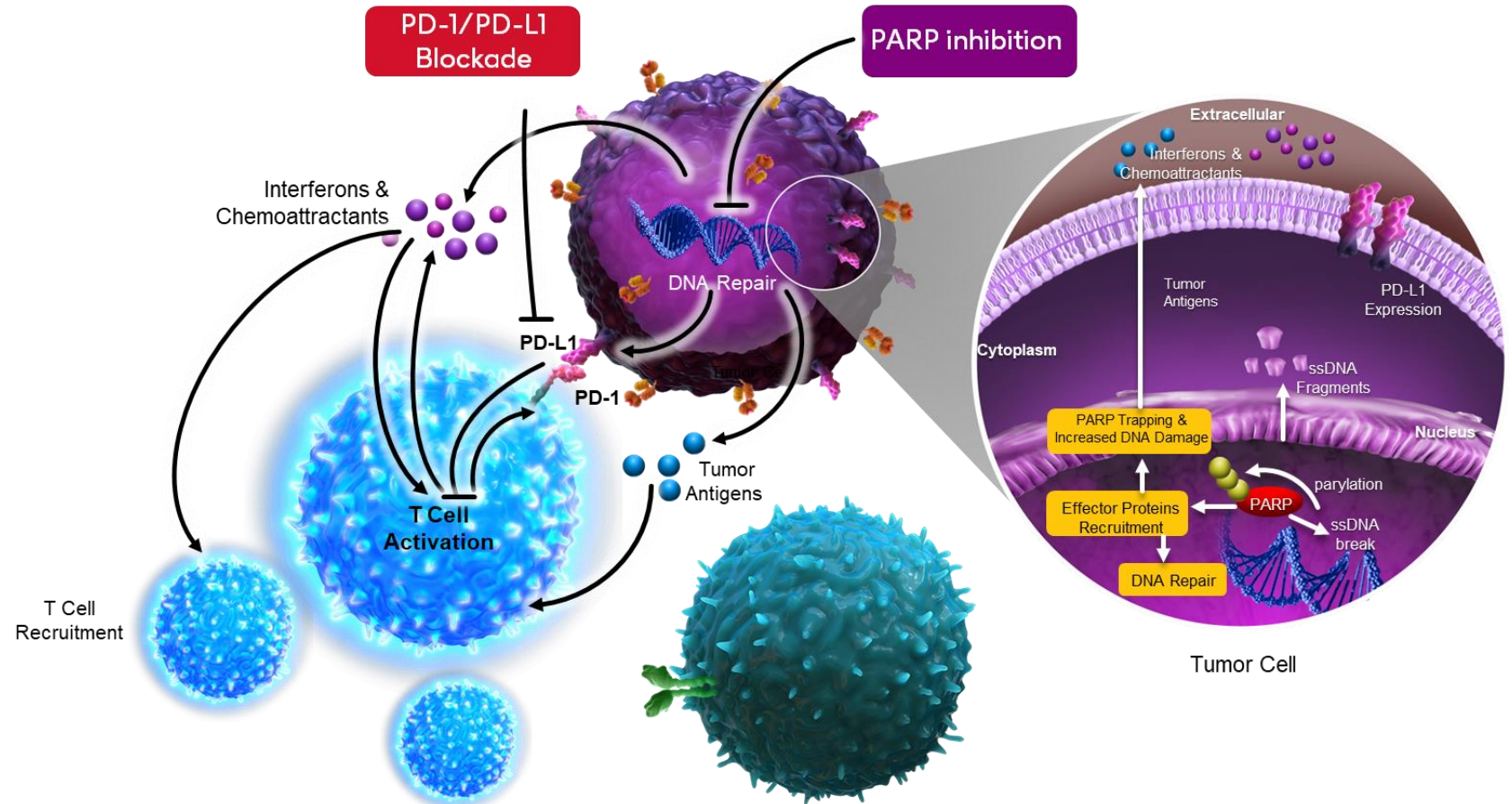


Rationale for combining PARPi and anti-PD-(L)1¹⁻³

Some ECs have HRD and high PARP-1 expression, suggesting therapeutic potential of PARP inhibitors²

RUBY Part 2 is currently investigating the combination of dostarlimab + niraparib⁴

DUO-E is currently investigating the combination of durvalumab + olaparib⁵



DNA = deoxyribonucleic acid; EC = endometrial cancer; HRD = homologous recombination deficiency; p53abn = p53 abnormal; PARP = poly adenosine diphosphate-ribose polymerase; PARPi = poly adenosine diphosphate-ribose polymerase inhibitor; PD-1 = programmed cell death-1; PD-L1 = programmed cell death ligand-1; ssDNA = single-stranded DNA.

1. Jiao S, et al. *Clin Cancer Res.* 2017;23:3711-3720. 2. Arciuolo DT, et al. *Int J Mol Sci.* 2022;23:11684. 3. Vikas P, et al. *Front Oncol.* 2020;10:570. 4. Mirza MR, et al. *Ann Oncol.* 2021;32:S770-S771. 5. Westin SN, et al. *J Clin Oncol.* 2023; DOI: 10.1200/JCO.23.02132.

DUO-E | ENGOT-en10 | GOG-3041 | NCT04269200^{1,2}

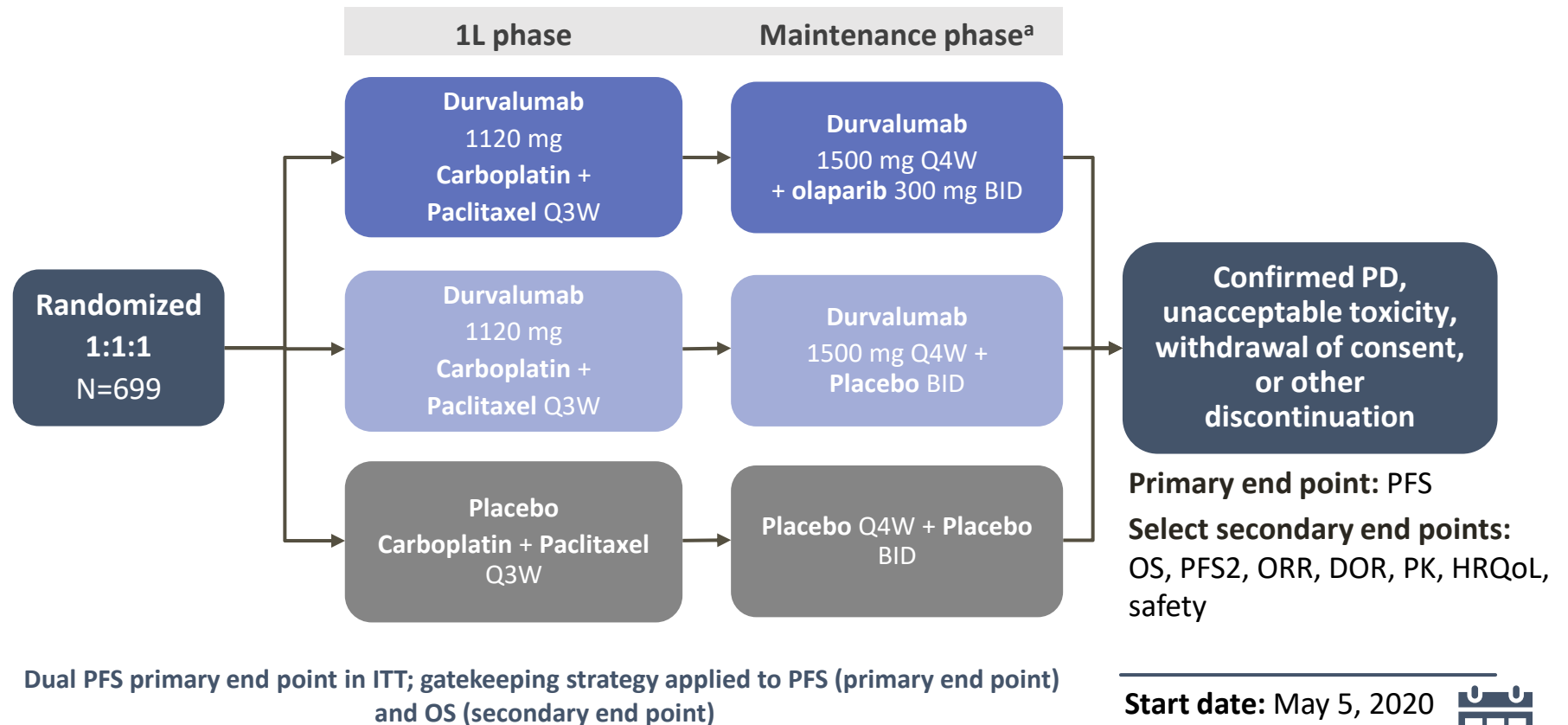
Durvalumab + carboplatin/paclitaxel followed by durvalumab + olaparib

Eligible patients:

- Recurrent or primary advanced (stage III or IV) endometrial cancer
- ECOG PS 0-1
- Age ≥18 years
- Naïve to first line systemic anticancer treatment
- Naïve to PARPi and IO
- Adjuvant chemotherapy allowed if ≥12 months from last treatment to relapse

Stratification:

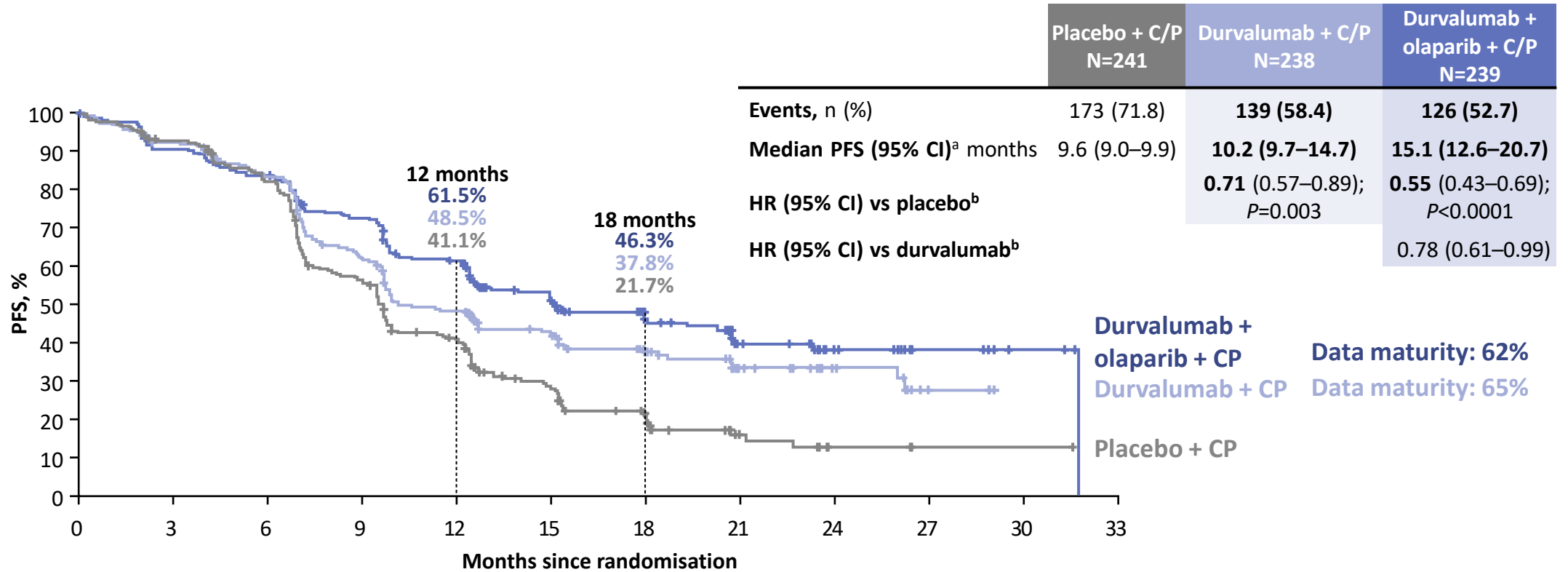
- MMR status
- Disease status
- Geographic region



^aPatients who achieve and maintain disease control (complete response, partial response, or stable disease) during the chemotherapy phase (minimum of 6 cycles) will receive maintenance therapy.
 1L = first line; BID = twice daily; DOR = duration of response; EC = endometrial cancer; ECOG PS = Eastern Cooperative Oncology Group performance status; ENGOT = European Network of Gynecological Oncological Trial Groups; HRQoL = health-related quality of life; MMR = mismatch repair; ORR = objective response rate, OS = overall survival; PD = progressive disease; PFS = progression-free survival; PFS2 = time to second disease progression or death; PK = pharmacokinetics; QxW = every x weeks.
 1. National Library of Medicine. Available at <https://clinicaltrials.gov/ct2/show/NCT04269200>. Accessed August 14, 2023. 2. Westin SN et al. *J Clin Oncol* 2023; DOI: 10.1200/JCO.23.02132.

DUO-E: primary end point PFS in ITT population

Durvalumab + carboplatin/paclitaxel followed by durvalumab + olaparib



No. at risk

	0	3	6	9	12	15	18	21	24	27	30	33
Durvalumab + olaparib + CP	239	214	198	169	139	95	51	30	16	7	3	0
Durvalumab + CP	238	211	188	138	105	69	45	26	13	5	0	0
Placebo + CP	241	213	184	125	86	45	26	10	3	1	1	0

Adapted from Westin SN, et al. *J Clin Oncol.* 2023; DOI: 10.1200/JCO.23.02132 published by the American Society of Clinical Oncology.

The median (range) duration of follow up for PFS was 12.6 (0.0-31.6), 15.4 (0.0-29.1), and 15.4 (0.0-31.7) months in censored patients for the placebo, durvalumab, and durvalumab + olaparib arms, respectively. PFS rates were estimated by the KM method.

^aCI for median PFS is derived based on the Brookmeyer Crowley method. ^bThe primary PFS analysis for each comparison was performed separately. The HR and CI were estimated from a Cox proportional hazards model stratified by MMR and disease status. The CI was calculated using a profile likelihood approach. The P value was calculated using a log rank test stratified by MMR and disease status.

CI = confidence interval; CP = carboplatin/paclitaxel; HR = hazard ratio; ITT = intention to treat; KM = Kaplan Meier; MMR = mismatch repair; PFS = progression-free survival.

Westin SN, et al. *J Clin Oncol.* 2023; DOI: 10.1200/JCO.23.02132.

DUO-E | Summary of safety end points

Safety, n (%)	Chemotherapy + maintenance phase			Maintenance phase		
	Placebo + C/P → Placebo + Placebo N=236	Durvalumab + C/P → Durvalumab + Placebo N=235	Durvalumab + C/P → Durvalumab + Olaparib N=238	Placebo + C/P → Placebo + Placebo N=169	Durvalumab + C/P → Durvalumab + Placebo N=183	Durvalumab + C/P → Durvalumab + Olaparib N=192
Any AE	236 (100)	232 (98.7)	237 (99.6)	143 (84.6)	158 (86.3)	184 (95.8)
Grade ≥3 AEs	133 (56.4)	129 (54.9)	160 (67.2)	28 (16.6)	30 (16.4)	79 (41.1)
AEs with outcome of death	8 (3.4)	4 (1.7)	5 (2.1)	2 (1.2)	0	3 (1.6)
Any irAE ^a	16 (6.8)	66 (28.1)	56 (23.5)	6 (3.6)	27 (14.8)	27 (14.1)
AEs of special interest for olaparib						
MDS/AML ^b	0	0	0	0	0	0
New primary malignancies ^b	3 (1.3)	1 (0.4)	2 (0.8)	2 (1.2)	1 (0.5) ^e	1 (0.5)
Pneumonitis ^c	1 (0.4)	4 (1.7)	12 (5.0)	0	3 (1.6)	8 (4.2)
AEs leading to dose reduction of olaparib/placebo ^d	5 (2.1)	14 (6.0)	65 (27.3)	4 (2.4)	13 (7.1)	63 (32.8)

^aAs assessed by the investigator, and programmatically derived from individual causality assessments for combination studies. Missing responses are counted as related; ^bMDS/AML and new primary malignancies include AEs from first dose of investigational product (durvalumab/olaparib/placebo) until the end of the study (includes cases reported beyond the safety follow up period); ^cGrouped term: includes pneumonitis, bronchiolitis, and interstitial lung disease; As assessed by the investigator, and programmatically derived from individual causality assessments for combination studies. Missing responses are counted as related; ^dFor durvalumab/placebo, this includes dose interruption during infusion as well as doses that were skipped or delayed.

^eExcludes one event of basal cell carcinoma.

AE = adverse event; AML = acute myeloid leukemia; C/P = carboplatin/paclitaxel; EC = endometrial cancer; irAE = immune-related adverse event; MDS = myelodysplastic syndrome.

Westin SN, et al. *J Clin Oncol.* 2023; DOI: 10.1200/JCO.23.02132.

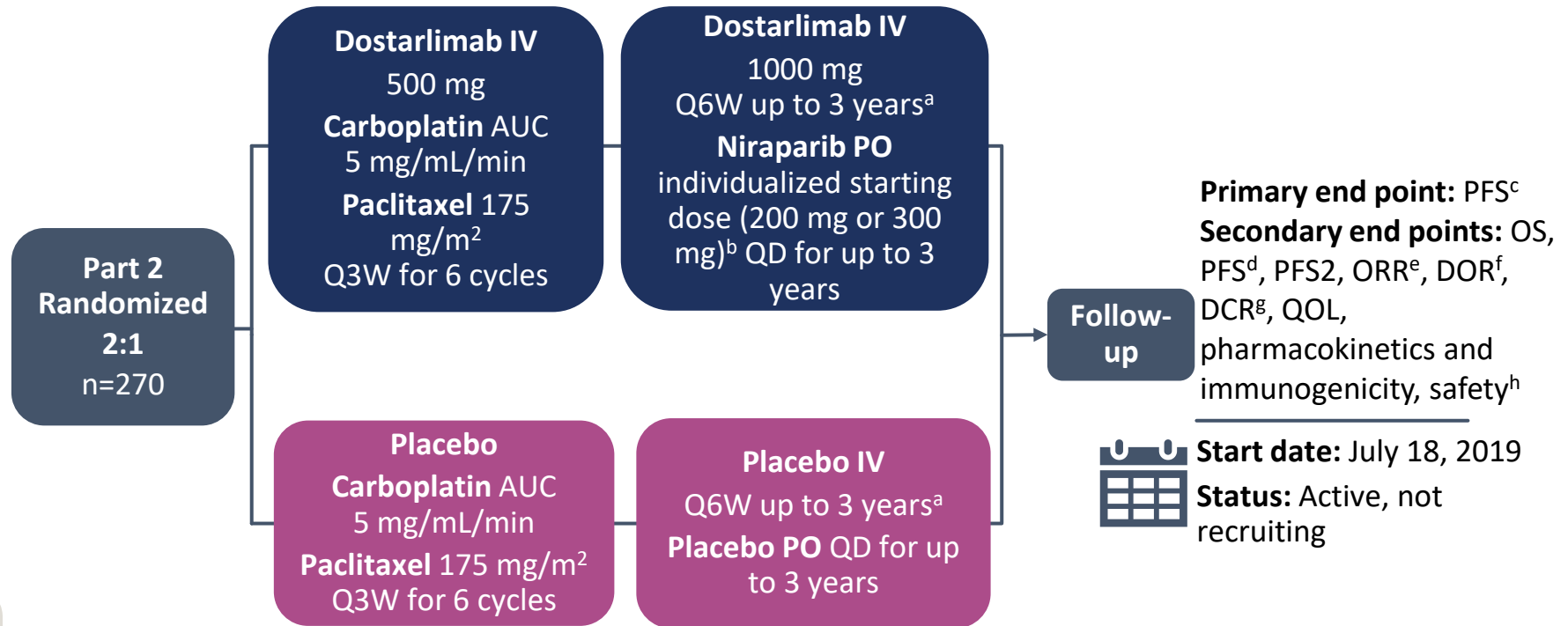
RUBY Part 2 | ENGOT-EN6 | GOG-3031 | NCT03981796

Eligible patients:

- Histologically or cytologically proven EC with recurrent or advanced disease
- Stage III or IV disease or first recurrent EC with low potential for cure by radiation therapy or surgery alone or in combination
- Naive to systemic anticancer therapy or had a recurrence or PD ≥ 6 months after completing systemic anticancer therapy
- ECOG PS 0-1
- Adequate organ function

Stratification:

- MMR/MSI status
- Prior radiotherapy
- Disease status



^aTreatment ends after 3 years, PD, toxicity, withdrawal of consent, investigator's decision, or death, whichever occurs first. Continued treatment with dostarlimab or placebo beyond 3 years may be considered following discussion between the Sponsor and the Investigator. ^bNiraparib starting dose: 300 mg in patients with an actual body weight ≥ 77 kg and platelet count $\geq 150,000/\mu\text{L}$; 200 mg in patients with an actual body weight < 77 kg or platelet count $< 150,000/\mu\text{L}$ or both. ^cPFS by IA – all patients with recurrent or primary advanced EC (ITT population). ^dPFS by BICR per RECIST v1.1 (not IA) – ITT and dMMR/MSI-H populations. ^eORR by BICR and IA. ^fDOR by BICR and IA, ^gDCR by BICR and IA. ^hAll AEs assessed for intensity according to CTCAE v4.03.

AUC = area under the plasma or serum concentration-time curve; BICR = blinded independent central review; CTCAE = Common Terminology Criteria for Adverse Events; DCR = disease control rate; dMMR = mismatch repair deficient; DOR = duration of response; EC = endometrial cancer; ECOG PS = Eastern Cooperative Oncology Group performance status; IA = investigator assessed; ITT = intention to treat; IV = intravenous; MMR = mismatch repair; MSI = microsatellite instability; MSI-H = microsatellite instability-high; ORR = objective response rate; OS = overall survival; PD = progressive disease; PFS = progression-free survival; PFS2 = time to second disease progression or death; PO = administered orally; PRO = patient-reported outcome; PS = performance status; Q = quarter; QD = once-daily; QoL = quality of life; QxW = every x weeks; RECIST = Response Evaluation Criteria in Solid Tumors.

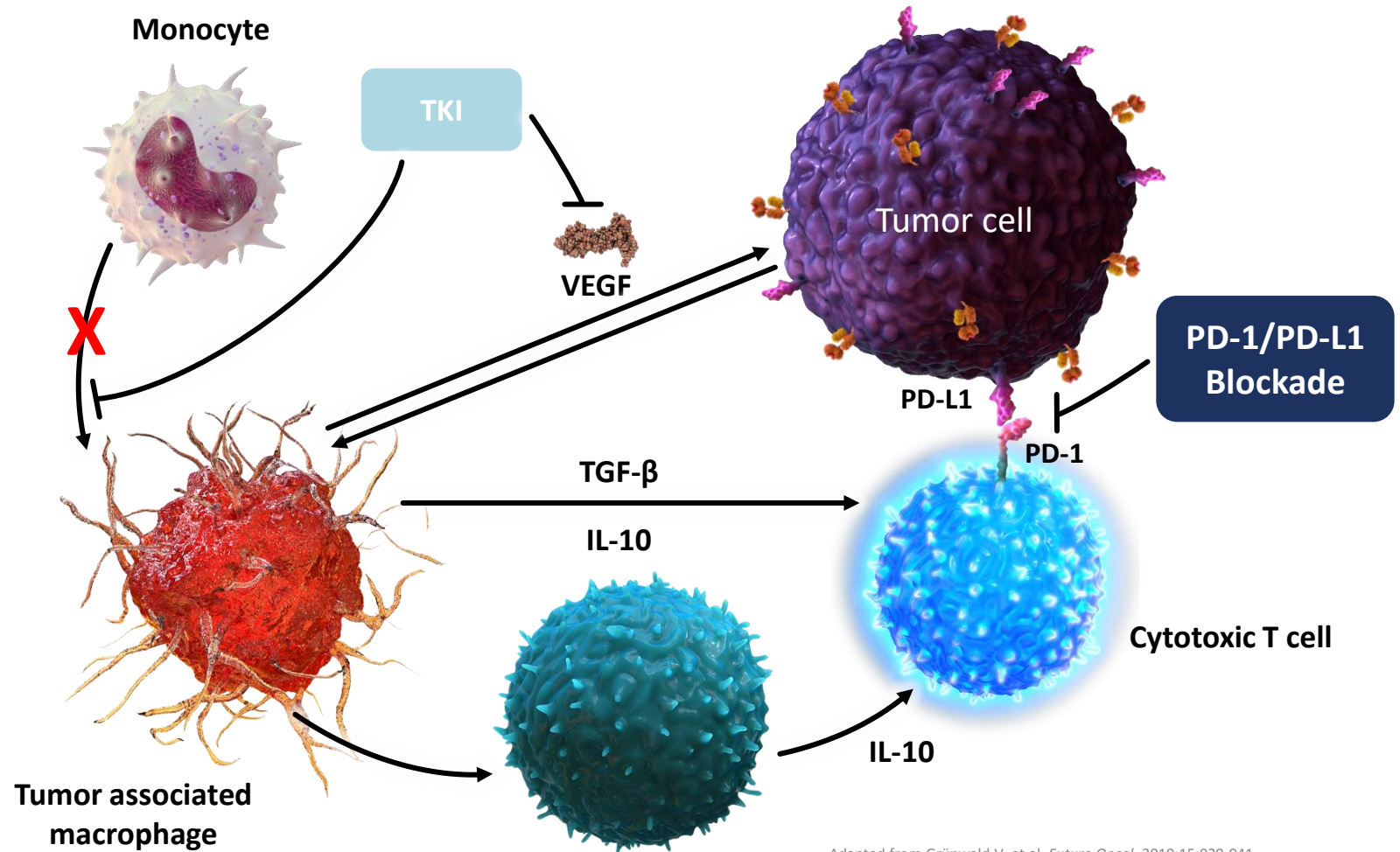
National Library of Medicine. Available at <https://clinicaltrials.gov/ct2/show/NCT03981796>. Accessed August 14, 2023.

Rationale for combining TKI and anti-PD-(L)1^{1,2}

The TKI lenvatinib¹:

- Increases CD8+ T cell function
- Increases cytotoxicity of NK cells
- Decreases expression of PD-1, CTLA-4, and TIM3 in T cells
- Inhibits T cell exhaustion¹

LEAP-001 is currently investigating the combination of pembrolizumab plus lenvatinib³



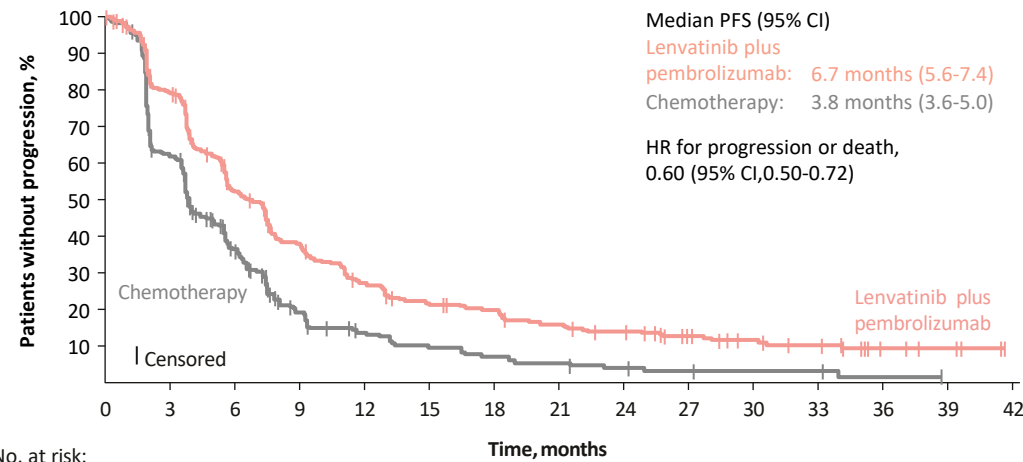
Adapted from Grünwald V, et al. *Future Oncol.* 2019;15:929-941.

CD8 = cluster of differentiation 8; CTLA-4 = cytotoxic T-lymphocyte associated protein 4; IL-10 = interleukin 10; IO = immuno-oncology; NK = natural killer; PD-1 = programmed cell death-1; PD-L1 = programmed cell death ligand-1; TGF-β = transforming growth factor beta; TIM3 = T cell immunoglobulin and mucin domain 3; TKI = tyrosine kinase inhibitor; VEGF = vascular endothelial growth factor.

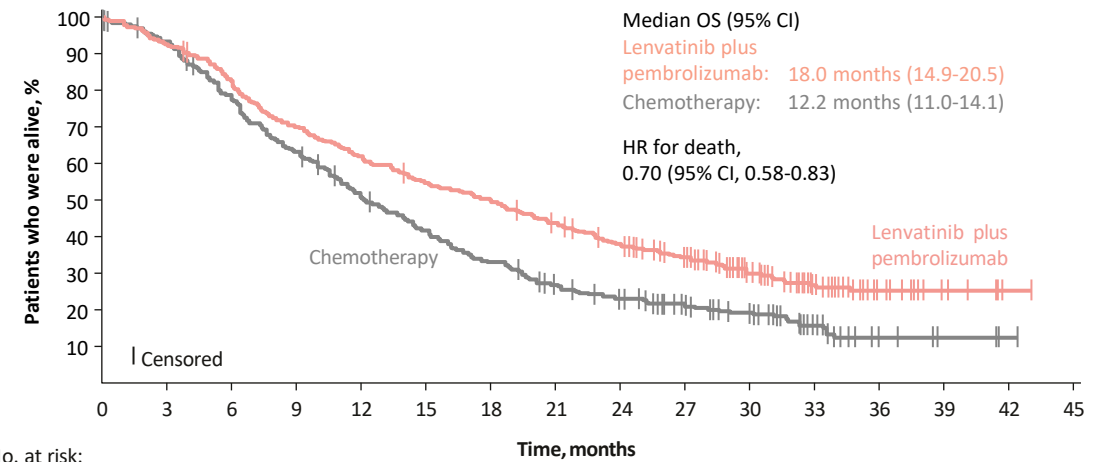
1. Lu Y, et al. *Front Cell Dev Biol.* 2021;9:730240. 2. Grünwald V, et al. *Future Oncol.* 2019;15:929-941. 3. Marth C, et al. *Int J Gynecol Cancer.* 2022;32:93-100.

The combination of PD-1 and TKI has been evaluated in previously treated EC¹

KEYNOTE-775¹



No. at risk:	Time, months														
	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42
Lenvatinib plus pembrolizumab	346	265	166	116	80	61	55	43	36	24	18	14	6	4	0
Chemotherapy	351	177	83	38	23	16	12	9	6	4	3	3	1	0	0



No. at risk:	Time, months														
	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42
Lenvatinib plus pembrolizumab	346	322	285	242	214	188	171	148	124	95	65	41	20	7	2
Chemotherapy	351	324	267	217	171	138	111	86	71	53	40	21	6	3	1

Adapted from Makker V, et al. *J Clin Oncol.* 2023;41(16):2904-2910.

Pembrolizumab + lenvatinib is approved for advanced/recurrent EC (EU)² with progression following platinum-based therapy and for advanced MMRp EC (US)³ with progression

CI = confidence interval; EC = endometrial cancer; EU = European Union; HR = hazard ratio; mo = months; MMRp = mismatch repair proficient; mPFS = median progression-free survival; PD-1 = programmed cell death protein 1; PFS = progression-free survival; TEAE = treatment-emergent adverse event; TKI = tyrosine kinase inhibitor; US = United States.

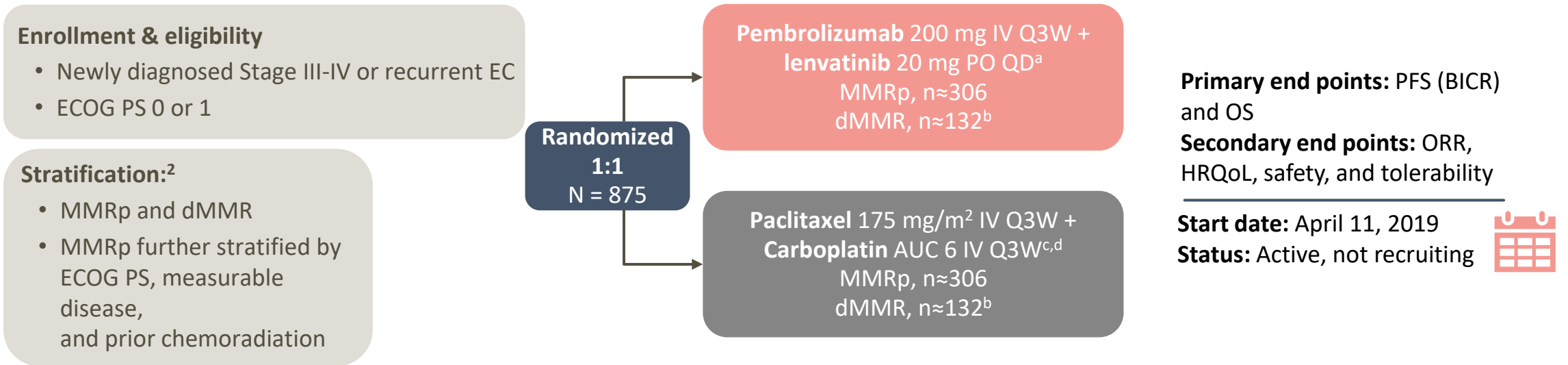
1. Makker V et al. *J Clin Oncol* 2023;41:2904-2910. 2. Keytruda (pembrolizumab) [summary of product characteristics]. Merck Sharp & Dohme B.V., Haarlem, The Netherlands; 2023. 3. Keytruda (pembrolizumab) [prescribing information]. Merck & Co., Inc., Whitehouse Station, NJ, USA; 2023.

KEYNOTE-775: Safety in the MMRp population

	Pembrolizumab + lenvatinib	Doxorubicin or paclitaxel
Safety population, N	406	388
Grade ≥3 TRAE, n (%)	320 (78.8)	233 (60.1)
Any TRAE leading to discontinuation of pembrolizumab, n (%)	49 (12.1)	NA
TRAE leading to death, n (%)	6 (1.5)	9 (2.3)

The most common TEAEs (>20% of patients) in the pembrolizumab + lenvatinib arm were hypertension (61.8%), hypothyroidism (55.7%), diarrhea (43.1%), nausea (39.9%) and decreased appetite (37.9%), fatigue (28.6%), proteinuria (26.6%), vomiting (24.4%), weight decreased (22.7%), arthralgia (22.2%), and palmar-plantar erythrodysesthesia syndrome (20.7%)

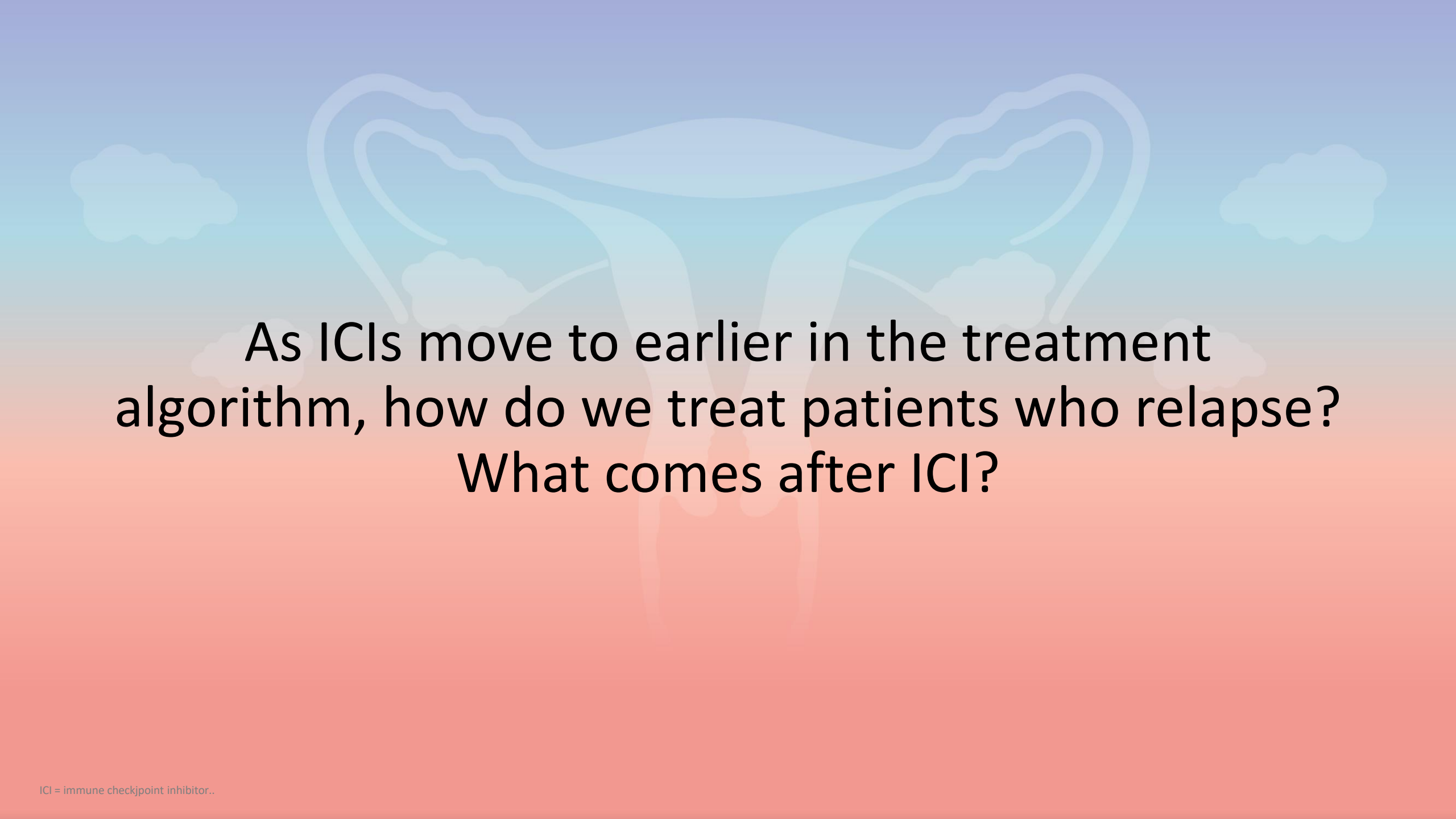
LEAP-001 | ENGOT-en9 | MK-7902-001 | NCT03884101



^aTreat until disease progression or unacceptable toxicity. Pembrolizumab must be stopped after 35 cycles, but lenvatinib may continue after stopping pembrolizumab. ^bStudy will be fully enrolled when 612 patients with MMRp tumors and ~263 patients with dMMR tumors are recruited. ^cA lower starting dose of paclitaxel (135 mg/m²) and carboplatin (AUC 5 mg/mL/min) may be administered to patients at risk of developing toxicities due to previous pelvic/spine radiation. An AUC of 5 mg/mL/min dose of carboplatin may be administered in accordance with local practice. ^dPatients may receive up to 7 cycles of paclitaxel/carboplatin; however, chemotherapy treatment beyond 7 cycles may be permitted (with the sponsors' approval) for patients who continue to derive clinical benefit.

AUC = area under the curve; BICR = blinded independent central review; DCR = disease control rate; dMMR = deficient mismatch repair; DOR = duration of response; EC = endometrial cancer; ECOG PS = Eastern Cooperative Oncology Group performance status; ENGOT = European Network of Gynaecological Oncological Trial Groups; HRQoL = health-related quality of life; IV = intravenous; MMRp = mismatch repair proficient; ORR = objective response rate; OS = overall survival; PFS = progression-free survival; PO = orally; Q3W = every 3 weeks; QD = once daily.

1. National Library of Medicine. <https://www.clinicaltrials.gov/ct2/show/NCT03884101>. Accessed August 14, 2023. 2. Marth C et al. *Int J Gynecol Cancer*. 2022;32:92-100.



As ICIs move to earlier in the treatment algorithm, how do we treat patients who relapse?
What comes after ICI?

Is there a role for ICI rechallenge following prior ICI therapy in EC?

- Patient selection—three scenarios
 - Long PFS post-ICI therapy followed by PD
 - PD during/immediately post-ICI therapy
 - Prior premature withdrawal from ICI therapy due to toxicity
- Choice of rechallenge therapy
 - Rechallenge with PD-1 inhibitor alone or with pembrolizumab/lenvatinib

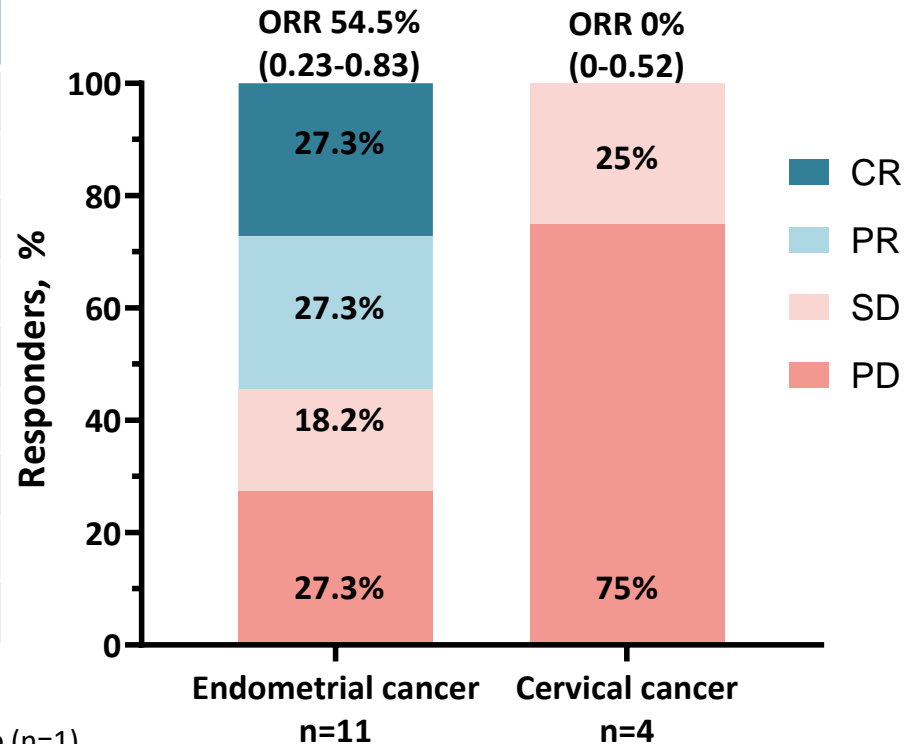
ICI rechallenge?

Single center, retrospective study evaluated 11 patients with EC who received subsequent immunotherapy

Patient characteristics	EC n=11	Cervical cancer n=4
MMR status, n (%)		
dMMR	8 (72.7)	0
MMRp	3 (27.3)	1 (25.0)
Unknown	0	3 (75.0)
TMB status, n (%)		
Low	1 (9.1)	0
Medium	0	0
High	3 (27.3)	0
Unknown	7 (63.6)	4 (100)

ICI agents received

- 1L ICI
 - EC: pembrolizumab (n=9), dostarlimab (n=1), atezolizumab (n=1)
 - CC (n=1 each): pembrolizumab, nivolumab, atezolizumab, balstilimab
- 2L ICI
 - EC: pembrolizumab (n=4), pembrolizumab/ lenvatinib (n=4), nivolumab (n=2), ipilimumab/ nivolumab (n=1)
 - CC: pembrolizumab (n=3). other (n=1)



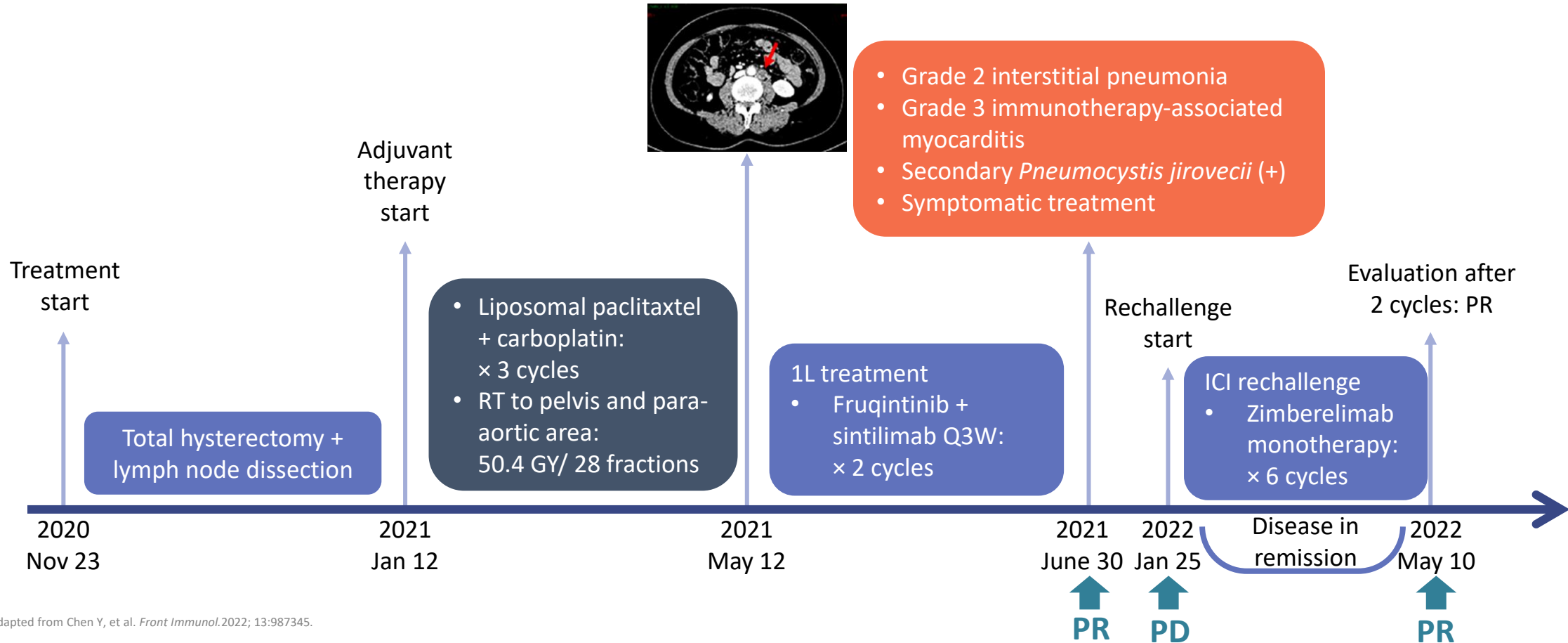
EC Grade 3 and 4 AE

- 1L ICI
 - GI or colitis, n=1
- 2L ICI
 - Endocrine, n=1
 - GI or colitis, n=1

Cervical cancer did not report any Grade 3 and 4 AEs

ICI rechallenge?

Case report: Patient with dMMR EC, PR after anti-VEGFR-1/2/3 + anti-PD-1 and unacceptable toxicities re-established PR when restarted on anti-PD-1

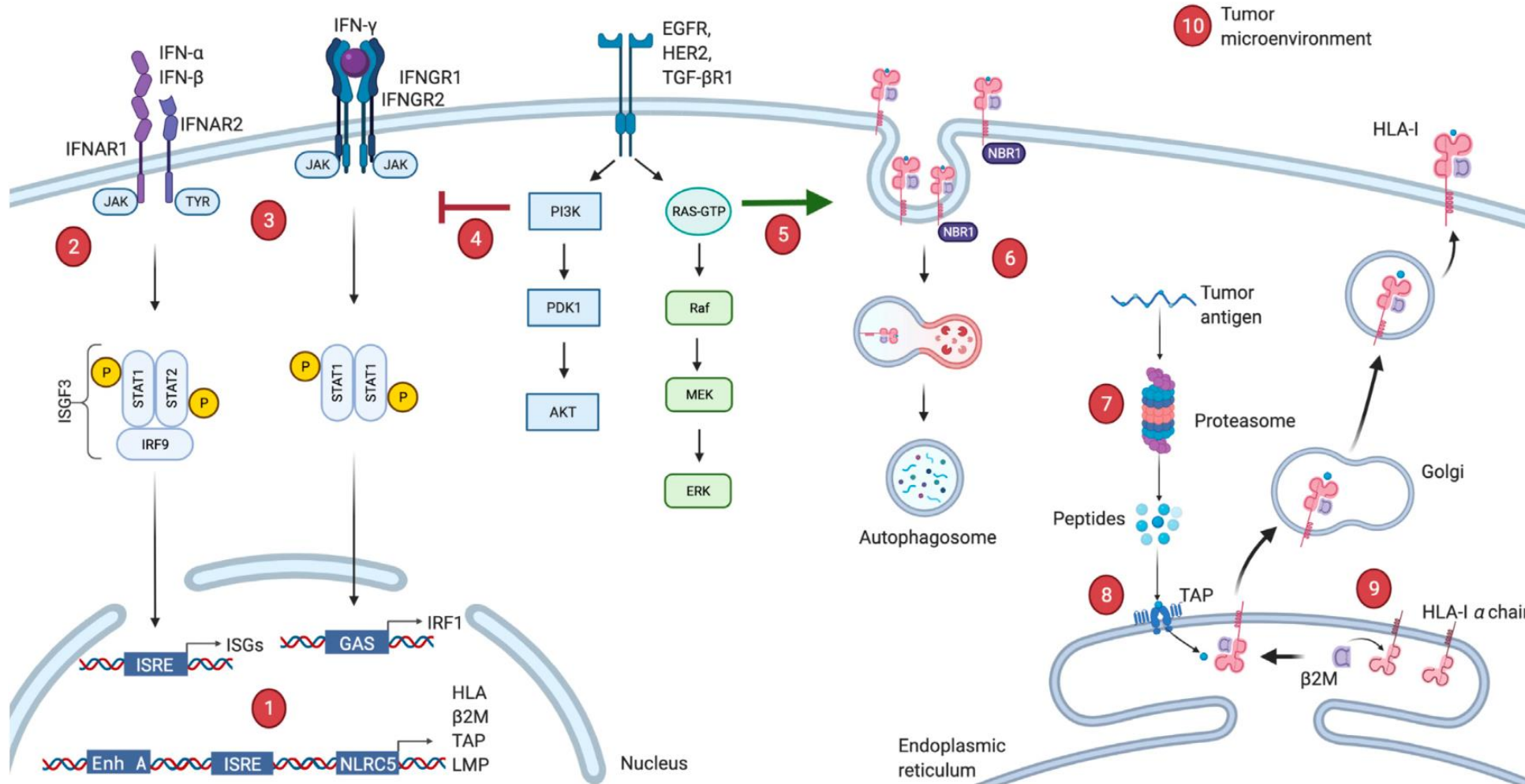


Adapted from Chen Y, et al. *Front Immunol.*2022; 13:987345.

dMMR = mismatch repair deficient; EC = endometrial cancer; ICI = immune checkpoint inhibitor; PD = progressive disease; PR = partial response; PD-1 = programmed cell death-1; Q3W = every 3 weeks; RT = radiotherapy; VEGFR = vascular endothelial growth factor receptor.

Chen Y, et al. *Front Immunol.*2022; 13:987345.

HLA-I dysregulation and immune resistance

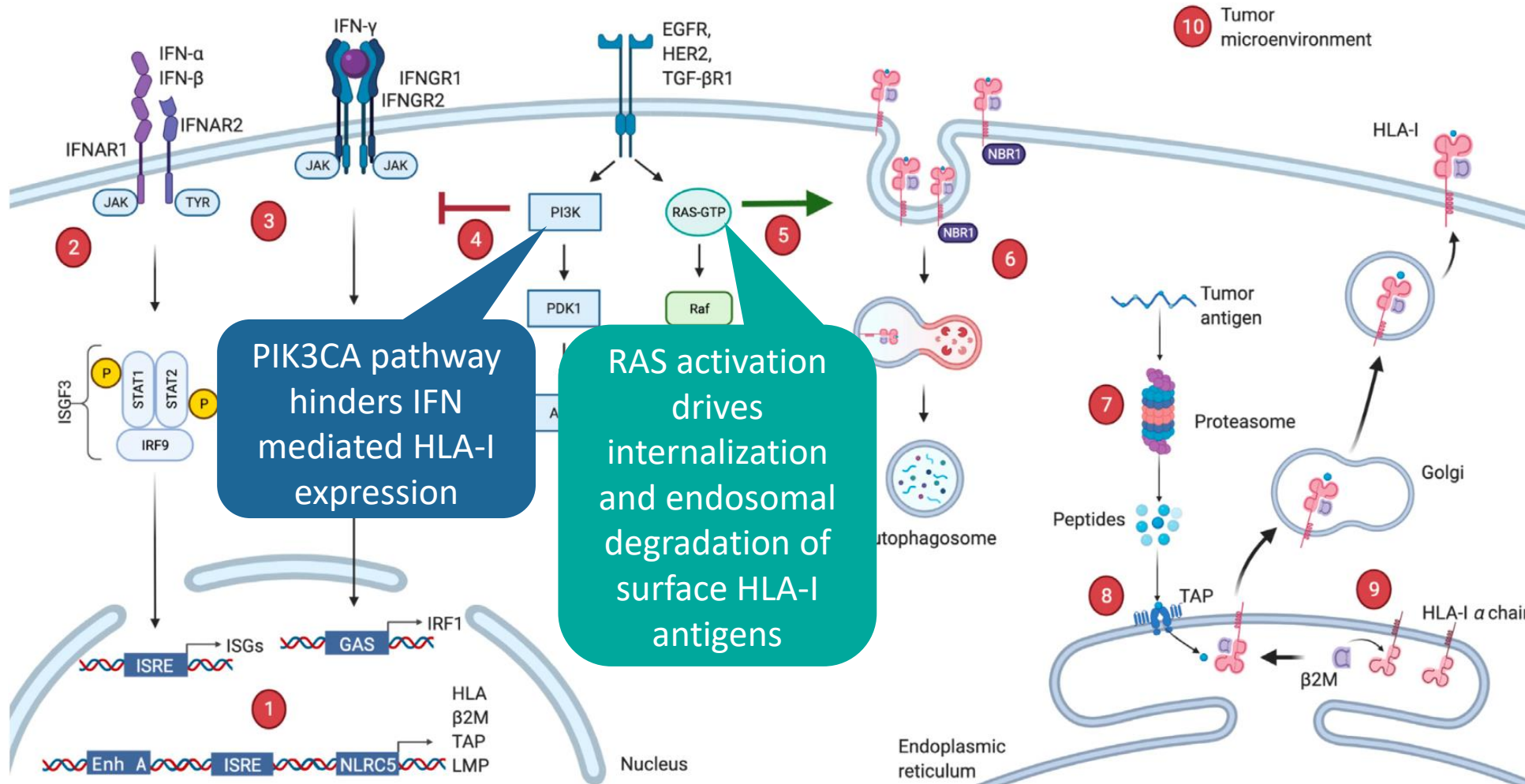


Adapted from Hazini A, et al. *J Immunother Cancer*. 2021;9:e002899.

β 2M = β -2-microglobulin; ER = endoplasmic reticulum; HLA = human leucocyte antigen; IFNAR1 = interferon alpha and beta receptor 1; IL-10 = interleukin 10; ISRE = interferon stimulated response element; RAS = reticular activating system; TAP1 = transporter associated with antigen processing 1; TGF- β = transforming growth factor- β .

Hazini A, et al. *J Immunother Cancer*. 2021;9:e002899.

HLA-I dysregulation and immune resistance

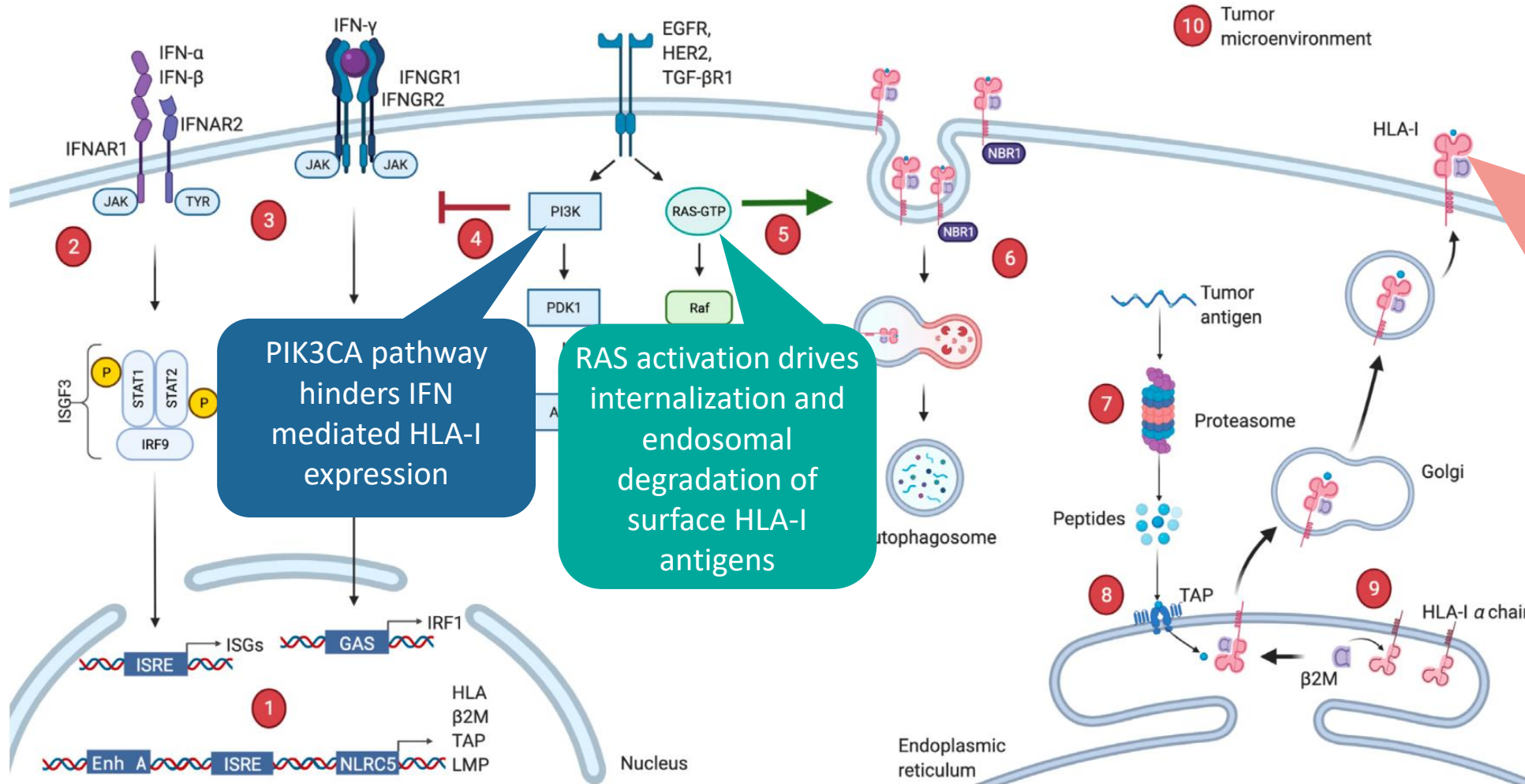


Adapted from Hazini A, et al. *J Immunother Cancer*. 2021;9:e002899.

β 2M = β -2-microglobulin; ER = endoplasmic reticulum; HLA = human leucocyte antigen; IFN = interferon; IFNAR1 = interferon alpha and beta receptor 1; IL-10 = interleukin 10; ISRE = interferon stimulated response element; PIK3CA = phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha; RAS = reticular activating system; TAP1 = transporter associated with antigen processing 1; TGF- β = transforming growth factor- β .

Hazini A, et al. *J Immunother Cancer*. 2021;9:e002899.

HLA-I dysregulation and immune resistance



HLA-I molecules present cellular antigens to T cells, They consist of:

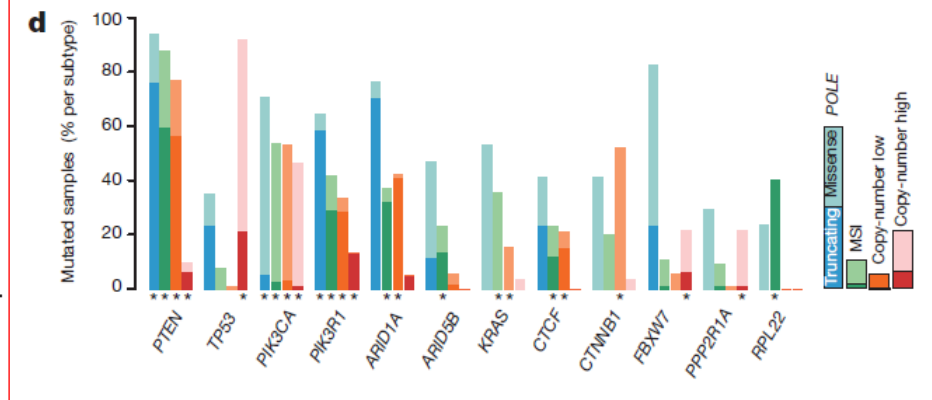
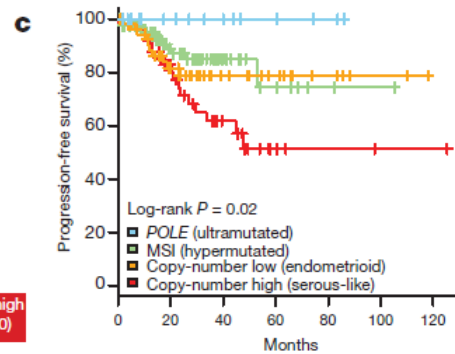
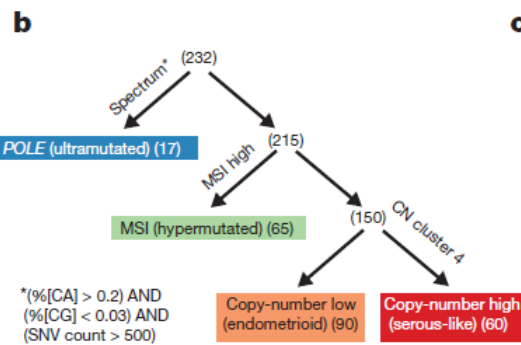
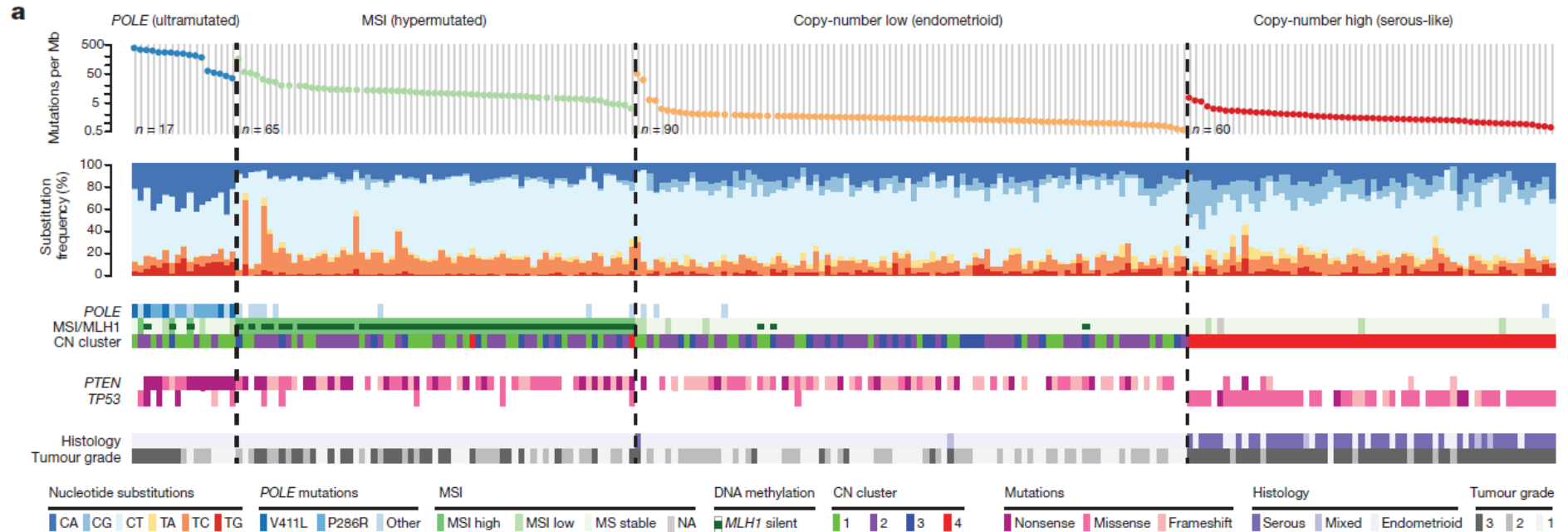
1. Highly polymorphic α -heavy chain encoded by *HLA-A*, *HLA-B*, *HLA-C*
2. Light chain β -2-microglobulin (β 2M) stabilises the HLA-I complex

Adapted from Hazini A, et al. *J Immunother Cancer*. 2021;9:e002899.

β 2M = β -2-microglobulin; ER = endoplasmic reticulum; HLA = human leucocyte antigen; IFNAR1 = interferon alpha and beta receptor 1; IL-10 = interleukin 10; ISRE = interferon stimulated response element; PIK3CA = phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha; RAS = reticular activating system; TAP1 = transporter associated with antigen processing 1; TGF- β = transforming growth factor- β .

Hazini A, et al. *J Immunother Cancer*. 2021;9:e002899.

Histomolecular classification: TCGA

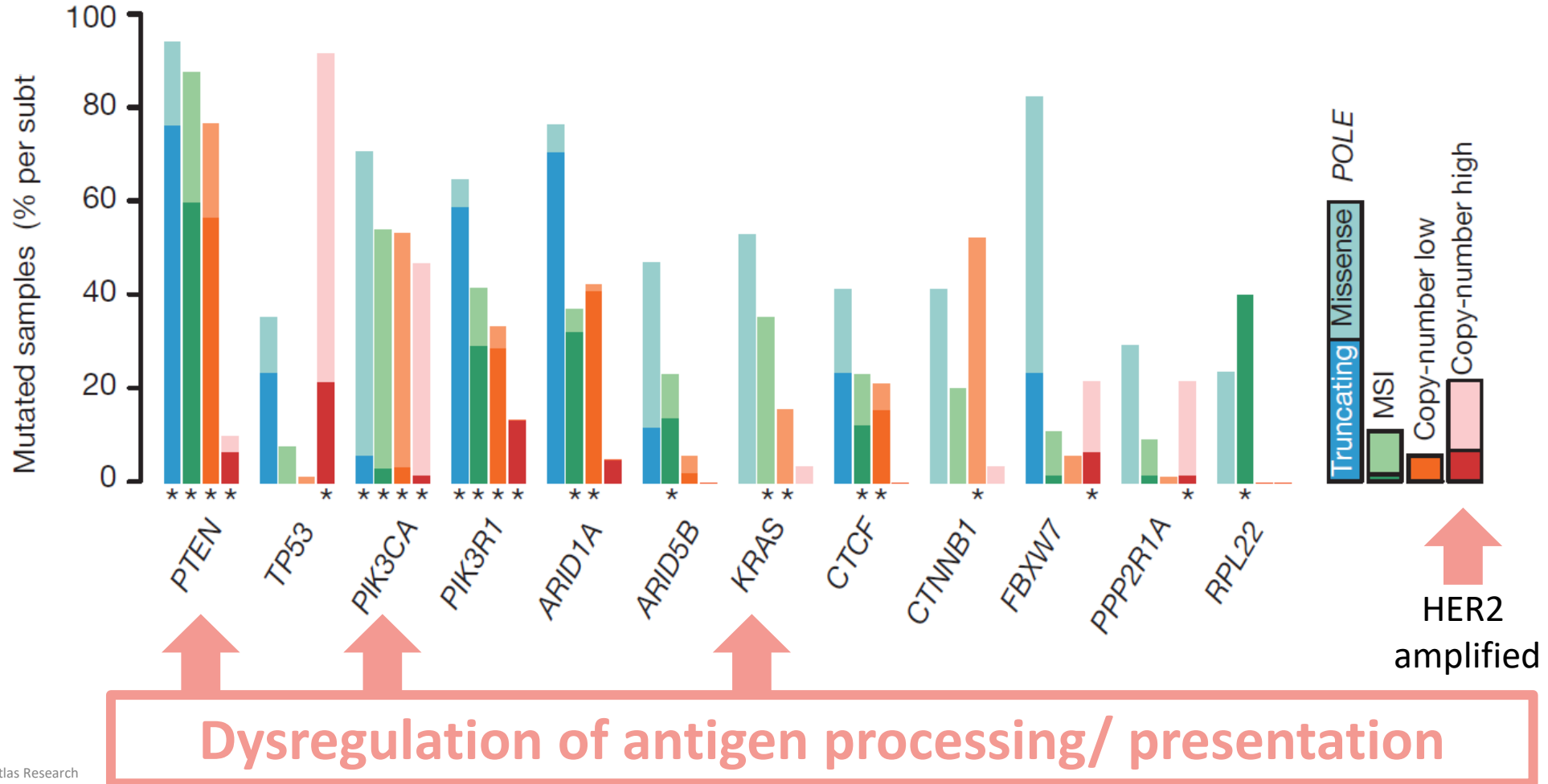


Adapted from Cancer Genome Atlas Research Network, et al. *Nature*. 2013;497:67-73.

CNH = copy-number high; CNL = copy-number low; MLH = mutL homolog; MSI, microsatellite instability; POLE = polymerase ϵ ; TCGA = The Cancer Genome Atlas.

1. Cancer Genome Atlas Research Network, et al. *Nature*. 2013;497:67-73.

Differential mutational frequencies further differentiate the TCGA molecular classifications



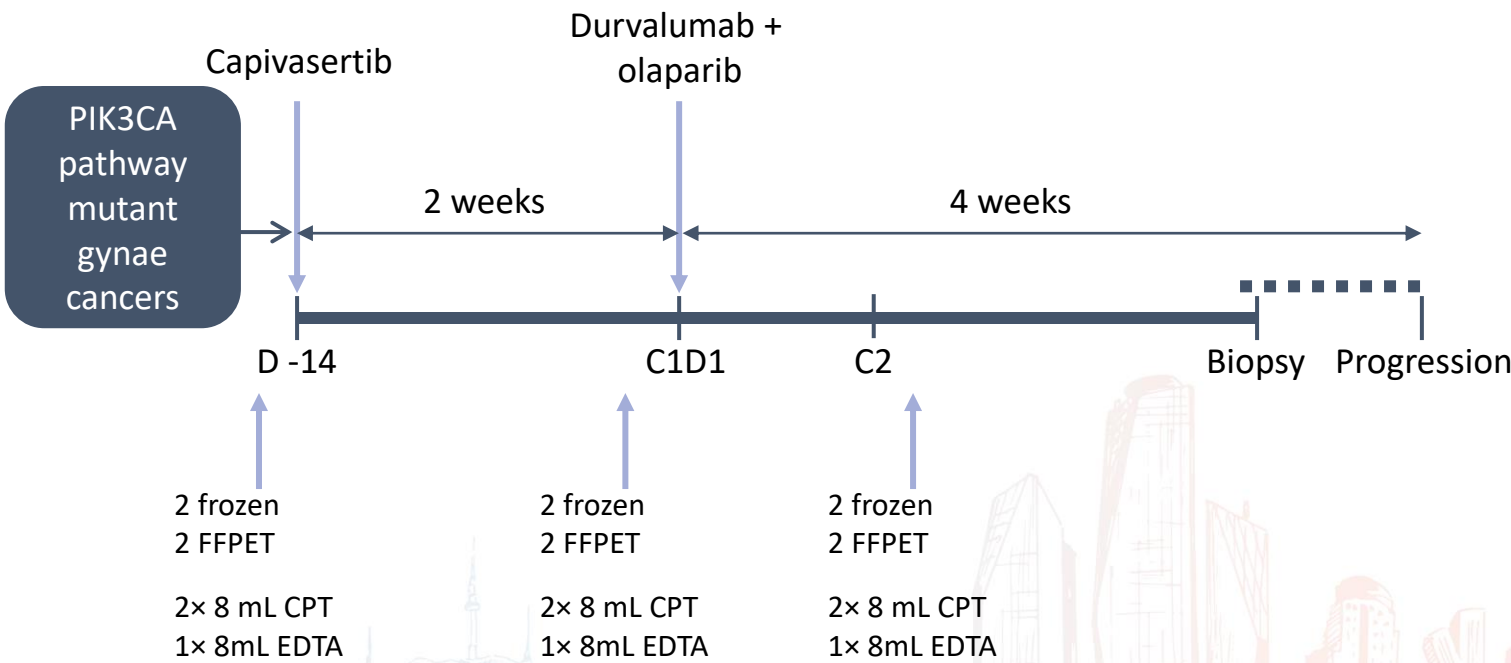
Adapted from Cancer Genome Atlas Research Network, et al. *Nature*. 2013;497:67-73.

HER2 = human epidermal growth factor receptor 2; KRAS = Kirsten rat sarcoma virus; MSI, microsatellite instability; POLE = polymerase ε; PIK3CA = phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha; PTEN = phosphatase and tensin homolog
TCGA = The Cancer Genome Atlas.

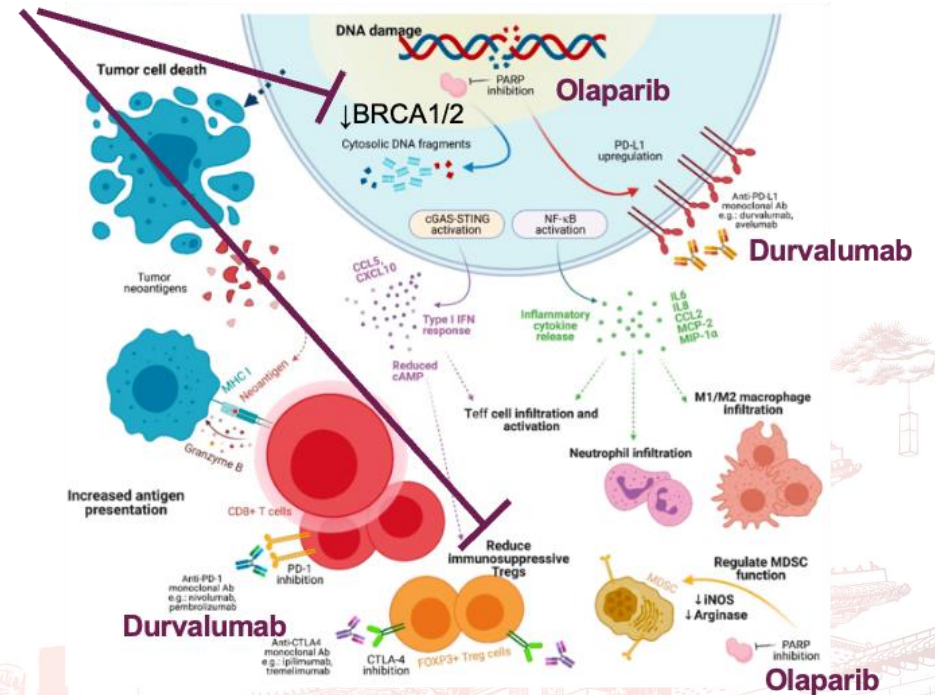
1. Cancer Genome Atlas Research Network, et al. *Nature*. 2013;497:67-73.

MEDIPAC | NCT03772561 | PI: David Tan

Phase I/II study of combined durvalumab, olaparib, and the AKT inhibitor capivasertib (AZD5363) in solid tumors



PI3K pathway inhibition with Capivasertib (AKT inhibitor)



Adapted from Pham MM, et al. *Trends Cancer* 2021;7(10): 958-970.

- The PI3K/AKT pathway \rightarrow tumorigenesis, interacting with DNA damage response and immune regulatory networks^{1,2}
- PI3K pathway inhibition \rightarrow downregulation of BRCA1/2 \rightarrow sensitisation to PARP inhibition³
- PI3K pathway inhibition promotes HLA processing machinery and selectively inhibits Treg cells⁴
- Combination of capivasertib and olaparib tolerable with efficacy signal^{5,6}

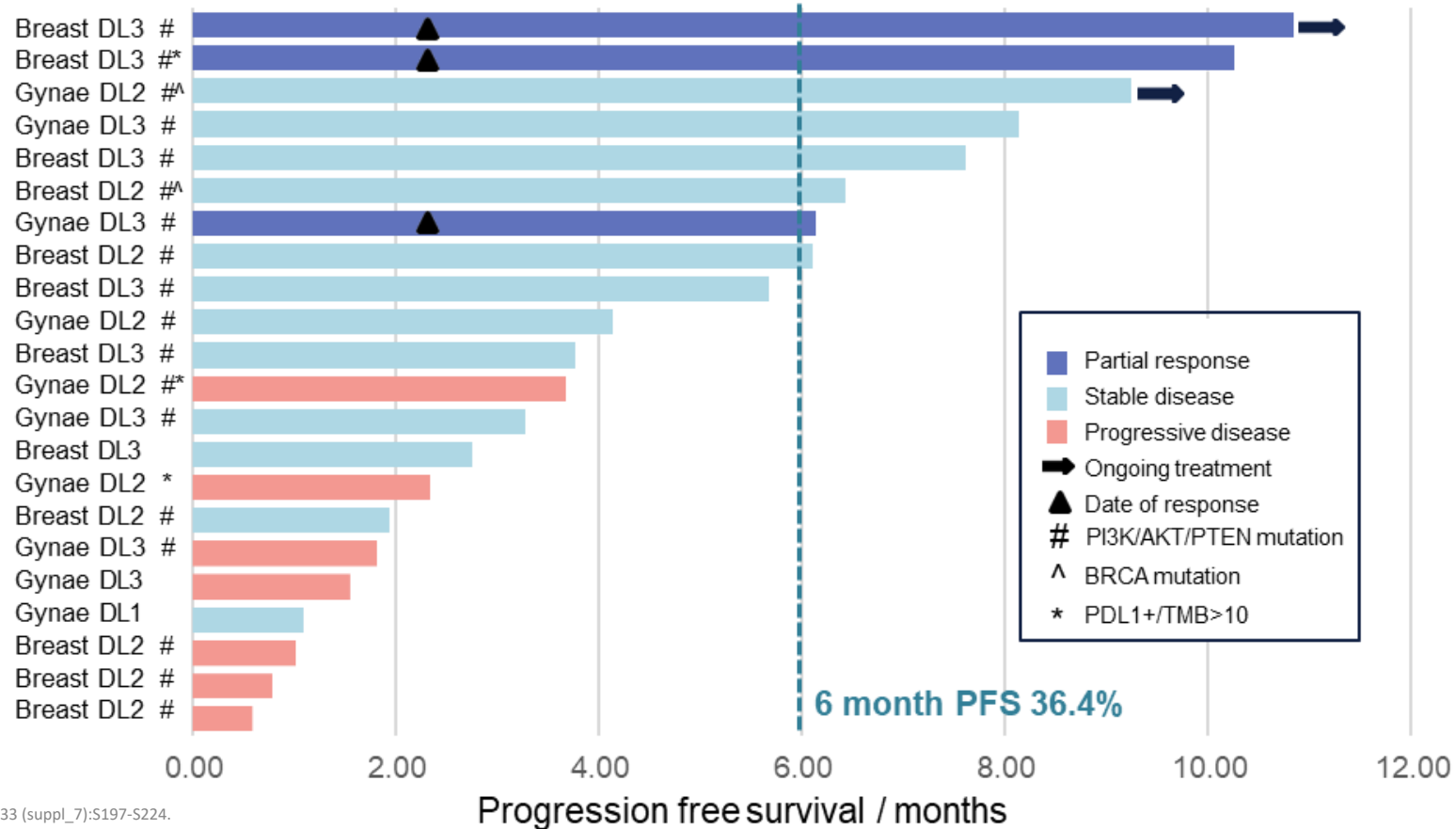
AKT = protein kinase B; BRCA1/2 = BRCA1/2; C = cycle; D = day; FFPE = formalin-fixed paraffin-embedded tissue; PARP = poly (ADP-ribose) polymerases; PI3K = phosphoinositide 3-kinases; PIK3CA = phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha; Treg = regulatory T cell.

1. Yap TA, et al, *CA Cancer J Clin*. 2011;61(1):31-49. 2. Courtney KD et al, *J Clin Onc* 2010;28(6):1075-1083. 3. Juvekar A et al, *Cancer Discov* 2012;2(11):1048-63. 4. Abu-Eid R et al, *Cancer Immunol Res* 2014; 2(11):1080-1089. 5. Yap TA, et al, *Cancer Discov* 2020;10(10):1528-1543. 6. Westin et al, *Ann Onc* 2017;28 (suppl_5):391P. 7. Pham MM, et al. *Trends Cancer* 2021;7(10): 958-970.

Efficacy of durvalumab in combination with olaparib and capivasertib in patients with advanced or metastatic cancers

MEDIPAC | dose expansion

Swimmer's plot of evaluable patients with breast/gynaecological tumors



Dose expansion in PIK3CA/mTOR pathway activated gynae cancers ongoing – recruiting at National University Cancer Institute Singapore, NUH.

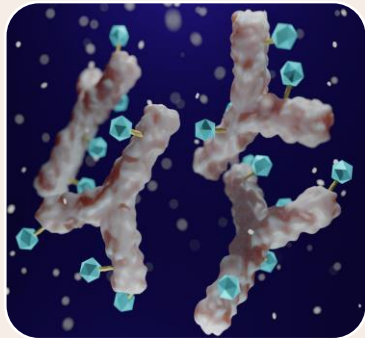
Adapted from Lim J, et al. *Ann Oncol* 2022;33 (suppl_7):S197-S224.

Gynae = gynaecological; PFS = progression-free survival.

Lim J, et al. *Ann Oncol* 2022;33 (suppl_7):S197-S224.

What other targets are being evaluated?

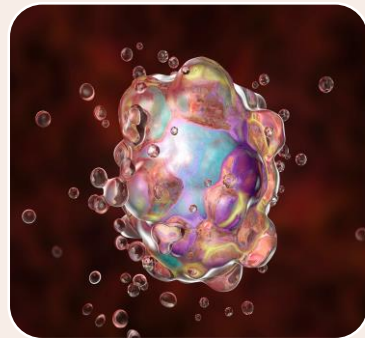
Targeting HER2



**Trastuzumab
deruxtecan:**
DESTINY-PanTumor02
(phase 2)¹
ORR: 57.5%

Trastuzumab ± C/P:
NCT01367002
(phase 2)²
PFS: 12.9 vs 8.0 mo

Kickstarting apoptosis

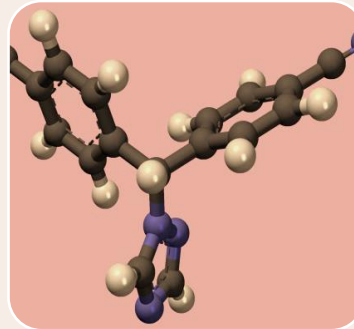


Selinexor:
SIENDO (phase 3)³
PFS: 5.7 vs 3.8 mo

XPORT-EC-042
(phase 3)⁴
TIP

Navtemadlin:
EURUS (phase 2/3)⁵
TIP

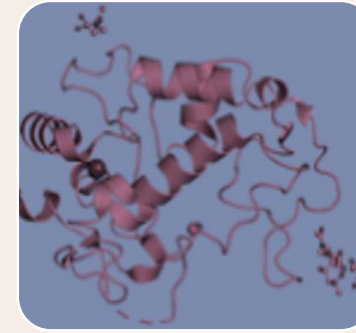
Revisiting endocrine therapy



**Letrozole +
abemaciclib:**
NCT03675893
(phase 2)⁶
ORR: 30%

**Letrozole +
palbociclib:**
PALEO (phase 2)⁷
PFS: 8.3 vs 3.0 mo

FR-α inhibition



**Mirvetuximab
soravtansine +
gemcitabine:**
NCT02996825
(phase 1)⁸
TIP

**Farletuzumab
ecteribulin:**
NCT03386942
(phase 1)^{9,10}
BOR: 1 PR, 2 SD

Inhibiting TROP-2



**Sacituzumab
govitecan:**
NCT04251416
(phase 2)¹¹
PFS: 5.7 mo

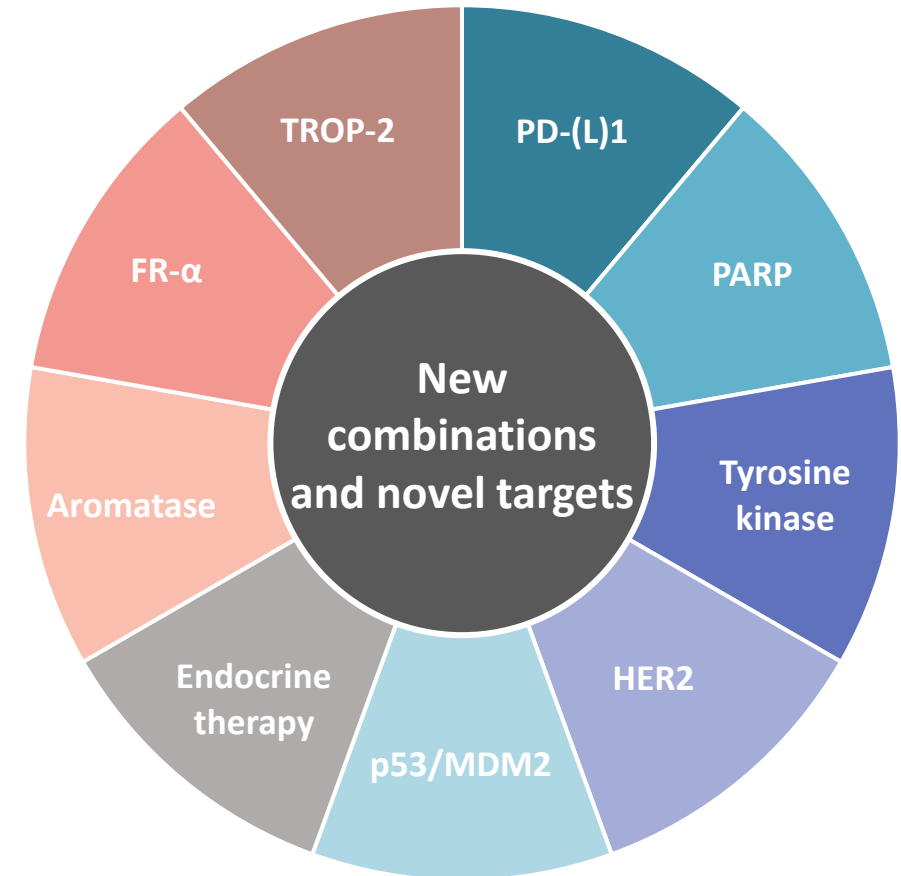
MK-2870:
MK-2870-005-ENGOT-
en23 (phase 3)¹²
TIP

BOR = best overall response; FR-α = folate receptor alpha; HER2 = human epidermal growth factor 2; mo = month; ORR = objective response rate; PFS = progression-free survival; PR = partial response; SD = stable disease; TIP = trial in progress; TROP-2 = Trophoblast cell surface antigen 2.

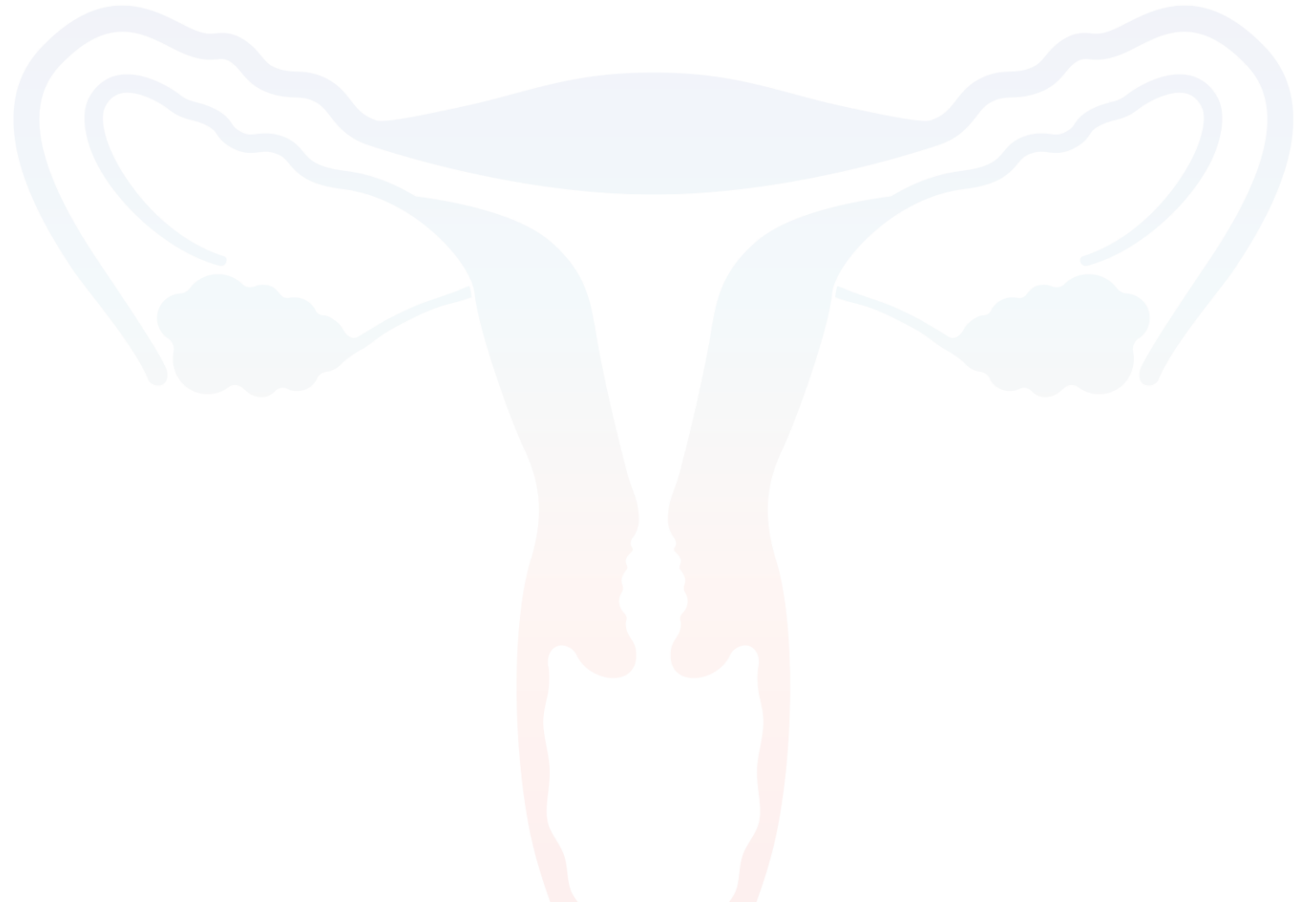
1. Meric-Bernstam F, et al. *J Clin Oncol*. 2023;41(suppl_17):LBA3000. 2. Fader AN, et al. *Clin Cancer Res*. 2020;26:3928-3935. 3. Makker V, et al. *J Clin Oncol*. 2022;40:5511-5511. 4. Vergote IB, et al. *J Clin Oncol*. 2023;41(16_suppl):TPS5627-TPS5627. 5. National Library of Medicine. <https://clinicaltrials.gov/ct2/show/NCT05797831>. Accessed August 23, 2023. 6. Konstantinopoulos PA, et al. *J Clin Oncol*. 2022;41:599-608. 7. Mirza MR, et al. *Ann Oncol*. 2020;31(s4):S1160. 8. National Library of Medicine. <https://clinicaltrials.gov/ct2/show/NCT02996825>. Accessed August 23, 2023. 9. National Library of Medicine. <https://clinicaltrials.gov/ct2/show/NCT03386942>. Accessed August 23, 2023. 10. Shimizu T, et al. *Clin Cancer Res*. 2021;27:3906-3915. 11. Santin A, et al. *J Clin Oncol*. 2023;41(suppl_16):abst 5599. 12. Gynecologic Cancer Intergroup. <https://ecigtrials.org/content/mk-2870-005-engot-en23>. Accessed September 28, 2023.

Conclusions

- DUO-E is the first Phase 3 trial looking at the efficacy of a PARPi (**olaparib**) in combination with an anti-PD-L1 (**durvalumab**) + chemotherapy in advanced/recurrent EC
- DUO-E showed statistically significant PFS improvement of anti-PD-L1 + chemo followed by maintenance anti-PDL-1 ± PARPi vs chemo alone in the ITT population for patients with newly diagnosed advanced or recurrent endometrial cancer
 - Benefit in dMMR is predominantly driven by anti-PD-L1
 - Benefit of PARPi + anti-PD-L1 appears to be mostly limited to the MMRp population
- RUBY Part 2 is also assessing the efficacy and safety of the PARPi **niraparib** in combination with **dostarlimab** + chemotherapy in advanced/recurrent EC
- Clinical trials exploring anti-PD-1 monotherapy in dMMR/MSI-H and combination approaches with TKIs in a broad patient population continue to try to improve treatment options for patients



Panel discussion



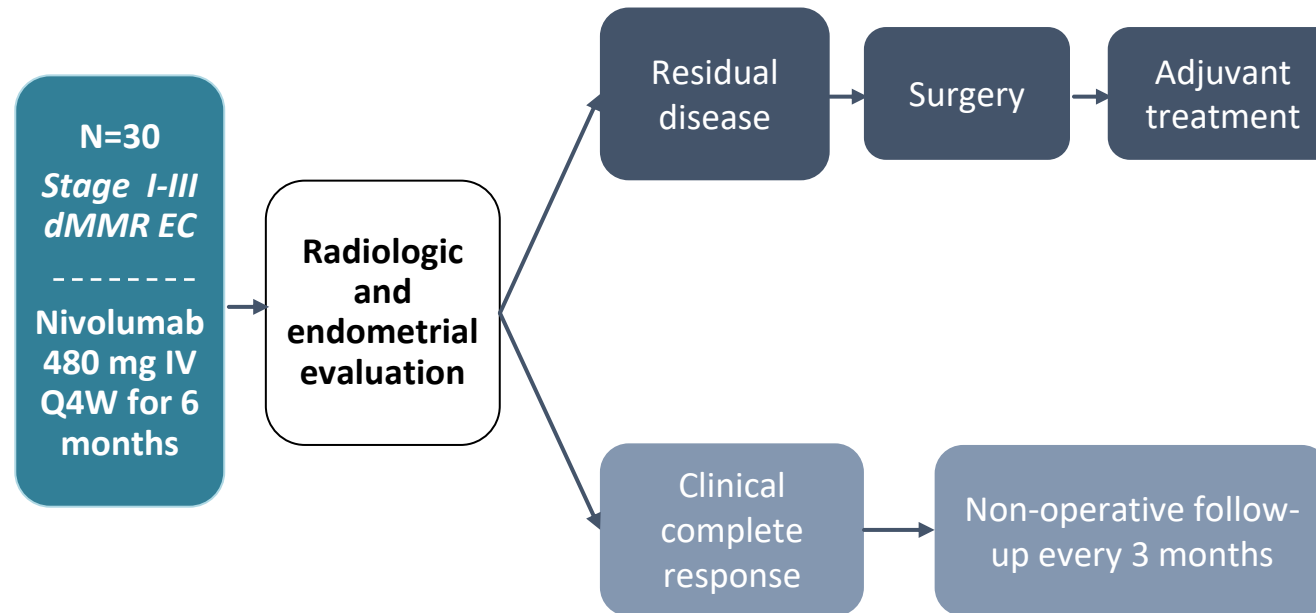
NIVEC | NCT05795244

Phase 2, non-randomized, open-label, study of nivolumab induction in patients with surgically completely resectable dMMR EC

Eligibility criteria

- Histologically- or cytologically-confirmed EC or carcinosarcoma (mixed mullerian tumor)
- Clinical stage: Stage I - IIIC2 and surgically completely resectable
- No evidence of distant metastases
- dMMR or MSI-H subtype
- ECOG PS 0 or 1
- Patients with a life expectancy of at least 3 months

Study design: Simon's two stage minimax design



Primary end point: Complete response rate
Secondary end points: ORR, PFS, OS, toxicity
Exploratory end points: Genomic and immune biomarkers

Start date (estimated): April 2023

Status: Recruiting
Estimated primary completion date: March 2025



DOVE | APGOT-ov7 | ENGOT-ov80

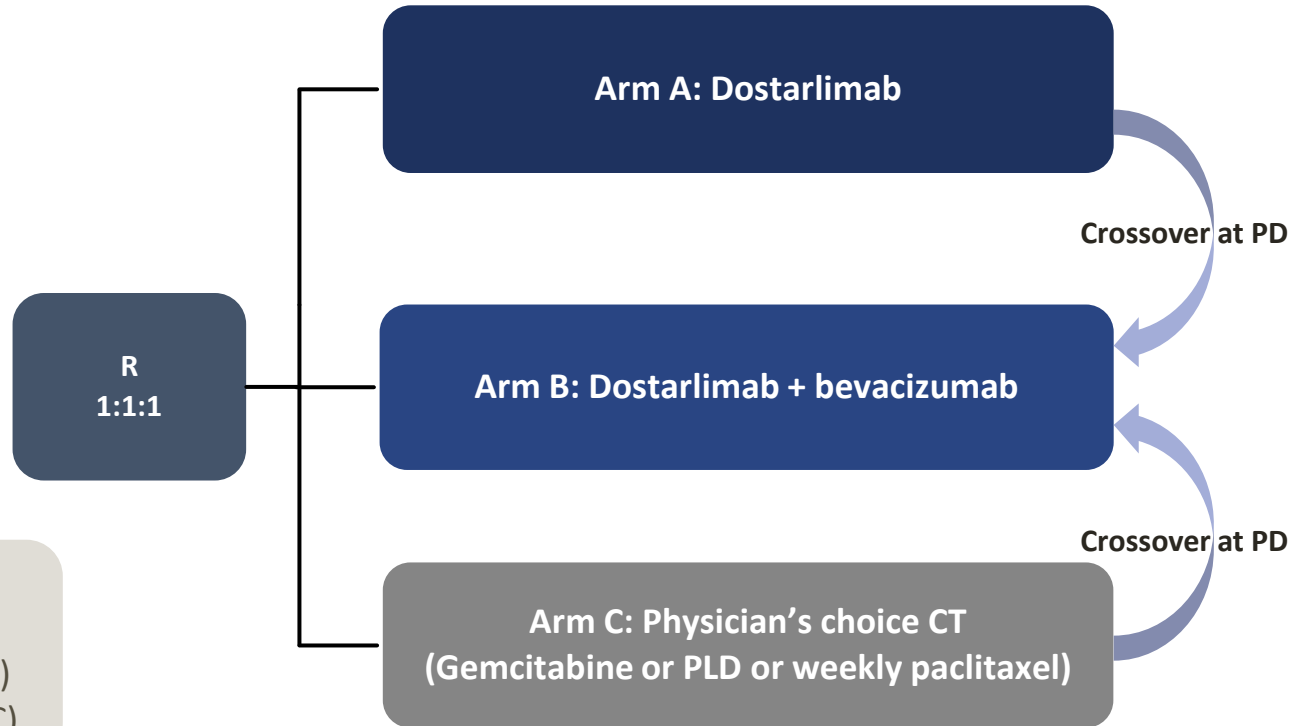
Asia-Pacific Gynecologic Oncology Trials Group clinical trial in recurrent gynecological clear cell carcinoma

Eligible patients:

- Histologically confirmed clear cell carcinoma
- PFI < 12 months
- At least one prior line of platinum-based chemotherapy
- ≤ 5 prior lines of therapy
- No prior ICI use
- Measurable disease
- Mandatory biopsy and/or archival tissues

Stratification:

- Prior bevacizumab use
- Prior lines of therapy (1 or >1)
- Primary origin (OC vs. non-OC)



Primary end point:

Investigator-assessed PFS (RECIST 1.1)

Secondary end points:

ORR, DCR, CBR PFS2, OS, DOR, safety and tolerability

Exploratory end points:

Immune biomarker c matched samples