



STANDARD TREATMENTS AND NEW DIRECTIONS IN GYNAECOLOGICAL CANCERS

MILANO June 26th-29th, 2025

Responsabili Scientifici:
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New Endometrial Cancer Guidelines ESGO/ESTRO/ESP 2025: Medical perspective

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Oncologia Medica

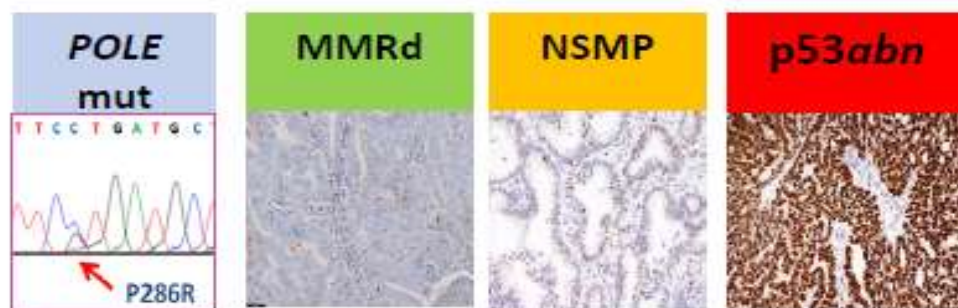
Disclosures

- Consulting/Advisory Board: AstraZeneca, Clovis Oncology, Eisai
- Lecture Fees: AstraZeneca, PharmaMar, GSK
- Travel Grants: AstraZeneca, GSK

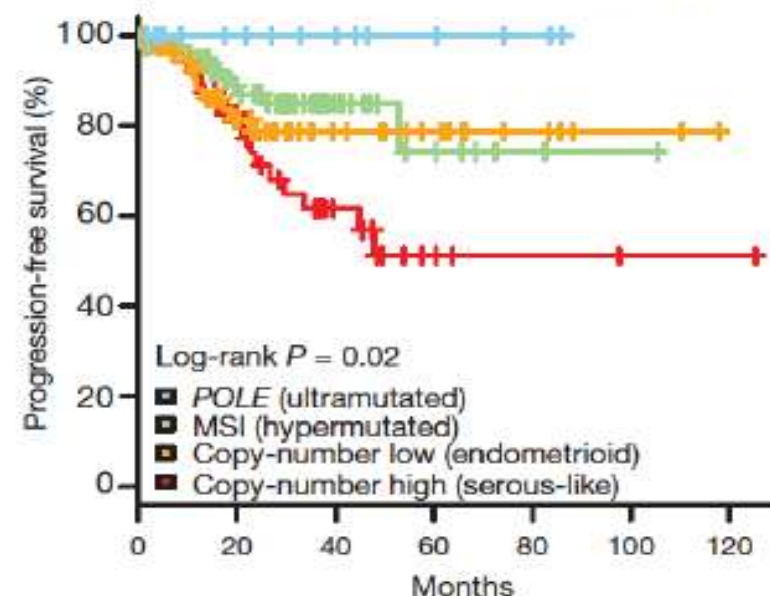


What's new for Adjuvant Setting?

What The Cancer Genome Atlas (TCGA) has taught us.....

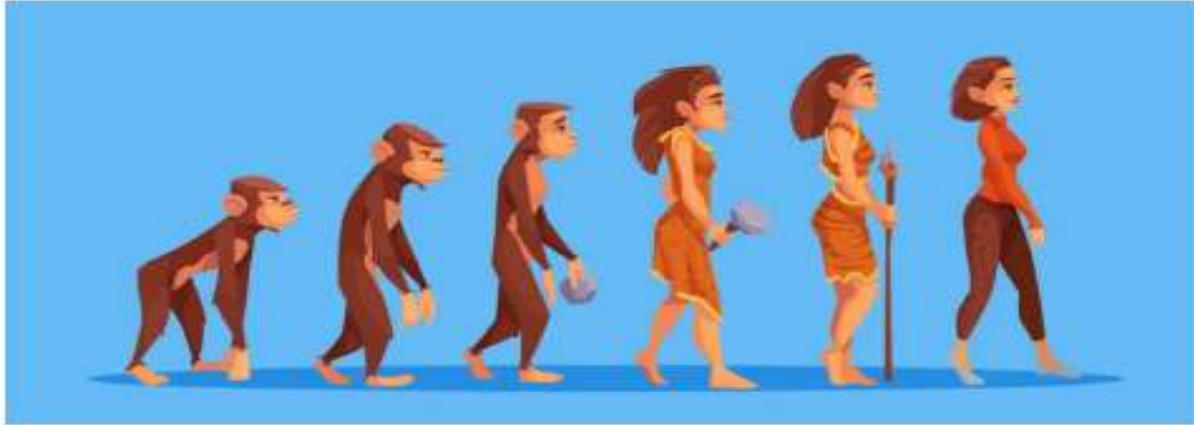


- Immunohistochemistry for **p53** & **mismatch repair proteins**
- DNA sequencing for **POLE** exonuclease domain mutations



Kandoth et al, Nature 2013; Stelloo et al, Clin Cancer Research 2016 ; Talhouk et al, Cancer 2017

Evolution of the Revolution ...



Integration of
TUMOR BIOLOGY
into

FIGO staging system



2023 FIGO staging [†]			Molecular classification [*]				
			POLEmut	MSH4	NSMP low-grade/ERneg	NSMP high-grade/ERneg ^{††}	p53abn
I	Confined to the uterine corpus						
IA	IA1	Low-grade endometrioid, limited to polypoid endometrium (no invasion)	1Am POLEmut			Low	
	IA2	Low-grade endometrioid, myometrium <50%, no focal LVSI	1Am POLEmut			Low	ICcm p53abn
	IA3	Low-grade endometrioid carcinoma of the endometrium & ovary [‡]	1Am POLEmut			Low	ICcm p53abn
		Low-grade endometrioid, myometrium >50%, no focal LVSI	1Am POLEmut			Low	ICcm p53abn
IB		High-grade histologies [§] , limited to polypoid endometrium	1Am POLEmut		n.s.	Low	
II	Confined to the uterus						
IIA		Low-grade endometrioid, invasion of the cervical stroma	1Am POLEmut			Low	ICcm p53abn
IIB		Low-grade endometrioid, substantial LVSI ^{†††}	1Am POLEmut			Low	ICcm p53abn
IIC		High-grade histologies [§] , myoinvasion	1Am POLEmut	Myometrium <50%, no focal LVSI	n.s.		ICcm p53abn
			1Am POLEmut	Myometrium >50%, no focal LVSI			
			1Am POLEmut	Cervical stromal invasion, no focal LVSI			
			1Am POLEmut	Substantial LVSI ^{†††}			
III	Local and/or regional spread						
IIIA	IIIA1	Spread to ovary or fallopian tube (except when meeting stage IA3 criteria)					
	IIIA2	Involvement of uterine subserosa or spread through the ovarian screen					
IIIB	IIIB1	Metastasis or direct spread to the vagina and/or the paracervix					
	IIIB2	Metastasis to the pubic peritoneum					
IIIC	IIIC1	Pelvic lymph node metastasis					
	IIIC2	Micro-metastasis					
	IIIC3	Macro-metastasis					
	IIIC4	Para-aortic lymph node metastasis (up to aortic vessels)					
	IIIC5	Micro-metastasis					
	IIIC6	Macro-metastasis					
IV	Locally advanced and/or metastatic disease						
IVA		Invasion of the bladder and/or the intestinal mucosa					
	Metastatic disease or residual disease after surgery						
IVB/C		Distal recurrent disease					
IVD		Recurrent, metastatic disease and the primary					
IVE		Distant recurrence					

Risk Groups

	Low risk
	Intermediate risk
	High-intermediate risk
	High risk
	Uncertain, lack of data

Green denotes low risk for recurrence; yellow denotes intermediate risk; orange denotes high-intermediate risk and red denotes high risk; grey denotes uncertain risk classification because of lack of data.

[†] 2023 FIGO staging: when molecular classification is known, the FIGO stage should be reported with an annotation of m (for molecular) followed by the specific molecular subtype. There are two specific molecularly defined FIGO stages, namely stage 1Am POLEmut stages I and II disease with a pathogenic POLE mutation and stage IICm p53abn (stages I and II disease with a p53 abnormality and myometrial invasion), (these two molecularly defined FIGO stages are indicated in the table's cells)

^{*}Details on determining the molecular classification, including allocation for double classifiers, are detailed in figure 2 and the webappendix, pp 18-20.

^{††}The molecular subgroup NSMP high-grade/ERneg consists of either high-grade NSMP cases or ERneg NSMP cases. Thus, in FIGO stages referring to low-grade endometrioid carcinomas (i.e. IA1, IA2, IA3, IB, IIA and IIB) only to the ERneg cases of the molecular subgroup NSMP high-grade/ERneg apply.

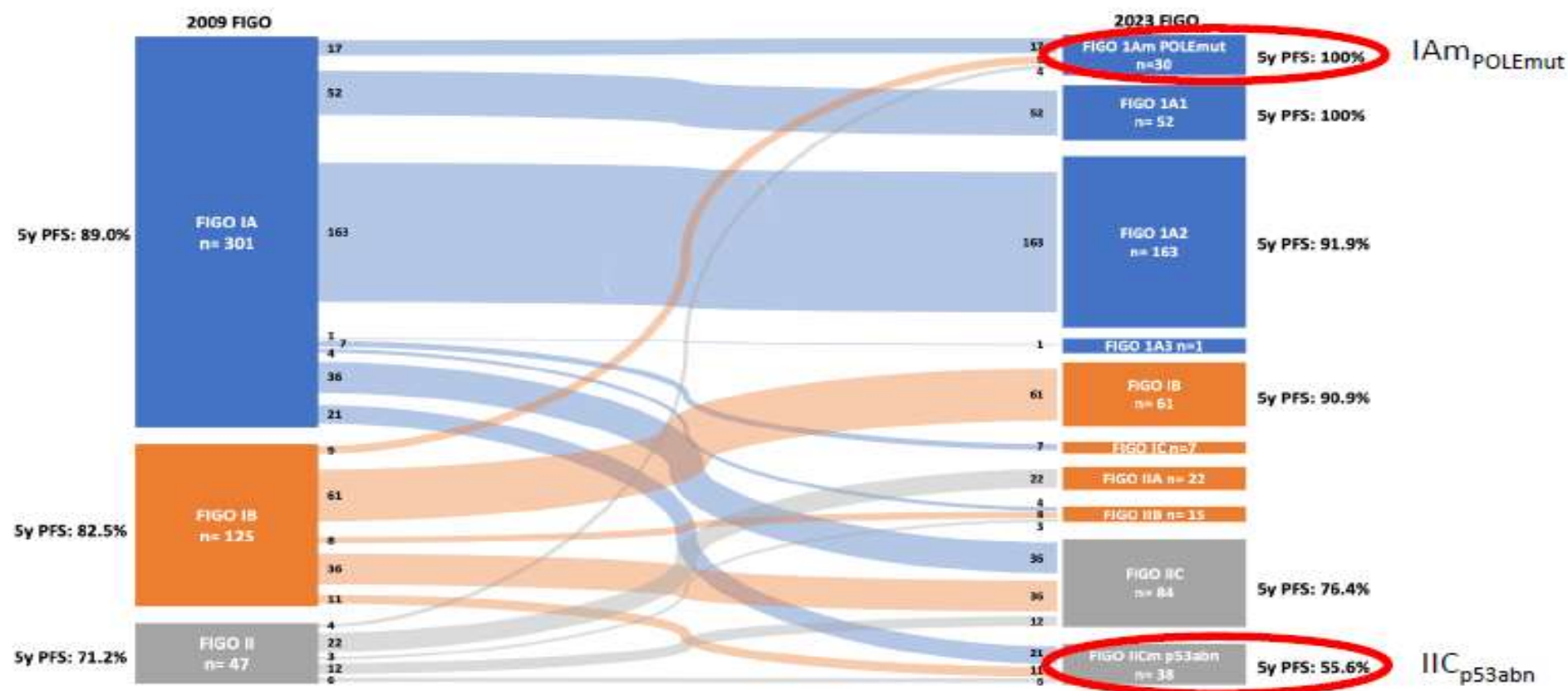
^{†††}Substantial LVSI is defined according to WHO criteria by ≥4 vessels in at least one H&E slide (refer to appendix for information on LVSI, pp 18-20).

[‡] myoinvasion <50% + no focal LVSI + ovarian tumour pT1a

[§]High-grade histologies are the FIGO 2023 aggressive histotypes that include high-grade endometrioid (grade 3), serous, clear cell carcinomas, carcinosarcomas, undifferentiated, mixed, mesenchymal-like, and gastrointestinal mucinous type carcinomas.

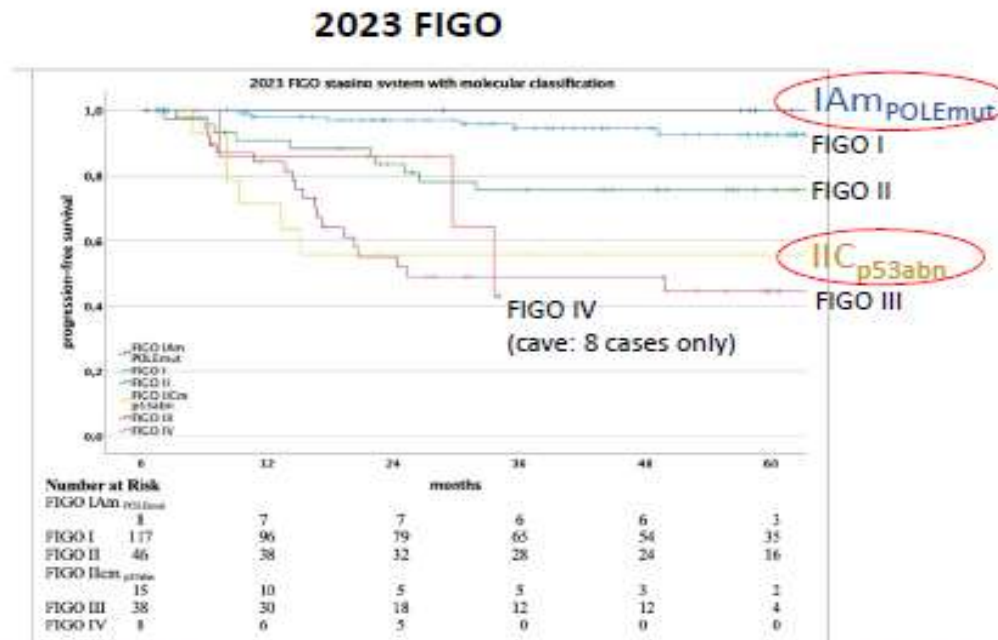
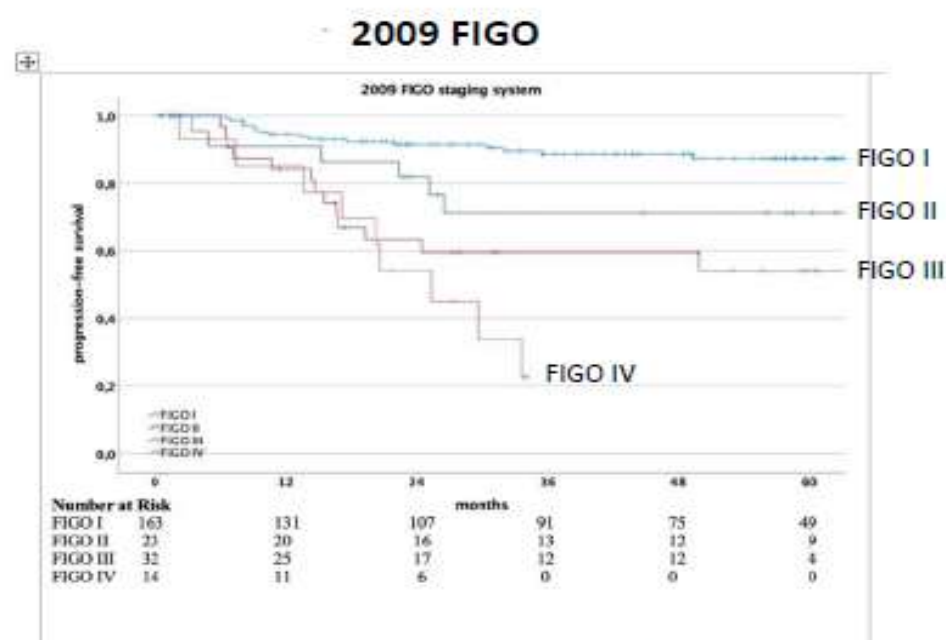
**Verification of the prognostic precision of the new 2023 FIGO staging system
in endometrial cancer patients –
an international pooled analysis of three ESGO accredited centers**

**Stage shifts
between
2009 and
2023 FIGO
in early
stage
endometrial
carcinoma
(stages I/II
N= 473)**



Verification of the prognostic precision of the new 2023 FIGO staging system in endometrial cancer patients – an international pooled analysis of three ESGO accredited centers

Progression-free survival in a study cohort of 232 endometrial cancer patients *according to*



Statistical tests demonstrated superiority of 2023 FIGO staging system compared to 2009 to predict PFS and OS

Schwameis R et al, Eur J Cancer 2023
Editorial by Vergote I & Matias-Guiu X, Eur J Cancer 2023

new molecularly defined FIGO stages

$I\text{Am}_{\text{POLEmut}}$ & $II\text{Cm}_{\text{p53abn}}$

immediate relevance for
treatment-decision making



DEFINITION OF RISK GROUPS

Prognostic risks in the respective groups are defined as estimated overall 5-year risk of recurrence:

- **low risk group:** risk less than 8%;
- **intermediate risk group:** risk between 8 and 15%;
- **high-intermediate risk group:** risk between 15 and 25%;
- **high risk group:** risk higher than 25%.

DEFINITION OF RISK GROUPS

2023 FIGO staging [†]			Molecular classification				
			<i>POLE</i> mut	MMRd	NSMP low-grade+ERpos	NSMP high-grade/ERneg*	p53abn
I	Confined to the uterine corpus						
IA	IA1	Low-grade endometrioid, limited to polyp/endometrium (no myoinvasion)	IAm <i>POLE</i> mut				
	IA2	Low-grade endometrioid, myoinvasion <50%, no/focal LVSI	IAm <i>POLE</i> mut				
	IA3	Low-grade endometrioid carcinoma of the endometrium & ovary#					
IB		Low-grade endometrioid, myoinvasion ≥50%, no/focal LVSI	IAm <i>POLE</i> mut				
IC		High-grade histologies [^] , limited to polyp/endometrium	IAm <i>POLE</i> mut				

Green denotes low risk for recurrence.

[†] 2023 FIGO staging: when molecular classification is known, the FIGO stage should be reported with an annotation of m (for molecular) followed by the specific molecular subtype. There are two specific molecularly defined FIGO stages, namely stage IAm *POLE*mut (stages I and II disease with a pathogenic *POLE* mutation) and stage IICm p53abn (stages I and II disease with a p53 abnormality and myometrial invasion).

*The molecular subgroup NSMP high-grade/ERneg consists of either high-grade NSMP cases or ERneg NSMP cases. Thus, in FIGO stages referring to low-grade endometrioid carcinomas (i.e. IA1, IA2, IA3, IB, IIA and IIB) only to the ERneg cases of the molecular subgroup NSMP high-grade/ERneg apply.

myoinvasion <50% + no/focal LVSI + ovarian tumour pT1a

[^]High-grade histologies are the FIGO 2023 aggressive histotypes that include high-grade endometrioid (grade 3), serous, clear cell carcinomas, carcinosarcomas, undifferentiated, mixed, mesonephric-like, and gastrointestinal mucinous type carcinoma.

DEFINITION OF RISK GROUPS

2023 FIGO staging [†]			Molecular classification				
			<i>POLE</i> mut	MMRd	NSMP low-grade+ERpos	NSMP high-grade/ERneg [*]	p53abn
II	Confined to the uterus						
IIA		Low-grade endometrioid, invasion of the cervical stroma	IaM <i>POLE</i> mut				
IIB		Low-grade endometrioid, substantial LVSI ^{**}	IaM <i>POLE</i> mut				
IIC		High-grade histologies [^] , myoinvasion	IaM <i>POLE</i> mut				

Green denotes low risk for recurrence.

[†] 2023 FIGO staging: when molecular classification is known, the FIGO stage should be reported with an annotation of m (for molecular) followed by the specific molecular subtype. There are two specific molecularly defined FIGO stages, namely stage IaM *POLE*mut (stages I and II disease with a pathogenic *POLE* mutation) and stage IICm p53abn (stages I and II disease with a p53 abnormality and myometrial invasion). These two molecularly defined FIGO stages are indicated in the table's cells.

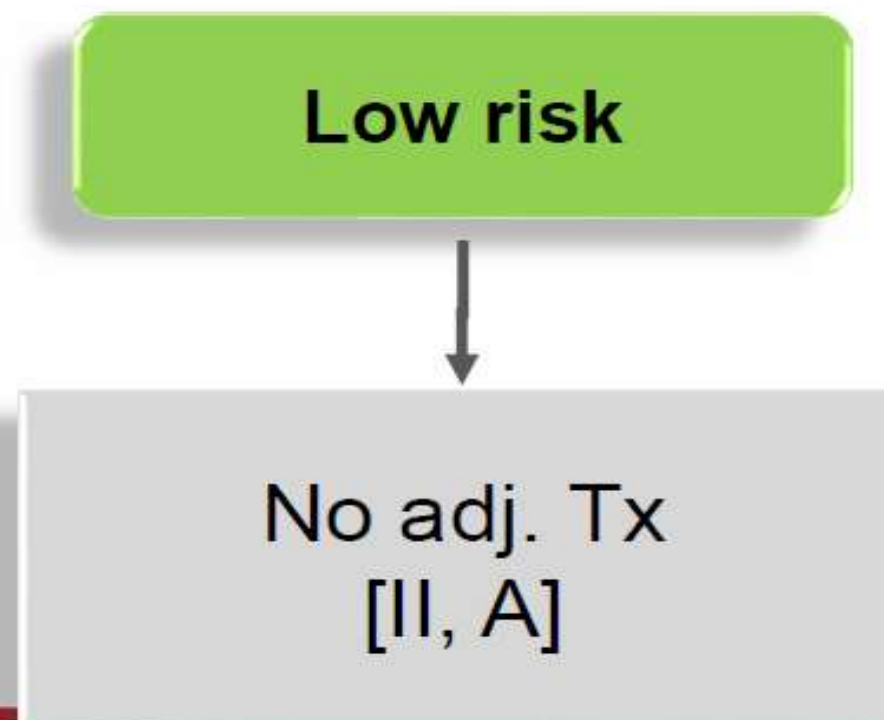
^{*}The molecular subgroup NSMP high-grade/ERneg consists of either high-grade NSMP cases or ERneg NSMP cases. Thus, in FIGO stages referring to *low-grade* endometrioid carcinomas (i.e. IA1, IA2, IA3, IB, IIA and IIB) only to the ERneg cases of the molecular subgroup NSMP high-grade/ERneg apply.

^{**}Substantial LVSI is defined according to WHO criteria in at least one H&E slide.

[^]High-grade histologies are the FIGO 2023 aggressive histotypes that include high-grade endometrioid (grade 3), serous, clear cell carcinomas, carcinosarcomas, undifferentiated, mixed, mesonephric-like, and gastrointestinal mucinous type carcinoma.

ADJUVANT THERAPY LOW RISK

- For patients with low-risk EC: no adjuvant therapy is recommended [II, A].



DEFINITION OF RISK GROUPS

2023 FIGO staging [†]			Molecular classification				
			<i>POLE</i> mut	MMRd	NSMP low-grade+ERpos	NSMP high-grade/ERneg [*]	p53abn
I	Confined to the uterine corpus						
IA	IA1	Low-grade endometrioid, limited to polyp/endometrium (no myoinvasion)	IAm <i>POLE</i> mut			*	
	IA2	Low-grade endometrioid, myoinvasion <50%, no/focal LVSI	IAm <i>POLE</i> mut			*	IIcM p53abn
	IA3	Low-grade endometrioid carcinoma of the endometrium & ovary [#]				*	
IB		Low-grade endometrioid, myoinvasion ≥50%, no/focal LVSI	IAm <i>POLE</i> mut			*	IIcM p53abn
IC		High-grade histologies [^] , limited to polyp/endometrium	IAm <i>POLE</i> mut		n.a.		

Grey denotes uncertain risk classification because of lack of data.

[†] 2023 FIGO staging: when molecular classification is known, the FIGO stage should be reported with an annotation of m (for molecular) followed by the specific molecular subtype. There are two specific molecularly defined FIGO stages, namely stage IAm *POLE*mut (stages I and II disease with a pathogenic *POLE* mutation) and stage IIcM p53abn (stages I and II disease with a p53 abnormality and myometrial invasion). These two molecularly defined FIGO stages are indicated in the table's cells.

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[#] myoinvasion <50% + no/focal LVSI + ovarian tumour pT1a

[^]High-grade histologies are the FIGO 2023 aggressive histotypes that include high-grade endometrioid (grade 3), serous, clear cell carcinomas, carcinosarcomas, undifferentiated, mixed mesonephric-like, and gastrointestinal mucinous type carcinoma.

ADJUVANT THERAPY

FIGO 2023 IA1m NSMP high-grade/ERneg or p53abn & ICm NSMP high-grade/Erneg or p53abn

- There are limited data suggesting that the risk of recurrence is somewhat higher than for low-risk carcinomas. However, adjuvant therapy is generally not recommended [IV, C].

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IA	IA1	Low-grade endometrioid, limited to polyp/endometrium (no myoinvasion)					
	IA2	Low-grade endometrioid, myoinvasion <50%, no/focal LVSI					
	IA3	Low-grade endometrioid carcinoma of the endometrium & ovary#					
IB		Low-grade endometrioid, myoinvasion ≥50%, no/focal LVSI					
IC		High-grade histologies [^] , limited to polyp/endometrium					

Yellow denotes intermediate risk for recurrence.

[†] 2023 FIGO staging: when molecular classification is known, the FIGO stage should be reported with an annotation of m (for molecular) followed by the specific molecular subtype. There are two specific molecularly defined FIGO stages, namely stage IA_m *POLE*mut (stages I and II disease with a pathogenic *POLE* mutation) and stage IC_m p53abn (stages I and II disease with a p53 abnormality and myometrial invasion).

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myoinvasion <50% + no/focal LVSI + ovarian tumour pT1a

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DEFINITION OF RISK GROUPS

2023 FIGO staging [†]			Molecular classification				
			<i>POLE</i> mut	MMRd	NSMP low-grade+ERpos	NSMP high-grade/ERneg*	p53abn
II	Confined to the uterus						
IIA		Low-grade endometrioid, invasion of the cervical stroma					
IIB		Low-grade endometrioid, substantial LVSI**					
IIC		High-grade histologies [^] , myoinvasion		Myoinvasion <50%, no/focal LVSI			
				Myoinvasion ≥50%, no/focal LVSI			

Yellow denotes intermediate risk for recurrence.

[†] 2023 FIGO staging: when molecular classification is known, the FIGO stage should be reported with an annotation of m (for molecular) followed by the specific molecular subtype. There are two specific molecularly defined FIGO stages, namely stage IA_m *POLE*mut (stages I and II disease with a pathogenic *POLE* mutation) and stage IIC_m p53abn (stages I and II disease with a p53 abnormality and myometrial invasion). These two molecularly defined FIGO stages are indicated in the table's cells.

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**Substantial LVSI is defined according to WHO criteria in at least one H&E slide.

[^]High-grade histologies are the FIGO 2023 aggressive histotypes that include high-grade endometrioid (grade 3), serous, clear cell carcinomas, carcinosarcomas, undifferentiated, mixed, mesonephric-like, and gastrointestinal mucinous type carcinoma.

ADJUVANT THERAPY INTERMEDIATE RISK

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Pathology

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Gynaecological Oncology

- For patients with intermediate risk EC: adjuvant vaginal brachytherapy should be considered [I, A].
- No adjuvant therapy is an option [III, C], especially for patients under 60 years of age and/or low grade [II, A]

Intermediate risk

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graph TD; A[Intermediate risk] --> B[VB T [I, A]]; A --> C[No adj. Tx [III, C]]
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The diagram is a flowchart starting with a yellow box labeled 'Intermediate risk'. Two arrows point down from this box to two separate grey boxes. The left grey box contains 'VB T' and '[I, A]'. The right grey box contains 'No adj. Tx' and '[III, C]'. An orange arrow points from the right side of the 'No adj. Tx' box towards the bottom right corner of the slide.

VB T
[I, A]

No adj. Tx
[III, C]

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Concin N et al, accepted Lancet Oncology 2025

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DEFINITION OF RISK GROUPS

2023 FIGO staging [†]			Molecular classification				
			<i>POLE</i> mut	MMRd	NSMP low-grade+ERpos	NSMP high-grade/ERneg*	p53abn
II	Confined to the uterus						
IIA		Low-grade endometrioid, invasion of the cervical stroma					
IIB		Low-grade endometrioid, substantial LVSI**					
IIC		High-grade histologies [^] , myoinvasion					
				Cervical stromal invasion, no/focal LVSI			
				Substantial LVSI*			

Orange denotes high-intermediate risk for recurrence.

[†] 2023 FIGO staging: when molecular classification is known, the FIGO stage should be reported with an annotation of m (for molecular) followed by the specific molecular subtype. There are two specific molecularly defined FIGO stages, namely stage IA_m *POLE*mut (stages I and II disease with a pathogenic *POLE* mutation) and stage IIC_m p53abn (stages I and II disease with a p53 abnormality and myometrial invasion). These two molecularly defined FIGO stages are indicated in the table's cells.

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**Substantial LVSI is defined according to WHO criteria in at least one H&E slide.

[^]High-grade histologies are the FIGO 2023 aggressive histotypes that include high-grade endometrioid (grade 3), serous, clear cell carcinomas, carcinosarcomas, undifferentiated, mixed, mesonephric-like, and gastrointestinal mucinous type carcinoma.

ADJUVANT THERAPY HIGH-INTERMEDIATE RISK

- For patients with high-intermediate-risk EC: adjuvant EBRT is recommended for optimal pelvic control [II, A].
- Vaginal brachytherapy is an alternative option, especially for patients who underwent lymph node staging and are pN0 [II, B].
- No adjuvant therapy can be considered, especially for patients who underwent lymph node staging and are pN0, without substantial LVSI and low-grade disease [IV, B].

High-intermediate risk

Concin N et al,
accepted Lancet Oncology 2025

EBRT
[II, A]

VBT
[II, B]

No adj. Tx
[IV, B]

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- **high risk group:** risk higher than 25%.

DEFINITION OF RISK GROUPS

2023 FIGO staging ^π			Molecular classification				
			<i>POLE</i> mut	MMRd	NSMP low-grade+ERpos	NSMP high-grade/ERneg*	p53abn
I	Confined to the uterine corpus						
IA	IA1	Low-grade endometrioid, limited to polyp/endometrium (no myoinvasion)					
	IA2	Low-grade endometrioid, myoinvasion <50%, no/focal LVSI				*	IIcM p53abn
	IA3	Low-grade endometrioid carcinoma of the endometrium & ovary#				*	
IB		Low-grade endometrioid, myoinvasion ≥50%, no/focal LVSI				*	IIcM p53abn
IC		High-grade histologies [^] , limited to polyp/endometrium					

Red denotes high risk for recurrence.

^π 2023 FIGO staging: when molecular classification is known, the FIGO stage should be reported with an annotation of m (for molecular) followed by the specific molecular subtype. There are two specific molecularly defined FIGO stages, namely stage IA_m *POLE*mut (stages I and II disease with a pathogenic *POLE* mutation) and stage IIc_m p53abn (stages I and II disease with a p53 abnormality and myometrial invasion).

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myoinvasion <50% + no/focal LVSI + ovarian tumour pT1a

[^]High-grade histologies are the FIGO 2023 aggressive histotypes that include high-grade endometrioid (grade 3), serous, clear cell carcinomas, carcinosarcomas, undifferentiated, mixed, mesonephric-like, and gastrointestinal mucinous type carcinoma.

Low	Intermediate	High-Intermediate	High	Uncertain
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		Molecular classification*				
		<i>POLE</i> mut	MMRd	NSMP low-grade+ERpos	NSMP high-grade/ERneg**	p53abn
Local and/or regional spread beyond uterus						
	Spread to ovary or fallopian tube (except for #)	IIIA1	IIIA1	IIIA1	IIIA1	IIIA1
	Involvement of uterine subserosa or spread through the uterine serosa	IIIA2	IIIA2	IIIA2	IIIA2	IIIA2
	Metastasis or direct spread to the vagina and/or the parametrium	IIIB	IIIB	IIIB	IIIB	IIIB
	Metastasis to the pelvic peritoneum	IIIB2	IIIB2	IIIB2	IIIB2	IIIB2
	Metastasis to the pelvic lymph nodes	IIIC1	IIIC1	IIIC1	IIIC1	IIIC1
	Metastasis to the para-aortic lymph nodes	IIIC2	IIIC2	IIIC2	IIIC2	IIIC2
Locally advanced						
	Invasion of bladder mucosa and/or intestinal mucosa	IVA	IVA	IVA	IVA	IVA
Low-grade endometrioid carcinoma of both the endometrium + ovary #						
	Myoinvasive <50%, no/focal LVSI, ovarian tumour pT1a	IA3	IA3	IA3	IA3**	IA3

ADJUVANT THERAPY HIGH RISK

ESTRO

 European
Society of
Pathology

 **ESGO**
European Society of
Gynaecological Oncology

- For patients with high risk EC: EBRT with concurrent and adjuvant chemotherapy [I, A].
- or alternatively sequential chemotherapy and radiotherapy are recommended [I, B].
- Chemotherapy \pm brachytherapy is an alternative option [I, B].
- For patients with FIGO 2023 stage IIIm-IVAm MMRd EC, adjuvant chemotherapy combined with an ICI (\pm EBRT) should be considered [II, B].

High risk

EBRT + CT
(concurrent and adjuvant
CT [I, A] or sequential CT
[I, B])

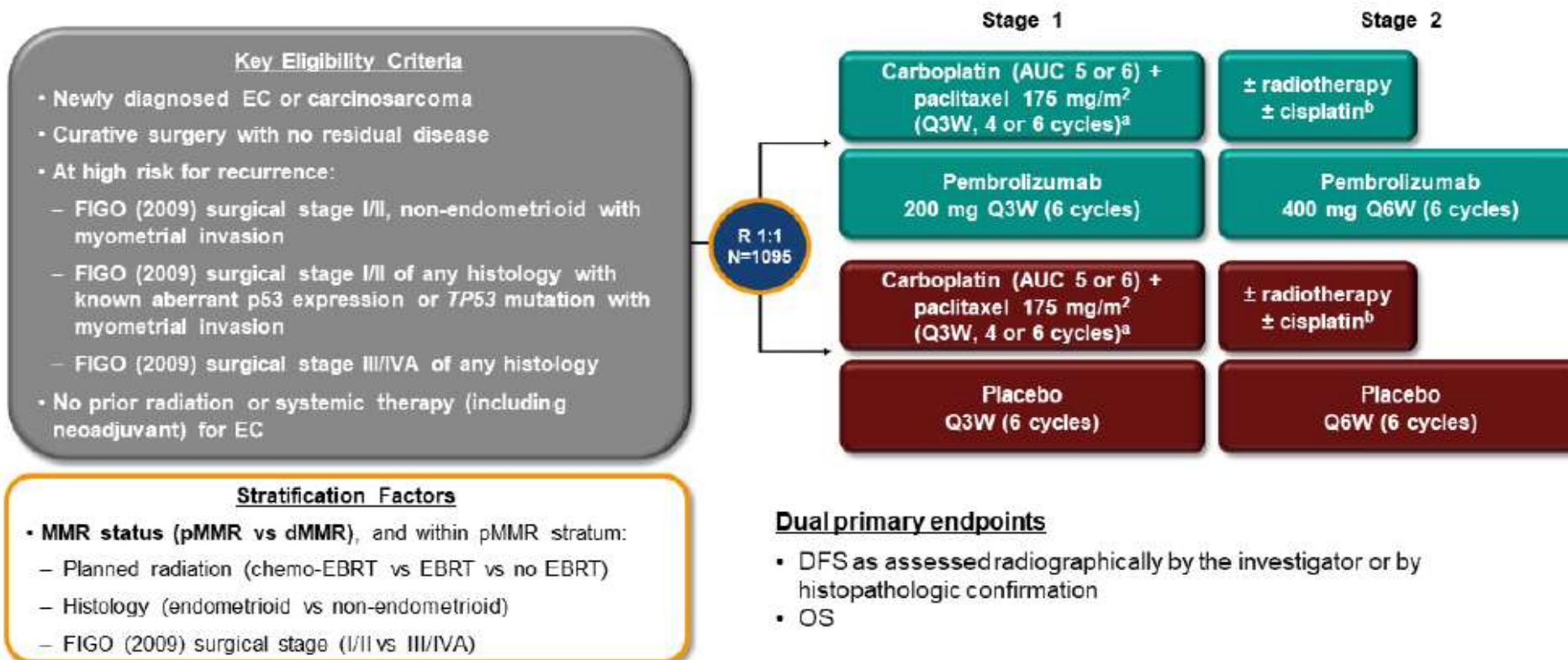
CT \pm VBT
[I, B]

Stage III and IVA
MMRd:
CT+ ICI (\pm EBRT)
[II, B]

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Concin N et al, accepted Lancet Oncology 2025

ENGOT-EN11/GOG-3053/KEYNOTE-B21 Study Design



^aChemotherapy was administered for 4 cycles in patients planned to receive chemoradiotherapy and 6 cycles for all other patients, including those planned for radiotherapy without radiosensitizing cisplatin.

^bRadiotherapy was optional at the discretion of the investigator, and cisplatin may have been given with EBRT as radiosensitizer; radiotherapy was started within 6 weeks after completion of carboplatin and paclitaxel (radiation may have been initiated during Stage 1 or Stage 2 depending on the number of cycles of chemotherapy that were administered).

T. Van Gorp et al. Annals of Oncology, 2024

ADJUVANT THERAPY

FIGO 2023 STAGES IIImPOLE_{mut} and IVAm POLE_{mut}

- This part includes the following categories:
 - FIGO 2023 stages IIImPOLE_{mut}
 - FIGO 2023 stage IVAm POLE_{mut}

ADJUVANT THERAPY

FIGO 2023 STAGES IIImPOLE_{mut} and IVAm POLE_{mut}

- For patients with FIGO 2023 stage IIIm *POLE*_{mut} and IVAm *POLE*_{mut} (prognostic risk group allocation is unclear) due to limited number of patients no firm treatment recommendations can be given, however, following a case-by-case multidisciplinary team discussion, de-escalation from high-risk treatment can be considered [IV, B].

KEY CHANGES

EARLY stage disease: stage I/II

- degree of **LVSI** (no/focal vs substantial)
- **histological subtypes and grading**
(low-grade endometrioid vs high-grade (aggressive) histological types)
- **Molecular classification**, *if available*

ADVANCED stage disease: stage I/II

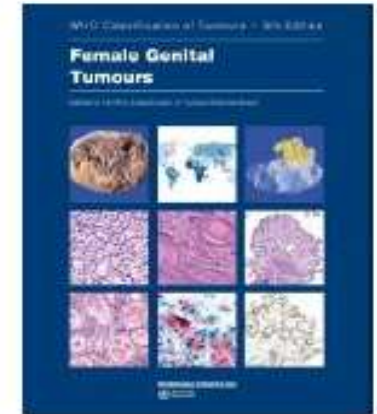
- **Metastatic spread to the ovary**: Distinction of **low-grade endometrioid carcinoma involving the endometrium and the ovary**
- Refinement of **lymph node metastasis** (*micro- vs macrometastasis*)
- New evaluation of **peritoneal carcinomatosis**

lymph vascular space invasion = LVSI

WHO definition

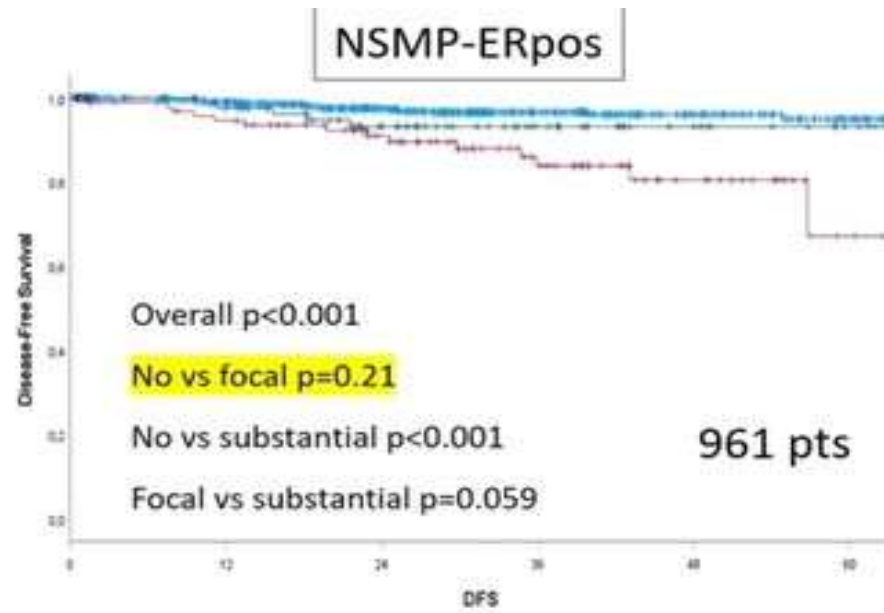
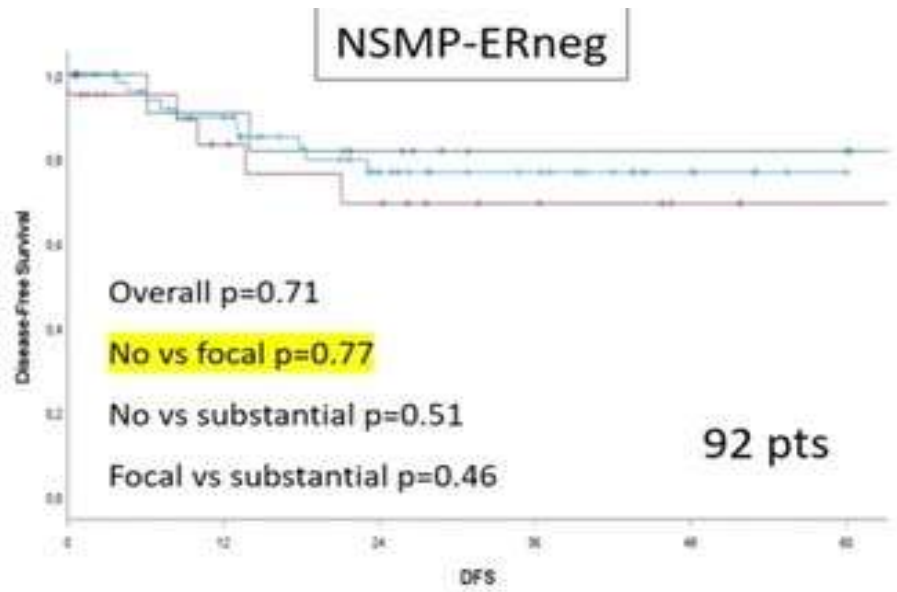
Extent of LVSI is important

- **Focal** LVSI is defined by the presence of a **single focus** around the tumor
- **Substantial** LVSI as **multifocal** or **diffuse** arrangement of LVSI or the presence of tumor cells ≥ 5 **lymphovascular spaces**.

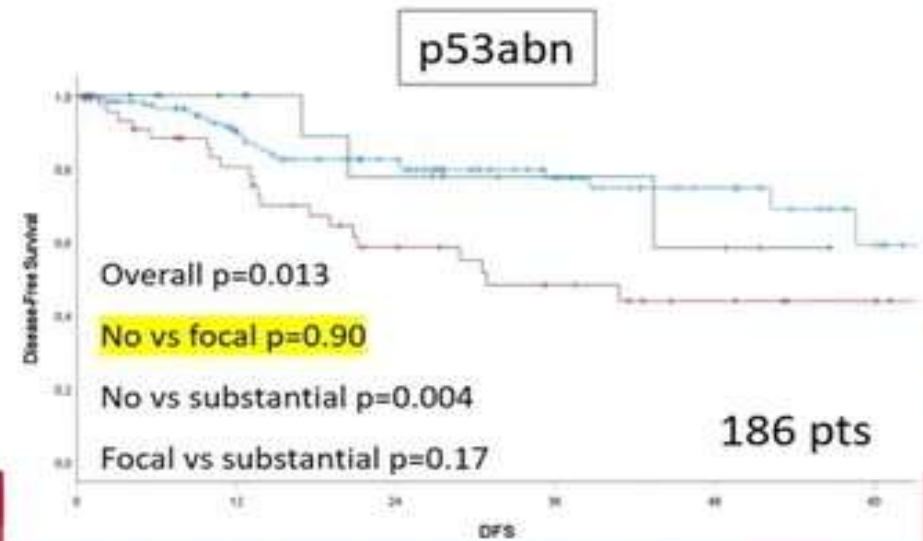
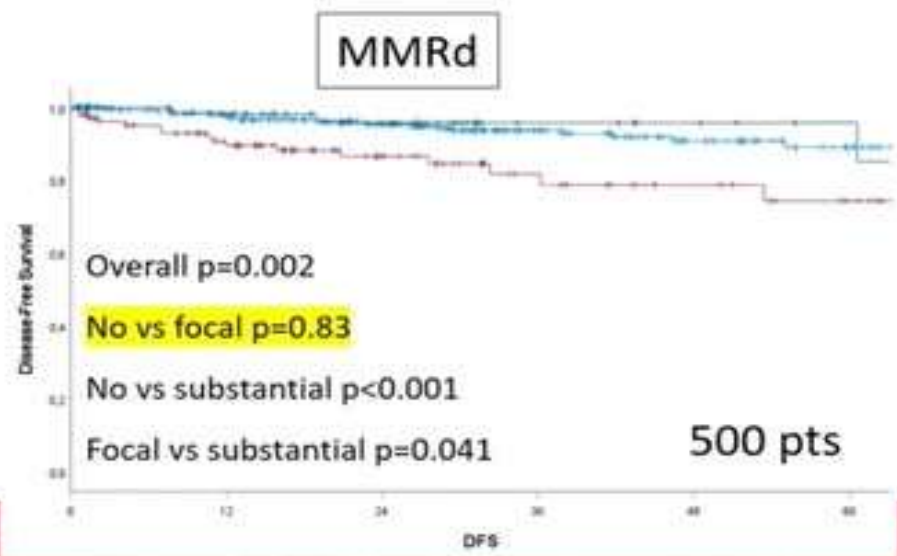


ESGO-ESTRO-ECP consensus guideline on LVSI

- Substantial LVSI is robust and shows consistent prognostic results, supporting the continues use as critical risk factor.
- Studying optimal threshold for altering clinical management remains complex, but **most current studies recommend 4 vessels**.
- Data on focal LVSI are not consistent (for understandable reasons). Present data insufficient to recommend differential treatment based on focal LVSI. <parallel with ITC discussion; report it, but don't act on>
- Prospective data on focal LVSI are eagerly awaited, ideally in the setting of molecularly classified stage I EC (**PORTEC4a**)



LVSI negative
 LVSI focal
 LVSI substantial



KEY CHANGES

EARLY stage disease: stage I/II

- degree of **LVSI** (no/focal vs substantial)
- **histological subtypes and grading**
(low-grade endometrioid vs aggressive histological types)
- **Molecular classification**, *if available*

ADVANCED stage disease

- **Metastatic spread to the ovary: Distinction of low-grade endometrioid carcinoma involving the endometrium and the ovary**
- Refinement of **lymph node metastasis** (*micro- vs macrometastasis*)
- New evaluation of **peritoneal carcinomatosis**

low-grade endometrioid carcinoma involving the endometrium & the ovary (“synchronous tumors”)

molecular analysis: most of them are clonal (metastatic)

GOOD PROGNOSIS

✓ When all the following criteria need to be met:

according to WHO:

- (1) no more than **superficial myometrial invasion** is present (<50%)
- (2) the **absence of substantial LVSI**
- (3) the absence of additional metastases

according to ESGO-ESTO-ESP Guidelines, in addition

- (4) unilateral **ovarian tumors**, limited to the ovary, without capsule invasion/rupture (equivalent to **pT1a**)

KEY CHANGES

EARLY stage disease: stage I/II

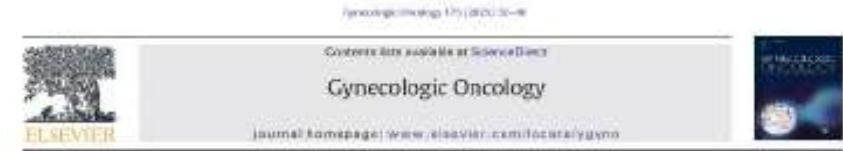
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ADVANCED stage disease: stage I/II

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- New evaluation of **peritoneal carcinomatosis**

Application of FIGO 2023 staging criteria to patients with „previous FIGO 2009 IVB“ EC

2009 FIGO IVB, n=88, Ohio State University Wexner Medical Center



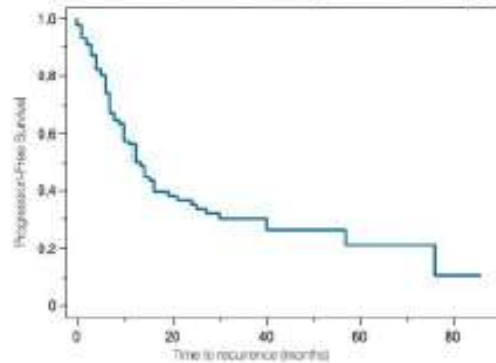
The right time for change: A report on the heterogeneity of IVB endometrial cancer and improved risk-stratification provided by new 2023 FIGO staging criteria

Paulina J. Haight*, Courtney J. Riedinger, Floor J. Backes, David M. O'Malley, Casey M. Cosgrove

Division of Gynecologic Oncology, Department of Obstetrics and Gynecology, The Ohio State University Wexner Medical Center, The James Cancer Hospital and Solove Research Institute, Ohio State University

PFS stage IVB FIGO 2009

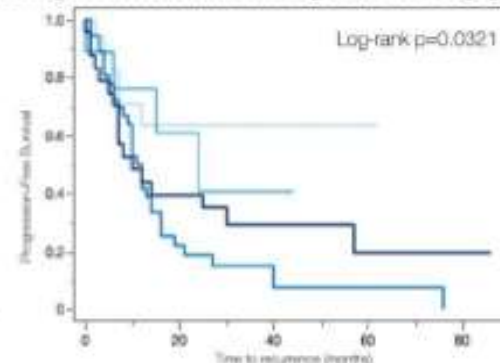
A. Progression-Free Survival according to FIGO 2009 staging



Months	0	20	40	60	80
No. at risk	88	28	8	5	2

PFS same cohort FIGO 2023

B. Progression-Free Survival according to FIGO 2023 staging



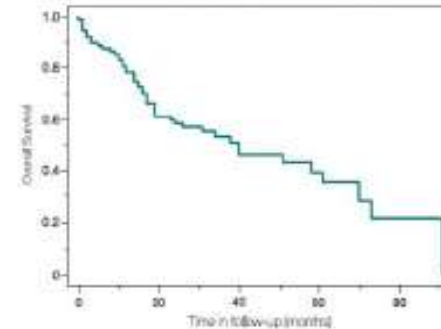
Months	0	20	40	60	80
No. at risk	88	28	8	5	2

Conclusion: The 2023 FIGO staging criteria significantly improves our ability to risk-stratify patients.

Haight et al, Gynecol Oncol 2023 Sept

OS stage IVB FIGO 2009

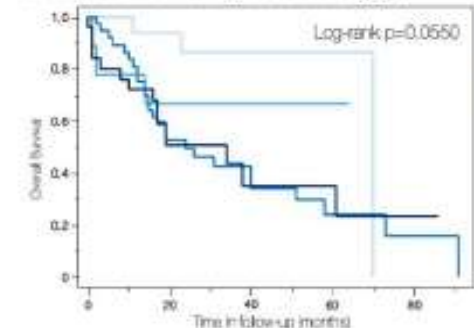
C. Overall Survival according to FIGO 2009 staging



Months	0	20	40	60	80
No. at risk	88	48	21	11	3

OS same cohort FIGO 2023

D. Overall Survival according to FIGO 2023 staging

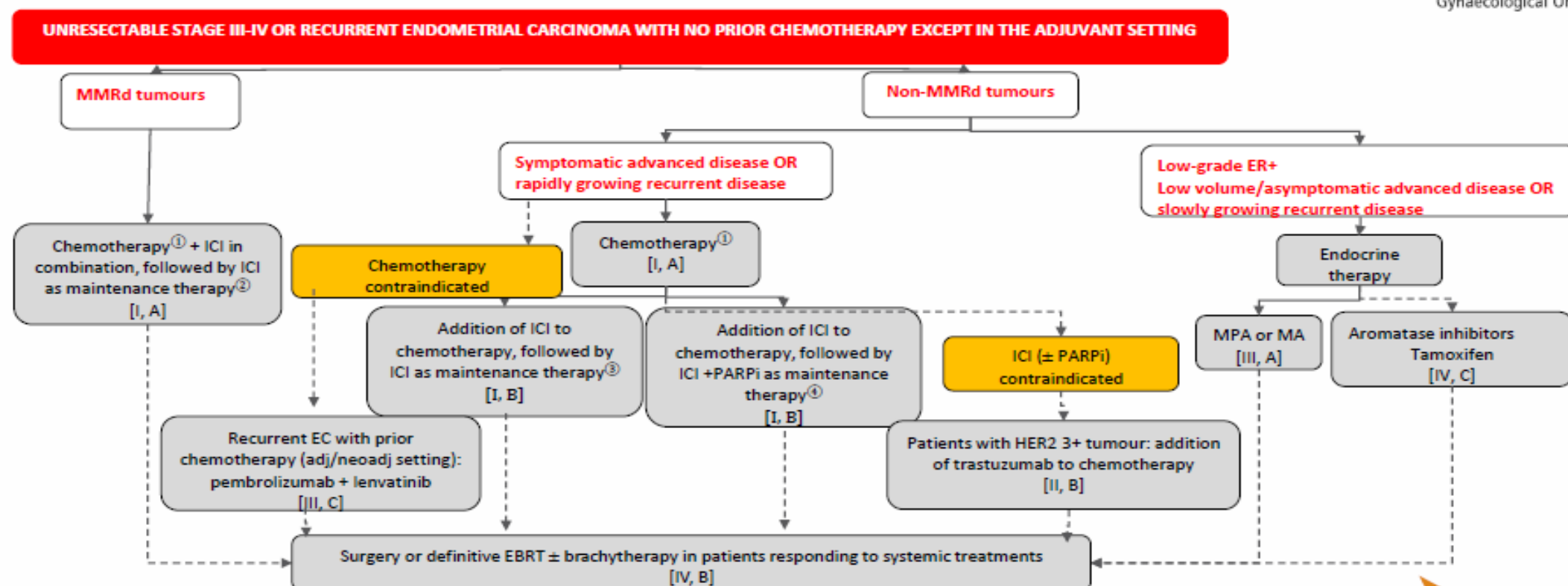


Months	0	20	40	60	80
No. at risk	88	48	21	11	3



What's new for Advanced/Recurrent Setting?

First line systemic therapy in unresectable stage III-IV or recurrent endometrial carcinoma with no prior chemotherapy except in the adjuvant setting (including patients with residual disease after surgery)



① The standard chemotherapy regimen is carboplatin + paclitaxel.

② Immune checkpoint inhibitor (ICI): dostarlimab or durvalumab or pembrolizumab (drugs in alphabetical order).

③ ICI: dostarlimab or pembrolizumab.

④ ICI + poly(ADP-ribose) polymerase inhibitor (PARPi): durvalumab + olaparib.

Adj/neoadj adjuvant/neoadjuvant; EBRT external beam radiotherapy; ER+ estrogen receptor positive; MA megestrol acetate; MMRd mismatch repair deficiency, MPA medroxyprogesterone acetate; non-MMRd non-mismatch repair deficiency; NSMP non-specific molecular profile.

www.esgo.org

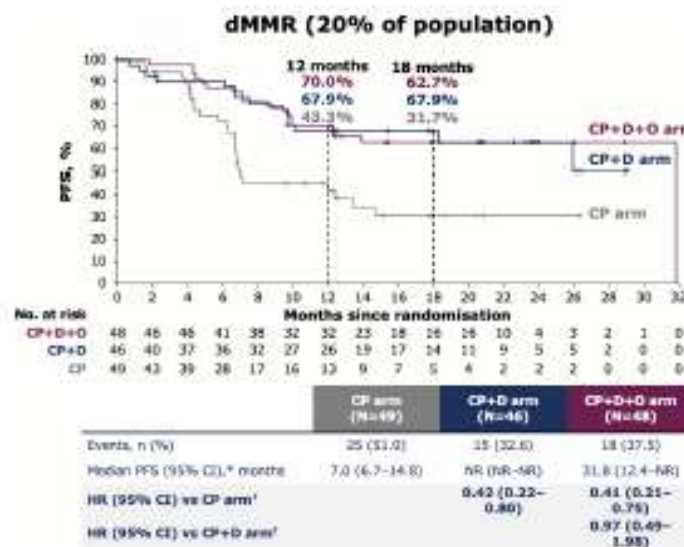
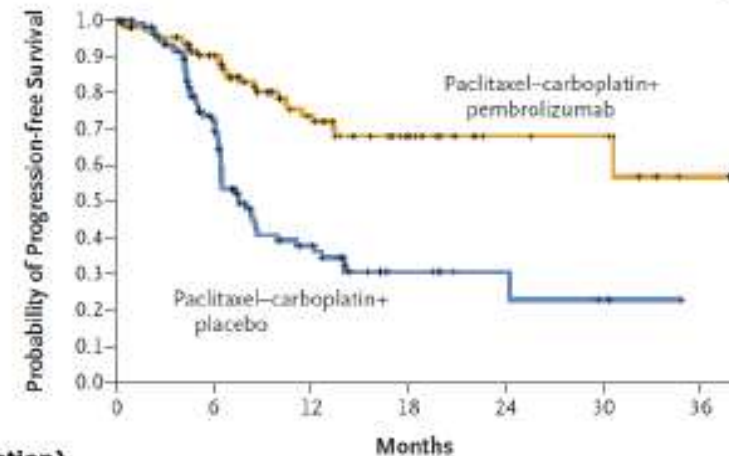
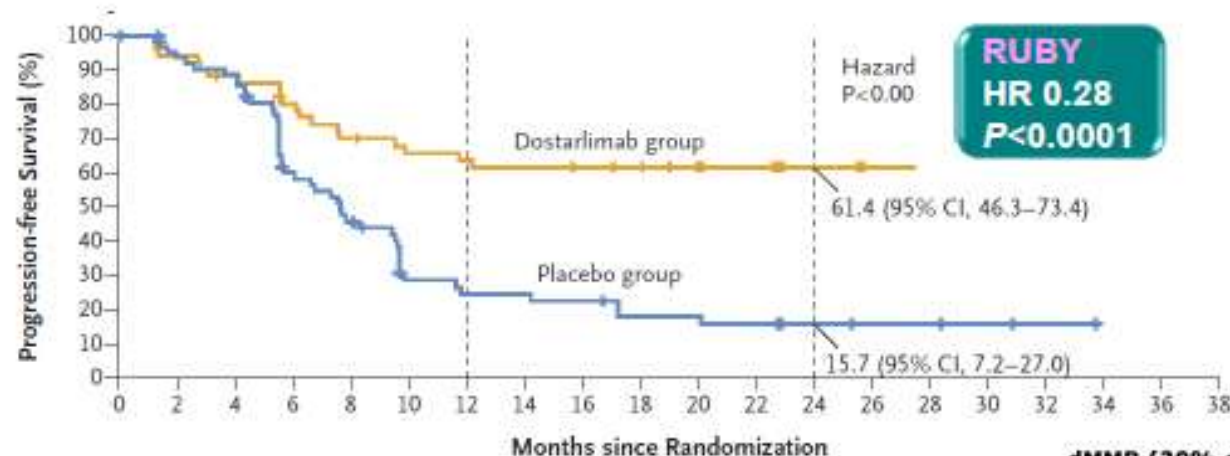
SYSTEMIC THERAPY

FIRST LINE SYSTEMIC THERAPY

in unresectable stage III/IV or recurrent EC with no prior chemotherapy except in the adjuvant setting (including patients with residual disease after surgery)

- The MMR status should be taken into consideration to determine the choice of first line therapy:
 - Patients with MMRd tumours should be offered an ICI e.g. dostarlimab or durvalumab or pembrolizumab (drugs mentioned in alphabetical order) in combination with carboplatin-paclitaxel chemotherapy followed by ICI as maintenance therapy [I, A].

Immune Checkpoint Inhibitor plus Chemotherapy in First-line Endometrial Cancer: PFS in dMMR Tumors



Mansoor R. Mirza et al. NEJM August 2023,
Ramez N. Eskander et al. NEJM August 2023,
Westin SN et al. J Clin Oncol 2024;42:283–99N

SYSTEMIC THERAPY

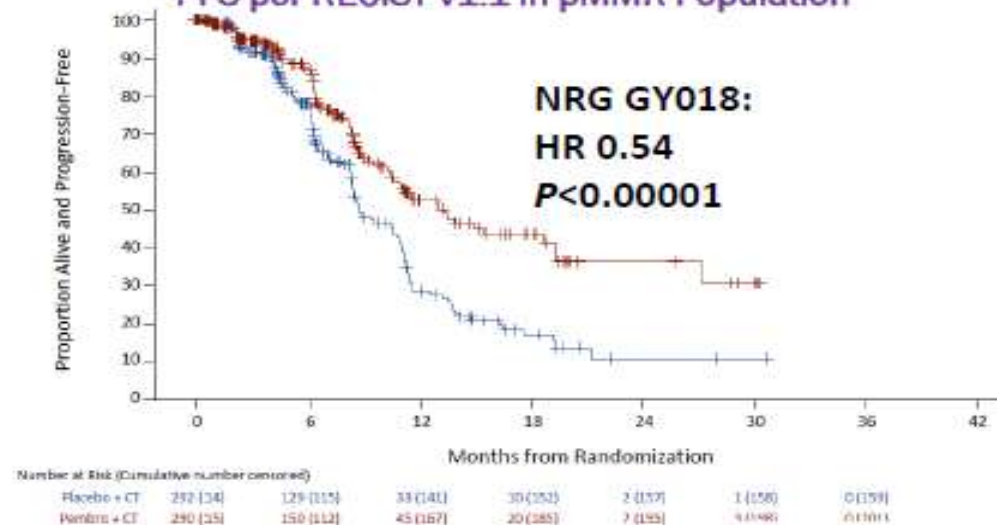
FIRST LINE SYSTEMIC THERAPY

in unresectable stage III/IV or recurrent EC with no prior chemotherapy except in the adjuvant setting (including patients with residual disease after surgery)

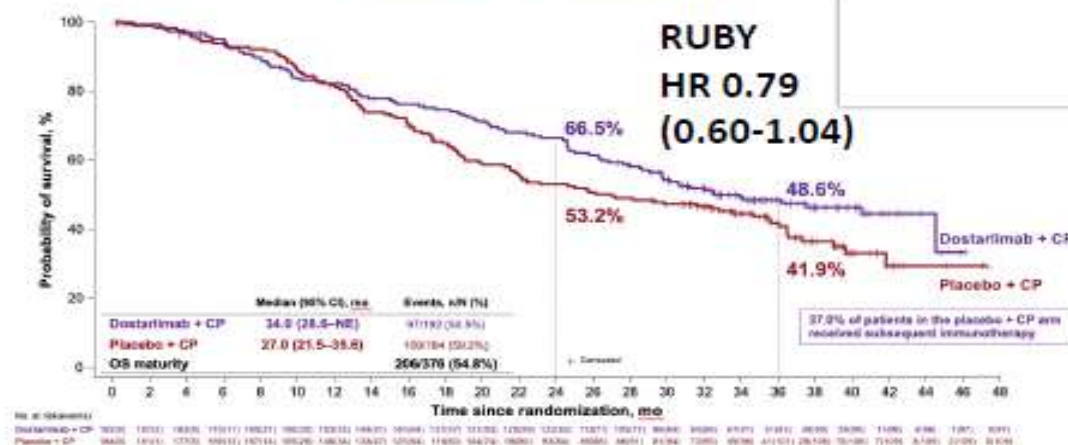
- Patients with non-MMRd tumours with rapidly growing/symptomatic disease should be offered carboplatin- paclitaxel chemotherapy [I, A]. The addition of ICI to chemotherapy followed by ICI as maintenance therapy, e.g. dostarlimab or pembrolizumab (drugs mentioned in alphabetical order), or the addition of ICI followed by a combination of ICI and PARPi as maintenance therapy, i.e. durvalumab and olaparib, can be considered [I, B].

Immune Checkpoint Inhibitor plus Chemotherapy in First-line Endometrial Cancer: PFS in pMMR Tumors

PFS per RECIST v1.1 in pMMR Population



MMRp/MSS Population^a



pMMR (80% of population)



Eskander R, et al. *N Engl J Med*. March 2023
Powell M.A. et al. *Annals of Oncology*, Volume 35, Issue 8, 726 – 738, 2024;
Westin SN et al. *J Clin Oncol* 2024;42:283-99

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SYSTEMIC THERAPY

FIRST LINE SYSTEMIC THERAPY

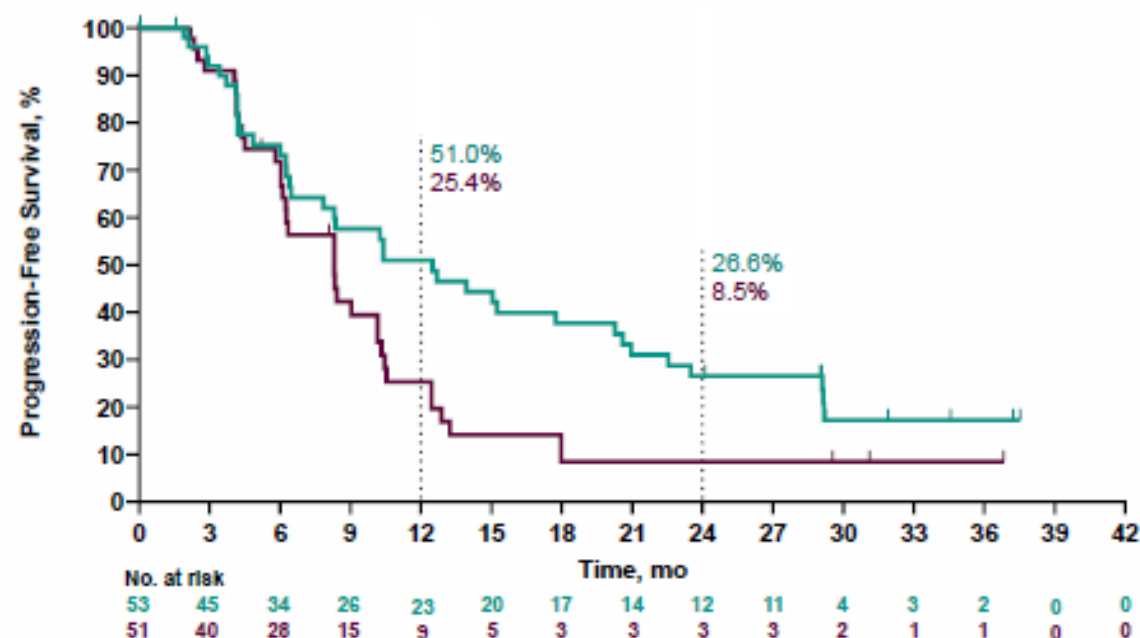
in unresectable stage III/IV or recurrent EC with no prior chemotherapy except in the adjuvant setting (including patients with residual disease after surgery)

- If chemotherapy is contraindicated, in patients with non-MMRd relapsed disease and with prior chemotherapy in the adjuvant/neoadjuvant setting, a combination of pembrolizumab and the multi-tyrosine-kinase inhibitor lenvatinib may be considered [III, C].

ENGOT-en9/LEAP-001 Progression-Free Survival^a Improved With LEN/PEMBRO vs TC in Prior Neoadjuvant/Adjuvant Chemotherapy Subgroup

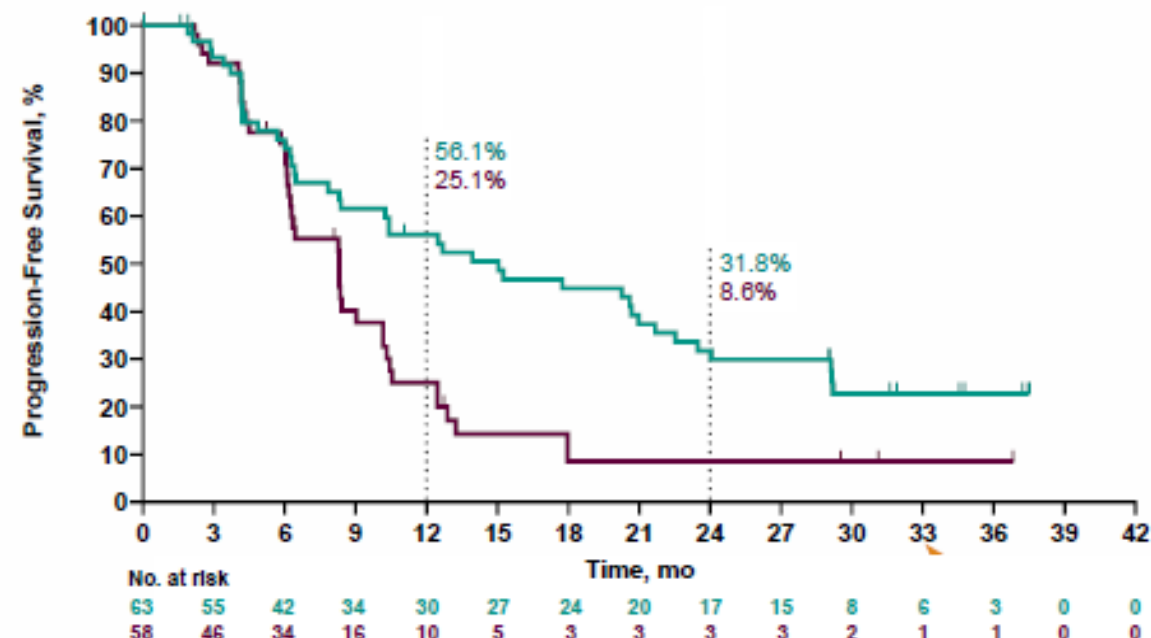
pMMR Population

	Events, n/N	Median (95% CI), mo	HR (95% CI)
LEN/PEMBRO	37/53	12.5 (6.5–20.3)	0.60 (0.37–0.97)
TC	35/51	8.3 (6.1–10.2)	



All-comers

	Events, n/N	Median (95% CI), mo	HR (95% CI)
LEN/PEMBRO	42/63	15.0 (8.3–21.0)	0.52 (0.33–0.82)
TC	39/58	8.3 (6.2–10.2)	



SYSTEMIC THERAPY

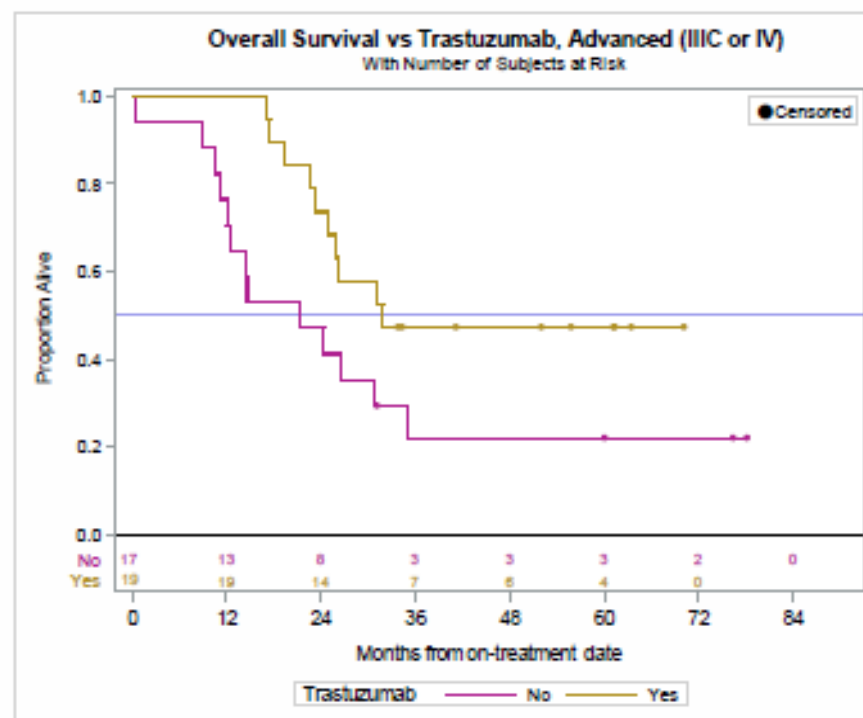
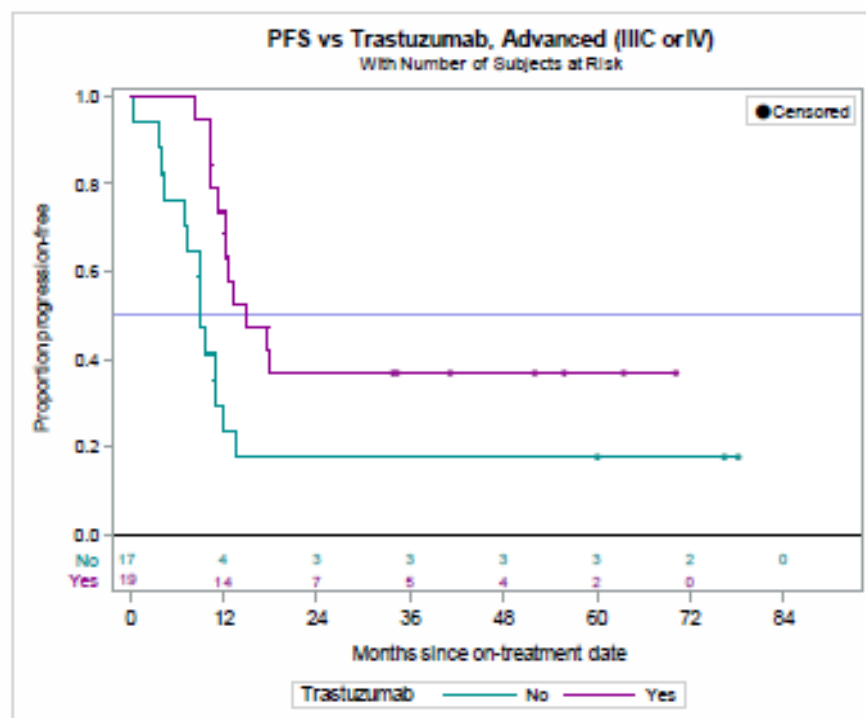
FIRST LINE SYSTEMIC THERAPY

in unresectable stage III/IV or recurrent EC with no prior chemotherapy except in the adjuvant setting (including patients with residual disease after surgery)

- If ICI (\pm PARPi) is contraindicated, for patients with a HER2 3+ tumour, a combination of carboplatin-paclitaxel plus trastuzumab may be considered [II, B].
- The standard chemotherapy regimen is 6 cycles of carboplatin-paclitaxel [I, A].

Carboplatin/paclitaxel+/-Trastuzumab (NCT01367002)

Updated Survival analysis stage III/IV



In a subset analysis of pts restricted to stage IIIC/IV disease, the addition of trastuzumab (n=17) continued to provide both (*left*) PFS benefit over control (n=19) and OS benefit over control (21.1 versus 31.9 months, HR 0.440 90% CI 0.219-0.882 **p=0.0230**).

SYSTEMIC THERAPY

FIRST LINE SYSTEMIC THERAPY

in unresectable stage III/IV or recurrent EC with no prior chemotherapy except in the adjuvant setting (including patients with residual disease after surgery)

- In low-grade ER-positive, low volume/asymptomatic advanced or slowly growing recurrent tumours, endocrine therapy is the preferred systemic therapy:
 - Progestins (medroxyprogesterone acetate or megestrol acetate) are recommended [III, A].
 - Alternative options include aromatases inhibitors, and tamoxifen [IV, C].

Open Questions...



- Are all POLE variants qualified as POLEmut EC?
- Which is the cut-off to define HR positive status in EC?
- Which is the prognostic role of focal LVSI? Which is the optimal clinical threshold?
- How to consider EC confined to polyp/endometrium with no myoinvasion?
- How to treat stage III/IVA POLEmut EC?
- Which is the best treatment option for advanced/recurrent non dMMR EC?

Take Home Messages



- New Endometrial Cancer FIGO staging system integrates tumor biology/molecular classification
- New FIGO staging system identifies treatment-relevant groups in order to customize the medical strategy for our patients
- There are still some 'grey areas' which need further investigation
- In advanced/recurrent setting immune-checkpoint inhibitors are paving the present and the future of EC

THE NEW FIGO CLASSIFICATION HAS COMPLETELY CHANGE THE MEDICAL PERSPECTIVE ON ENDOMETRIAL CANCER AND WE ARE STILL LEARNING..

Thank you!