

**AIGOM**ASSOCIAZIONE ITALIANA  
GRUPPI ONCOLOGICI MULTIDISCIPLINARI

# 2025: NOVITÀ NEL TRATTAMENTO DELLE NEOPLASIE GINECOLOGICHE



**VERONA**  
**7 MARZO 2025**

**HOTEL**  
**CROWNE PLAZA**

Responsabile Scientifico  
**Dr.ssa Stefania Gori**

Con il Patrocinio di



## Caratterizzazione istologica e biomolecolare del carcinoma dell'endometrio e nuova classificazione

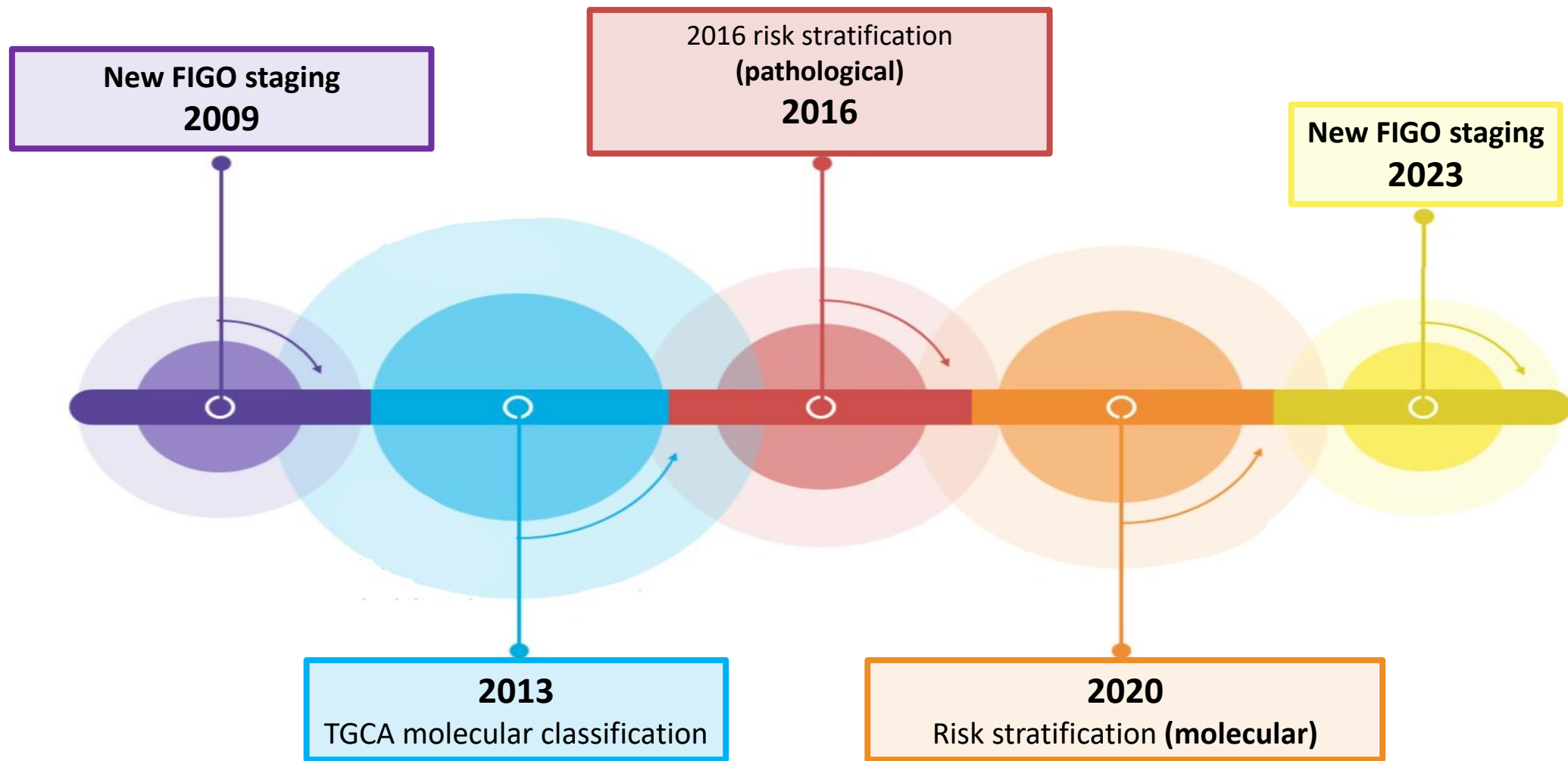
**Claudia Marchetti**

*Dipartimento della salute della donna e del bambino,  
Fondazione Policlinico Universitario A. Gemelli, IRCCS  
Università Cattolica del Sacro Cuore, Italy*

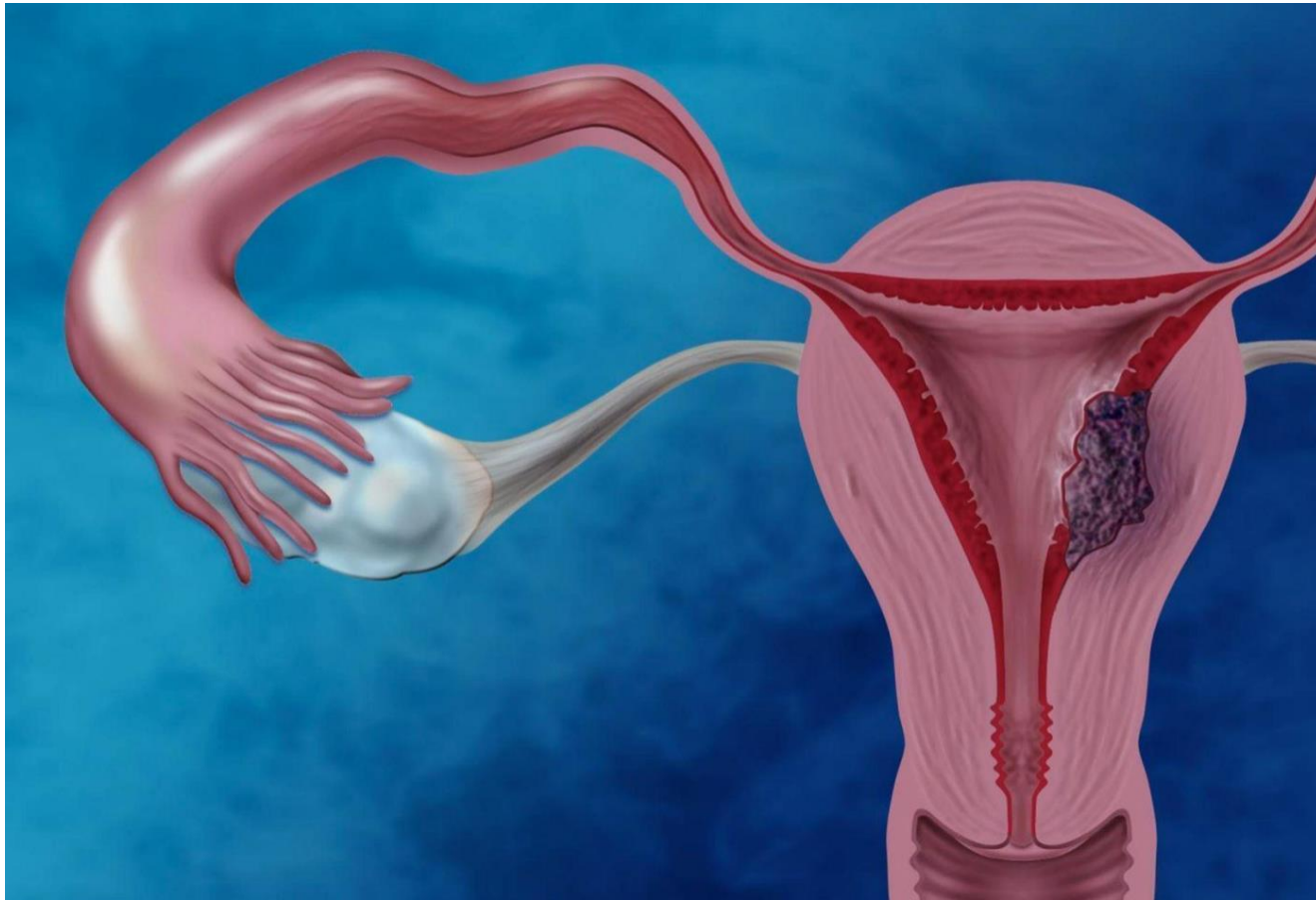
# Disclosures

Consultancy: GSK, Clovis, Pharmamar, Arquer Diagnostics, MSD, Astrazeneca

Travel Support: Roche, Astrazeneca, Pharmamar



# Classification of Endometrial Cancer



## CONVENTIONAL

- Tumor type
- Histopathological grade
- Stage (clinical, surgical, pathological)
- Lymphovascular space invasion (LVSI)

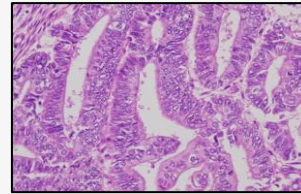
## BIOMOLECULAR

- P53 immunoreactivity/TP53 mutations
- MMR deficiency/microsatellite instability (MSI)
- Pathogenic POLE mutations

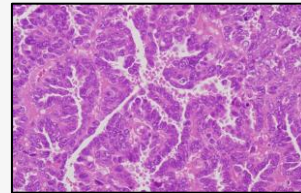


# Endometrial carcinoma: Histological types

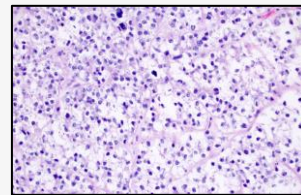
**Endometrioid carcinoma**



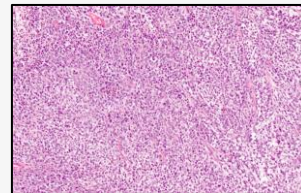
**Serous carcinoma**



**Clear cell carcinoma**

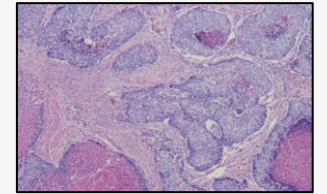


**Undifferentiated/dedifferentiated carcinoma**

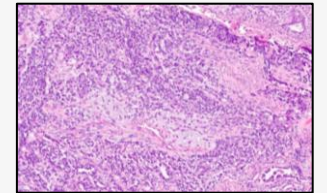


## **Other carcinomas**

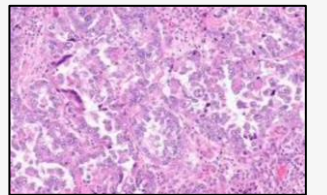
- mesonephric-like
- mucinous intestinal type
- neuroendocrine



## **Carcinosarcoma**



## **Mixed carcinoma**



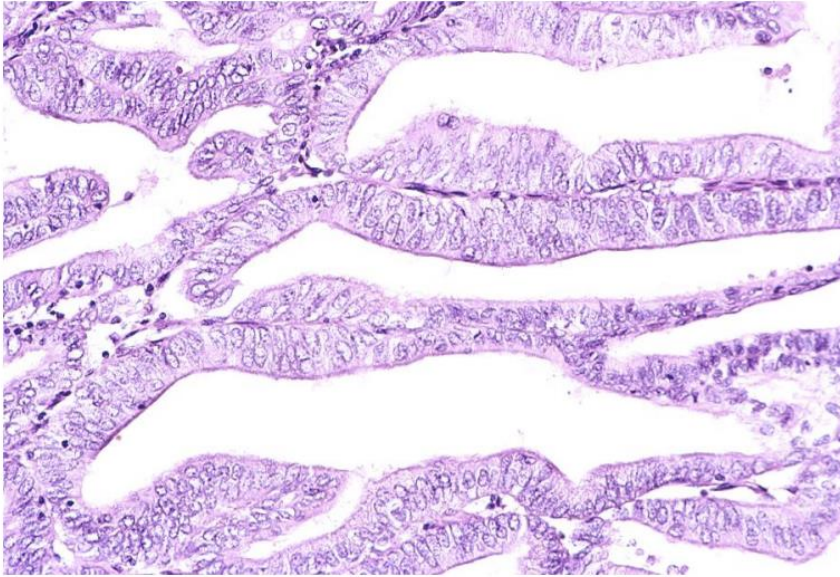
**WHO 2020**

**Less types compared to WHO 2014**

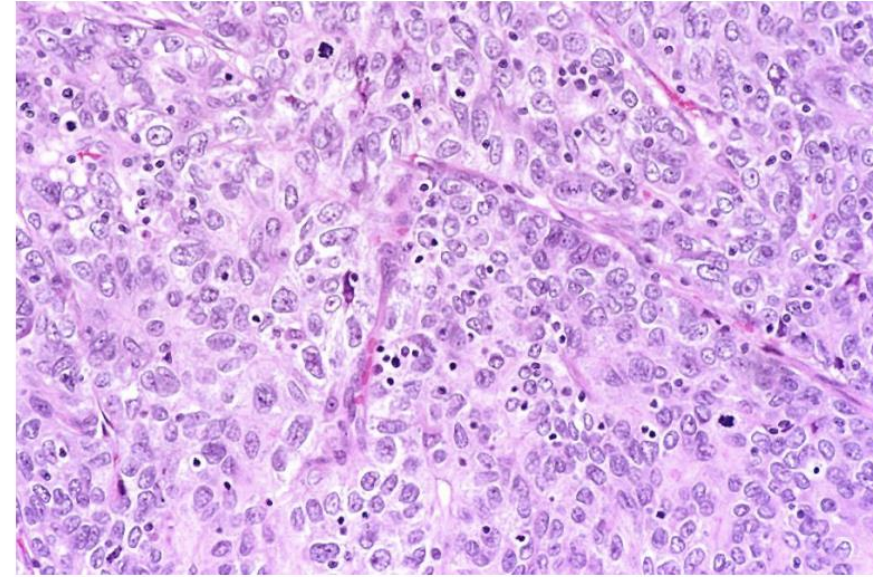


# Endometrial carcinoma: Histological types

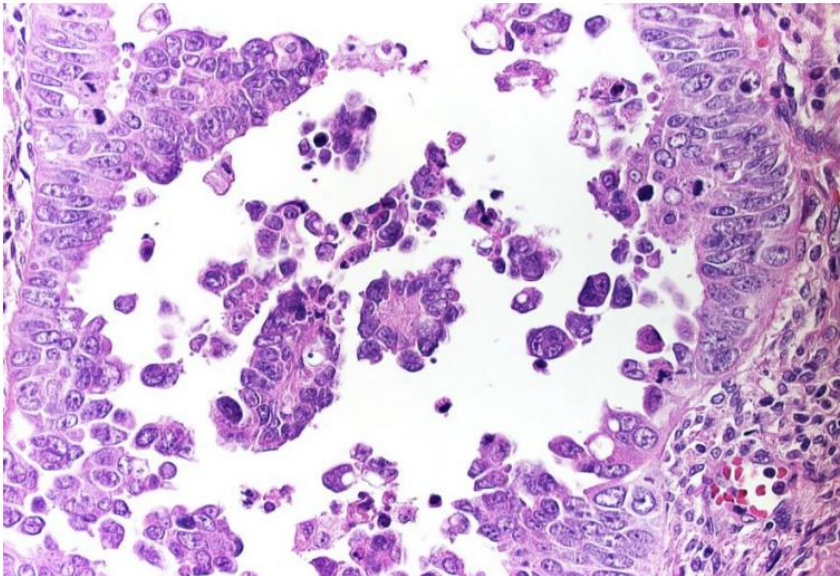
Low grade (G1,2)  
endometrioid



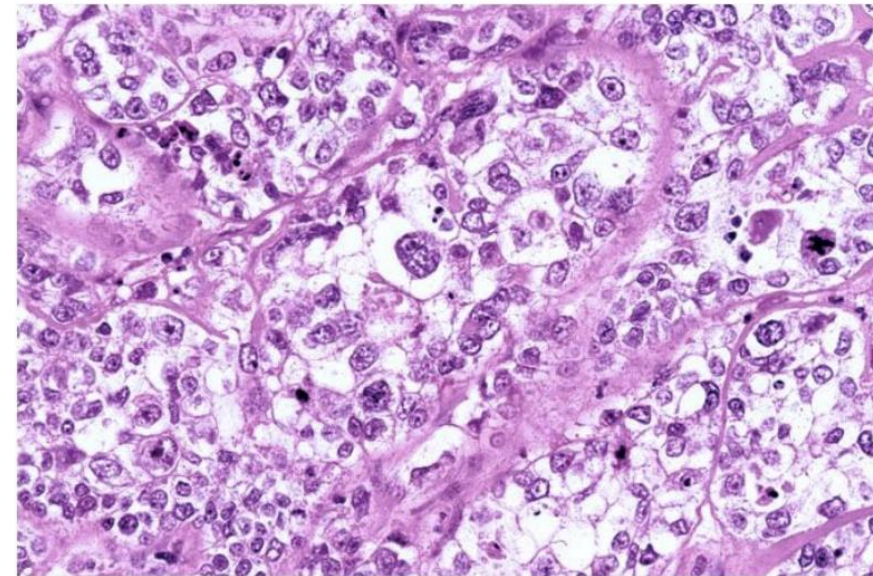
High grade (G3)  
endometrioid



Serous



Clear cell



# Grading of Endometrial Carcinoma

Histological Type	Grading Method
Endometrioid	Modified FIGO (G1, 2: low grade)
Serous	No grading (high grade)
Clear cell	No grading (high grade)
Undifferentiated	No grading (high grade)



# Histopathological types and behavior

## NON-AGGRESSIVE

- **Low grade endometrioid**

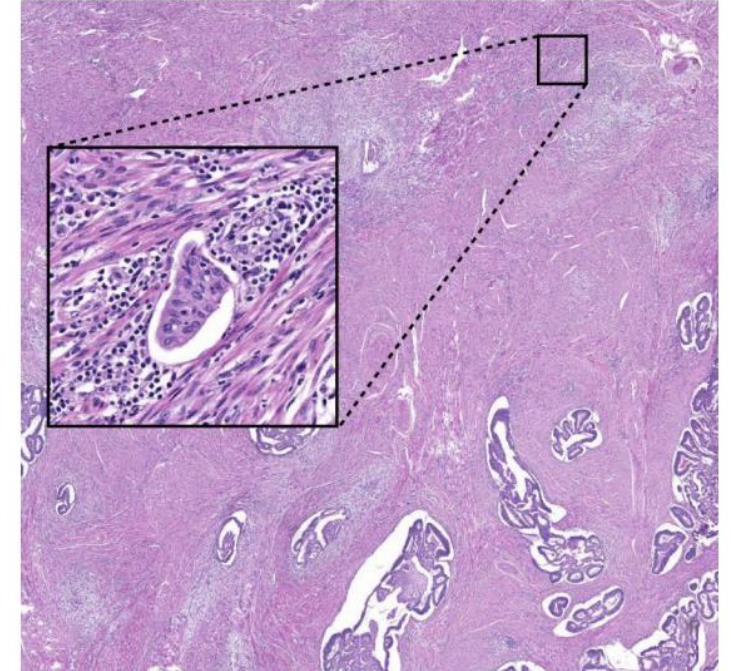
## AGGRESSIVE

- **High grade endometrioid**
- **Serous**
- **Clear cell**
- **Undifferentiated**
- **Carcinosarcoma**
- **Mixed**
- **Others**
  - **mesonephric-like**
  - **intestinal mucinous**
  - **neuroendocrine**



# Lymphovascular space invasion (LVSI)

- Also: lymphovascular invasion (LVI)
- Tumor cells within endothelial-lined spaces (lymphatics, blood vessels)
- No, focal, substantial (extensive)
- Cut-off varies between ESGO ( $\geq 4$  within one slide), WHO ( $\geq 5$ ), IJGP ( $\geq 3$ ) and published studies
- Only few cases between 3 and 5 and numbers usually not reported



## Prognostic impact of LVSI

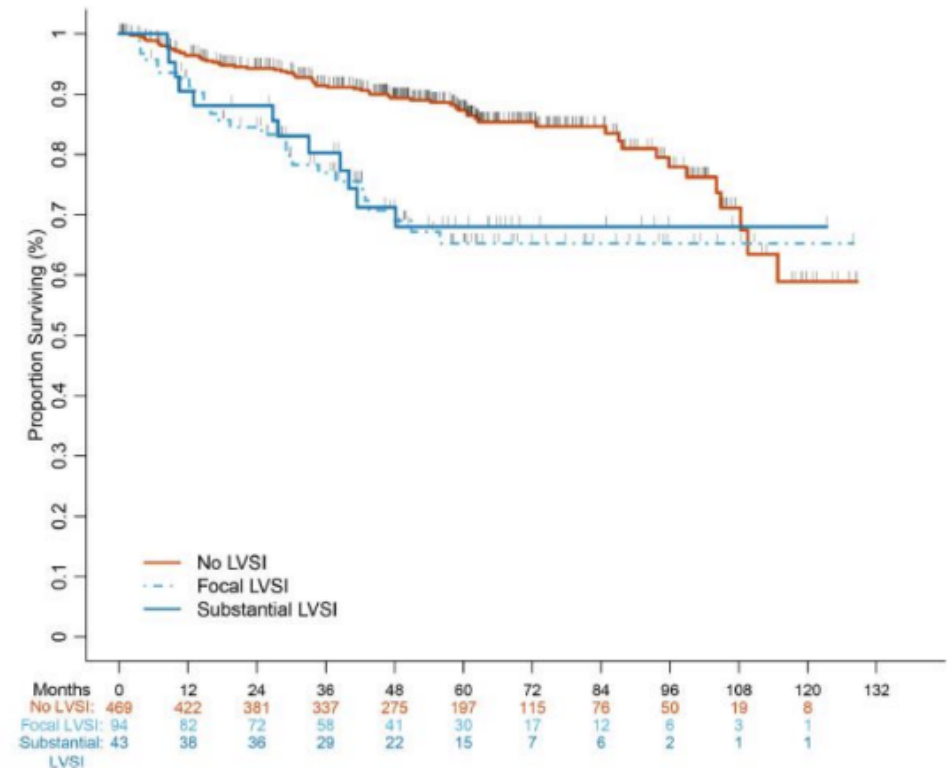
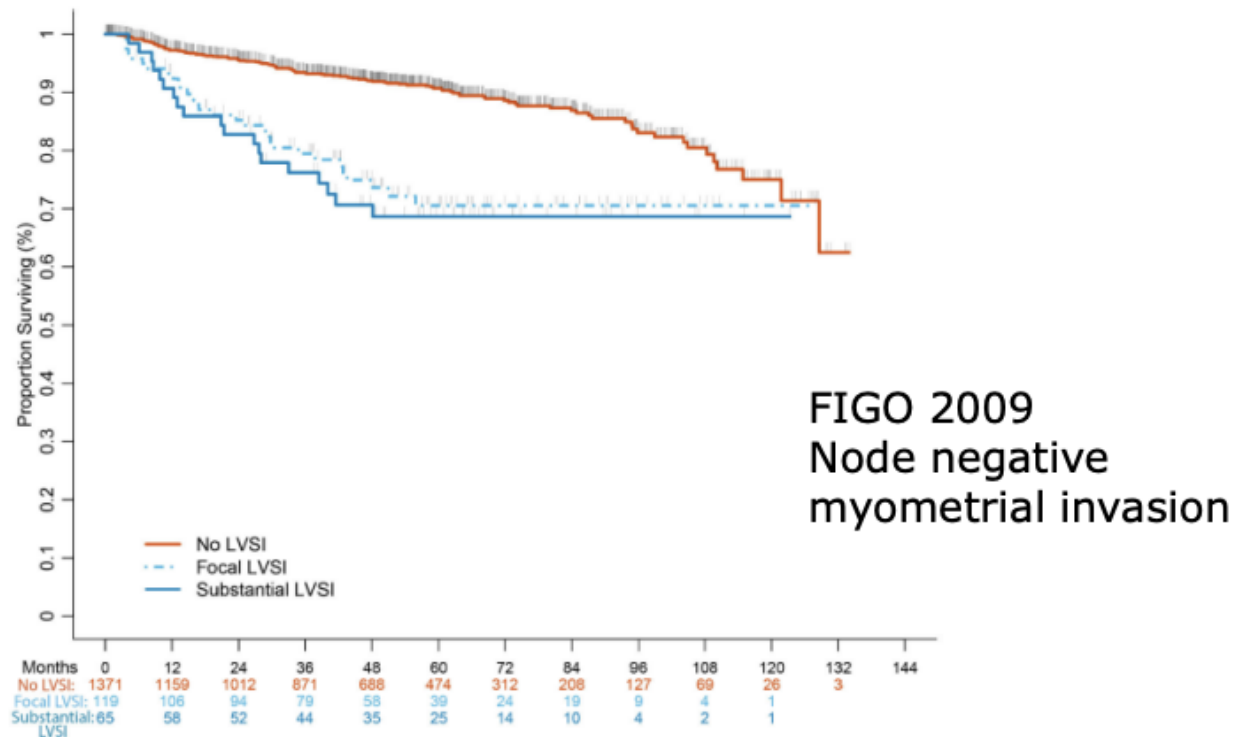
- Threshold for clinically relevant LVSI needed
- Methods differ between studies: review of slides
- Controversy about impact of focal LVSI
- Limited data with molecular classification

# ROLE OF LVSI (STAGE 1)

Memorial Sloan Kettering Cancer Center and Norwegian Radium Hospital/Oslo University Hospital

## Stage I, endometrioid

## Stage I, G1 and 2, endometrioid

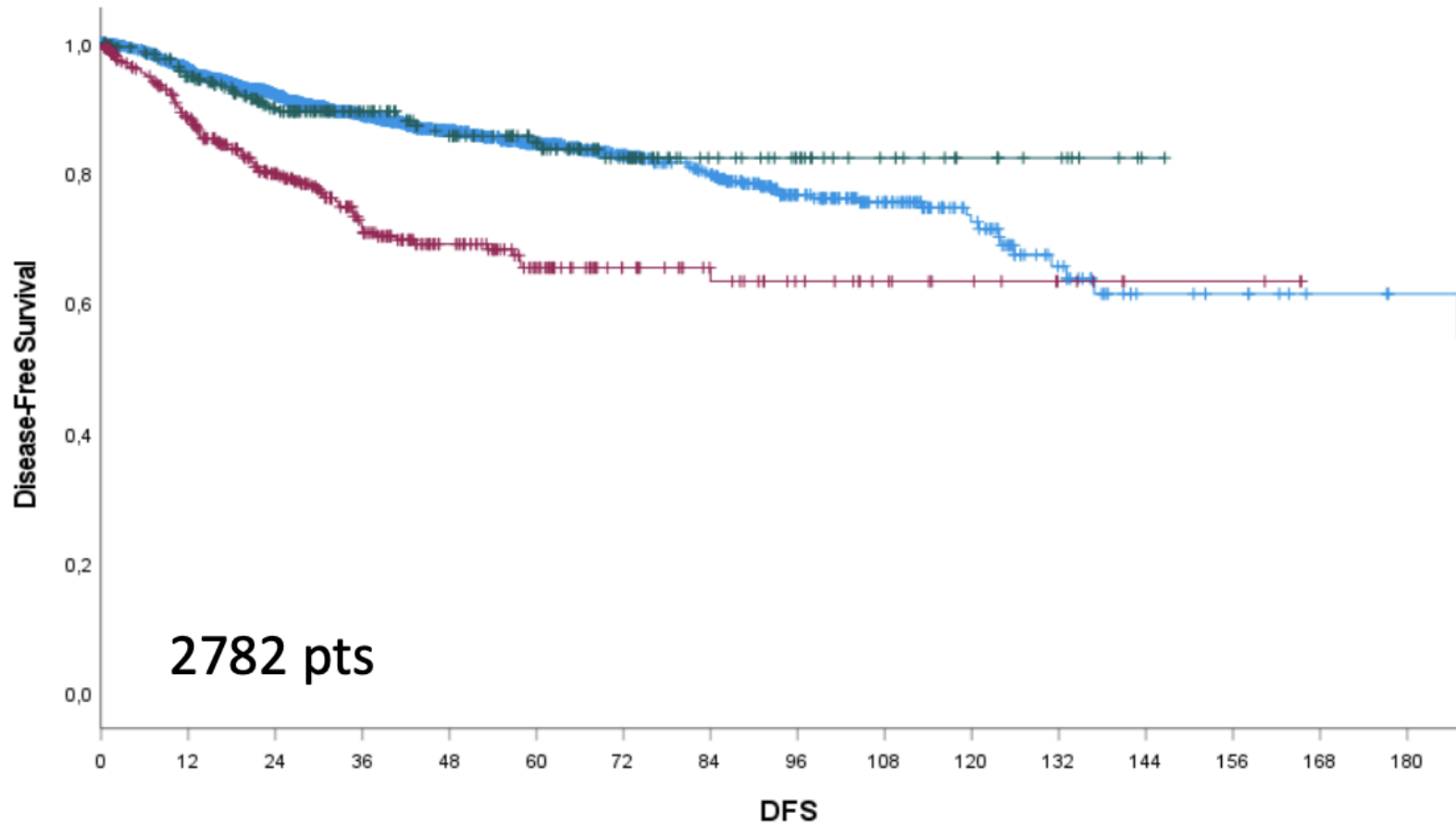


# All histologies, stage I-II

Gemelli



Fondazione Policlinico Universitario Agostino Gemelli IRCCS  
Università Cattolica del Sacro Cuore



LVSI focal  
LVSI negative  
LVSI substantial

Overall  $p < 0.001$

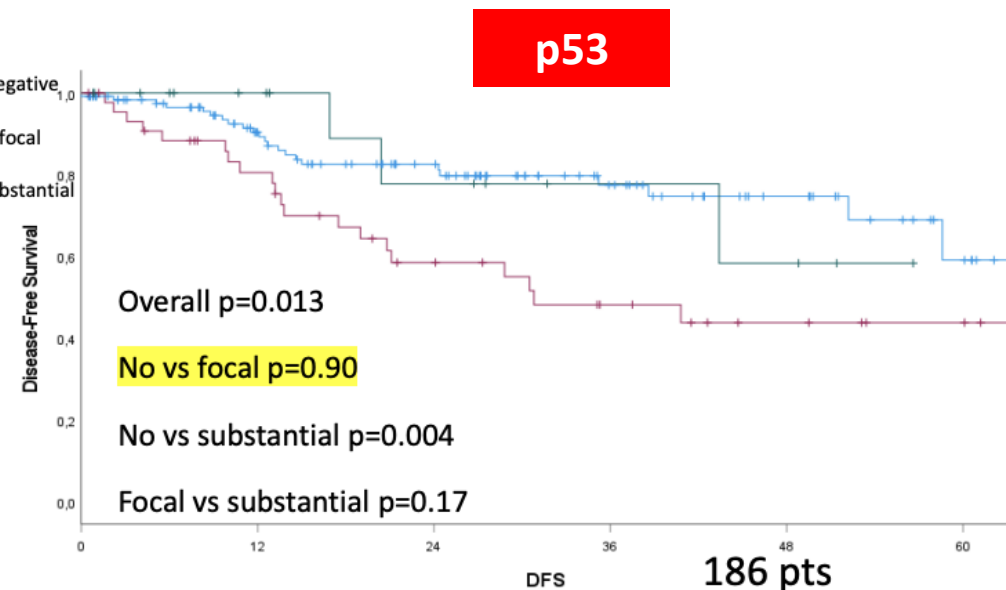
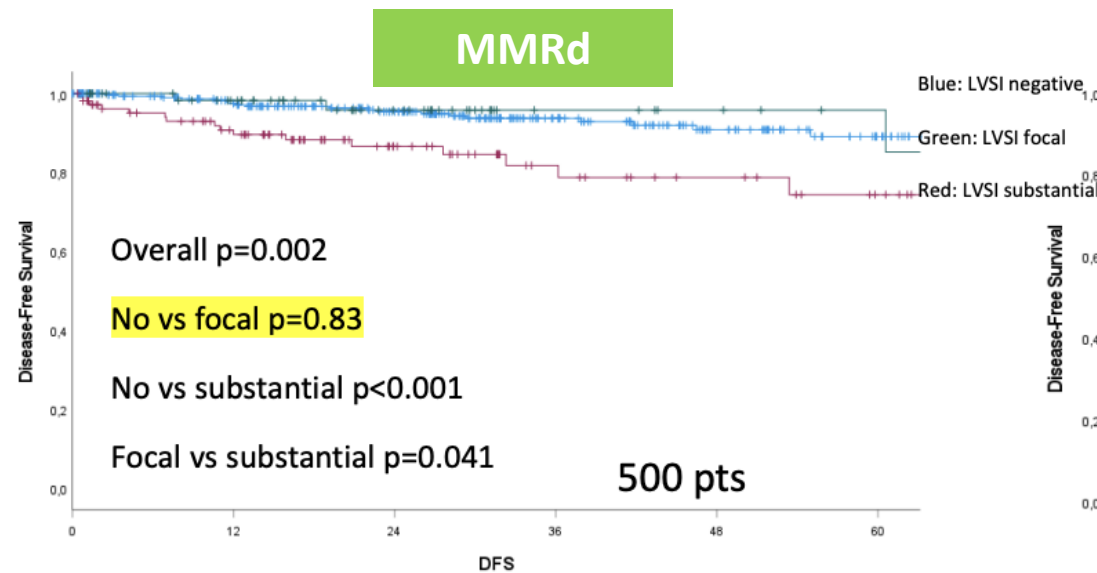
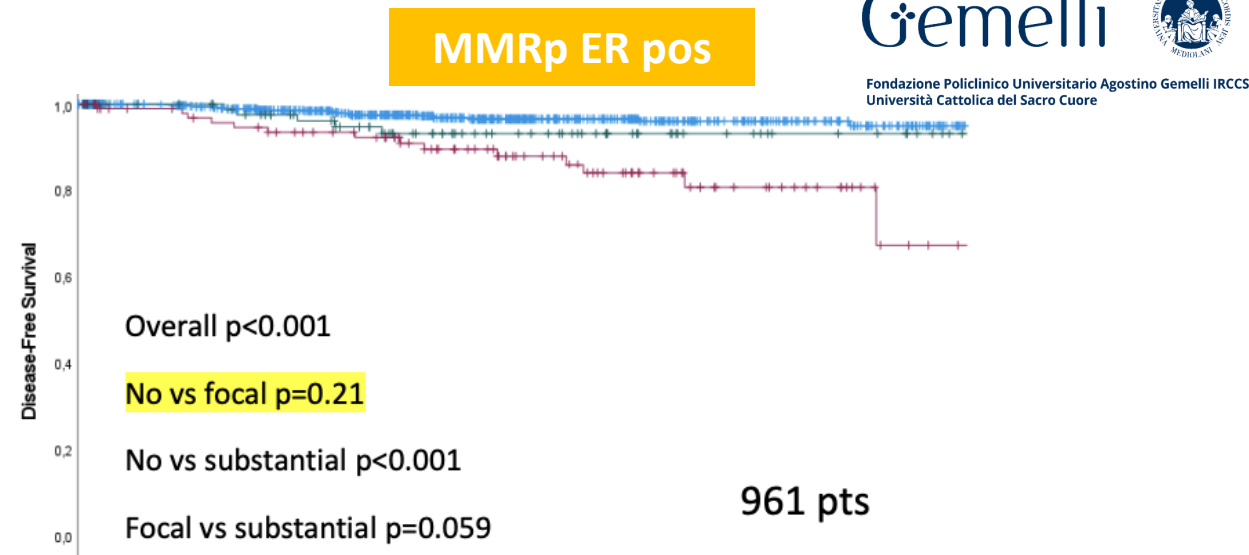
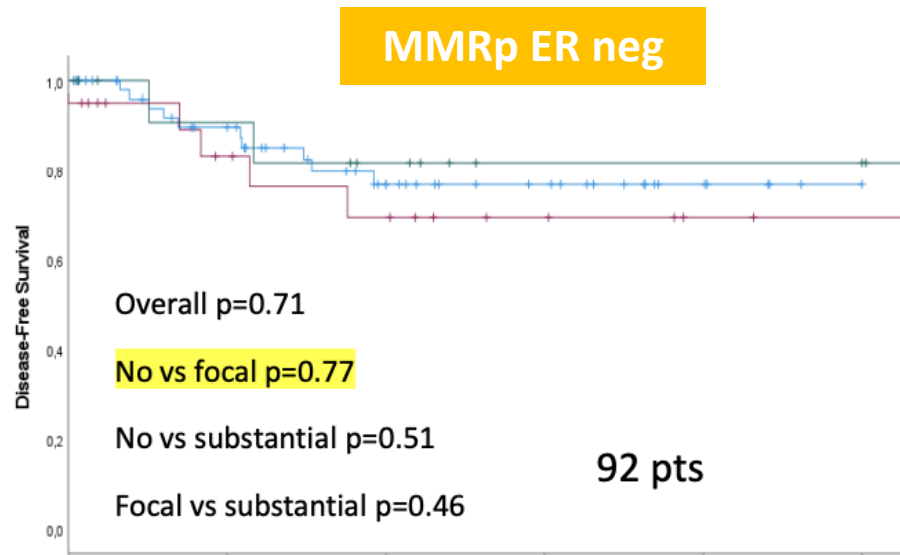
No vs focal  $p = 0.61$

No vs substantial  $p < 0.001$

Focal vs substantial  $p < 0.001$

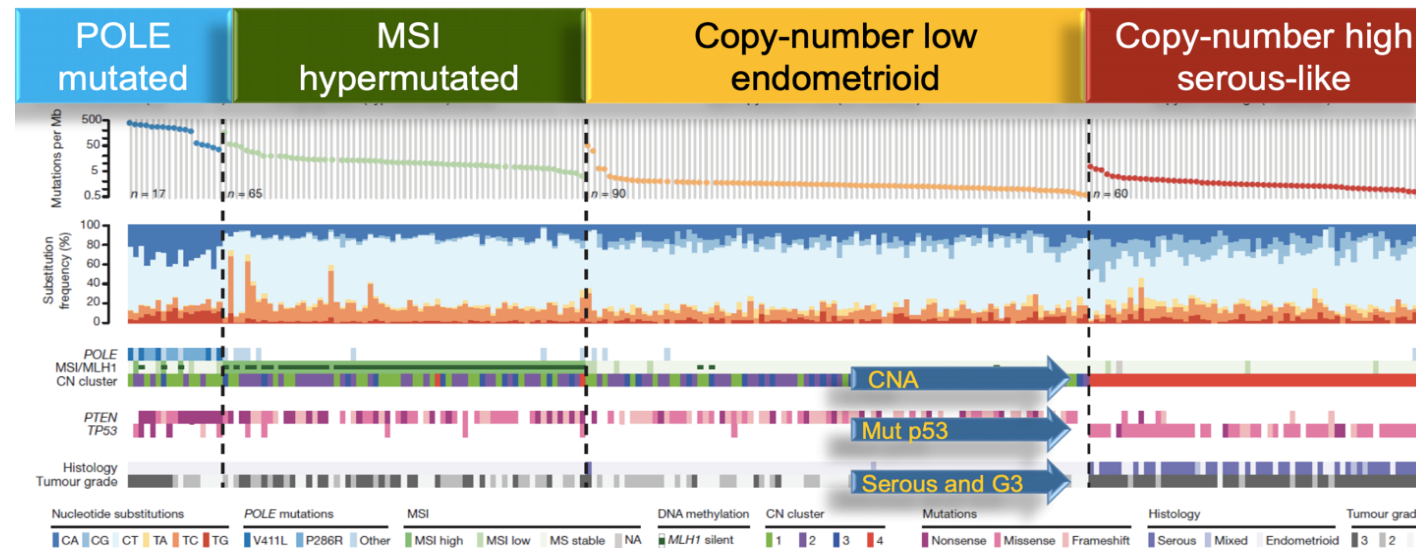
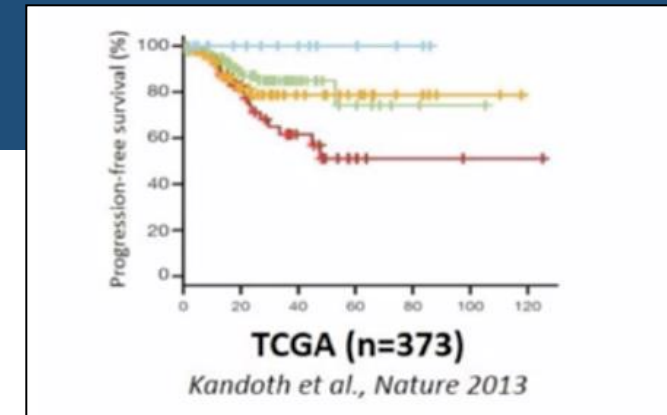


# All histologies, stage I-II, according to molecular subgroups

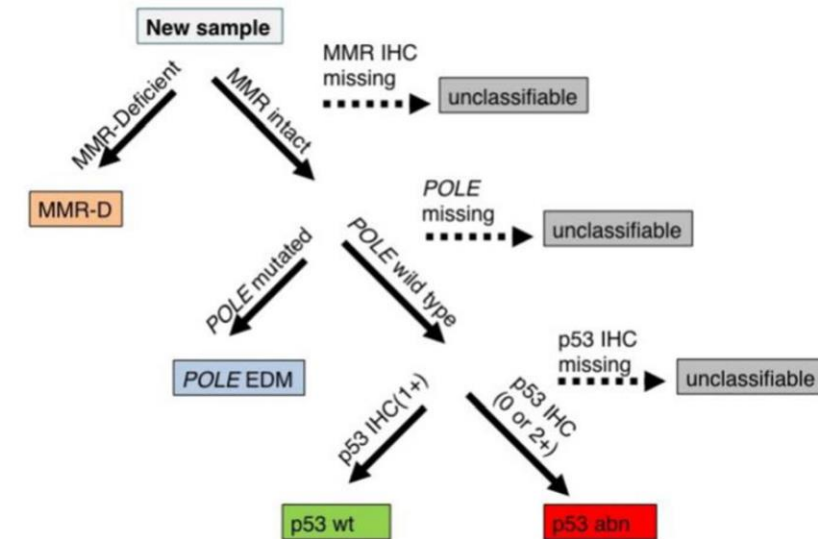


# A genomic-based approach has identified four distinct molecular subgroups of endometrial cancer<sup>1,2</sup>

<b>POLE ultramutated EC</b>	<b>MMRdeficient EC</b>	<b>NSMP EC</b>	<b>P53mutant EC</b>
<b>5-15%</b>	<b>25-30%</b>	<b>30-40%</b>	<b>5-15%</b>



## ProMisE /Vancouver group molecular classification



POLE and MSI-high subgroups have high tumor mutational load and are often characterized by high TILs and high expression of immune checkpoints<sup>3</sup>

CNA, copy number alteration; MSI, microsatellite instability; NSMP, no specific molecular profile; TIL, tumor-infiltrating lymphocyte.

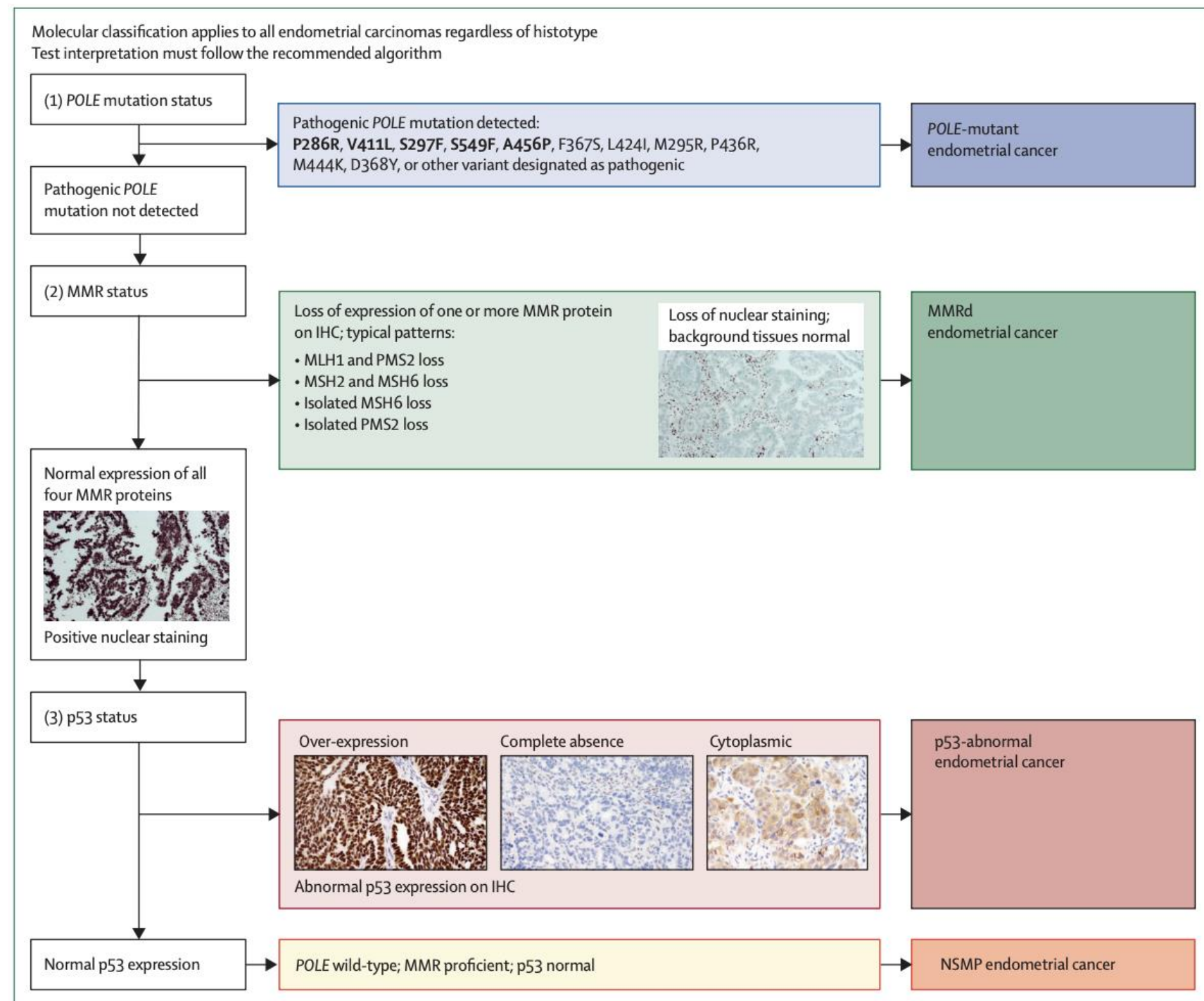
1. Cancer Genome Atlas Research Network. *Nature*. 2013;497(744):67-73; 2. Morice P, et al. *Lancet*. 2016;387(10023):1094-1108;

3. Mittica G, et al. *Oncotarget*. 2017;8(52):90532-90544.

# WHO-endorsed pragmatic approach to molecular classification of endometrial carcinoma in clinical practice

**... should be performed on biopsies...**

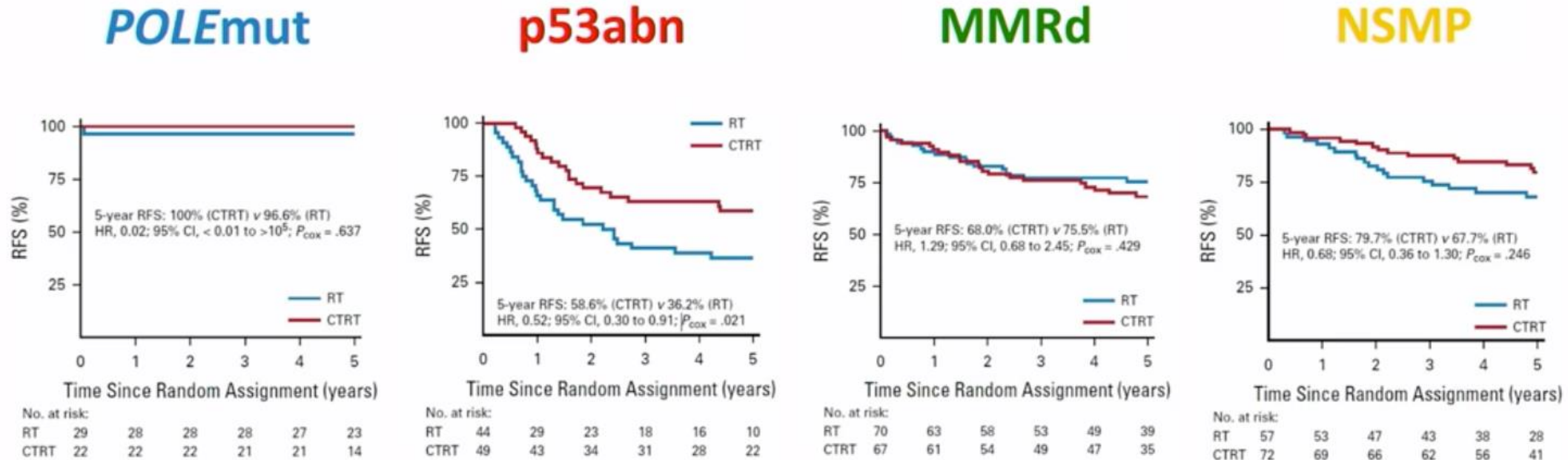
IHC, immunohistochemistry.  
 Cancer Genome Atlas Research Network. *Nature*. 2013;497(744):67-73; Talhouk A, et al. *Br J Cancer*. 2015;113(2):299-310; Talhouk A, et al. *Cancer*. 2017;123(5):802-813; Kommos S, et al. *Ann Oncol*. 2018;29(5):1180-1188; Stelloo E, et al. *Mod Pathol*. 2015;28(6):836-844; Herrington CS. *WHO Classification of Tumours: Female Genital Tumours*. International Agency for Research on Cancer, 2020.





# PORTEC-3 translational results

## Predictive potential of molecular classification for adjuvant platinum-based treatment



### ESGO-ESTRO-ESP EC Guidelines

Specific treatment recommendations for *POLEmut* stage I/II and *p53mut* EC based on current level of evidence

'Multiple classifier' endometrial cancer (3–5%)

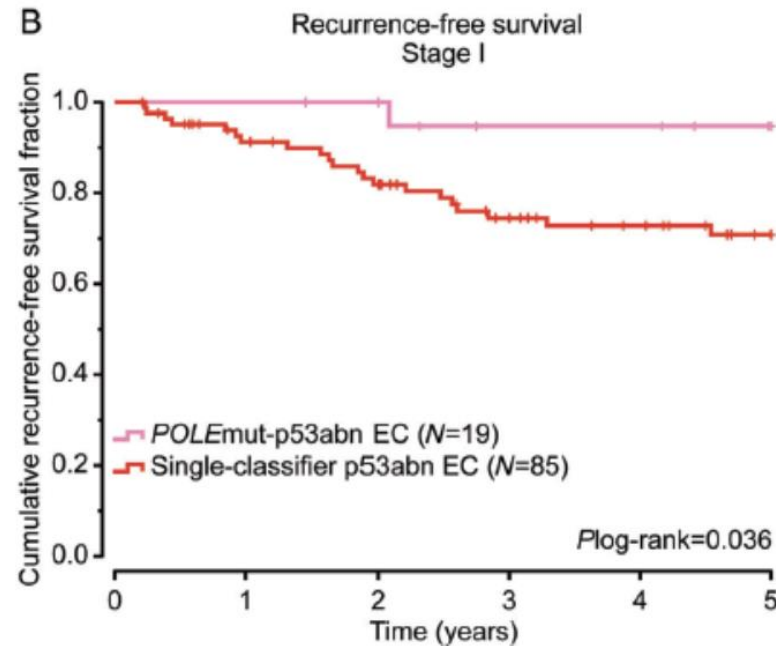
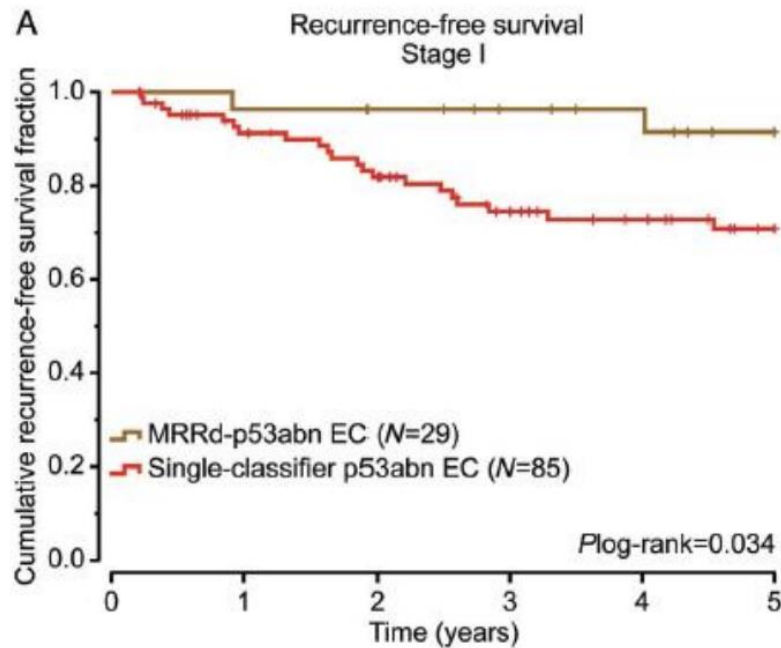
<b>POLE</b>		<b>MMR</b>		<b>p53</b>	<b>MOLECULAR CLASS</b>
<b>POLE mut</b>	+	MMR-p	+	p53 normal	<b>POLE MUT</b>
POLE wt	+	<b>MMR-d</b>	+	p53 normal	<b>MMR-d</b>
POLE wt	+	MMR-p	+	p53 normal	<b>p53wt/NSMP</b>
POLE wt	+	MMR-p	+	<b>p53 abnormal</b>	<b>p53 abnormal</b>
<b>POLE mut</b>	+	<b>MMR-d</b>	+	p53 normal	<b>Double classifier -&gt; POLE MUT</b>
<b>POLE mut</b>	+	MMR-p	+	<b>p53 abnormal</b>	<b>Double classifier -&gt; POLE MUT</b>
POLE wt	+	<b>MMR-d</b>	+	<b>p53 abnormal</b>	<b>Double classifier -&gt; MMR-d</b>
<b>POLE mut</b>	+	<b>MMR-d</b>	+	<b>p53 abnormal</b>	<b>Multiple classifier -&gt; POLE MUT</b>

Courtesy of Caterina Fumagalli, Paola Rafaniello Raviele and Ilaroa Betella

MMRd, mismatch repair deficient.

Cancer Genome Atlas Research Network. *Nature*. 2013;497(744):67-73; Stelloo E, et al. *Mod Pathol*. 2015;28(6):836-844; Bosse T, et al. *Am J Stelloo, et al. Gyn Once* 2014; Talhouket, et al. *Gyn Onc* 2016; Kommoss, McAlpine, Talhouk. *Annals Oncol* 2018; Abdulfatahet, et al. *Gyn Onc* 2019; Leon-Castillo, et al. *J Pathol* 2019; Talhouk A. *Cancer* 2017; Hussein YR. *Mod Pathol* 2015.

# Molecular subtypes and prognosis



## Multiple classifier

- **Rare** (about 3.5% of endometrial carcinomas):
  - **MMRd/p53abn (60%)**
  - **POLEmut/p53abn (29%)**
  - **POLEmut/MMRd/p53abn (11%)**
- **Prognosis** significantly **better** than for p53abn tumor
- **TP53 mutations** seem to be **passengers** without impact
- **POLEmut/MMRd** are considered **POLEmut**



# Molecular and clinicopathological features of molecular subgroups

	<b>POLEmut EC</b>	<b>MMRd EC</b>	<b>NSMP EC</b>	<b>P53abn EC</b>
<b>Frequency<sup>3</sup></b>	5-15%	20-30%	30-60%	10-25%
<b>Age at diagnosis (median)</b>	57 <sup>1</sup>	64 <sup>2</sup>	61 <sup>2</sup>	69 <sup>2</sup>
<b>Surrogate markers<sup>3</sup></b>	NGS (POLE sequencing)	MMR proteins IHC: PMS, MSH6 (MLH1, MSH2)		P53-IHC
	Sanger	MSSI assay		NGS (TP53 sequencing)
	Hot-spot targeted techniques			
<b>Molecular features<sup>3</sup></b>	Ultramutated (>100mut/Mb)	Hypermuted (>10mutations/Mb)	Low TMB	Low TMB
	Somatic copy number alteration-low	Somatic copy number alteration-low	Somatic copy number alteration-low	Somatic copy number alteration-high
	20% with MMR deficiency or MSI	MSI	MSS	MSS
	20% with p53 mutant-expression/TP53 mutations	10% with p53 mutant-expression/TP53 mutations	TP53 wild-type	TP53 mutated
			PTEN mutations	
			PI3CA mutations	
			CTNNB1 mutations	
<b>Associated histological features<sup>3</sup></b>	Mostly high-grade endometrioid	Mostly high-grade endometrioid	Mostly low-grade endometrioid	Mostly high-grade, all histologies
	Ambiguous morphology	Substantial LVSI	Squamous metaplasia	Substantial LVSI
	Tumor giant cells	MELF-like invasion	ER/PR positive	High-grade atypia
	High immune infiltrate (intra-epithelial CD8+ lymphocytes and TLS)	High immune infiltrate (intra-epithelial CD8+ lymphocytes and TLS)		
<b>Early stage (I-II)</b>	90.2% <sup>1</sup>	85.9% <sup>2</sup>	91.5% <sup>2</sup>	81.6% <sup>2</sup>
<b>Tumor Grade G3</b>	50.7% <sup>1</sup>	27.7% <sup>2</sup>	12.5% <sup>2</sup>	96.5% <sup>2</sup>
<b>Not-endometrioid histotype</b>	10.6% <sup>1</sup>	10.9% <sup>2</sup>	6.2% <sup>2</sup>	88.6% <sup>2</sup>
<b>LVSI negative</b>	68.4% <sup>1</sup>	75.1% <sup>2</sup>	83.7% <sup>2</sup>	61.3% <sup>2</sup>
<b>ER status</b>				
<b>Negative</b>		7.1% <sup>2</sup>	2.9% <sup>2</sup>	22.1% <sup>2</sup>
<b>1+</b>		13.7% <sup>2</sup>	10.9% <sup>2</sup>	28.3% <sup>2</sup>
<b>Associated clinical features<sup>3</sup></b>	Low BMI	High BMI	High BMI	Low BMI
	Early stage			Advanced stage
	Younger patients	10% Lynch syndrome carriers		Older patients
		Local recurrences		Distant recurrences
<b>Prognosis<sup>3</sup></b>	Excellent	Intermediate	Intermediate-poor; stage and histologic-grade dependent	Poor
<b>Potential biomarkers for prognosis refinement<sup>3</sup></b>		TLS	CD8 intra-epithelial lymphocytes	CD8 intra-epithelial lymphocytes

**TP53mut worst prognosis**

**NSMP and MMRd intermediate prognosis** without statistical significance for total collective but varies for subgroups

**TP53mut, NSMP and MMRd affected by adverse clinicopathological factors (stage, grade, LVSI)**

**POLEmut best prognosis, not affected by adverse clinicopathological factors**

1. MC. Springer Cancer 2022, 2. J. Clin Oncol. Syst Onc, 2022, 3. EBio. Gastrointest Oncol. Springer Cancer 2020.



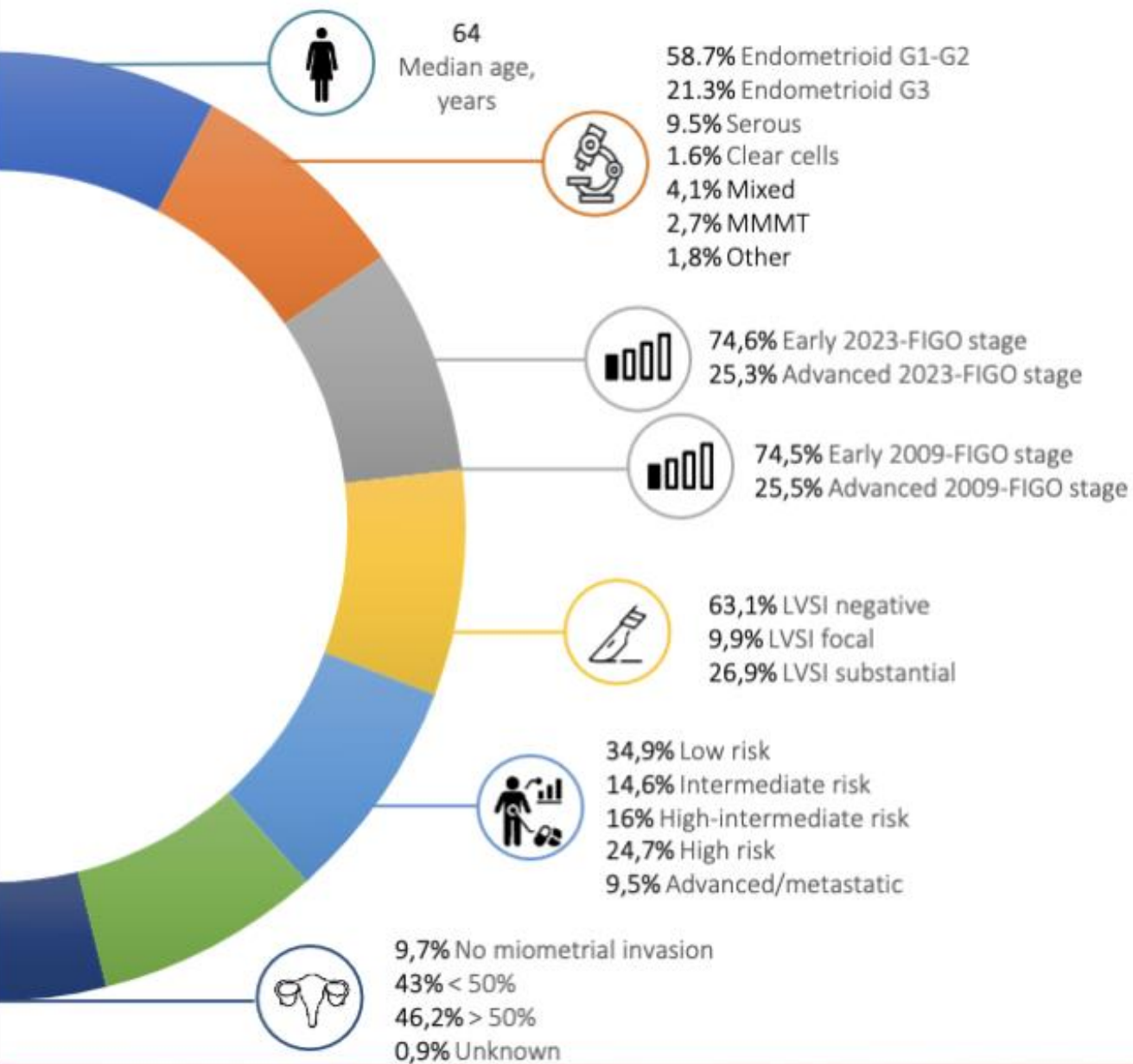
**Improving Endometrial Cancer  
Assessment By Combining The New  
Technique Of GENomic Profiling With  
Surgical Extra Uterine Disease  
Assessment (EUGENIE). Second  
Interim Analysis After Two Years Of  
Enrolment.**

Rita Trozzi, Luigi Congedo, Giulia Pellecchia, Elisa Ervas,  
Giovanni Esposito, Camilla Nero, Emilia Palmieri, Luca Palmieri,  
Daniela Annibali, Annouschka Laenen, Anne-Sophie Van  
Rompuy, Giuseppe Vizzielli, Stefano Restaino, Franco Odicino,  
Jure Knez, Thaïs Baert, Giovanni Scambia, Francesco Fanfani,  
Frédéric Amant

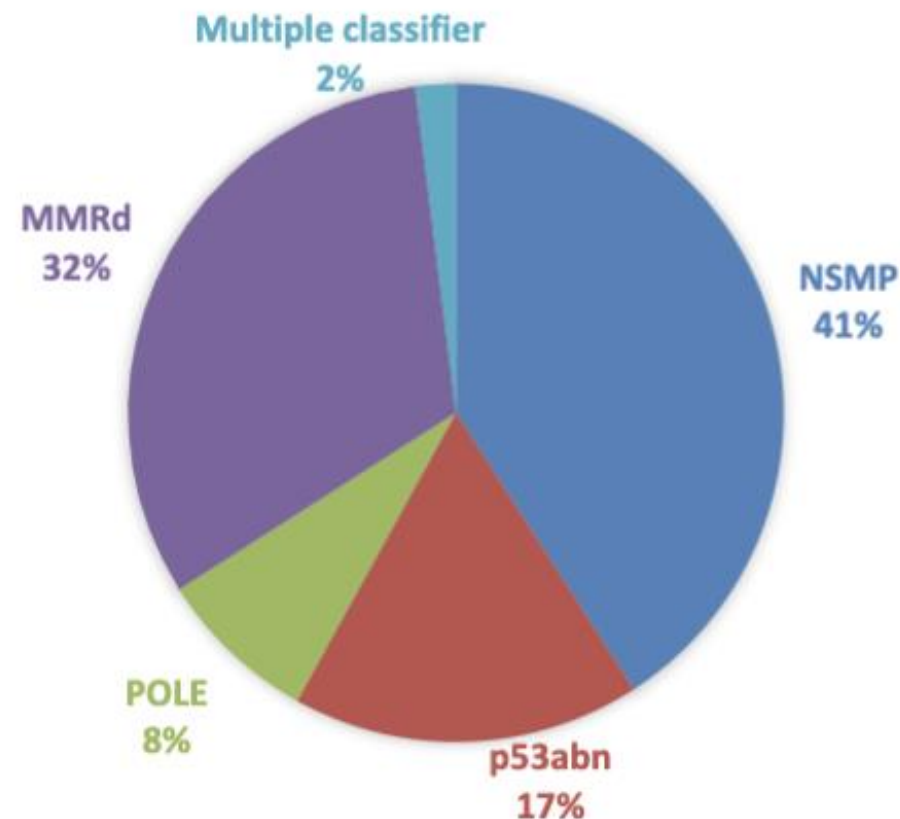
21<sup>st</sup> of February 2025  
Rita Trozzi

[congress.esgo.org](http://congress.esgo.org)

# Results – clinical and molecular characteristics of the Cohort



## MOLECULAR CLASSIFICATION





# Results - Metastatic Sites in the Full Cohort



	All pts (n=553)	NSMP (n=226)	MMRd (n=181)	p53abn (n=95)	POLE (n=51)	P value
FIGO 2023						<0.001
Early	413 (74.7%)	189 (83.6%)	131 (72.4%)	48 (50.5%)	45 (88.2%)	
Advanced	140 (25.3%)	37 (16.4%)	50 (27.6%)	47 (49.5%)	6 (11.8%)	
HISTOLOGY						<0.001
Endometrioid	442 (79.9%)	214 (94.6%)	163 (90.1%)	18 (18.9%)	47 (92.2%)	
Other	111 (20.1%)	12 (5.4%)	18 (9.9%)	77 (81.1%)	4 (7.8%)	
GRADING						<0.001
G1	87 (15.7%)	60 (26.5%)	17 (9.4%)	6 (6.3%)	4 (7.8%)	
G2	238 (43.0%)	127 (56.2%)	88 (48.6%)	3 (3.2%)	20 (39.2%)	
G3	222 (40.1%)	38 (16.8%)	76 (42.0%)	81 (85.3%)	27 (52.9%)	
Missing	6 (1.1%)	1 (0.4%)	0	5 (5.3%)	0	
LVI						0.028
Negative	349 (63.1)	157 (69.5)	103 (56.9)	51 (53.7)	38 (74.5)	
Focal	55 (9.9)	20 (8.8)	21 (11.6)	12 (12.6)	2 (3.9)	
Substantial	149 (26.9)	49 (21.7)	57 (31.5)	32 (33.7)	11 (21.6)	
MYOMETRIAL INVASION						<0.001
Absent	54 (9.9%)	29 (12.9%)	8 (4.4%)	9 (9.9%)	8 (15.7%)	
<50%	238 (43.4%)	107 (47.6%)	70 (38.7%)	31 (34.1%)	30 (58.8%)	
>50%	256 (46.7%)	89 (39.6%)	103 (56.9%)	51 (56.0%)	13 (25.5%)	

	All pts (n=553)	NSMP (n=226)	MMRd (n=181)	p53abn (n=95)	POLE (n=51)	P value
ADNEXES	38 (6.9%)	7 (3.1%)	13 (7.2%)	17 (17.9%)	1 (2.0%)	<0.001
LYMPH-NODES	85 (15.4%)	29 (12.8%)	31 (17.1%)	22 (23.2%)	3 (5.9%)	0.023
PERITONEAL	48 (8.7%)	10 (4.4%)	11 (6.1%)	27 (28.4%)	0	<0.001
OMENTAL	28 (5.1%)	5 (2.2%)	4 (2.2%)	19 (20.0%)	0	<0.001
SYSTEMIC	13 (2.4%)	1 (0.4%)	3 (1.7%)	8 (8.4%)	1 (2.0%)	<0.001
NUMBER OF METASTATIC SITES						<0.001
0	418 (75.6%)	191 (84.5%)	134 (74.0%)	46 (48.4%)	47 (92.2%)	
1	90 (16.3%)	26 (11.5%)	36 (19.9%)	25 (26.3%)	3 (5.9%)	
>=2	45 (8.1%)	9 (4.0%)	11 (6.1%)	24 (25.3%)	1 (2.0%)	



# Results - Metastatic Sites in Patients with Extrauterine Disease



	All pts (n=135)	NSMP (n=35)	MMRd (n=47)	p53abn (n=49)	POLE (n=4)	P value
ADNEXES	38 (28.1%)	7 (20.0%)	13 (27.7%)	17 (34.7%)	1 (25.0%)	0.53
LYMPH-NODES	85 (63.0%)	29 (82.9%)	31 (66.0%)	22 (44.9%)	3 (75.0%)	0.004
PERITONEAL	48 (35.6%)	10 (28.6%)	11 (23.4%)	27 (55.1%)	0	0.003
OMENTAL	28 (20.7%)	5 (14.3%)	4 (8.5%)	19 (38.8%)	0	0.001
SYSTEMIC	13 (9.6%)	1 (2.9%)	3 (6.4%)	8 (16.3%)	1 (25.0%)	0.11
NUMBER OF METASTATIC SITES						0.036
1	90 (66.7%)	26 (74.3%)	36 (76.6%)	25 (51.0%)	3 (75.0%)	
>=2	45 (33.3%)	9 (25.7%)	11 (23.4%)	24 (49.0%)	1 (25.0%)	

## EXTRA-UTERINE SPREAD

	UNIVARIATE	MULTIVARIABLE
AGE (in years)	1.01 (0.99-1.02) p=0.44	--
BMI (kg/m <sup>2</sup> )	1.01 (0.99-1.04) p=0.36	--
HISTOLOGY	P<0.001	-- P=0.11
Low-risk	Ref.	
High-risk	4.06 (2.69-6.13)	
GRADING	P<0.001	-- P=0.11
G1-G2	Ref.	
G3	4.01 (2.65-6.07)	
DEPTH OF MYOMETRIAL INVASION	P<0.001	P=0.008
<50%	Ref.	Ref.
>50%	5.04 (3.23-7.87)	2.14 (1.22-3.75)
LVSI	P<0.001	P<0.001
No	Ref.	Ref.
Focal	2.60 (1.33-5.09)	1.97 (0.92-4.20)
Substantial	7.22 (4.60-11.33)	5.64 (3.20-9.93)
MOLECULAR CLASS	P<0.001	P<0.001
p53abn	Ref.	Ref.
NSMP	0.17 (0.10-0.30)	0.20 (0.11-0.37)
MMRd	0.33 (0.19-0.56)	0.31 (0.16-0.56)
POLE	0.08 (0.03-0.24)	0.10 (0.03-0.34)

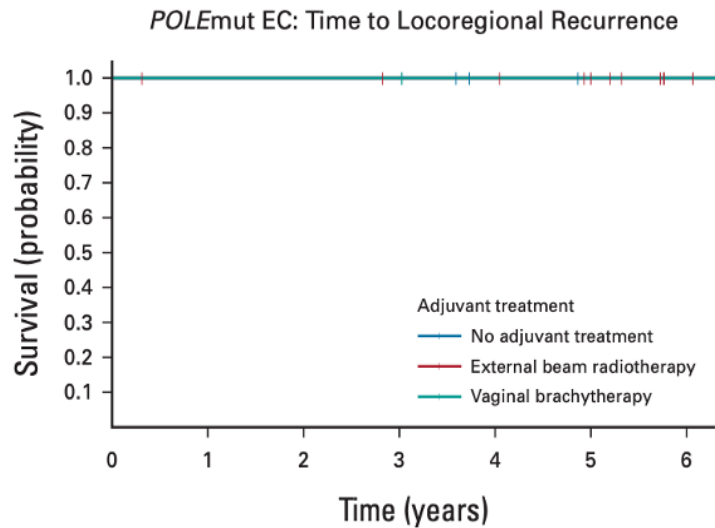
## ONLY LYMPH-NODE SPREAD

	UNIVARIATE	MULTIVARIABLE
AGE (in years)	0.99 (0.97-1.02) p=0.61	--
BMI (kg/m <sup>2</sup> )	1.01 (0.97-1.05) p=0.66	--
HISTOLOGY	P=0.01	-- P=0.95
Low-risk	Ref.	
High-risk	2.02 (1.17-3.46)	
GRADING	P=0.02	-- P=0.95
G1-G2	Ref.	
G3	1.94 (1.12-3.35)	
DEPTH OF MYOMETRIAL INVASION	P<0.001	P=0.03
<50%	Ref.	Ref.
>50%	5.38 (2.79-10.39)	2.33 (1.08-5.01)
LVSI	P<0.001	P<0.001
No	Ref.	Ref.
Focal	3.25 (1.26-8.37)	2.51 (0.92-6.84)
Substantial	7.62 (4.04-14.38)	4.99 (2.36-10.56)
MOLECULAR CLASS	P=0.27	--
p53abn	Ref.	
NSMP	0.68 (0.33-1.41)	
MMRd	0.92 (0.44-1.91)	
POLE	0.26 (0.06-1.19)	

# POLE-mutated population

## PORTEC-1/2

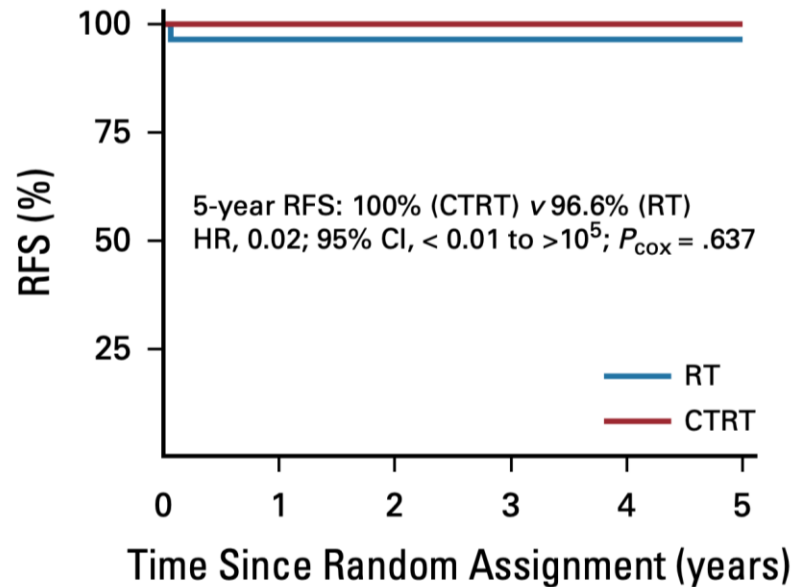
66 patients



Adjuvant treatment	NAT	EBRT	VBT
	21	35	10
	21	34	10
	21	34	10
	21	33	10
	19	33	8
	18	30	8
	18	25	8

## PORTEC-3

51 patients



No. at risk:	0	1	2	3	4	5
RT	29	28	28	28	27	23
CTRT	22	22	22	21	21	14

## Meta-analysis

*McAlpine*

109 *POLE*mut patients  
No adjuvant treatment

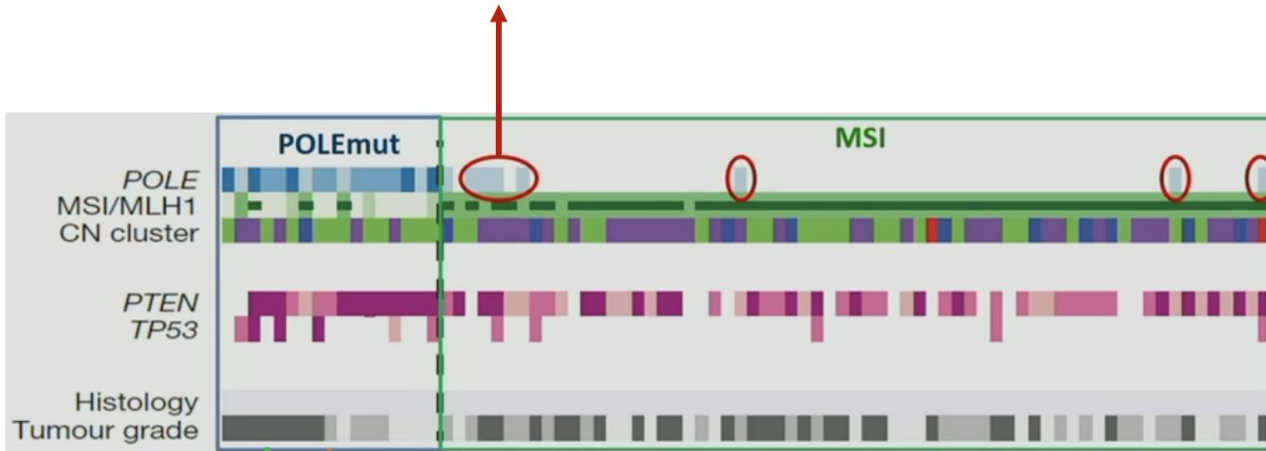
Only 3 recurrences  
(all in high-risk patients)

### LAY SUMMARY

Additional therapy (radiation and chemotherapy) does not appear to improve outcomes for women with *POLE*-mutated endometrial cancer, and this supports the move to less therapy and less associated toxicity

# POLEmut endometrial cancer

NOT all POLE variants qualify as POLEmut EC.



TRUE *POLE*mut EC carry **pathogenic mutations**:

- Inside exonuclease domain (Mutations outside exonuclease domain are non infrequent but should not be considered pathogenic and should not lead to the diagnosis of *POLE*mut EC)
- Associated with signature 10
- Associated with ultrahigh TMB (>100mut.Mb)

## *POLE*mut endometrial cancer

- Majority high grade (G3); atypia comparable to serous EC
- High levels of tumor-infiltrating lymphocytes
- High levels of tertiary lymphoid structures
- Mostly endometrioid, but present as all histological types (including dedifferentiated/undifferentiated, carcinosarcomas, serous carcinomas, and clear cell)

## IHC:

- Mutant-type p53 staining: ~25% (mostly subclonal)
- MMRd: ~2%

12 pathogenic somatic missense mutations across 11 loci within exons 9, 11, 13, and 14 of the *POLE* EDM have been internationally recognized to qualify as *POLE*mut EC

**Histology not specific enough to identify *POLE*mut EC – sequencing is required!**



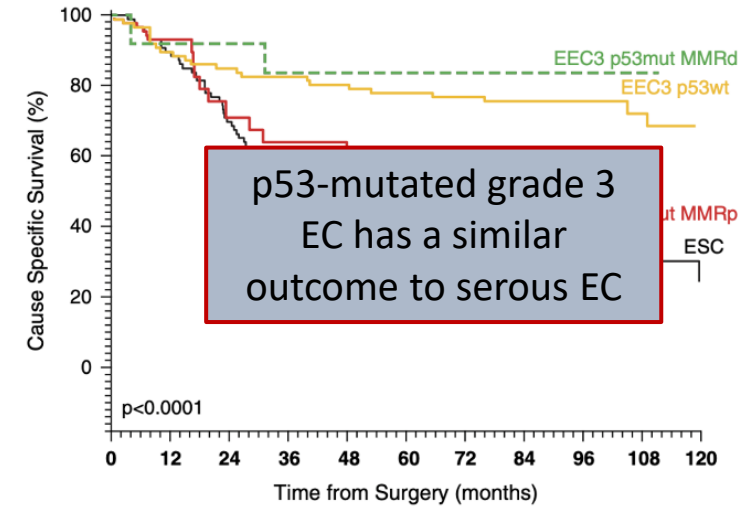
# p53abn endometrial cancers: should they all be considered “high risk”?

## Encompasses more than just serous carcinoma...

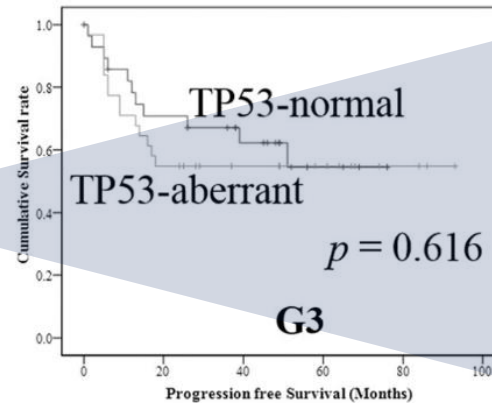
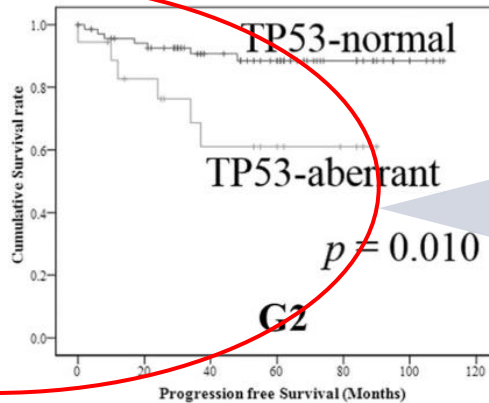
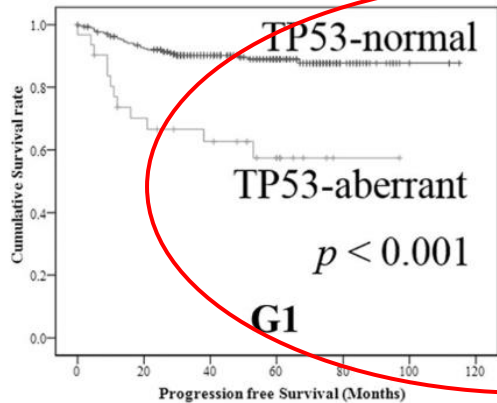
**Proportion of p53abn endometrial cancer for each histotype from published endometrial cancer cohorts which have been molecularly classified**

Histotype	Total	p53abn (n(%))
Endometrioid endometrial carcinoma grades 1–2	2515	130 (5.2)
Endometrioid endometrial carcinoma grade 3	900	199 (22.1)
Serous endometrial carcinoma	122	133(92.6)
Clear cell carcinoma	61	23 (37.7)
Carcinosarcoma	171	146 (85.4)
Total	3769	611 (16.2)

Jamieson A, et al. *Int J Gynecol Cancer*. 2021;31(6)907-913.



Brett MA, et al. *Int J Gynecol Cancer*. 2021;40(2):116-123.



### p53abn grade 1 and 2 endometrioid ECs:

- Older women
- Lower BMI
- More had advanced-stage disease, i.e., behave more like serous carcinoma
- Worse survival outcomes vs those with p53wt ECs

Yano M, et al. *Mod Pathol*. 2019;32(7):1023-1031.

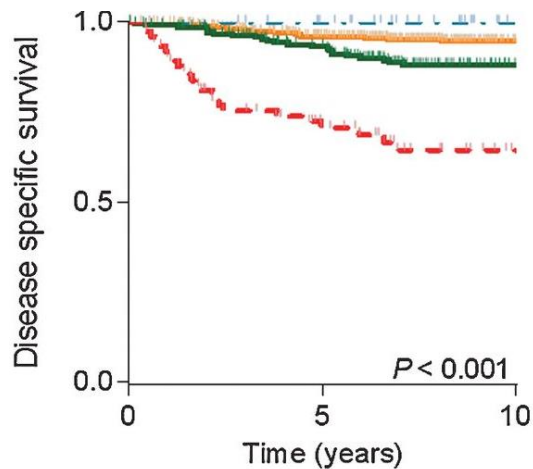
Expert pathology review of PORTEC-1/2 series confirmed presence of low-grade endometrioid p53abn ECs; not just glandular variants of serous carcinoma, and these patients had markedly worse outcomes (*Jamieson A, et al. IGCS 2022 abstract*)

# Mismatch repair protein and MLH1 methylation status as predictors of response to adjuvant therapy in endometrial cancer

## Disease-specific survival analyses for MMRd subgroup

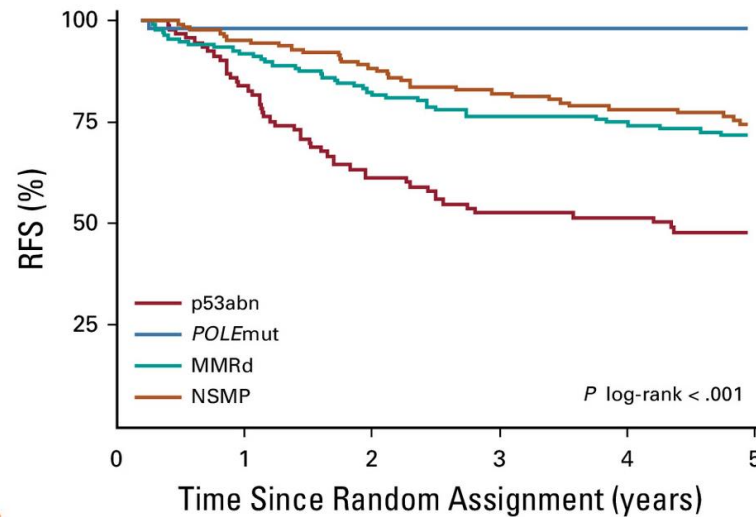
	MMR-D (n = 287)		
	N	HR (95% CI)	p
Age >65 years	180	1.4 (0.81–2.6)	0.219
Stage II–IV	81	1.4 (0.68–2.8)	0.372
Histology			0.567
Endometrioid grade 1–2	210	1	
Endometrioid grade 3	54	1.4 (0.74–2.6)	0.299
Nonendometrioid	23	1.1 (0.45–2.5)	0.908
Myometrial invasion ≥50%	120	2.2 (1.2–4.1)	0.016*
Lymphovascular space invasion	80	2.3 (1.3–4.1)	0.004**
Adjuvant therapy			0.345
None	35	1	
VBT	129	0.52 (0.15–1.8)	0.293
WPRT	47	1.3 (0.39–4.0)	0.698
Chemotherapy	10	1.8 (0.40–8.3)	0.443
Chemotherapy and VBT/ WPRT	66	1.4 (0.45–4.7)	0.538

# Different clinical outcomes of NSMP endometrial cancer



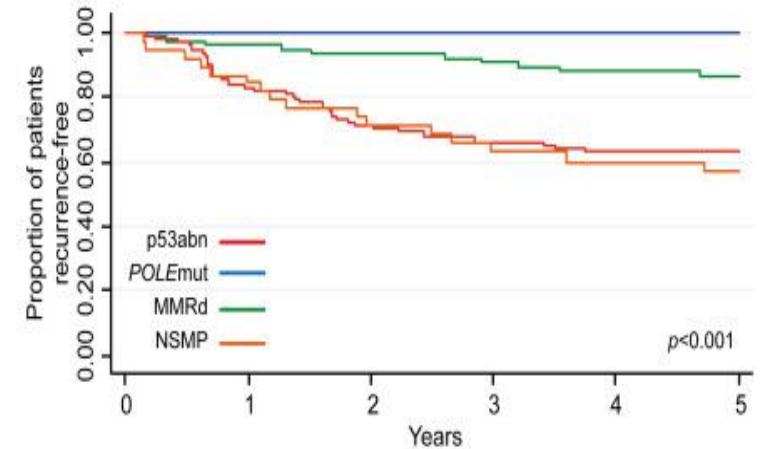
--- p53 — MSI - - - POLE — NSMP

**PORTEC 1/2 (n= 834)**  
Stello et al., CCR 2016



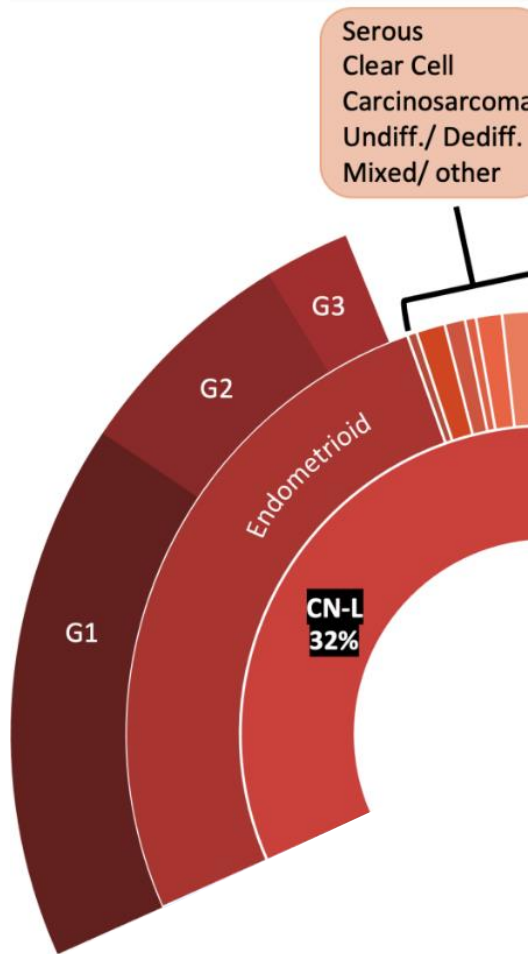
**PORTEC- 3 (n= 410)**  
León-Castillo et al., JCO 2020

NSMP (n=129) patients  
with EC had an  
***intermediate outcome***  
**5-year RFS: 74.4%**

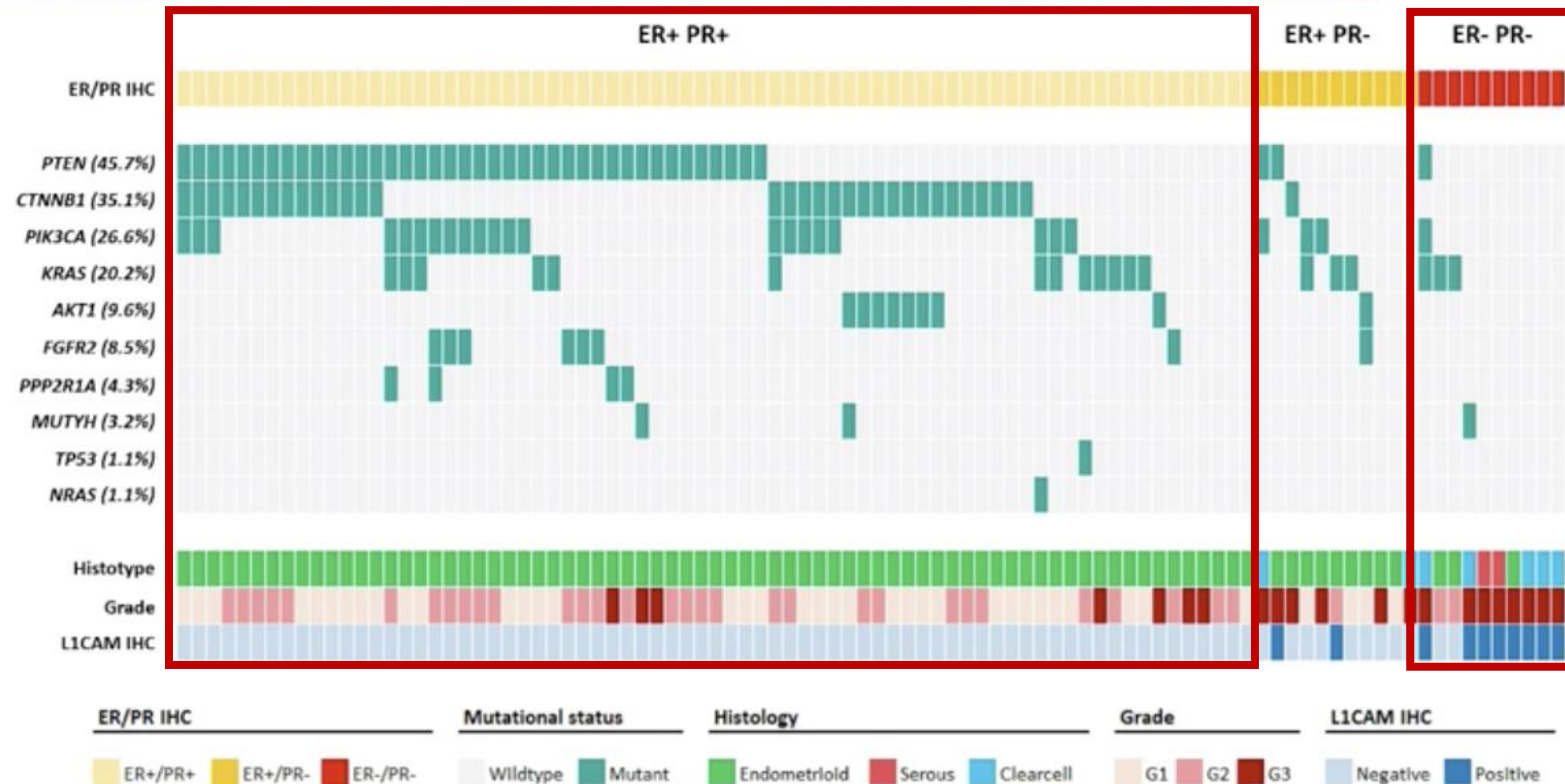


**High-grade EC (n=251)**  
León-Castillo ESGO 2021

# Characteristics of patients with NSMP endometrial cancer



## Molecular landscape of NSMP HREC (n=94)



### I. NSMP HREC – ER + / PR +

- Frequent mutations in *PTEN*, *CTNNB1*, *PIK3CA* and *KRAS*
- **Favourable** characteristics: low grade, endometrioid, L1CAM-negative

### II. NSMP HREC – ER - / PR -

- Relatively few somatic mutations
- **Unfavourable** characteristics: high grade, non-endometrioid, L1CAM-positive

HREC, high-risk endometrial cancer.

Rios-Doria E, et al. *Gynecol Oncol.* 2022;166(Suppl 1):S57-S58 [Abstract 084];

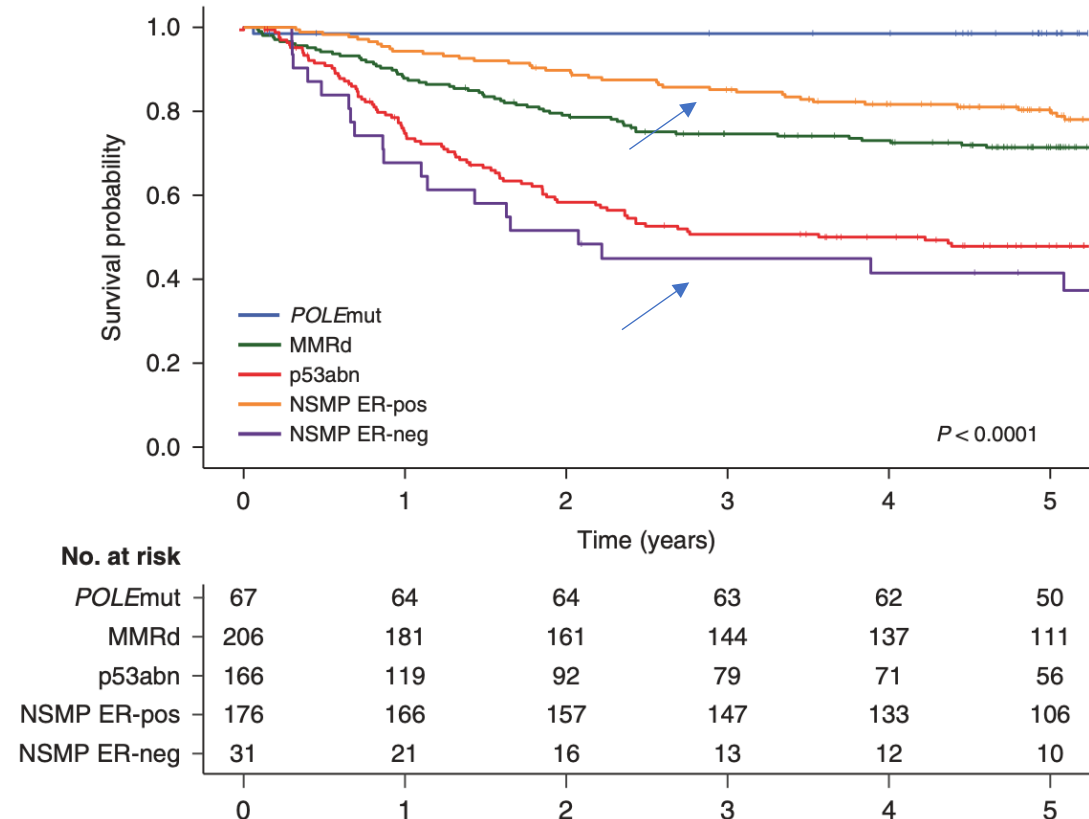
Vermij L, et al. *Int J Gynecol Cancer.* 2021;31(Suppl 3):A89-A90 [Abstract 397];

Rios-Doria E, et al. *Gynecol Oncol.* 2023;174:262-272..

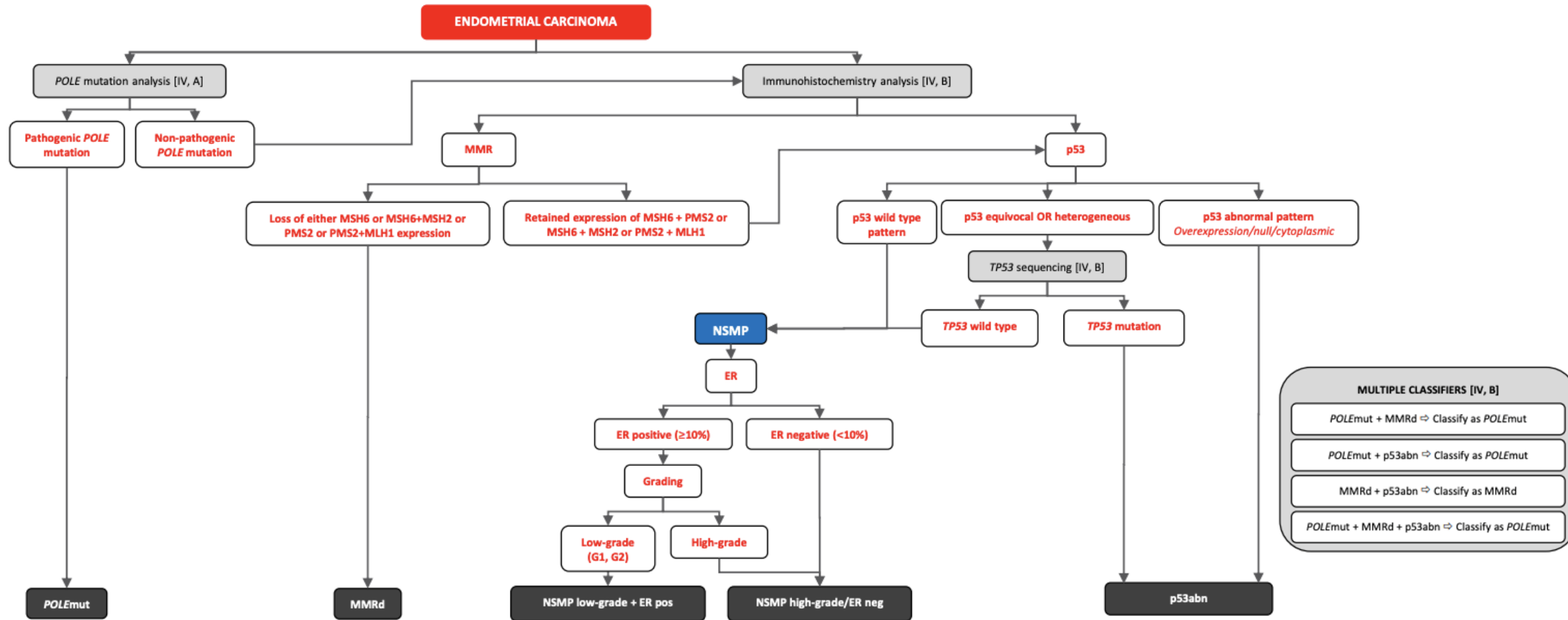


# Role of other factors: ER, L1CAM, CTNNB1

- N=648 patients with molecularly classified high-risk EC from the PORTEC-3 trial and an independent prospective cohort
- Age, stage, and adjuvant chemotherapy had an independent impact on risk of recurrence
- No *independent* prognostic value of ER, PR, L1CAM, and CTNNB1
- In **NSMP cancers**, ER positivity was independently and strongly associated with a reduced risk of recurrence (HR 0.33, 95% CI 0.15-0.75)

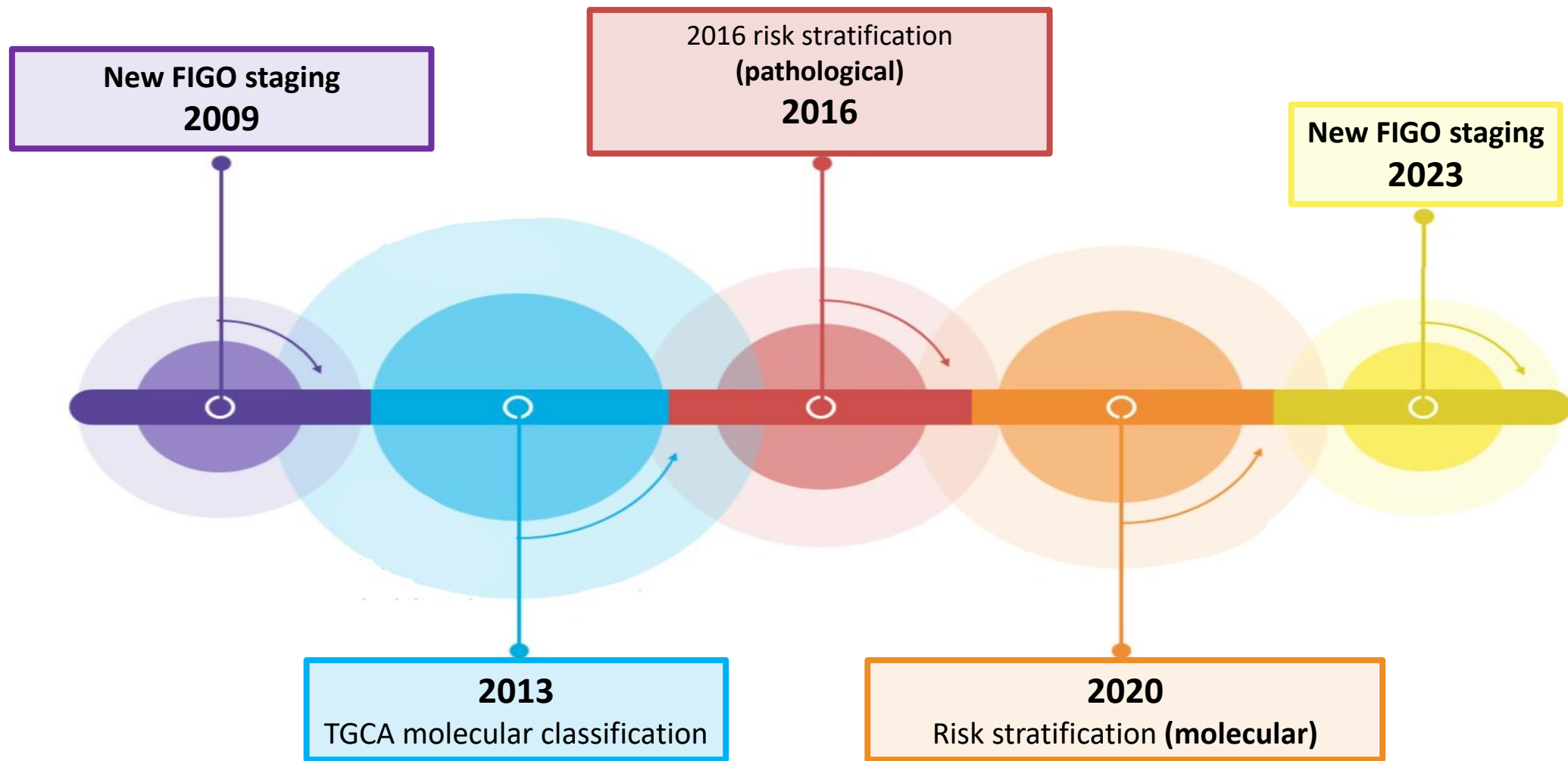


# Assessment of molecular classification



## Testing strategy recommendations

- IHC for MMR proteins (2 antibody approach), ER, p53 on all cases on biopsy/curettage
- POLEmut on all cases; at least on high grade, low stage carcinomas or if adjuvant therapy planned
- Molecular analysis for p53 (NGS) and MSI if IHC is equivocal
- HER2 testing for all p53abn/TP53mut carcinomas



# Endometrial cancer 2009 FIGO staging system

Stage I*	Tumor confined to the corpus uteri
IA*	No or less than half myometrial invasion
IB*	Invasion equal to or more than half of the myometrium
Stage II*	Tumor invades cervical stroma, but does not extend beyond the uterus**
Stage III*	Local and/or regional spread of the tumor
IIIA*	Tumor invades the serosa of the corpus uteri and/or adnexae <sup>#</sup>
IIIB*	Vaginal and/or parametrial involvement <sup>#</sup>
IIIC*	Metastases to pelvic and/or para-aortic lymph nodes <sup>#</sup>
IIIC1*	Positive pelvic nodes
IIIC2*	Positive para-aortic lymph nodes with or without positive pelvic lymph nodes
Stage IV*	Tumor invades bladder and/or bowel mucosa, and/or distant metastases
IVA*	Tumor invasion of bladder and/or bowel mucosa
IVB*	Distant metastases, including intra-abdominal metastases and/or inguinal lymph nodes

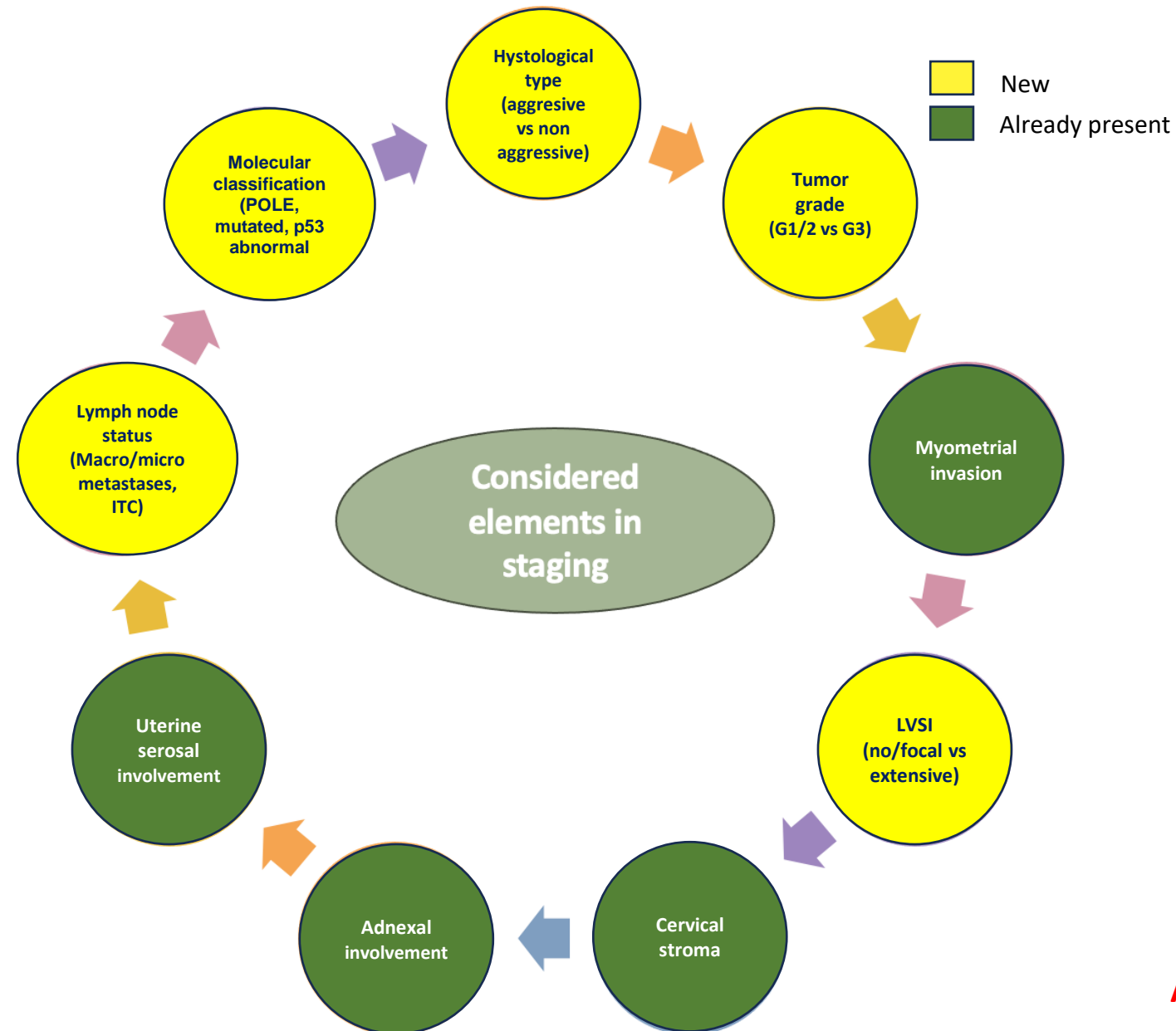
\*Either G1, G2, or G3.

\*\*Endocervical glandular involvement only should be considered as Stage I and no longer as Stage II.

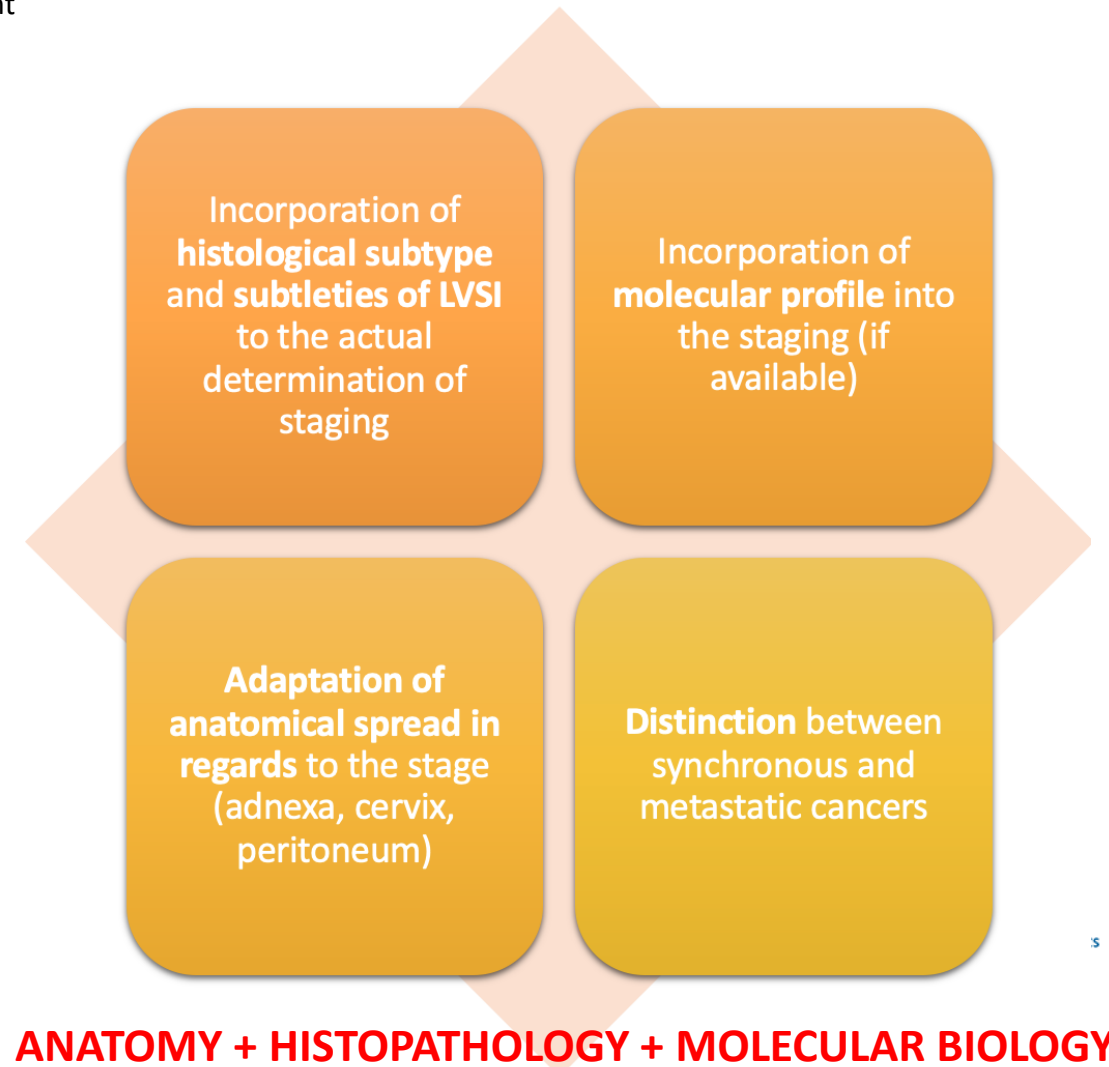
<sup>#</sup>Positive cytology has to be reported separately without changing the stage.



# FIGO staging of endometrial cancer: 2023



## KEY CHANGES



# FIGO Endometrial cancer staging system over years

	FIGO 1988	FIGO 2009	FIGO 2023
Stage I	Tumor confined to the uterine corpus	Tumor confined to the uterine corpus	Tumor confined to the uterine corpus and ovary
Stage IA	Confined to the endometrium	MI < 50%	Confined to the endometrium OR non-aggressive histological type with MI < 50% with no substantial LVSI OR good prognosis disease
Stage IA1	-	-	Non-aggressive histological type confined to the endometrium or limited to a polyp
Stage IA2	-	-	Non-aggressive histological type with MI < 50% with no substantial LVSI
Stage IA3	-	-	Low grade endometrioid EC limited to the uterine corpus and ovary
Stage IA <sub>m</sub> <small>POLE MUT</small>	-	-	POLE mut EC, confined to the uterus, regardless histology and degree of LVSI
Stage IB	MI < 50%	MI ≥ 50%	Non-aggressive histological type with MI ≥ 50%, with no extensive LVSI
Stage IC	MI ≥ 50%	-	Aggressive histological type confined to the endometrium or limited to a polyp
Stage II	Cervical involvement	Cervical involvement (only stroma)	Non-aggressive histological type with substantial LVSI
Stage IIA	Epithelial invasion	-	Non-aggressive histological type with cervical stromal involvement
Stage IIB	Stromal invasion	-	Non-aggressive histological type with substantial LVSI
Stage IIC	-	-	Aggressive histological type with any myometrial involvement
Stage IIC <sub>m</sub> <small>p53<sub>abn</sub></small>	-	-	p53 abn EC, confined to the uterus, regardless of histology and degree of LVSI
Stage III	Local/regional spread	Local/regional spread	Local/regional spread
Stage IIIA	Serous of the corpus uteri and/or adnexa and/or malignant cytology	Serous of the corpus uteri and/or adnexa	Serous of the corpus uteri and/or adnexa
Stage IIIA1	-	-	Adnexal involvement (except when meeting stage IA3 criteria)
Stage IIIA2	-	-	Subserosa or serosal involvement
Stage IIIB	Vaginal involvement	Vaginal and/or parametrial involvement	Vaginal and/or parametrial and/or pelvic peritoneum involvement
Stage IIIB1	-	-	Vaginal and/or parametrial involvement
Stage IIIB2	-	-	Pelvic peritoneum involvement
Stage IIIC	Positive pelvic and/or para-aortic nodes	Positive pelvic and/or para-aortic nodes	Positive pelvic and/or para-aortic nodes
Stage IIIC1	-	Positive pelvic nodes	Positive pelvic nodes
Stage IIIC1i	-	-	Positive pelvic nodes (micrometastasis)
Stage IIIC1ii	-	-	Positive pelvic nodes (macrometastases)
Stage IIIC2	-	Positive para-aortic nodes	Positive para-aortic nodes (up to the renal vessels)
Stage IIIC2i	-	-	Positive para-aortic nodes (micrometastasis)
Stage IIIC2ii	-	-	Positive para-aortic nodes (macrometastases)
Stage IV	Tumor invades bladder and/or bowel mucosa and/or distant metastases	Tumor invades bladder and/or bowel mucosa and/or distant metastases	Tumor invades bladder and/or bowel mucosa and/or distant metastases
Stage IVA	Tumor invades bladder and/or bowel mucosa	Tumor invades bladder and/or bowel mucosa	Tumor invades bladder and/or bowel mucosa
Stage IVB	Distant metastases (including intra-abdominal metastases and inguinal nodes)	Distant metastases (including intra-abdominal metastases and inguinal nodes)	Abdominal peritoneal (extra-pelvic) metastases
Stage IVC	-	-	Distant metastasis, including extra- and intra-abdominal nodes above the renal vessels, lungs, liver, and other organs

Note: EC, endometrial cancer; MI, myometrial invasion; LVSI, lymphovascular space invasion; POLE mut, POLE mutation; p53 abn, p52 abnormality.

# FIGO 2023

Stage I	Tumor confined to the uterine corpus and ovary
Stage IA	Confined to the endometrium OR non-aggressive histological type with MI < 50% with no substantial LVSI OR good prognosis disease
Stage IA1	Non-aggressive histological type confined to the endometrium or limited to a polyp
Stage IA2	Non-aggressive histological type with MI < 50% with no substantial LVSI
Stage IA3	Low grade endometrioid EC limited to the uterine corpus and ovary
Stage IA <sub>m</sub> <small>POLE MUT</small>	POLE mut EC, confined to the uterus, regardless histology and degree of LVSI
Stage IB	Non-aggressive histological type with MI ≥ 50%, with no extensive LVSI
Stage IC	Aggressive histological type confined to the endometrium or limited to a polyp
Stage II	Non-aggressive histological type with substantial LVSI
Stage IIA	Non-aggressive histological type with cervical stromal involvement
Stage IIB	Non-aggressive histological type with substantial LVSI
Stage IIC	Aggressive histological type with any myometrial involvement
Stage IIC <sub>m</sub> p53 <sub>abn</sub>	p53 abn EC, confined to the uterus, regardless of histology and degree of LVSI
Stage III	Local/regional spread
Stage IIIA	Serous of the corpus uteri and/or adnexa
Stage IIIA1	Adnexal involvement (except when meeting stage IA3 criteria)
Stage IIIA2	Subserosa or serosal involvement
Stage IIIB	Vaginal and/or parametrial and/or pelvic peritoneum involvement
Stage IIIB1	Vaginal and/or parametrial involvement
Stage IIIB2	Pelvic peritoneum involvement
Stage IIIC	Positive pelvic and/or para-aortic nodes
Stage IIIC1	Positive pelvic nodes
Stage IIIC1i	Positive pelvic nodes (micrometastasis)
Stage IIIC1ii	Positive pelvic nodes (macrometastases)
Stage IIIC2	Positive para-aortic nodes (up to the renal vessels)
Stage IIIC2i	Positive para-aortic nodes (micrometastasis)
Stage IIIC2ii	Positive para-aortic nodes (macrometastases)
Stage IV	Tumor invades bladder and/or bowel mucosa and/or distant metastases
Stage IVA	Tumor invades bladder and/or bowel mucosa
Stage IVB	Abdominal peritoneal (extra-pelvic) metastases
Stage IVC	Distant metastasis, including extra- and intra-abdominal nodes above the renal vessels, lungs, liver, and other organs

- Incorporation of histological subtypes and LVSI

- Incorporation of molecular profile in the staging

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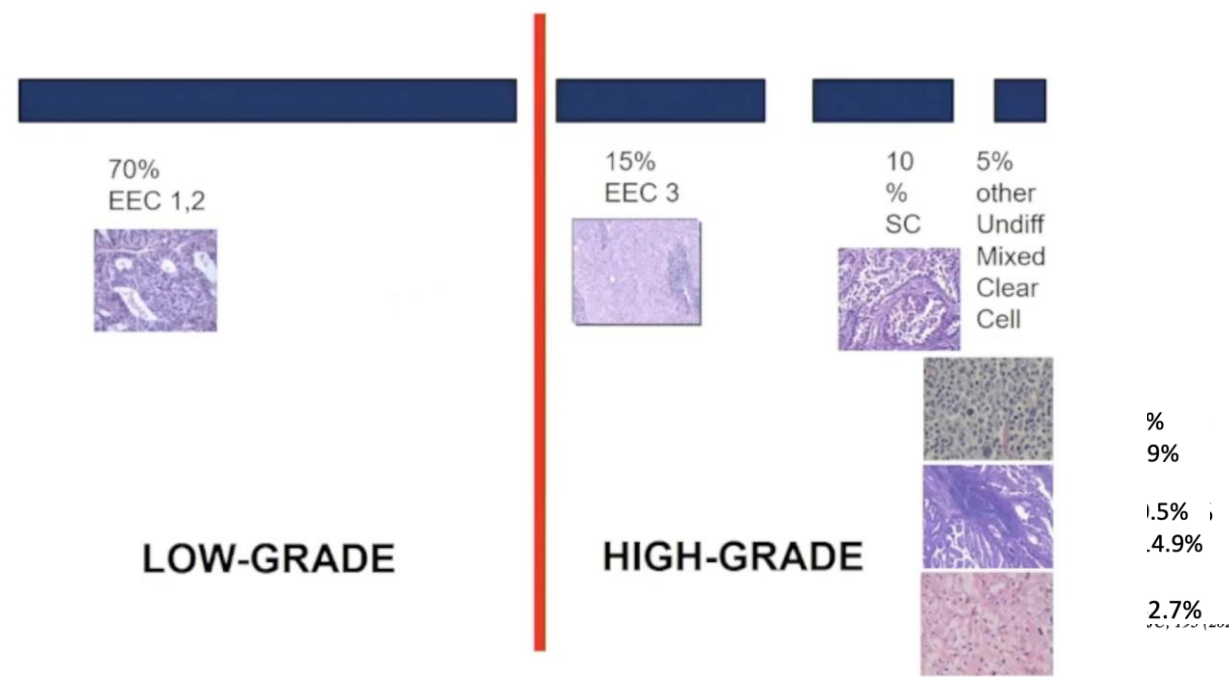
WHO, ESGO-ESTRO-ESP, CAP 2023

- Absent
- Focal (< 5 vessels)
- Substantial/extensive (> 5 vessels)

NCCN, ESMO

static  
to the  
metastasis

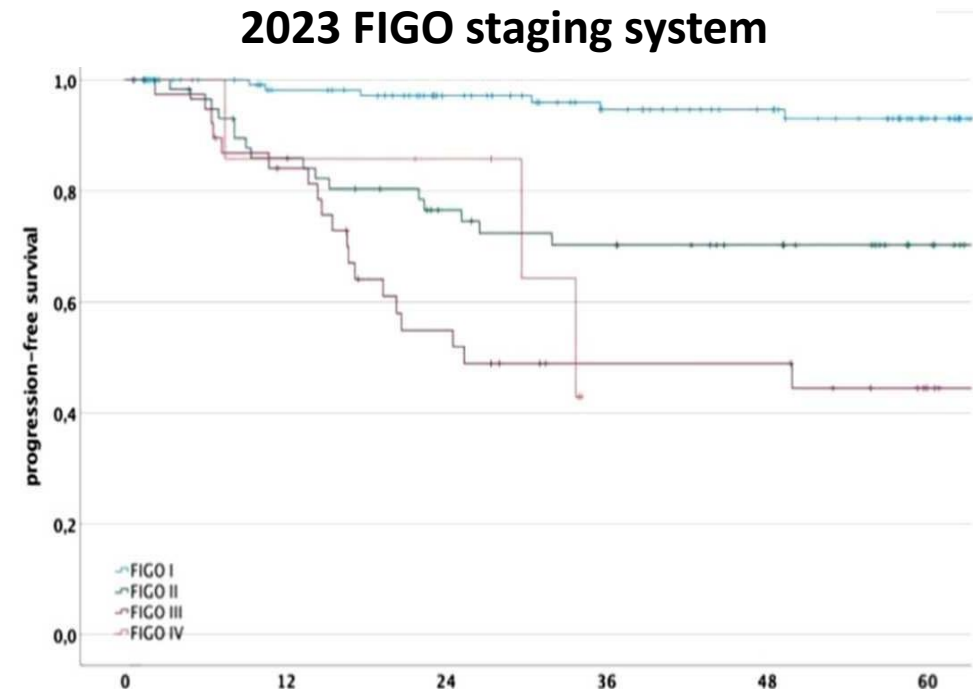
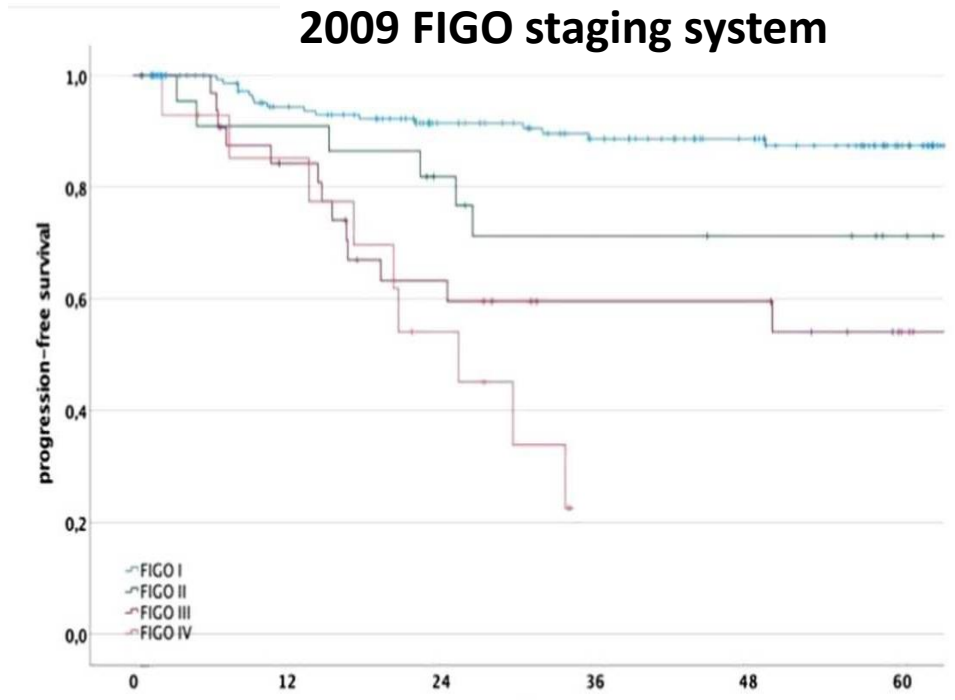
## LOW GRADE AND HIGH GRADE ENDOMETRIAL CARCINOMAS



- Ly
- M
- th
- by

# Survival according to FIGO staging system 2009 vs 2023

PFS



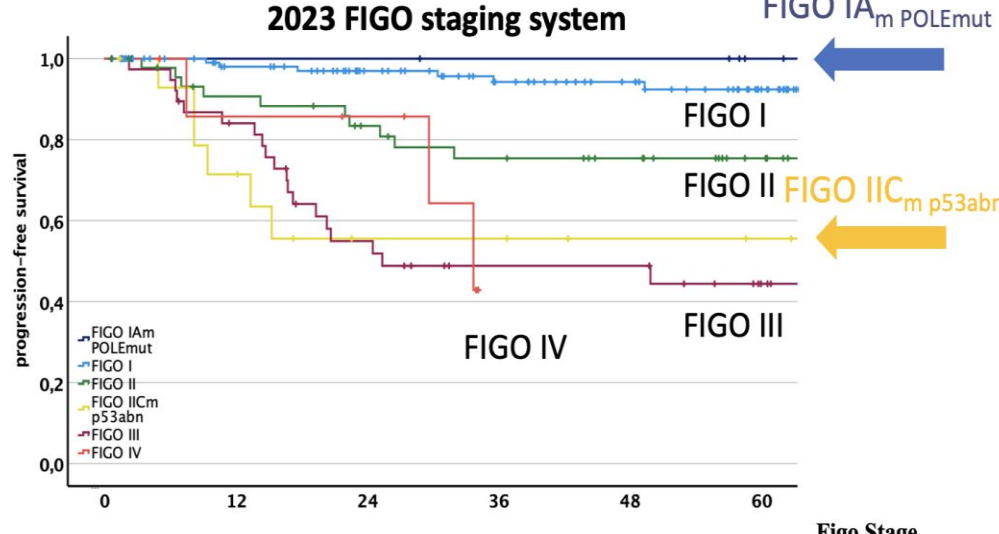
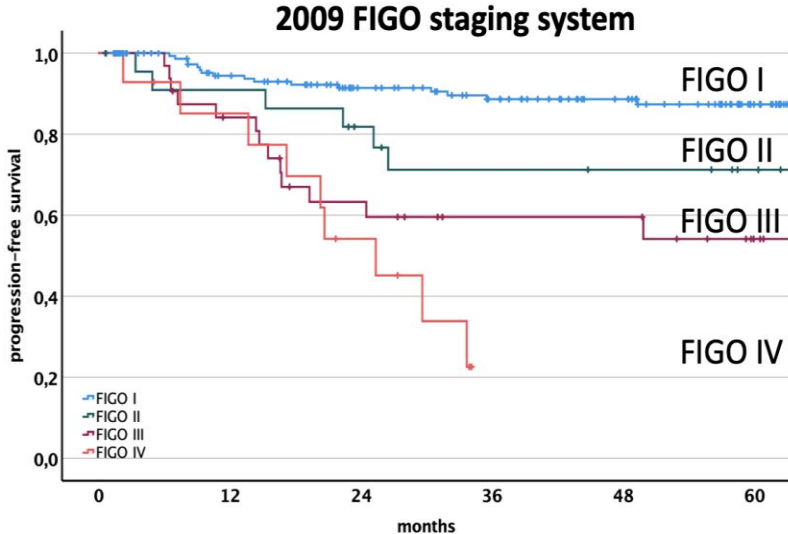
**FIGO STAGING 2023 ALLOWS FOR A MORE PRECISE 'PROGNOSTICATION' COMPARED WITH FIGO 2009 PARTICULARLY IN EARLY STAGES OF DISEASE**

	5-year PFS (FIGO 2009)	5-year PFS (FIGO 2023)
Stage I vs II	87.4% vs 71.2%	<b>93% vs 70.2%</b>
Stage I vs III	87.4% vs 54.1%	<b>93% vs 44.4%</b>



# MOLECULAR STAGING: when molecular classification CHANGES the FIGO stage

<b>Stage designation</b>	<b>Molecular findings in patients with early endometrial cancer (Stages I and II after surgical staging)</b>
Stage IA <sub>m</sub> <sub>POLEmut</sub>	POLEmut endometrial carcinoma, confined to the uterine corpus or with cervical extension, regardless of the degree of LVSI or histological type
Stage IIC <sub>m</sub> <sub>p53abn</sub>	p53abn endometrial carcinoma confined to the uterine corpus with any myometrial invasion, with or without cervical invasion, and regardless of the degree of LVSI or histological type



FIGO Stage	0	12	24	36	48	60
I	163	131	107	91	75	49
II	23	20	16	13	12	9
III	32	25	17	12	12	4
IV	14	11	6	0	0	0

FIGO Stage	0	12	24	36	48	60
IA <sub>m</sub> POLEmut	8	7	7	6	6	3
I	117	96	79	65	54	35
II	46	38	32	28	24	16
IIC <sub>m</sub> p53abn	15	10	5	5	3	2
III	38	30	18	12	12	4
IV	8	6	5	0	0	0

**Excellent prognosis**  
POLEm  
5-yr PFS 100%

**Unfavourable prognosis**  
p53 protein expression  
5-yr PFS 55.6%

Endometrial cancer: ESMO Clinical Practice Guideline for diagnosis, treatment and follow-up

A. Oaknin<sup>1</sup>, T. J. Bosse<sup>2</sup>, C. L. Creutzberg<sup>3</sup>, G. Giorelli<sup>4</sup>, P. Harter<sup>5</sup>, F. Joly<sup>6,7</sup>, D. Lorusso<sup>8,9</sup>, C. Marth<sup>10</sup>, V. Makker<sup>11,12</sup>, M. R. Mirza<sup>13</sup>, J. A. Ledermann<sup>14,15</sup> & N. Colombo<sup>16,17</sup>, on behalf of the ESMO Guidelines Committee

Risk Group	Molecular Classification Unknown	Molecular Classification Known <sup>4,*</sup>
Low	<ul style="list-style-type: none"> <li>Stage IA endometrioid + low-grade** + LVSI negative or focal</li> </ul>	<ul style="list-style-type: none"> <li>Stage I-II <b>POLEmut</b> endometrial carcinoma, no residual disease</li> <li>Stage IA <b>MMRd/NSMP</b> endometrioid carcinoma + low-grade** + LVSI negative or focal</li> </ul>
Intermediate	<ul style="list-style-type: none"> <li>Stage IB endometrioid + low-grade** + LVSI negative or focal</li> <li>Stage IA endometrioid + high-grade** + LVSI negative or focal</li> <li>Stage IA non-endometrioid (serous, clear cell, undifferentiated carcinoma, carcinosarcoma, mixed) without myometrial invasion</li> </ul>	<ul style="list-style-type: none"> <li>Stage IB <b>MMRd/NSMP</b> endometrioid carcinoma + low-grade** + LVSI negative or focal</li> <li>Stage IA <b>MMRd/NSMP</b> endometrioid carcinoma + high-grade** + LVSI negative or focal</li> <li>Stage IA <b>p53abn</b> and/or non-endometrioid (serous, clear cell, undifferentiated carcinoma, carcinosarcoma, mixed) without myometrial invasion</li> </ul>
High-intermediate	<ul style="list-style-type: none"> <li>Stage I endometrioid + substantial LVSI, regardless of grade and depth of invasion</li> <li>Stage IB endometrioid high-grade** + LVSI status</li> <li>Stage II</li> </ul>	<ul style="list-style-type: none"> <li>Stage I <b>MMRd/NSMP</b> endometrioid carcinoma + substantial LVSI, regardless of grade and depth of invasion</li> <li>Stage IB <b>MMRd/NSMP</b> endometrioid carcinoma high-grade**, regardless of LVSI status</li> <li>Stage II <b>MMRd/NSMP</b> endometrioid carcinoma</li> </ul>
High	<ul style="list-style-type: none"> <li>Stage III-IVA with no residual disease</li> <li>Stage I-IVA non-endometrioid (serous, clear cell, undifferentiated carcinoma, carcinosarcoma, mixed) with myometrial invasion, and with no residual disease</li> </ul>	<ul style="list-style-type: none"> <li>Stage III-IVA <b>MMRd/NSMP</b> endometrioid carcinoma with no residual disease</li> <li>Stage I-IVA <b>p53abn</b> endometrial carcinoma with myometrial invasion, with no residual disease</li> <li>Stage I-IVA <b>NSMP/MMRd</b> serous, undifferentiated carcinoma, carcinosarcoma with myometrial invasion, with no residual disease</li> </ul>
Advanced Metastatic	<ul style="list-style-type: none"> <li>Stage III-IVA with residual disease</li> <li>Stage IVB</li> </ul>	<ul style="list-style-type: none"> <li>Stage III-IVA with residual disease of any molecular type</li> <li>Stage IVB of any molecular type</li> </ul>

Table 2. EC risk groups






Risk group	Description <sup>a</sup>
Low risk	Stage IA (G1-G2) with endometrioid type (dMMR <sup>b</sup> and NSMP) and no or focal LVSI Stage I/II <b>POLEmut</b> cancer; for stage III <b>POLEmut</b> cancers <sup>c</sup>
Intermediate risk	Stage IA G3 with endometrioid type (dMMR and NSMP) and no or focal LVSI Stage IA non-endometrioid type (serous, clear-cell, undifferentiated carcinoma, carcinosarcoma, mixed) and/or p53-abn cancers without myometrial invasion and no or focal LVSI Stage IB (G1-G2) with endometrioid type (dMMR and NSMP) and no or focal LVSI Stage II G1 endometrioid type (dMMR and NSMP) and no or focal LVSI
High-intermediate risk	Stage I endometrioid type (dMMR and NSMP) any grade and any depth of invasion with substantial LVSI Stage IB G3 with endometrioid type (dMMR and NSMP) regardless of LVSI Stage II G1 endometrioid type (dMMR and NSMP) with substantial LVSI Stage II G2-G3 endometrioid type (dMMR and NSMP)
High risk	All stages and all histologies with p53-abn and myometrial invasion All stages with serous or undifferentiated carcinoma including carcinosarcoma with myometrial invasion All stage III and IVA with no residual tumour, regardless of histology and regardless of molecular subtype <sup>b</sup>

Less data in the ADVANCED stage for POLE; unable to advice; clincial trial or data collection when possible



2023 FIGO staging <sup>†</sup>			Molecular classification*					
			<i>POLE</i> mut	MMRd	NSMP low-grade+ERpos	NSMP high-grade/ERneg**	p53abn	
<b>I</b>	<b>Confined to the uterine corpus</b>							
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#	IAm <i>POLE</i> mut			**		
IB		Low-grade endometrioid, myoinvasion ≥50%, no/focal LVSI	IAm <i>POLE</i> mut			**	IICm p53abn	
IC		High-grade histologies <sup>‡</sup> , limited to polyp/endometrium	IAm <i>POLE</i> mut		n.a.			
<b>II</b>	<b>Confined to the uterus</b>							
IIA		Low-grade endometrioid, invasion of the cervical stroma	IAm <i>POLE</i> mut			**	IICm p53abn	
IIIB		Low-grade endometrioid, substantial LVSI***	IAm <i>POLE</i> mut			**	IICm p53abn	
IIC		High-grade histologies <sup>‡</sup> , myoinvasion	IAm <i>POLE</i> mut	Myoinvasion <50%, no/focal LVSI	n.a.		IICm p53abn	
			IAm <i>POLE</i> mut	Myoinvasion ≥50%, no/focal LVSI				
			IAm <i>POLE</i> mut	Cervical stromal invasion, no/focal LVSI				
			IAm <i>POLE</i> mut	Substantial LVSI**				
<b>III</b>	<b>Local and/or regional spread</b>							
IIIA	IIIA1	Spread to ovary or fallopian tube (except when meeting stage IA3 criteria)						
	IIIA2	Involvement of uterine subserosa or spread through the uterine serosa						
IIIB	IIIB1	Metastasis or direct spread to the vagina and/or the parametria						
	IIIB2	Metastasis to the pelvic peritoneum						
IIIC	IIIC1	Pelvic lymph node metastasis						
	IIIC1i	Micrometastasis						
		Macrometastasis						
	IIIC2	Para-aortic lymph node metastasis (up to renal vessels)						
	IIIC2i	Micrometastasis						
		Macrometastasis						
<b>IV</b>	<b>Locally advanced and/or metastatic disease</b>							
IVA		Invasion of the mucosa and/or the intestinal mucosa						
	Metastatic disease or residual disease after surgery							
III/IVA		With residual disease						
IVB		Peritoneal metastasis beyond the pelvis						
IVC		Distant metastasis						

### Risk Groups

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

2023 FIGO stage IIC carcinomas other than p53 abnormal are not depicted in this table.

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).

\*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 *low-grade* endometrioid carcinomas of both the endometrium + ovary, only 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



# Definition of risk groups

Low			Intermediate			High-Intermediate			High			Uncertain		
2023 FIGO staging <sup>†</sup>				Molecular classification*										
				POLEmut		MMRd		NSMP low-grade+ERpos		NSMP high-grade/ERneg**		p53abn		
<b>I</b>				<b>Confined to the uterine corpus</b>										
IA	IA1	Low-grade endometrioid, limited to polyp/endometrium (no myoinvasion)		IAm POLEmut						**				
	IA2	Low-grade endometrioid, myoinvasion <50%, no/focal LVSI		IAm POLEmut						**		IICm p53abn		
	IA3	Low-grade endometrioid carcinoma of the endometrium & ovary#		IAm POLEmut						**		IICm p53abn		
IB		Low-grade endometrioid, myoinvasion ≥50%, no/focal LVSI		IAm POLEmut						**		IICm p53abn		
IC		High-grade histologies <sup>^</sup> , limited to polyp/endometrium		IAm POLEmut				n.a.						
<b>II</b>				<b>Confined to the uterus</b>										
IIA		Low-grade endometrioid, invasion of the cervical stroma		IAm POLEmut						**		IICm p53abn		
IIB		Low-grade endometrioid, substantial LVSI***		IAm POLEmut						**		IICm p53abn		
IIC		High-grade histologies <sup>^</sup> , myoinvasion		IAm POLEmut		Myoinvasion <50%, no/focal LVSI		n.a.				IICm p53abn		
				IAm POLEmut		Myoinvasion ≥50%, no/focal LVSI								
				IAm POLEmut		Cervical stromal invasion, no/focal LVSI								
				IAm POLEmut		Substantial LVSI**								



# Definition of risk groups

Low

Intermediate

High-Intermediate

High

Uncertain

2023 FIGO staging <sup>††</sup>			Molecular classification*				
			<i>POLE</i> mut	MMRd	NSMP low-grade+ERpos	NSMP high-grade/ERneg**	p53abn
<b>III</b>	<b>Local and/or regional spread</b>						
IIIA	IIIA1	Spread to ovary or fallopian tube (except when meeting stage IA3 criteria)					
	IIIA2	Involvement of uterine subserosa or spread through the uterine serosa					
IIIB	IIIB1	Metastasis or direct spread to the vagina and/or the parametria					
	IIIB2	Metastasis to the pelvic peritoneum					
IIIC	IIIC1	Pelvic lymph node metastasis					
	IIIC1i	Micrometastasis					
	IIIC1ii	Macrometastasis					
	IIIC2	Para-aortic lymph node metastasis (up to renal vessels)					
	IIIC2i	Micrometastasis					
	IIIC2ii	Macrometastasis					
<b>IV</b>	<b>Locally advanced and/or metastatic disease</b>						
IVA		Invasion of the mucosa and/or the intestinal mucosa					
	<b>Metastatic disease or residual disease after surgery</b>						
III/IVA		With residual disease					
IVB		Peritoneal metastasis beyond the pelvis					
IVC		Distant metastasis					

# Conclusions

- Endometrial carcinomas include four non-overlapping disease categories: including these into routine diagnosis improves risk stratification
- MMR proteins, ER, p53 IHC and POLE status on all cases
- Molecular classification might have influence on adjuvant treatment: POLE status for all and HER2 IHC for all p53abn/TP53mut cases
- New FIGO 2023 classification is a major step forward in identifying better **prognostic** factors for patients with EC **YES**
- New FIGO 2023 classification is a major step forward in identifying better **predictive** factors for patients with EC **MAYBE**
- Integrated molecular classification into the WHO classification, 2023 FIGO staging and multidisciplinary guidelines by ESGO-ESTRO-ESP

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# Thank you

Any questions?





