



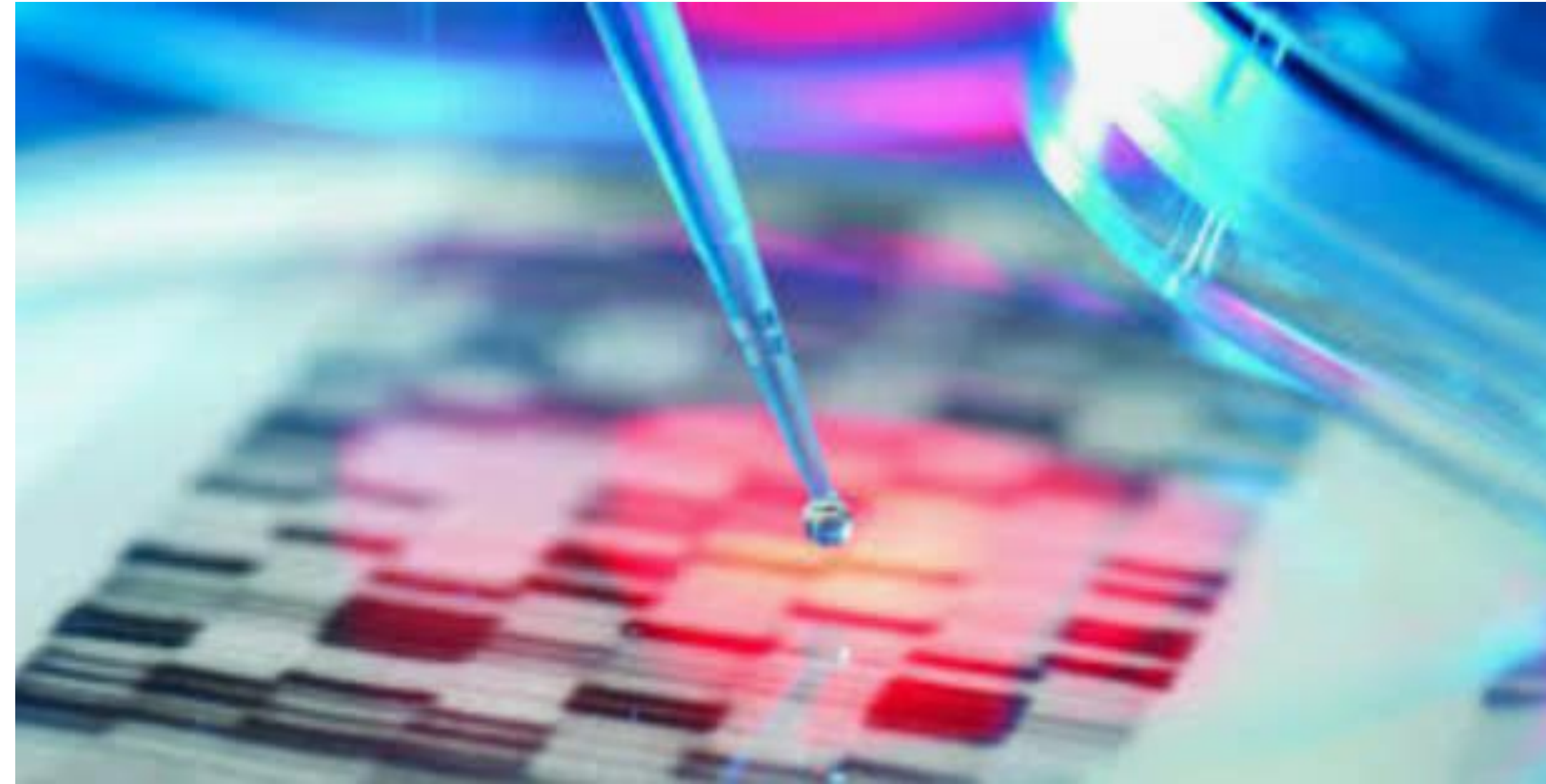
XVII^{èmes} Journées Liégeoises de Gynécologie-Obstétrique

 **Citadelle**
Gynécologie
Obstétrique

**CHU**
de Liège

 **LIÈGE**
université

Une organisation du Département de Gynécologie-Obstétrique de l'Université de Liège



CANCER ENDOMÉTRIAL : IMPLÉMENTATION CLINIQUE DU PROFIL GÉNÉTIQUE

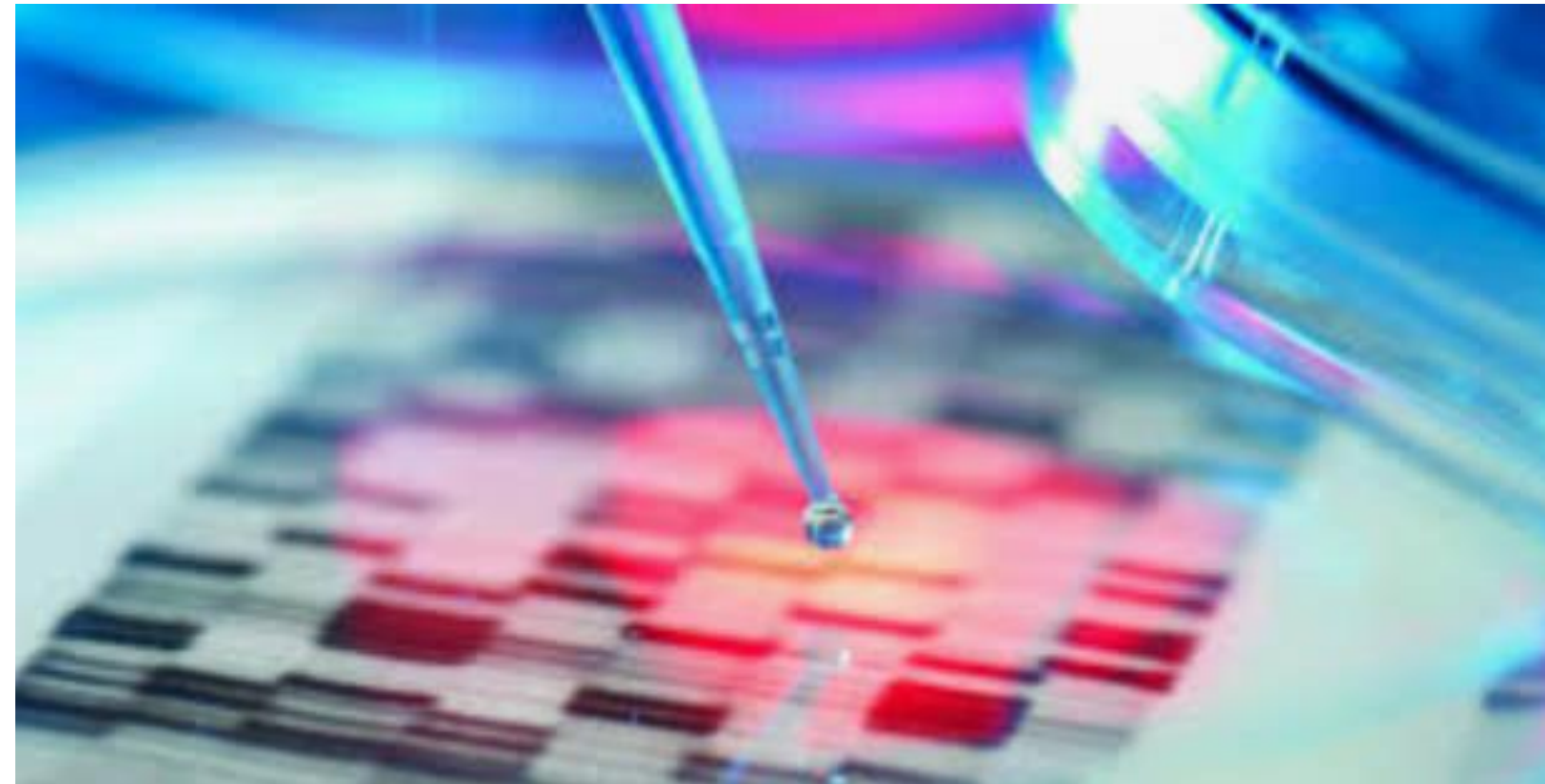
F KRIDELKA, F GOFFIN, A KAKKOS, CH GENNIGENS, E GONNE, CL PLEYERS, J HERMESSE, V BOURS,
AND K DELBEQUE.

K SEGERS

S BROUERS, V DUC, L KEMPENEER, MC LHOTE, M TYCHON AND C WILLEMS

ASS: A DHEUR, A SALMON

DEPARTMENT OF GYNECOLOGY AND OBSTETRICS - GYNE/ONCOLOGY UNIT - ULIÈGE

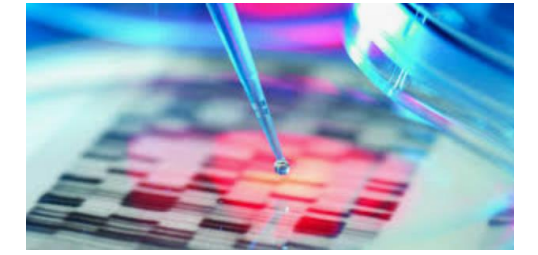


CANCER ENDOMÉTRIAL : IMPLÉMENTATION CLINIQUE DU PROFIL GÉNÉTIQUE

INTRODUCTION / RECOMMANDATIONS ACTUELLES

CRITÈRES PRONOSTICS HISTOPATHOLOGIQUES VS MOLÉCULAIRES

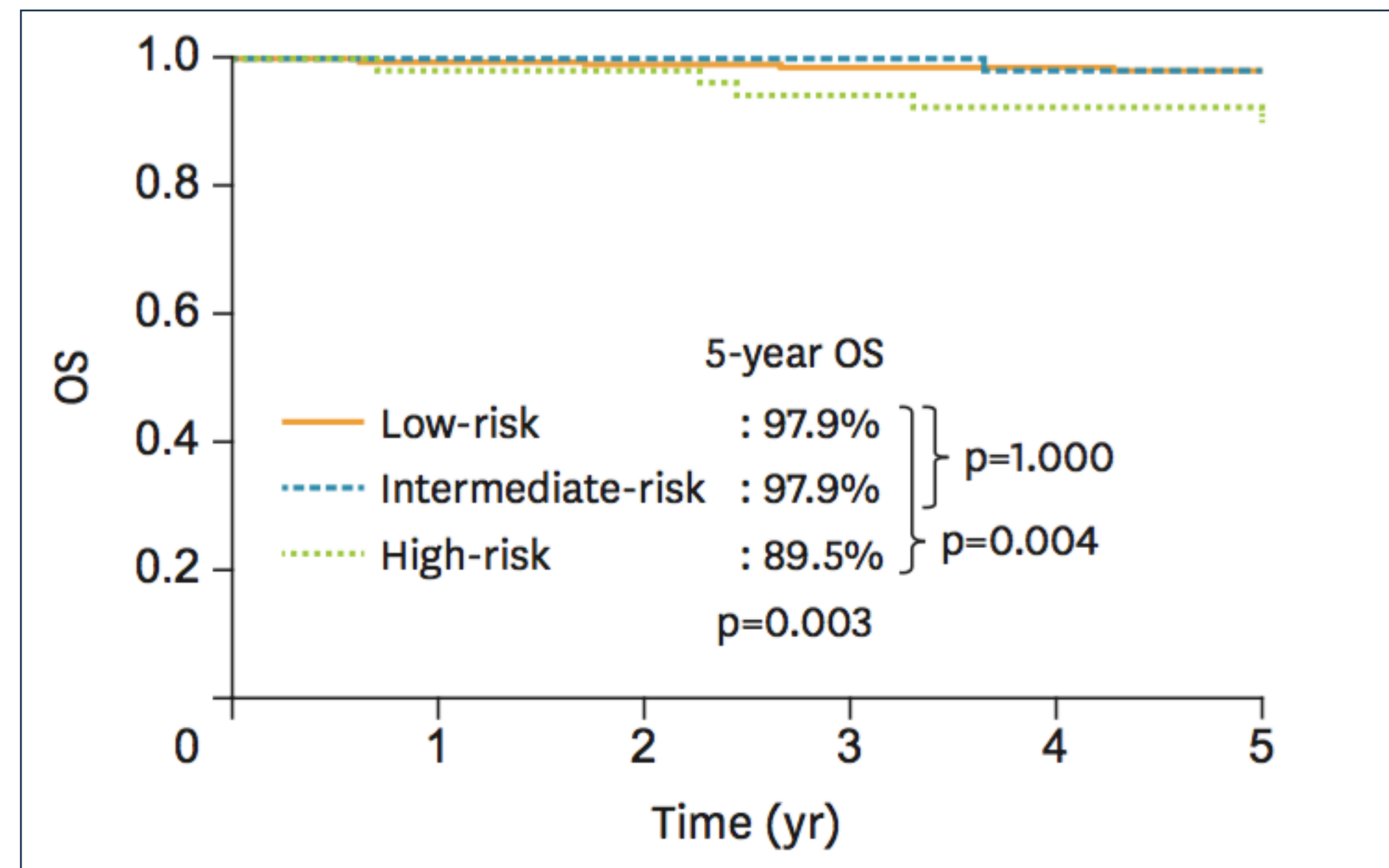
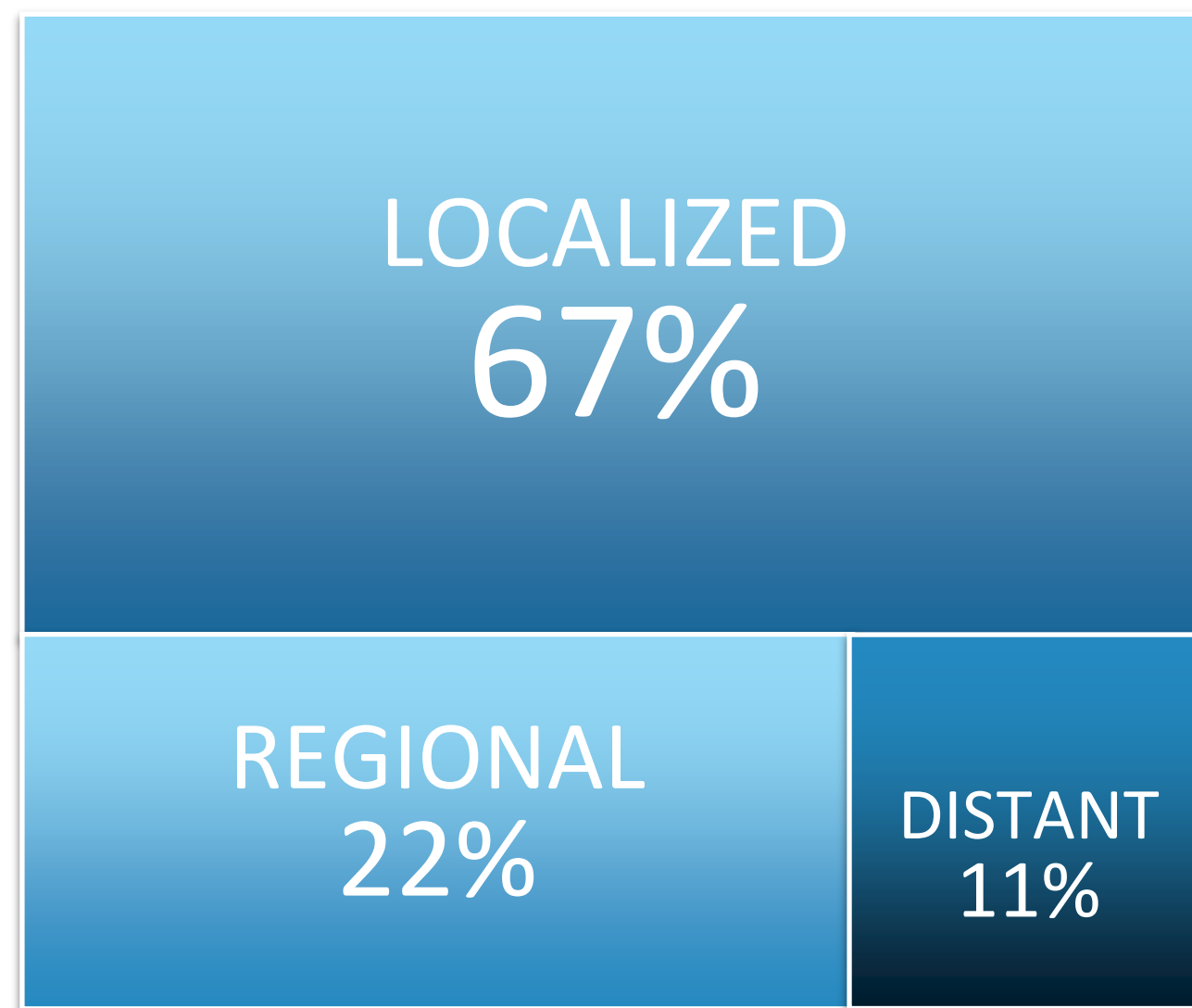
IMPLÉMENTATION CLINIQUE : PER-OP / POST-OP / RECHUTE



140000 PATIENTS

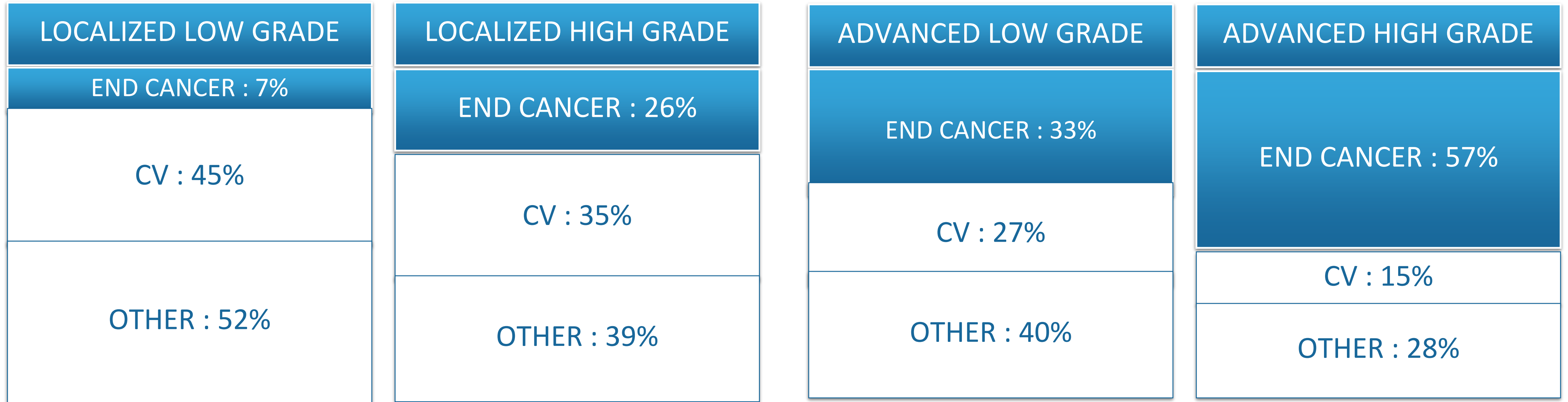
OS AFTER HRT/NODES AND NO ADJUVANT TREATMENT

SEER Data - 2008/2014

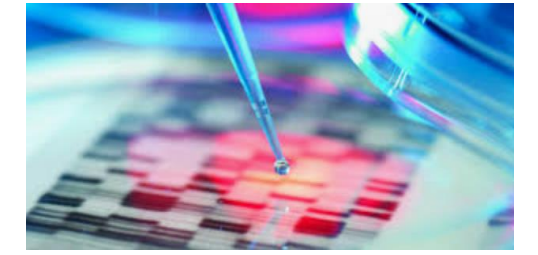




CAUSE DE DÉCÈS APRÈS EC



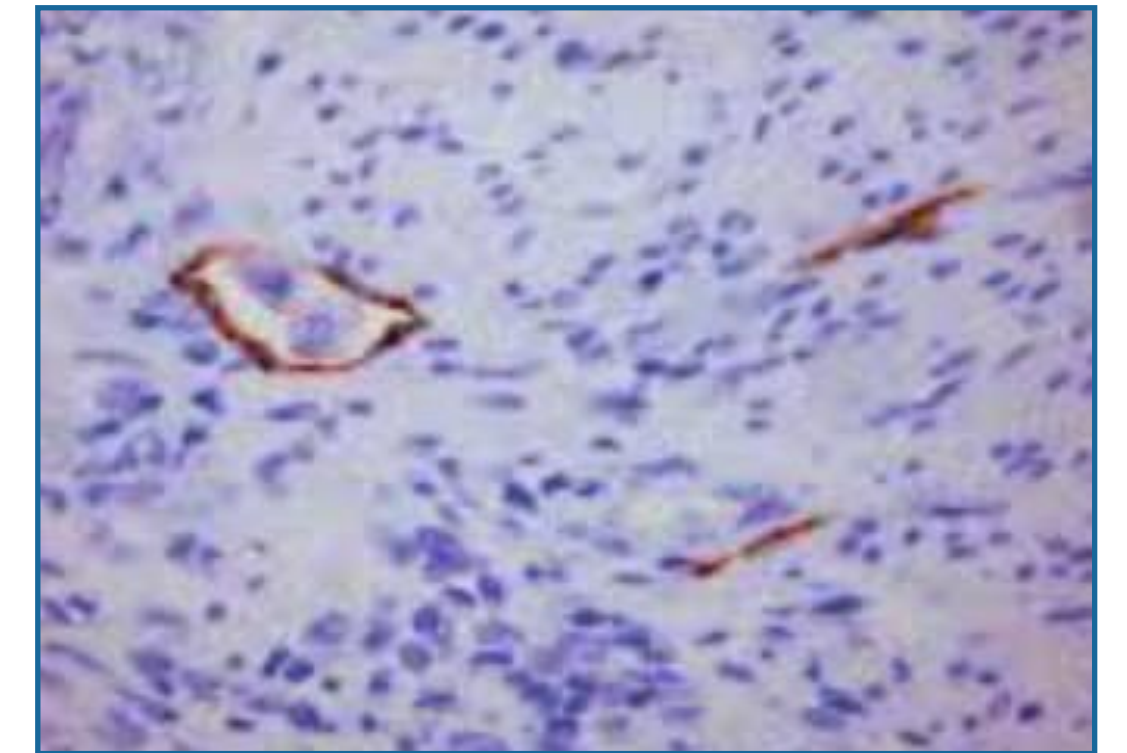
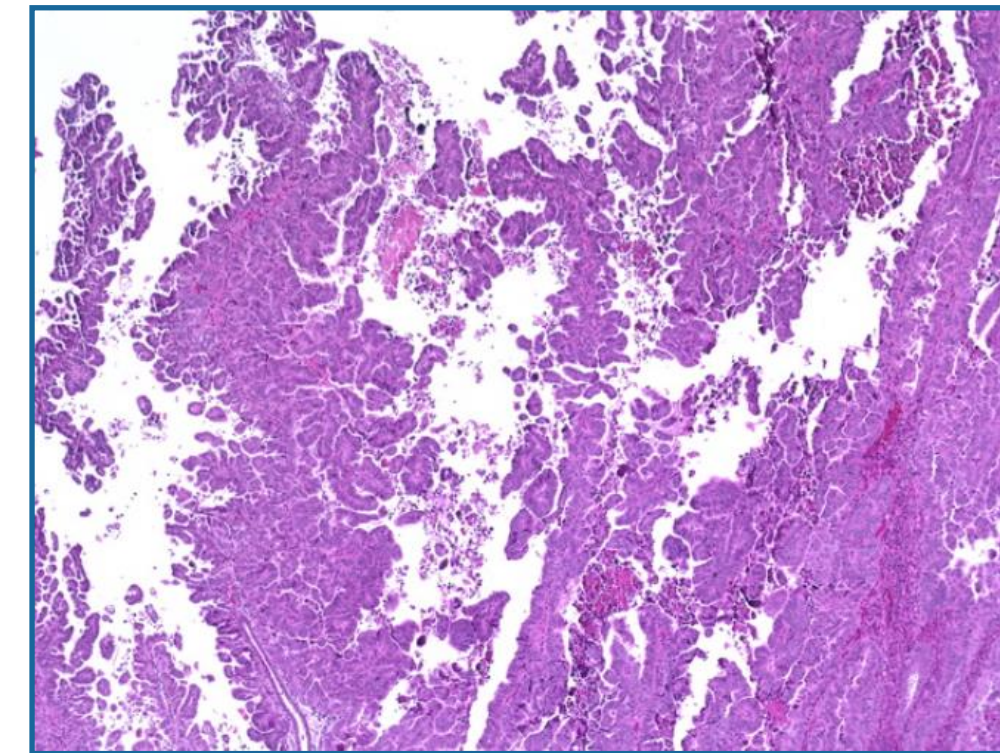
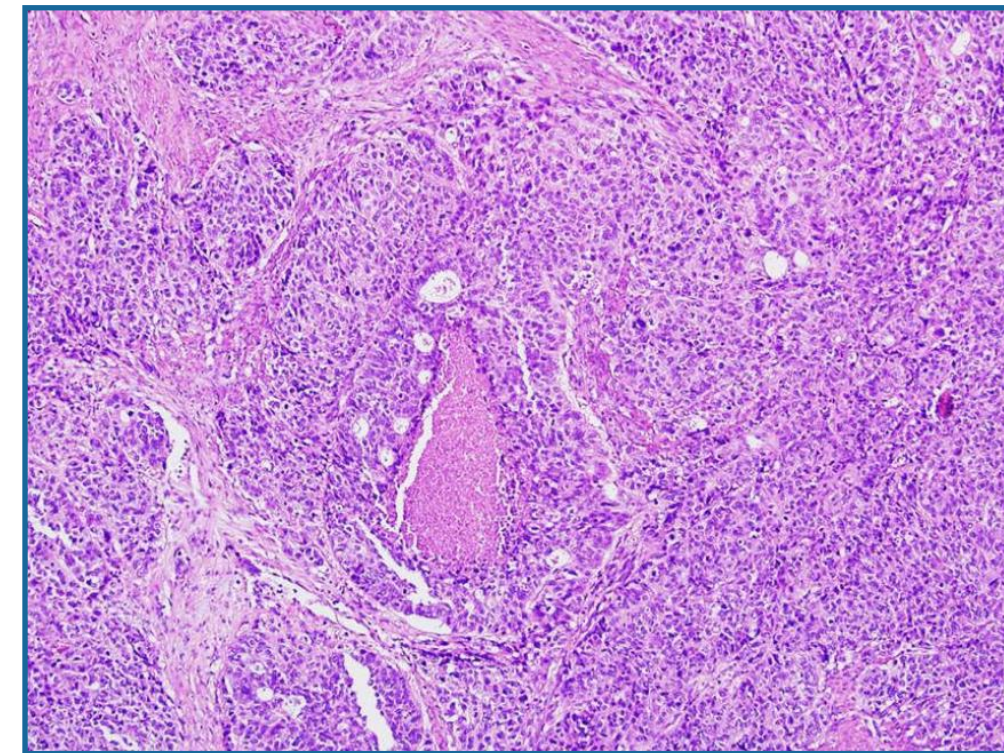
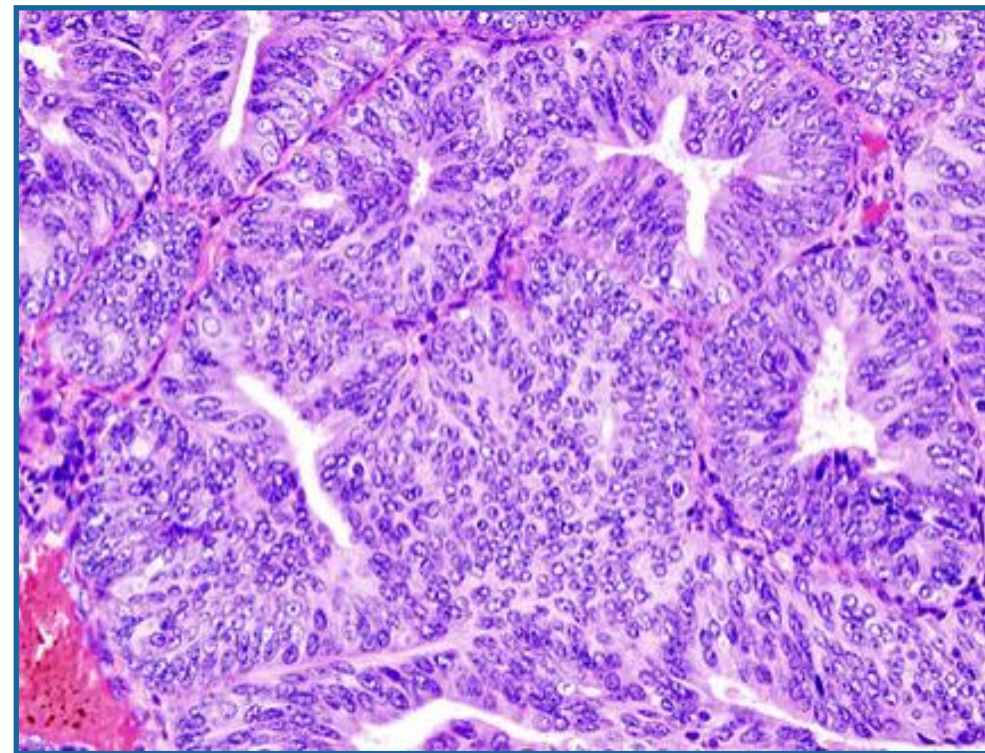
Ward et al. Gynecol Onco 2012



ST I - LR 32%	ST I - I/IHR 22%	ST I - HR 13%	HR REGIONAL 22%	DIS TANT 11%
OBSERVATION	IR OBSERVATION	ST I AND II XRT		SX RT/CT
	HIR VBT	ST III CCRT + CT WEIGH FFS BENEF / MORBIDITY		



STRATIFICATION DU RISQUE BASÉE SUR HISTOLOGIE



VARIABILITÉ INTEROBSERVATEUR ÉLEVÉE

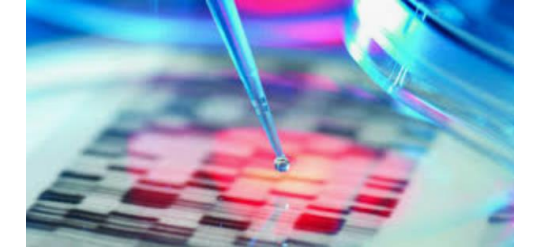
INÉLIGIBILITÉ : 24% (PORTEC 1), 14% (PORTEC 2) AND 8% (PORTEC 3)
QUANTIFICATION DES EMBOLES LYMPHOVASCULAIRES



ST I - LR 32%	ST I - I/IHR 22%	ST I - HR 13%	HR REGIONAL 22%	DIS TANT 11%
OBSERVATION	IR OBSERVATION	ST I AND II XRT		SX RT/CT
	HIR NO : VBT	ST III CCRT + CT WEIGH FFS BENEF / MORBIDITY		

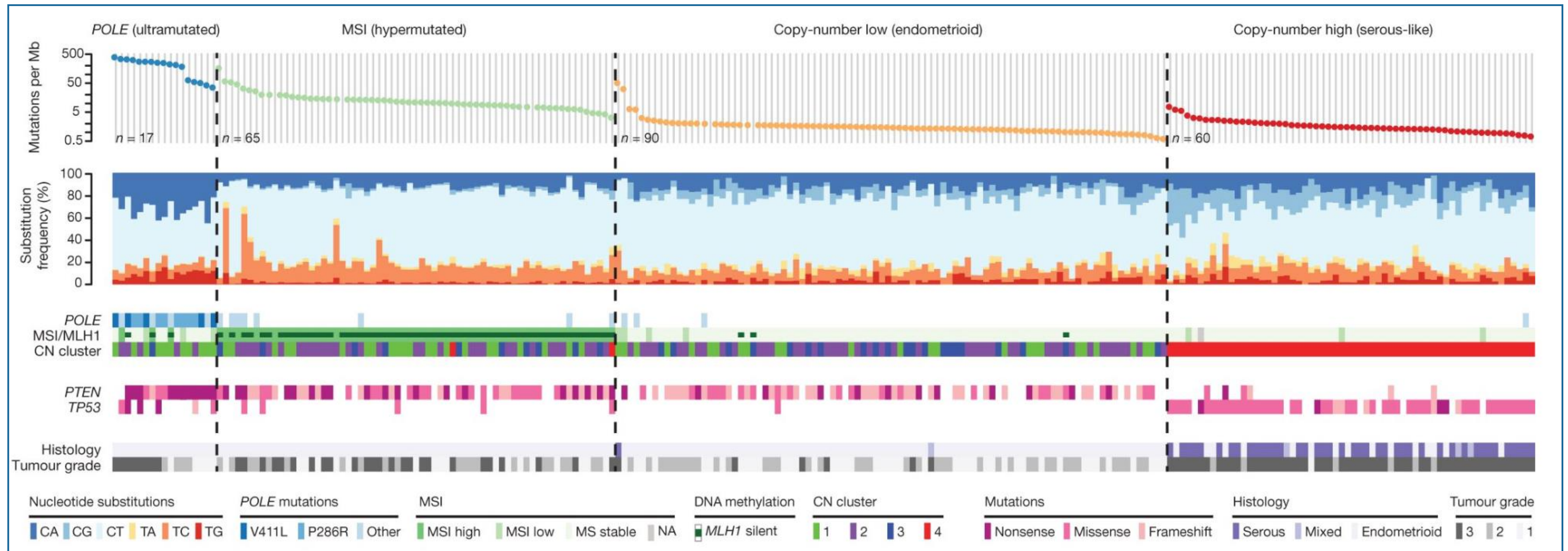
BESOIN DE CRITÈRES DE RISQUE DE RECHUTE ET D'INDICATIONS DE TRAITEMENTS ADJUVANTS PLUS ROBUSTES

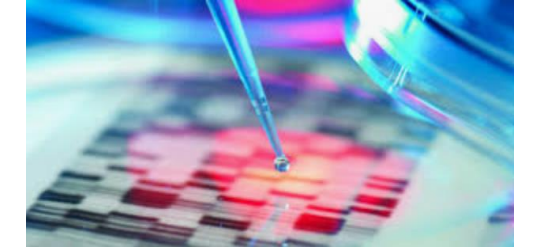




Integrated genomic characterization of endometrial carcinoma

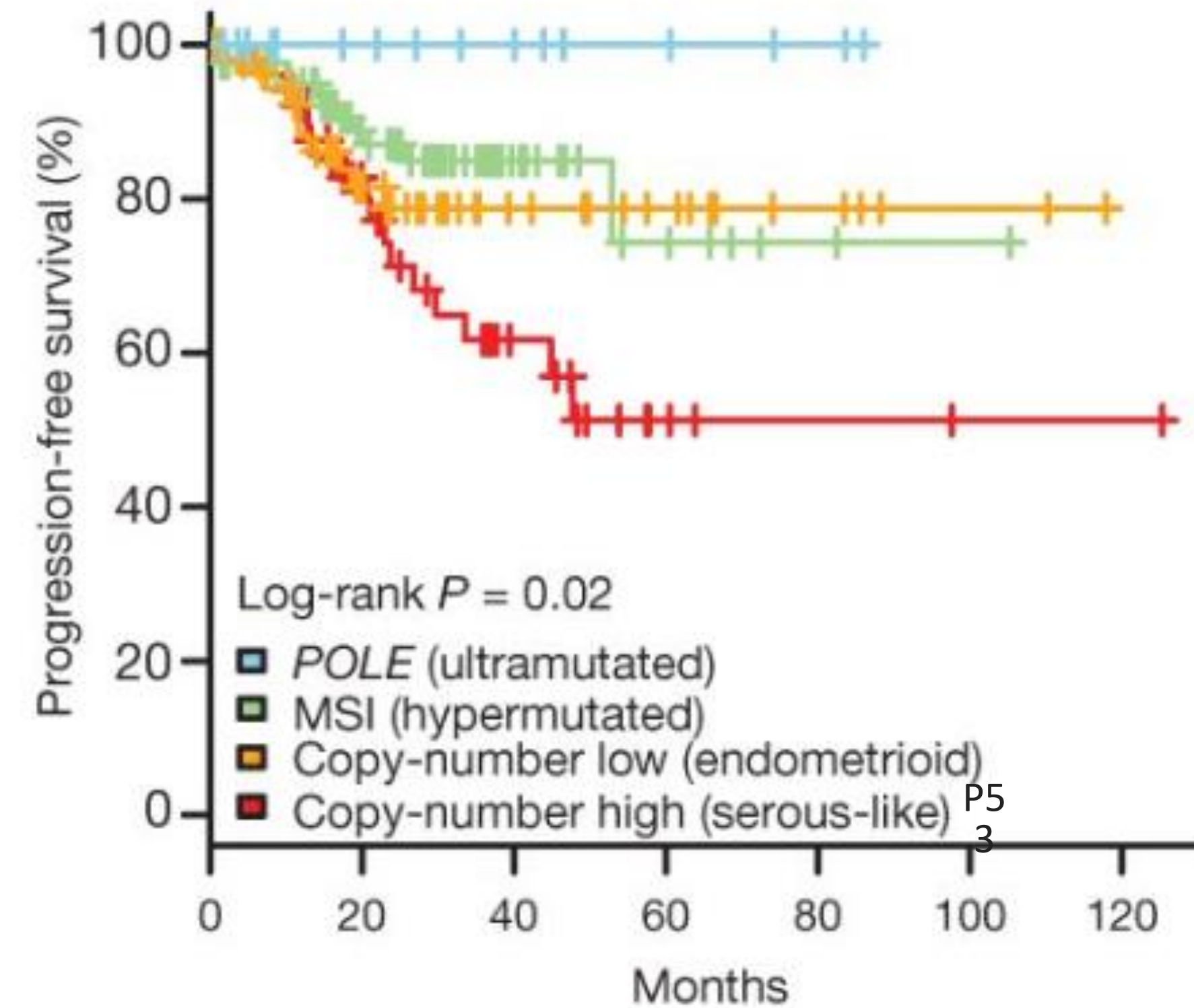
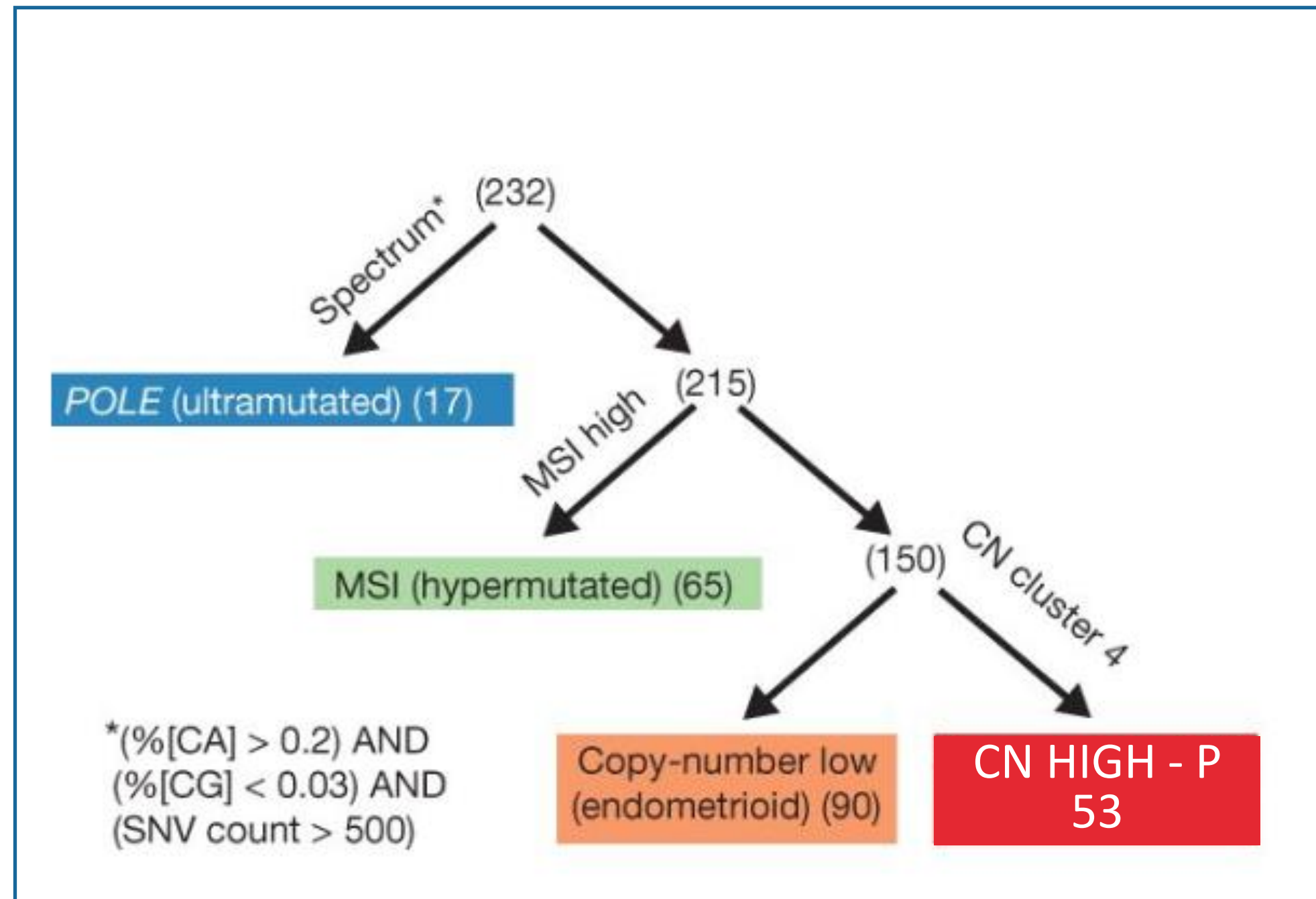
The Cancer Genome Atlas Research Network*

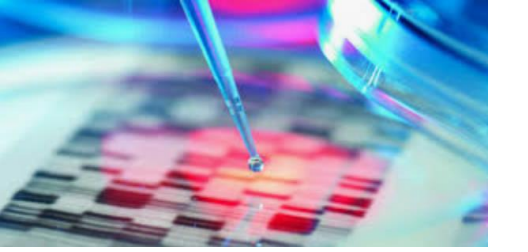




Integrated genomic characterization of endometrial carcinoma

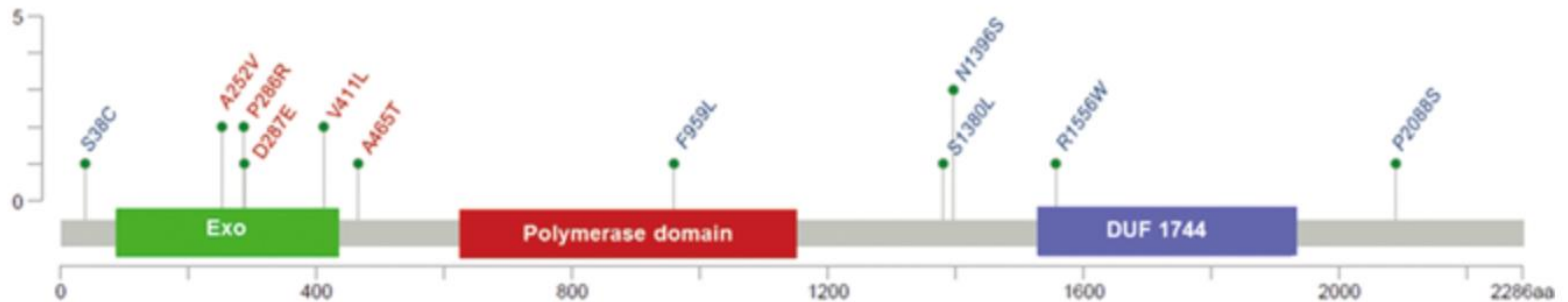
The Cancer Genome Atlas Research Network*





POLE ULTRAMUTÉ

A UN RÔLE DS LA RÉPLICATION DU DNA + EXONUCLÉASE VISANT À
EXCISION/ RÉPARATION D'ERREURS « SINGLE BASE »
« CORRECTEUR ORTHOGRAPHIQUE »

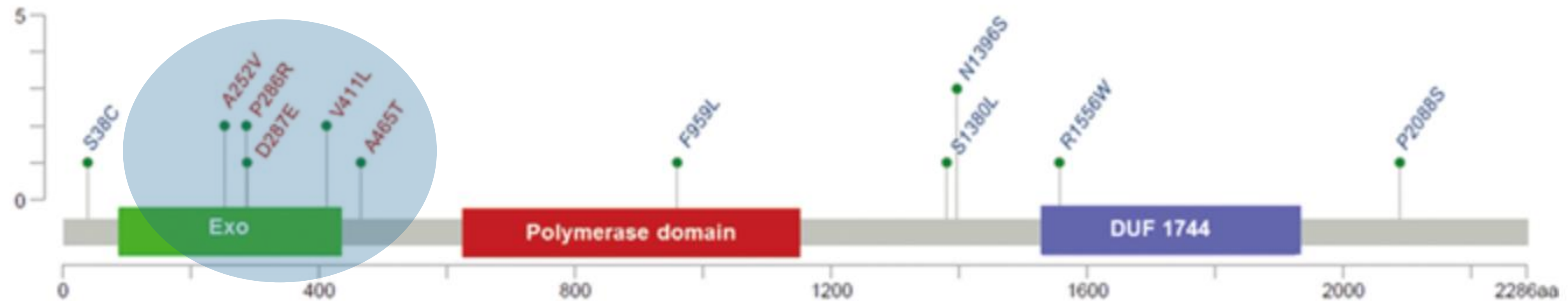


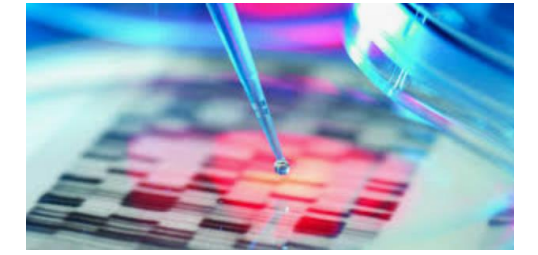


POLE ULTRAMUTÉ

DIAGNOSTIC GÉNÉTIQUE CENTRÉ SUR 3 HOTSPOTS DANS LA RÉGION EXONUCLÉASE (EDM)

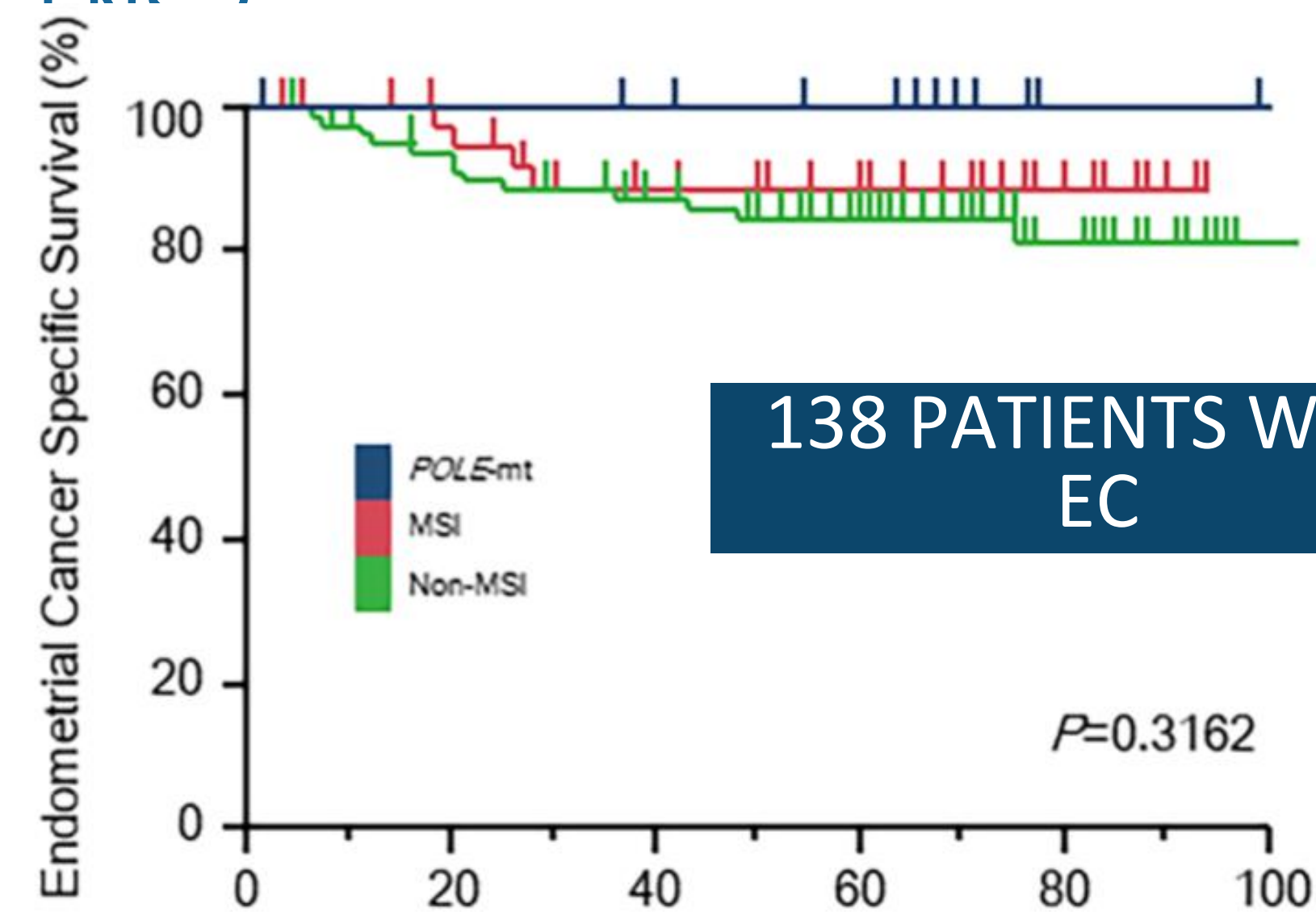
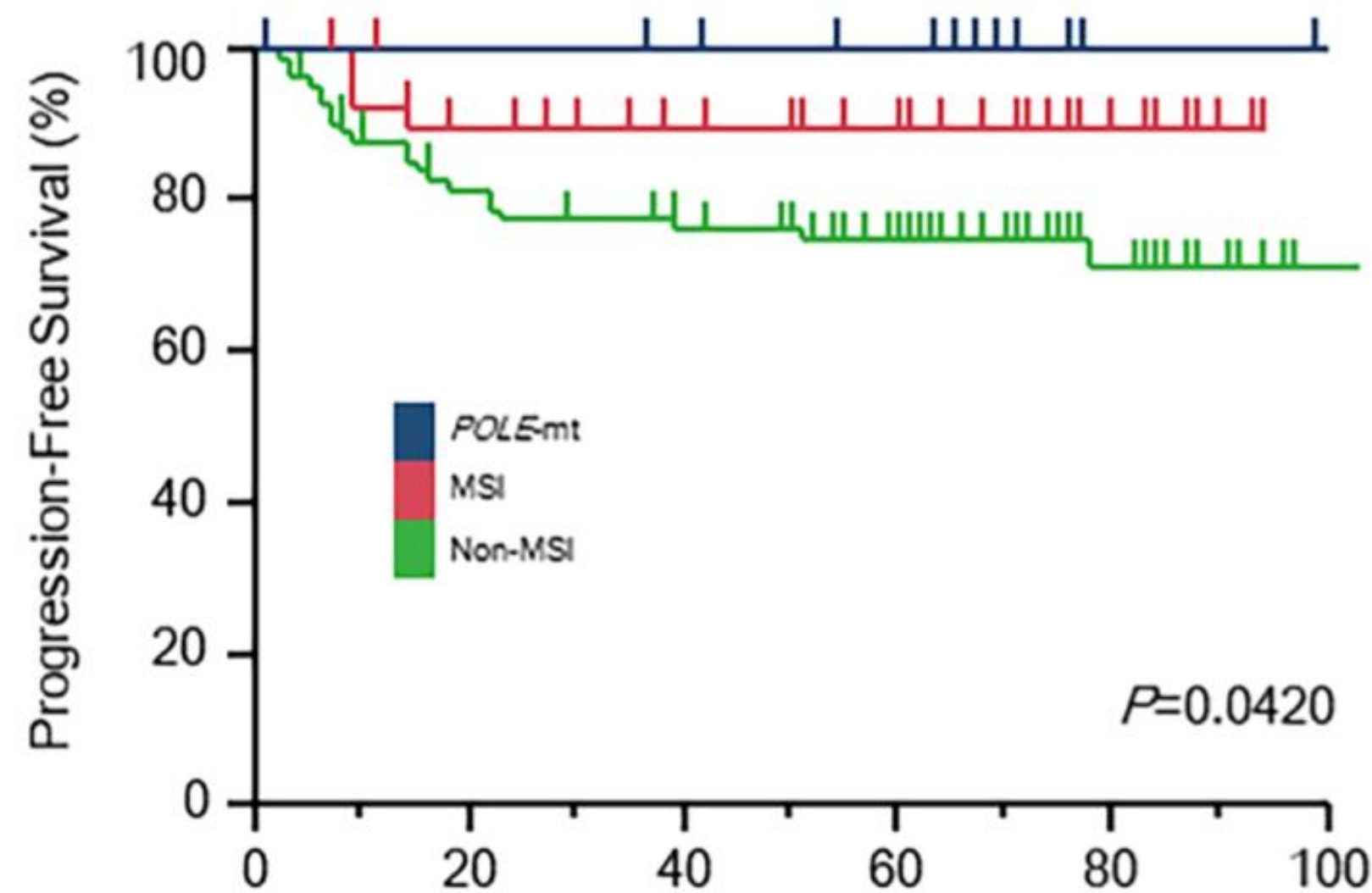
POLE MUTÉ INDUIT UN PHÉNOTYPE ULTRA MUTÉ : NEOANTIGÈNES MEMBRANAIRES ET TIL'S





POLE ULTRAMUTÉ - ENDOMETRIAL CANCER

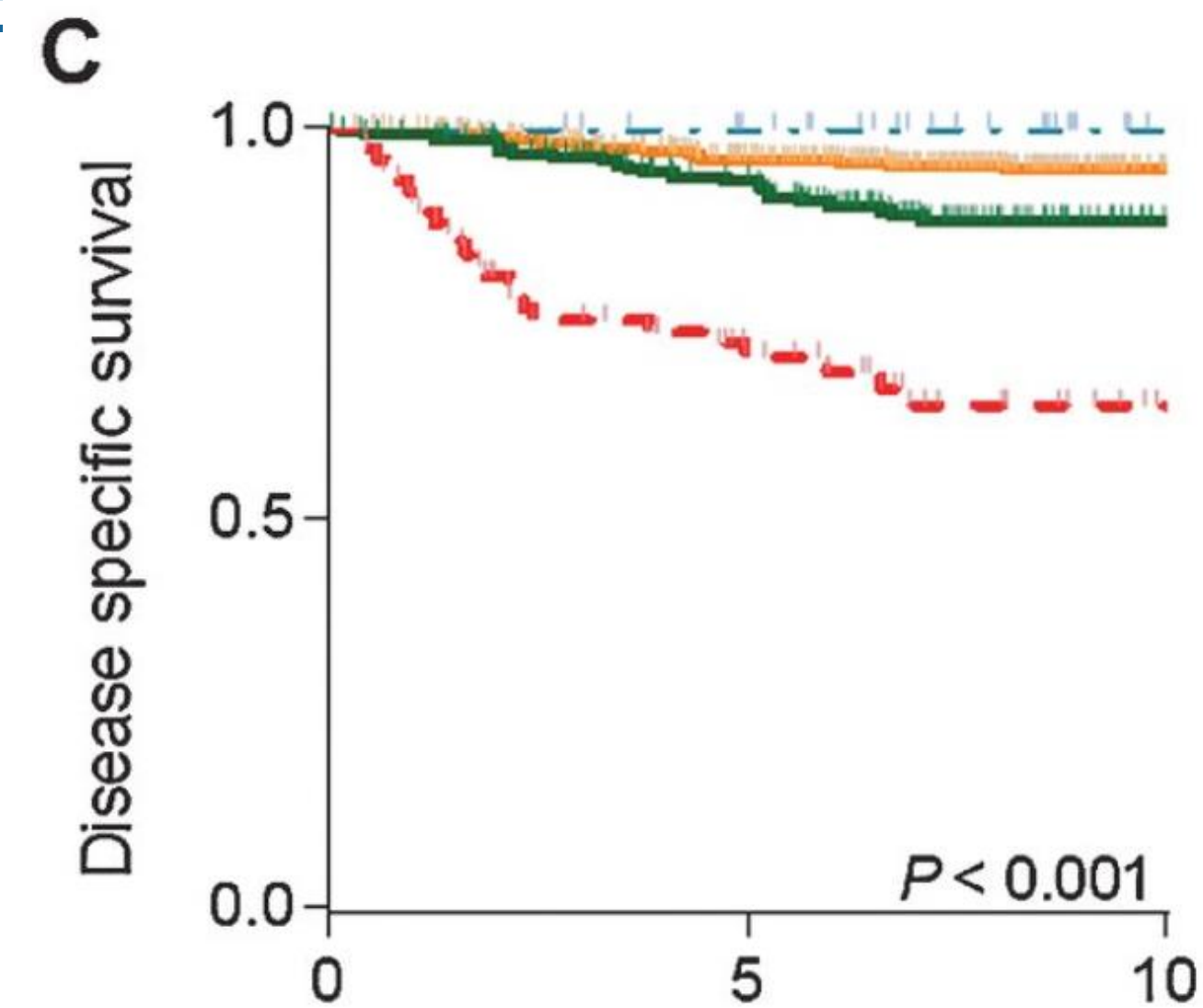
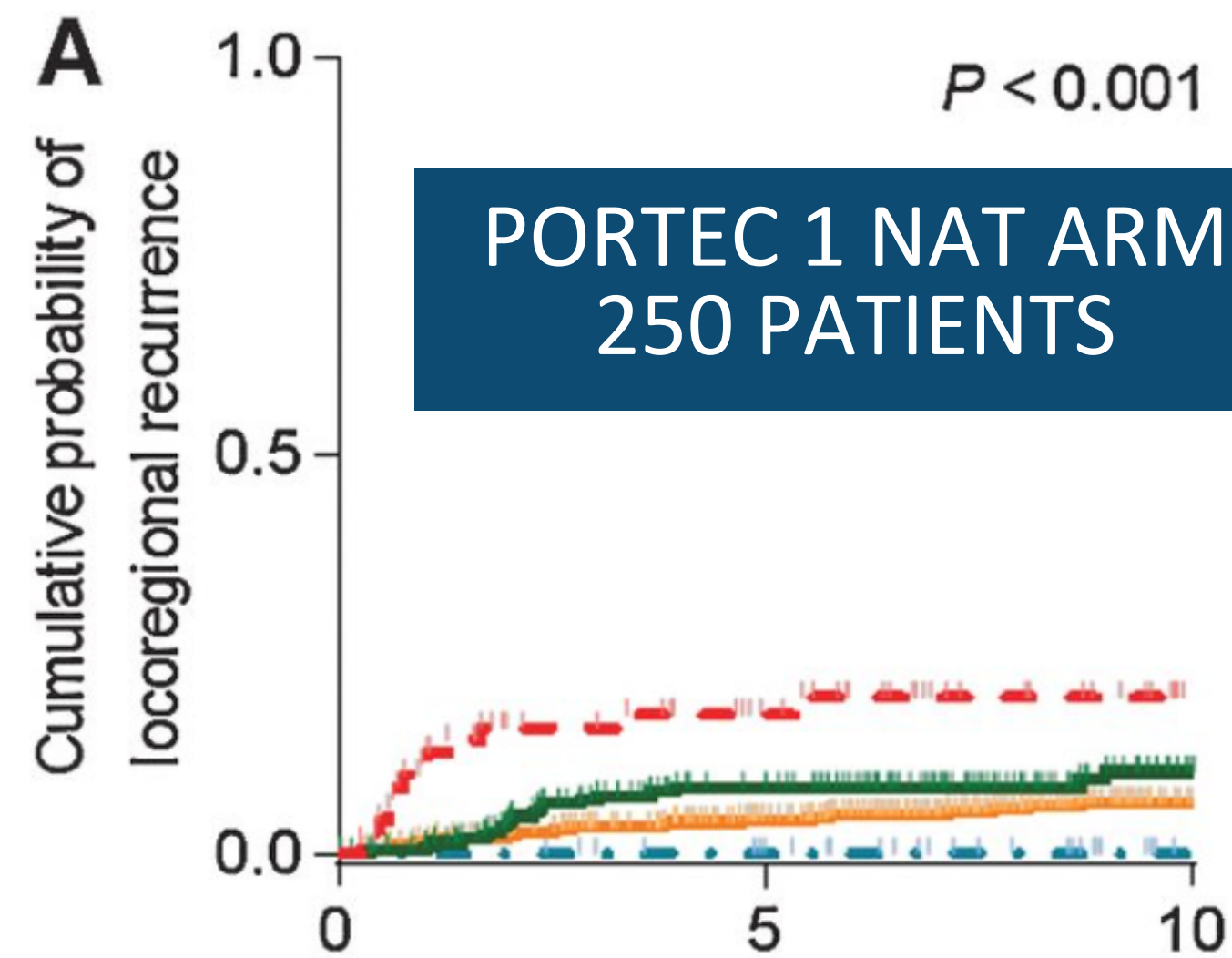
6 TO 8% OF EC - 70% GR 3 / 35% DEEP MYO INV / 40% LVSI +
ASSOCIATED WITH PARTICULARLY GOOD OUTCOME DUE TO ? ACCUMULATION OF
METHYLATIONS





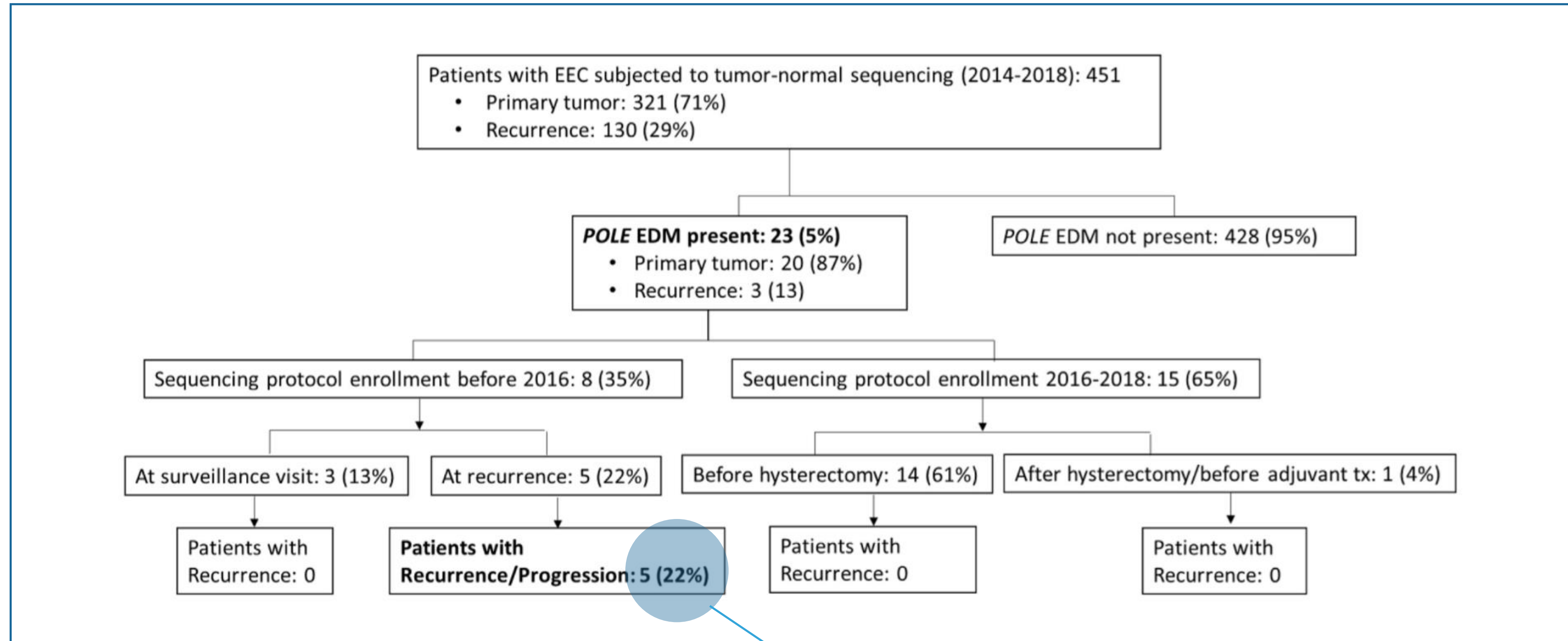
POLE ULTRAMUTÉ - ENDOMETRIAL CANCER

6 TO 8% OF EC - 70% GR 3 / 35% DEEP MYO INV / 40% LVSI +
ASSOCIATED WITH PARTICULARLY GOOD OUTCOME DUE TO ? ACCUMULATION OF
NEOANTIGENS ?





POLE ULTRAMUTÉ - ENDOMETRIAL CANCER

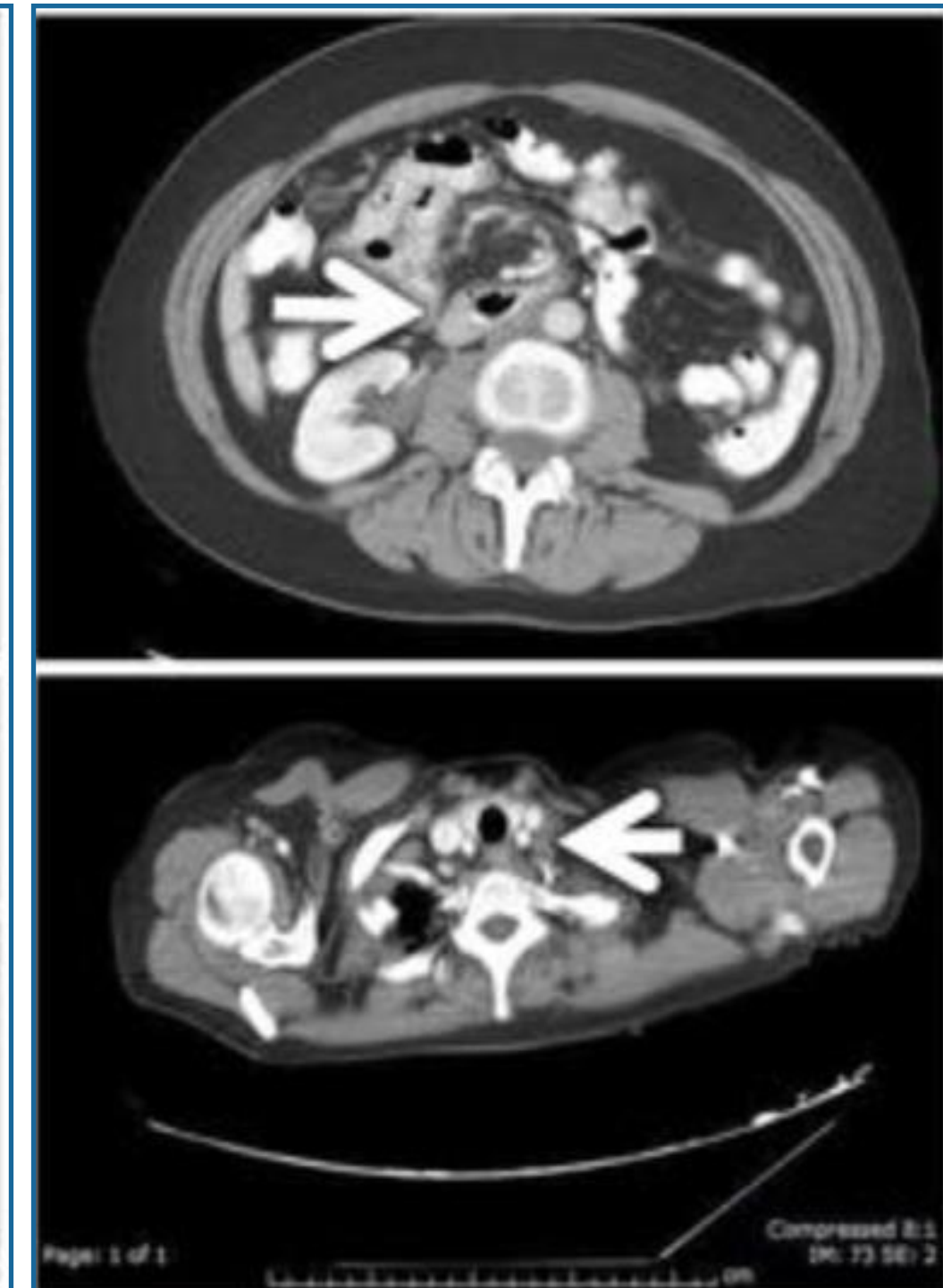
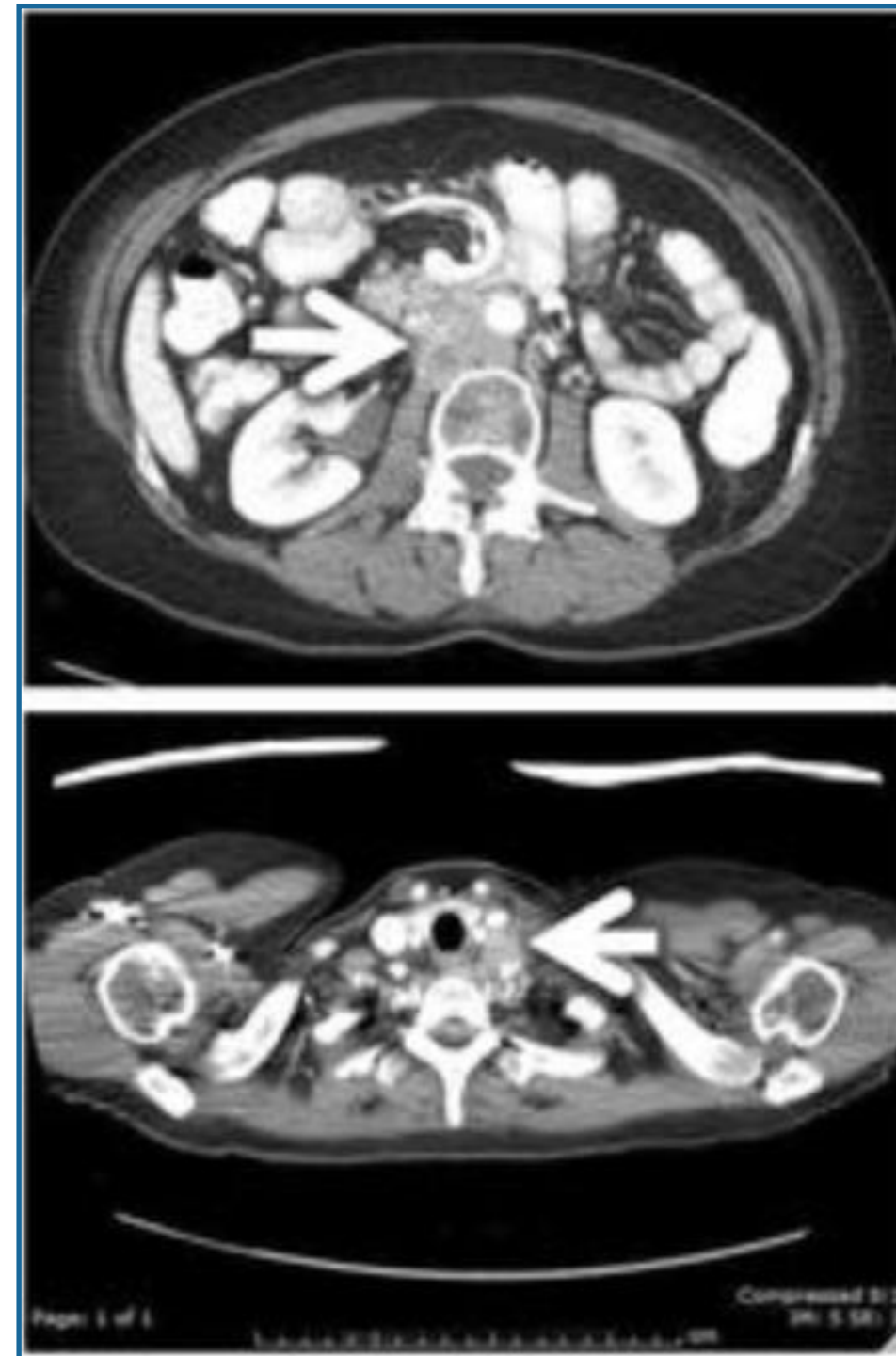
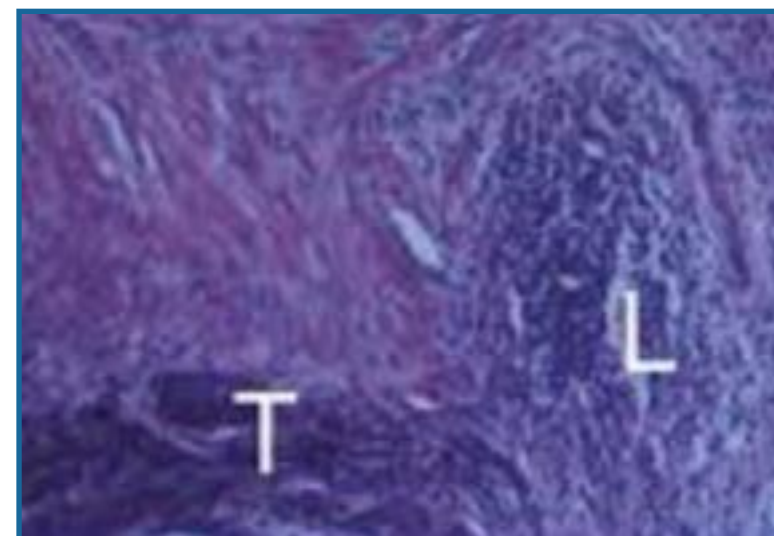
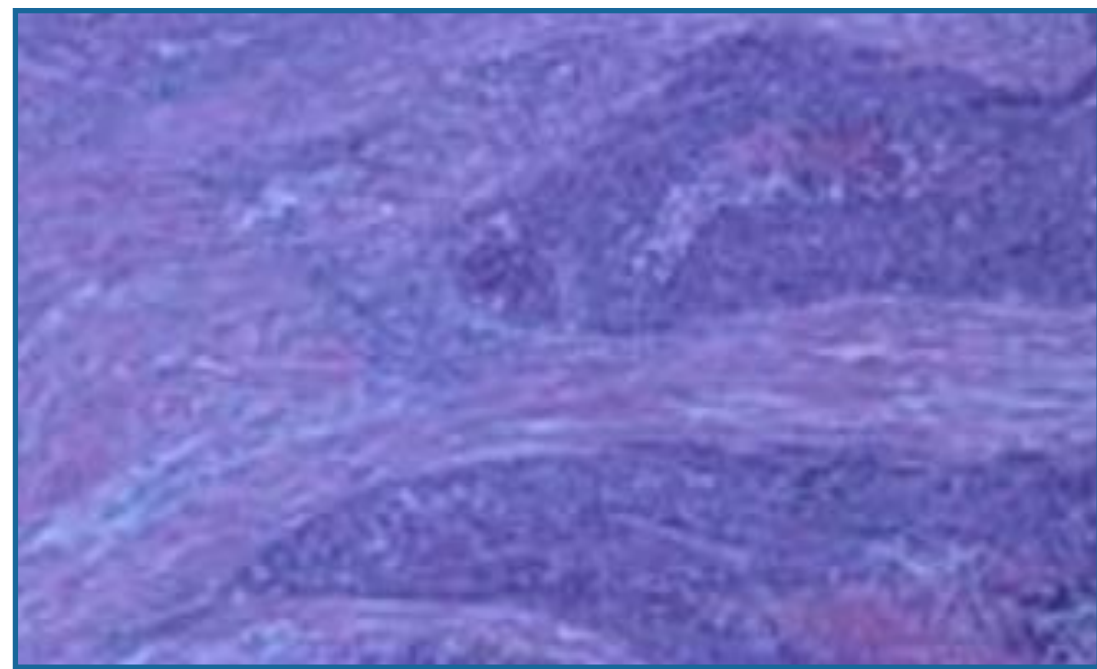


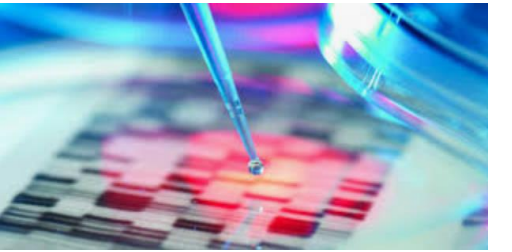
Stasenکو et al. Gyneco Oncol 2020



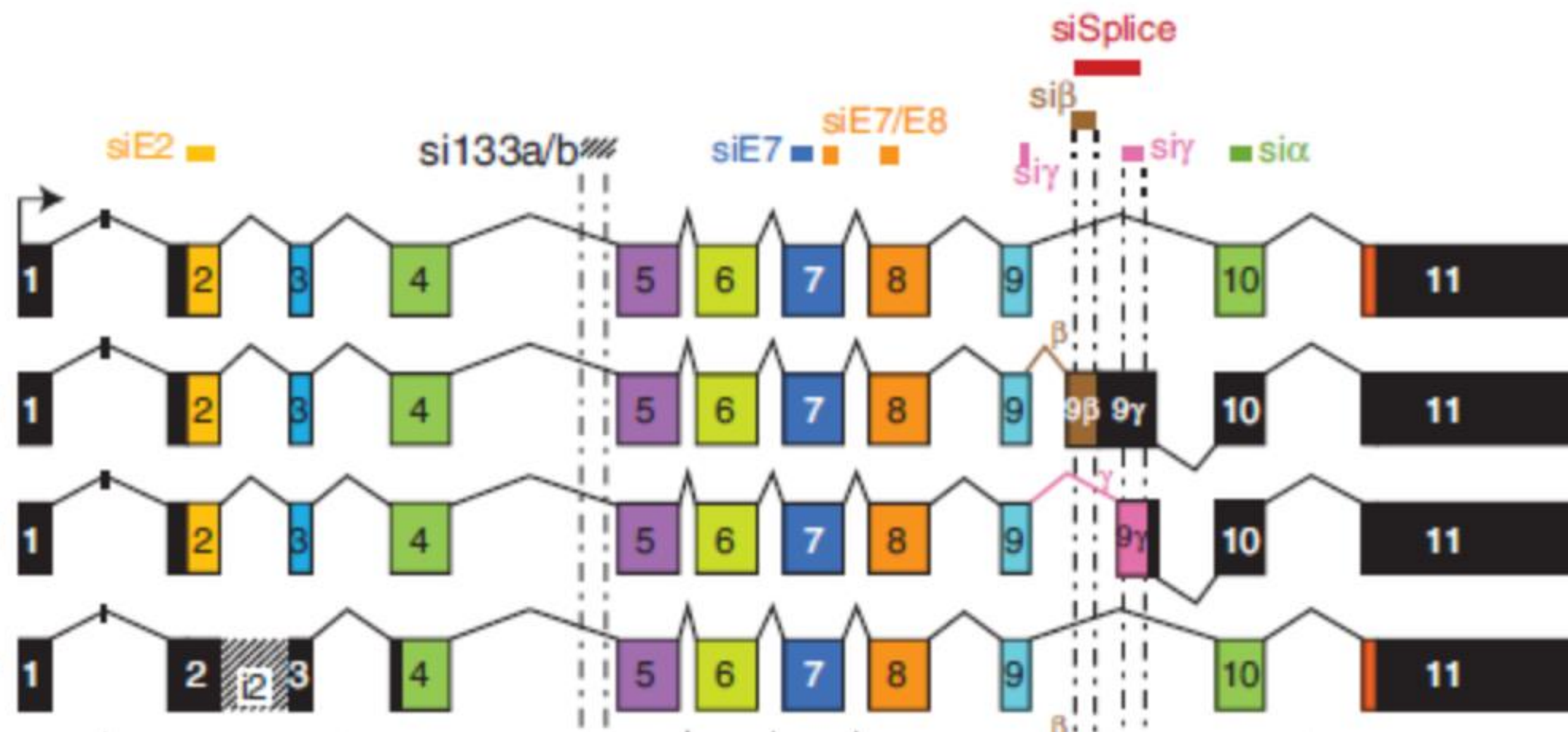
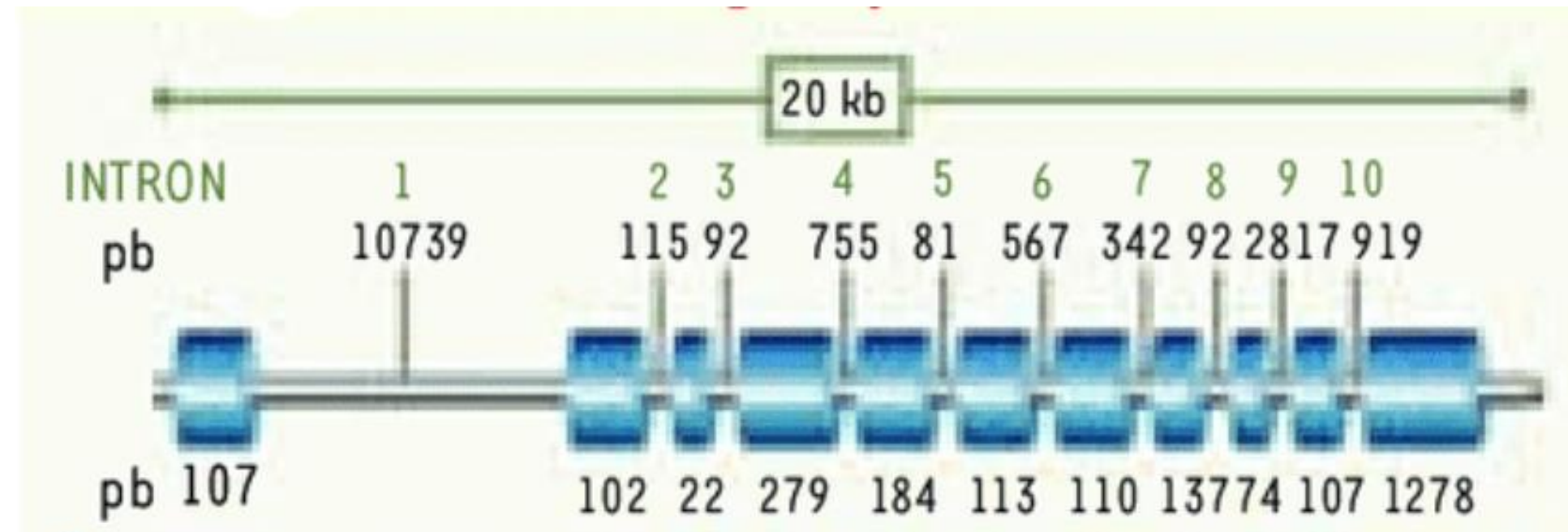
POLE ULTRAMUTÉ - REC/MET ENDOMETRIAL CANCER

OPPORTUNITY FOR PD1/PDL1
INHIBITORS





P53 MUTATION



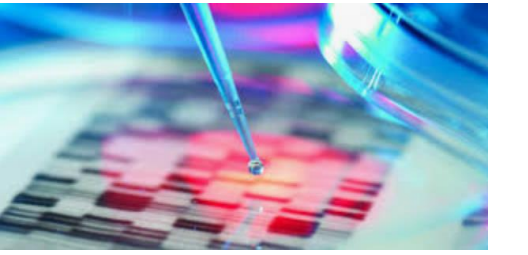
Encoded protein:

p53 α or Δ 40p53 α or p53 α and
 Δ 40p53 α

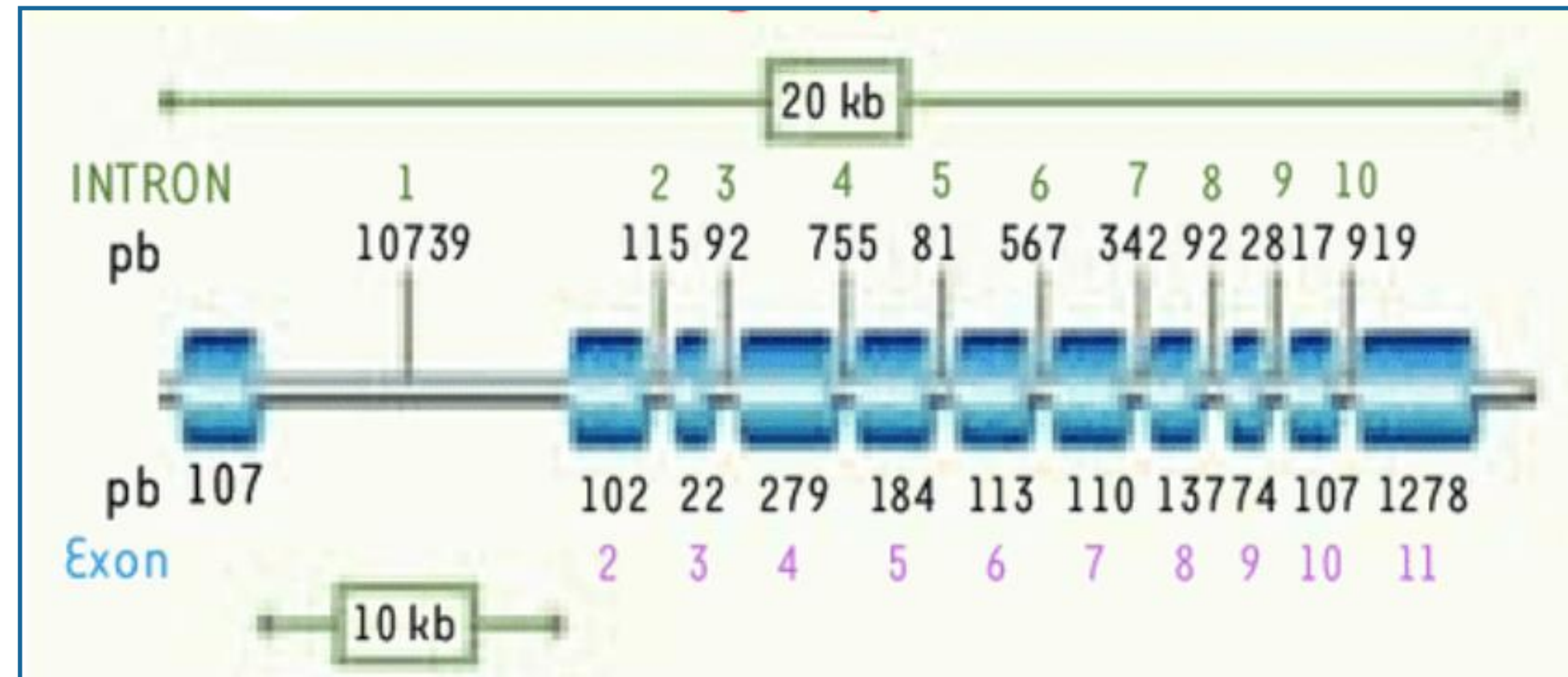
p53 β or Δ 40p53 β or p53 β and
 Δ 40p53 β

p53 γ or Δ 40p53 γ or p53 γ and
 Δ 40p53 γ

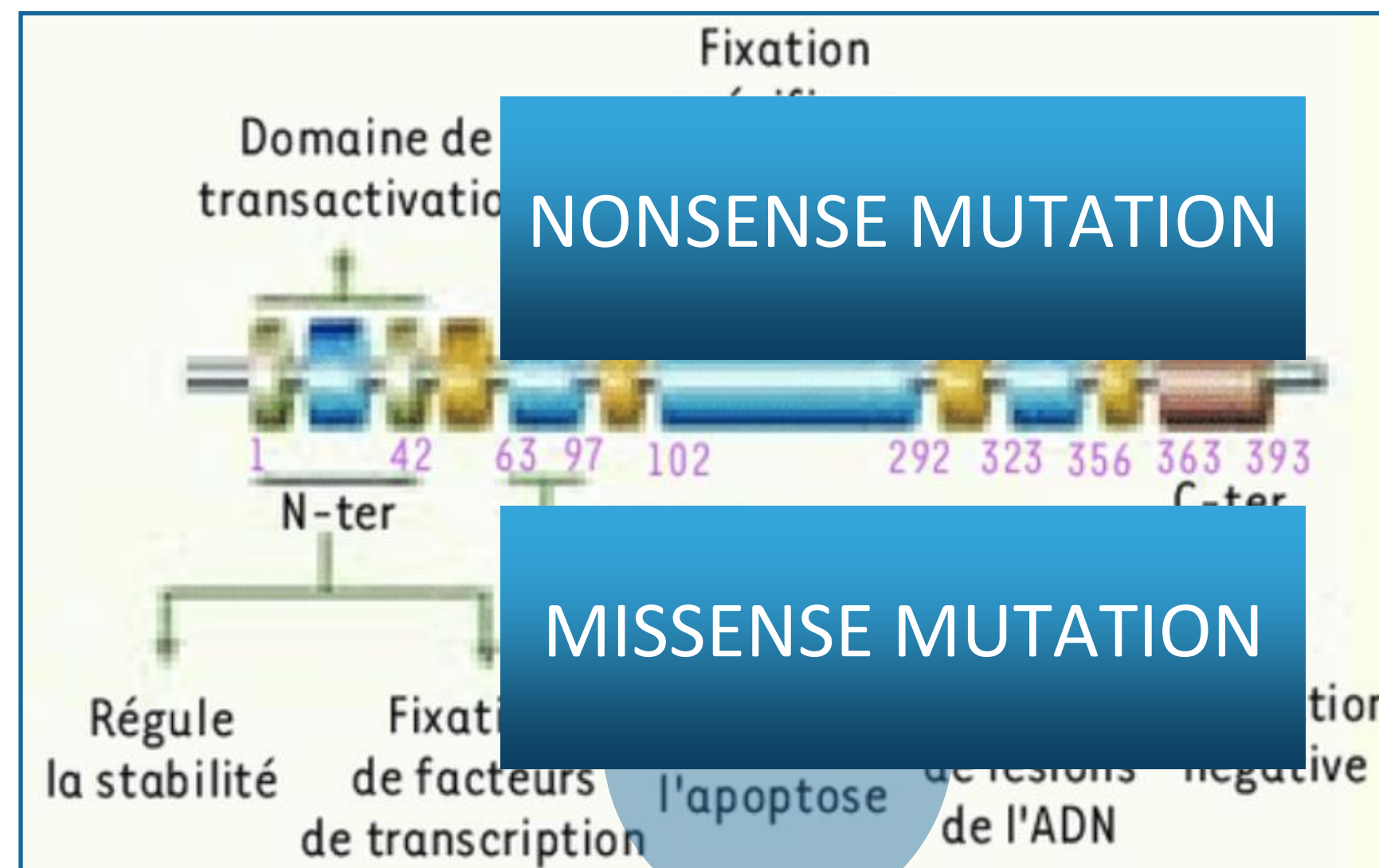
Δ 40p53 only



P53 MUTATION

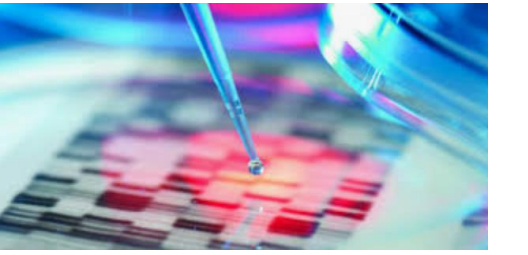


**P53 MUTÉ
PAR OPPOSITION
À P53 WT**



**ABSENCE OF P53 PROTEIN
LOSS OF APOPTOTIC
FUNCTION**

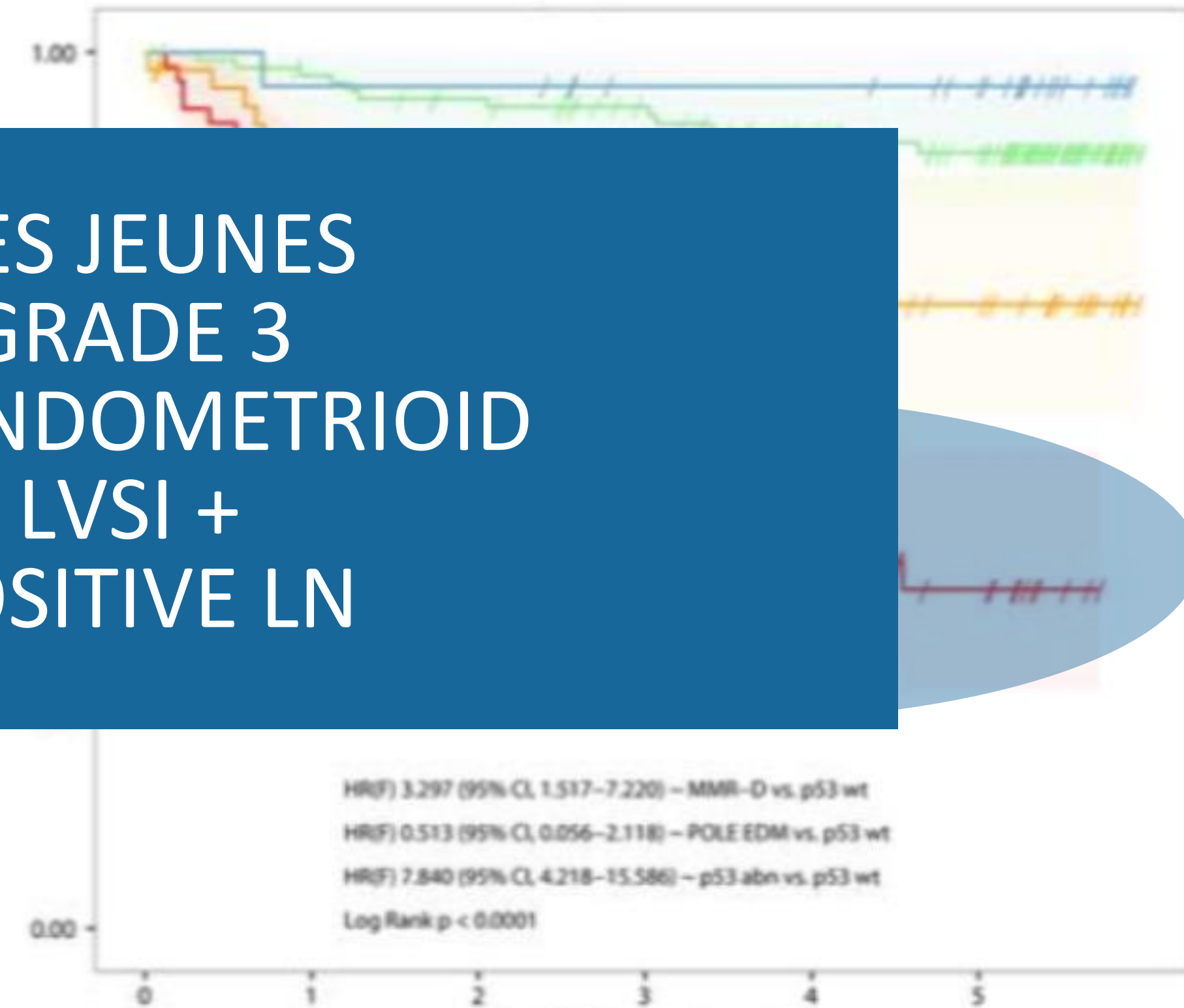
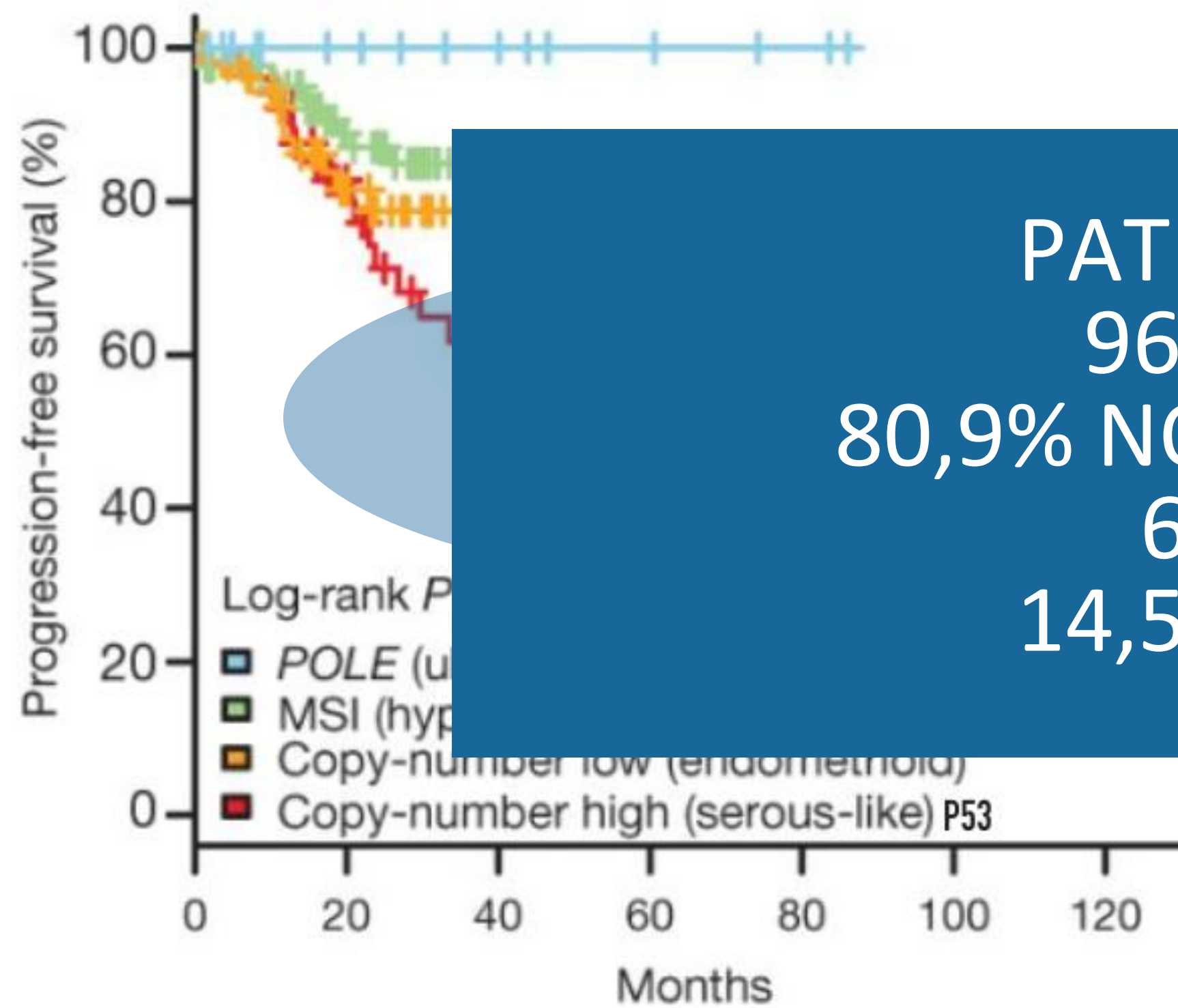
**ABONDANT P53
TRUNCATED PROTEINS
(NUCLEAR/CYTOPL
« NEGATIVE DOMINANT
PROTEINS »**



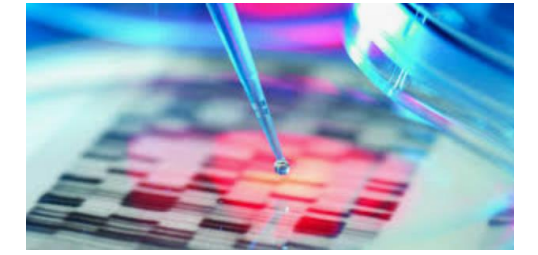
P53 MUTATION

NGS

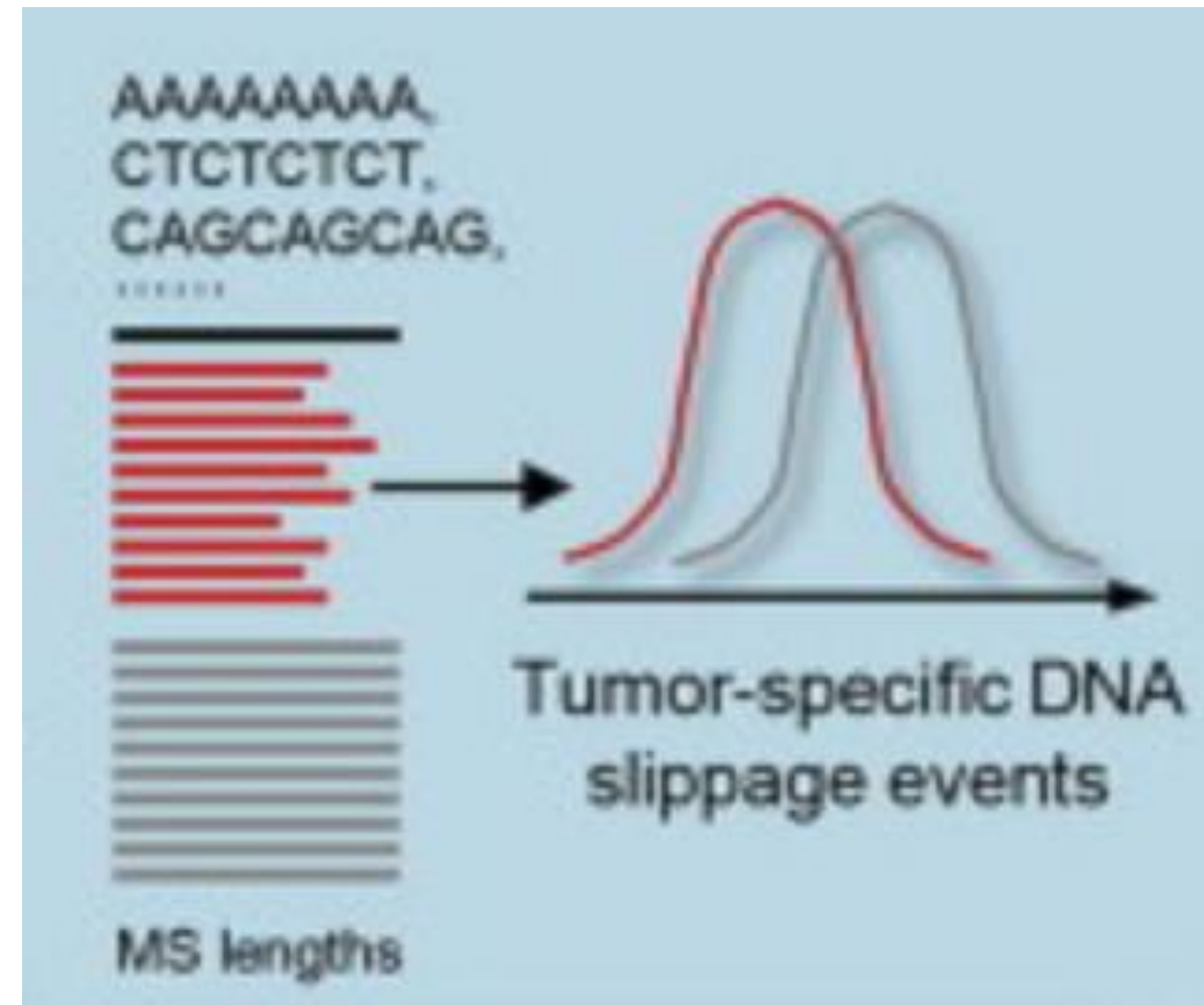
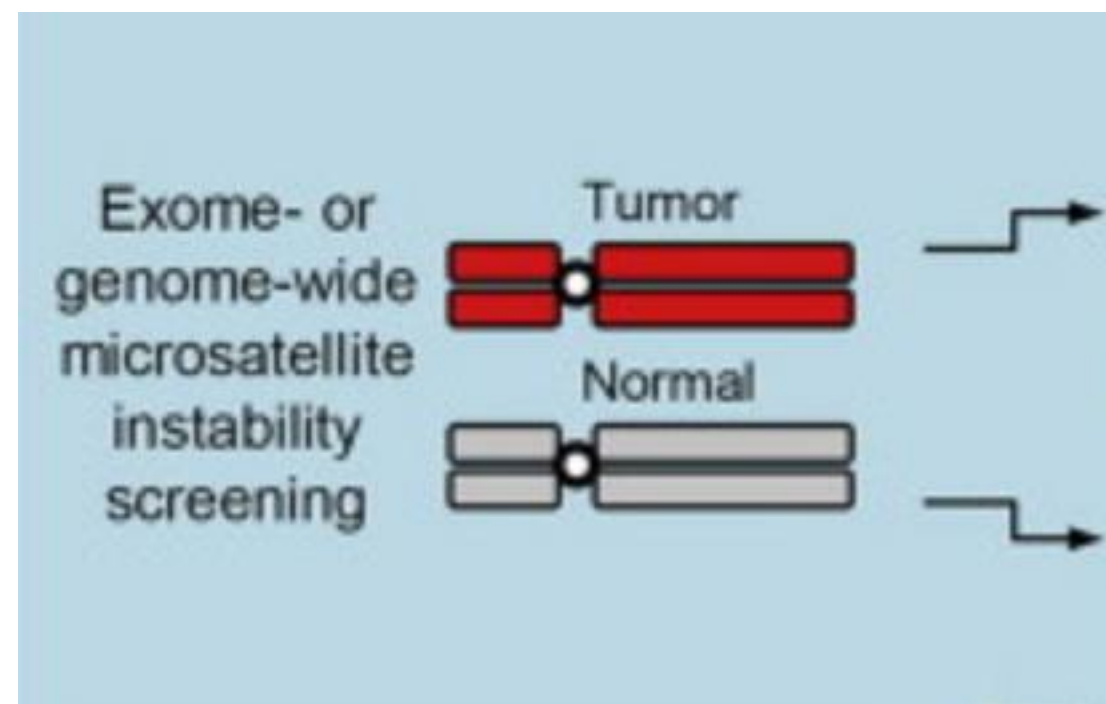
IHC



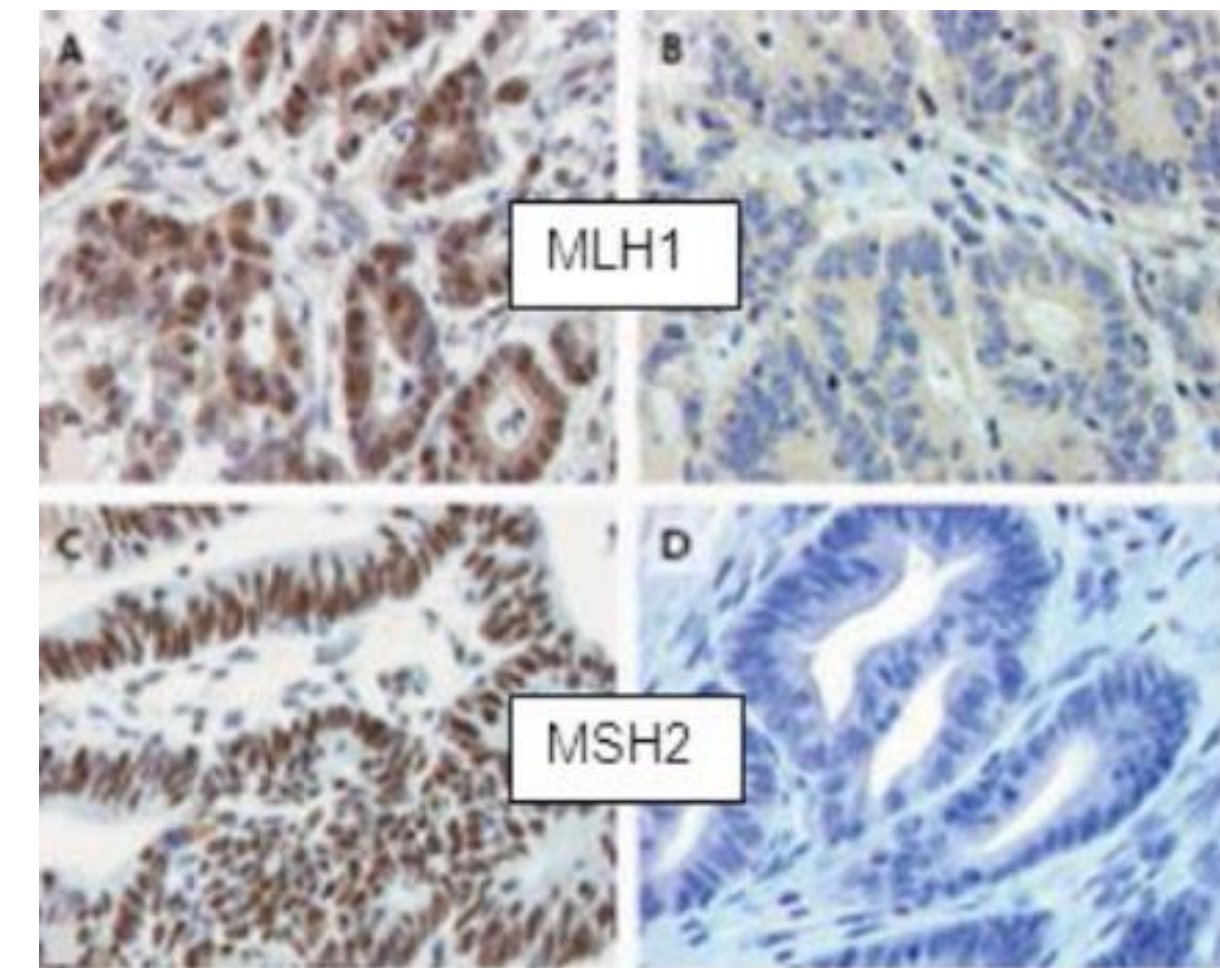
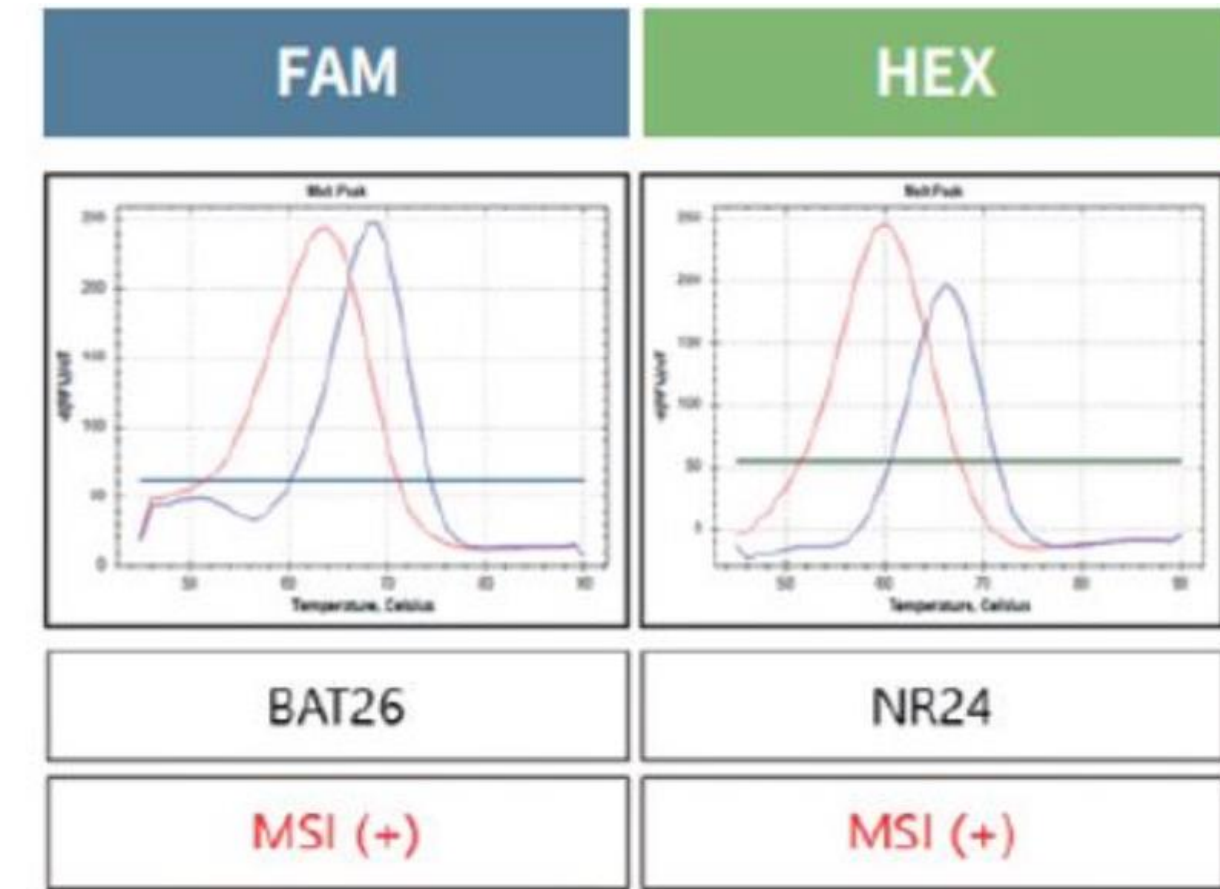
PATIENTES JEUNES
96,5% GRADE 3
80,9% NON ENDOMETRIOID
61,3% LVSI +
14,5% POSITIVE LN



MSI - H

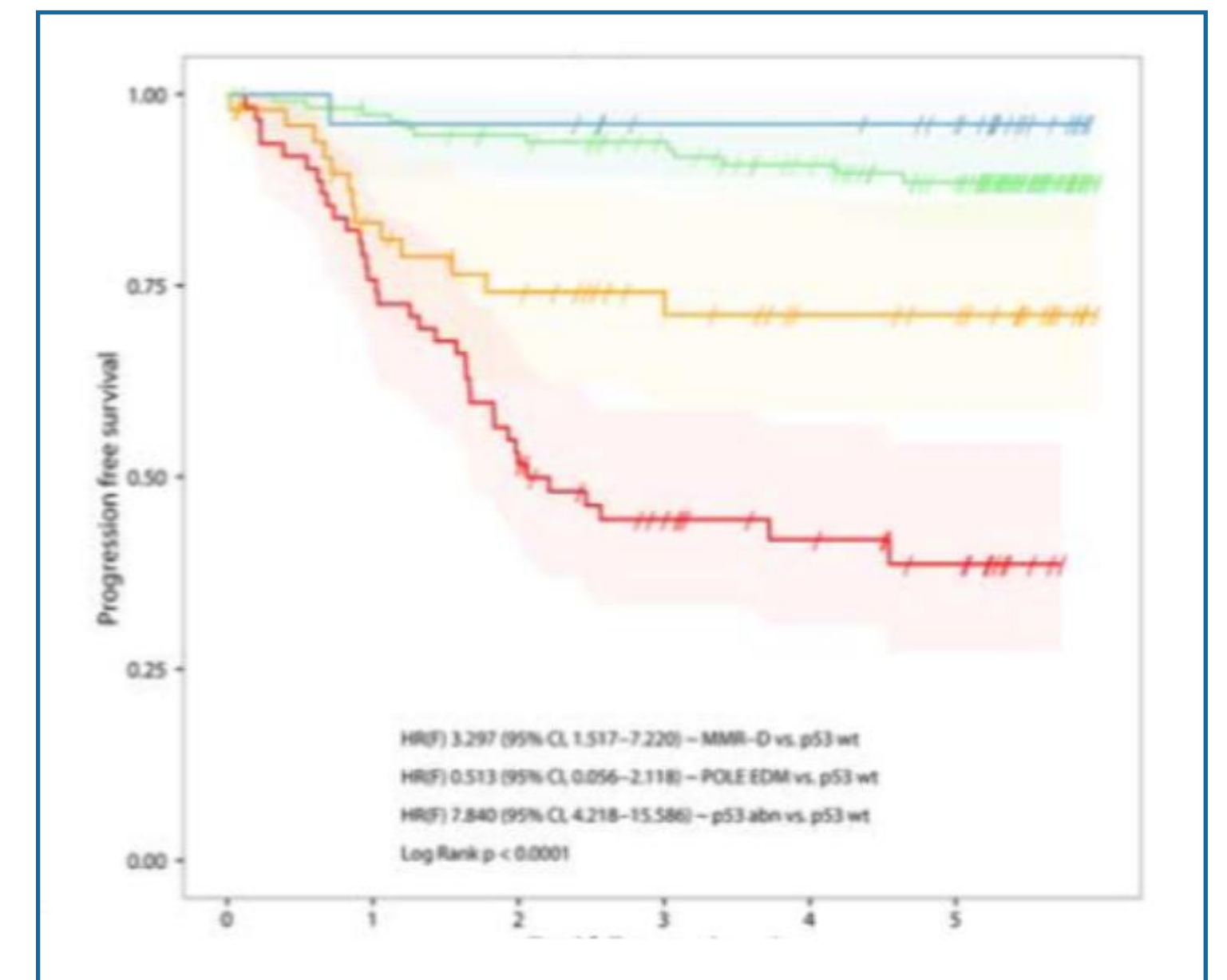
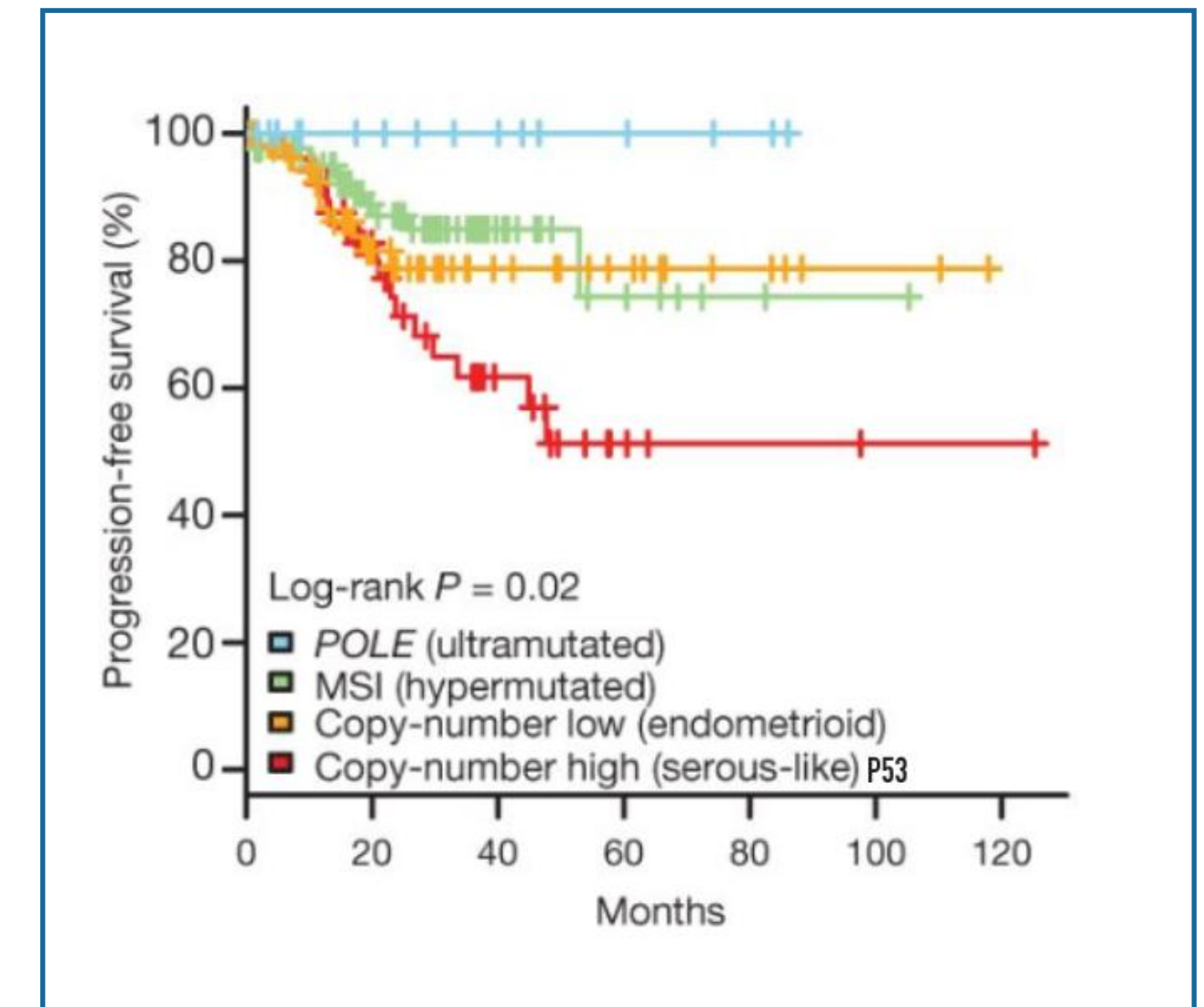
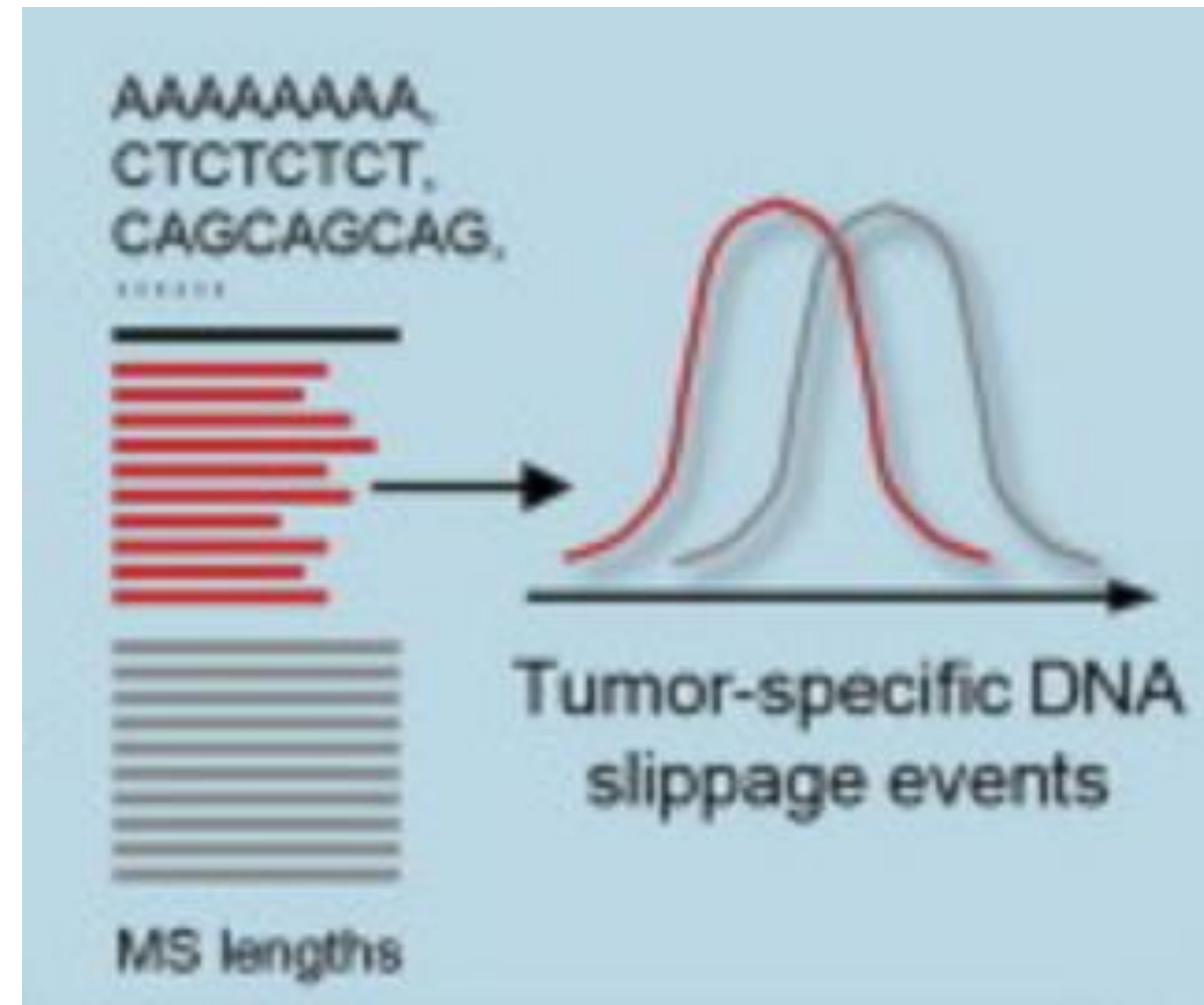
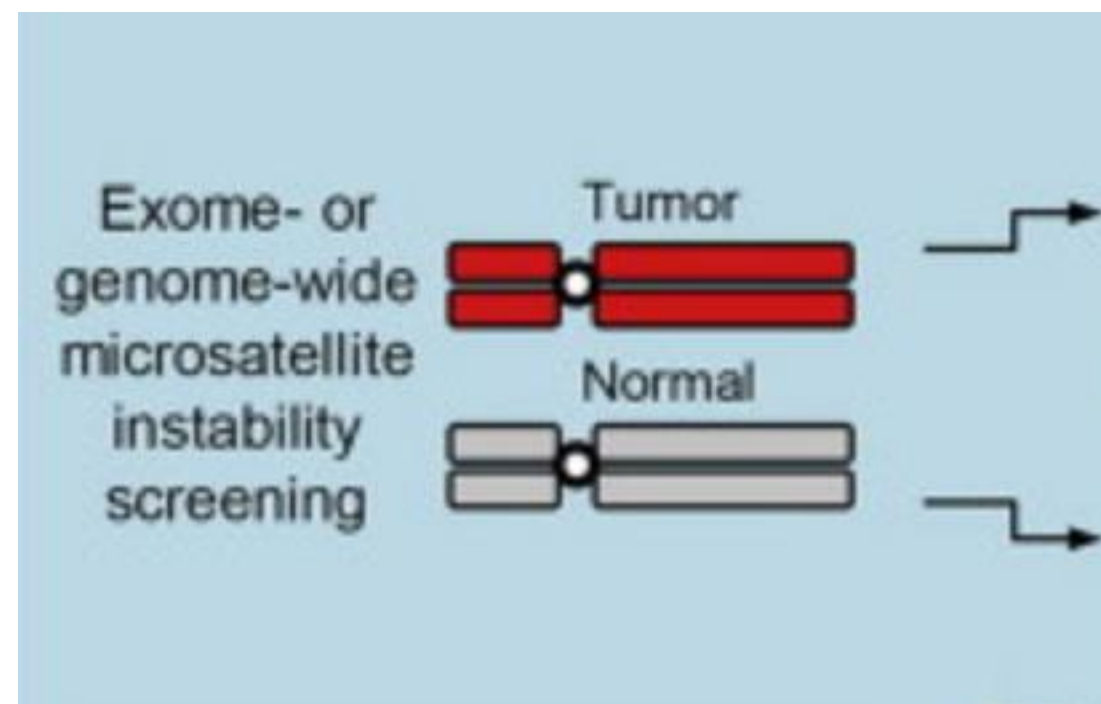


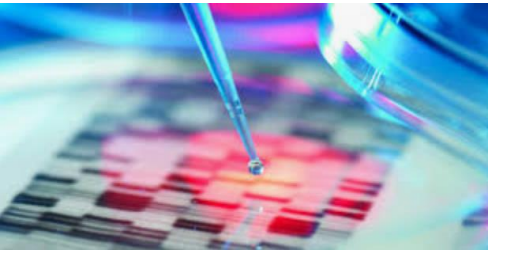
MSI-H (High)



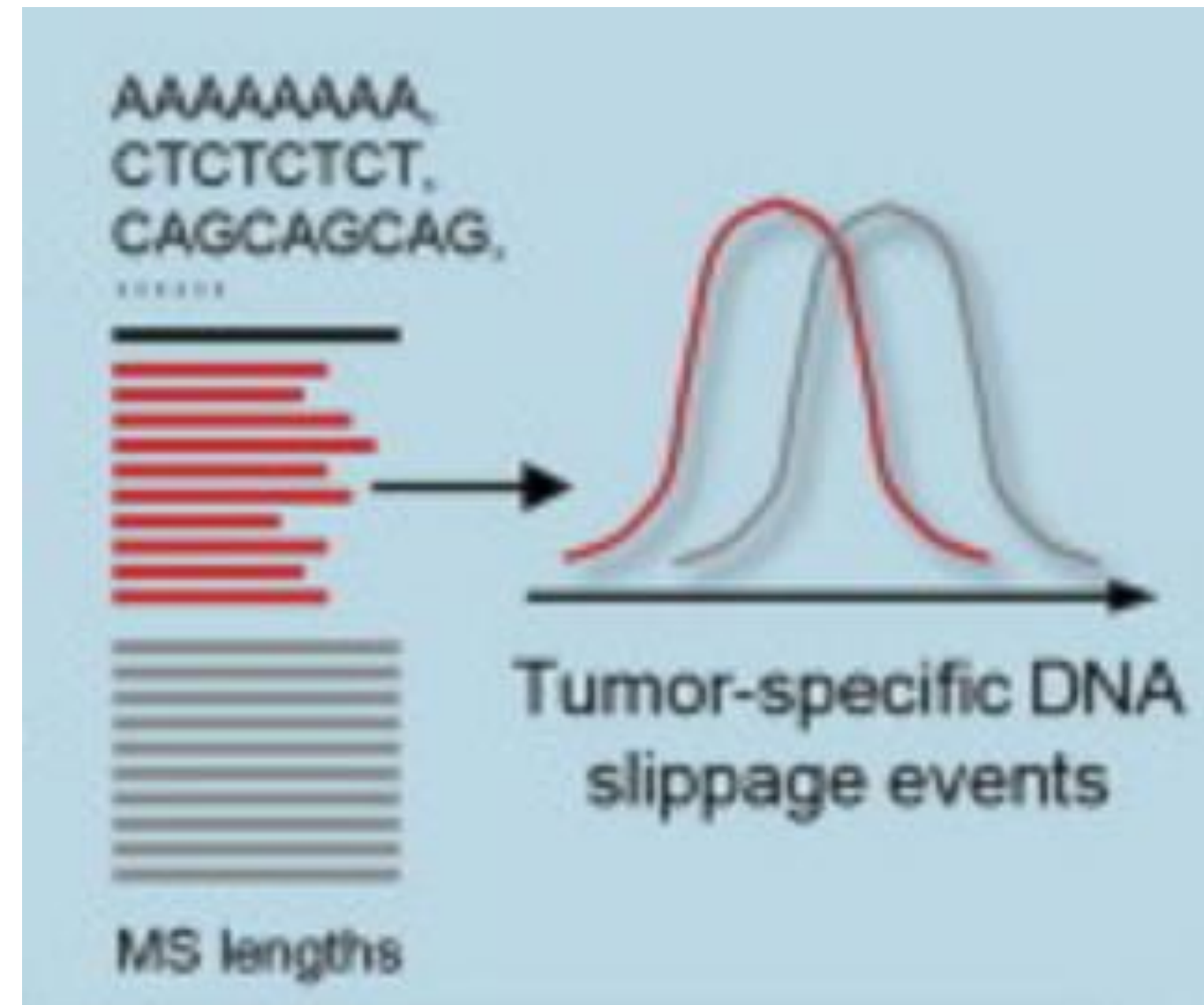
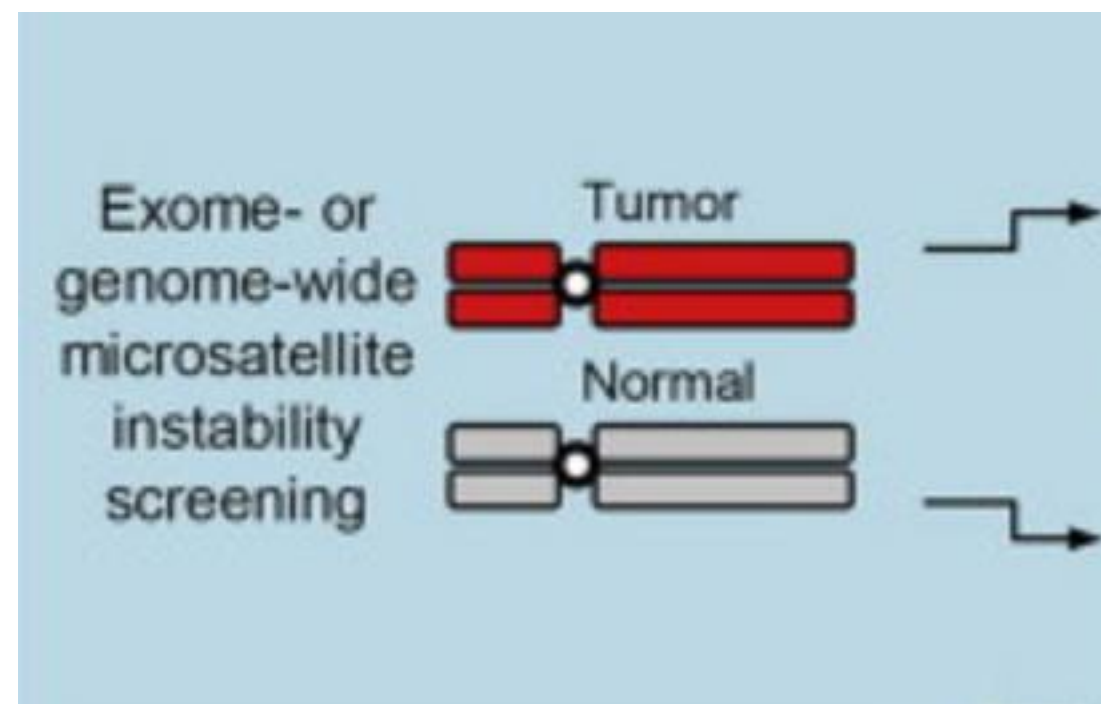


MSI - H





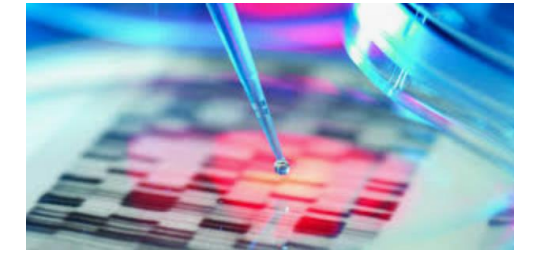
MSI - H



CONCENTRATION LEVEL
DE PROTÉINES TRONQUÉES

NEOANTIGENS
MEMBRANAIRES/TIL'S

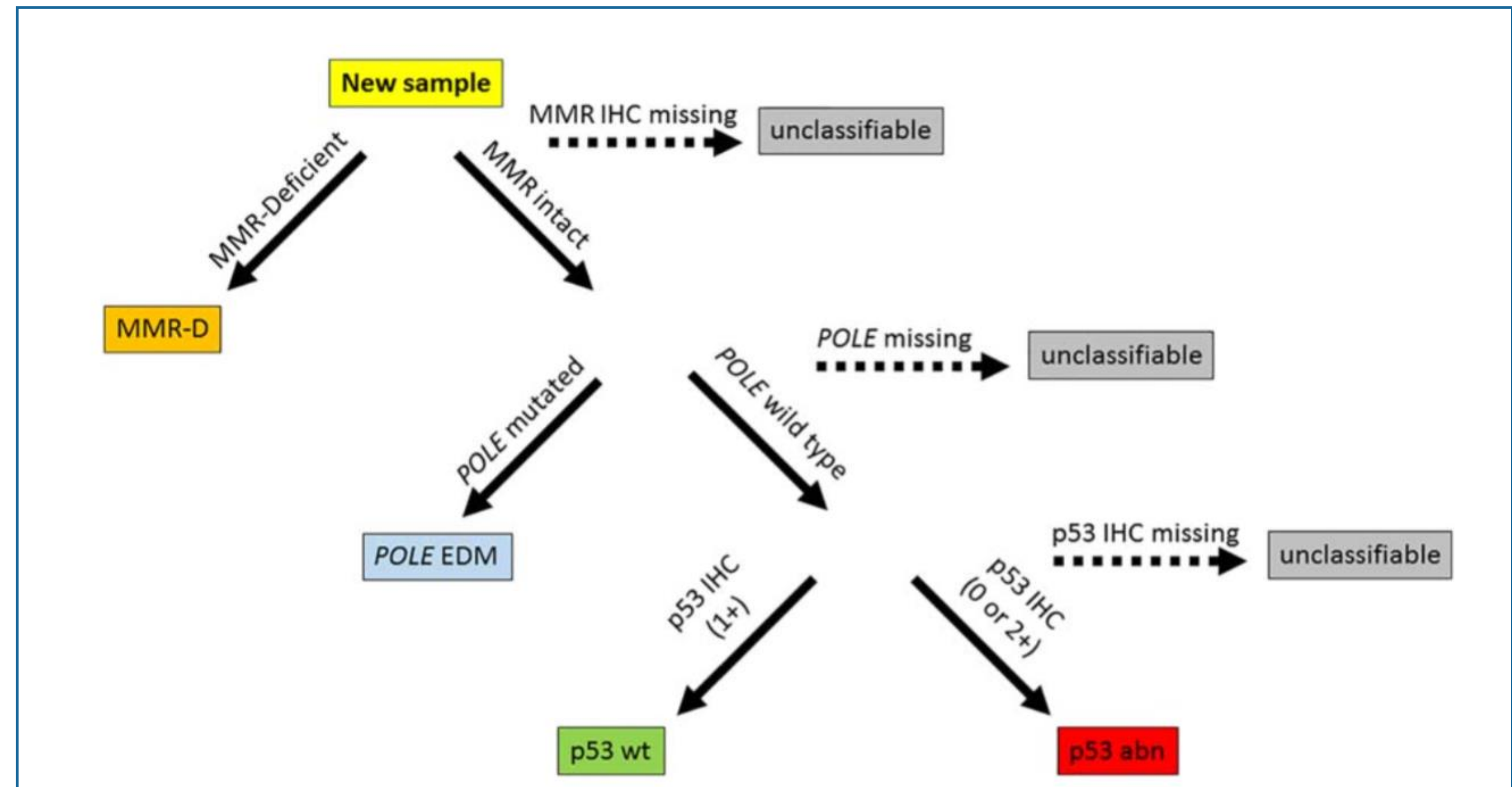
OPPORTUNITY FOR LYNCH
(MSH2 AND 6) VS SOMATIC
(MLH1 AND PMS2) MMR-D
IDENTIFICATION

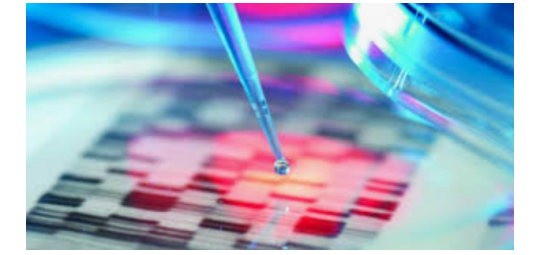


APPROCHE « PROMISE »

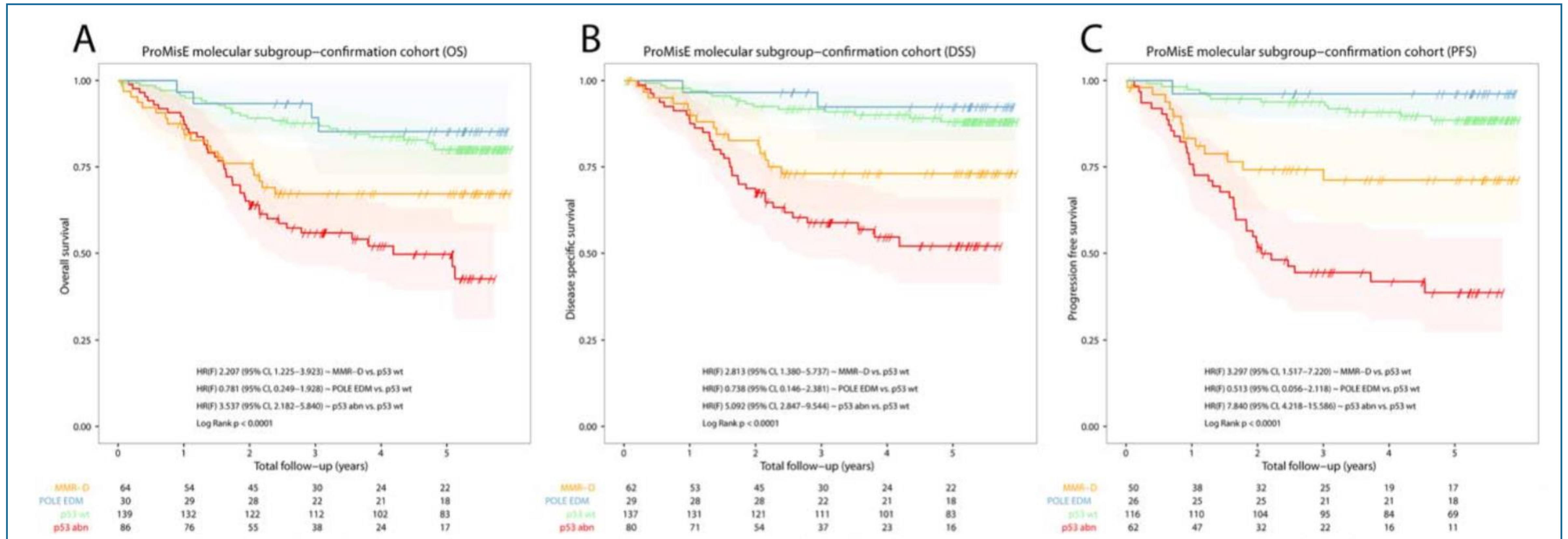
COHORTE
319 PATIENTS

ESMO LR: 30%
ESMO IR: 15,4%
ESMO HR: 54,6%

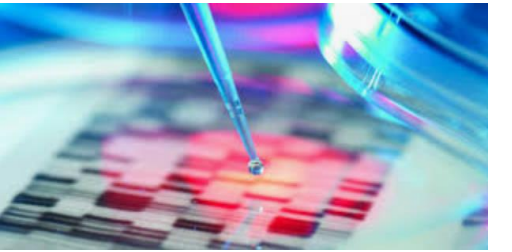




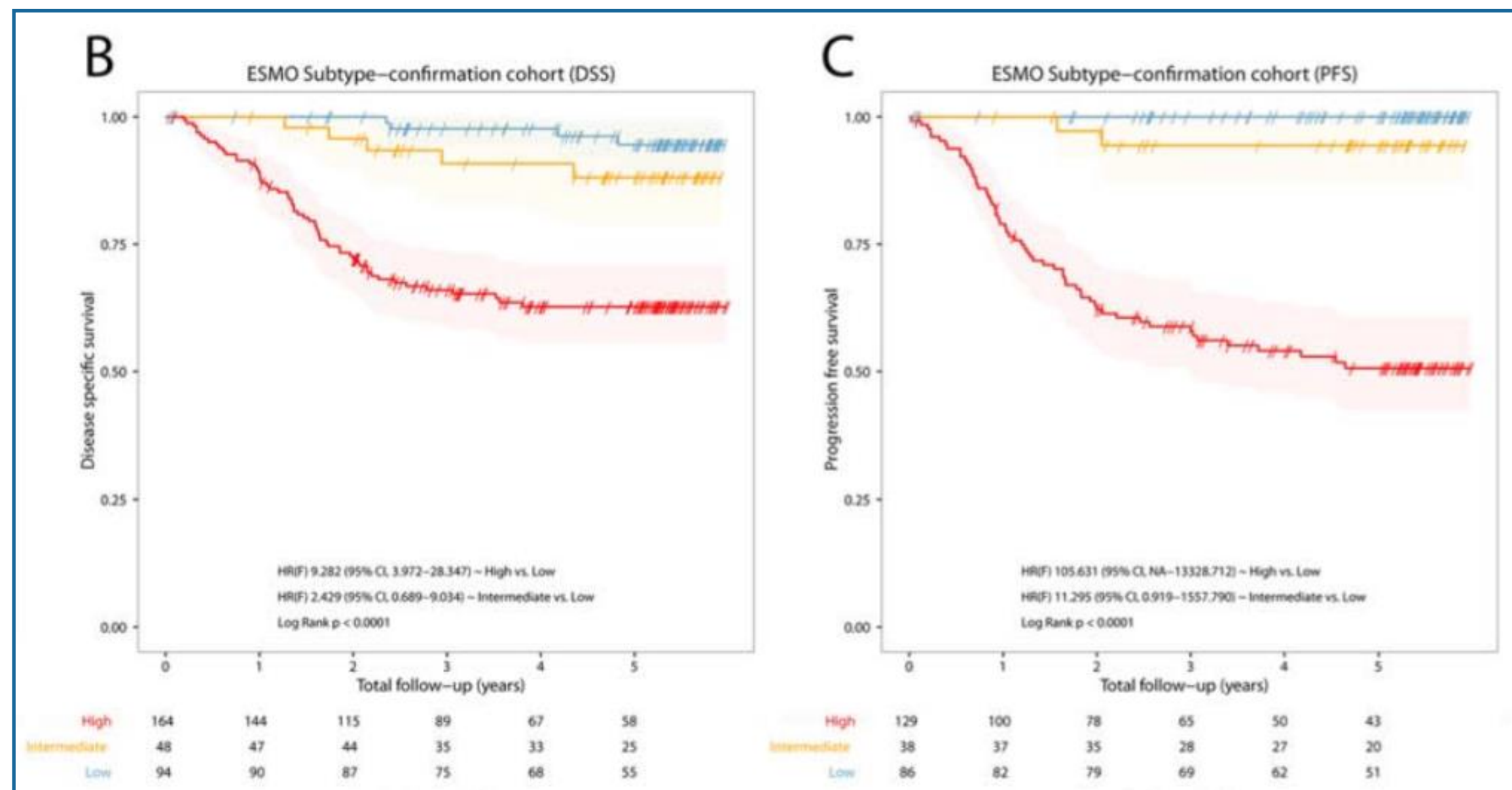
APPROCHE « PROMISE »



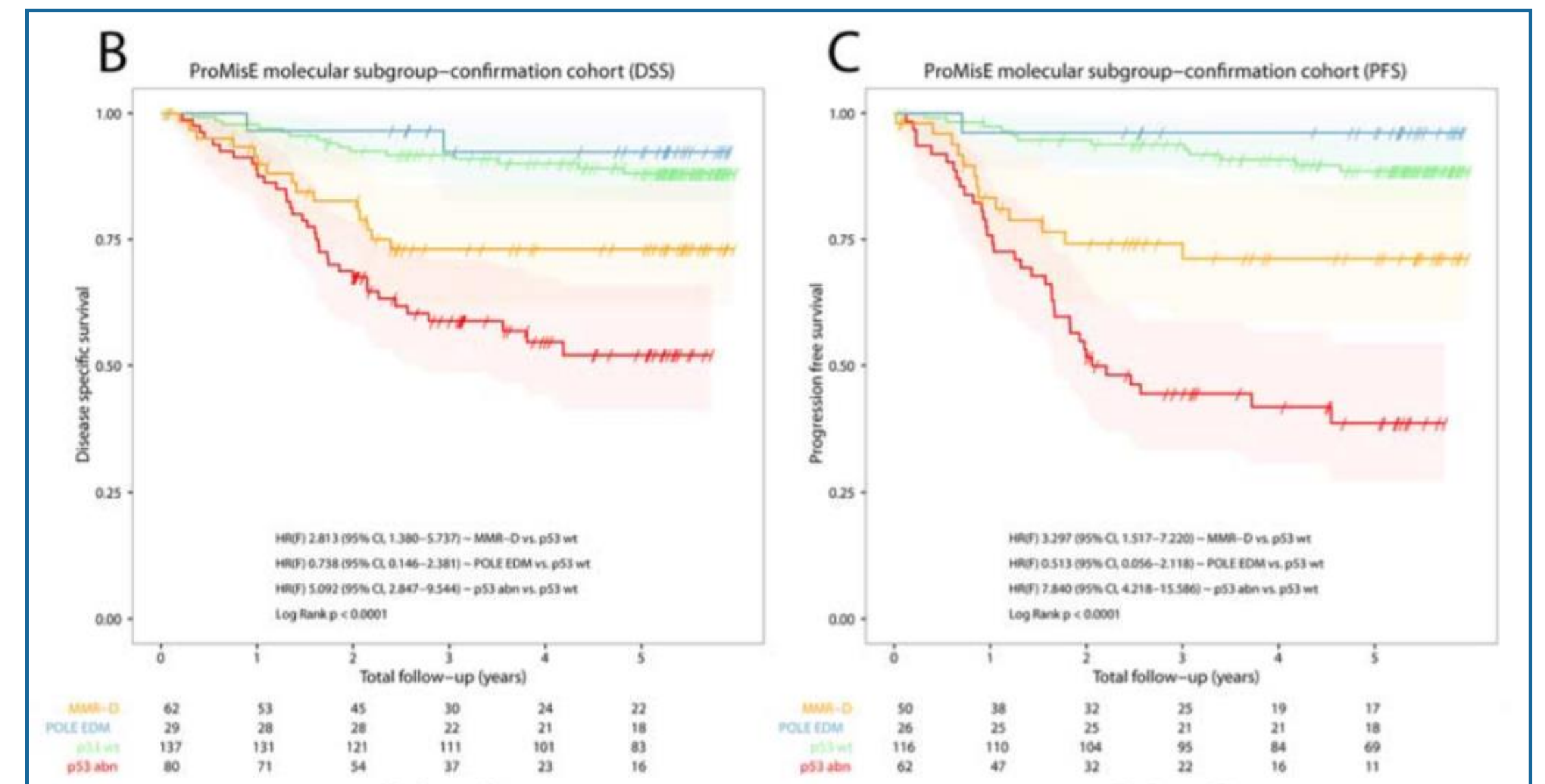
Tarouk et al. Cancer 2017



APPROCHE « PROMISE »

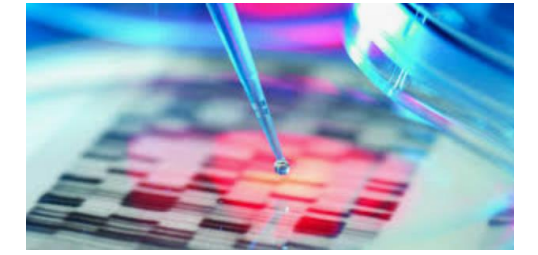


ESMO RISK GROUPS (3)

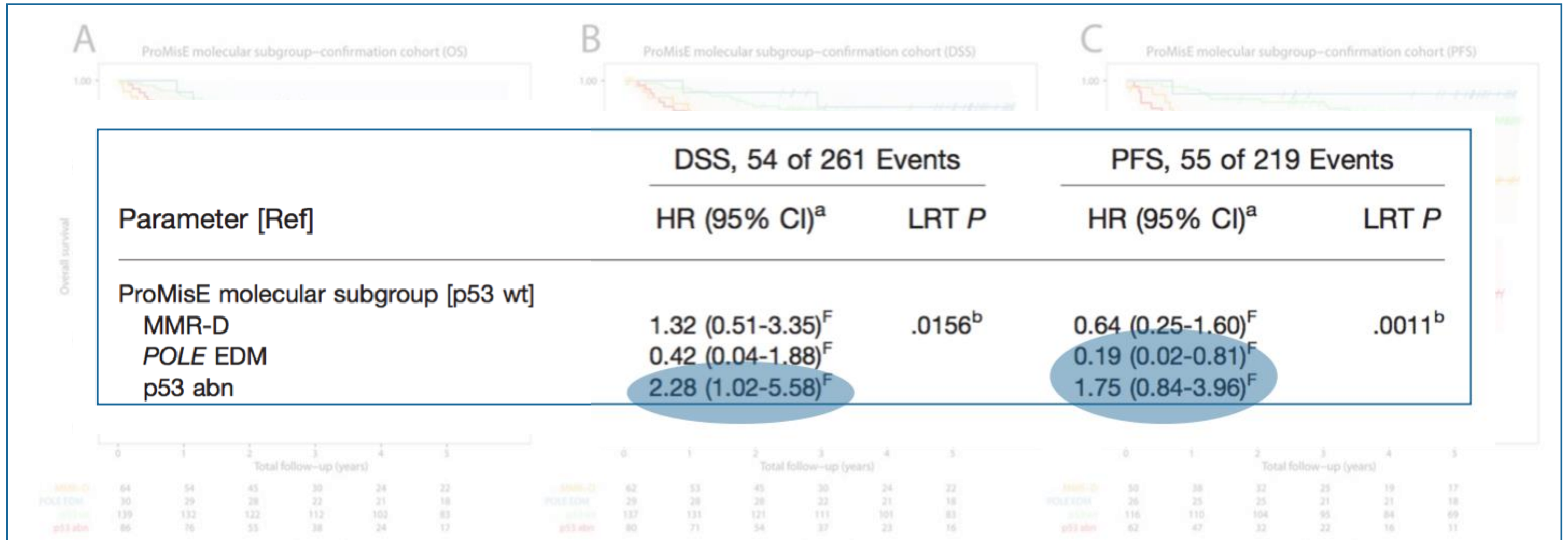


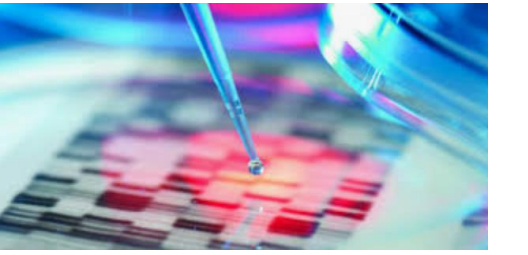
PROMISE RISK GROUPS (4)

Tarouk et al. Cancer 2017



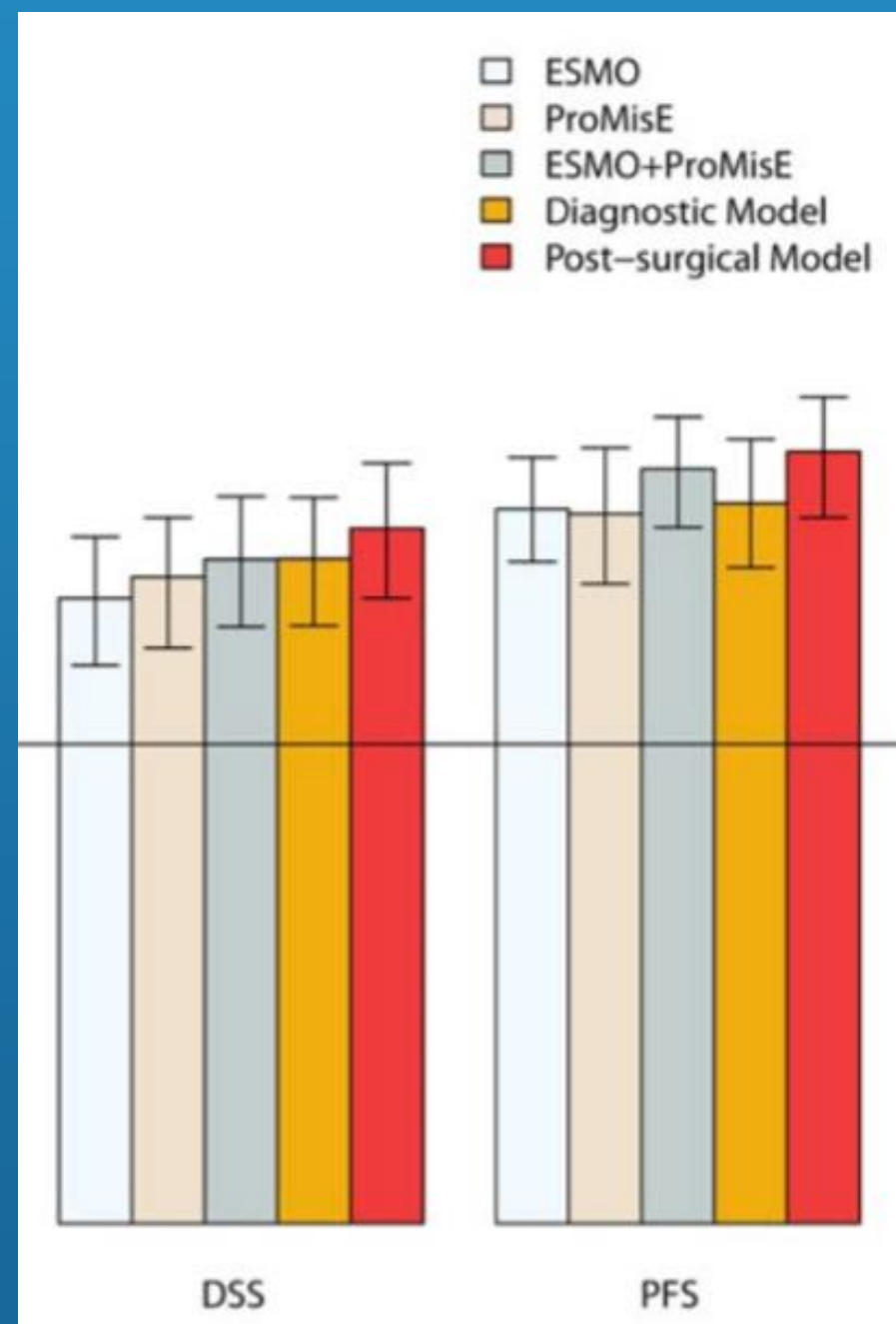
APPROCHE « PROMISE »





IMPLEMENTATION PRACTIQUE - POLE MUTATION

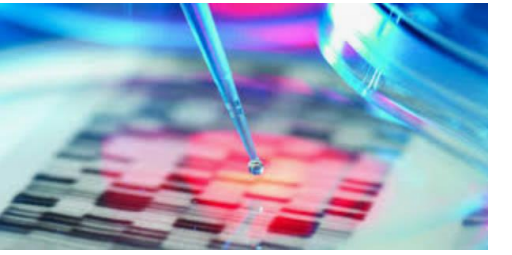
PROMISE



COHORTE 319 PATIENTS - 70% ESMO IR/HR
POLE MUTATION 30 PTS - LN STATUS POSITIVE:
0%
SN OU ABSTENTION DE STADIFICATION

Chang et al. Cancer 2019

Tarouk et al. Cancer 2017



IMPLÉMENTATION PRATIQUE - POLE MUTATION

PORTEC 1 - HIR

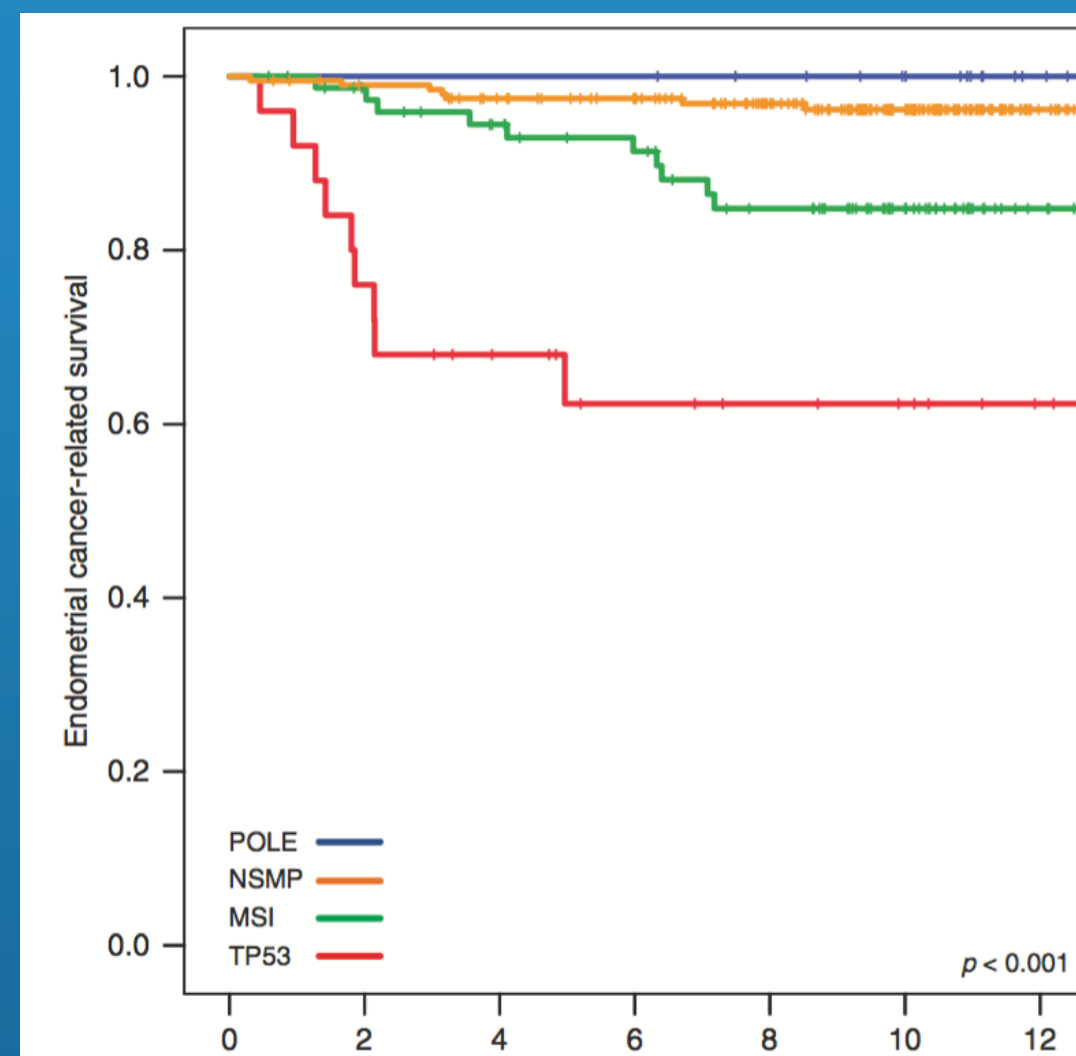
NAT ARM - 10Y RFS

POLE MUTATED : 100%
 POLE NON MUTATED :
 80,1%
 HR: 0,143 - P = 0,049

NO ADJ TREATMENT

Wortman et al. Cancer 2018

PORTEC 2 - HIR



NO ADJ TREATMENT

Wortman et al. Cancer 2018

PORTEC 3 - HR

RT VS CTRT
 5Y DES

POLEmut EC		
RT	1	96,6
CTRT	0	100
NSMP EC		
RT	19	68,9
CTRT	17	81,2

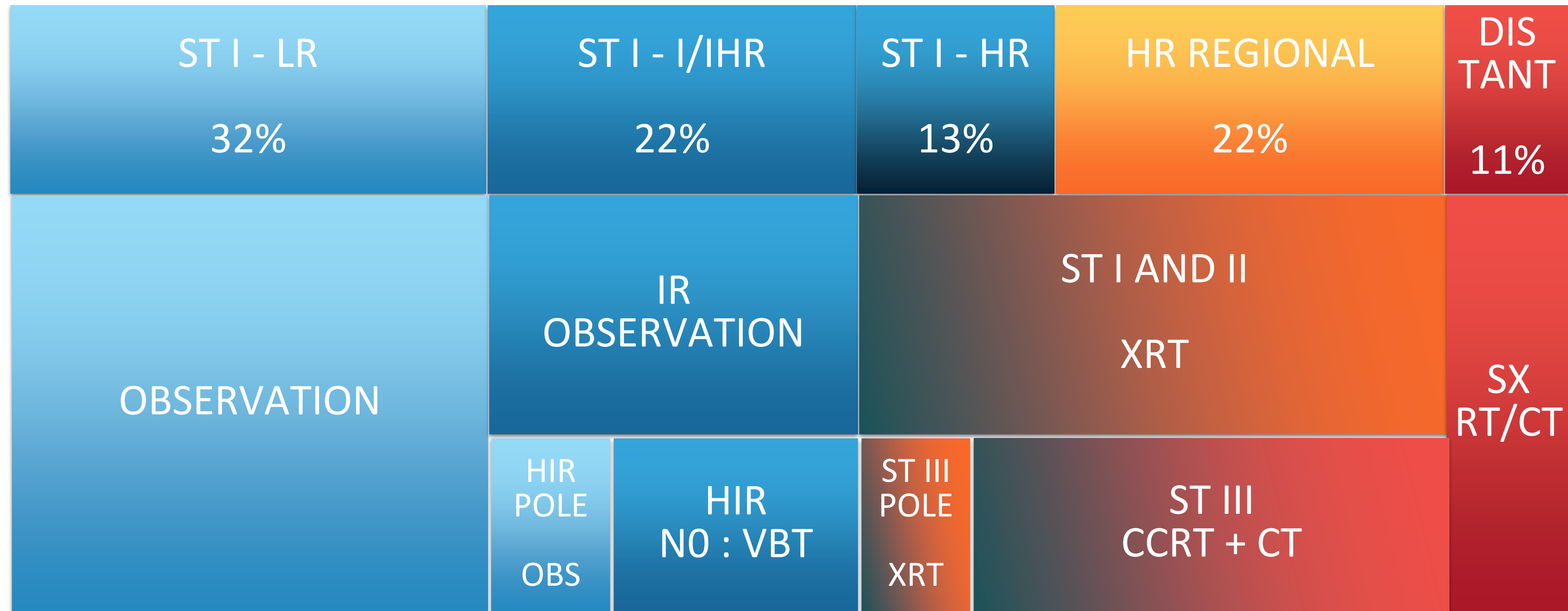
NO INCREMENTAL
 CHEMOTHERAPY

Creutzberg et al. ESMO 2019

CO-MUTATION POLE/P53 IS A RARE EVENT - POLE EFFECT IS
 DOMINANT



ST I - LR 32%	ST I - I/IHR 22%	ST I - HR 13%	HR REGIONAL 22%	DIS TANT 11%
OBSERVATION	IR OBSERVATION	ST I AND II XRT		SX RT/CT
	HIR NO : VBT	ST III CCRT + CT WEIGH FFS BENEF / MORBIDITY		





IMPLÉMENTATION PRATIQUE - P 53 MUTATION

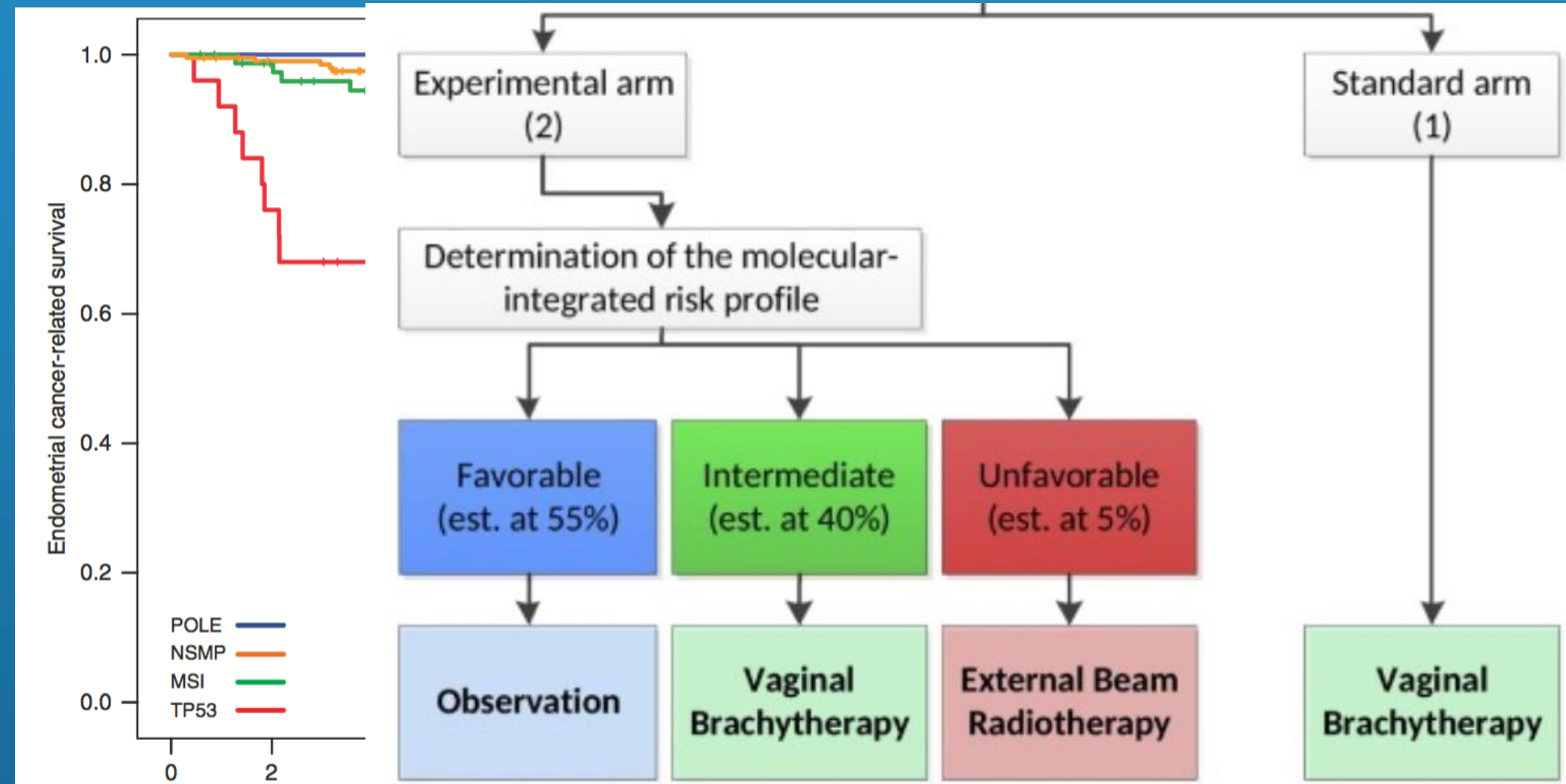
LOW RISK EC

RARE EVENT

2 TO 5% OF LOW RISK
ARE P53 MUTATED

INCONCLUSIVE

PORTEC 4A HIR



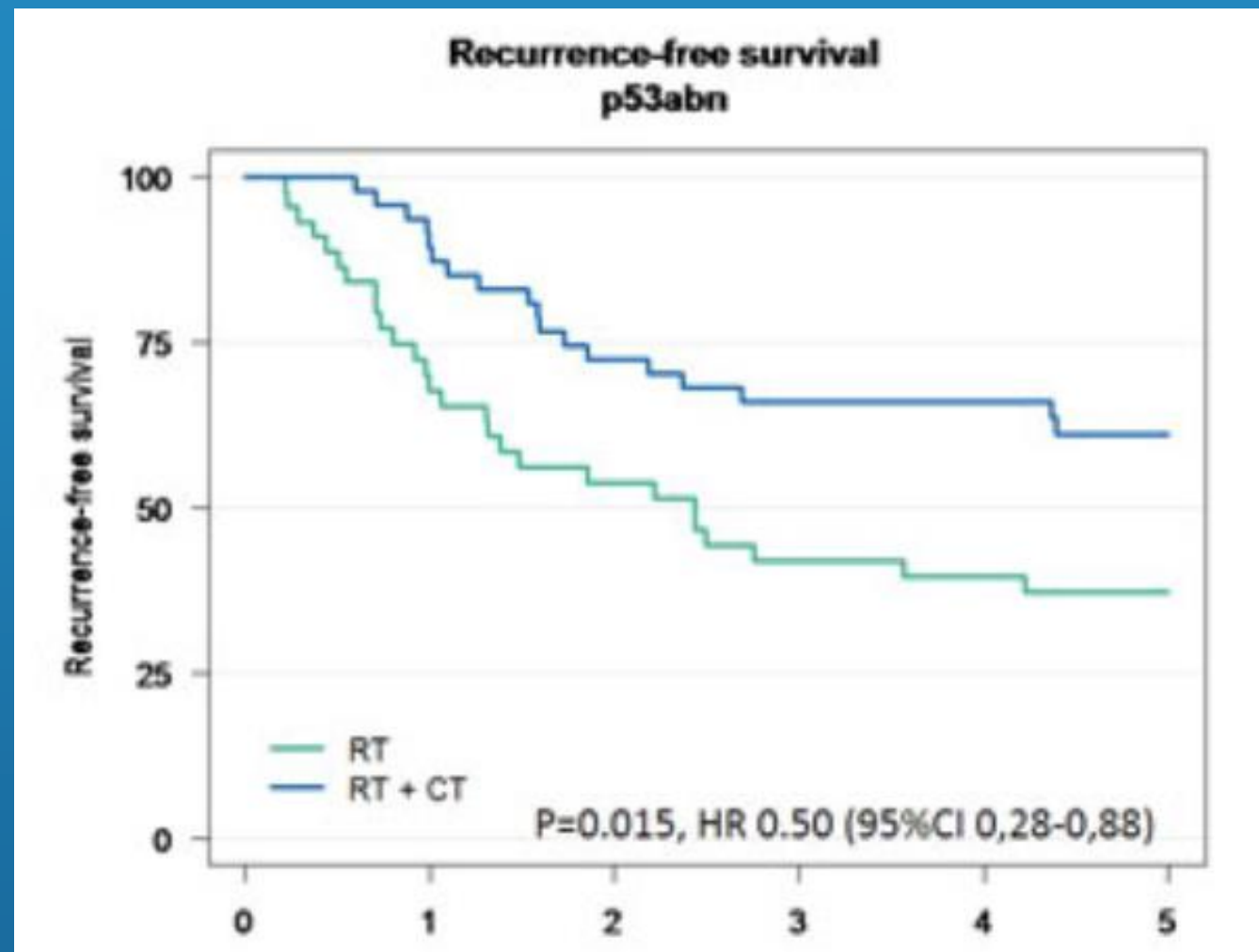
ANALYSIS
S WT
P 0,065)
,35 (P
015)

SURROGATE FOR HR - VBT → XRT (+ CT ?)



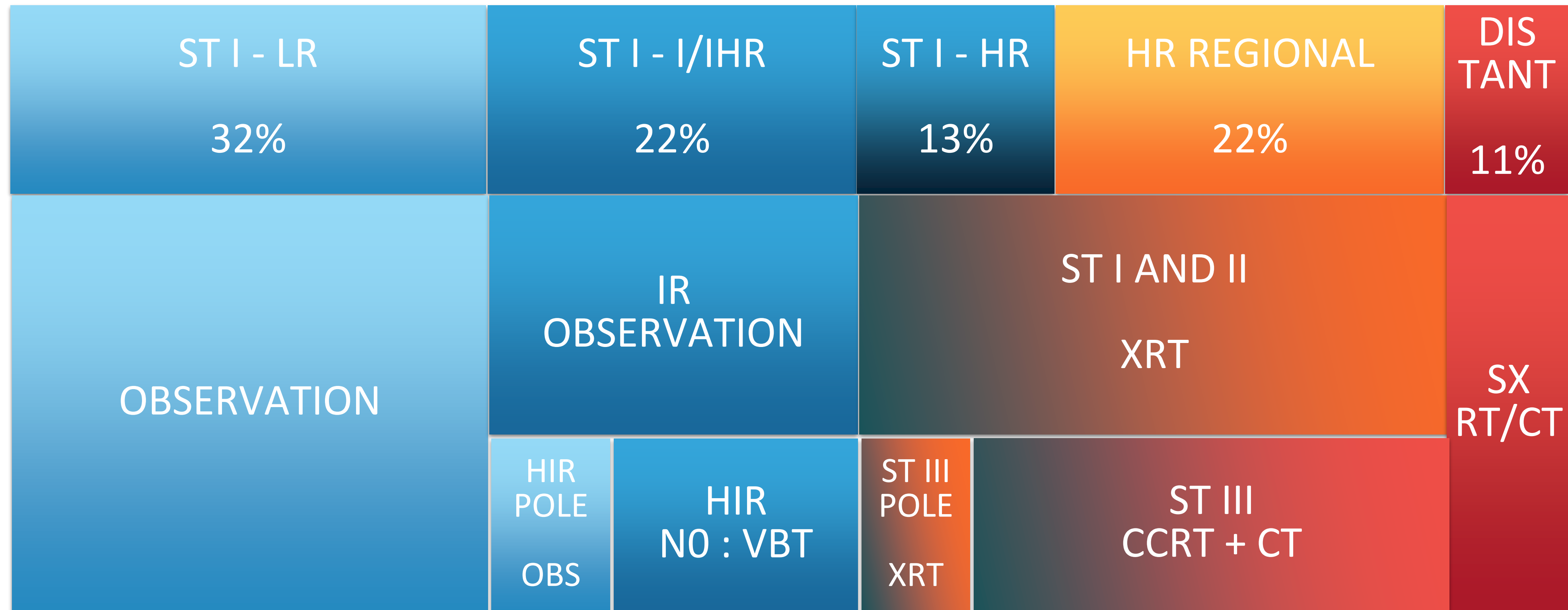
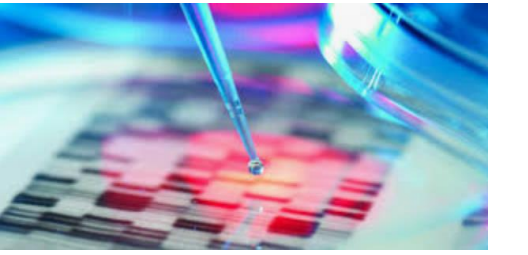
IMPLÉMENTATION PRATIQUE - P 53 MUTATION

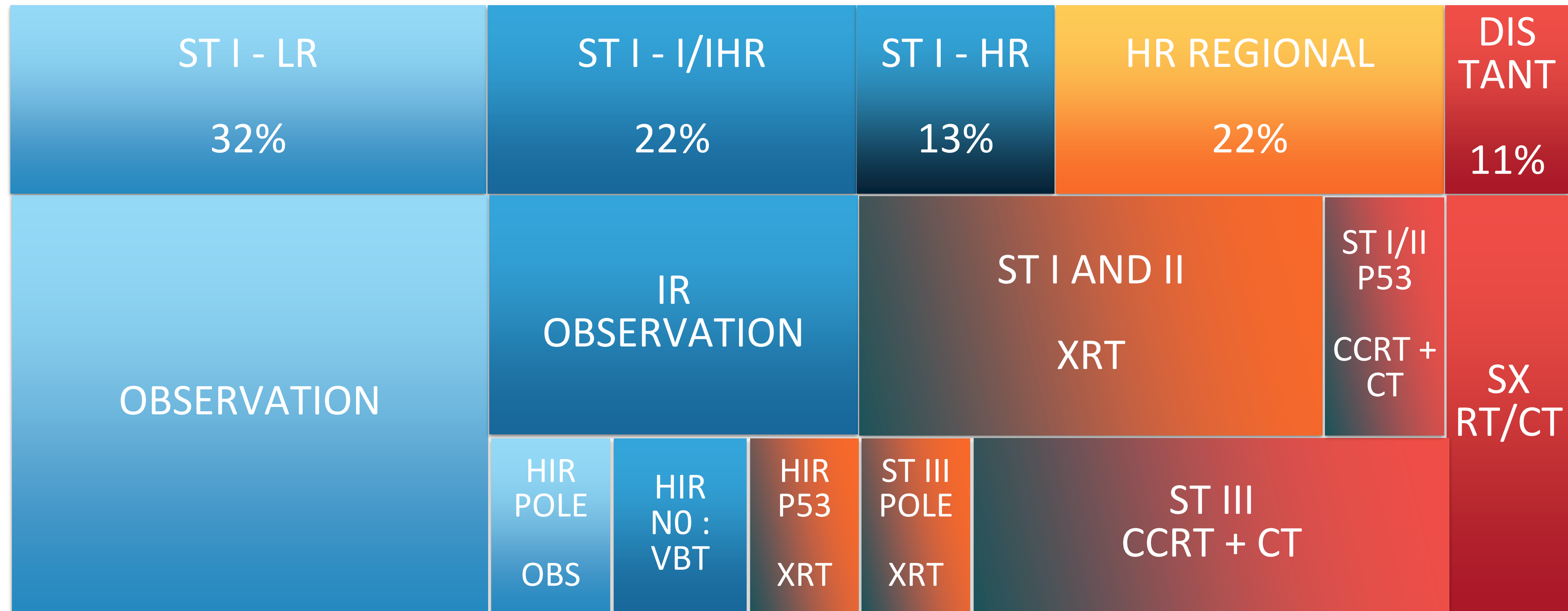
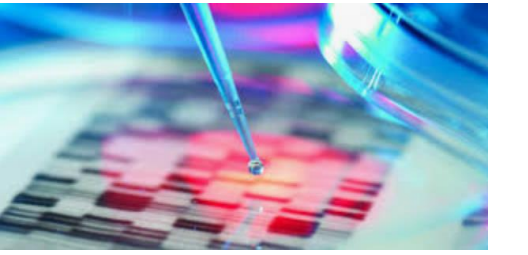
PORTEC 3 HR

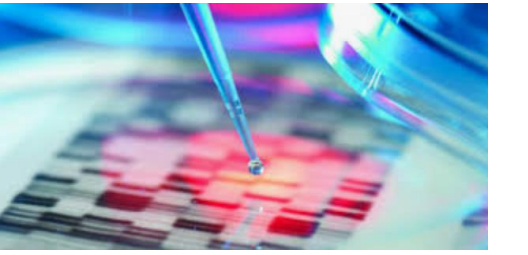


RFS CTRT VS XRT
HR: 0,5 (P 0,015)

CONFIRMS NEED FOR ESCALATION WITH CT AMONGST HR EC







IMPLEMENTATION PRATIQUE - MMR/D

LOW / IR / HIR EC

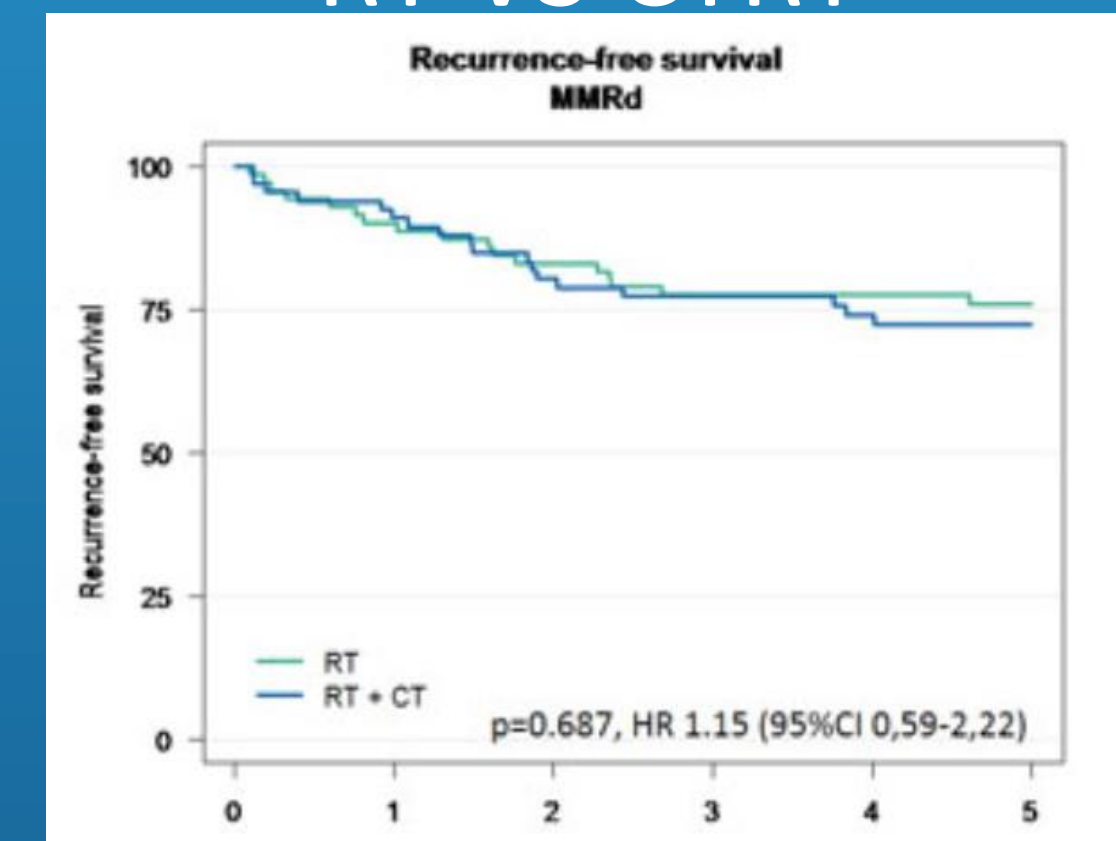
MULTIVARIATE ANALYSIS
MMR/D VS NSMP

OS, PFS, DSS : HR NOT SIGNIFICANT

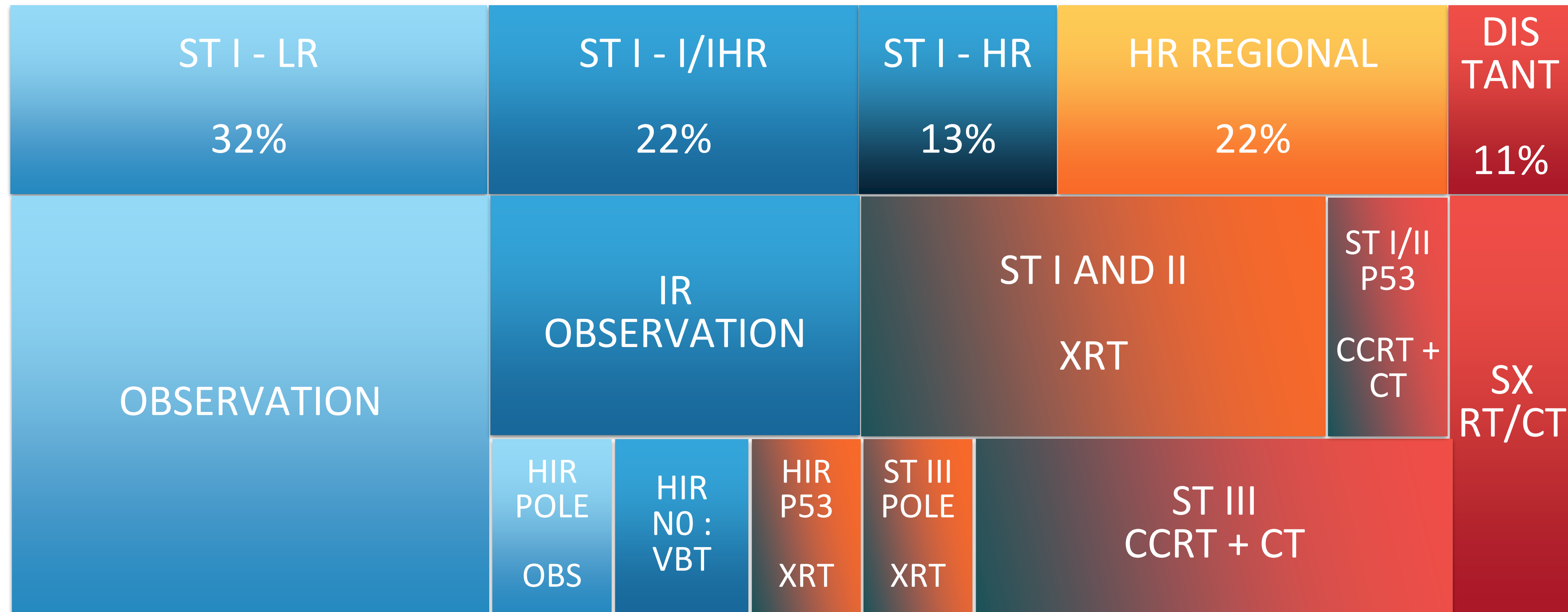
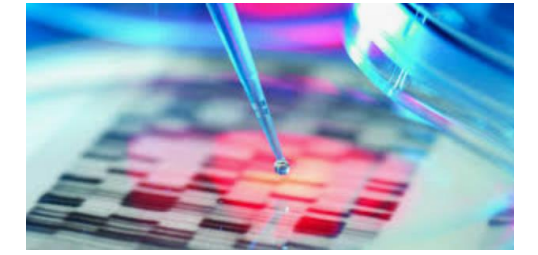
INCONCLUSIVE

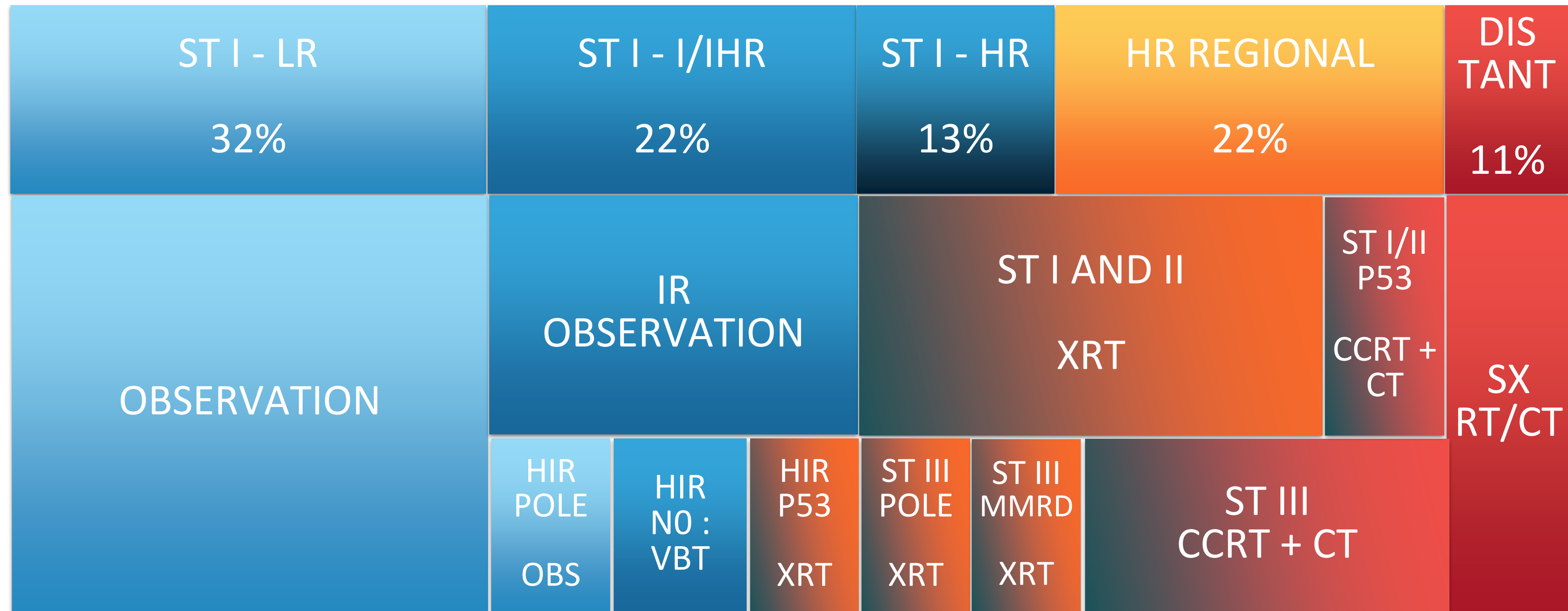
PORTEC 3 - HR

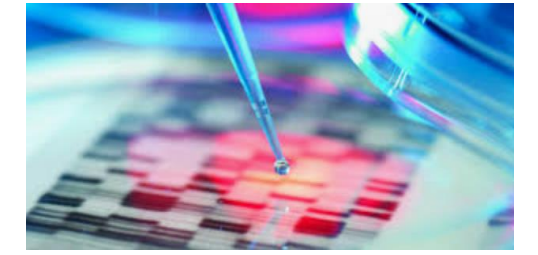
RT VS CTRT



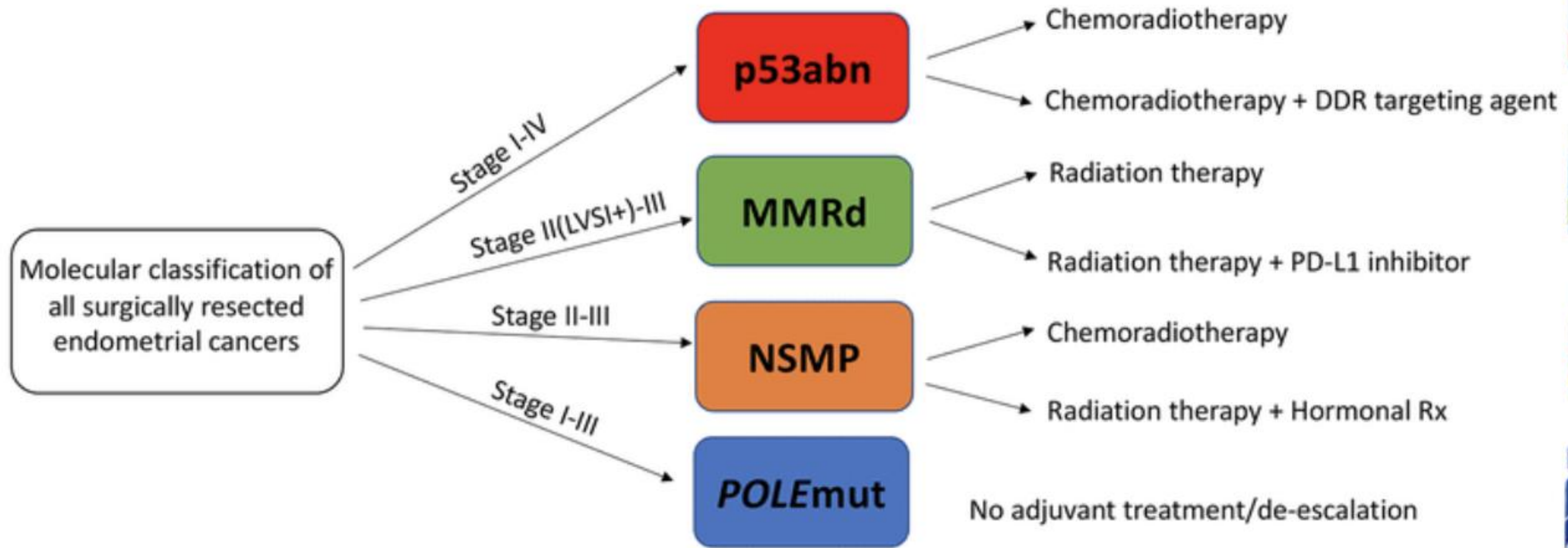
NO INCREMENTAL
CHEMOTHERAPY







TransPORTEC RAINBO Umbrella Trial



France



DGOG



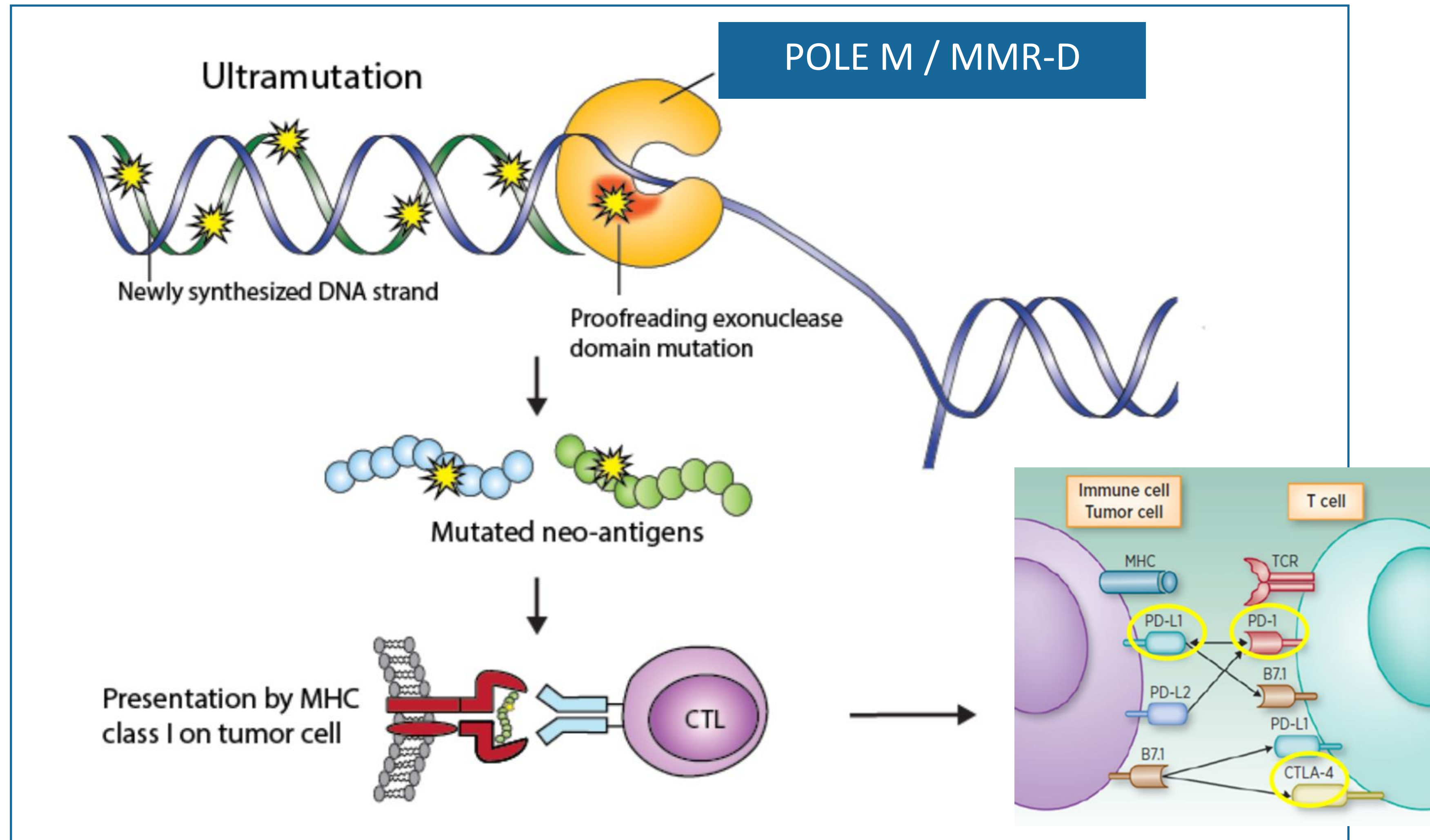
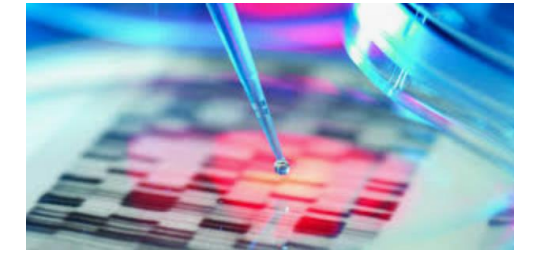
NCRI

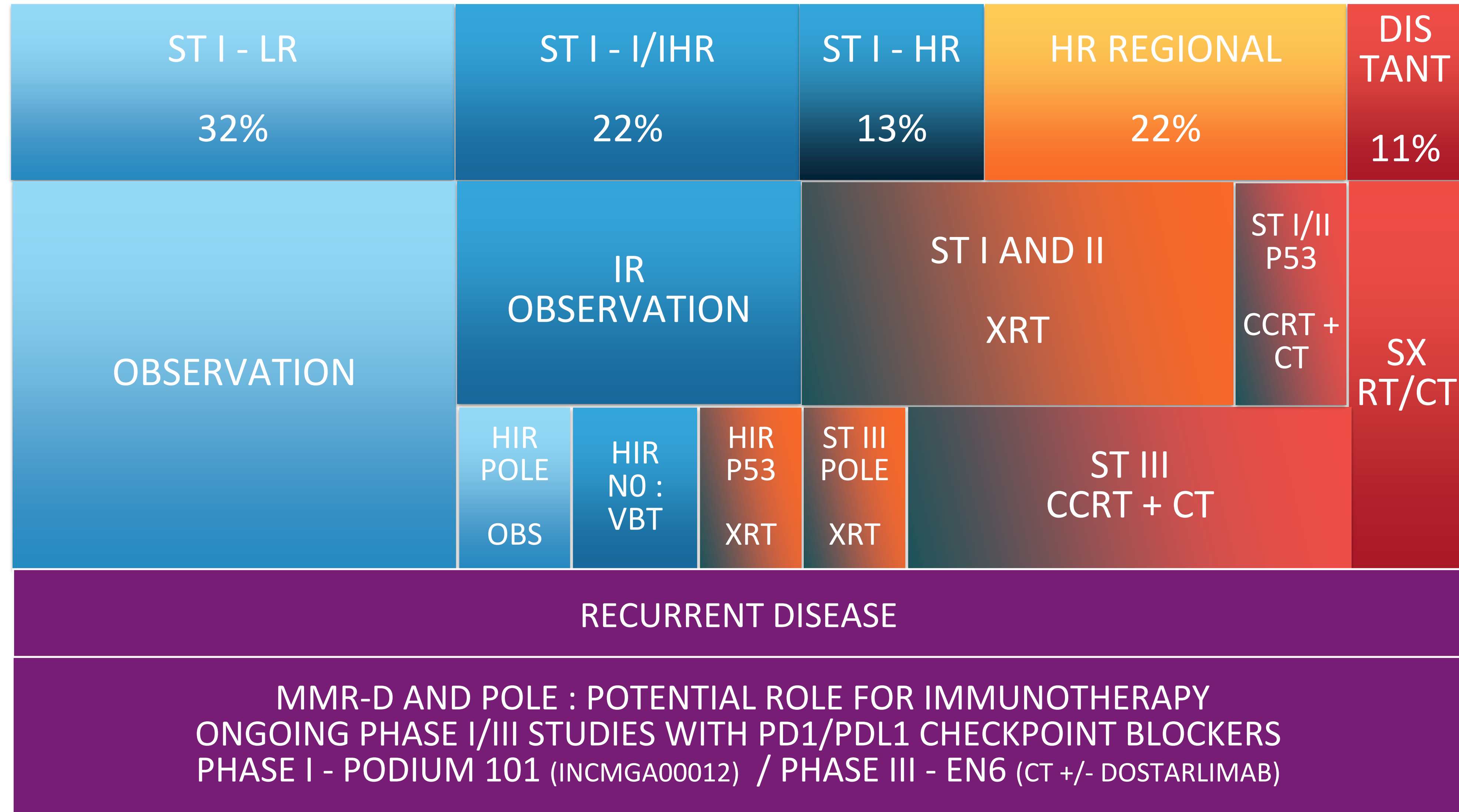
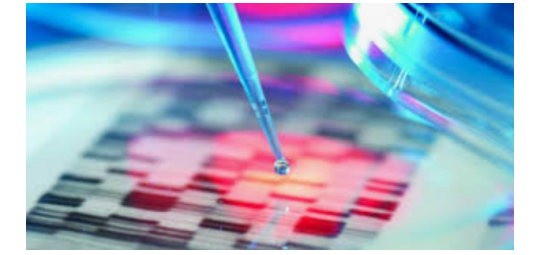


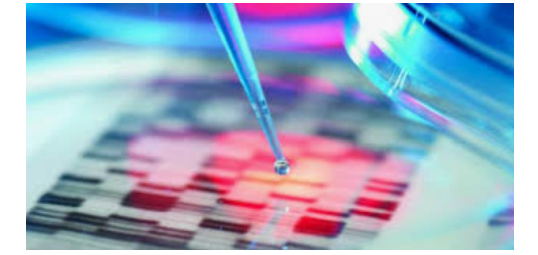
Canada

DDR- DNA damage response

PD-L1 inhibitor- immune checkpoint blockade therapy

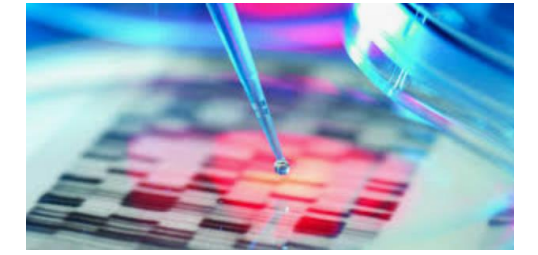






	Keynote-158¹	NCT02912572²	GARNET³	PHAEDRA⁴
Treatment	Pembrolizumab	Avelumab	Dostarlimab	Durvalumab
Phase	1/2	2	1/2	2
Population	Previously treated dMMR-recurrent or persistent EC	dMMR recurrent EC	Previously treated recurrent/advanced dMMR EC	Advanced dMMR EC, 0-3 prior therapies
Patients, n	49	15	125	35
ORR, %	57%	27%	45%	47%
DCR, %	73%	—	—	50% at 24 weeks
mPFS	26 mo	4.4 mo	—	8.3 mo
mOS	12-mo OS= 73%	—	—	NR

NR: not reached 1. O'Malley, et al. Presented at ESMO 2019; 2. Konstantinopoulos et al. *J Clin Oncol.* 2019;37:2786-2794; 3. Oaknin A, et al. Presented at ESMO, 2020, 4. Antill Y et al. *J Immunother Cancer.* 2021 Jun;9(6):e002255.



P53 STATUS: A STRONG NEGATIVE PROGNOSTIC FACTOR IN ENDOMETRIAL CARCINOMA



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INTRODUCTION

Endometrial carcinoma (EC) is the most common gynaecological cancer in developed countries. The recent implementation of molecular classification has changed the approach to risk stratification, distinguishing EC into 4 molecular subgroups: POLE ultramutated, mismatch repair deficient, p53-abnormal (p53abn), non-specific molecular profile. Patients presenting with p53abn have the worst prognosis. We aimed to compare the clinical profile, progression free survival (PFS) and overall survival (OS) according to p53 status.

METHODS

Between January 2019 and October 2022, we conducted a retrospective study of 158 patients with EC treated at the CHU of Liège. The p53 status was determined by immunohistochemistry as wild-type (p53wt) or abnormal (p53abn). Data were available for 154 patients. Factors studied were age, body mass index (BMI), histological subtypes, tumour grade, lymph node status and FIGO stage. Association between p53 status and these factors was assessed using Chi-square or Fisher's exact tests. PFS and OS were represented by the Kaplan-Meier method stratified by p53 status. Cox regression analyses investigated the impact of p53 status and other clinical and tumour characteristics on PFS and OS. Among these characteristics, only those that presented a p-value < 0.10 in Chi-square tests, Fisher's exact tests or in univariate Cox regression analyses, were used in the multivariate stepwise Cox regression. Results were considered significant at the 5% confidence level.

Table 1. – Comparison between clinical and tumour characteristics according to p53 status

Characteristics	p53wt (n=114)	p53abn (n=40)	p-value
Age at diagnosis, mean ± SD (years)	70.1 ± 10.3	70.7 ± 11.9	0.73
BMI, median (P25-P50) (kg/m ²)	28.5 (24.7-33.6)	28.3 (24.1-32.8)	0.71
Histological subtypes, n (%)			<0.0001
Endometrioid	102 (90.3)	20 (54.1)	
Not-endometrioid	11 (9.7)	17 (45.9)	
Tumour grade, n (%)			<0.0001
G1-G2	81 (72.3)	13 (34.2)	
G3	31 (27.7)	25 (65.8)	
Nodal staging, n (%)			0.24*
NO	90 (92.8)	22 (84.6)	
N1-N2	7 (7.2)	4 (15.4)	
FIGO stage, n (%)			0.087*
IA	40 (35.4)	19 (51.4)	
IB	53 (46.9)	10 (27.0)	
II-IVB	20 (17.7)	8 (21.6)	

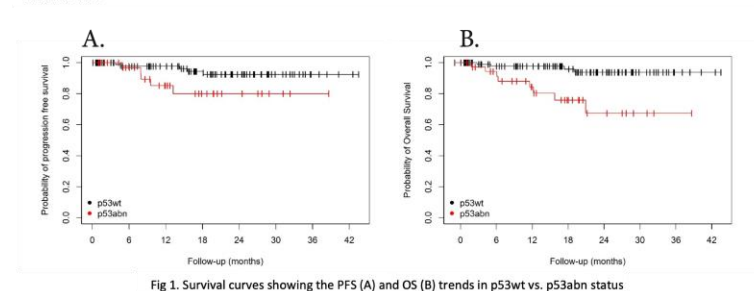
*Fisher exact

RESULTS

Of the 154 patients, 114 were p53wt (74.0%) and 40 were p53abn (26.0%). The p53abn status was associated with worse pathological features. Non endometrioid tumours were found in 45.9% of p53abn compared with 9.70% of p53wt groups (p<0.0001). Grade 3 tumours were observed in 65.8% and 27.7% of p53abn/wt population, respectively (p<0.0001). No association was established between p53 status and nodal stage (p=0.24) or FIGO stage (p=0.087) (Table 1). Regarding PFS, no statistical difference was noted between the two groups (p=0.062) (Table 2 - Fig. 1). This result is confirmed in multivariate analyses (p=0.44). In this model, PFS is associated with age and tumour grade. The risk of recurrence is increased by 8% per additional year (HR=1.08, p=0.029) and multiplied by 11.8 in patients with grade 3 tumours compared to patients with grade 1 and 2 (HR=11.8, p=0.024). OS was significantly reduced in p53abn patients compared to p53wt patients (HR = 6.13, p=0.0032) (Table 2 - Fig. 1). In multivariate analyses, only p53 status is associated with OS. The risk of death is increased by 5.5 in patients with p53abn tumour compared to patients with a wild-type p53 status (HR=5.49, p=0.0067) (Table 2).

Table 2. Cox-regression analyses to identify clinical or tumour characteristics associated with PFS and OS

Variables	Progression Free Survival		Overall Survival	
	Univariate HR (95% CI)	p value	Univariate HR (95% CI)	p value
Age at diagnosis (years)	1.10 (1.03-1.17)	0.0007	1.08 (1.01-1.17)	0.029
BMI (kg/m ²)	0.95 (0.85-1.06)	0.33	1.06 (1.00-1.12)	0.071
p53 IHC			0.99 (0.90-1.08)	0.75
p53wt	1		1	
p53abn	3.27 (0.94-11.4)	0.062	1.67 (0.46-6.13)	0.44
Histological subtypes				
Endometrioid	1		1	
Not-endometrioid	8.34 (2.31-30.0)	0.0012	3.63 (1.14-11.5)	0.029
Tumour grade				
G1-G2	1		1	
G3	12.9 (2.10-78.9)	0.0057	11.8 (1.38-102)	0.024
Nodal staging				
NO	1		1	
N1-N2	0.70 (0.03-15.7)	0.82	1.26 (0.15-10.2)	0.83
FIGO stage				
IA	1		1	
IB	3.84 (0.45-32.0)	0.23	0.77 (0.18-3.41)	0.75
II-IVB	6.62 (0.74-59.3)	0.0032	2.84 (0.18-45.9)	0.14



CONCLUSION

The presence of an abnormal p53 status in patients with EC is a strong negative prognostic factor associated with aggressive clinicopathological features and decreased OS. Therefore, p53 status should be routinely determined to define the patient's prognosis.

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No conflict of interest

Agreement between immunohistochemistry and molecular techniques to assess microsatellite instability and p53 status in endometrial cancer

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INTRODUCTION

Endometrial carcinoma (EC) is the most common gynaecological cancer in developed countries. The recent implementation of molecular classification has changed the approach to risk stratification. Microsatellite instability (MSI) and p53 status are major prognosis and predictive biomarkers to be determined for this classification. Immunohistochemistry (IHC) and molecular techniques are used to assess them. We aimed to compare the agreement between these two techniques for evaluating MSI and p53 status.

Table 1. Molecular profile of EC tumors (n=158)

Variables	No. of patients	Frequency, n (%)
POLE	136	
Wildtype		125 (91.9)
Ultra-mutated		11 (8.09)
MMR IHC	156	
MMRd		53 (34.4)
MMRp		101 (65.6)
MSI PCR	118	
MSS		75 (63.6)
MSI-high		43 (36.4)
p53 IHC	154	
Normal		114 (74.0)
Abnormal		40 (26.0)
TP53	129	
Normal		98 (76.0)
Mutated		31 (24.0)

POLE: Polymerase Epsilon, MMR: Mismatch Repair, MMRd: Mismatch Repair deficient, MMRp: Mismatch Repair proficient, MSS: MicroSatellite Stable

METHODS

Between January 2019 and October 2022, we conducted a retrospective study of 158 patients treated for EC (all stages) at the CHU of Liège. Among the 158 patients, 118 patients had both results carried out by IHC and polymerase chain reaction (PCR) analyses for MSI status. Concerning p53 status, 126 patients had both results established by IHC and next generation sequencing (NGS). McNemar's test and Cohen's Kappa coefficient were used to evaluate the agreement between IHC and molecular techniques (gold standard). Sensitivity, specificity and accuracy were also calculated.

RESULTS

The molecular profile of EC tumors is presented in Table 1. Regarding MSI status, the same proportion of MSI was detected by IHC (40.7%) and by PCR (36.4%) (p = 0.17). Sensitivity was 90.7% and specificity was 88.0%, yielding a global accuracy level of 89.0% (Table 2). Cohen's Kappa was 0.77 (95% CI: 0.65-0.89).

Table 2. Agreement between MMR IHC status and MSI PCR testing (n=118)

MMR IHC status	MSI PCR	
	MMRd	MSS
MMRd	39	9
MMRp	4	66
Sensitivity	90.7% (95% CI: 77.9-97.4)	
Specificity	88.0% (95% CI: 78.4-94.4)	
Accuracy	89.0% (95% CI: 81.9-94.0)	
Cohen's Kappa	0.77 (95% CI: 0.65-0.89)	

For p53 status, the proportion of p53-mutated type by IHC (23.0%) and by NGS (27.8%) was comparable (p=0.20). Specificity and sensitivity were 85.6% and 72.4% respectively, with an accuracy of 82.5% (Table 3). Cohen's Kappa was 0.54 (95% CI: 0.37-0.71).

Table 3. Agreement between p53 IHC and TP53 NGS analysis (n=126)

p53 IHC	TP53 mutation	
	Present	Absent
Abnormal	21	14
Normal	8	83
Sensitivity	72.4% (95% CI: 52.8-87.3)	
Specificity	85.6% (95% CI: 76.9-91.9)	
Accuracy	82.5% (95% CI: 74.8-88.7)	
Cohen's Kappa	0.54 (95% CI: 0.37-0.71)	

CONCLUSIONS

Concerning the determination of MSI status, IHC and PCR showed equivalent diagnostic performance. However, for the p53 status, the agreement between IHC and NGS methods was only moderate which would imply that they cannot be used interchangeably. Further studies are needed to explore the reasons underlying these observations.

No conflict of interest

Int J Mol Sci. 2023 Mar 2;24(5):4866. doi: 10.3390/ijms24054866.

Diagnostic Performance of Immunohistochemistry Compared to Molecular Techniques for Microsatellite Instability and p53 Mutation Detection in Endometrial Cancer

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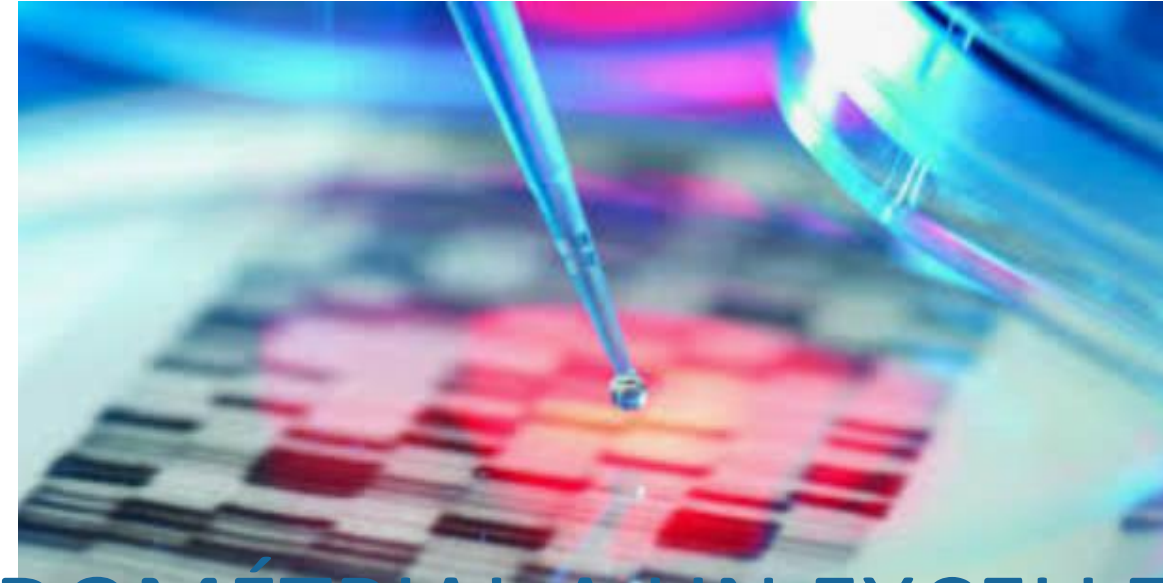
Affiliations [+](#) expand

PMID: 36902292 PMID: PMC10002995 DOI: 10.3390/ijms24054866

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Abstract

Molecular algorithms may estimate the risk of recurrence and death for patients with endometrial cancer (EC) and may impact treatment decisions. To detect microsatellite instabilities (MSI) and p53 mutations, immunohistochemistry (IHC) and molecular techniques are used. To select the most appropriate method, and to have an accurate interpretation of their results, knowledge of the performance characteristics of these respective methods is essential. The objective of this study was to assess the diagnostic performance of IHC versus molecular techniques (gold standard). One hundred and thirty-two unselected EC patients were enrolled in this study. Agreement between the two diagnostic methods was assessed using Cohen's kappa coefficient. Sensitivity, specificity, positive (PPV) and negative predictive values (NPV) of the IHC were calculated. For MSI status, the sensitivity, specificity, PPV and NPV were 89.3%, 87.3%, 78.1% and 94.1%, respectively. Cohen's kappa coefficient was 0.74. For p53 status, the sensitivity, specificity, PPV, and NPV were 92.3%, 77.1%, 60.0% and 96.4%, respectively. Cohen's kappa coefficient was 0.59. For MSI status, IHC presented a substantial agreement with the polymerase chain reaction (PCR) approach. For the p53 status, the moderate agreement observed between IHC and next generation sequencing (NGS) methods implies that they cannot be used interchangeably.



LE CANCER ENDOMÉTRIAL A UN EXCELLENT PRONOSTIC

LES VARIABLES HISTO ONT UN HAUT DEGRÉ DE VARIABILITÉ INTEROBSERVATUER - DES VARIABLES PLUS ROBUSTES SONT NÉCESSAIRES

LA BIOMOL IDENTIFIE EFFICACEMENT DES SOUS-GROUPES DE RISQUES - LENT ET COÛTEUX - IHC EST UNE ALTERNATIVE À LA BIOMOL

EC AVEC MUTATIONS POLE M ET/OU MMR-D : DÉESCALADE THÉRAPEUTIQUE PEUT ÊTRE DISCUTÉE/ADOPTÉE (OBS VS VBT, XRT VS CTRT)

P53 M EC ONT UN PRONOSTIC TRÈS DÉFAVORABLE - CONSOLIDE L'INDICATION DE CTRT(PORTEC3) CHEZ LES HR EC

PAS DE DATA PROSPECTIFS SUPPORTANT CTRT IN LR/IR/HIR EC

MMR-D/MSI-H ET POLE NEOANTIGENS/TIL'S/PDL-1 PROFIL SUPPORTE L'UTILISATION DE IT EN RECHUTE PRÉTRAITÉE (PD1/PDL1 CPI)



THANK YOU

CANCER ENDOMÉTRIAL : IMPLÉMENTATION CLINIQUE DU PROFIL GÉNÉTIQUE

F KRIDELKA, F GOFFIN, A KAKKOS, CH GENNIGENS, E GONNE, CL PLEYERS, J HERMESSE, V BOURS,
AND K DELBEQUE.

K SEGERS

S BROUERS, V DUC, L KEMPENEER, MC LHOTE, M TYCHON AND C WILLEMS

ASS: A DHEUR, A SALMON

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