



STANDARD TREATMENTS AND NEW DIRECTIONS IN GYNAECOLOGICAL CANCERS

MILANO June 26th-29th, 2025

Responsabili Scientifici:
NICOLETTA COLOMBO, FRANCESCO RASPAGLIESI



Biomarker testing in advanced OC: the pathologist's role

Elena Guerini Rocco

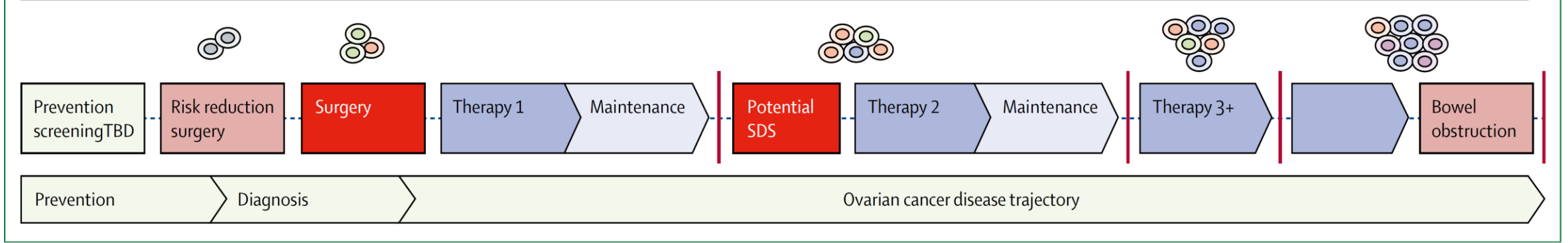
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Milan, Italy

DISCLOSURES

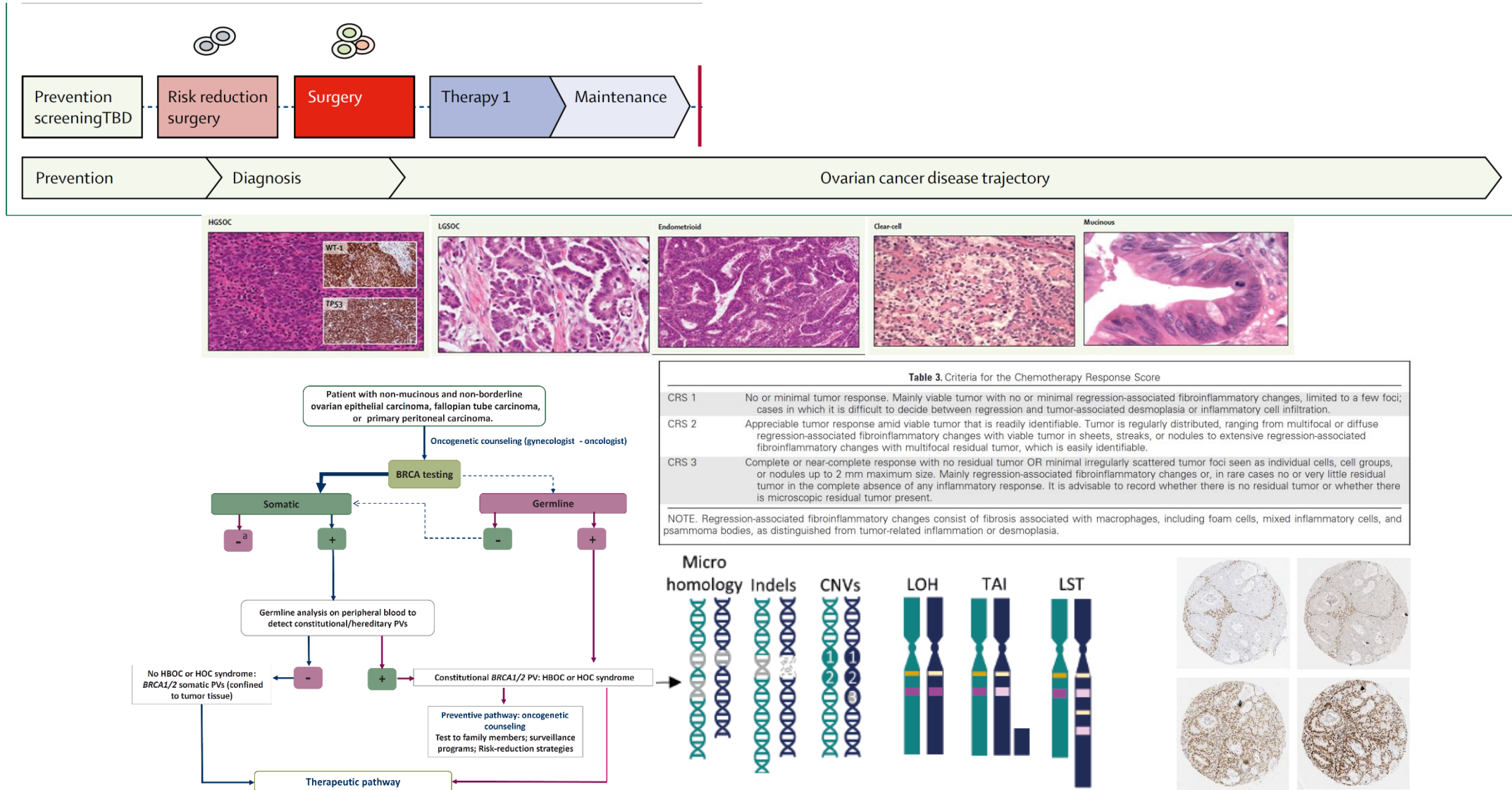
Relevant relationship (advisory fees, honoraria, travel accommodation and expenses, grants and non-financial support):

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The Pathologist's Role in Advanced Ovarian Cancer (OC)



The Pathologist's Role in advanced OC



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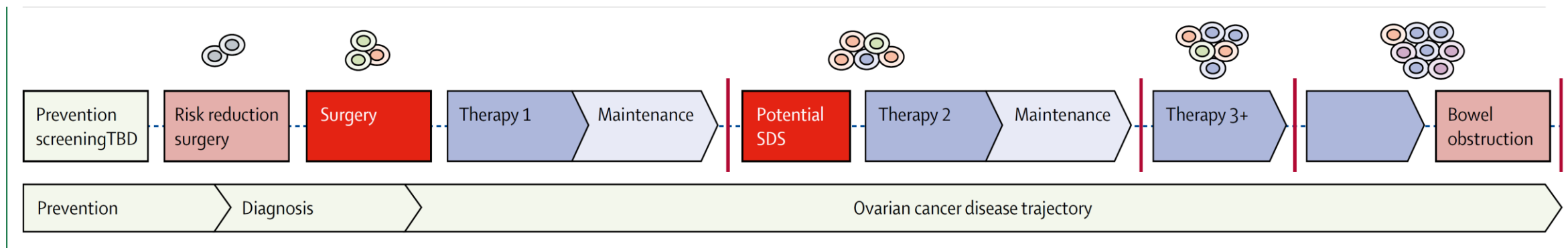
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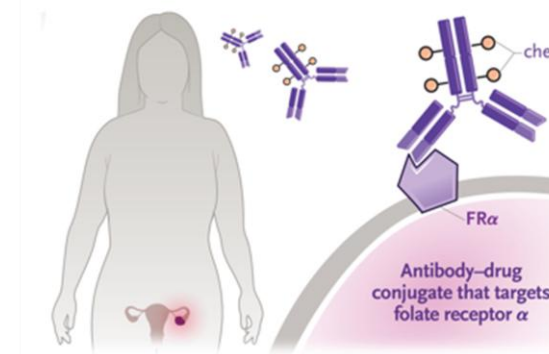
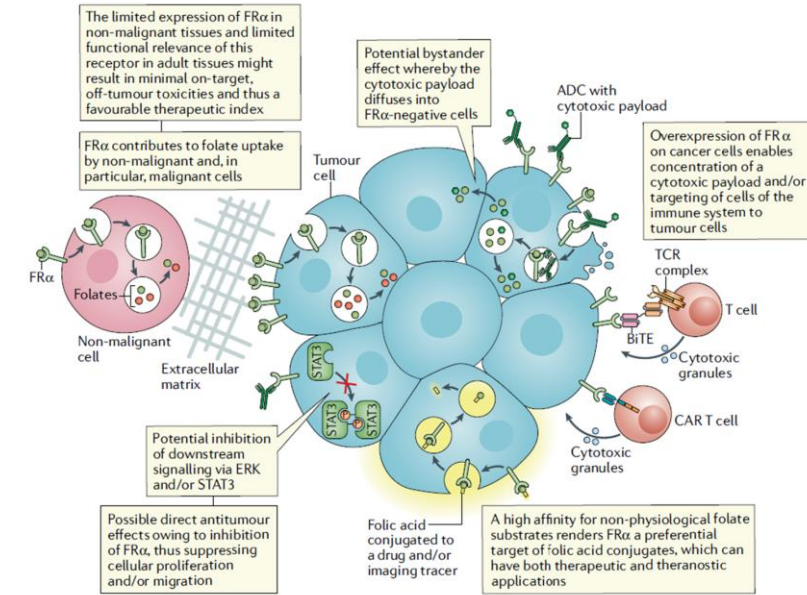
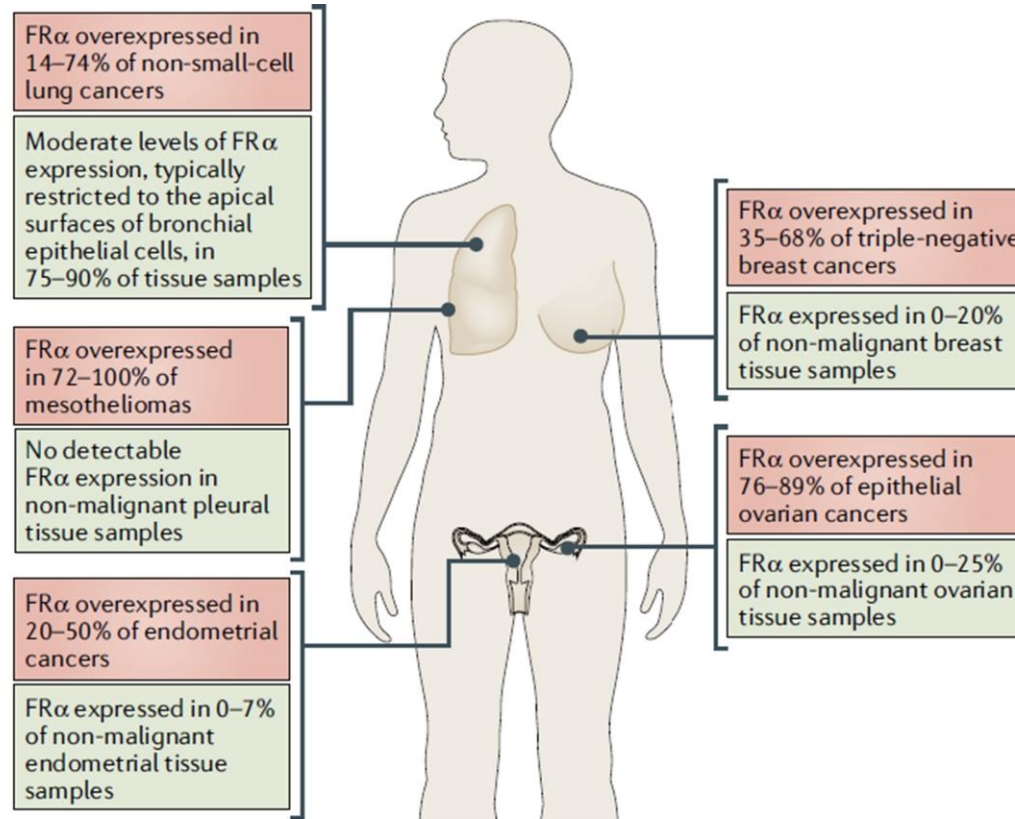
The Pathologist's Role in advanced OC



- FRalfa testing
- What (if) else?

FRalfa

- Folate Receptor 1 protein (FOLR1) / Folate Receptor alpha (FR α)
 - cell surface protein encoded by the FOLR1 gene



FRalfa in Ovarian Cancers

- Folate Receptor 1 protein (FOLR1) / Folate Receptor alpha (FRα)

Table 1
Cohort characteristics for the population of patients undergoing standard of care testing for FRα immunohistochemistry.

	All patients (n = 425)	FRα negative (n = 271)	FRα positive (n = 154)	OR/Beta	p
Age, years (Median)	67	66.8	68.2	1.39 [−0.79; 3.57]	0.21
Histology of tumor (N, %)					
High grade serous	199 (46.8 %)	97 (35.8 %)	102 (66.2 %)	3.54 [2.34; 5.39]	0.000000001
Serous NOS	73 (17.2 %)	48 (17.7 %)	25 (16.2 %)	0.9 [0.52; 1.51]	0.69
Endometrioid	11 (2.6 %)	11 (4.1 %)	0 (0 %)	0.07 [0; 0.56]	0.006
Carcinosarcoma	8 (1.9 %)	7 (2.6 %)	1 (0.6 %)	0.36 [0.04; 1.66]	0.21
Clear cell	7 (1.6 %)	7 (2.6 %)	0 (0 %)	0.11 [0; 0.94]	0.042
Low grade serous	5 (1.2 %)	5 (1.8 %)	0 (0 %)	0.15 [0; 1.33]	0.098
Mixed	4 (0.9 %)	2 (0.7 %)	2 (1.3 %)	1.61 [0.25; 10.58]	0.6
Uterine serous	2 (0.5 %)	1 (0.4 %)	1 (0.6 %)	1.67 [0.13; 20.73]	0.66
Cervix NOS	1 (0.2 %)	1 (0.4 %)	0 (0 %)	0.57 [0; 11.04]	0.72
Mucinous	1 (0.2 %)	0 (0 %)	1 (0.6 %)	5.02 [0.26; 739.81]	0.28
Mucinous borderline	1 (0.2 %)	1 (0.4 %)	0 (0 %)	0.56 [0; 10.77]	0.71
NOS	113 (26.6 %)	91 (33.6 %)	22 (14.3 %)	0.33 [0.2; 0.55]	0.000009

Table 1
Patient characteristics and associations with folate receptor alpha (FRα) status.

Characteristic	LGSC (total n = 89)	FRα-negative (n = 53)	FRα-high (n = 36)	P value ¹	SBT (total n = 42)	FRα-negative (n = 33)	FRα- high (n = 9)	P value ¹
%FRα-positive cells (median, range)	60.1% (0.0–100.0%)	24.1% (0.0–72.9%)	85.5% (77.5%–100.0%)		21.0% (0.0–93.2%)	12.2% (0.0–73.4%)	83.0% (75.0%–93.2%)	

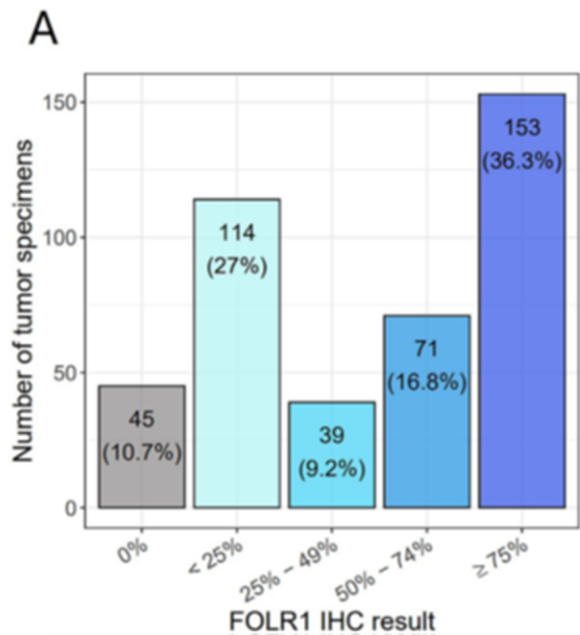


Table 1. Efficacy of MIRV in FRα-positive platinum-resistant ovarian cancer.

	FRα SCORE	ORR, %		MPFS, MO		MOS, MO	
		ALL PATIENTS	FRα HIGH	ALL PATIENTS	FRα HIGH	ALL PATIENTS	FRα HIGH
IMGN853-0401 Phase I (n=46) ⁵¹	PS2+	26	26	4.8	NA	NA	NA
FORWARD I MIRV vs ICC Phase III (n=243) ^{55,56}	10X	22 vs 12	24 vs 10	4.1 vs 4.4 HR 0.98 (0.73-1.31) P=.89	4.8 vs 3.3 HR 0.69 (0.48-1.0) P=.049	16.4 vs 14.0 HR 0.82 (0.58-1.15) P=.24	17.3 vs 12.0 ^a HR 0.71 (0.49-1.02) P=.06
	PS2+ (Exploratory)	NA	29 vs 6	NA	5.6 vs 3.2 HR 0.54 (0.33-0.89) P=.01	NA	16.4 vs 11.4 HR 0.67 (0.41-1.19) P=.12
SORAYA Single arm (n=106) ⁵⁷	PS2+	†	32	†	4.3	†	13.8
MIRASOL MIRV vs ICC Phase III (n=453) ⁵⁸	PS2+	†	42 vs 16 OR 3.81 P< .0001	†	5.6 vs 3.9 HR 0.65 (0.52-0.81) P< .0001	†	16.4 vs 12.7 HR 0.67 (0.50-0.89) P=.0046
FORWARD II MIRV + BEV Phase Ib/III (n=94) ⁵⁹	PS2 +	44	48	8.2	9.7	NA	NA

PS2+ score: ≥25% of tumor cells with ≥2+ staining intensity (low=25%-50%, medium=50%-74%, high ≥75%).
10X score: ≥50% of tumor cells with any FRα staining visible at ≤10 microscope objective (medium=50%-74%, high ≥75%).
†All patients were FRα high.
^aFinal analysis.
Abbreviations: BEV, bevacizumab; ICC, investigator's choice of chemotherapy; FRα, Folate receptor alpha; MIRV, Mirvetuximab soravtansine; mOS, median overall survival; mPFS, median progression-free survival; NA, not available; OR, odds ratio; ORR, overall response rate.

Mirvetuximab Soravtansine in FRα-Positive, Platinum-Resistant Ovarian Cancer

K.N. Moore, A. Angelergues, G.E. Konecny, Y. García, S. Banerjee, D. Lorusso, J.-Y. Lee, J.W. Moroney, N. Colombo, A. Roszak, J. Tromp, T. Myers, J.-W. Lee, M. Beiner, C.M. Cosgrove, D. Cibula, L.P. Martin, R. Sabatier, J. Buscema, P. Estévez-García, L. Coffman, S. Nicum, L.R. Duska, S. Pignata, F. Gálvez, Y. Wang, M. Method, A. Berkenblit, D. Bello Roufai, and T. Van Gorp, for Gynecologic Oncology Group Partners and the European Network of Gynaecological Oncological Trial Groups*

“Among participants with platinum-resistant, **FRα-positive ovarian cancer**, treatment with MIRV showed a significant benefit over chemotherapy with respect to progression-free and overall survival and objective response”

“[...]high FRα tumor expression (≥75% of cells with ≥2+ staining intensity)”

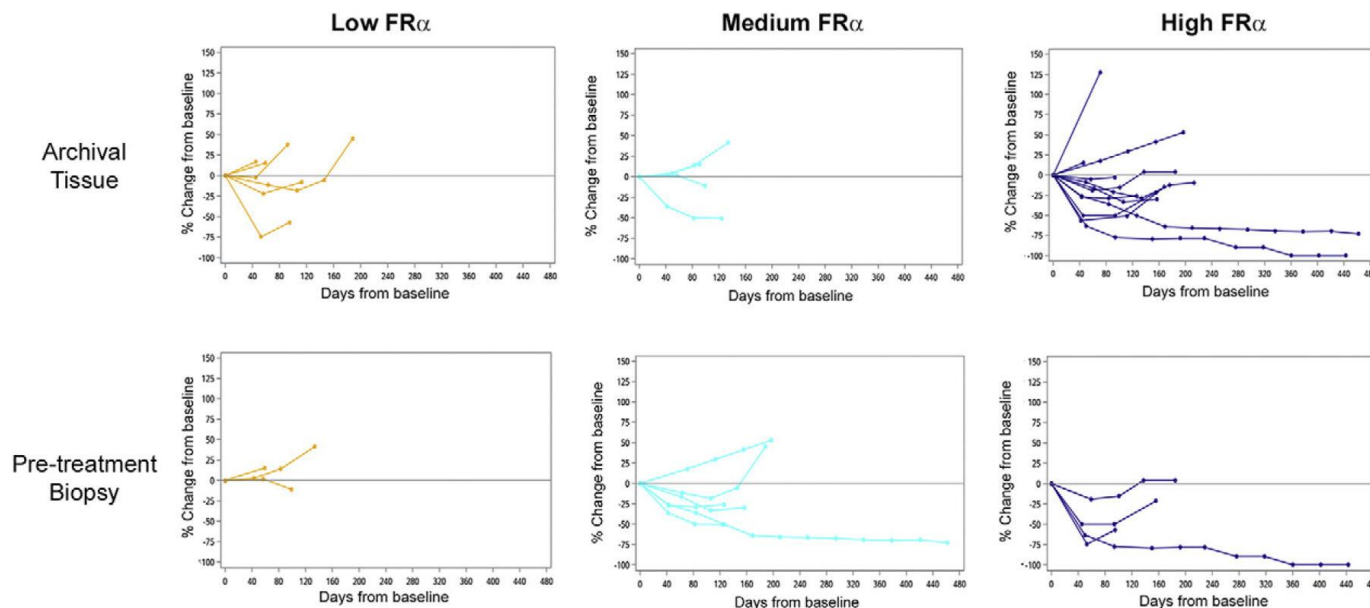
FRalfa Testing

■ WHERE / WHEN (i.e. timing / sample)

- *Platinum-resistant high-grade serous epithelial ovarian, fallopian tube, or primary peritoneal cancer who have received one to three prior systemic treatment regimens*

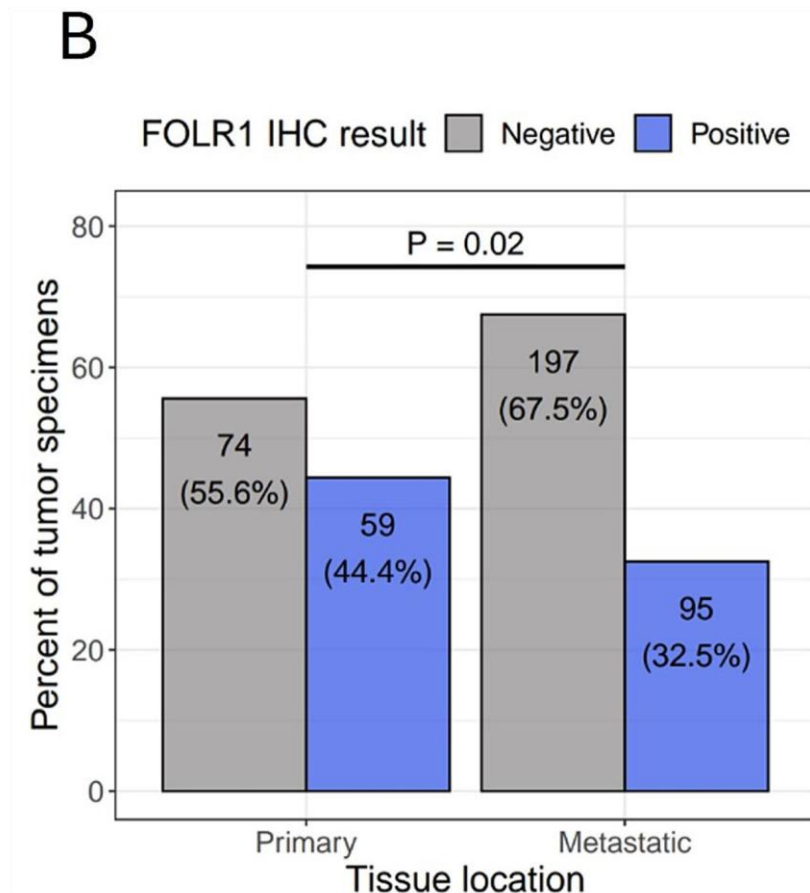
- Clinical trials enrolled patients whose tumors were tested from both archived and new biopsies

- Archival tumor samples vs. pre-treatment new biopsy → 71% concordance

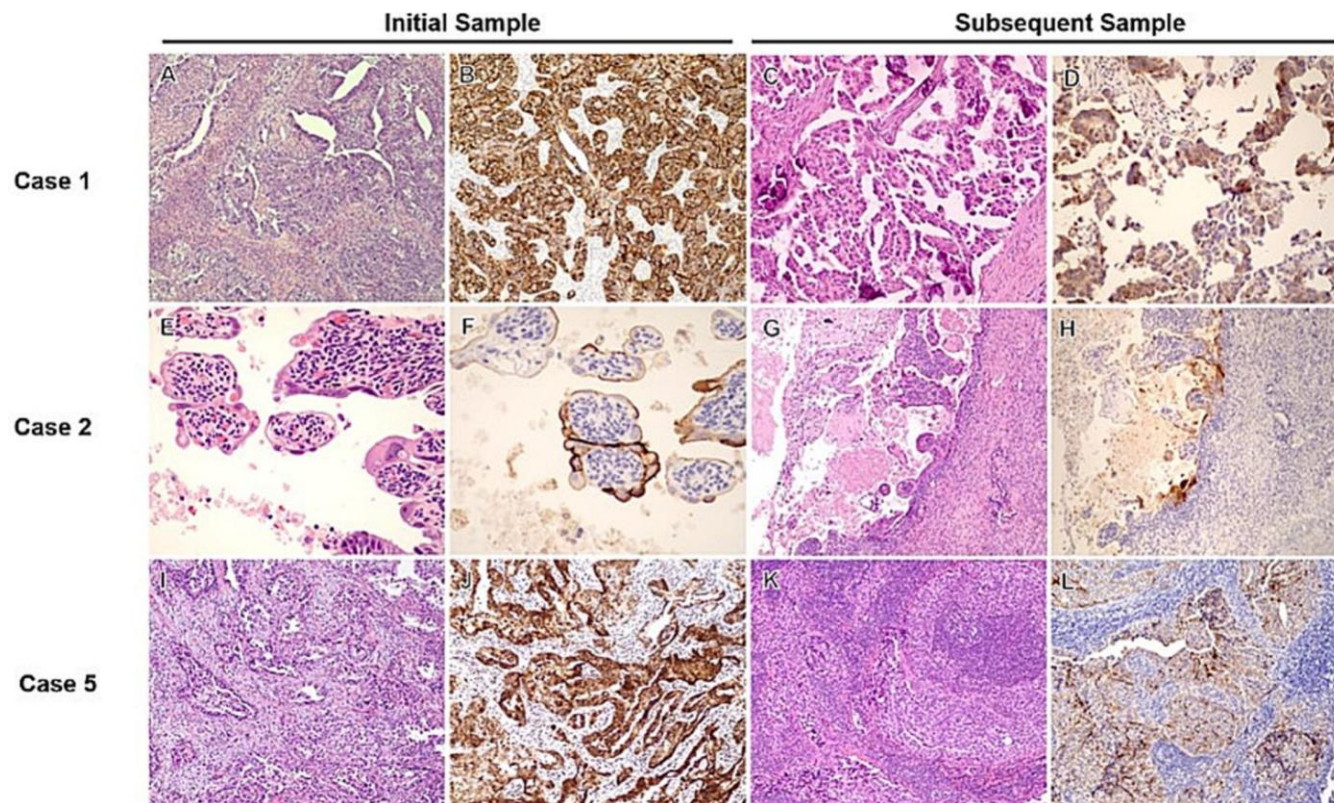


FRalfa Testing

■ WHERE / WHEN (i.e. timing / sample)

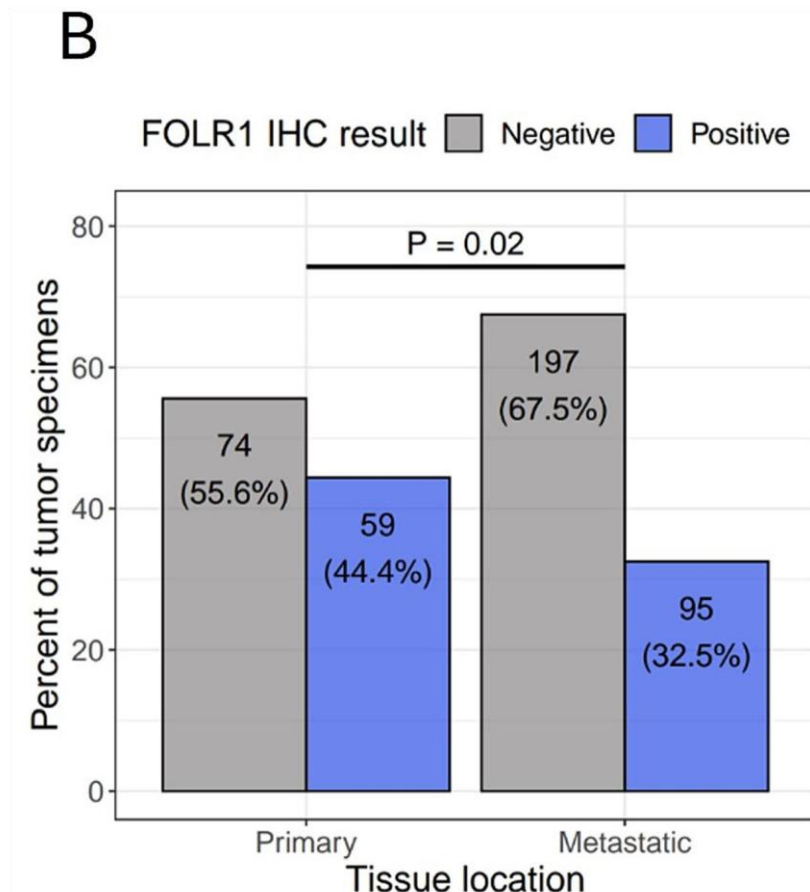


Primary sites include the ovary, fallopian tube, adnexa, or pelvic mass.

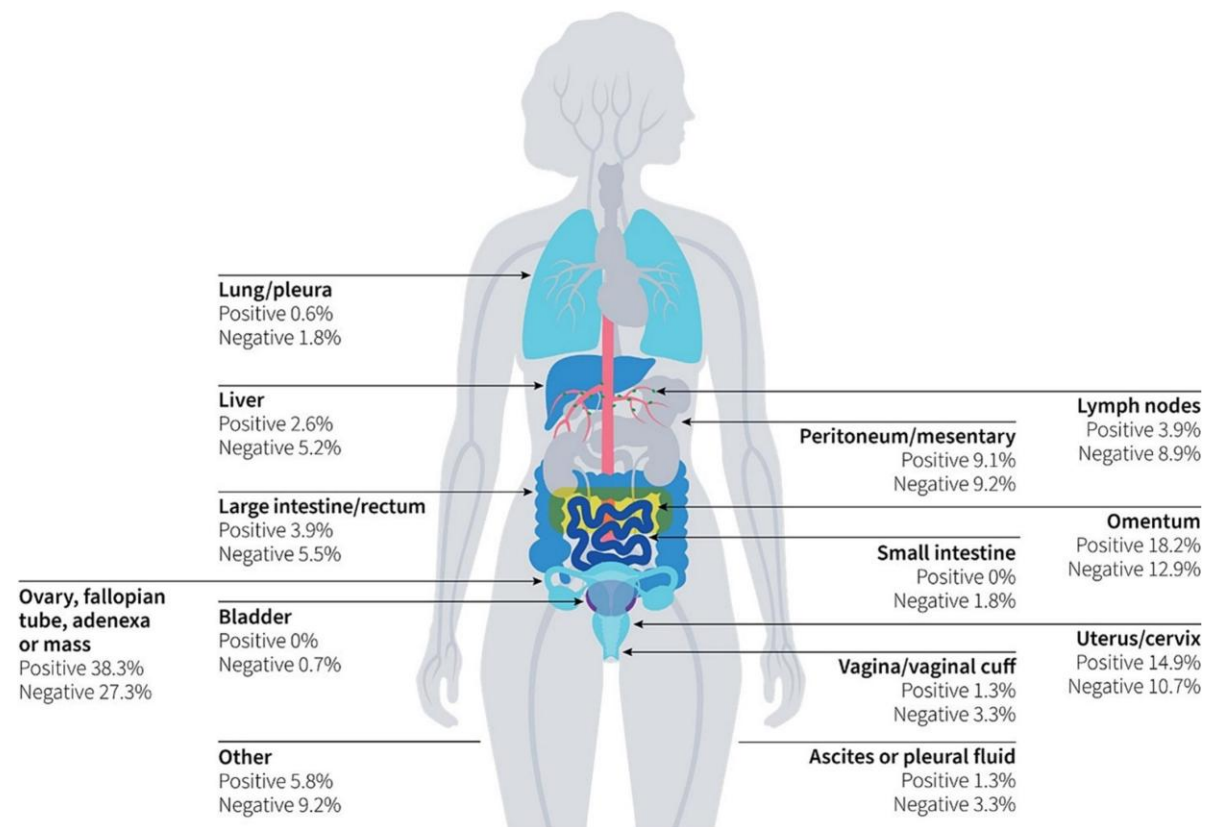


FRalfa Testing

WHERE / WHEN (i.e. timing / sample)



Primary sites include the ovary, fallopian tube, adenexa, or pelvic mass.



Folate Receptor Alpha (FR α , FOLR1) Expression and Persistence in Ovarian Cancer in Clinical Trial Samples and Real-World Patient Cohorts

Elizabeth M. Swisher¹, Qu Zhang², Emilee Gagliardi², Manal Mehibel², David Masica², Sribalaji Lakshmikanthan², Emily Deutschman², Peter Ansell², and Robert L. Coleman²

¹University of Washington, Seattle, WA, USA; ²AbbVie Inc, North Chicago, IL, USA; ³Texas Oncology, The Woodlands, TX, USA

OBJECTIVE

To investigate real-world and clinical FR α expression prevalence, consistency over time, concordance with mRNA expression, and prognostic value in patients with ovarian cancer

CONCLUSIONS

In one of the largest known real-world datasets (N=1337) of patients with ovarian cancer, 32.8% of tumor samples were FR α -high ($\geq 75\%$ of viable tumor cells with $\geq 2+$ membrane staining), including in those with and without *BRCA* mutations, consistent with rates seen in MIRV clinical trials to date^{1,2}

FR α status was consistent in 78.5% of longitudinally collected paired-matched samples, demonstrating biological stability in the largest known dataset that was evaluated using the VENTANA FOLR1 CDx^a

In both real-world and clinical trial datasets, FR α protein and mRNA expression derived from the same tumor biopsy demonstrated high correlation; in the absence of MIRV, patients with high *FOLR1* expression had poor prognosis in the 1L setting in the VELIA trial

These data support that FR α protein expression using IHC is feasible, stable, and concordant with mRNA; tissue-derived FR α mRNA levels may be a negative prognostic factor in ovarian cancer, independent of MIRV treatment, and further studies are required to confirm this observation and evaluate the prognostic role of FR α protein expression

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To submit a medical question, please visit www.abbviedrugsinfo.com



AbbVie and the authors thank the participants, study sites, and investigators who participated in the VELIA clinical trial. AbbVie and the authors would also like to acknowledge the partnership with Caris Life Sciences for providing the data of paired-matched patient tumor samples tested at Caris Life Sciences, and Ming Pao, MGH, Ph.D., of Caris Life Sciences for planning the study and performing analyses on the dataset.

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Elizabeth M. Swisher received compensation from (DEAVA) Biosciences. Robert L. Coleman is employed by Varian Group and US Oncology, serves as a consultant to advisory board members or has received honoraria, travel, or research support from Varian Group, Covis Oncology, Genentech/Roche, AstraZeneca, Genmab, Immunogen, AbbVie, Merck, Novartis, GSK, Genzyme, Eisai, GSK Oncology, Karyopharm Therapeutics, Array BioPharma, Research To Practice, and SCOTIO. The authors have no relevant financial disclosures. The authors have no relevant financial disclosures. The authors have no relevant financial disclosures.

Presented at the American Society of Clinical Oncology (ASCO) Annual Meeting, May 30-June 3, 2025, Chicago, IL, USA [JCO 2025;43:5591]

INTRODUCTION

- The FR α -directed antibody-drug conjugate mirvetuximab soravtansine-gynx (MIRV) showed a survival benefit vs investigator's choice chemotherapy for FR α -high, platinum-resistant ovarian cancer in the MIRASOL trial³
- In MIRASOL, >90% of patients were enrolled using an archived, diagnostic sample, suggesting biologic stability of FR α
- Data showing tumor FR α stability and correlation with mRNA in the real-world setting are limited
- Understanding the dynamics of targetable FR α expression in the real-world setting is important to inform patient care and guide clinical trial development

METHODS

Data sources

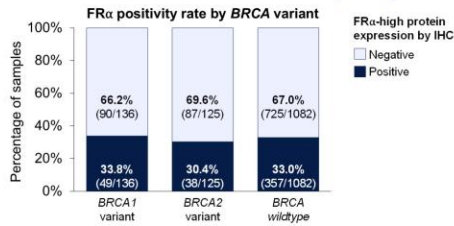
- VELIA (NCT02470585, GOG-3005) was a phase 3 trial of veliparib with first-line chemotherapy in high-grade serous ovarian cancer (N=1140)⁴
- Tumor samples from patients with ovarian cancer in the real-world setting were tested at Caris Life Sciences
- Cohort 1 (N=1337): ConcertAI RWD360®-Caris linked dataset was used to assess FR α prevalence and confirm IHC:mRNA concordance observed with VELIA trial samples
- Cohort 2 (N=233): Caris Life Sciences dataset used to assess biological stability

FR α expression

- FR α protein expression was retrospectively established by IHC using the VENTANA FOLR1 (FOLR1-2.1) RxDx Assay (FOLR1 CDx; Roche Diagnostics)^a
- FR α -high positivity was defined as $\geq 75\%$ of viable tumor cells with $\geq 2+$ membrane staining (used for MIRV treatment eligibility with approved FOLR1 CDx)^{3,5}
- FOLR1* RNA expression from tumor samples was measured using whole transcriptome RNAseq
- Paired-matched tissue samples collected >3 months apart from real-world patients with ovarian cancer were used to examine FR α biological stability
- IHC and mRNA concordance was determined using receiver operating curve (ROC) analysis

RESULTS

FR α Prevalence Is Similar Regardless of *BRCA* Mutation Status in Real-World Patient Samples (N=1337)



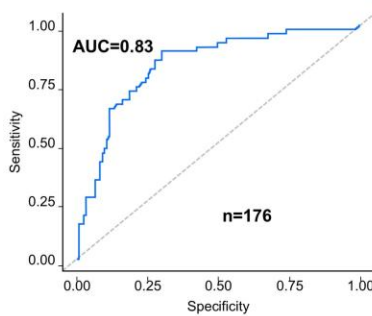
- 32.8% (439/1337) of real-world samples from the ConcertAI RWD360®-Caris linked dataset were FR α -high by IHC, which was consistent with that observed in patients in MIRASOL (31.9% [737/2307])¹
- BRCA1* and *BRCA2* variants were present in 10.2% (136/1337) and 9.3% (125/1337), respectively, consistent with rates observed in ovarian cancers⁶

FR α Status Is Consistent Over Time in Real-World Samples From MIRV-Naïve Patients (N=233)

Tissue Sample 1			
	Positive	Negative	Total
Tissue Sample 2			
Positive	39 (16.7%)	29 (12.4%)	68
Negative	21 (9.0%)	144 (61.8%)	165
Total	60	173	233

- FR α status was consistent in 78.5% (183/233) of longitudinal, paired-matched tissue samples from MIRV-naïve patients (Cohort 2, N=233)
- 21.5% (50/233) of samples showed discordant FR α status, with 35.0% (21/60) shifting to negative and 16.8% (29/173) shifting to positive in the second sample
- Paired-matched tissue samples were collected at a median interval of 10.0 mo (range, 3.0-144.4)

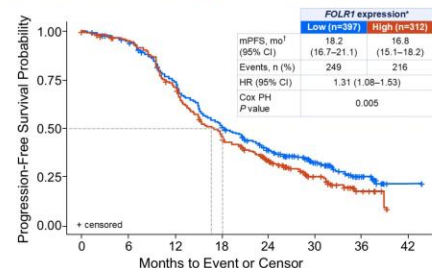
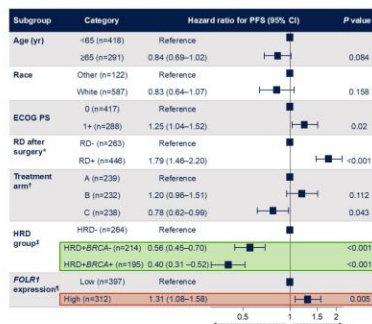
FR α mRNA and Protein Expression Are Concordant in Tumor Tissue-Derived HGSOC Samples From the VELIA Trial (n=176)



Specificity	Sensitivity	Accuracy (95% CI)	Kappa (P value)
69.9%	88.7%	75.6% (68.5%, 81.7%)	0.50 (<0.001)
Observed Prevalence	Predicted Prevalence	F1	auROC (95% CI)
30.1%	47.7%	0.69	83.1% (76.4%, 89.7%)

- Concordance of FR α tissue mRNA expression and IHC was confirmed in tumor samples from the ConcertAI RWD360®-Caris linked dataset (n=1228); auROC was 87.6% (95% CI 85.7%-89.4%) using a cutoff maximizing Youden's Index
- mRNA can be an exploratory tool to evaluate FR α protein biology

High *FOLR1* mRNA Is a Negative Prognostic Indicator for Progression-Free Survival in 1L Maintenance Therapy in VELIA (n=709)



- HRD and *BRCA* were positive prognostic indicators
- High *FOLR1* was a negative prognostic indicator for PFS in the multivariable analysis, consistent with previous reports⁷

^aFOLR1 expression (high and low) was defined using the cutoff identified in the ROC analysis.
^bIn treated patients across the trial cohorts who had FR α expression and PFS data available.

REFERENCES: 1. Moore KN, et al. Supplementary appendix. *N Engl J Med*. 2023;389(23):2162-2174. 2. Matulonis UA, et al. *J Clin Oncol*. 2023;41(13):2436-2445. 3. Moore KN, et al. *N Engl J Med*. 2023;389(23):2162-2174. 4. Coleman RL, et al. *N Engl J Med*. 2019;381(25):2403-2415. 5. Ventana FOLR1 (FOLR1-2.1) RxDx Assay. Package insert. VENTANA Medical Systems Inc.; 2022. 6. Alsop K, et al. *J Clin Oncol*. 2021;39(21):2654-2663. 7. Kulbe H, et al. *J Clin Oncol*. 2020;38(suppl 15):6078.

FRalfa Testing

■ HOW

• FDA

The trial enrolled patients whose tumors were positive for FR α expression as determined by the VENTANA FOLR1 (FOLR1-2.1) RxDx Assay”

• EMA

Eligible patients should have **FR α tumour status defined as >75% viable tumour cells demonstrating moderate (2+) and/or strong (3+) membrane staining by immunohistochemistry (IHC)**, assessed by a CE-marked in vitro diagnostic (IVD) with the corresponding intended purpose. If a CE-marked IVD is not available, an alternative validated test should be used.



November 14, 2022

Ventana Medical Systems, Inc.
Justyna Gozdz, Ph.D.
Manager, Companion Diagnostics Regulatory Affairs
1910 E. Innovation Park Drive
Tucson, AZ 85755

Re: P220006
Trade/Device Name: VENTANA FOLR1 (FOLR-2.1) RxDx Assay
Product Code: QUL
Filed: April 25, 2022
Amended: June 29, 2022; September 8, 2022; September 20, 2022; September 26, 2022

Dear Dr. Justyna Gozdz:

The Center for Devices and Radiological Health (CDRH) of the Food and Drug Administration (FDA) has completed its review of your premarket approval application (PMA) for the VENTANA FOLR1 (FOLR-2.1) RxDx Assay. The device indication is as follows:

VENTANA FOLR1 (FOLR1-2.1) RxDx Assay is a qualitative immunohistochemical assay using mouse monoclonal anti-FOLR1, clone FOLR1-2.1, intended for use in the assessment of folate receptor alpha (FOLR1) protein in formalin-fixed, paraffin-embedded epithelial ovarian, fallopian tube or primary peritoneal cancer tissue specimens by light microscopy. This assay is for use with OptiView DAB IHC Detection Kit for staining on a BenchMark ULTRA instrument. FOLR1 expression clinical cut-off is $\geq 75\%$ viable tumor cells (TC) with membrane staining at moderate and/or strong intensity levels. This assay is indicated as an aid in identifying patients with epithelial ovarian, fallopian tube, or primary peritoneal cancer who may be eligible for treatment with ELAHERE (mirvetuximab soravtansine). Test results of the VENTANA FOLR1 (FOLR1-2.1) RxDx Assay should be interpreted by a qualified pathologist in conjunction with histological examination, relevant clinical information, and proper controls. This product is intended for in vitro diagnostic (IVD) use.

We are pleased to inform you that the PMA is approved. You may begin commercial distribution of the device in accordance with the conditions of approval described below. Although this letter refers to your product as a device, please be aware that some approved products may instead be combination products. The Premarket Approval Database located at <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfPMA/pma.cfm> identifies combination product submissions.

The sale and distribution of this device are restricted to prescription use in accordance with 21 CFR 801.109 and under section 515(d)(1)(B)(ii) of the Federal Food, Drug, and Cosmetic Act (the act). FDA has determined that these restrictions on sale and distribution are necessary to provide reasonable assurance of

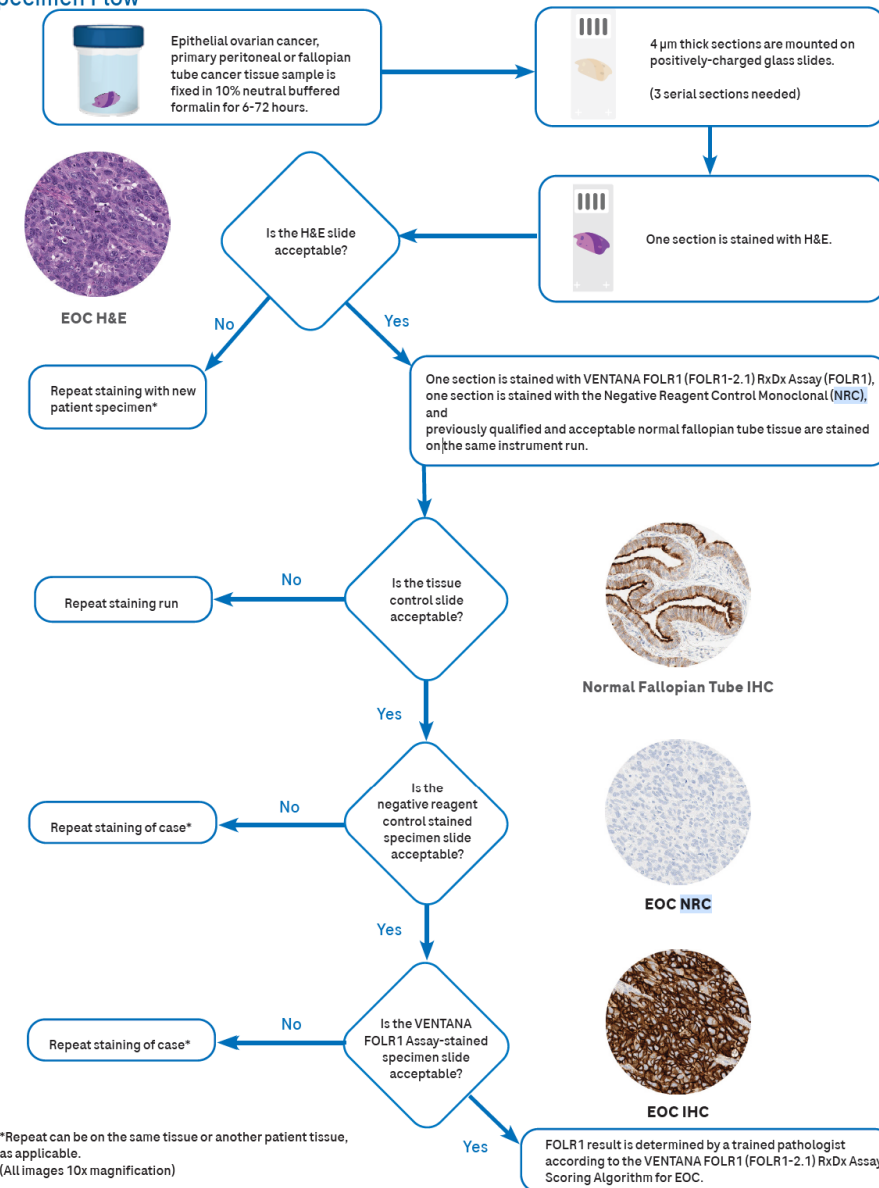
U.S. Food & Drug Administration
10903 New Hampshire Avenue
Silver Spring, MD 20993
www.fda.gov

FRalfa Testing

■ HOW

Clinical Interpretation	Staining Criteria / Characteristics
Positive for FOLR1*	≥ 75% of viable tumor cells with moderate (2+) and/or strong (3+) membrane staining
Negative for FOLR1*	< 75% of viable tumor cells with moderate (2+) and/or strong (3+) membrane staining
Not Evaluable	Artifacts making interpretation not possible

Specimen Flow



FRalfa Testing

■ HOW

EVENTO ECM BLENDED

Approccio pratico alla valutazione dei biomarcatori:
strategie avanzate per il carcinoma ovarico

FASE I

FSC - Roma, Policlinico Universitario
Agostino Gemelli - **24 febbraio 2025**

FASE II

Esercitazione individuale

FASE III

Fad Sincrona **3 marzo 2025**

EVENTO ECM FAD SINCRONA IN 2 PUNTATE

Approccio pratico alla valutazione dei biomarcatori:
strategie avanzate per il carcinoma ovarico

PRIMA EDIZIONE

PRIMA PUNTATA:

7 maggio 2025

PERIODO ESERCITAZIONE

6 ORE TOTALI

SECONDA PUNTATA:

28 maggio 2025

Regime: Interno
Codice contatto: _____

Pervenuta al servizio il XX/XX/XXXX
Eseguito il: XX/XX/XXXX
Esame associato a:

MATERIALE IN ESAME:
BIOPSIA PERITONEO nodulo parete sigma

UNITÀ DI CURA RICHIEDENTE: _____ **MEDICO RICHIEDENTE:** _____

Esame richiesto e Valutazione adeguatezza del campione
Determinazione immunoistochimica dello stato del recettore FOLR1
[XX FOLR1 RxDx Assay (anticorpo FOLR1-2.1 su piattaforma xx)]

Adeguatezza tessuto tubarico di controllo: sì
Adeguatezza del numero di cellule neoplastiche vitali presenti (>100 cellule): sì
Valutazione immunoistochimica: positività di membrana (score 2+/3+) nel 75% delle cellule neoplastiche
Scoring condiviso: sì

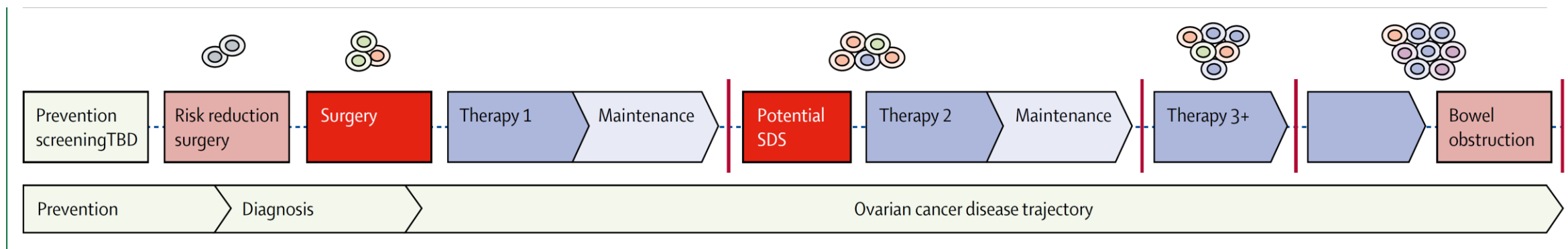
DIAGNOSI
POSITIVO per l'espressione di FOLR1

NOTE:
Interpretazione del test:
Una neoplasia epiteliale di ovaio/salpinge/peritoneo è considerata positiva se almeno il 75% delle cellule neoplastiche mostra una colorazione di membrana (apicale o circonferenziale; con o senza colorazione endoluminale "dot-like", di moderata (2+) o forte (3+) intensità (Matulonis UA, et al. 2023).
Casi "borderline" (65-85% di cellule con positività score 2+ o 3+) necessitano di rivalutazione da parte di un secondo Patologo e, se possibile, di rideterminazione su una differente inclusione in paraffina.

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da XX in data XX/XX/XXXX

IT-ELAH-250077

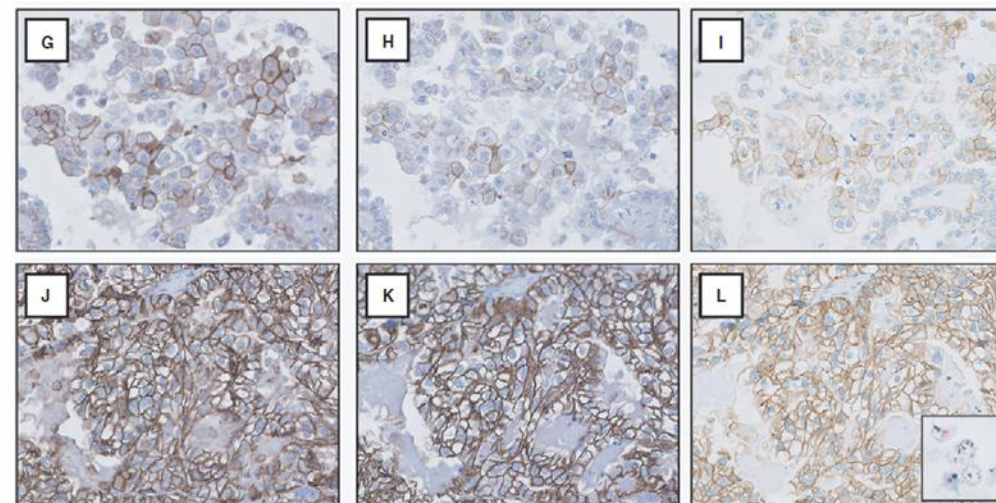
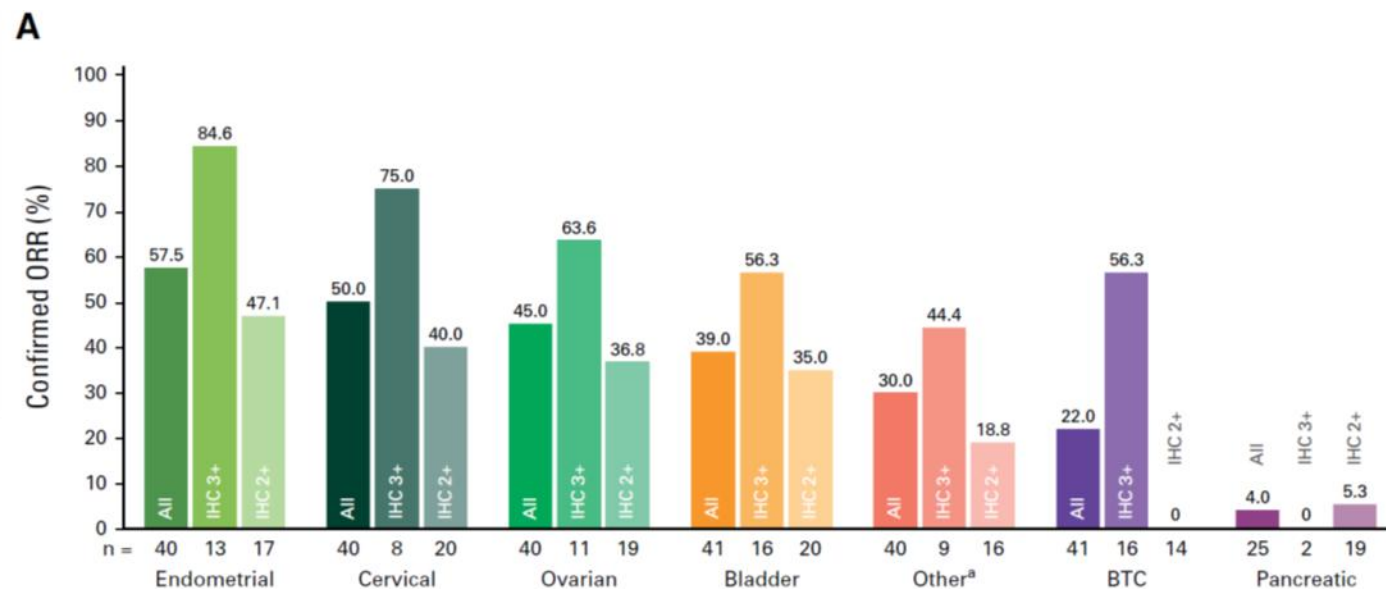
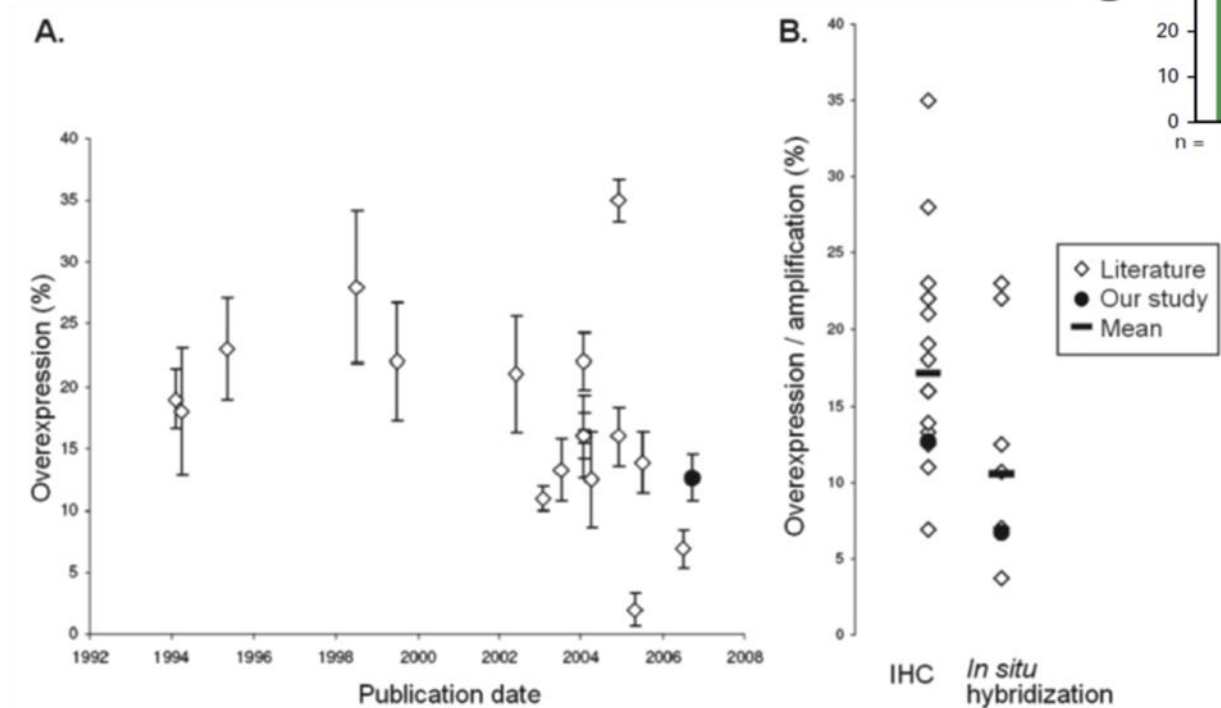
Biomarker testing in advanced OC



- What (if) else?

Biomarker testing in advanced OC

➤ HER2



Biomarker testing in advanced OC

MINISTERO DELLA SALUTE

DECRETO 30 maggio 2023.

Istituzione dei *Molecular tumor board* e individuazione dei centri specialistici per l'esecuzione dei test per la profilazione genomica estesa *Next generation sequencing* (NGS).



1) *Caratteristiche del paziente con malattia oncologica in fase avanzata:*

- ✓ assenza di valide alternative terapeutiche autorizzate ed erogate dal SSN;
- ✓ aspettativa di vita non inferiore a 3 mesi;
- ✓ PS 0-2 che renda il paziente candidabile ad un trattamento;
- ✓ volontà del paziente.

2) *Disponibilità dei farmaci:*

- ✓ farmaci oggetto di sperimentazione clinica per il quale il paziente potrebbe essere potenzialmente eleggibile (in questo caso l'Articolazione del MTB-R propone uno o più protocolli di ricerca attivi a cui il paziente può essere eleggibile);
- ✓ farmaci disponibili attraverso il "c.d. uso compassionevole" ai sensi del DM Salute del 07/09/2017;
- ✓ farmaci per i quali siano disponibili evidenze cliniche che un trattamento mirato abbia efficacia terapeutica e che sono quelle previste per lo specifico tumore dai livelli I e II secondo ESCAT-ESMO.

THANKS

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