

4^a Jornada de Actualización en Cáncer Ginecológico

Bilbao · 20 – 21 de mayo 2026

Organizado por
ASONMEC

Mantenimiento con iPARP: ¿Cuándo y cuál?

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Dr. Joan Manel Mañé

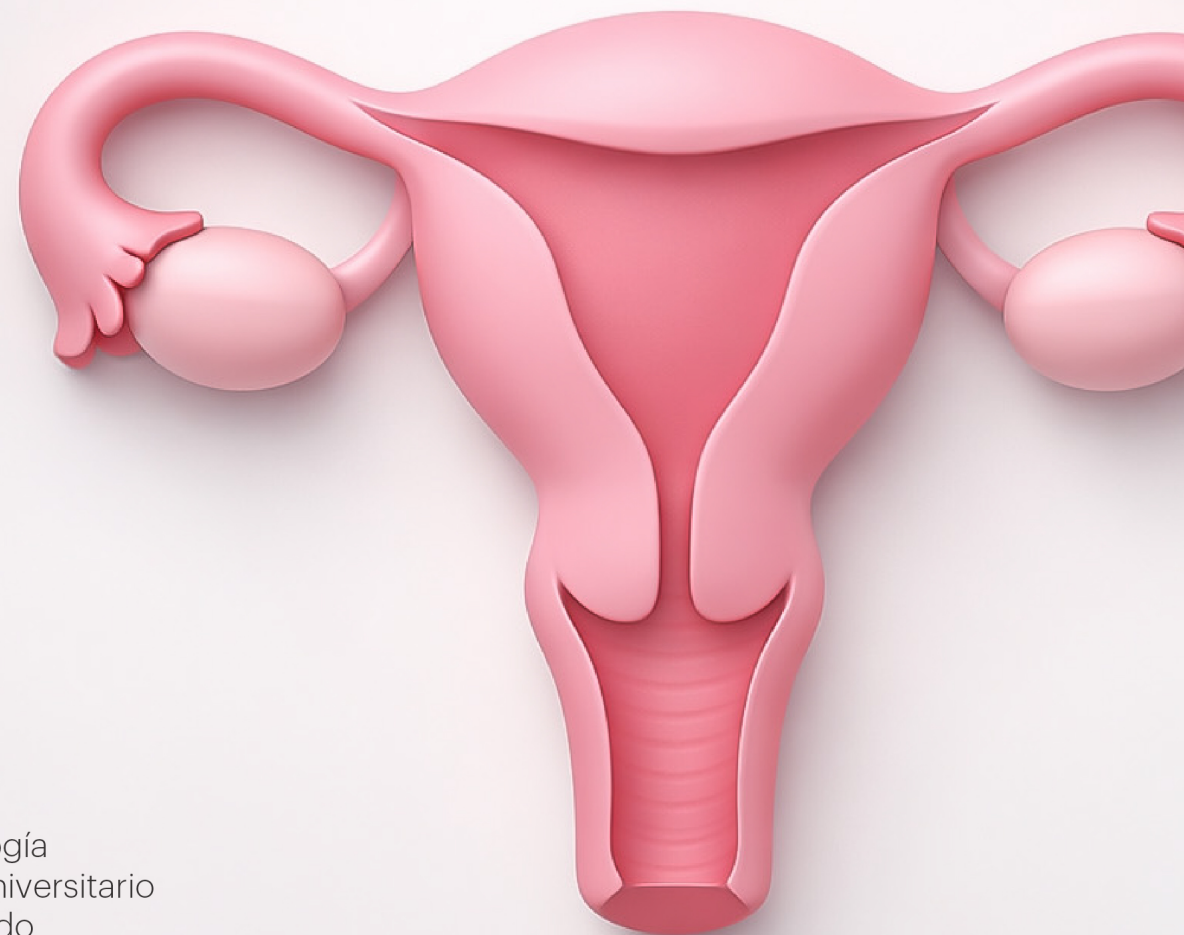
Servicio de Oncología
Médica Hospital Universitario
de Cruces, Barakaldo

Dra. Eluska Iruarrizaga

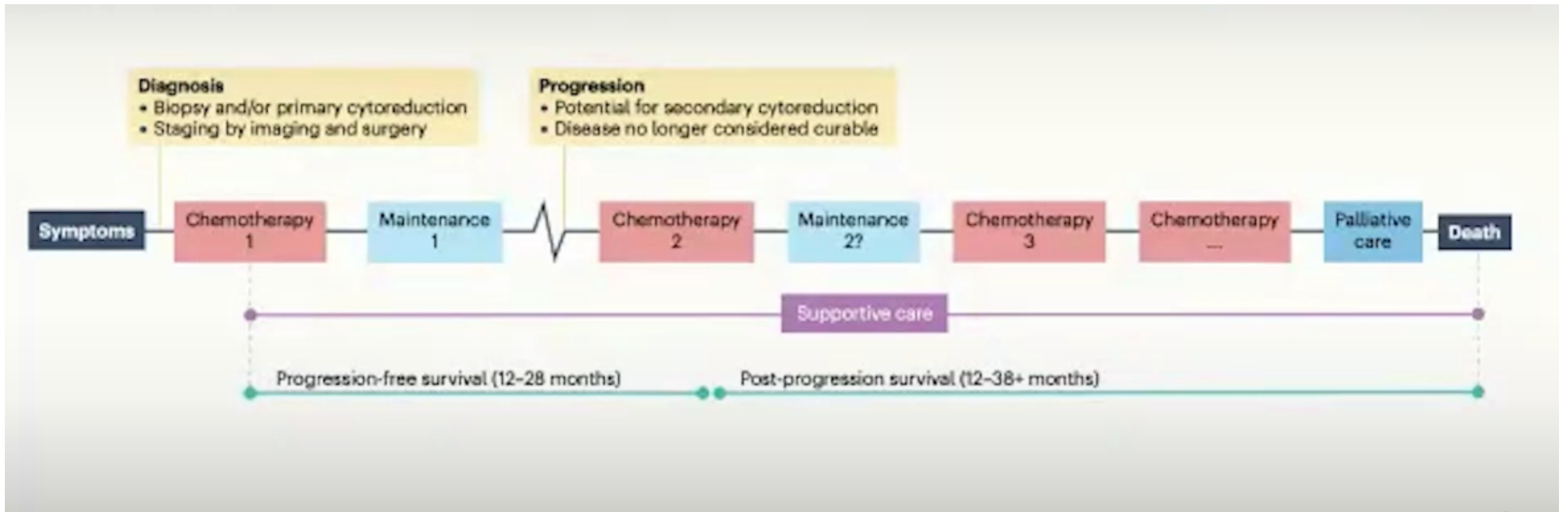
Servicio de Oncología
Médica Hospital Universitario
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Dra. Estibaliz Iza

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Médica Hospital Universitario
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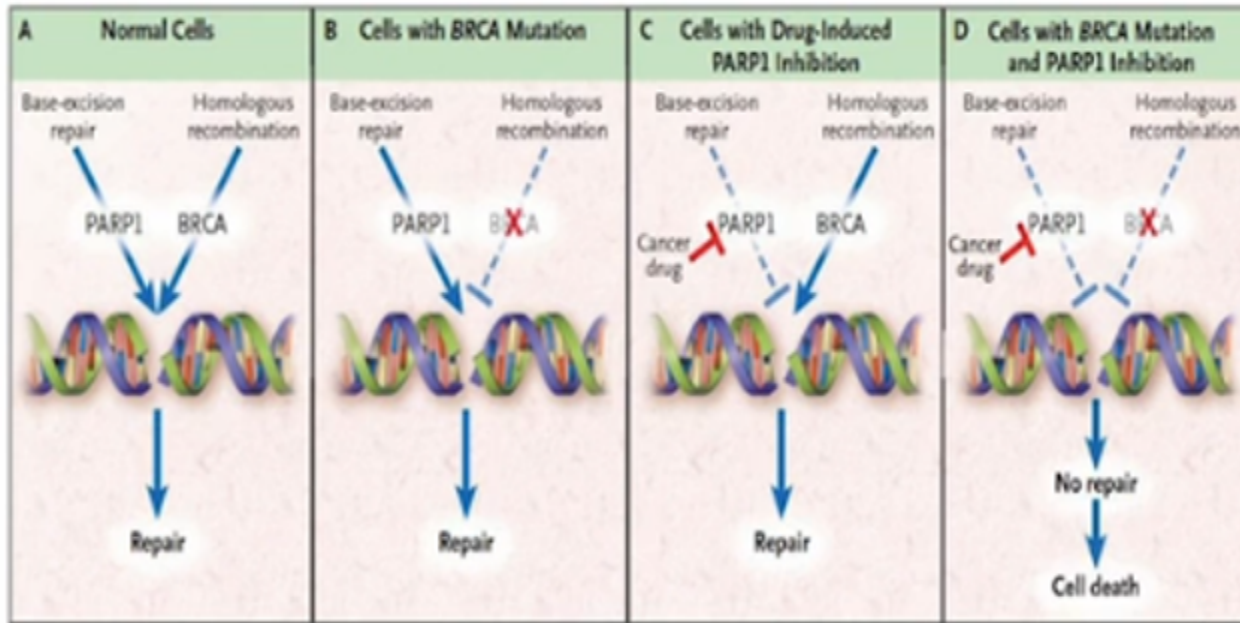


HISTORIA NATURAL DEL CÁNCER DE OVARIO



¿QUÉ SON LOS iPARP?

Letalidad sintética



	Catalytic inhibition (IC50 nM)	Cytotoxicity (IC90 µM)	PARP-trapping potency (relative to olaparib set as 1)	Class
Veliparib	30	>50	<0.2	Class 1
Olaparib	6	4.5	1	Class 2
Rucaparib	21	3	1	Class 2
Niraparib	60	2.3	~2	Class 2
Talazoparib	4	0.04	~100	Class 2

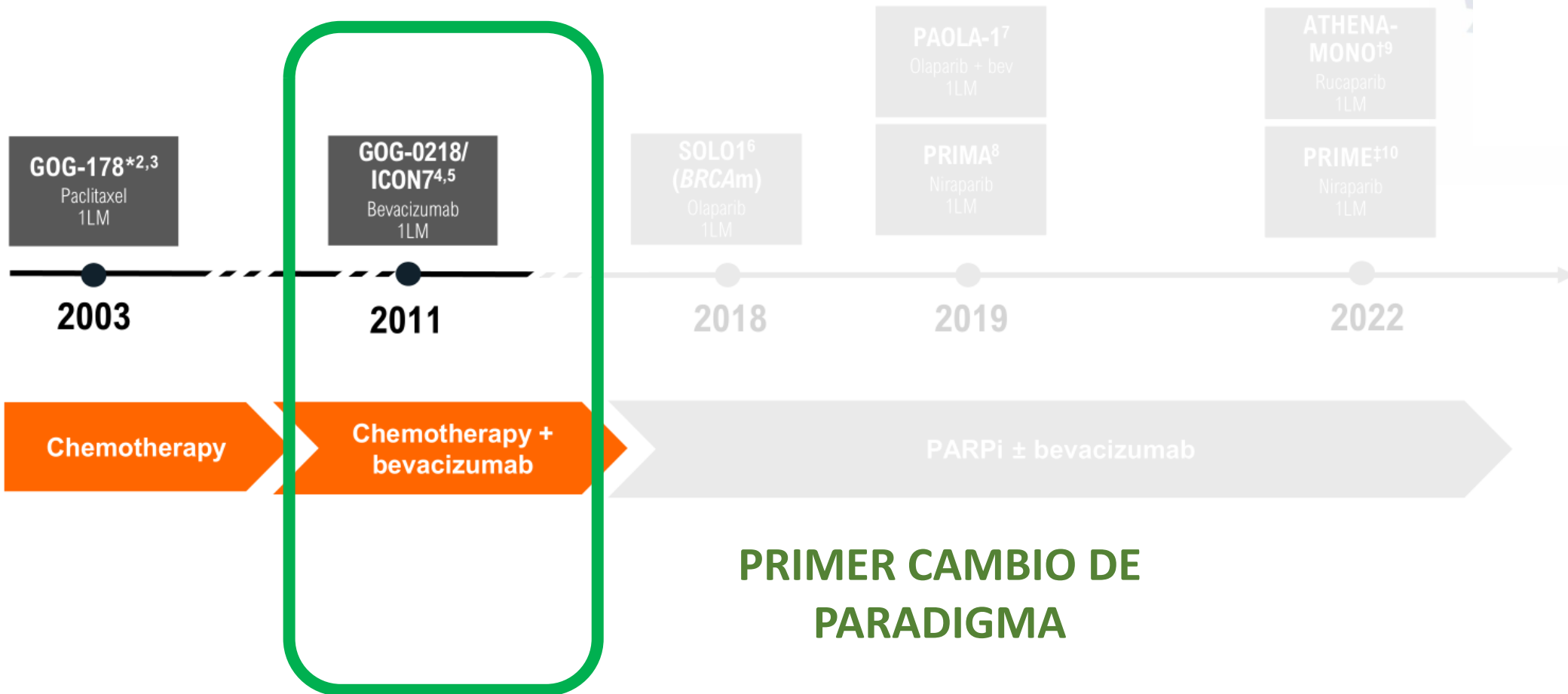
Class 1: catalytic inhibition >> PARP trapping
Class 2: PARP trapping + catalytic inhibition:
Talazoparib >> Niraparib, Olaparib >> Veliparib

1. Las células tumorales presentan mutaciones en ADN
2. PARP es un complejo familiar enzimático que interviene en mecanismos reparadores de ADN
3. Las proteínas BRCA tienen papel fundamental en RH, reparando daños en el ADN
4. Los iPARP inhiben la actividad catalítica de PARP y "atrapan" a PARP
5. En las células con mutación BRCA, si inhibimos PARP, se crea efecto de letalidad sintética->muerte celular

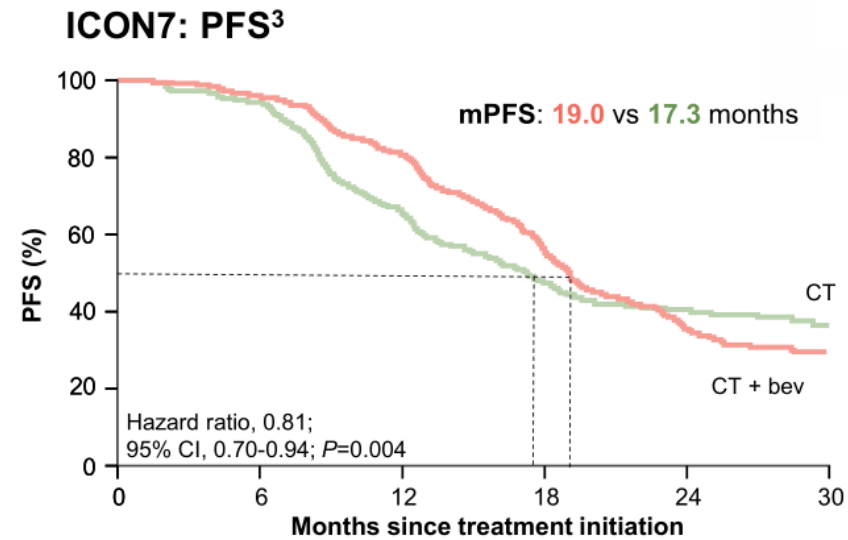
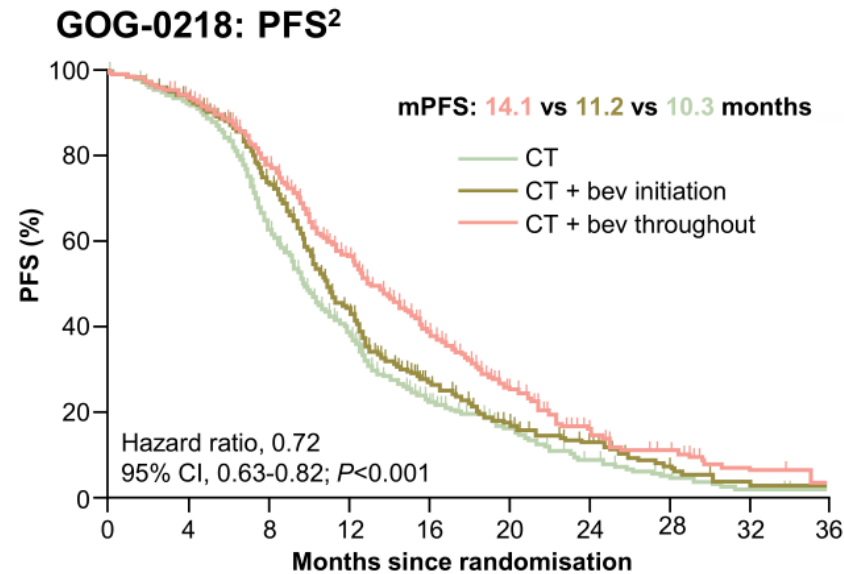
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ERA PRE-iPARP



Bevacizumab mantenimiento 1L: GOG 218/ICON7

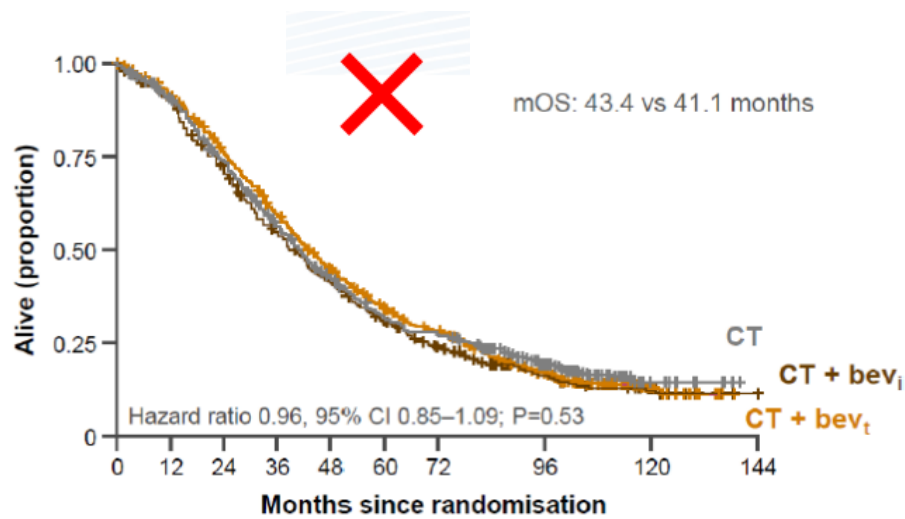


Tiempo medio (meses) de PFS con QT+Bv: 19 (ICON7)/14.1 (GOG 218)

Bevacizumab mantenimiento 1L: GOG 218/ICON7

GOG-0218: OS¹

Overall survival – ITT population

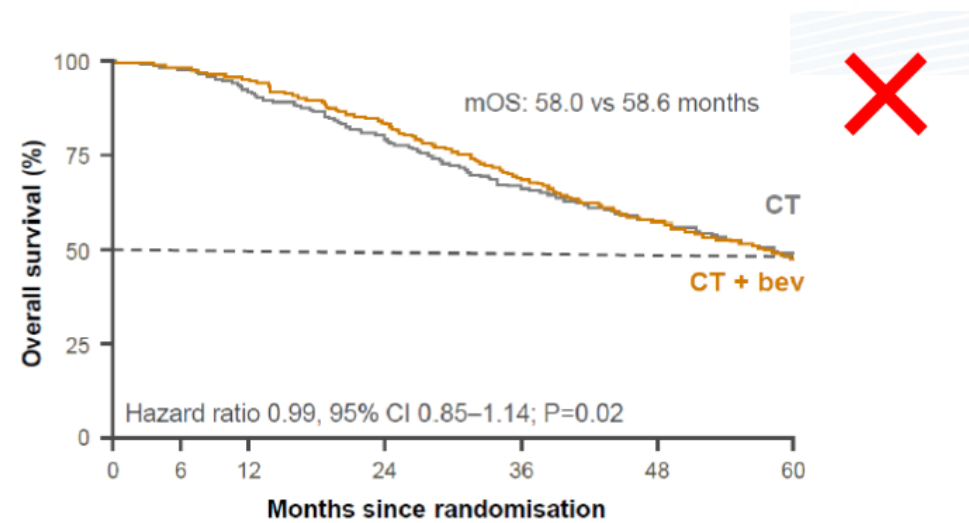


623	561	464	358	267	201	161	85	11	0
625	558	443	334	252	185	136	74	11	1
625	558	448	340	252	183	158	90	9	0

Adaptado de Tewari KS, et al. *J Clin Oncol* 2019

ICON-7: OS²

Overall survival – ITT population



764	738	707	618	502	401	124
764	725	676	578	476	397	117

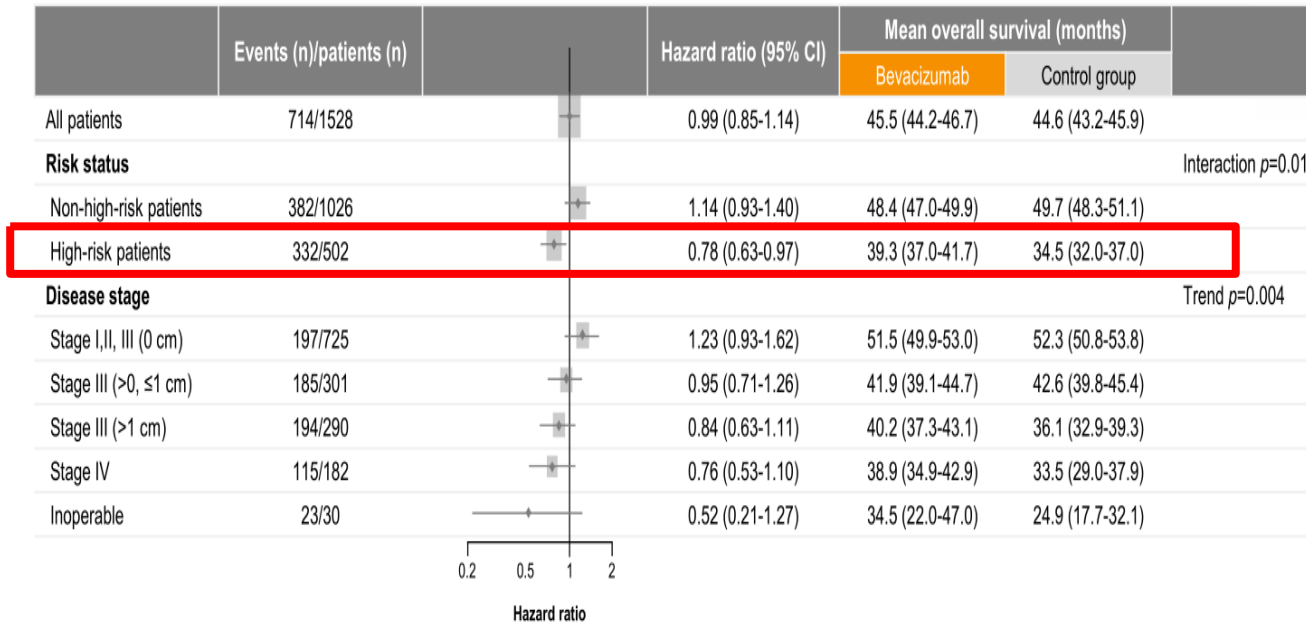
Adaptado de Oza AM, et al. *Lancet Oncol* 2015

Activar Windows

Mantenimiento Bevacizumab: GOG 218/ICON7

30% pacientes alto riesgo

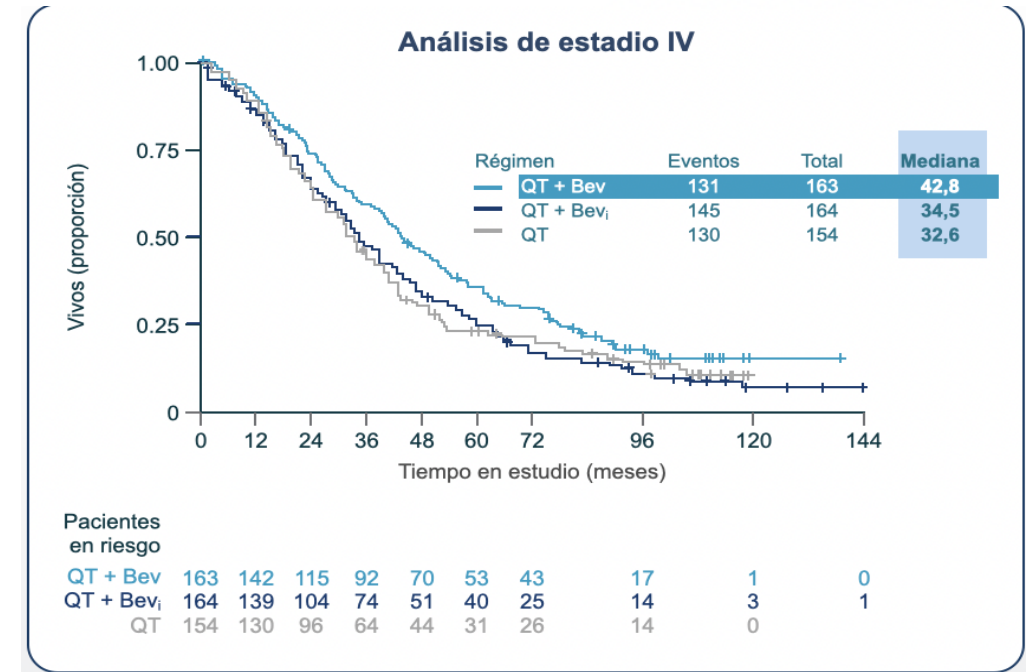
ICON-7 Overall survival



Estratificadas por estadio /enf residual
No por status BRCA/HRD

GOG 218: Overall survival

73,5% fueron estadio III
26,5% fueron estadio IV



Alto riesgo: estadio IV o estadios III con enfermedad residual > 1cm

Tiempo medio de OS (meses) en alto riesgo con QT+Beva: **39.3 (ICON7)/ 42.8 (GOG 218)**

ERA POST-iPARP

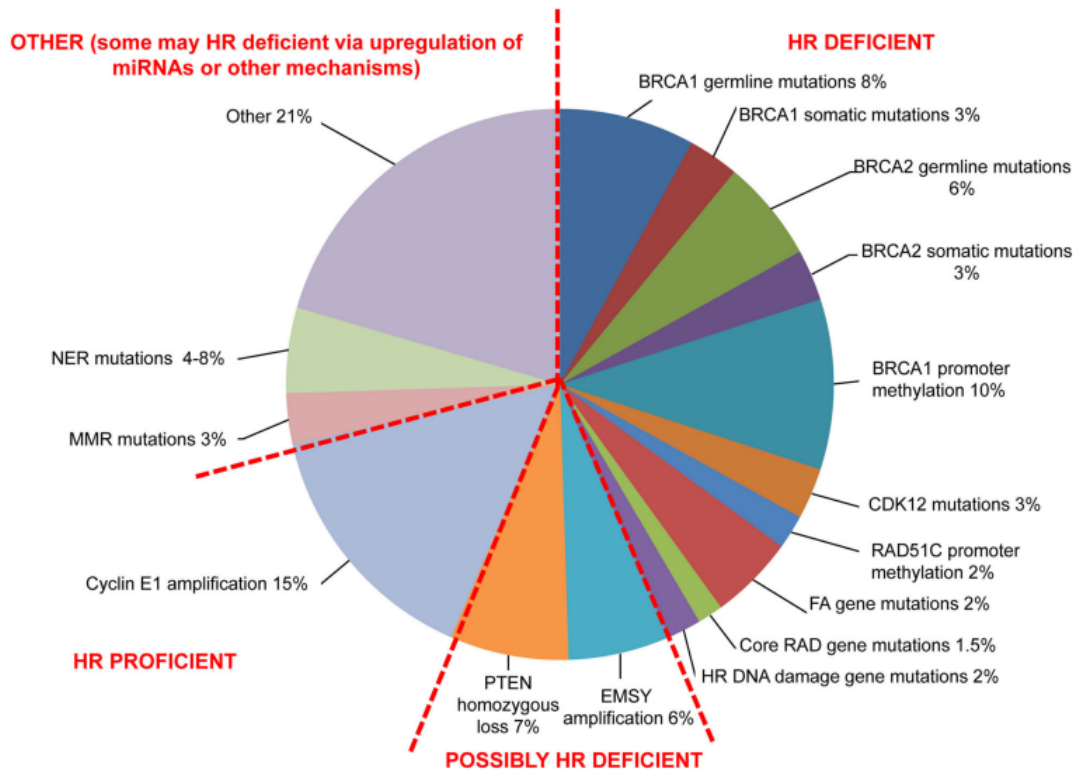


Figure 2. Approximately 50% of high grade serous EOC have alterations in HR repair genes



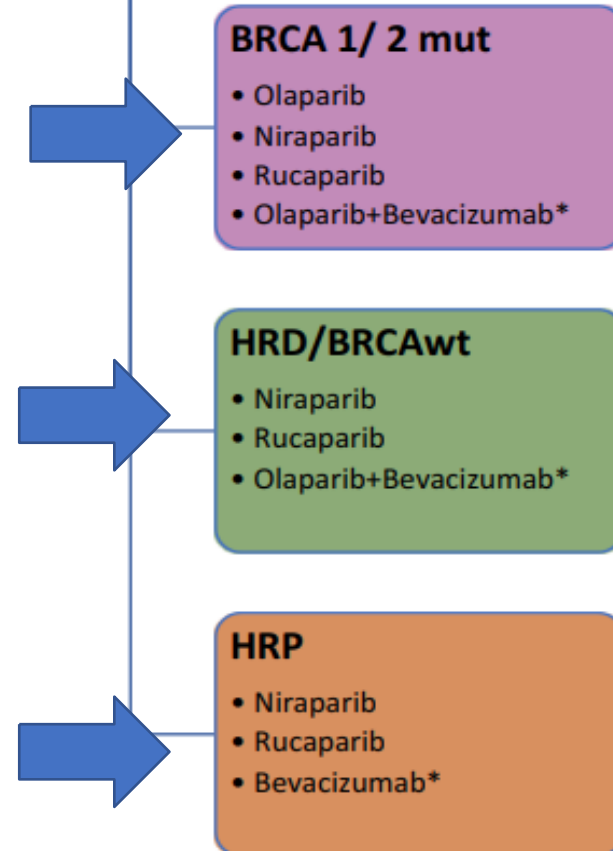
SEGUNDO CAMBIO DE PARADIGMA

SEOM–GEICO clinical guideline on epithelial ovarian cancer (2023)

Jose Alejandro Perez-Fidalgo¹ · Fernando Gálvez-Montosa² · Eva María Guerra³ · Ainhoa Madariaga⁴ · Aranzazu Manzano⁵ · Cristina Martín-Lorente⁶ · María Jesús Rubio-Pérez⁷ · Jesus Alarcón⁸ · María Pilar Barretina-Ginesta⁹ · Lydia Gaba¹⁰

MANAGEMENT OF ADVANCED STAGE OVARIAN CANCER (STAGE III OR IV)			
Biopsy or laparoscopy (preferred) for histology and BRCA/HRD testing			
Multidisciplinary committee: High probability to achieve complete cytoreduction		Multidisciplinary committee: Low probability to achieve complete cytoreduction	
High grade	Low grade Low chemosensible histology	High grade	
PRIMARY DEBULKING SURGERY AND STAGING Bilateral salpingo-oophorectomy Hysterectomy Omentectomy Abdominal cavity exploration Random biopsies of peritoneal surfaces Cytology peritoneal lavage Appendectomy if mucinous tumor		Carboplatin + Paclitaxel every 3 weeks for 3-4 cycles	
		INTERVAL DEBULKING SURGERY Bilateral salpingo-oophorectomy Hysterectomy Omentectomy Abdominal cavity exploration Random biopsies of peritoneal surfaces Cytology peritoneal lavage Appendectomy if mucinous tumor	
Carboplatin + Paclitaxel +/-bevacizumab every 3 week for 6 cycles	Carboplatin + Paclitaxel +/-bevacizumab every 3 week for 6 cycles	Carboplatin + Paclitaxel +/-bevacizumab every 3 week for 3 cycles	
Maintenance treatment: see options	Consider endocrine therapy (letrozole) for low grade serous	Carboplatin + Paclitaxel +/-bevacizumab every 3 week for 3 cycles	
		Maintenance treatment: see options	

Maintenance options for high grade serous or endometrioid AOC responding to platinum



Guías ESMO 2026

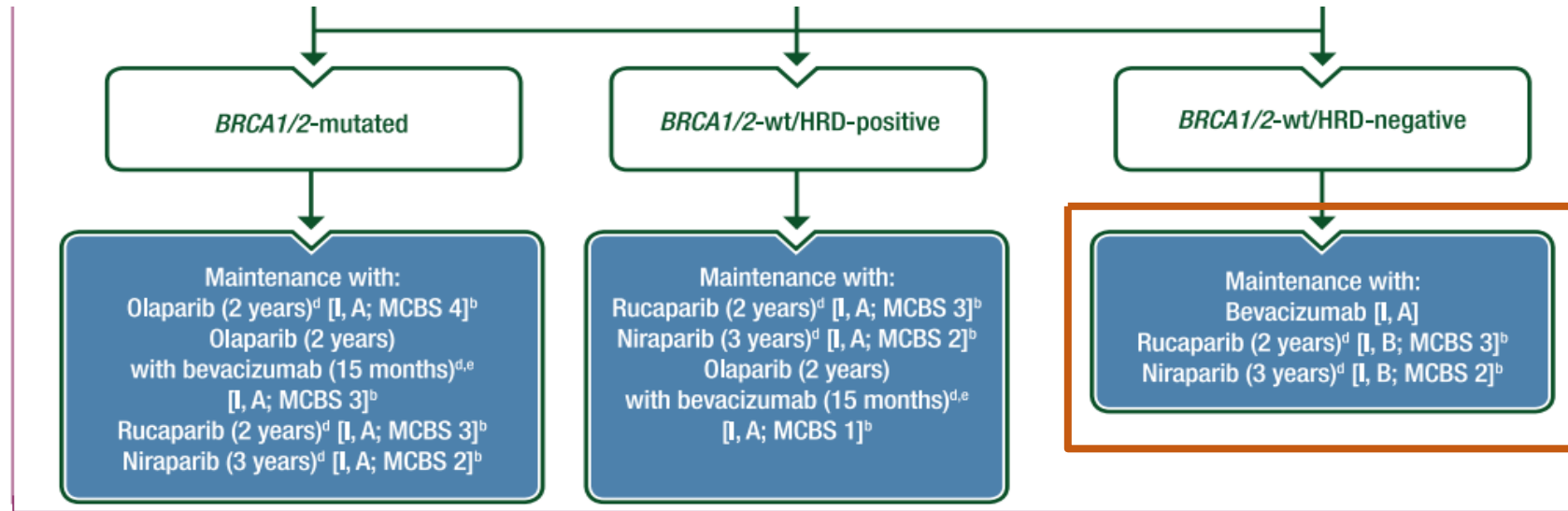


Figure 1. Management of advanced EOC (FIGO stage III-IV).

Purple: algorithm title; orange: surgery; blue: systemic anticancer therapy or their combination; turquoise: nonsystemic anticancer therapies or combination of treatment modalities; white: other aspects of management and non-treatment aspects.

AUC, area under the curve; ChT, chemotherapy; EMA, European Medicines Agency; EOC, epithelial ovarian cancer; ESCAT, ESMO Scale for Clinical Actionability of molecular Targets; FDA, Food and Drug Administration; FIGO, International Federation of Gynecology and Obstetrics; HRD, homologous recombination deficiency; MCBS, ESMO-Magnitude of Clinical Benefit Scale; PARPi, poly (ADP-ribose) polymerase inhibitor; wt, wild type.

^aESCAT scores apply to alterations from genomic-driven analyses only. These scores have been defined by the guideline authors, assisted if needed by the ESMO Precision Medicine Working Group.⁷

^bESMO-MCBS v2.0³ was used to calculate scores for new therapies/indications approved by the EMA or FDA. The scores have been calculated by the ESMO-MCBS Working Group and validated by the ESMO Guidelines Committee (<https://www.esmo.org/guidelines/esmo-mcbs/esmo-mcbs-evaluation-forms>).

^dOnly when patients have complete or partial response to platinum or no evidence of disease. For patients without response to platinum, a PARPi is not indicated; these patients can be managed with bevacizumab maintenance if appropriate (mainly stable disease), or with second-line therapy if they have progressive disease (see Figure 3 in the original Clinical Practice Guideline¹).

^eOption for patients for whom bevacizumab was added to paclitaxel–carboplatin.

PREMISA 1

Todas las pacientes con COA (III/IV) recibirán tratamiento mantenimiento

PREMISA 2

HRD+: Biomarcador predictivo de respuesta al platino/iPARP

PREMISA 3

Todas las pacientes HRD+/BRCAm (a priori) recibirán tratamiento con iPARP

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SOLO1

PAOLA1

PRIMA

ATHENA-MONO

CARACTERÍSTICAS COMUNES ENSAYOS iPARP+/-Beva:

- Estadíos III y IV
- Histología: Ca epitelial de alto grado de ovario, trompa o primario peritoneal
- **Pacientes platino-sensibles (RC/RP/NEE)**
- Toda la población a estudio (salvo SOLO 1) y estratificadas por status molecular
- Mismo endpoint 1º (PFS) y 2º (OS, PFS2, TFST, TSST, seguridad, QoL)

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SOLO1

PAOLA1

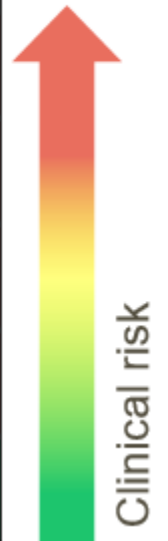
PRIMA

ATHENA-MONO

High-risk factors:^{*1}

- Stage IV disease
- Visible residual disease or no surgery
- ICS/NACT or no surgery
- PR to chemotherapy²
- BRCAwt, BRCAnd, or missing

	Stage IV disease	Visible residual disease [†]	Neoadjuvant chemotherapy	PR to chemotherapy	BRCAwt
PRIMA³⁻⁵	35%	47% [‡]	67%	31%	70% ^c
PAOLA-1^{6,7}	30%	40%	42%	27% [#]	70%
PRIME^{8††}	28%	22% [§]	47%	18%	67% ^o
ATHENA-MONO⁹	25%	38%	51%	18%	79%
SOLO1^{10,11}	17%	23%	35%	18%	0%

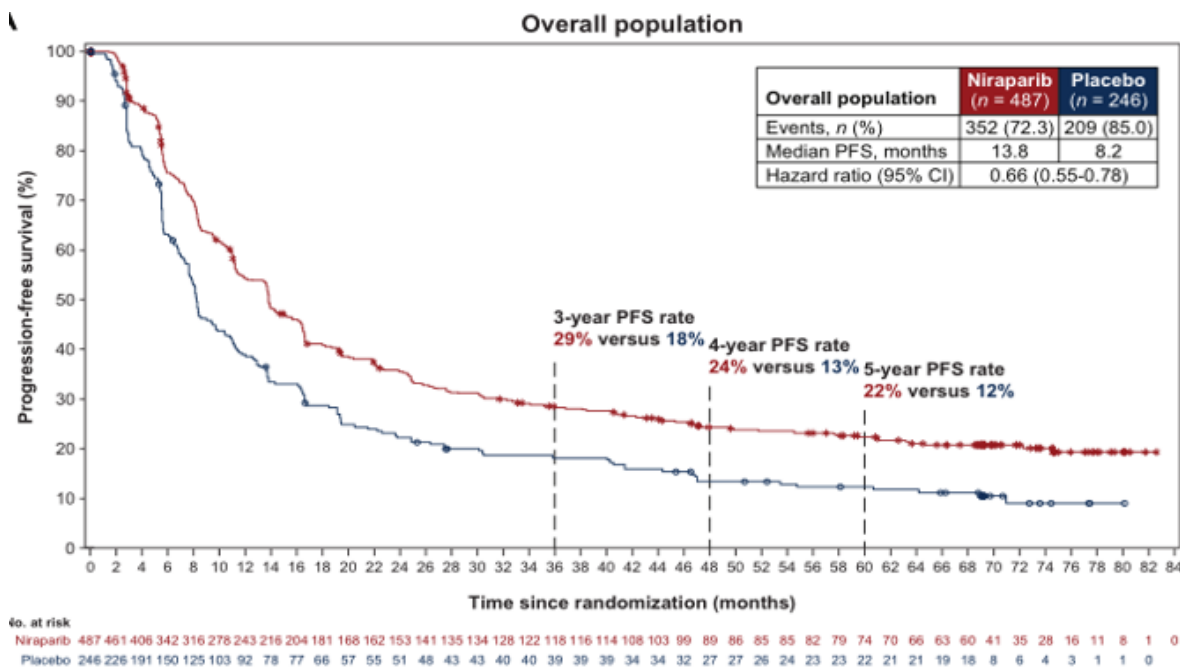


¹Chase D, Perhanidis J, Gupta D, Kalilani L, Golembesky A, González-Martín A. Association of Multiple High-Risk Factors on Observed Outcomes in Real-World Patients With Advanced Ovarian Cancer Treated With First-Line Therapy. JCO Clinical Cancer Informatics. 2023;7:e2200189. 2. <https://www.uptodate.com/contents/medical-treatment-for-relapsed-epithelial-ovarian-fallopian-tube-or-peritoneal-cancer-platinum-sensitive-disease#disclaimerContent>; 3. González-Martín A, et al. N Engl J Med 2019;381:2391–402; 4. González-Martín A, et al. Presented at ESGO 2019, 2–5 Nov, Athens, Greece; 5. Braicu EI, et al. Presented at ESGO SoA 2020, 14–16 Dec (virtual); 6. Ray-Coquard I, et al. N Engl J Med 2019;381:2416–28; 7. Ray-Coquard I, et al. N Engl J Med 2019;381:2416–28 (Supplementary Appendix); 8. Li N, et al. Presented at SGO 2022, 18–21 Mar, Phoenix, AZ; 9. Monk BJ, et al. J Clin Oncol 2022;40:3952–64; 10. Moore K, et al. N Engl J Med 2018;379:2495–505; 11. Moore K, et al. N Engl J Med 2018;379:2495–505 (Supplementary Appendix).

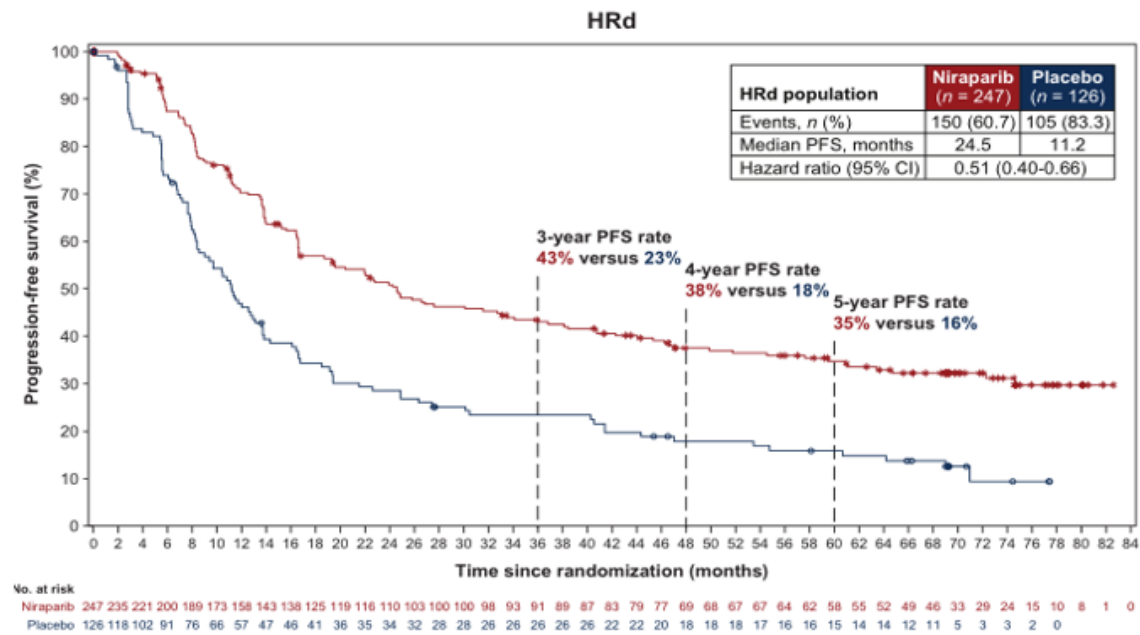
Pacientes HRD+/BRCAm

PFS

ITT



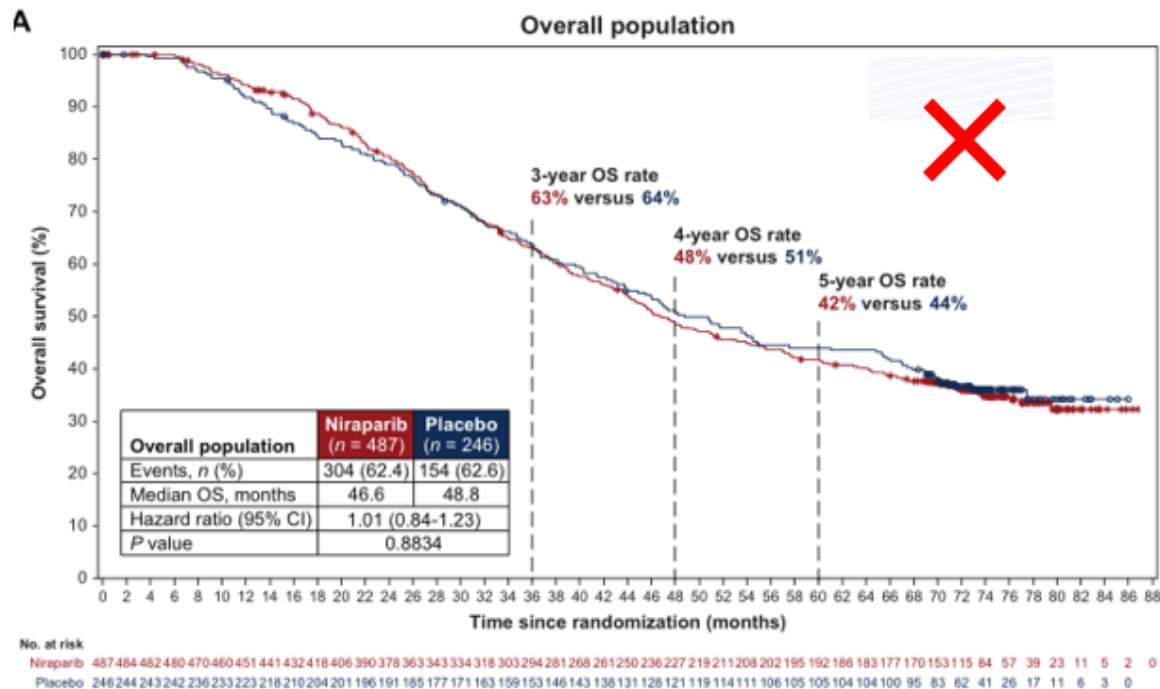
HRD+/BRCA



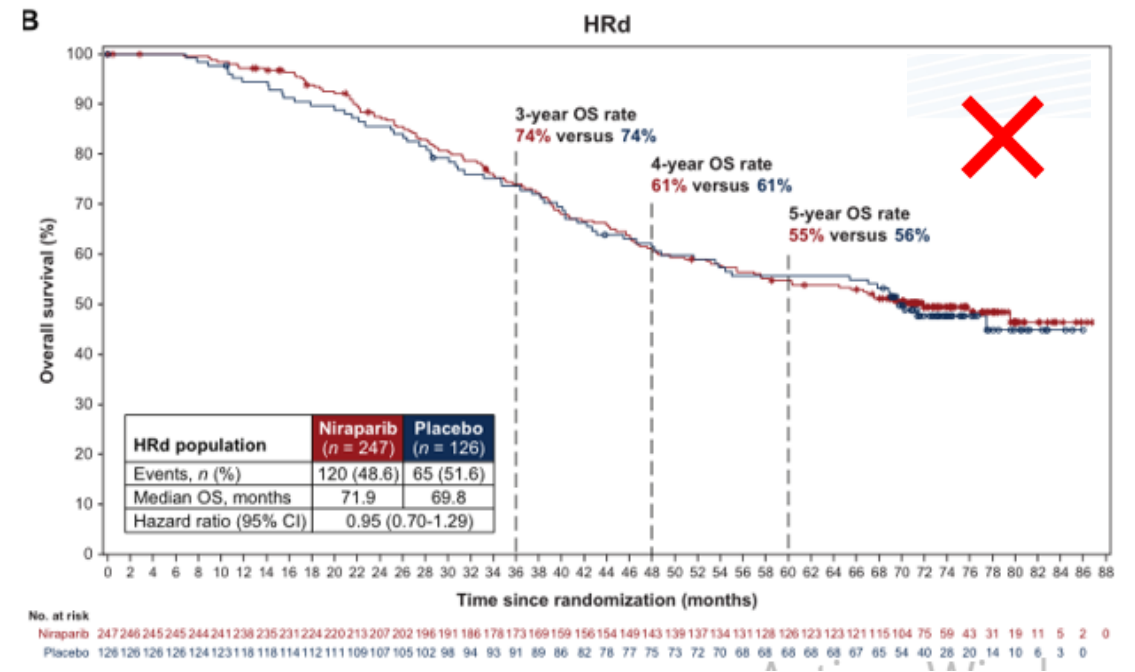
Pacientes HRD+/BRCAm

OS

ITT



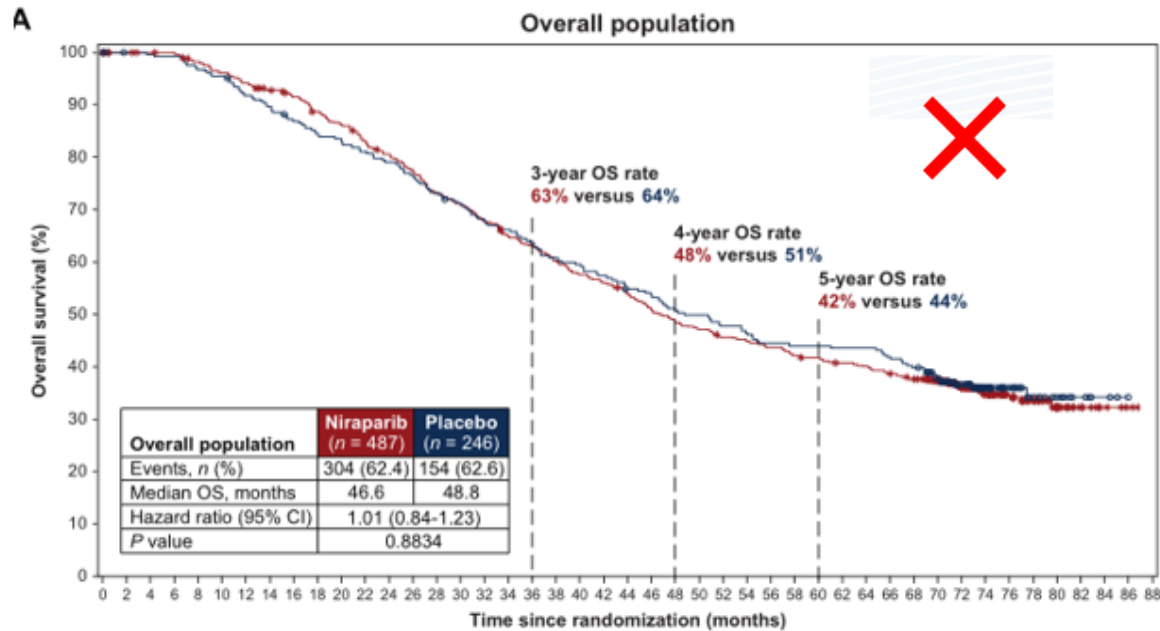
HRD+/BRCA



Pacientes HRD+/BRCAm

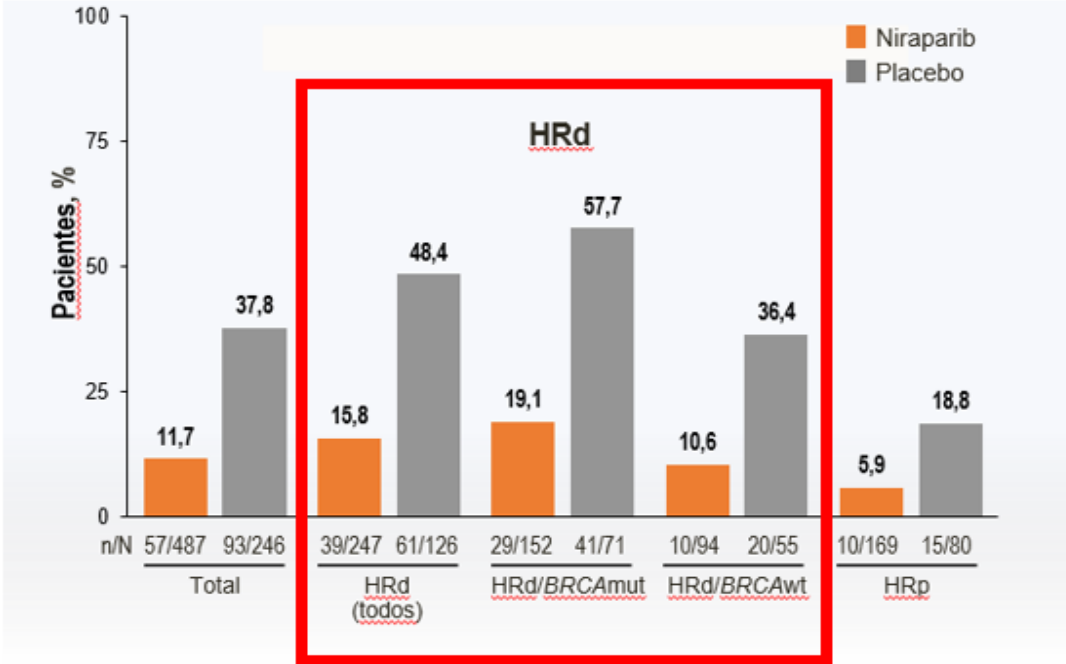
OS

ITT



No. at risk
 Niraparib 487 484 482 480 470 460 451 441 432 418 406 390 378 363 343 334 318 303 294 281 268 261 250 236 227 219 211 208 202 195 192 186 183 177 170 153 115 84 57 39 23 11 5 2 0
 Placebo 246 244 243 242 236 233 223 218 210 204 201 196 191 185 177 171 163 159 153 146 143 138 131 128 121 119 114 111 106 105 105 104 104 100 95 83 82 41 26 17 11 6 3 0

Tratamiento con iPARP posterior



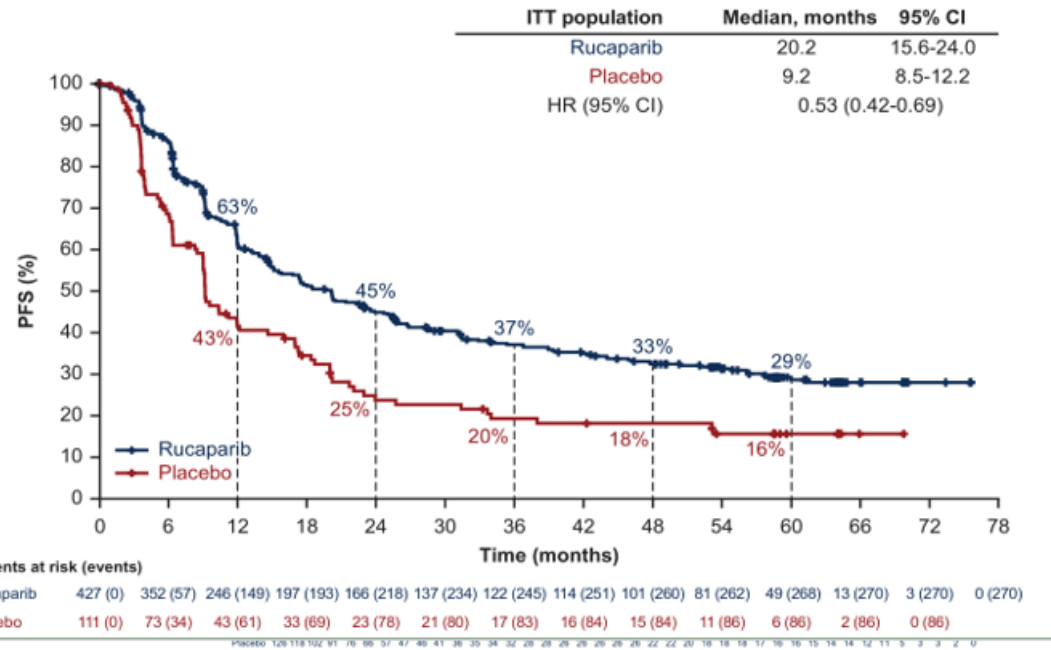
Adaptado de González-Martín A, et al. Presentado en ESMO. 2024¹

Pacientes HRD+/BRCAm

PFS

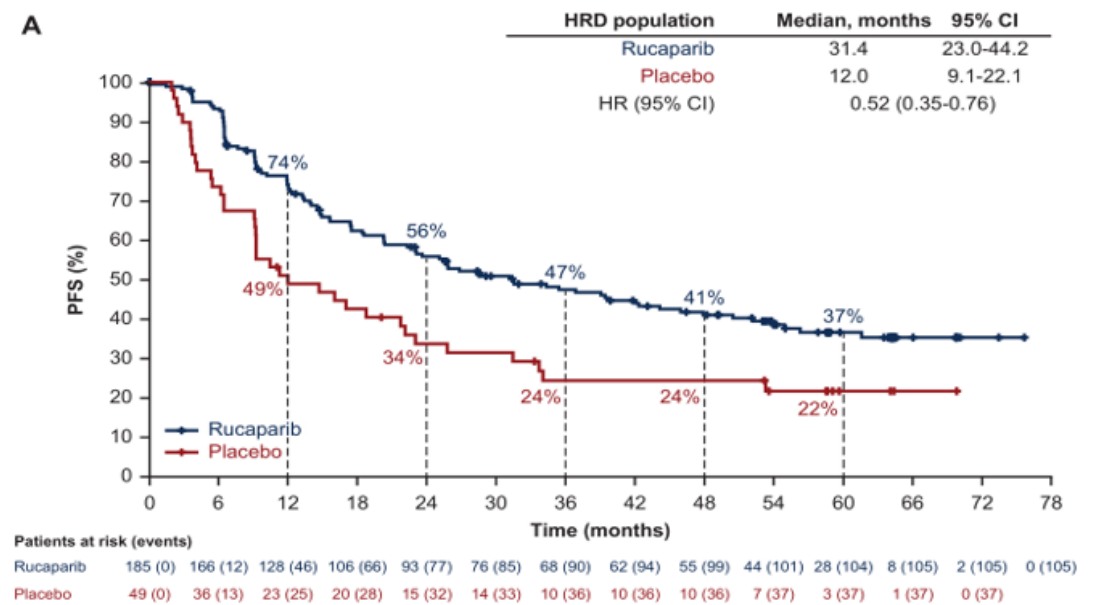
ITT

B



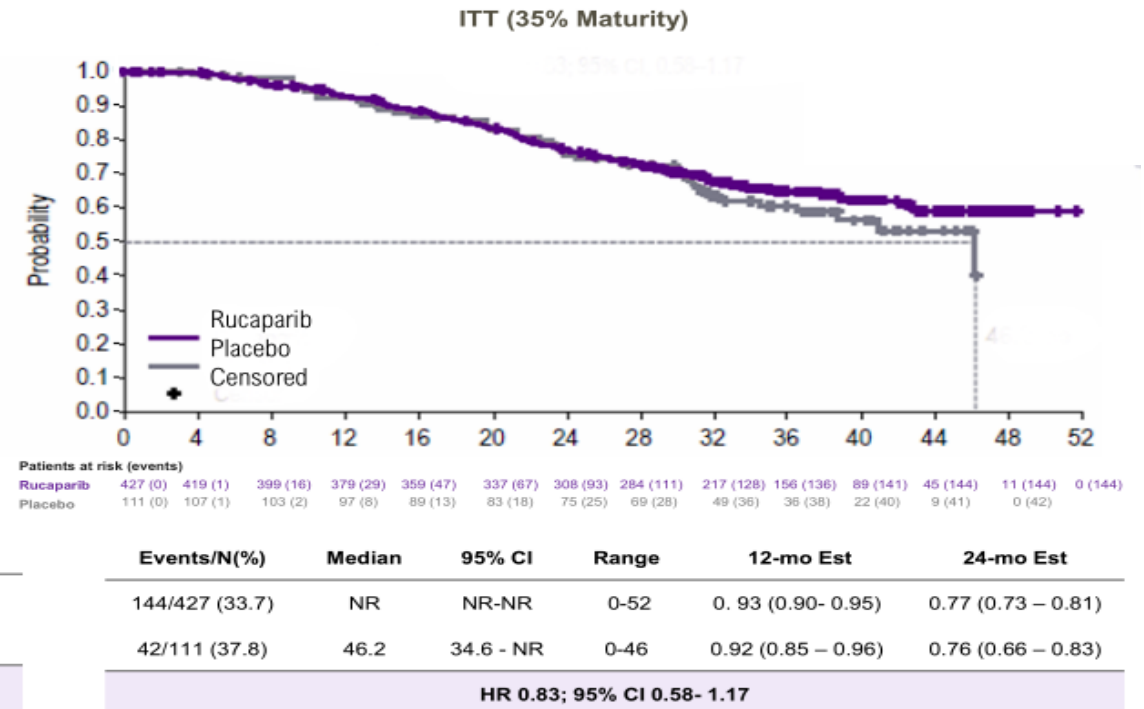
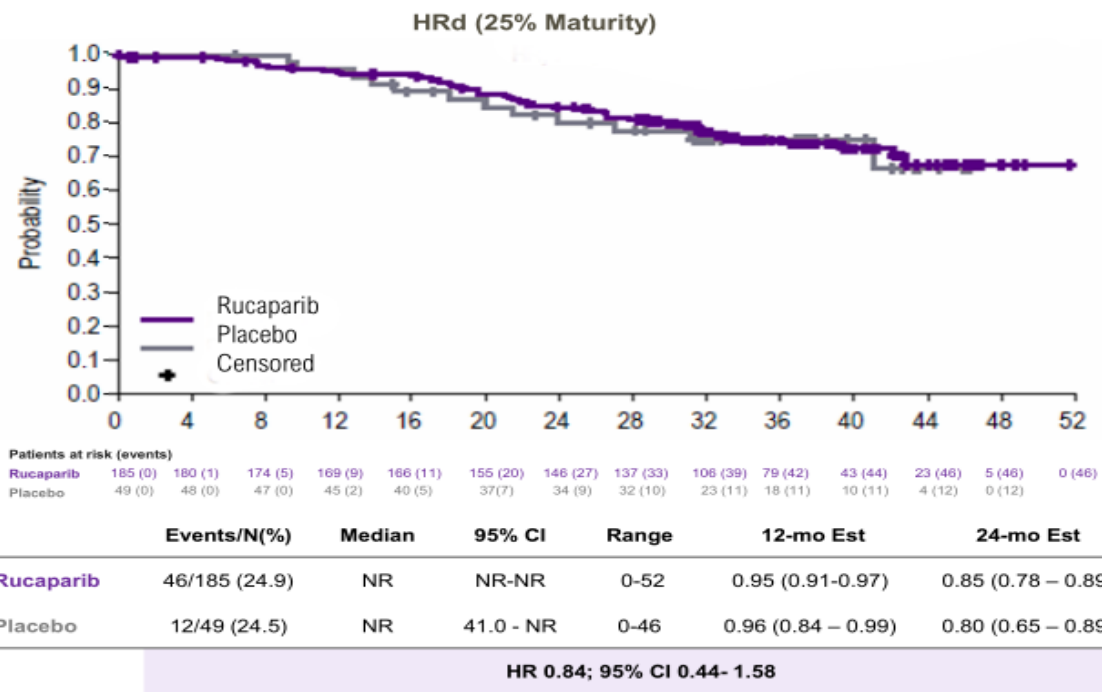
HRD+/BRCA

A



Pacientes HRD+/BRCAm

OS

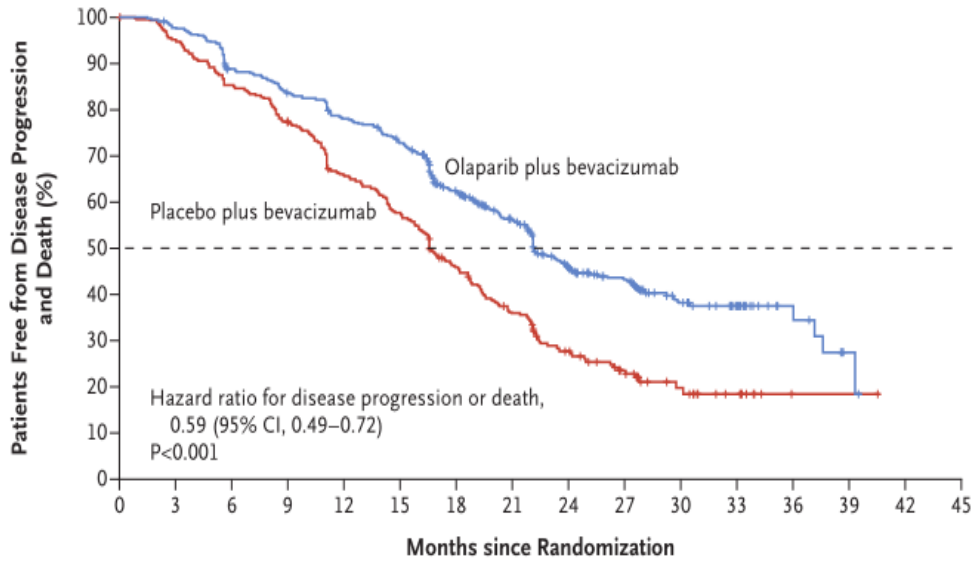


1. Kristeleit RS, O’Mally DM, et al. Interim post-progression data and updated survival in patients with newly diagnosed advanced ovarian cancer in ATHENA-MONO. Presented at: SGO Annual Meeting; 2024 Mar; San Diego, CA. 2. Kristeleit RS, Ghamande S, et al.. Ann Oncol. 2025

Pacientes HRD+/BRCAm

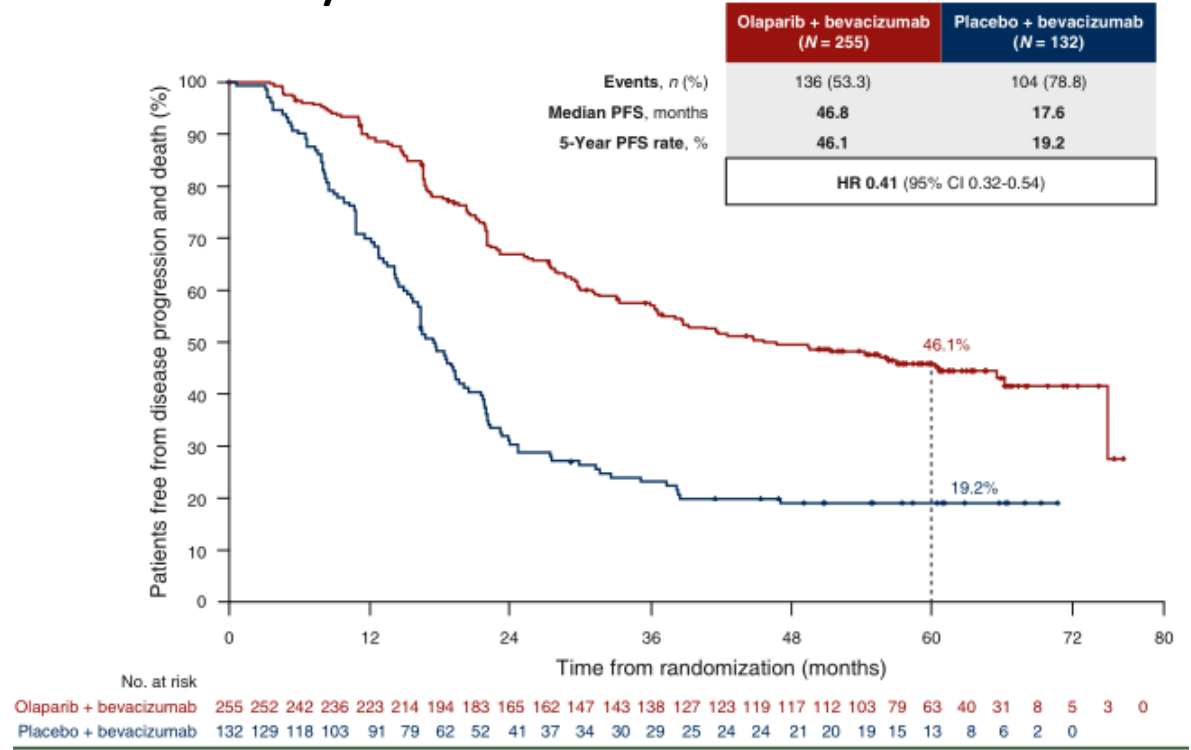
PFS

ITT



No. at Risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45
Olaparib plus bevacizumab	537	513	461	433	403	374	279	240	141	112	55	37	12	3	0	
Placebo plus bevacizumab	269	252	226	205	172	151	109	83	50	35	15	9	1	1	0	

HRD+/BRCA

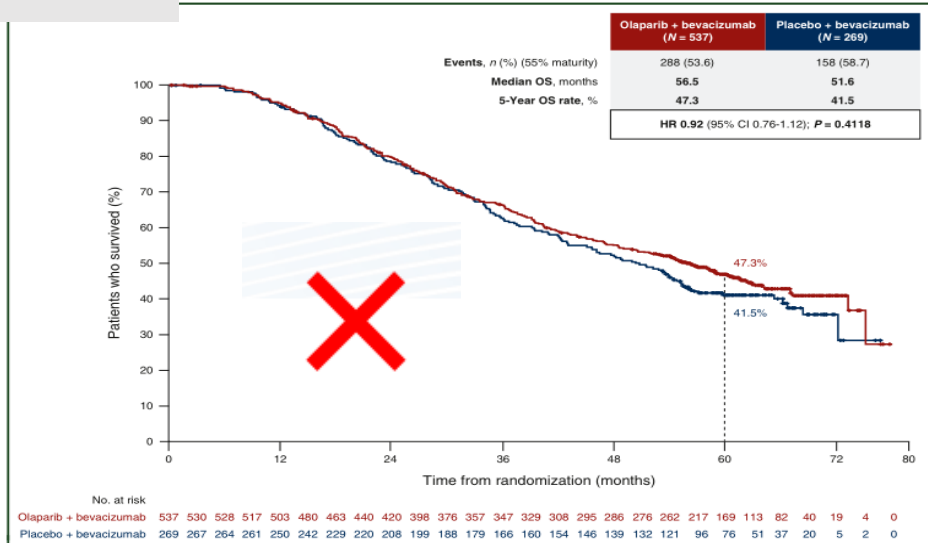


1. Ray-Coquard I, Pautier P, Pignata S, et al. N Engl J Med. 2019;381(25):2416-2428. 2. Ray-Coquard I et al. Annals of Oncology.2023;34(8):681-692

Pacientes HRD+/BRCAm

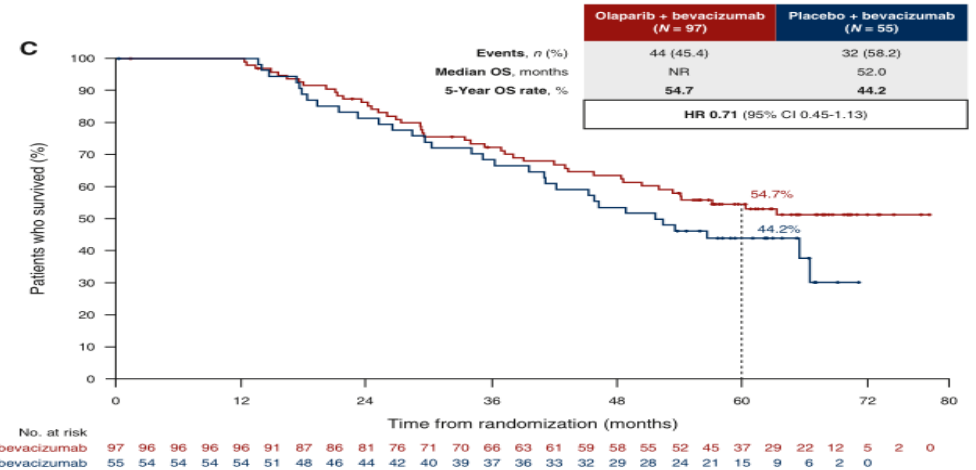
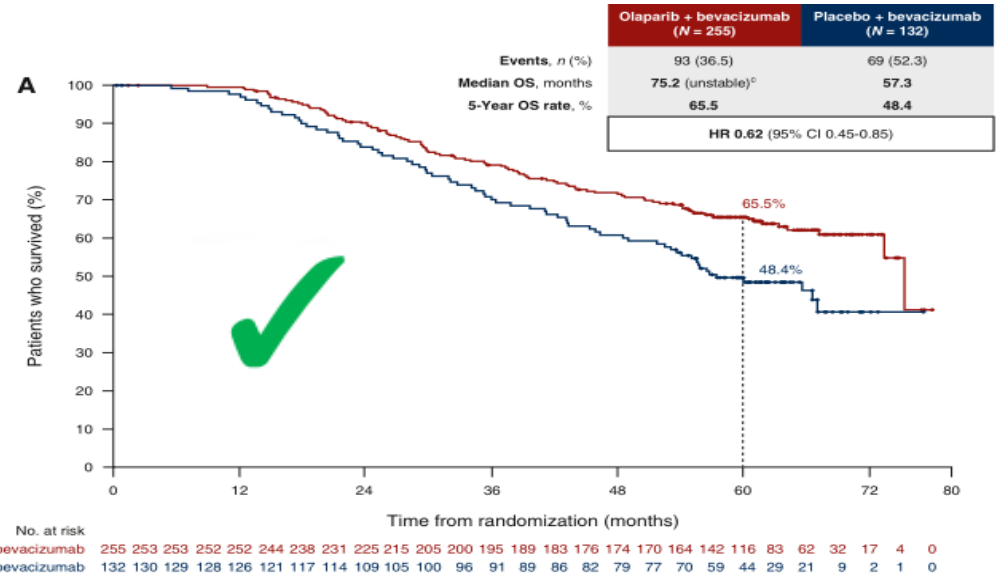
OS

ITT



HRD+
BRCAm

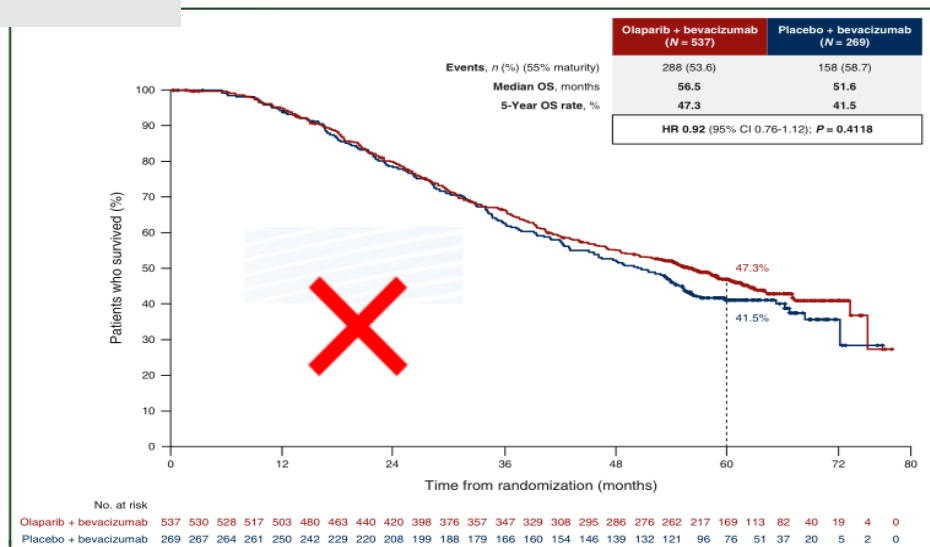
HRD+
BRCAwt



Pacientes HRD+/BRCAm

OS

ITT



Patients receiving a PARP inhibitor during any subsequent treatment, %

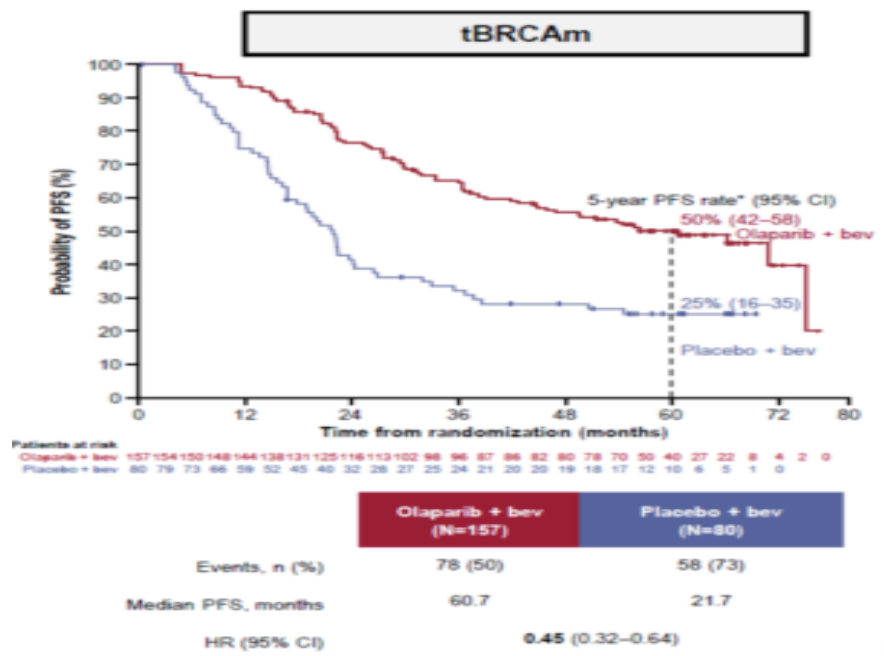
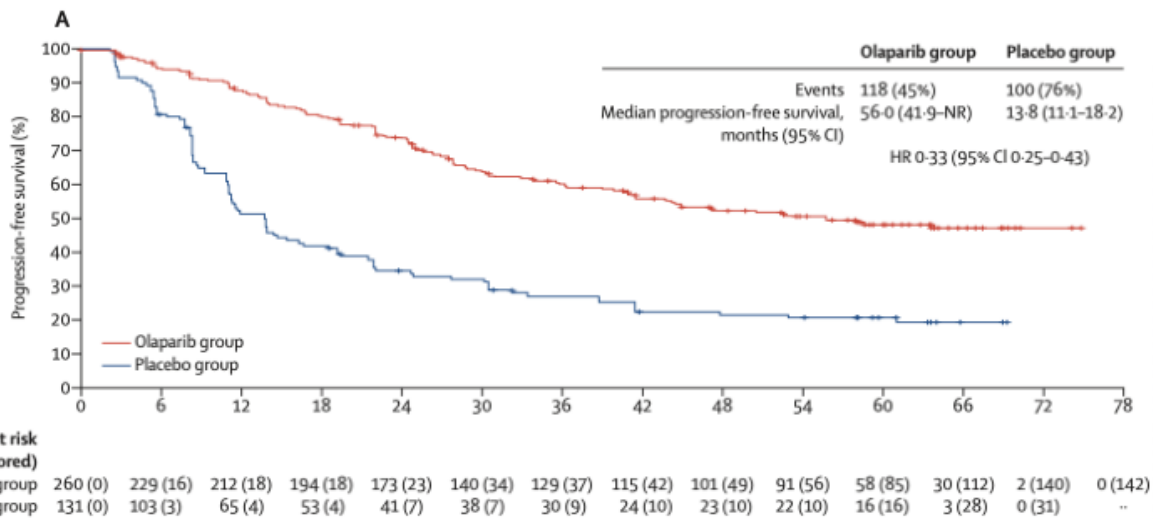
	Placebo	Olaparib
ITT	>45%	20%
HRD+	>50%	17%
HRD/BRCA wt	42%	9%
BRCAm	55%	24%

Pacientes BRCA EXCLUSIVAMENTE

PFS

SOLO 1

PAOLA 1



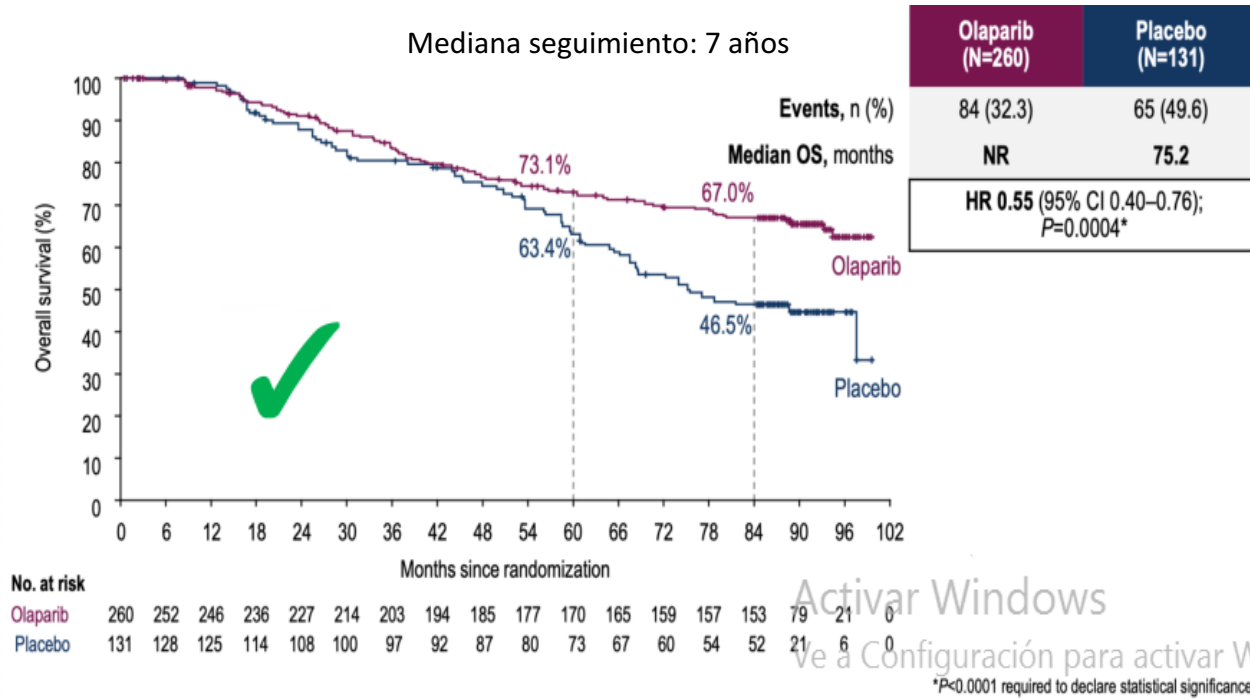
1. Banerjee S et al. Lancet Oncol 2021;22(12):1721–31. 2. Ray-Coquard I et al. Annals of Oncology. 2023;34(8):681-692

Pacientes BRCA EXCLUSIVAMENTE

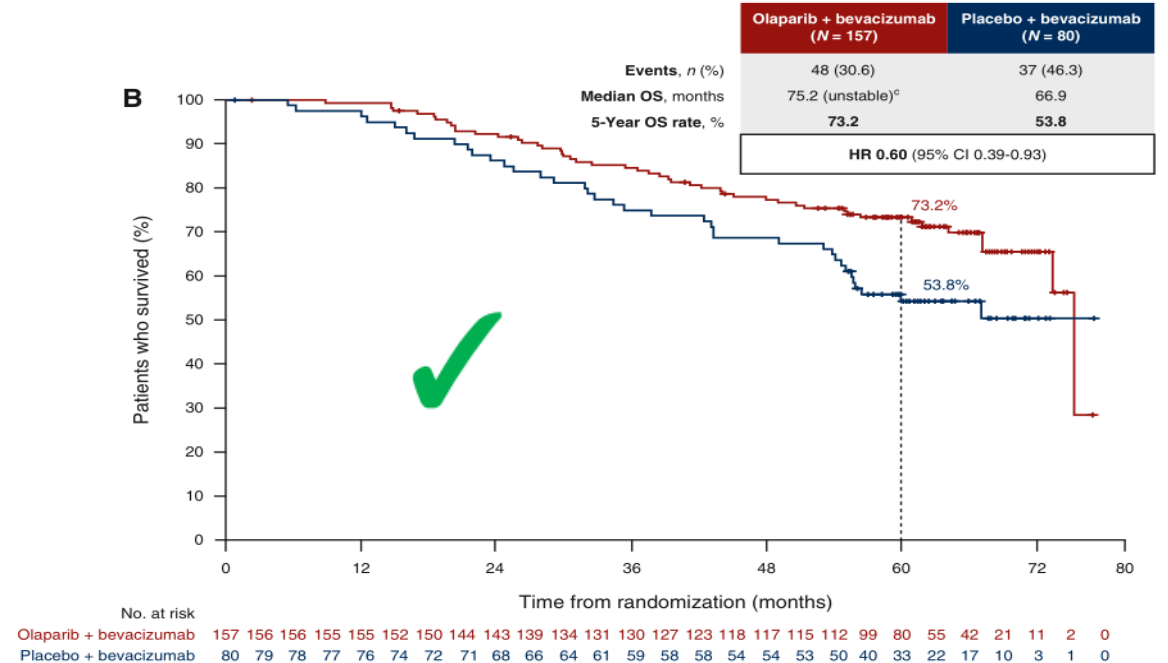
OS

SOLO 1

Mediana seguimiento: 7 años



PAOLA 1

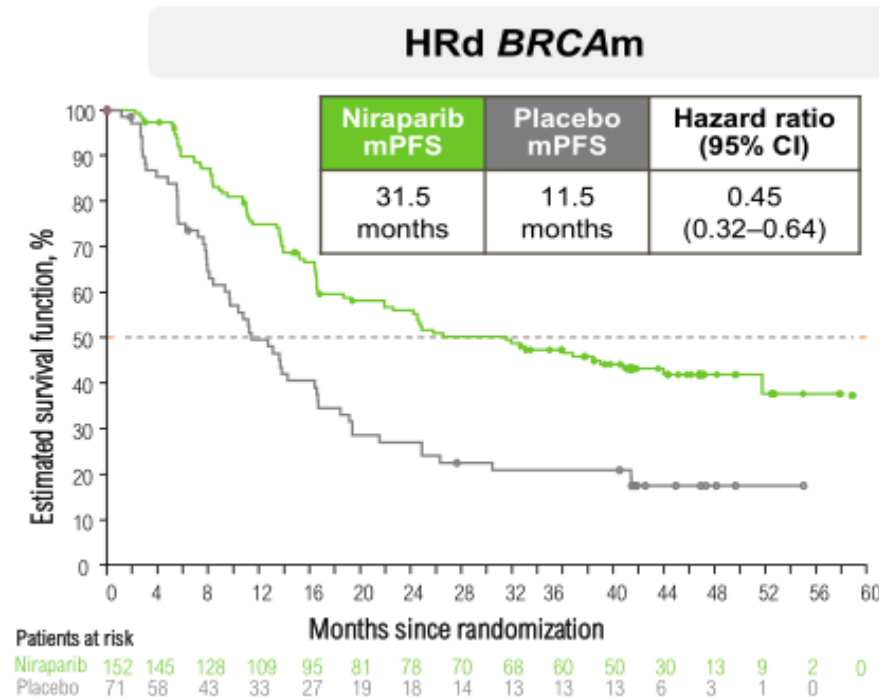
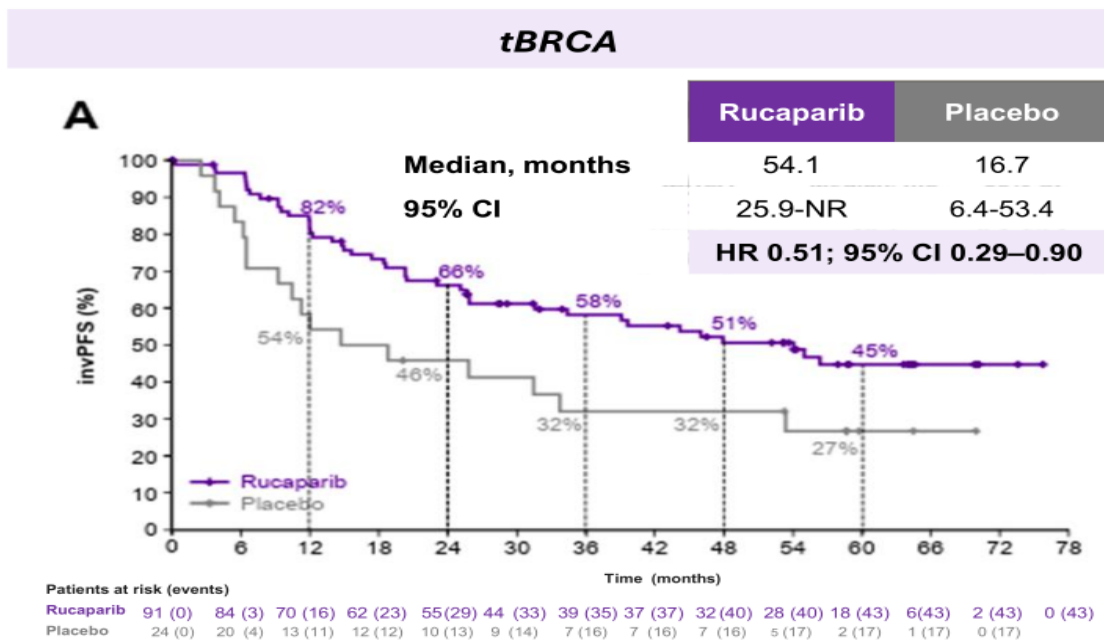


Pacientes BRCA EXCLUSIVAMENTE

ATHENA-MONO

PRIMA

PFS



1. Kristeleit RS, Ghamande S, Lisyanskaya A, et al. Ann Oncol. 2025; Oct 18:S0923-7534(25)04950-6. 2. González-Martín A, Pothuri B, Vergote I, et al. Progression-free survival and safety at 3.5years of follow-up: results from the randomised phase 3 PRIMA/ENGOT-OV26/GOG-3012 trial of niraparib maintenance treatment in patients with newly diagnosed ovarian cancer. Eur J Cancer. 2023;189(112908):112908

¿Cuándo realizar mantenimiento con iPARP?

Maintenance options for high grade serous
or
endometrioid AOC responding to platinum

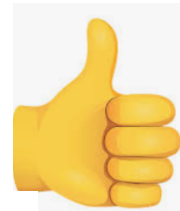
BRCA 1/ 2 mut

- Olaparib
- Niraparib
- Rucaparib
- Olaparib+Bevacizumab*



HRD/BRCAct

- Niraparib
- Rucaparib
- Olaparib+Bevacizumab*



HRP

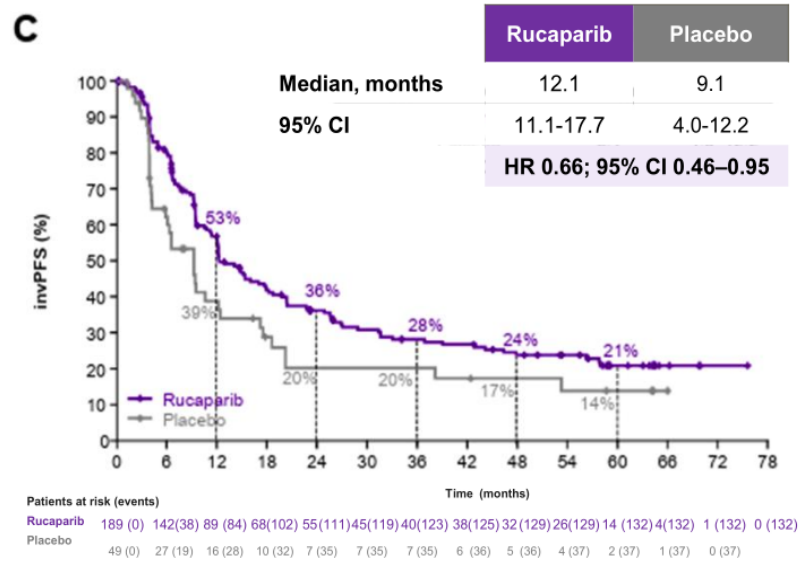
- Niraparib
- Rucaparib
- Bevacizumab*



Pacientes HRP

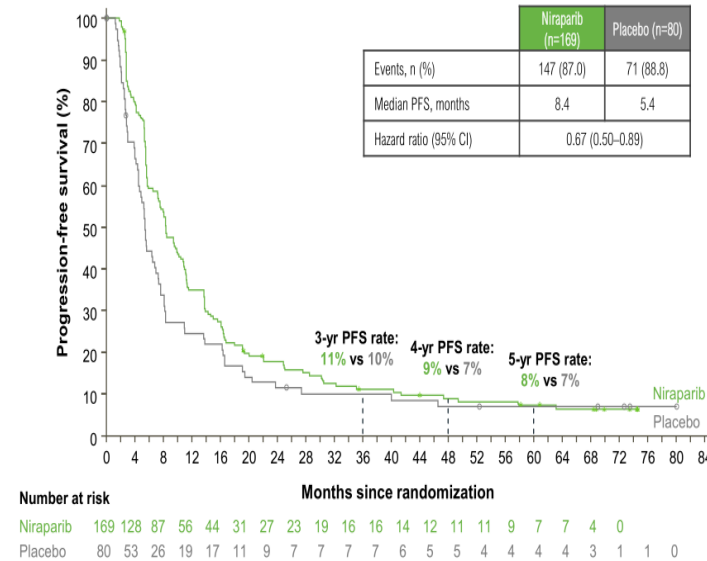
ATHENA-MONO

BRCA wild-type/LOH^{low}

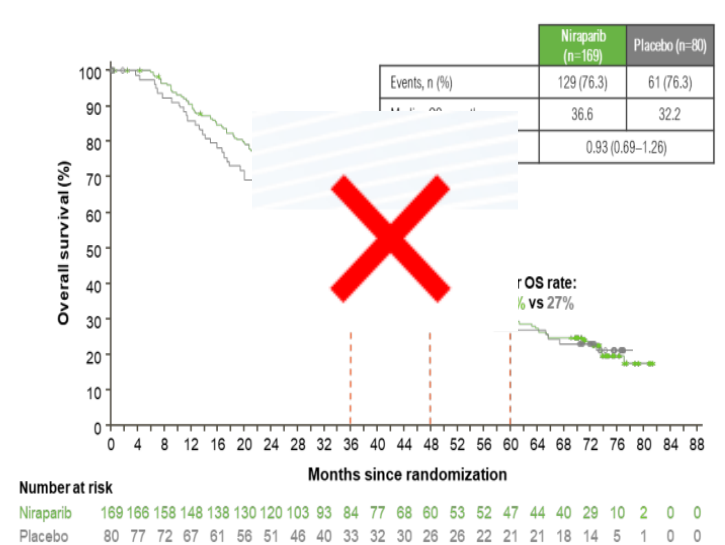


PRIMA

PFS in HRp



OS in HRp



Tiempo medio (meses) de PFS con Ruca/Nira: **12.1 (ATHENA-M)/8.4 (PRIMA)**, HR: 0.66, 0.67, respectivamente

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Pacientes
HRP



PARPi alone

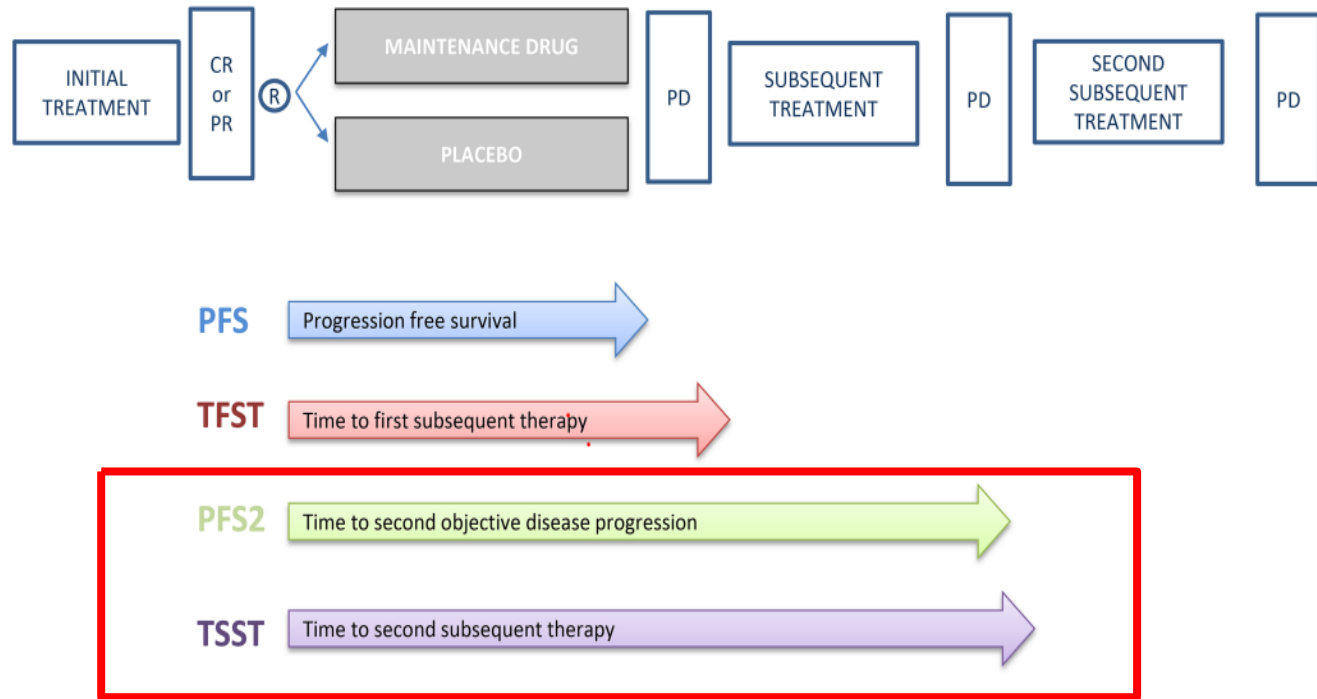
Bevacizumab

SI ¡PARP NO IMPACTA EN OS... ¿HAY IMPACTO DE OTROS ENDPOINT SECUNDARIOS?



Outcomes and endpoints of relevance in gynecologic cancer clinical trials

Ainhoa Madariaga ¹, Rodrigo Sanchez-Bayona, ¹ Fernanda G Herrera, ² Pedro T Ramirez ³, Antonio González Martín ⁴



Review

Review

Other Time to Event Endpoints

Other time to event endpoints, including time from randomization to progression on the second-line therapy or death (progression-free survival two) and time to second subsequent therapy, can be used as secondary outcomes in phase III clinical trials (Figure 1).⁴¹ These measures are important to support the hypothesis that the benefit provided by the increase in progression-free survival is maintained over time, and the disease remains controlled at a longer term.⁴¹ In cases where it is not feasible to ensure regular disease reassessment until the time of second progression, time to second subsequent therapy should be used instead of progression-free survival two.

Regulatory agencies recommend that maintenance trials should report the impact in the subsequent line of therapy. Both progression-free survival two and time to second subsequent therapy have an important role in studies assessing maintenance strategies.⁴¹ Prolonged administration of a treatment as maintenance may reduce the ability of patients to benefit from the same or similar agents; patients could develop cross-resistances and treatment-related toxicity that might decrease tolerance to subsequent therapy. Analysis of the benefit in time to second subsequent therapy could help to elucidate whether a statistically non-significant difference in overall survival might be real.⁴¹

SI iPARP NO IMPACTA EN OS... ¿HAY IMPACTO DE OTROS ENDPOINT SECUNDARIOS?

PFS2 ITT en PRIMA:
30,1 vs 27.6 HR 0.96 (0.79-1.17)
PFS2 HRP en PRIMA:
21.4 vs 18.1 HR 0.90 (0.66-1.23)

PRIMA

Monk BJ et al

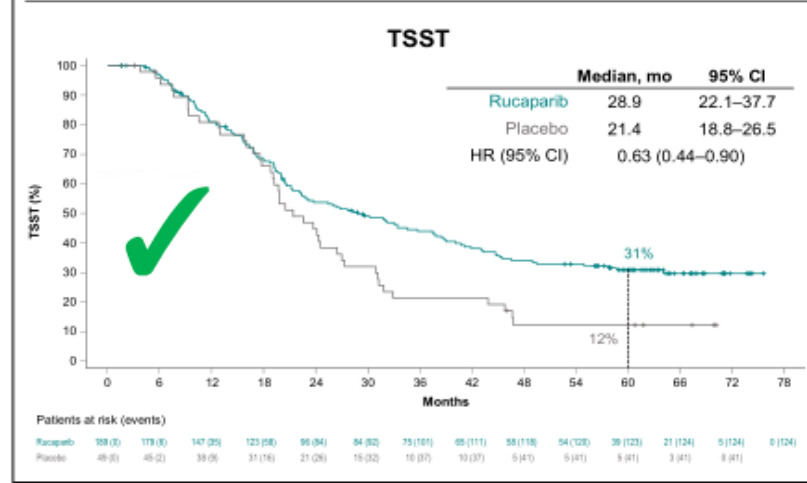
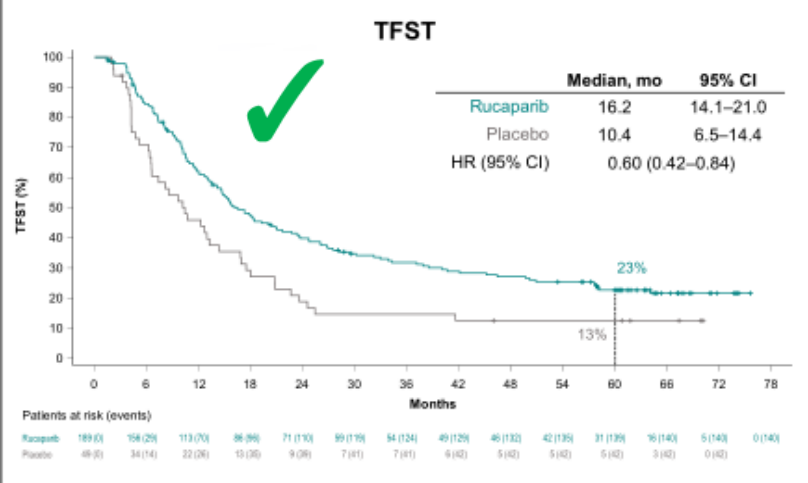
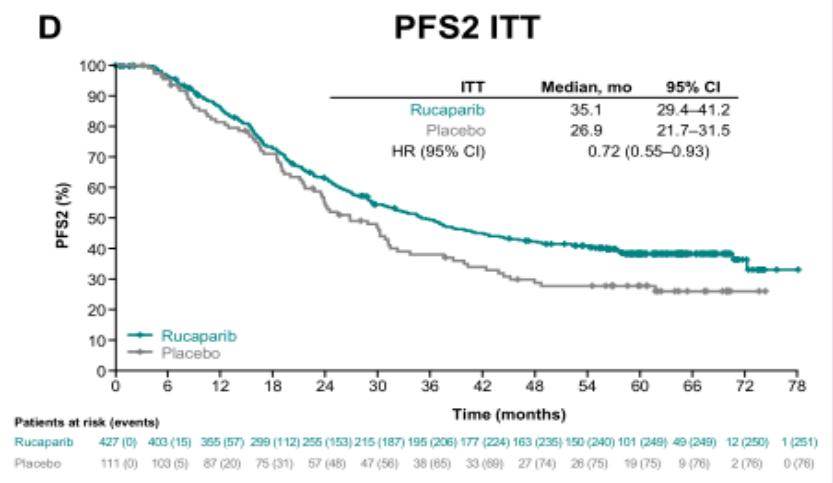
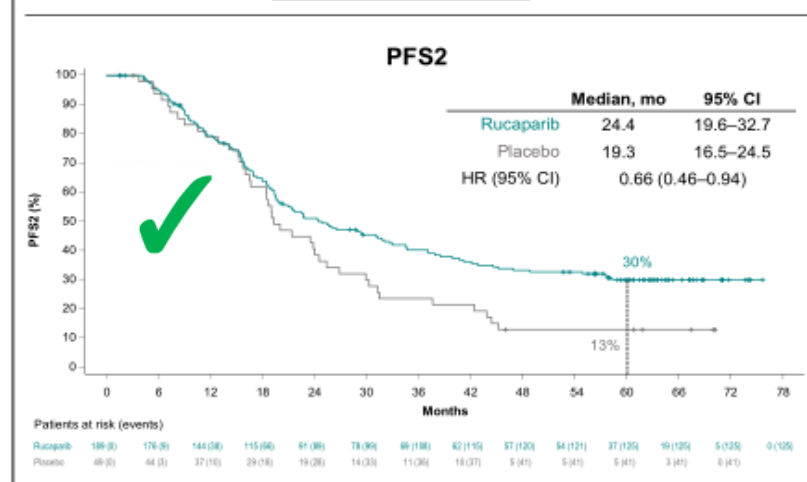
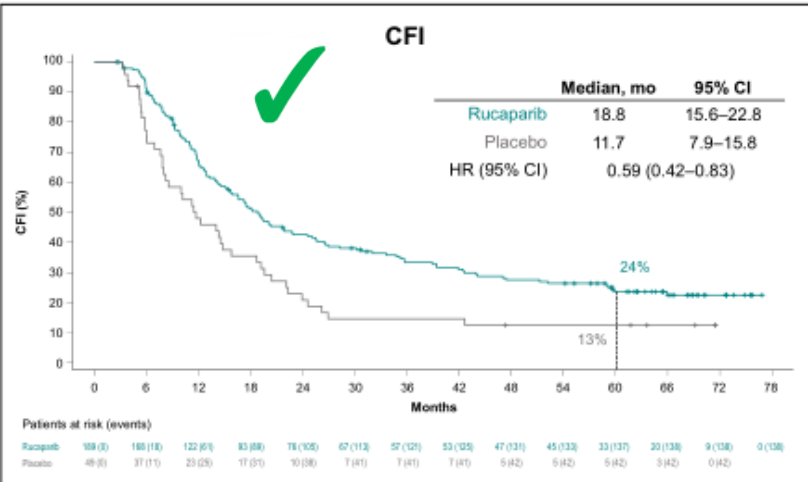
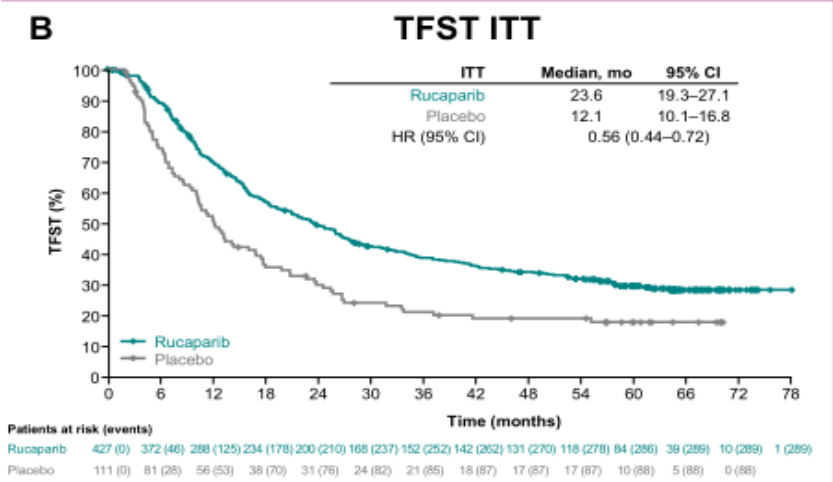
Table S2. Time to first subsequent treatment and progression-free survival 2

Prespecified secondary efficacy endpoint	Overall population		All HRd		HRd/ <i>BRCA</i> m		HRd/ <i>BRCA</i> wt		HRp	
	Niraparib (n = 487)	Placebo (n = 246)	Niraparib (n = 247)	Placebo (n = 126)	Niraparib (n = 152)	Placebo (n = 71)	Niraparib (n = 94)	Placebo (n = 55)	Niraparib (n = 169)	Placebo (n = 80)
TFST										
Median, months	17.0	12.0	26.9	13.9	34.3	14.9	22.5	12.9	11.6	7.9
Hazard ratio, 95% CI	0.74 (0.62-0.89)		0.55 (0.43-0.71)		0.45 (0.32-0.62)		0.76 (0.50-1.14)		0.88 (0.65-1.18)	
PFS2										
Median, months	30.1	27.6	43.4	39.3	46.6	46.5	38.0	34.1	21.4	18.1
Hazard ratio, 95% CI	0.96 (0.79-1.17)		0.87 (0.66-1.17)		0.90 (0.61-1.32)		0.88 (0.57-1.36)		0.90 (0.66-1.23)	

Hazard ratios and 95% CIs for HRd/*BRCA*wt and HRp were calculated using unstratified Cox proportional hazards models.

*BRCA*m, *BRCA*-mutated; *BRCA*wt, *BRCA* wild-type; CI, confidence interval; HRd, homologous recombination deficient; HRp, homologous recombination proficient; PFS2, progression-free survival 2; TFST, time to first subsequent treatment.

SI iPARP NO IMPACTA EN OS... ¿HAY IMPACTO DE OTROS ENDPOINT SECUNDARIOS?



LIMITACIONES DEL TEST HRD

Argumentos

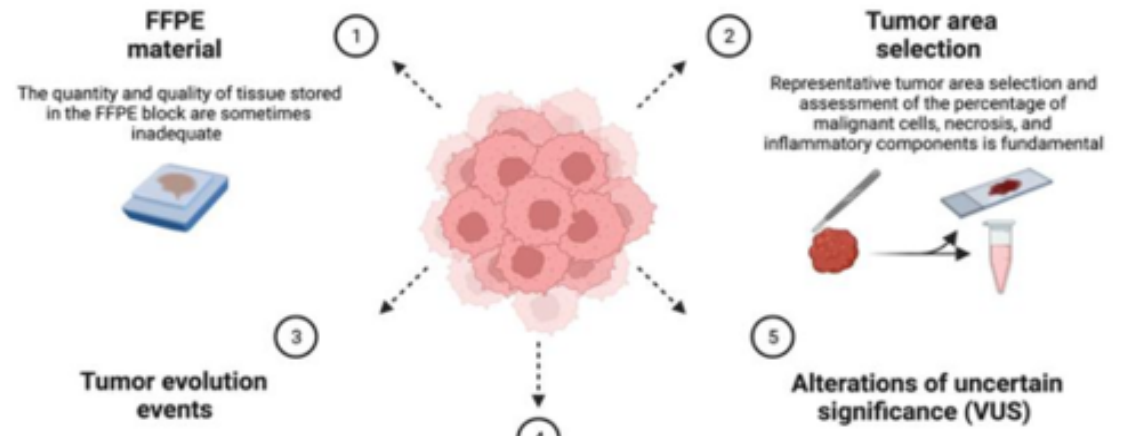
Definición dicotómica.

Calidad de la muestra.

Heterogeneidad intratumoral.

Diferentes puntos

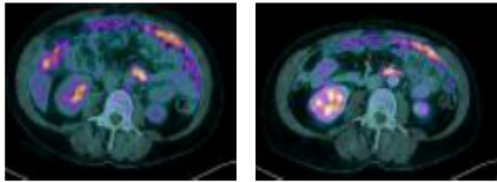
Limitations of HRD assays



LA RESPUESTA AL PLATINO SIGUE SIENDO UN IMPORTANTE FACTOR PREDICTOR DE RESPUESTA A LOS iPARP, ESPECIALMENTE EN LAS PACIENTES HRP

¿CÓMO MEDIR LA PLATINO-SENSIBILIDAD?

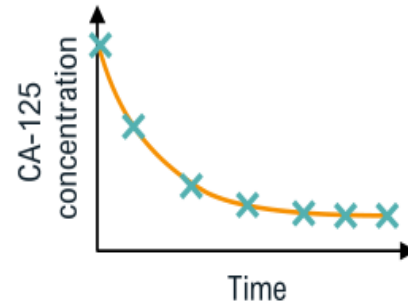
Radiological (RECIST)²



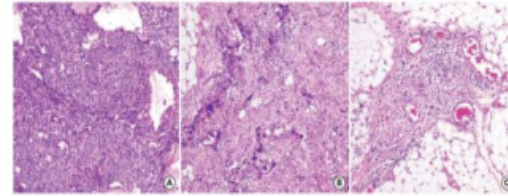
Baseline

After 3 cycles

Biochemical CA-125 (KELIM)⁴



Pathological (CRS)⁶



CRS1: No or minimal tumor response

CRS2: Appreciable tumor response amid viable tumor that is readily identifiable

CRS3: Complete or near-complete response with no residual tumor

Symptomatic response⁸

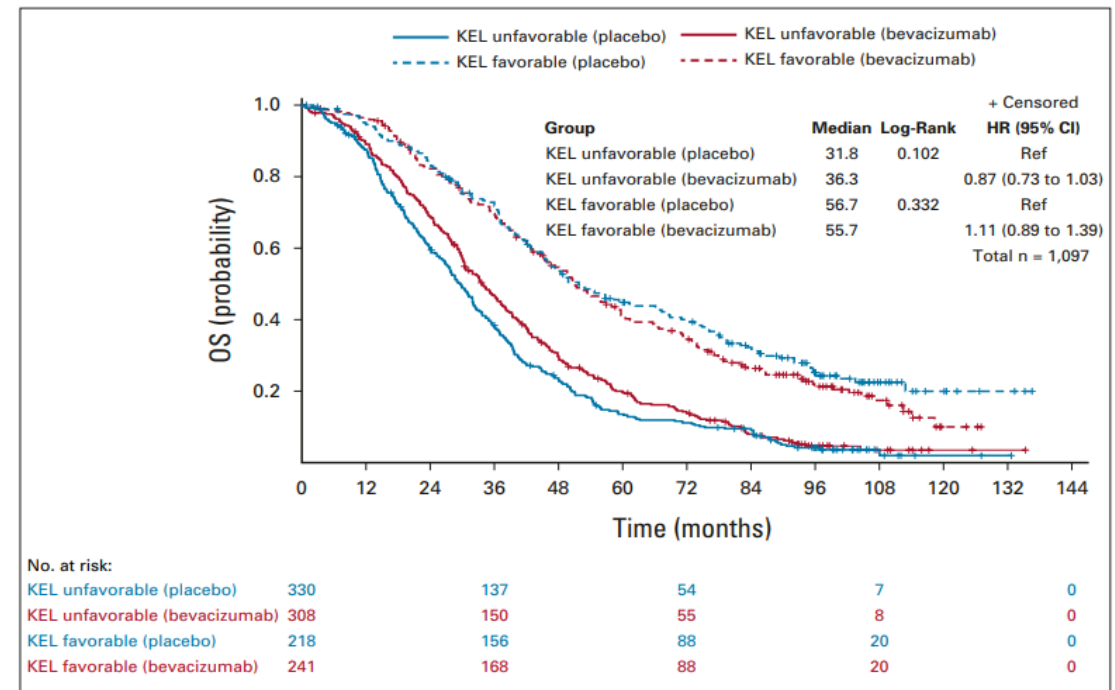
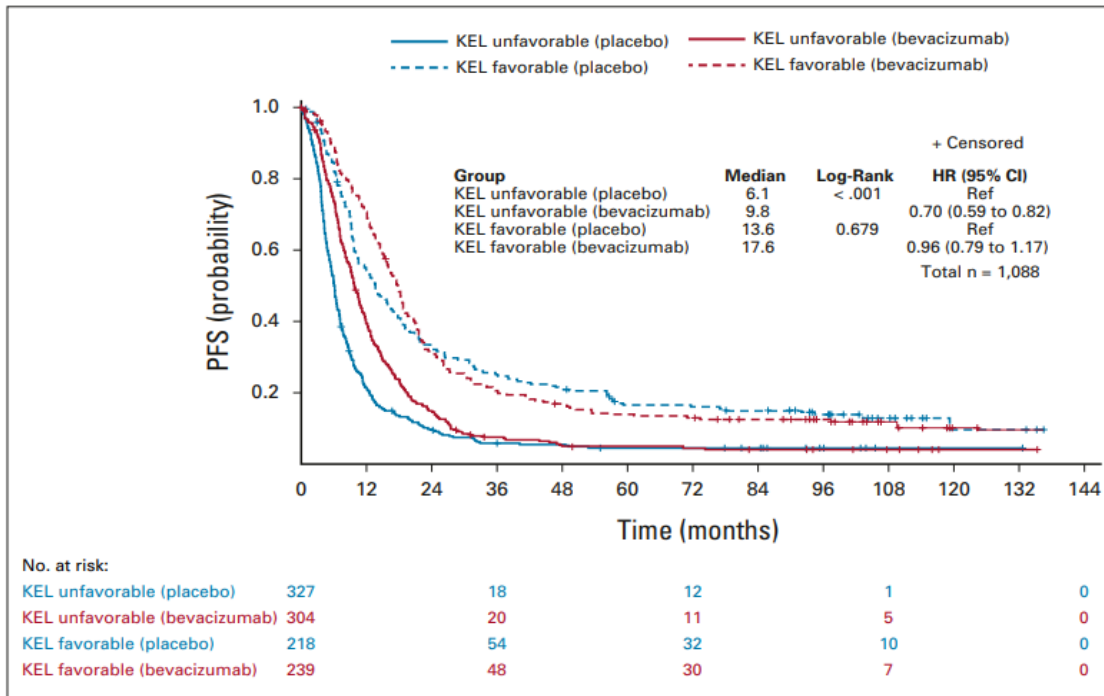


- Radiológica: **RECIST**
- Bioquímica: **KELIM** (mide la cinética de eliminación del CA 125)
- Patológica: **CRS** (exámen histológico del omento tras NACT)
- **Clínica** (ascitis, dolor abdominal, disnea, suboclusión...)

KELIM DEFINE BENEFICIO A BEVACIZUMAB

Identification of Patients With Ovarian Cancer Experiencing the Highest Benefit From Bevacizumab in the First-Line Setting on the Basis of Their Tumor-Intrinsic Chemosensitivity (KELIM): The GOG-0218 Validation Study

No impacto de BEVA en Kelim FAVORABLE
 SI en alto riesgo y Kelim DESFAVORABLE (PFS y OS)

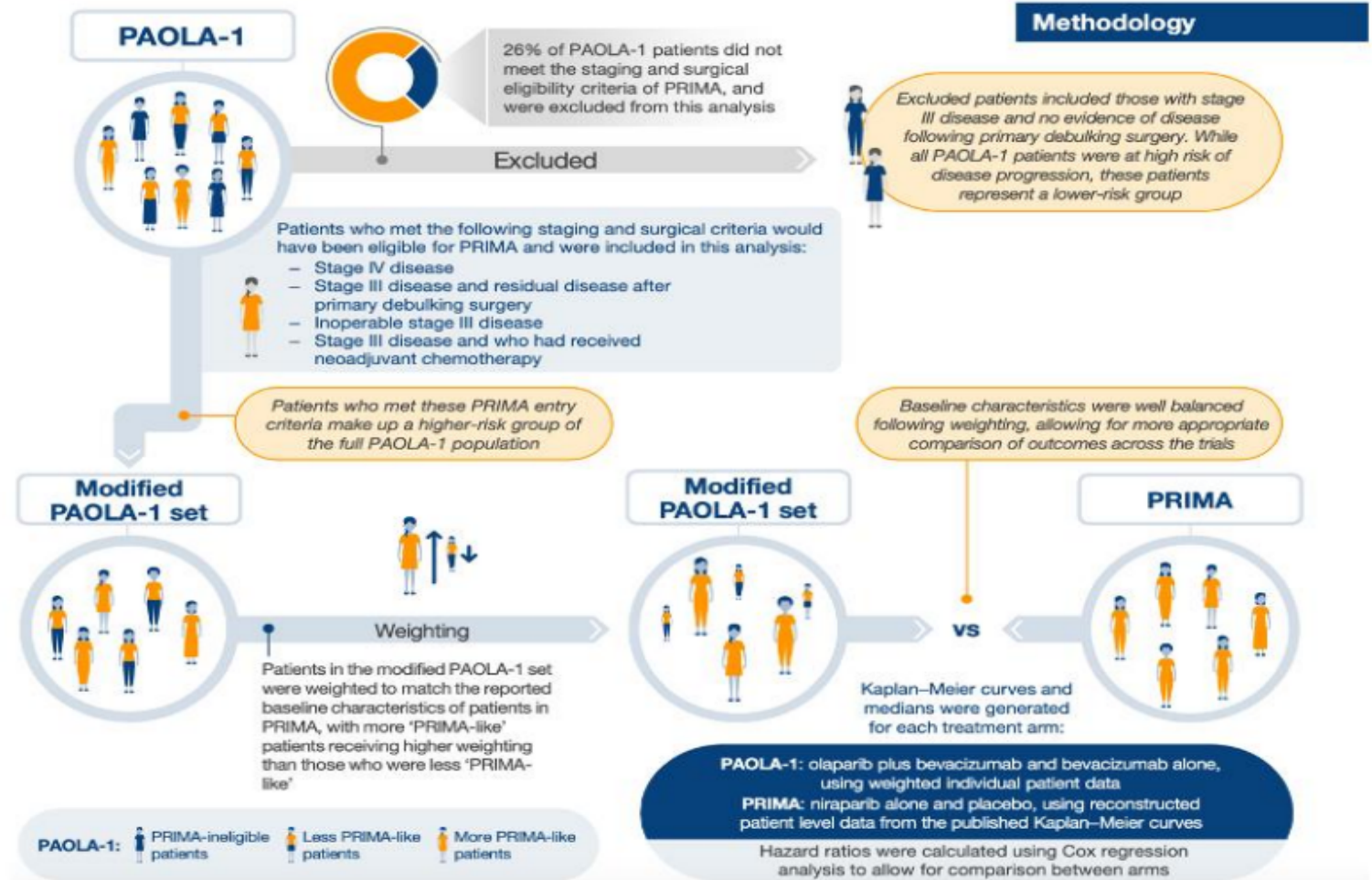


COMPARACIONES INDIRECTAS ENTRE ESTUDIOS

COMPARACIONES INDIRECTAS ENTRE ESTUDIOS

Population-adjusted indirect treatment comparison of maintenance PARP inhibitor with or without bevacizumab *versus* bevacizumab alone in women with newly diagnosed advanced ovarian cancer

Robert Hettle, Charles McCrea, Chee Khoon Lee and Richard Davidson



COMPARACIONES INDIRECTAS ENTRE ESTUDIOS

Population-adjusted indirect treatment comparison of maintenance PARP inhibitor with or without bevacizumab versus bevacizumab alone in women with newly diagnosed advanced ovarian cancer

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Niraparib vs placebo:

Beneficio a favor de NIRA en todos los subgrupos.

Niraparib vs Beva:

SI beneficio de Nira en HRD+

NO diferencias en pacientes HRP/no seleccionadas

Unadjusted-anchored ITC of PFS for niraparib versus bevacizumab in the HRD-negative population

Comparison	Hazard ratio (95% confidence interval)		
	HRD-negative	Biomarker-unselected (including HRD-negative, HRD-positive and HRD-unknown/missing)*	HRD-positive*
Placebo plus bevacizumab versus placebo	0.55 (0.43–0.70) [†]	0.55 (0.43–0.70)	0.58 (0.41–0.83)
Niraparib versus placebo	0.68 (0.49–0.94) [†]	0.59 (0.47–0.74)	0.41 (0.29–0.58)
Niraparib versus placebo plus bevacizumab	1.24 (0.82–1.86) [§]	1.07 (0.87–1.32)	0.70 (0.51–0.97)

COMPARACIONES INDIRECTAS ENTRE ESTUDIOS

Systematic Review

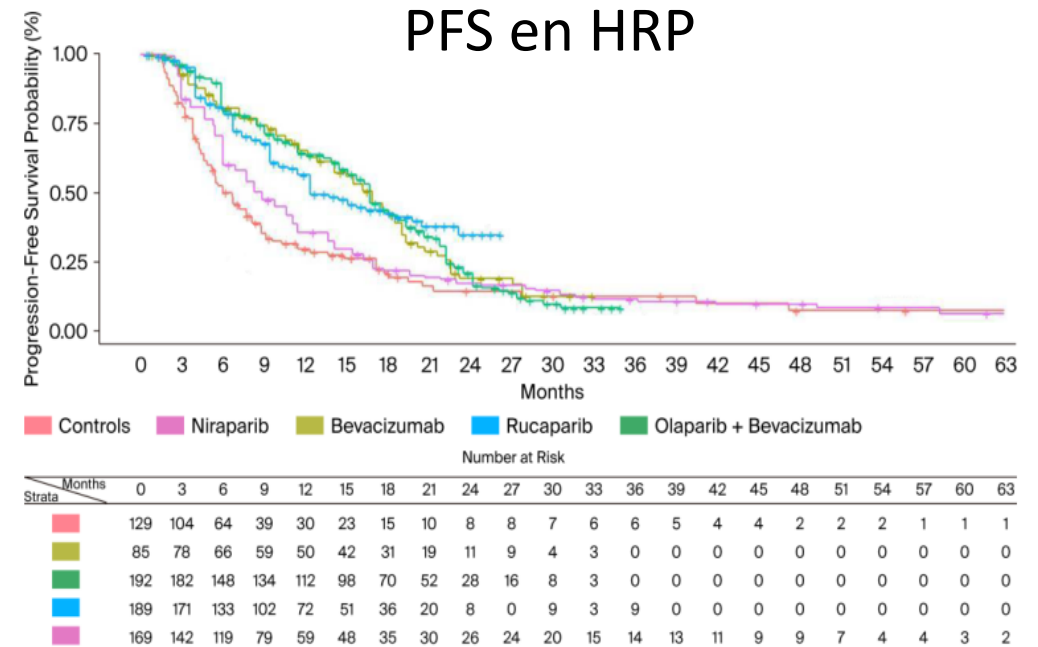
Comparative Analysis of Maintenance Treatments in Patients with Newly Diagnosed Advanced Ovarian Cancer After First-Line Platinum-Based Regimens

Lorenzo Gasperoni¹, Luca Cancanelli^{2,3}, Andrea Ossato^{3,4}, Luna Del Bono⁵, Stefano Vecchia⁶, Caterina Fontanella⁷, Vera Damuzzo^{2,3} and Andrea Messori^{8,9,*}

Comparación indirecta a partir de los resultados obtenidos en los estudios **(SOLO1, PRIMA, PAOLA1, ATHENA, FLAMES)**.
Objetivo primario PFS

Dos conclusiones principales en HRP:

- La adicción de Olaparib a Beva no aporta beneficio respecto a Beva en monoterapia.
- NO diferencias significativas en PFS entre iPARP y BEVA



CAMBIO EN LOS PATRONES DE RECAÍDA

ESTUDIO RWE Italia

Patterns of disease distribution and treatment at recurrence



373
PATIENTS

Treated with **1L PARPi monotherapy maintenance**



167
PATIENTS

Experienced a recurrence at the DCO with a median follow-up of 38 months

44.9%

Experienced relapse with **<5 lesions** visualized on [18F]-FDG-PET-CT.

41.2%

Received **local treatment**

- 28 SCS
- 18 SBRT

53.7%

Continued **PARPi treatment**

- Median duration of extended PARPi administration was **~7 months** (95% CI 3.7-10.3 months)
- No significant difference were seen between radiotherapy and surgery groups.

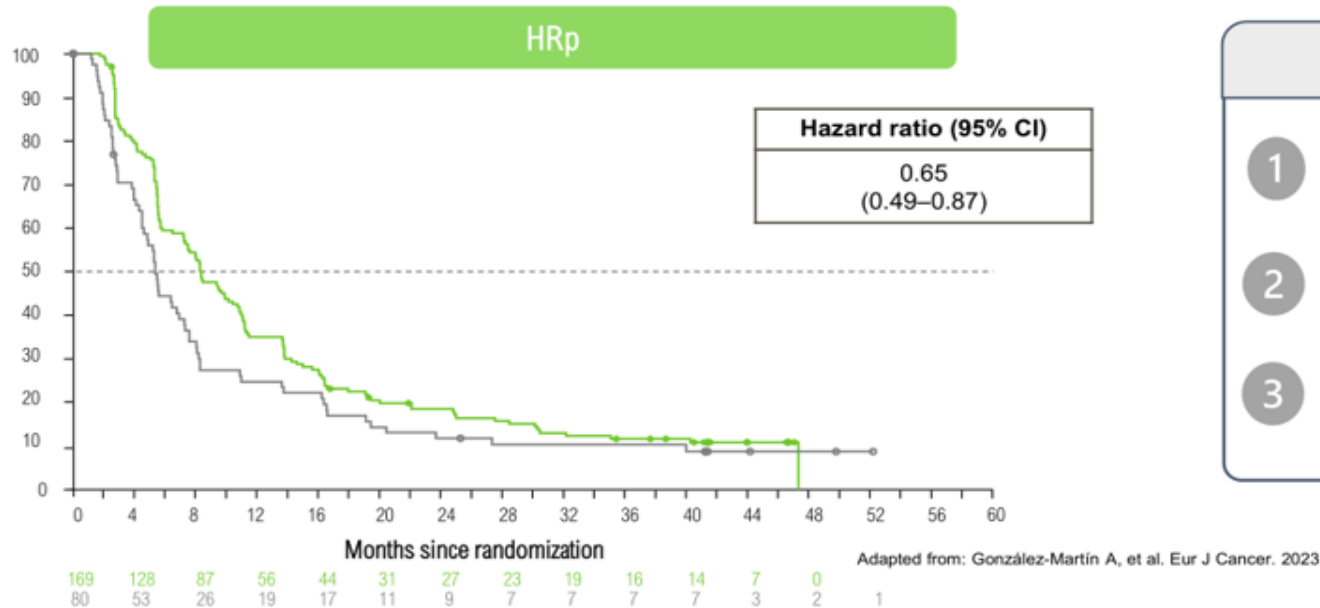
Oportunidad para **tratamientos LOCALES** (cirugía vs SBRT), aumentar la supervivencia y alargar la terapia de mantenimiento con iPARP.

ESTUDIO PRIMA

	Overall (n=190)	Biomarker status				Disease stage at diagnosis		Type of cytoreductive surgery	
		BRCAm (n=44)	BRCAct (n=138)	HRd (n=77)	HRp (n=80)	III (n=119)	IV (n=71)	Primary (n=59)	Interval (n=131)
Median number of new lesions, n (IQR)	1.0 (1.0-2.0)	1.0 (1.0-2.0)	1.0 (1.0-2.0)	1.0 (1.0-2.0)	2.0 (1.0-2.5)	2.0 (1.0-2.0)	1.0 (1.0-2.0)	2.0 (1.0-2.0)	1.0 (1.0-2.0)
Number of new lesions, n (%)									
1	96 (50.5)	23 (52.3)	70 (50.7)	40 (51.9)	38 (47.5)	54 (45.4)	42 (59.2)	27 (45.8)	69 (52.7)
2	53 (27.9)	12 (27.3)	37 (26.8)	20 (26.0)	22 (27.5)	37 (31.1)	16 (22.5)	18 (30.5)	35 (26.7)
3	28 (14.7)	5 (11.4)	22 (15.9)	10 (13.0)	16 (20.0)	17 (14.3)	11 (15.5)	8 (13.6)	20 (15.3)
4	9 (4.7)	1 (2.3)	8 (5.8)	4 (5.2)	3 (3.8)	7 (5.9)	2 (2.8)	2 (3.4)	7 (5.3)
5	3 (1.6)	2 (4.5)	1 (0.7)	2 (2.6)	1 (1.3)	3 (2.5)	0	3 (5.1)	0
>5	1 (0.5)	1 (2.3)	0	1 (1.3)	0	1 (0.8)	0	1 (1.7)	0
Location of new lesions, n (%)									
Peritoneum	57 (30.0)	9 (20.5)	48 (34.8)	19 (24.7)	31 (38.8)	35 (29.4)	22 (31.0)	20 (33.9)	37 (28.2)
Lymph nodes	50 (26.3)	11 (25.0)	39 (28.3)	24 (31.2)	20 (25.0)	31 (26.1)	19 (26.8)	20 (33.9)	30 (22.9)
Liver	39 (20.5)	8 (18.2)	28 (20.3)	10 (13.0)	22 (27.5)	27 (22.7)	12 (16.9)	11 (18.6)	28 (21.4)
Other ^a	35 (18.4)	11 (25.0)	21 (15.2)	16 (20.8)	12 (15.0)	23 (19.3)	12 (16.9)	8 (13.6)	27 (20.6)
Pelvis	25 (13.2)	5 (11.4)	18 (13.0)	9 (11.7)	14 (17.5)	19 (16.0)	6 (8.5)	7 (11.9)	18 (13.7)

La mayoría de las pacientes (**93%**) tenía entre **1-3 lesiones** en la primera recaída, con un 50% de las pacientes con 1 única lesión

¿El NO recibir un iPARP en primera línea en la enfermedad HRP una pérdida de oportunidad?



Why move PARPi to 1L?

- 1 The first line may be the only opportunity patients have to receive a PARPi.²
- 2 First-line treatment can prolong the platinum-free interval and increase the likelihood of cure.^{3,4}
- 3 **Safety:** The incidence of MDS/AML with PARPi was described as <2.4% in first-line clinical trials and 1.7-8.0% in relapsed clinical trials.^{4,5-9}

Approximately **42% of patients** will never benefit from PARPi activity if they miss their opportunity in the first line. The risk of missing the PARPi benefit in the treatment algorithm is **even higher** in the subgroup of BRCAwt/HRD and **HRP** patients.²

These prespecified subgroup analyses were not sufficiently powered to detect a statistically significant treatment effect; therefore, the results should be interpreted with caution.*Those relapses that occurred during the first 6 months after completion of the last cycle of platinum-based chemotherapy were considered platinum-resistant. Platinum-resistant patients could not receive PARPi-based therapy. **From the placebo arm.

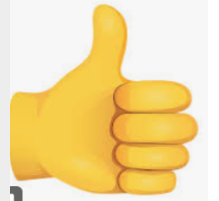
1. Banerjee SN, Lord CJ. First-line PARP inhibition in ovarian cancer – standard of care for all? Nat Rev Clin Oncol. 2020;17(3):136-7. 2. Caruso G, Tomao F, Parma G, et al. Poly (ADP-ribose) polymerase inhibitors (PARPi) in ovarian cancer: lessons learned and future directions. Int J Gynecol Cancer. 2023;33(4):431-43. 3. Gupta S, Nag S, Aggarwal S, et al. Maintenance therapy for recurrent epithelial ovarian cancer: current therapies and future perspectives – a review. J Ovarian Res. 2019;12:103. 4. González-Martín A, Pothuri B, Vergote I, et al. Progression-free survival and safety at 3.5 years of follow-up: results from the randomised phase 3 PRIMA/ENGOT-OV26/GOG-3012 trial of niraparib maintenance treatment in patients with newly diagnosed ovarian cancer. Eur J Cancer. 2023;189:112908. 5. González-Martín A, Pothuri B, Vergote I, et al. Niraparib in Patients with Newly Diagnosed Advanced Ovarian Cancer. N Engl J Med. 2019;381(25):2391-402. 6. Moore K, Colombo N, Scambia G, et al. Maintenance Olaparib in Patients with Newly Diagnosed Advanced Ovarian Cancer. N Engl J Med. 2018;379(26):2495-505. 7. Monk BJ, Lorusso D, Fujiwara K, et al. A Randomized, Phase III Trial to Evaluate Rucaparib Monotherapy as Maintenance Treatment in Patients With Newly Diagnosed Ovarian Cancer (ATHENA-MONO/GOG-3020/ENGOT-ov45). J Clin Oncol. 2022;40(34):3952-64. 8. Del Campo JM, Birrer M, Fujiwara K, et al. Niraparib Maintenance Therapy in Patients With Recurrent Ovarian Cancer After a Partial Response to the Last Platinum-Based Combination in the ENGOT-OV16/NOVA Trial. J Clin Oncol. 2019;37(32):2968-73. 9. Poveda A, Floquet A, Ledermann JA, et al. Olaparib tablets as maintenance therapy in patients with platinum-sensitive relapsed ovarian cancer and a BRCA1/2 mutation (SOLO2/ENGOT-Ov21): a final analysis of a double-blind, randomised, placebo-controlled, phase 3 trial. Lancet Oncol. 2021;22(5):620-31.

A FAVOR BEVACIZUMAB

- Beneficio en PFS
- No beneficio en OS salvo pacientes alto riesgo
- Kelim desfavorable y alto riesgo
- Comparaciones indirectas entre estudios

A FAVOR iPARP

- Beneficio en PFS
- No beneficio en OS
- PFS2 positiva para Rucaparib (no para Niraparib)
- Limitaciones del test HRD
- Kelim favorable
- Comparaciones indirectas entre estudios
- Cambio en el patrón de recidivas
- Pérdida de oportunidad



DESEMPATE

Ongoing trials will allow a direct comparison of 1L PARPi with and without bevacizumab

NIRVANA-1⁵

Niraparib ± bevacizumab as maintenance after complete cytoreduction

AGO-OVAR 28⁶

Niraparib vs niraparib + bevacizumab as maintenance after platinum + bevacizumab

MITO25⁷

Chemotherapy ± bevacizumab followed by rucaparib maintenance ± bevacizumab or bevacizumab alone

¿QUÉ DEBEMOS TENER EN CUENTA AL ELEGIR UN TRATAMIENTO?

Dependientes del tratamiento

- ✓ Eficacia/beneficio clínico
- ✓ Efectos adversos
- ✓ Propiedades farmacológicas
- ✓ Vía de administración
- ✓ Posología/periodicidad
- ✓ Precio

Dependientes del paciente

- ✓ Comorbilidades/medicación
- ✓ Interacciones farmacológicas
- ✓ ECOG
- ✓ Preferencias
- ✓ Situación personal
- ✓ Toxicidad residual
- ✓ Síntomas 2º a la enfermedad
- ✓ Biomarcadores***

Dependientes del sistema

- ✓ Agencias reguladoras
- ✓ CCAA
- ✓ Seguro médico
- ✓ Farmacia
- ✓ Infraestructura
- ✓ Precio

Table 1:

Absorption, distribution, metabolism, and excretion of poly (ADP-ribose) polymerase (PARP) inhibitors

	Enzymes used for metabolism	Effect of PARP inhibitors on other drugs	Effect of other drugs on PARP inhibitors	Effect on renal and hepatic uptake transporters	Pharmacokinetics	Effect with food
Rucaparib ^{14,27,28}	Is metabolised predominantly by CYP2D6, and by CYP1A2 and CYP3A4 to a lesser extent	Reversibly inhibits CYP1A2, CYP2C19, CYP2C9, and CYP3A; increased area under the curve (ie, total drug exposure overtime) of caffeine, midazolam, warfarin, omeprazole, and digoxin ^{*9}	No known clinically significant effect	Inhibits MATE1 and MATE2-K (potent effect), and OCT1 (moderate effect)	Mean half-life=17 h; median time to maximal concentration=1.9 h	Coadministration of a high-fat meal delayed Tmax by 2.5 h and increased area under the curve by 38%, although between-subject variability of the area under the curve and maximum concentration were the same in high-fat intake and fasting groups
Olaparib ³⁰⁻³²	Is metabolised primarily by CYP3A4	Induces CYP2B6 and inhibits CYP3A ^{†31}	CYP3A inhibitors increased area under the curve (ie, total drug exposure overtime) in 170% (strong effect) or 121% (moderate effect); CYP3A inducers decreased area under the curve in 87% (strong effect) or 60% (moderate effect)	Inhibits OATP1B1, OCT1, OCT2, OAT3, MATE1, and MATE2-K	Mean half-life=14.9 h (tablet) or 11.9 hours (capsule); median time to maximal concentration=1.5 h	Coadministration of a high-fat meal delayed Tmax by 2.5 h but did not alter the extent of olaparib absorption
Niraparib ^{24,33, 34}	Is metabolised by carboxylesterase-catalysed amide hydrolysis (primarily hepatic metabolism)	Has negligible effect on CYP450 enzymest ^{†33}	No formal drug interaction studies have been performed with niraparib	No known interaction with the major hepatic or renal transporters	Mean half-life=~36 h; median time to maximal concentration=3 h	Coadministration of a high-fat meal did not affect the pharmacokinetics

* Data from clinical studies.

4ª Jornada de Actualización en Cáncer Ginecológico

Bilbao · 20 – 21 de mayo 2026

	PRIMA Niraparib (n:484)	SOLO 1 Olaparib (n:260)	ATHENA-MONO Rucaparib (n: 427)
Any TEAE, n(%)	99	99	97
Grade≥3 TEAE	73	40	61
Any serious TEAE	27	21	NR
TEAE leading to PARPi treatment discontinuacion	14	12	12
TEAE leading to dose reduction	71	29	49
TEAE leading to treatment interruption	80	53	61

There are no completed direct head-to-head trials of these products. These data are from different clinical trials, and since there are inherent limitations in cross-study comparisons, caution should be exercised in interpreting these data. These data are for information purposes only and are not intended to imply or infer the noninferiority or superiority of either product, in terms of efficacy or safety.

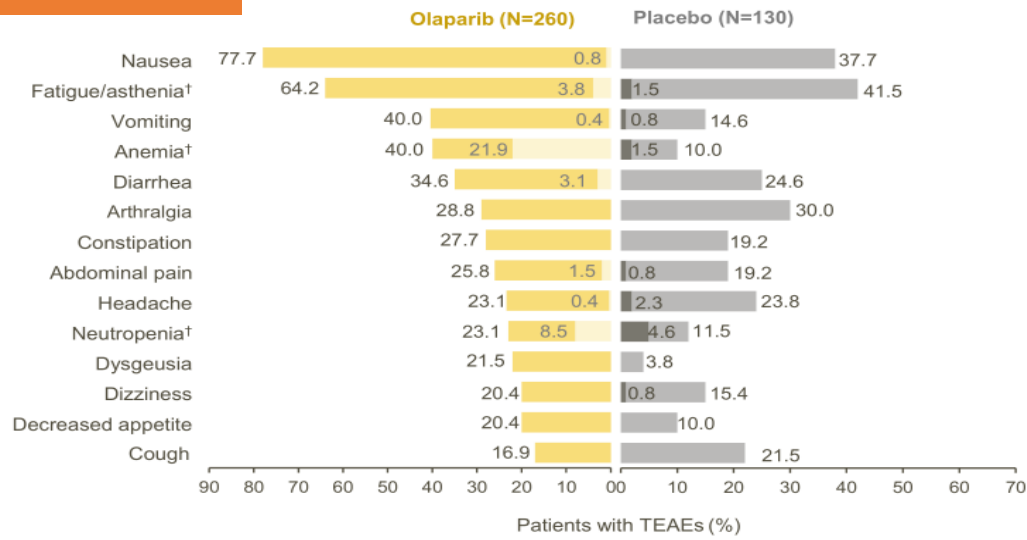
4ª Jornada de Actualización en Cáncer Ginecológico

Bilbao · 20 – 21 de mayo 2026

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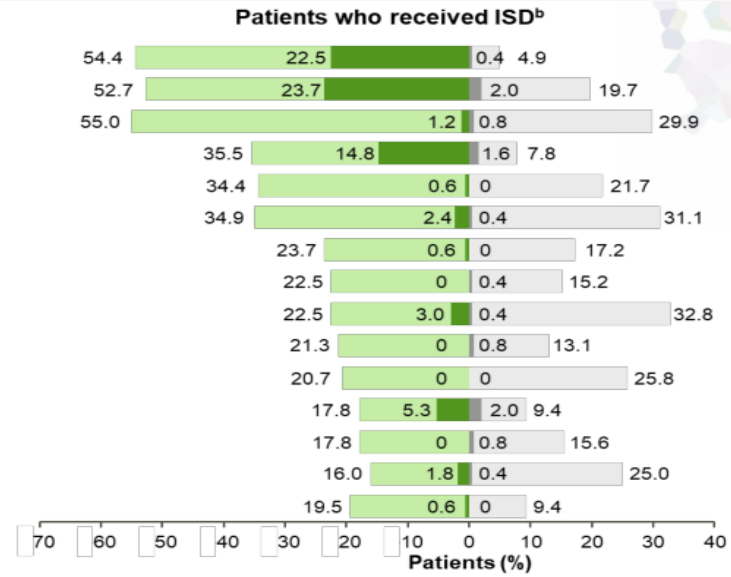
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SOLO 1



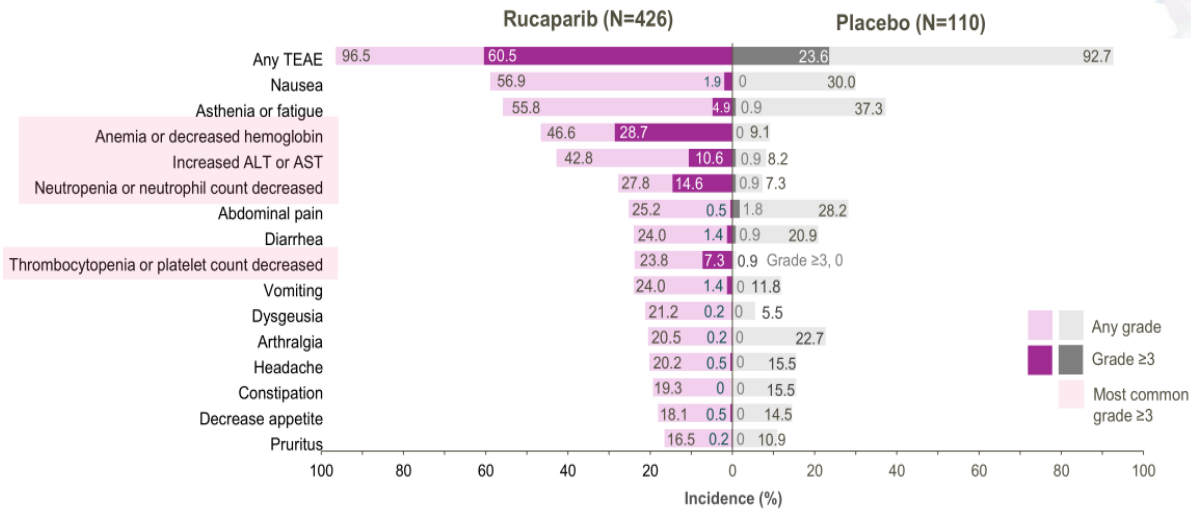
Thrombocytopenia^c

- Anemia^d
- Nausea
- Neutropenia^e
- Constipation
- Fatigue
- Headache
- Insomnia
- Abdominal pain
- Vomiting
- Arthralgia
- Hypertension^f
- Dyspnea
- Diarrhea
- Decreased appetite




PRIMA ISD

ATHENA-MONO



	OLAPARIB	NIRAPARIB IDS	RUCAPARIB
Anemia, %	40	52	46
Neutropenia,%	23	35	27.8
Trombopenia,%	11	54	23.8
N/V%	78/40	55/21	57/23.5
Diarrhea,%	34.6	16	24
Estreñimiento, %	27.7	34	19
Fatiga,%	64	34.9	55.8
HTA,%		18	
↑AST/ALT,%			42

Haematologic toxicities with PARP inhibitors in cancer patients: an up-to-date meta-analysis of 29 randomized controlled trials

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²College of Pharmacy, Southwest Minzu University, Sichuan, P.R.China

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Funding information

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Abstract

What is known and objectives: Haematologic toxicities emerged as one of the most common adverse events in cancer patients treated with PARP inhibitors in randomized controlled trials. We conducted a meta-analysis of 29 randomized controlled trials to evaluate the haematologic toxicities in cancer patients treated with PARP inhibitors.

Study design: PubMed till September 2020. Trials were included if they reported haematologic toxicity in patients treated with PARP inhibitors. Results: Twenty-nine randomized controlled trials were included in the meta-analysis. The risk of developing all-grade anaemia (RR, 2.33; 95% CI, 1.38–2.07; $p < 0.00001$). The use of PARP inhibitors was associated with an increased risk of developing all-grade anaemia (RR, 3.03; 95% CI, 1.33–2.07; $p < 0.00001$). Anaemia was associated with PARP inhibitors. Combination treatment with PARP inhibitors and chemotherapy was associated with a higher risk of developing all-grade anaemia.

KEYWORDS
cancer, haematologic toxicity

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Author manuscript
Lancet Oncol. Author manuscript; available from PMC.

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Exploring and comparing adverse events with PARP inhibitors

Christopher J LaFargue¹, Graziela Z Dal Molin², Department of Gynecologic Oncology and Reproductive Medicine, Prof A K Sood MD, Prof R L Coleman MD, Prof A K Sood MD, Prof R L Coleman MD, and Center for RNA Interference and Non-coding RNA, Texas MD Anderson Cancer Center, Houston, TX

Abstract

Ovarian cancer remains one of the most challenging as poly (ADP-ribose) polymerase (PARP) inhibitors are used for ovarian cancer, particularly in women without a functional homologous recombination characteristic of PARP inhibitors is their mechanism of action, PARP inhibitors are not completely being health-care providers might assume a low toxicity profile. Further complicating this situation, three of the US Food and Drug Administration since 2011 individual toxicity profiles. The diversity of adverse events underscores the importance of having a clear decision making when treating patients. This review associated with each PARP inhibitor, both in monotherapy and combination with chemotherapy. Although the excitement surrounding PARP inhibitors, understanding of all associated toxicities is imperative for clinical benefit.

Drug Design, Development and Therapy

Open Access Full Text Article

Risk of selected gastrointestinal toxicities associated with poly (ADP-ribose) (PARP) inhibitors in the treatment of ovarian cancer: a meta-analysis of published randomized controlled trials

This article was published in the following Dove Press journal
Drug Design, Development and Therapy

Yongping Liu
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Aims: We aimed to comprehensively assess the risk of selected gastrointestinal toxicities in patients treated with poly (ADP-ribose) polymerase inhibitors.

Materials and methods: We searched several databases for randomized controlled trials of olaparib, veliparib, niraparib and rucaparib, de novo and constipation. Summary incidence, relative risk of fixed- or random-effects models.

Results: A total of 2,286 ovarian cancer patients results showed that summary incidences of all-grade patients were nausea 68.8% (95% CI, 63.5%–73.6%), diarrhoea 25.3% (95% CI, 21.2%–29.8%), and constipation 20.1% (95% CI, 17.5%–22.8%), and constipation 20.1% (95% CI, 17.5%–22.8%), respectively. While, the RRs of high-grade nausea, vomiting, diarrhoea, and constipation were 3.74 (95% CI: 1.50–9.36; $P=0.005$), 2.81 (95% CI: 1.17–6.74; $P=0.02$), 0.56 (95% CI: 0.22–1.43; $P=0.23$), 0.92 (95% CI: 0.34–2.49; $P=0.87$); respectively.

Conclusion: Our study suggests that the risk of all-grade gastrointestinal toxicities associated with PARPis, excepting constipation, is significantly increased in ovarian cancer patients. And the use of PARPis significantly increased the risk of developing high-grade nausea and vomiting, but not for diarrhoea and constipation. Close clinical monitoring is recommended when administering these drugs.

Keywords: poly (ADP-ribose) polymerase inhibitors, gastrointestinal toxicities, clinical trials, meta-analysis, targeted agents, gynaecological tumors, systematic review



Hematological toxicity of parp inhibitors in solid tumors: a systematic review and safety meta-analysis

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Abstract

Poly (ADP-ribose) polymerase (PARP) inhibitors (PARPis) are effective agents in different tumor types. A typical class of adverse events (AEs) associated with these agents, often leading to treatment discontinuation, is hematological toxicity. In our systematic review and meta-analysis, we evaluated the risk of developing all-grade and ≥G3 AEs of PARP Anemia was the most common all-grade (49.2%) and ≥G3 AE (2.1%) of developing all grades of anemia (RR = 2.15, $p < 0.0001$), neutropenia (RR = 1.70, $p = 0.002$), and thrombocytopenia (RR = 2.59, $p < 0.00001$) compared to non-PARPis. PARPis did not increase the risk of AML/MDS ($p = 0.86$). PARPis other treatments in solid tumors. Clinicians should be aware of the risk in the next year in different tumor types.

Keywords: PARP inhibitors · Hematological toxicity · Solid tumor · MCRPC · Ovarian cancer · Breast cancer · Prostate cancer

Giandomenico Roviello and Andrea Necchi share the last authorship.

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Systematic Review

Comparative Analysis of Maintenance Treatments in Patients with Newly Diagnosed Advanced Ovarian Cancer After First-Line Platinum-Based Regimens

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Simple Summary

Poly (ADP-ribose) polymerase inhibitors (PARPi) are standard first-line maintenance therapy in advanced ovarian cancer, but their benefit is strongly influenced by BRCA status and homologous recombination deficiency (HRD), and no direct head-to-head trials exist. We performed an indirect comparison using reconstructed individual patient data from Kaplan-Meier curves of phase III studies (SOLO1, PRIMA, PAOLA1, ATHENA, FLAMES). The primary endpoint was progression-free survival (PFS), while overall survival (OS) was exploratory. Subgroups were BRCA-mutated (BRCA+), BRCA-/HRD+, and BRCA-/HRD-. Safety was assessed through a network meta-analysis of adverse events. In BRCA+ patients, the largest PFS benefit was observed with olaparib plus bevacizumab, followed by olaparib monotherapy, while niraparib performed worse. In BRCA-/HRD+ disease, olaparib plus bevacizumab outperformed niraparib and rucaparib, with restricted mean survival time gains of 3–4 months. In BRCA-/HRD- patients, PARPi yielded only modest benefits, showing no advantage over bevacizumab alone. Exploratory OS analysis confirmed durable survival with olaparib in BRCA+ but not in other subgroups. Regarding safety, olaparib demonstrated the most favorable hematologic profile, whereas niraparib was linked to higher rates of severe anemia, thrombocytopenia, and neutropenia, although it showed lower gastrointestinal toxicity and fatigue. In conclusion, PARPi efficacy is highly dependent on BRCA and HRD status: olaparib-based regimens provide the greatest clinical advantage with manageable safety in BRCA+ and HRD+ disease, while their value in HRD-negative ovarian cancer remains limited.



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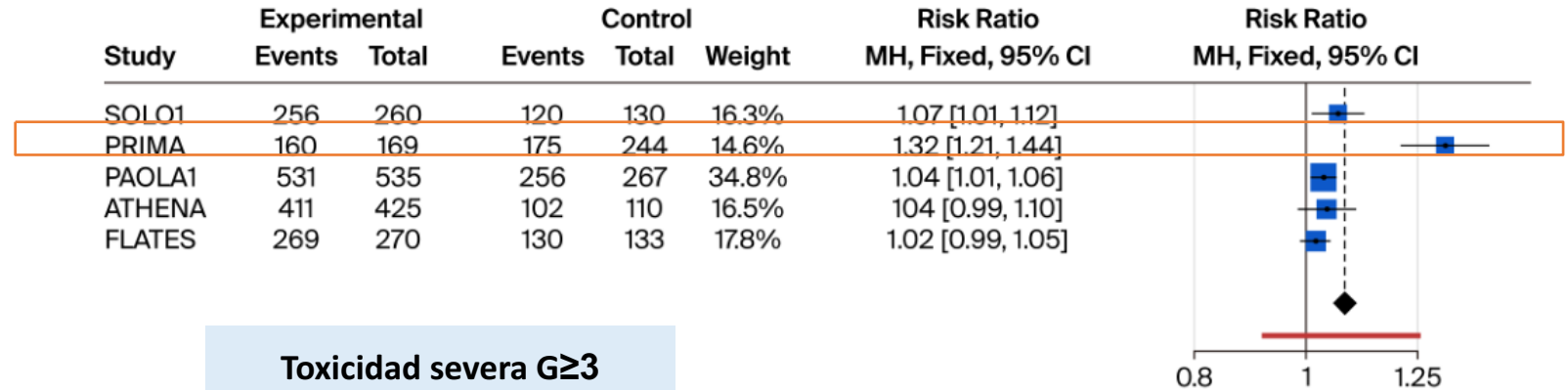
Citation: Gasperoni, L.; Cancianelli, L.; Ossato, A.; Del Bono, L.; Vecchia, S.; Fontanella, C.; Damuzzo, V.; Messori, A. Comparative Analysis of Maintenance Treatments in Patients with Newly Diagnosed Advanced Ovarian Cancer After First-Line Platinum-Based Regimens. *Cancers* 2025, 17, 3714. <https://doi.org/10.3390/cancers17223714>



Comparación indirecta de los resultados obtenidos en los estudios fase III **SOLO1, PRIMA, PAOLA1, ATHENA, FLAMES**.

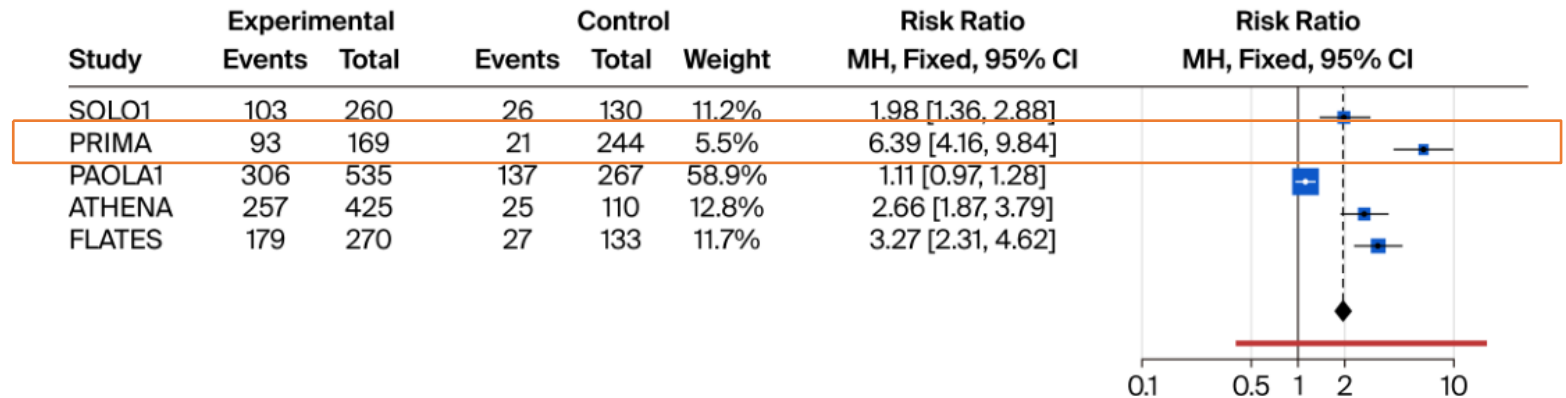
Toxicidad cualquier grado

(A)



Toxicidad severa G≥3

(B)

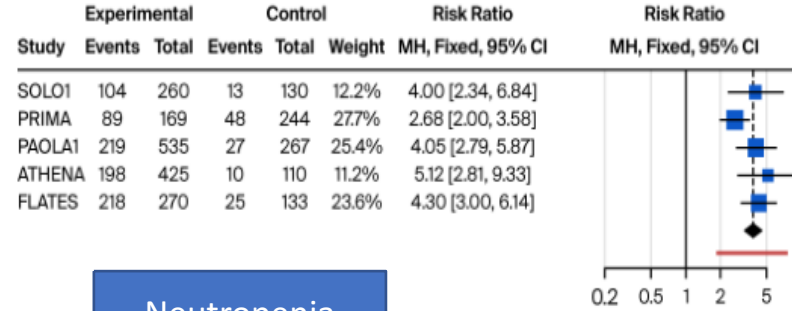


Perfil de seguridad menos favorable para Niraparib. Con mayor toxicidad G≥3

- Las toxicidades hematológicas son las más frecuentes (anemia y trombocitopenia)
- Olaparib demostró un perfil de toxicidad hematológica más favorable (neutropenia y trombopenia) que Nira y Ruca.

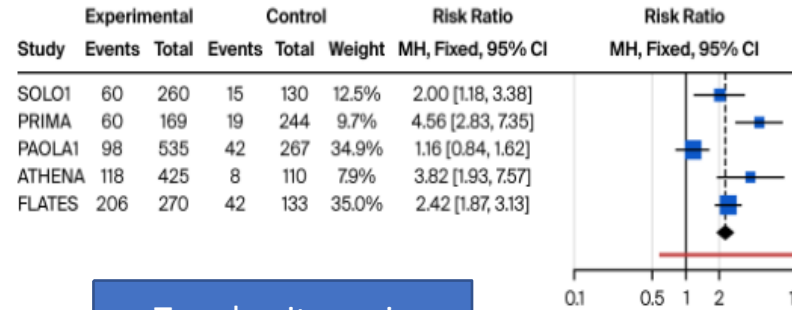
Anemia

(A)



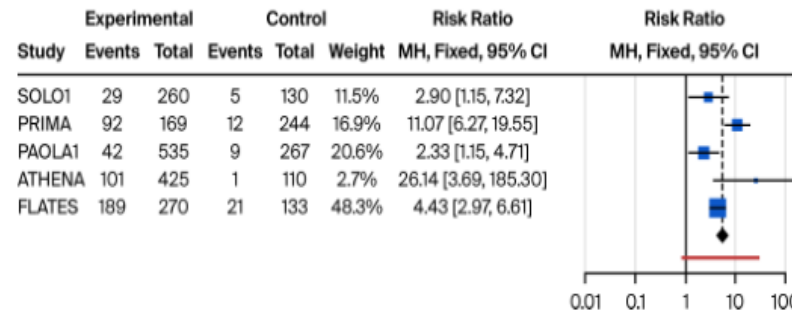
Neutropenia

(C)

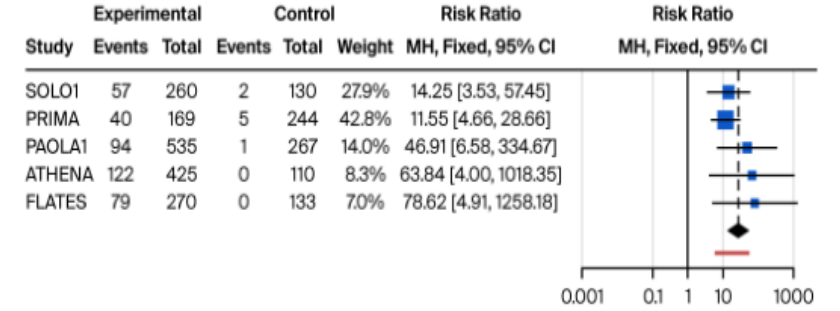


Trombocitopenia

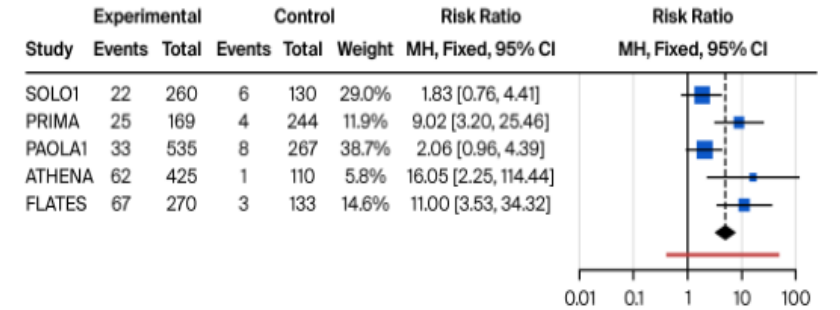
(E)



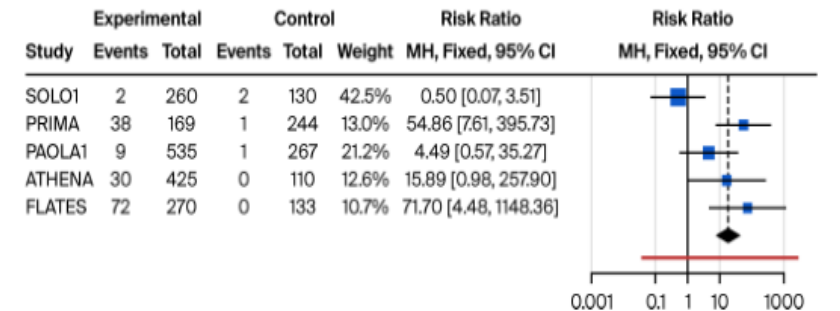
(B)



(D)



(F)



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- Toxicidad GI es menos frecuente que la hematológica.
- Niraparib demostró un perfil más favorable para la toxicidad digestiva y la fatiga/astenia respecto a Ola y Ruca.

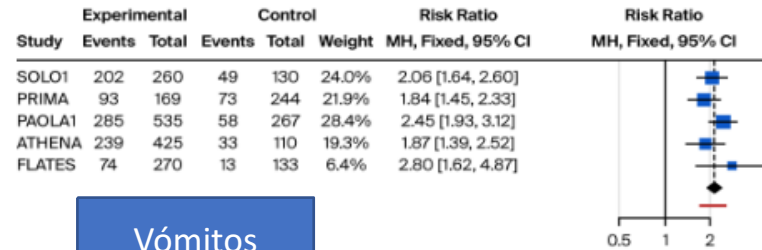
Diarrea

(A)



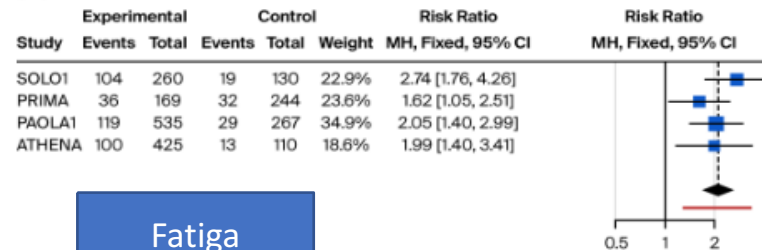
Náuseas

(C)



Vómitos

(E)

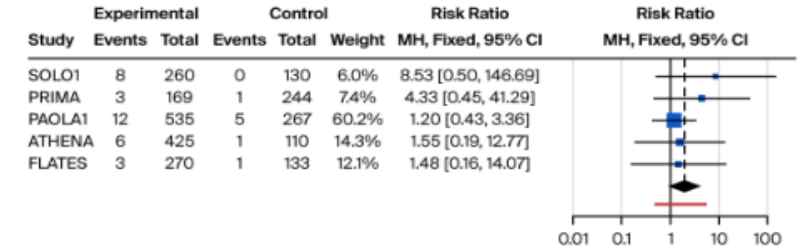


Fatiga

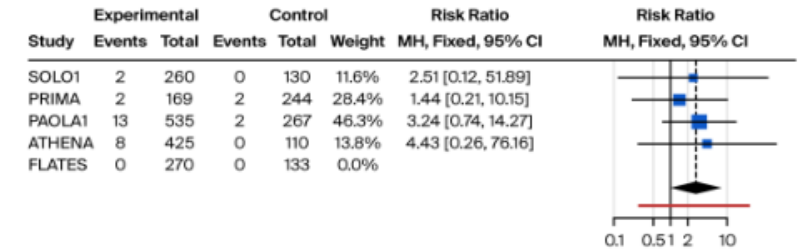
(G)



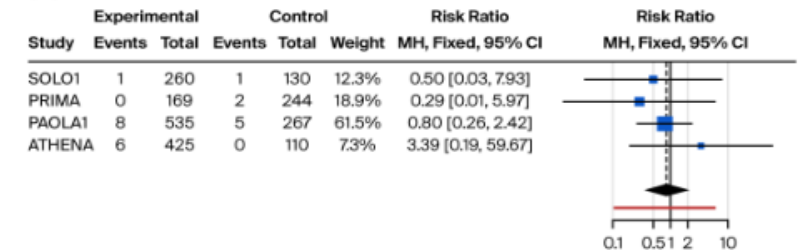
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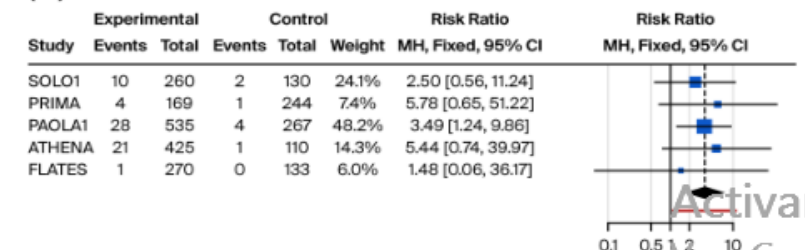
(D)



(F)



(H)



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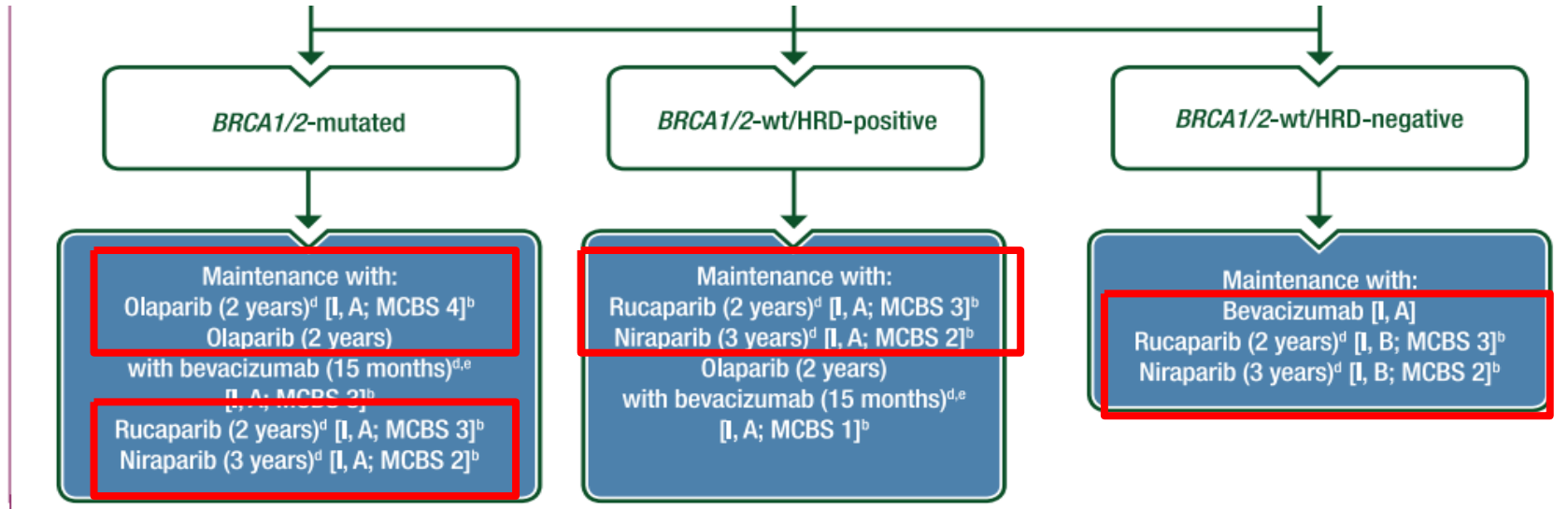


Figure 1. Management of advanced EOC (FIGO stage III-IV).

Purple: algorithm title; orange: surgery; blue: systemic anticancer therapy or their combination; turquoise: nonsystemic anticancer therapies or combination of treatment modalities; white: other aspects of management and non-treatment aspects.

AUC, area under the curve; ChT, chemotherapy; EMA, European Medicines Agency; EOC, epithelial ovarian cancer; ESCAT, ESMO Scale for Clinical Actionability of molecular Targets; FDA, Food and Drug Administration; FIGO, International Federation of Gynecology and Obstetrics; HRD, homologous recombination deficiency; MCBS, ESMO-Magnitude of Clinical Benefit Scale; PARPi, poly (ADP-ribose) polymerase inhibitor; wt, wild type.

^aESCAT scores apply to alterations from genomic-driven analyses only. These scores have been defined by the guideline authors, assisted if needed by the ESMO Precision Medicine Working Group.⁷

^bESMO-MCBS v2.0³ was used to calculate scores for new therapies/indications approved by the EMA or FDA. The scores have been calculated by the ESMO-MCBS Working Group and validated by the ESMO Guidelines Committee (<https://www.esmo.org/guidelines/esmo-mcbs/esmo-mcbs-evaluation-forms>).

^cWeekly ChT with paclitaxel (60 mg/m²)—carboplatin (AUC 2) can be an alternative in frail patients [I, B].

^dOnly when patients have complete or partial response to platinum or no evidence of disease. For patients without response to platinum, a PARPi is not indicated; these patients can be managed with bevacizumab maintenance if appropriate (mainly stable disease), or with second-line therapy if they have progressive disease (see Figure 3 in the original Clinical Practice Guideline¹).

^eOption for patients for whom bevacizumab was added to paclitaxel—carboplatin.

Mantenimiento con iPARP: ¿Cuándo y cuál?

BRCAm: SI

HRD/BRCAt: SI

HRP: pacientes seleccionadas

- Tenemos 3 iPARP disponibles como 1L de mantenimiento en COA.
- Todos ellos han demostrado eficacia pero con diferente perfil de toxicidad.
- A la hora de seleccionar un tratamiento u otro hemos de tener en cuenta factores individualizados de cada paciente.
- Es muy importante tener en cuenta las comorbilidades, las posibles interacciones con los tratamientos concomitantes y la toxicidad residual post-quimioterapia.
- Necesitamos biomarcadores que nos ayuden a seleccionar qué pacientes se van a beneficiar más del tratamiento.

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GRACIAS

