

Is There a Need for the Real-World Evidence Studies

Mansoor Raza Mirza

Declaration of Interests

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Personal:

Chief Oncologist Dept. of Oncology, Rigshospitalet, Copenhagen University Hospital, Denmark.

Medical Director NSGO-CTU (Nordic Society of Gynaecological Oncology)

Chairman₂₀₂₀₋₂₀₂₂ ENGOT (European Network of Gynaecological Oncology Trials group)

Vice-President₂₀₂₀₋₂₀₂₄ ESGO (European Society of Gynaecological Oncology)

Faculty ESMO (European Society of Medical Oncology)

Scientific Chair IGCS Congress 2024

Congress Chair ESGO Congress 2026

Prix Galien Foundation Jury member

Advisory board: AbbVie, Allarity Therapeutics, Astra Zeneca, Biocad, Biontech, Daiichi-Sankyo, Eisai, Genmab, GSK, Immunogen, Incyte, Karyopharm, Merck/MSD, Mersana, Regeneron, Takeda, Zailab

Member of board of directors, stocks/shares: Karyopharm Therapeutics, Sera Prognostics

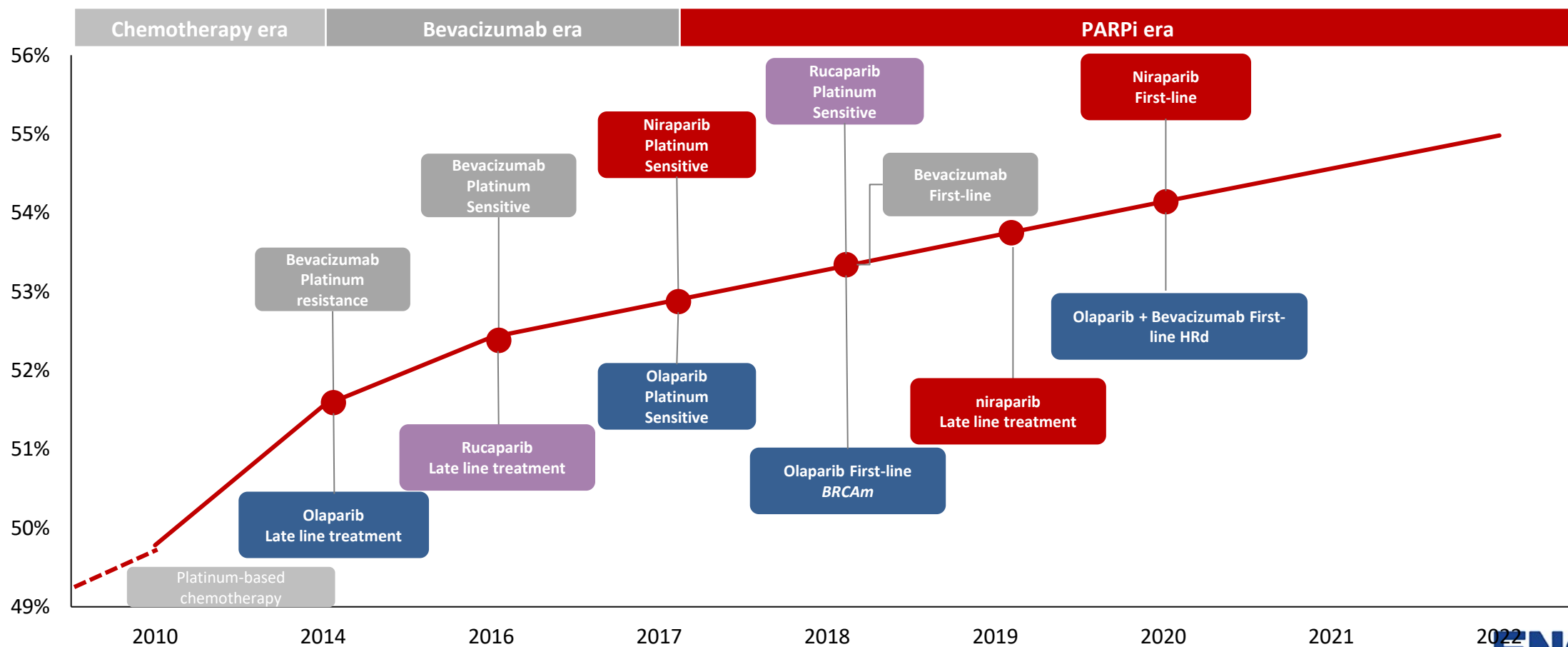
Institutional (no personal financial interest)

Research grant: Allarity, Apexigen, Astra Zeneca, Boehringer Ingelheim, Clovis, GSK, Novartis, Tesaro, Ultimovacs

Trial chair: AstraZeneca, Boehringer Ingelheim, Deciphera, Daiichi-sankyo, GSK, Merck, Mersana, NuvationBio, Tesaro

The 5-Year Overall Survival Rate of Ovarian Cancer is Increasing Annually

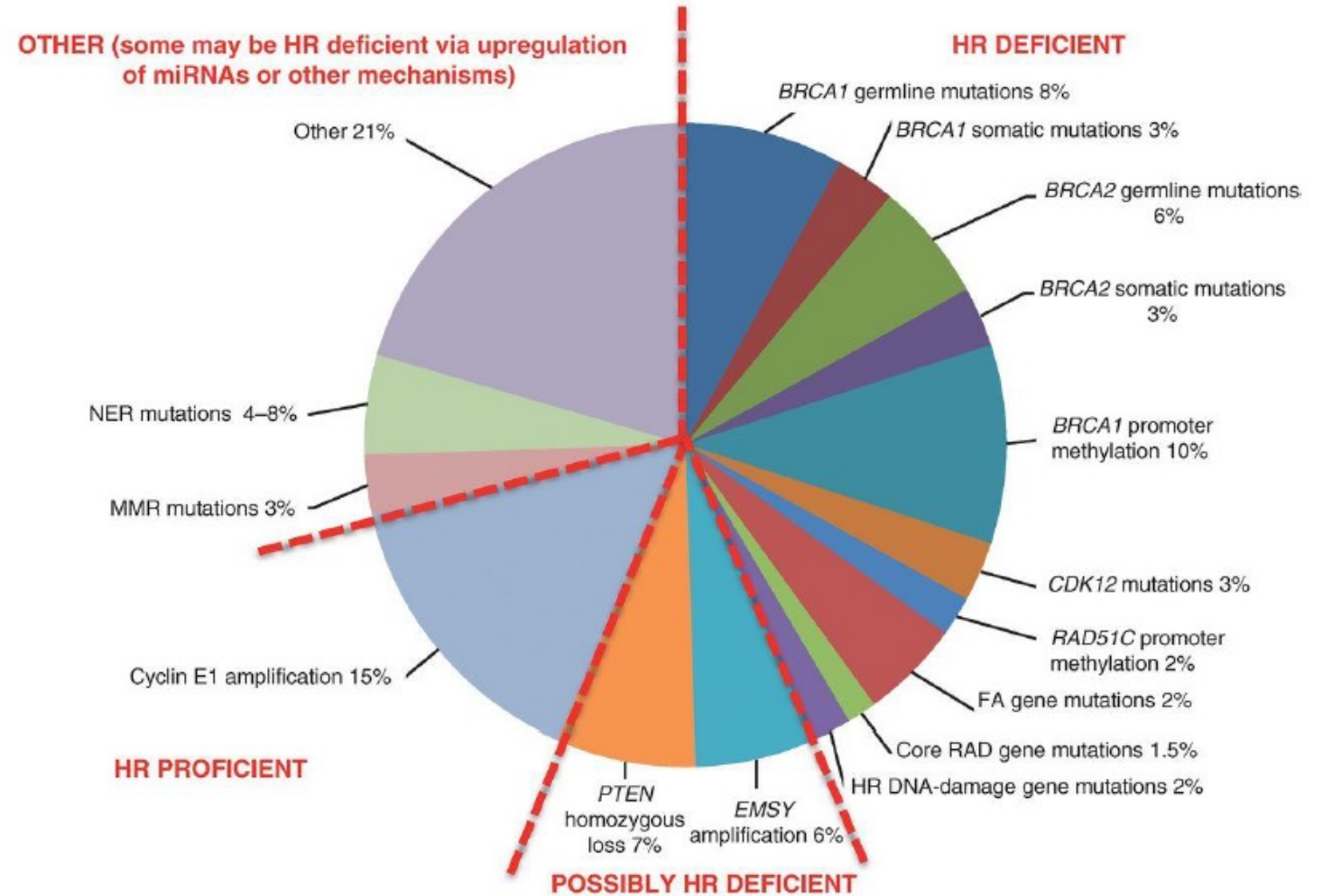
5-year overall survival rate of ovarian cancer (SEER database *)



* Data cut-off: 2022

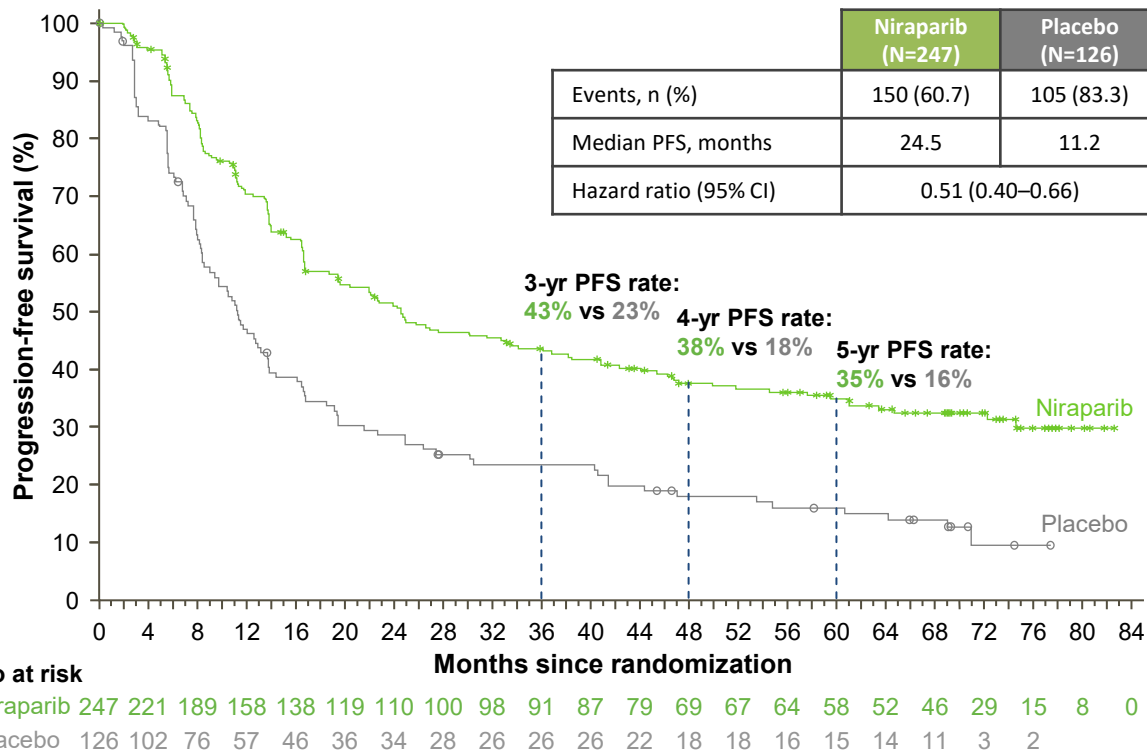
Homologous Recombination Defects in High-Grade Serous Ovarian Cancer

- Ovarian Cancer is a genetically heterogeneous disease
- *BRCA1/2* deleterious mutations or chromosomal damage result in similar biology

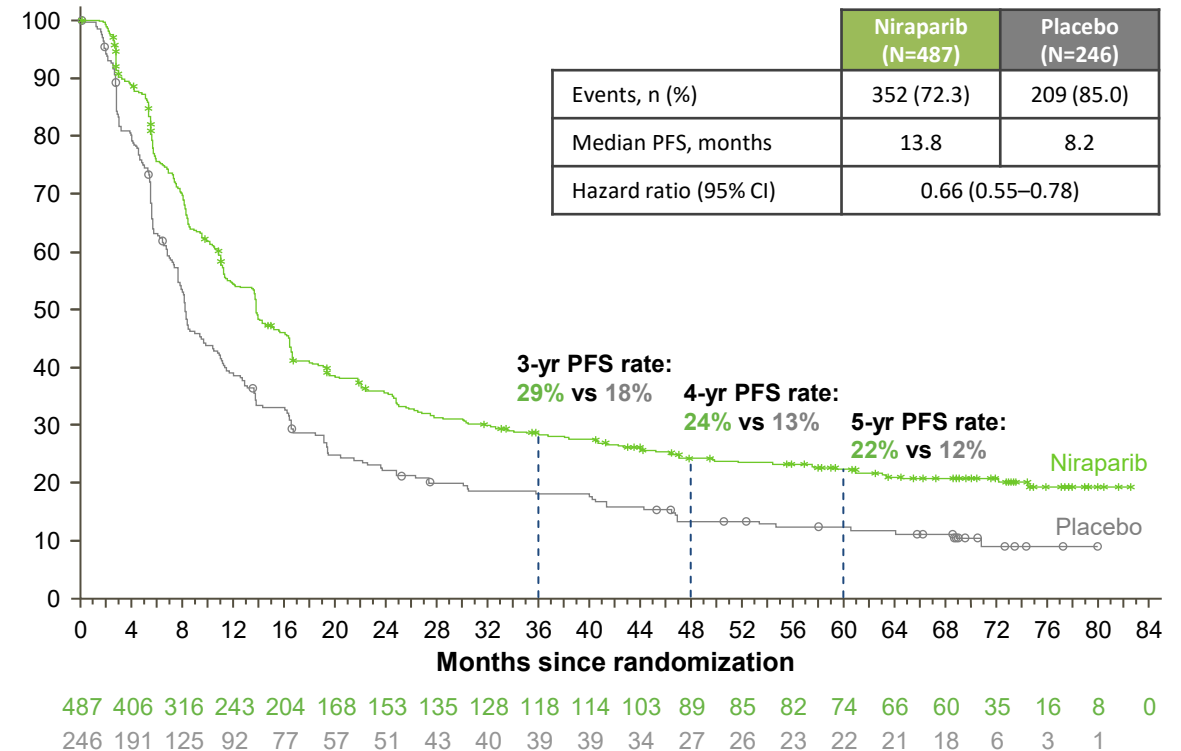


PRIMA Final Analysis: PFS in the overall and HRd populations

PFS in HRd



PFS in ITT

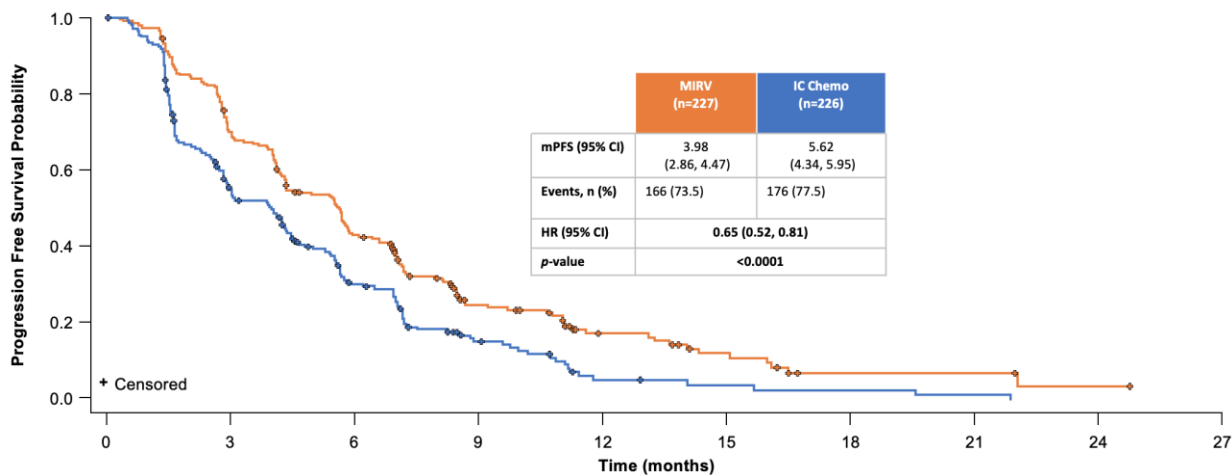


- The 5-year PFS rate **numerically favored niraparib** in the ITT and HRd populations
- Among patients alive at 5 years in the HRD and ITT populations, niraparib-treated patients were ~twice as likely to be progression free compared with placebo (35% vs 16% and 22% vs 12% respectively).

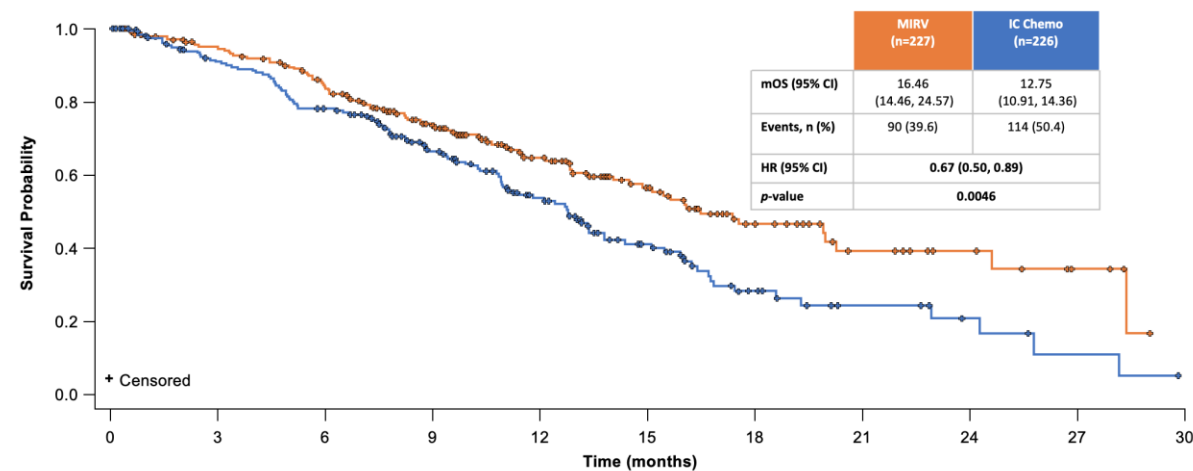
Data cut-off date: 8 April 2024; median duration of follow-up: 6.2 years. Data are investigator-assessed PFS.; HRd = homologous recombination deficient; ITT = intention-to-treat; PFS = progression-free survival; yr = year.

Monk BJ ...Mirza MR et al. Ann Oncol. 2024

MIRASOL: Progression-Free and Overall Survival with Mirvetuximab Soravtansine

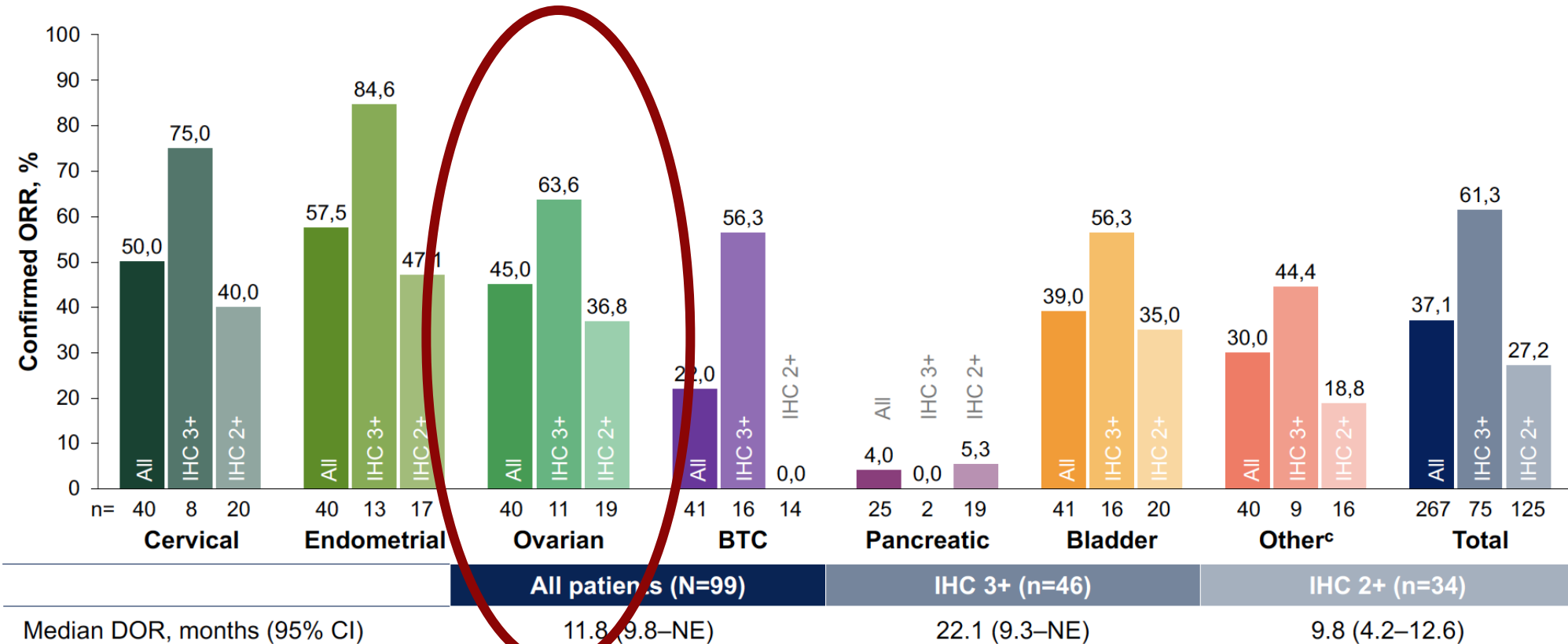


No. Participants at Risk	0	3	6	9	12	15	18	21	24	27
MIRV 227	227	151	89	38	18	10	3	3	1	0
IC Chemo 226	226	98	48	19	5	3	2	1	0	0



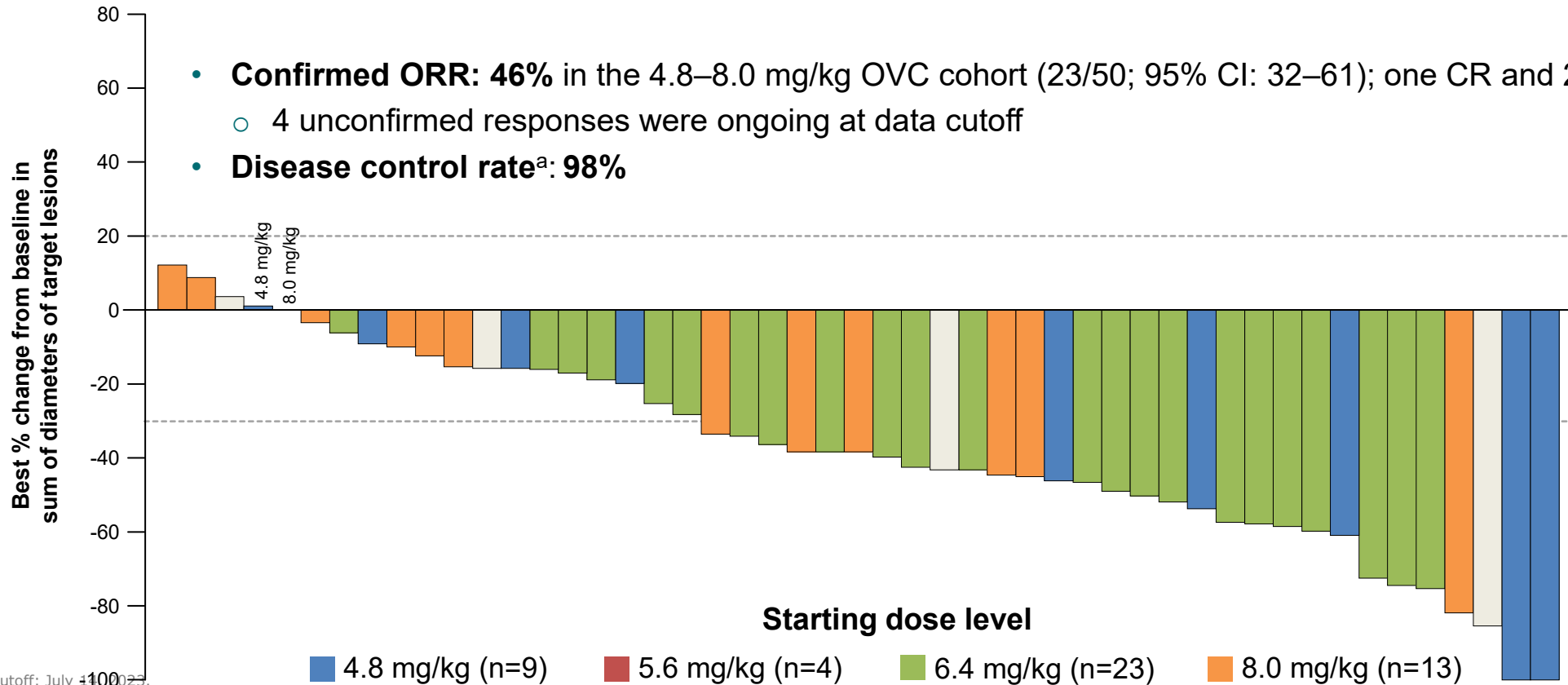
No. Participants at Risk	0	3	6	9	12	15	18	21	24	27	30
MIRV 227	227	204	175	128	82	53	28	15	9	4	0
IC Chemo 226	226	185	157	107	68	39	18	9	5	2	0

Objective Response Rate by HER2 status



Analysis of ORR was performed in patients who received ≥1 dose of T-DXd; all patients (n=267; including 67 patients with IHC 1+ [n=25], IHC 0 [n=30], or unknown IHC status [n=12] by central testing) and patients with centrally confirmed HER2 IHC 3+ (n=75) or IHC 2+ (n=125) status. Analysis of DOR was performed in patients with objective response who received ≥1 dose of T-DXd; all patients (n=99; including 19 patients with IHC 1+ [n=6], IHC 0 [n=9], or unknown IHC status [n=4] by central testing) and patients with centrally confirmed HER2 IHC 3+ (n=46) or IHC 2+ (n=34) status. ^aResponses in extramammary Paget's disease, head and neck cancer, oropharyngeal neoplasm, and salivary gland cancer. BTC, biliary tract cancer; CI, confidence interval; DOR, duration of response; IHC, immunohistochemistry; NE, non-estimable; ORR, objective response rate.

Preliminary efficacy data for R-DXd are promising in pretreated OVC patients



- **Confirmed ORR: 46%** in the 4.8–8.0 mg/kg OVC cohort (23/50; 95% CI: 32–61); one CR and 22 PRs
 - 4 unconfirmed responses were ongoing at data cutoff
- **Disease control rate^a: 98%**

Data cutoff: July 11, 2023.
^aCR + PR + stable disease.

- The efficacy evaluable population included patients who received ≥ 1 dose of study treatment and completed ≥ 1 post-baseline tumor assessment or discontinued treatment for any reason. Change from baseline in target tumor size was assessed per RECIST v1.1. Two patients with no measurable lesions at baseline and one patient who discontinued and did not have a post-baseline tumor assessment were not included in the waterfall plot.
- CI, confidence interval; CR, complete response; ORR, objective response rate; OVC, ovarian cancer; PR, partial response; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1.

ADC's at ESMO 2024 *(posters not included...)*

Authors/Study	Target/drug	Cancer type	N	ORR (%)	DOR (median, months)	PFS (months)
Oaknin et al. TROPION-PanTumor03	TROP-2/Dato-DXd	Ovarian cancer	35	42.9	5.7	5.6
		Endometrial cancer	40	27.5	16.4	6.3
Wang et al.	TROP-2/ sacituzumab tirumotecan	Ovarian cancer	40	40	5.3	6.0
		Endometrial cancer	44	34.1	5.7	5.7 46.5%@6 months
Wu et al.	TROP-2/ sacituzumab tirumotecan+pembro	Cervical cancer	38	57.9	82.1%@6monts	65.7% @6 months
Tang et al. PRO1184-001	TROP-2/SHR-A1921	Ovarian cancer	46	48.8	6.4	7.2
Lee et al.	FRalpha/Rina-S	Ovarian cancer	12*	50	NR	Not reported
		Endometrial/ ovarian cancer	11	30.8	35	Not reported
Alvarez-Secord et al. PICCOLO	FRalpha/ mirvetuximab soravtansine	Ovarian cancer	79	51.9	8.3	6.9
Shu et al.	HER-2/IBI354	Ovarian cancer	129	40-52	Not reached*	6.5
Konecny et al.	Claudin-6/TORL-1-23	Ovarian cancer	32**	21-67	Not reported	Not reported

Ovarian cancer

Primary disease

HRD

HRP

BRCA mut

BRCA wt

Ovarian cancer

Primary disease

HRD

HRP

BRCA mut

BRCA wt

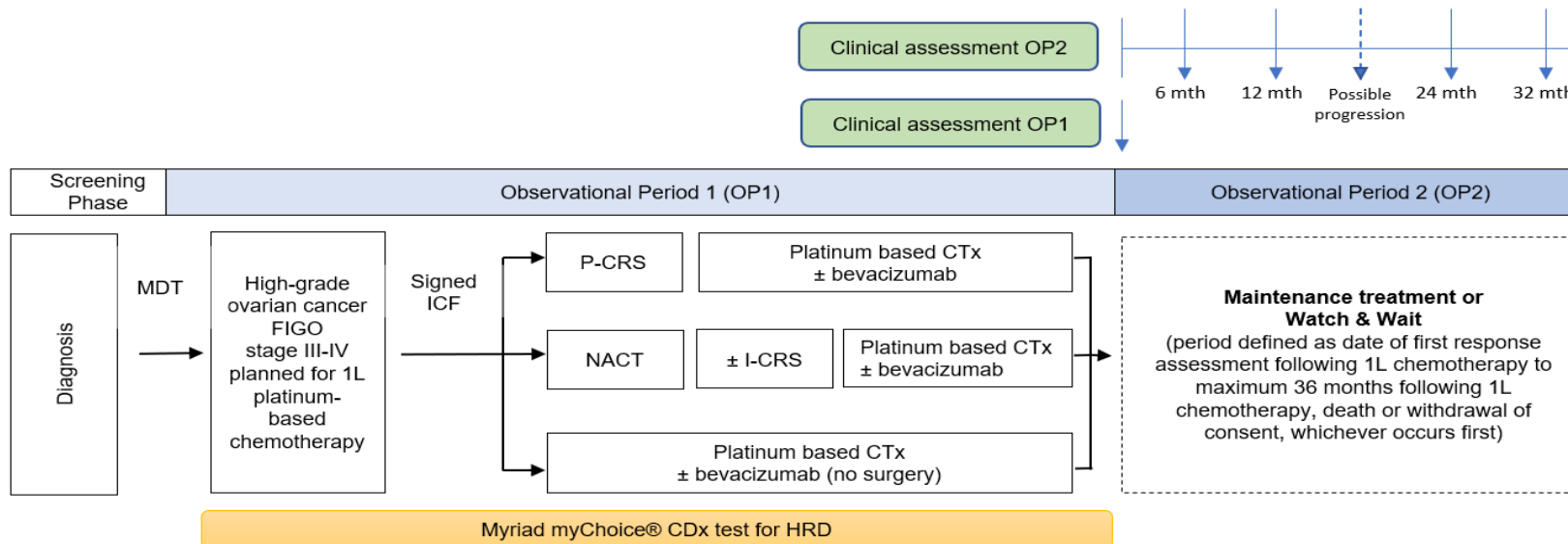
ENGOT-OV85/MK2870-021 TROP-2 ADC Maintenance

ENGOT-OV89/DESTINY OVARIAN-01 HER2 pos
T-DXd Maintenance

HERO

NSGO-CTU-HERO

Characterization of High-grade Serous Ovarian Cancer Patients in Terms of Homologous Recombination Phenotype – A Prospective Observational Study



ENGOT model: A

Status: Recruiting

Planned number of patients: 1000

Sponsor: NSGO-CTU

NSGO-CTU Lead PI: Mansoor Raza Mirza

NSGO-CTU Contacts: Henriette Watson Hansen, Line Jensen, Kristine Madsen and Mansoor Raza Mirza

Primary Endpoint: OP1: Number of HR deficient patients; OP2: Progression at 6 months in subgroups

NSGO-CTU-HERO

Key Inclusion criteria

- Histologically confirmed epithelial ovarian cancer
 - FIGO stage I-II with a known *BRCA1/2* mutation (gBRCA or tBRCA)
 - FIGO stage III-IV of any histology
- Intended for platinum-based doublet chemotherapy
- Patients consent to provide archival tumor tissue sample

Key Exclusion criteria

- Non-epithelial ovarian cancer, borderline tumors, low-grade tumors, or mucinous histology
- Patients with FIGO stage I-II, *BRCAwt* ovarian cancer

Characterization of High-Grade Ovarian Cancer Patients in Terms of Homologous Recombination Phenotype – A Prospective Observational Study

AMENDMENT

A: Increase follow-up from 36 months to 60 months

B: Increase sample size to 1000 patients

C: Publish Annual report (*possibility to share data with the grant provider*)

D: Initiate translational research

1: HRD tested in all patients

2: Tumour tissue blocks/slides are stored, and patients are consented: Exploratory translational analyses will be performed on the collected archival tumour tissue. This will include but is not limited to **FR α , HER2, TROP-2, PD-L1** (including interplay of 22C3 and SP263) -these are potential drug targets for the future - but also molecular profiling (panel), histology.

Date: 26-11-2024

Characterization of High-Grade Ovarian Cancer Patients in Terms of Homologous Recombination Phenotype – A Prospective Observational Study

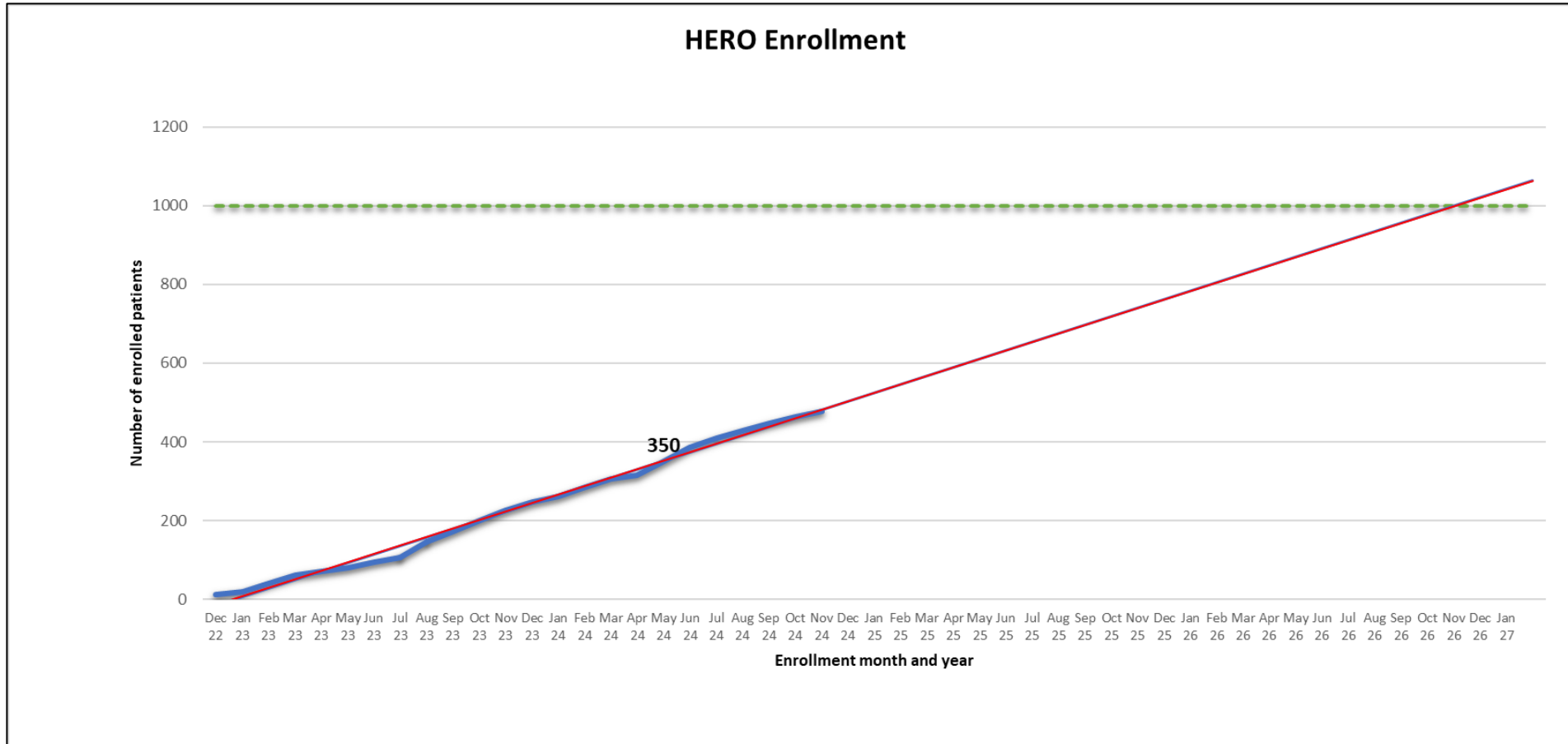
STUDY STATUS AND EXPECTED ENROLLMENT

Country/Site	HERO	
	PI and NC	Inclusion
NORWAY		
Oslo	Elstrand	55
Kristiansand	Vistad	10
Tromsø	Ingebrigtsen	22
Trondheim	Aune	32
Stavanger	Nilsen	17
Bergen	Bjørke	0
TOTAL		136
SWEDEN		
Lund	Malandar (NC)	88
Uppsala	Dimoula	7
Linköping	Lindahl	8
TOTAL		103
DENMARK		
Rigshospitalet	Mirza (NC)	73
Vejle	Adimi	39
Odense	Knudsen	18
Gødstrup	Hæe	6
TOTAL		136
FINLAND		
Kuopio	Sopo	19
Helsinki	Lassus (NC)	57
Oulu	Simojoki	7
Tampere	Staff	19
TOTAL		102
NSGO-CTU TOTAL		477

Characterization of High-Grade Ovarian Cancer Patients in Terms of Homologous Recombination Phenotype – A Prospective Observational Study

STUDY STATUS AND EXPECTED ENROLLMENT

Last patient in expected in Q4 2026



Thank You !