MILO/ENGOT-ov11: Binimetinib Versus Physician's Choice Chemotherapy in Recurrent or Persistent Low-Grade Serous Carcinomas of the Ovary, Fallopian Tube, or Primary Peritoneum

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PURPOSE Low-grade serous ovarian carcinomas (LGSOCs) have historically low chemotherapy responses. Alterations affecting the MAPK pathway, most commonly KRAS/BRAF, are present in 30%-60% of LGSOCs. The purpose of this study was to evaluate binimetinib, a potent MEK1/2 inhibitor with demonstrated activity across multiple cancers, in LGSOC.

METHODS This was a 2:1 randomized study of binimetinib (45 mg twice daily) versus physician's choice chemotherapy (PCC). Eligible patients had recurrent measurable LGSOC after ≥ 1 prior platinum-based chemotherapy but ≤ 3 prior chemotherapy lines. The primary end point was progression-free survival (PFS) by blinded independent central review (BICR); additional assessments included overall survival (OS), overall response rate (ORR), duration of response (DOR), clinical-benefit rate, biomarkers, and safety.

RESULTS A total of 303 patients were randomly assigned to an arm of the study at the time of interim analysis (January 20, 2016). Median PFS by BICR was 9.1 months (95% CI, 7.3 to 11.3) for binimetinib and 10.6 months (95% CI, 9.2 to 14.5) for PCC (hazard ratio, 1.21; 95% CI, 0.79 to 1.86), resulting in early study closure according to a prespecified futility boundary after 341 patients had enrolled. Secondary efficacy end points were similar in the two groups: ORR 16% (complete response [CR]/partial responses[PRs], 32) versus 13% (CR/PRs, 13); median DOR, 8.1 months (range, 0.03 to \geq 12.0 months) versus 6.7 months (0.03 to \geq 9.7 months); and median OS, 25.3 versus 20.8 months for binimetinib and PCC, respectively. Safety results were consistent with the known safety profile of binimetinib; the most common grade ≥ 3 event was increased blood creatine kinase level (26%). Post hoc analysis suggests a possible association between KRAS mutation and response to binimetinib. Results from an updated analysis (n = 341; January 2019) were consistent.

CONCLUSION Although the MEK Inhibitor in Low-Grade Serous Ovarian Cancer Study did not meet its primary end point, binimetinib showed activity in LGSOC across the efficacy end points evaluated. A higher response to chemotherapy than expected was observed and KRAS mutation might predict response to binimetinib.

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Data Supplement Protocol

See accompanying

ASSOCIATED CONTENT

editorial on

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Author affiliations and support information (if applicable) appear at the end of this article.

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INTRODUCTION

Serous carcinoma accounts for approximately 70%-80% of epithelial ovarian, tubal, and peritoneal cancers.¹ Low-grade serous ovarian carcinoma (LGSOC) is a unique tumor that is distinguished from high-grade serous ovarian cancer not only by immunohistochemical profile but also by molecular characteristics, epidemiologic features and clinical behavior.²

Aberrant signaling through the RAS/RAF/MEK/ERK pathway is a characteristic feature of many cancers,

including LGSOC, with, 5%-16% and 16%-47% of LGSOCs having alterations in BRAF and RAS. respectively.3-7

Binimetinib is an oral, potent, selective, allosteric, small-molecule inhibitor of MEK1/2 and is approved in multiple countries in combination with encorafenib for the treatment of patients with unresectable or metastatic BRAF V600E or V600K mutation-positive melanoma.^{8,9} Inhibiting both basal and induced levels of ERK phosphorylation in numerous BRAF-mutated cancer cell



CONTEXT

Key Objective

The objective of the MEK Inhibitor in Low-Grade Serous Ovarian Cancer (MILO)/ENGOT-ov11 study was to evaluate the MEK1/2 inhibitor binimetinib in patients with low-grade serous ovarian carcinomas (LGSOCs).

Knowledge Generated

This study did not meet its primary end point; however, binimetinib showed activity in LGSOC across the efficacy end points evaluated. Chemotherapy responses were higher than predicted. The safety results observed in this study are generally consistent with the known safety profile of binimetinib and with MEK inhibitor class effects.

Relevance

Currently, treatment options are limited for patients with LGSOC, and few offer objective decreases in disease burden or tumor-progression delays. Although this trial did not meet its primary end point, binimetinib did display a clinically meaningful progression-free survival and overall response rate and, therefore, should be considered a viable treatment option in this setting. Forthcoming biomarker analysis may ultimately identify a subset of patients who selectively benefit from binimetinib.

lines (half maximal inhibitory concentration [IC $_{50}$] values as low as 5 nM), binimetinib has nanomolar activity against purified MEK enzyme (IC $_{50}$, 12 nM). Binimetinib has also demonstrated a decrease in pERK when tested in multiple cell lines, regardless of their mutational status and in vitro sensitivity. A prior single-arm, phase II study of the MEK inhibitor selumetinib showed promising activity in recurrent LGSOC. 11

This phase III study was designed to evaluate the efficacy and safety of binimetinib in recurrent or persistent LGSOC. Patients were not selected on the basis of molecular profile; however, archival tumor tissue was collected at the time of enrollment for retrospective mutational analysis. Blinded independent central radiology review (BICR) was used to control for potential investigator variance in assessing response.

PATIENTS AND METHODS

Patients

Patients were > 18 years of age with a diagnosis of LGSOC, fallopian tube or primary peritoneum, confirmed histologically and verified by central pathology review. Archival tissue was also collected for biomarker testing using the FoundationOne Panel (Foundation Medicine, Cambridge, MA). Eligible patients had measurable recurrent or persistent disease (as defined by RECIST V1.1, per BICR) that had progressed (defined as radiologic and/or clinical progression; an increase in CA-125 alone was not sufficient) on or after last therapy, and was not amenable to potentially curative intent surgery, as determined by the investigator. Patients were required to have received ≥ 1 prior platinum-based chemotherapy regimen but ≤ 3 prior chemotherapy regimens in total, with no limit to the number of lines of prior hormonal therapy. Patients had an Eastern Cooperative Oncology Group performance status of 0 or 1. Patients were excluded if they had previous treatment with an MEK or BRAF inhibitor. Additional details regarding inclusion and exclusion criteria are provided in the Data Supplement.

The study was approved by the institutional review board for each site. All clinical work was conducted in compliance with current Good Clinical Practices as referenced in the International Conference on Harmonization of Technical Requirements for Registration of Pharmaceuticals for Human Use. All patients enrolled in the study provided written, informed consent prior to their participation.

Study Design and Treatments

The MEK Inhibitor in Low-Grade Serous Ovarian Cancer (MILO)/ARRAY-162-311/ENGOT-ov11 study was a multinational, randomized, two-arm, open-label, phase III study conducted at 102 sites in 20 countries (ClinicalTrials.gov identifier: NCT01849874; Appendix Table A1, online only). MILO was conducted in collaboration with European Network of Gynecologic Oncological Trial groups (ENGOT) according to the ENGOT Model C.12 Patients were stratified by their last platinum-free interval ($\leq v > 182$ days) and number of prior systemic regimens (1 to 2 v 3) and then randomly assigned 2:1 to receive binimetinib or physician's choice chemotherapy (PCC; pegylated liposomal doxorubicin [PLD], paclitaxel, or topotecan). Patients randomly assigned to binimetinib received 45 mg orally twice daily with water irrespective of food, continuously, starting on day 1. Patients randomly assigned to PCC received one of the following: PLD (40 mg/m² intravenously [IV] on day 1 of every 28-day cycle), paclitaxel (80 mg/m² IV on days 1, 8, and 15 of every 28-day cycle), or topotecan (1.25 mg/m² IV on days 1-5 of every 21-day cycle). Treatment continued until one of the following: locally determined progressive disease (PD) unacceptable toxicity, or inability to continue on protocol-directed therapy (additional information is provided in the Data Supplement). Patients randomly assigned to PCC who developed PD (by local and BICR assessment) were allowed to crossover to treatment with binimetinib provided they met the crossover eligibility requirements (Data Supplement).

Assessments

The primary end point was BICR progression-free survival (PFS). Secondary end points included overall survival (OS), overall response rate (ORR; RECIST v1.1), duration of response (DOR), disease control rate (best response of

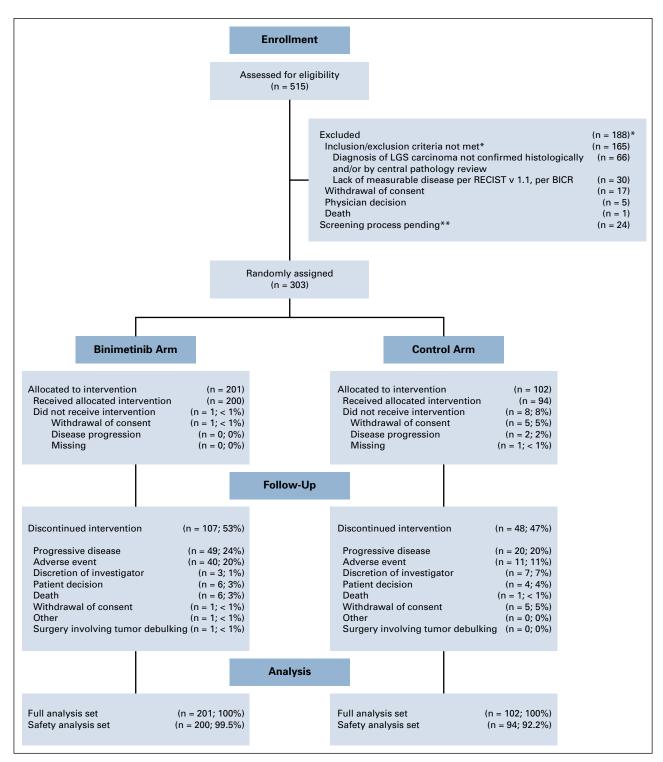


FIG 1. CONSORT diagram (data cutoff date: January 20, 2016). BICR, blinded independent central review; LGS, low-grade serous. (*) Patients may be counted as not meeting > 1 criterion; most common reasons provided. (**) These patients had signed ICF prior to the data cutoff date but the outcome of their screening process was still pending as of the cutoff date.

complete response [CR] or partial response [PR], or stable disease [SD] documented \geq week 24) and safety.

Tumors were assessed every 8 weeks for the first 72 weeks, then every 12 weeks until PD per BICR, irrespective of the days of study- drug administration. Safety was evaluated by ongoing monitoring, including ophthalmic examinations, dermatologic examinations, electrocardiograms, and cardiac scans of ejection fraction.

Statistical Methods

For efficacy, all randomly assigned patients were included in the analyses. For safety, all patients who received

TABLE 1. Baseline Demographics and Disease Characteristics

Characteristic	Binimetinib (n = 201)	PCC (n = 102)
Age, median (range), years	51.6 (23-79)	50.2 (22-78)
Race		
White	184 (92)	93 (91)
Black or African American	2 (< 1)	3 (3)
Asian	6 (3)	2 (2)
American Indian/Alaskan Native	0	1 (< 1)
Other	0	1 (< 1)
Missing	9 (4)	2 (2)
Region		
United States/Canada	84 (42)	45 (44)
Australia	6 (3)	6 (6)
Europe	111 (55)	51 (50)
ECOG PS 0	124 (62)	66 (65)
No. of prior systemic regimens		
Median (range)	2 (1-8)	2 (1-6)
1	86 (43)	42 (41)
2	60 (30)	30 (29)
3	34 (17)	22 (22)
≥ 4	21 (10)	8 (8)
Prior treatment		
Radiation	15 (7)	7 (7)
Surgery	201 (100)	102 (100)
Hormonal therapy	69 (34)	34 (33)
Response to prior platinum-based therapy	83 (46)	59 (58)
Response to prior paclitaxel	61 (30)	43 (43)
PCC ^a		
Pegylated liposomal doxorubicin	_	64 (68)
Paclitaxel	_	25 (27)
Topotecan	_	5 (5)

NOTE. Data are reported as No. (%) unless otherwise indicated.

Abbreviations: —, characteristic is not relevant for the binimetinib arm; ECOG PS, Eastern Cooperative Oncology Group performance status; PCC, physician's choice chemotherapy.

^aData are from the Safety Set. All other data from the Full Analysis Set

binimetinib or PCC were included. PFS was defined as the date of randomization to the date of first documented BICR PD or death due to any cause, whichever occurred first. If a patient had not experienced an event at the time of the analysis cutoff or at the start of any new therapy, PFS was censored at the date of last adequate tumor assessment. PFS and OS were summarized by treatment arm using the Kaplan-Meier method with 95% CIs for medians. The primary end point was compared between treatment arms using a stratified log-rank test, and a hazard ratio [HR] from the stratified Cox model was used to summarize the treatment effect estimate.

ORR was assessed and compared between arms using the Fisher exact test. Median DOR with 95% CIs was provided, with minimum, maximum, and the number still in response (censored) at the time of data cutoff.

A total of 195 events (PD or death) provided 90% power for testing the null hypothesis of no difference in PFS distribution functions between the two treatment arms assuming a true HR of 0.60 using a stratified log-rank test, a 1-tailed α of 0.025, and a 2:1 binimetinib arm to control arm randomization ratio. The HR required to achieve the final critical value was approximately 0.74. Historical evidence suggests that the median PFS in recurrent LGSOC is approximately 7 months.^{6,7} For exponential PFS, a HR of 0.60 translates to a median PFS of approximately 11.7 months in the binimetinib arm. A total of approximately 360 patients were planned. An interim analysis for early stopping for futility was planned at 40% information fraction (ie, n = 78 total progression events per BICR or deaths). The futility boundary was from the unified family of group sequential test designs with parameter P = 0.5.¹³ At 40% information fraction, this corresponds to an approximate boundary of 0.90 on the HR scale. A data cutoff date was set by the sponsor in advance of the occurrence of the 78th event. FoundationOne Panel genes that were prevalent in at least 5% of sequenced patients were tested for association with binary response (CR or PR v SD or PD) using two-sided Fisher exact tests.

RESULTS

Patient Characteristics and Drug Exposure

Patients were enrolled from June 28, 2013, to April 1, 2016. Per recommendation of the data monitoring committee, enrollment was discontinued after the planned interim analysis showed the HR for PFS crossed the predefined futility boundary. The interim analysis was conducted with 303 patients and then, at the time of the decision to discontinue enrollment for the study, 341 patients. Results presented here include an assessment of end points during the randomized period, up to the data cutoff date for the interim analysis of January 20, 2016, for a total of 303 patients (n = 201 patients receiving binimetinib; n = 102 receiving PCC) in the full analysis set and 294 patients (n = 200 receiving binimetinib; n = 94

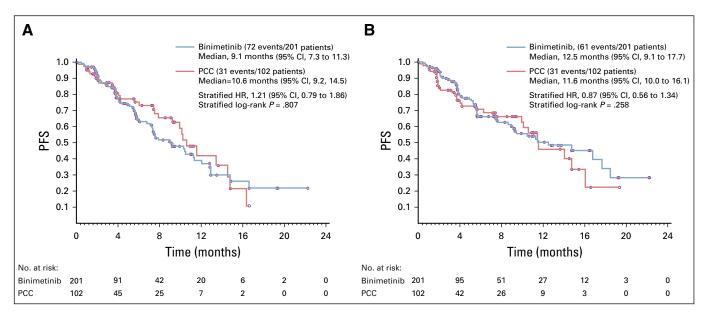


FIG 2. Kaplan-Meier plot of progression-free survival per (A) blinded independent central review and (B) local assessment. HR, hazard ratio; PCC, physician's choice chemotherapy; PFS, progression free survival.

receiving PCC) in the safety population (Fig 1). At the time of data cutoff, (January 20, 2016), 107 patients (53%) and 48 patients (47%) had discontinued treatment of binimetinib and PCC, respectively. The most common reasons for discontinuing initial treatment were disease progression (binimetinib, 24%; PCC, 20%) and adverse events (binimetinib, 20%; PCC, 11%; Fig 1). Patient baseline demographics and disease characteristics were generally well balanced between the two groups (Table 1).

The median duration of exposure to binimetinib was 4.1 months (range, 0-24 months) and the median relative dose intensity was 67.6% (range, 6%-100%). The median duration of exposure to any of the PCC was 4.1 months (range, 0-18 months). Patients in the PCC group received PLD (n = 64 patients; 68%); paclitaxel (n = 25 patients; 27%), or topotecan (n = 5 patients; 5%). The median (range) relative dose intensity was 71.3% (40%-100%) for topotecan, 95.9% (0%-116%) for PLD, and 89.4% (33%-102%) for paclitaxel.

Efficacy

The primary end point of PFS by BICR is shown in Figure 2. The median PFS was 9.1 months (95% CI, 7.3 to 11.3) in the binimetinib group and 10.6 months (95% CI, 9.2 to 14.5) in the PCC group. The HR from the stratified Cox model was 1.21 (95% CI, 0.79 to 1.86). Based on a point-estimate futility boundary of HR > 0.84 for the 103 events observed in the interim analysis, the futility boundary was crossed, indicating a low probability of reaching statistical significance in favor of binimetinib with continued follow-up. In the local investigator assessment, patients in the binimetinib arm had a median PFS of 12.5 months (95% CI, 9.1 to 17.7) compared with 11.6 months (95% CI,

10.0 to 16.1) in the PCC group. The stratified HR was 0.87 (95% CI, 0.56 to 1.34).

The OS results are depicted in the Data Supplement. They were similar between groups, with 164 patients (82%) in the binimetinib group alive at the time of data cutoff for interim analysis compared with 82 patients (80%) in the PCC group. The median OS was 25.33 months (95% CI, 18.46 to not reached [NR]) in the binimetinib group and 20.83 months (95% CI, 17.45 to NR) in the PCC group. The HR from the stratified Cox model was 0.85 (95% CI, 0.49 to 1.48).

The response analysis is shown in Table 2. The ORR by BICR was 16% in the binimetinib group and 13% in the PCC group. The median DOR in the binimetinib group was 8.05 months (95% CI, 5.55 to NR) compared with 6.67 months (95% CI, 3.71 to NR) in the PCC group; 23 patients in the binimetinib group and 8 patients in the PCC group had responses ongoing at the data cutoff date. For the response assessment by local investigator, the ORR was 18% in the binimetinib group and 13% in the PCC group. Median DOR was 15.84 months (95% CI, 10.41 to NR) in the binimetinib group and 9.89 months (95% CI, 6.41 to 9.89) in the PCC group. A waterfall plot displaying percent change in sum of longest diameters per BICR is displayed in the Data Supplement.

At the time enrollment to the study ended in April 2016, patients being treated with binimetinib or PCC were notified of the interim results, but if desired, they were allowed to continue receiving treatment until treatment discontinuation criteria were met. Crossover was stopped at that time. An updated analysis was conducted when the remaining data were collected after the discontinuation of enrollment, with a data cutoff of January 2019 (n = 341). In this

TABLE 2. Summary of Best Overall Response and Duration of Response

Confirmed Best Overall Response^a

Type of Review	Binimetinib (n = 198)	PCC (n = 101)
BICR		
Best overall response		
CR+PR (ORR)	32 (16)	13 (13) ^b
CR	1 (1)	2 (2)
PR	31 (16)	11 (11)
SD	119 (60)	61 (60)
PD	8 (4)	8 (8)
Non-nodal	1 (1)	0
Not done	0	0
Not evaluable for response	19 (10)	11 (11)
Unknown	19 (10)	8 (8)
ORR difference (95% CI)	3.29 (-8.78 to 15.26)	_
Duration of response, months		
Ongoing response	23 (12)	8 (8)
Median (95% CI)	8.05 (5.55 to NR)	6.67 (3.71 to NR)
Range	0.03-11.99	0.03-9.69
Local assessment		
Best overall response		
CR+PR (ORR)	35 (18)	13 (13)
CR	3 (2)	1 (1)
PR	32 (16)	12 (12)
SD	122 (62)	57 (56)
PD	6 (3)	10 (10)
Not evaluable for response	2 (1)	0
Not done	11 (6)	9 (9)
Unknown	22 (11)	12 (12)
ORR difference (95% CI)	4.81 (-7.28 to 16.75)	_
Duration of response, months		
Ongoing response, No. (%)	29 (15)	9 (9)
Median (95% CI)	15.84 (10.41 to NR)	9.89 (6.41 to 9.89)
Range	0.03-18.73	0.03-9.89

NOTE. Data are reported as No. (%) unless otherwise indicated.

Abbreviations: —, no value; BICR, blinded independent central review; CR, complete response; NR, not reached; ORR, overall response rate; PD, progressive disease; PR, partial response; SD, stable disease.

^bThe objective response rates in the subgroups of patients who received topotecan, liposomal doxorubicin, and paclitaxel within the PCC arm were 0% (0/9), 14% (9/66), and 15% (4/26), respectively.

analysis, median PFS by BICR was 10.4 months (95% CI, 7.5 to 12.9) in the binimetinib group and 11.5 months (95% CI, 9.9 to 14.8) in the PCC group (HR, 1.15;95% CI, 0.76 to 1.74; Data Supplement). Median OS was 34.6 months (95% CI, 28.0 to NR) and 34.2 months (95% CI, 21.6 to NR) for the binimetinib and PCC groups, respectively (HR, 0.93; 95% CI, 0.65 to 1.33; Data Supplement). Updated ORR by local investigator assessment

was 24% in both groups (Data Supplement). It is important to note the median OS estimates in both arms increased at the follow-up analysis, possibly as a result of the instability of the median estimates at the time of the initial analysis, when the potential follow-up was substantially (3 years) shorter.

Molecular testing was performed on all consenting patients with adequate archival tissue. At the time of the January

^aConfirmed responses per RECIST 1.1.

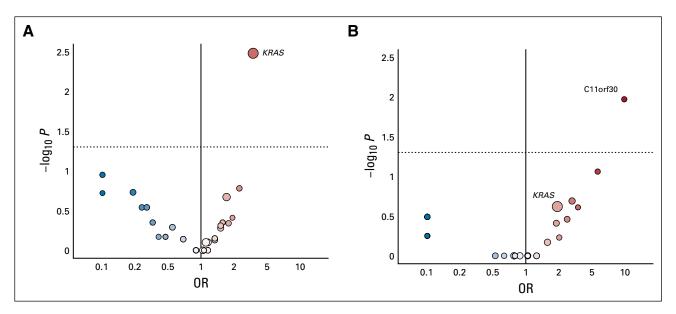


FIG 3. (A) Binimetinib treatment group: univariate analysis of molecular alterations and response to therapy. (B) Physician's choice chemotherapy group: univariate analysis of molecular alterations and response to therapy. OR, odds ratio.

2019 data cutoff, 215 patients had tumor tests available. There were 47 mutations detected in at least 5% of patients, most commonly KRAS, which was found in 33% of patients. The frequency of KRAS mutation was evenly distributed between the two groups and was found in 46 patients (32%) treated with binimetinib and 24 patients (34%) treated with PCC. Unbiased univariate analyses evaluating best ORR to therapy as a binary response showed KRAS mutation was significantly associated with response to treatment with binimetinib (odds ratio [OR], 3.4; 95% CI, 1.53 to 7.66; unadjusted P = .003; Fig 3A) but not PCC (OR, 2.13; 95% CI, 0.67 to 6.81; P = .2; Fig 3B). KRAS mutation was also associated with prolonged PFS in patients treated with binimetinib (median PFS: KRAS mutant: 17.7 months [95% CI, 12 to NR]; KRAS wild-type (WT): 10.8 months [95% CI, 5.5 to 16.7]; P = .006), but not PCC (median PFS: KRAS mutant: 14.6 months [95% CI, 9.4 to NA]; KRAS WT: 11.5 months [95% CI, 5.7 to 26.6]; P = .502). Among those patients treated with binimetinib for whom updated local RECIST 1.1 response data and molecular data were available (n = 133), KRAS mutation status was significantly associated with local best response (P = .004); 44% of patients with KRAS mutation versus

TABLE 3. Best Response by Local RECIST 1.1 Radiology Read in those patients treated with binimetinib

Local Best Response	KRAS Mutant (n = 43), No. (%)	KRAS Wild-Type (n = 90), No. (%)	P
			.004
CR/PR	19 (44)	17 (19)	
SD/PD	24 (56)	73 (81)	

Abbreviations: CR, complete response; PD, progressive disease; PR, partial response; SD, stable disease.

19% of patients with *KRAS* WT had CR or PR (Table 3). Mutations identified by Foundation Medicine Foundation nOne Panel in ≥ 1 tumor sample are listed in the Data Supplement.

Safety

Grade ≥ 3 adverse events were reported in 76% and 44% of patients for binimetinib and PCC, respectively (Table 4). Adverse events that led to permanent discontinuation of study drug were reported by 62 patients (31%) for binimetinib and 16 patients (17%) in the PCC group. Adverse events leading to binimetinib discontinuation in \geq 5 patients were decreased ejection fraction (n = 8 patients; 4%), vomiting (n = 6 patients; 3%), intestinal obstruction and retinal vein occlusion (n = 5 patients; 2% each). The adverse event leading to discontinuation of PCC in ≥ 5 patients was palmar-plantar erythrodysesthesia syndrome (n = 5 patients; 5%). A total of six patients (3%) in the binimetinib group experienced a retinal vein occlusion event, all of which resulted in treatment discontinuation. All events were considered resolved or resolving, two with sequelae. No permanent blindness or permanent loss of vision was observed.

DISCUSSION

Binimetinib did not demonstrate a significant difference in the primary end point of PFS versus PCC in patients with recurrent or persistent LGSOC. In addition, the proportion of patients achieving an objective response and the median DOR appeared similar between arms. Of note, the responses to chemotherapy in this study were greater than anticipated on the basis of previously reported, single-institution retrospective case series.

Although the MILO/ENGOT-ov11 trial did not meet its primary end point, binimetinib did display a clinically

TABLE 4. Adverse Events Reported in > 20% of Treated Patients in Either Arm

	Binimetinib	(n = 200)	PCC (I	n = 94)
Event ^a	Any Grade ^b	≥ Grade 3	Any Grade	≥ Grade 3
Total no. of patients with any adverse event ^c	194 (97)	151 (76)	92 (98)	41 (44)
Diarrhea	141 (70)	13 (6)	30 (32)	0
Nausea	110 (55)	9 (4)	43 (46)	
Vomiting	107 (54)	20 (10)	23 (24)	2 (2)
Blood creatinine phosphokinase increased	99 (50)	52 (26)	1 (1)	0
Fatigue	97 (48)	7 (4)	43 (46)	4 (4)
Edema peripheral	93 (46)	1 (< 1)	8 (9)	0
Dermatitis acneiform	92 (46)	12 (6)	4 (4)	0
Abdominal pain	63 (32)	9 (4)	21 (22)	0
Ejection fraction decreased	57 (28)	7 (4)	10 (11)	1 (1)
Dry skin	56 (28)	3 (2)	14 (15)	0
Constipation	52 (26)	3 (2)	25 (27)	0
Alopecia	50 (25)	0	25 (27)	0
Stomatitis	46 (23)	2 (≤ 1)	27 (29)	4 (4)
Decreased appetite	45 (22)	2 (≤ 1)	17 (18)	2 (2)
Rash, maculopapular	45 (22)	2 (≤ 1)	16 (17)	2 (2)
Palmar-plantar erythrodysesthesia syndrome	9 (4)	0	31 (33)	5 (5)

NOTE. Data are reported as No. (%) unless otherwise indicated.

Abbreviation: PCC, physician's choice chemotherapy.

meaningful PFS and ORR and, therefore, should be considered a viable treatment option in this setting. The median OS for patients with advanced LGSOC approaches 10 years, with patients often experiencing significant morbidity from their disease during that time.² Currently, treatment options are limited for patients with this disease and few offer objective decreases in disease burden or delays in tumor progression. Recent results from another phase II/III trial in 260 patients with recurrent LGSOC showed trametinib was associated with significantly improved PFS (median, 13.0 v7.2 months; HR, 0.48; 95% CI, 0.36 to 0.64; P < .0001) and ORR (trametinib: 26.2% vcontrol:6.2%; OR, 5.4; 95% CI, 2.39 to 12.21; P < .0001) compared with physician's choice standard of care, also indicating the potential of MEK inhibition in this patient population.¹⁴ Of note, the control arm in that study did not appear to perform as well as in the current study, possibly because of differences in inclusion criteria. The trametinib study allowed for an unlimited number of prior chemotherapies, whereas the binimetinib study was limited to patients who had received a maximum of three prior lines of chemotherapy. Differences in study design and inclusion criteria likely selected for a more chemotherapy-resistant population in the trametinib study, explaining the similar activity of MEK inhibitors between the two studies (response rate of 24% on updated analysis of binimetinib study;

26.2% in the trametinib study) but difference in activity within the control arms. Safety results from this study show that patients treated with binimetinib had higher rates of nonserious and serious adverse events overall, as well as grade ≥ 3 adverse events compared with the PCC group, and there were more frequent dose reductions, dose interruptions, and permanent discontinuations due to adverse events experienced by patients in the binimetinib group, resulting in a lower relative dose intensity for the binimetinib group compared with any of the drugs in the PCC group. The majority of adverse events assessed as related to binimetinib were reversible with or without drug interruption. The safety profile observed in this study is consistent with those for the class of MEK inhibitors. ¹⁵

There are several limitations of the study. First, the lack of suitable, validated biomarkers led to a design with an unselected patient population. Post hoc analysis suggests a possible association between *KRAS* mutation and response to binimetinib. Additional exploration is warranted to determine if patients with *KRAS* mutation may derive greater benefit from binimetinib. Although KRAS has been an elusive target across multiple cancer types, prior earlyphase studies have found promising response rates to MEK inhibitors and MEK inhibitor combinations in those

^aAny single patient may have experienced adverse events under multiple terms (ie, not mutually exclusive).

^bGrade is based on National Cancer Institute Common Terminology Criteria for Adverse Events, version 4.03.

^cReported using standard MEDRA dictionary coding.

patients with *KRAS*-mutant LGSOC.¹⁶⁻¹⁸ This has led to considerable interest in the use of mutation status when weighing the expected adverse effects versus benefits of MEK inhibitor therapy. Adverse events in the binimetinib group led to study discontinuations and a low dose intensity. The safety events noted in this study were resolved with conservative supportive care and could potentially be mitigated in future protocols with more proactive management.

In conclusion, although this study did not meet its primary end point, binimetinib showed activity in LGSOC across the efficacy end points evaluated. Chemotherapy responses were greater than predicted. The safety results observed in this study are generally consistent with the known safety profile of binimetinib and with MEK inhibitor class effects. Forthcoming biomarker analysis may ultimately identify a subset of patients who selectively benefit from binimetinib, and additional clinical evaluation is warranted.

AFFILIATIONS

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CLINICAL TRIAL INFORMATION

NCT01849874 (PROSPER)

AUTHORS' DISCLOSURES OF POTENTIAL CONFLICTS OF INTEREST AND DATA AVAILABILITY STATEMENT

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AUTHORS' DISCLOSURES OF POTENTIAL CONFLICTS OF INTEREST

MILO/ENGOT-ov11: Binimetinib versus Physician's Choice Chemotherapy in Recurrent or Persistent Low-Grade Serous Carcinomas of the Ovary, Fallopian Tube, or Primary Peritoneum

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No other potential conflicts of interest were reported.

APPENDIX

TABLE A1. MILO-ENGOT-ov11 Study Investigators: List of Investigators Who Consented a Study Participant

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		(continued on following page)	

 TABLE A1.
 MILO-ENGOT-ov11
 Study Investigators: List of Investigators Who Consented a Study Participant (continued)

 Site No.
 Principal Investigator
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Study Site

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2012 Annual States Annua	Site No.	Site No. Principal Investigator	COS. EIST OF INVESTIGATION WITH CONTINUENT A STUDY FAITURED IN (CONTINUENT) Sub-Investigators and Other Key Personnel	Study Site
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(continued on following page)	2139	Gunnar Kristensen, MD	Janne Kærn Tone Skeie-Jensen, MD; Torbjøm Paulsen, MD; Elisabeth Smogeli, MD; Olesys Solheim, MD; Bente Vilming Elgaaen, MD; Ane Gerda Zahl Eriksson, MD; Brynhildur Eyjolfsdottir, MD; Yun Wang, MD; Christine Tvedt, MD	Avd. for gynekologisk kreft Radiumhospitalet Oslo universitetssykehus HF Ullernchausseen 70, Oslo 0379, Norway
			(continued on following page)	

igators: List of Investigators Who Consented a Study Participant (continued)	Sub-Investigators and Other Key Personnel
A1. MILO-ENGOT-ov11 Study Investiga	Principal Investigator
TABLE A1.	Site No.

Study Site

Site No.	Principal Investigator	Sub-Investigators and Other Key Personnel	Study Site
Poland			
2104	Cezary Szczylik	Lubomir Bodnar, MD, PhD; Lukasz Milewski, MD	Klimika Onkologii, Centralny Szpital Kliniczny MON Wojskowy Instytut Medyczny ul. Szaserow 128, Warszawa, 04-141, Poland
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2118	Aleix Prat Aparicio, Dr; formerly Laura Vidal Boixader, Dr	Ivan Victoria, Dr; Lydia Gaba, Dr; Maria Jose Capella Eizalbe, Dr; Cecilia Orbegoso, Dr; Sonia Viver, Dr	Hospital Clínic de Barcelona (Servicio de Oncologia) C/ Villarroel 170, Barcelona 08036, Spain
2146	Isabel Bover Barcelo, Dr	Neus Ferrer Tur, Dr; Emeterio Orduna Domingo, Dr	Hospital Son Llatzer (Servicio de Oncologia) Orta. Manacor, km 4, Palma de Mallorca 07198, Spain
2183	Beatriz Pardo Burdalo, Dr	Eva Muinos Gallart, Dr. Noemi Casamajo Quella, Dr.; Maria Ochoa de Olza, Dr.; Marta Gill Martin, Dr. Alicia Garcia Arias, Dr	Hospital Duran i Reynals Institut Català d'Oncologia (ICO), Av Gran Via, 199-203 L'Hospitalet de Llobregat, 08908 Spain
2186	Cristina Churruca Galaz, Dr	Nerea Ancizar Lizarraga, Dr. Ane Gibelaide Gonzalez, Dr. Isabel Awarez Lopez, Dr. Ana Paisan Ruiz, Dr	Hospital Universitario Donostia (Servicio de Oncologia C/ Doctor Beguiristain, 117 San Sebastian 20014 Spain
2187	Ferran Losa, Dr; formerly Alicia Garcia Arias, Dr	Ferran Losa Gaspa, Dr. Andres Bujan Rivas, Dr. Helena Verdaguer, Dr. Luis Anselem, Dr	Hospital de Sant Joan d'Espi Moises Broggi (Servicio de Oncología) Carrer de Jacint Verdaguer, 90 Barcelona 08970, Spain
2189	Ignacio Romero Noguera, Dr	Andres Poveda, Dr. Francisco Pendades San Valero, Dr	Fundacion IVO-Instituto Valenciano de Oncología C/ Beltran Báguena, 8 Valencia 46009, Spain
2190	Maria Jesus Rubio Perez, Dr	Raquel Serrano Blanch, Dr; Mariano Rodriguez Maqueta, Dr	Hospital Universitario Reina Sofia/Provincial Servicio de Oncología Av, Menéndez Pidal, s/n Córdoba 14004, Spain
2191	Carmen Esteban Esteban, Dr	J. Ignacio Chacon Lopez-Muniz, Dr; Rosa Maria Jimenez Escribano, Dr	Hospital Virgen de la Salud (Servicioi de Oncologia) Av Barber 30, Toledo 45004, Spain
2242	César Mendiola Fernandez, Dr	Luis Manso Sanchez, Dr. Tomas Pascual Martinez, Dr. Beatriz Sarmiento Torres, Dr. Alicia Julwe San Martin, Dr. Maria del Mar Galera Lopez, Dr	Hospital Universitario 12 de Octubre-Édificio Materno-Infantil (Servicio de Oncología) Av de Cordoba, s/n Madrid 28041, Spain
2243	Eva Maria Guerra Alia, Dr	Elena Lopez Miranda, Dra; Alfredo Carrato Mena, Dr; Noelia Martinez Janez, Dr; Maria Luisa Garcia de Paredes, Dr; Esther Clancas Fuentes, Dr	Hospital Universitario Ramón y Cajal (Servicio de Oncología), Cira de Colmenar Viejo km 9.100, Madrid, 28034 Spain
2420	David Vicente Baz, Dr	Teresa Garcia Manrique, Dr; Ana Maria Grueso, Dr; Antonio Jose Gomez, Dr	Hospital Universitario, Virgen Macarena Avd Dr Fedriana, n°3, Sevilla 41009, Spain
Sweden			
2195	Bengt Tholander	Antoula Koliadi, Dr; Anne von Heideman, Dr; Ann-Marie Lejon, Dr	Onkologkliniken Akademiska Sjukhuset, Uppsala 75185, Sweden
2204	Elisabet Hjerpe	Alexandra Hofsjo, Dr; Caroline Lundgren, Dr; Susanne Fridsten, Dr; Daria Glaessgen, Dr; Hanna Dahistrand, Dr;	Onkologiska kliniken Karolinksa Universitetssjukhuset, Stockholm 171 76, Sweden
The Netherlands	lands		
2117	R. Lalisang, Dr.	Tjan-Heijnen, Dr. Hoeben, Dr. Aarts, Dr. Jansen, Dr. de Boer, Dr. Van den Biggelaar, Dr. Van der Zanden, Dr. Vriens, Dr. de Vos, Dr. Pleunis, Dr. Aaldering, Dr. Soetekouw, Dr	Maastricht University Medical Cente, P Debyelaan 25, Maastricht 6229 HX, The Netherlands
2145	Anneke Westermann, Dr	J. Wilmink, M.D. R. Schlingemann, Prof., Dr. S. Krausz, Dr. J. Tromp, Dr. H. J. Klumpen, Dr. B. Flameling, Dr. B. van Zaane, Dr. L. J. M. Mekenkamp, Dr. S. E. Slegelaar, Dr. M. A. J. Beerepoot, Dr. van Laarhoven, Dr. Wensing, Dr	Medical Oncology, Academic Medical Centre, Meibergdreef 9, Amsterdam Noord-Holland 1105 AZ, The Netherlands
2153	Anna K.L. Reyners, Dr	Mathilde Jalving, Dr. Corina Oldenhuis, Dr	University Medical Center Groningen, Medical Oncology Hanzeplein 1, Groningen 9713 GZ, The Netherlands
United Kingdom	gdom		
2105	Susana Banerjee, Dr	Juan Martin Liberal, Dr. Trana Kordbacheh, Dr. Anna-Maria Bielinska, Dr. Stefan Diem, Dr. Roger Whitelocke, Dr. Amma Sheri, Dr. Saoireo Oliva Dolly, Dr. Lavinia A. Spain, Dr. Alical Okines, Dr. Alsimm Mackin-Dollery, Dr. Alexandros Georgiou, Dr. Alexander Lee, Dr. Nadia Yousaf, Dr. Joao Paulo Lima, Dr. Androea Blondo, Dr. Michael Eric Gore, Dr. Paul G. Ursell, Dr. Benjamin Kasenda, Dr. Rana Canario, Dr. Angela George, Dr. Georgios Rigakos, Dr. Maria Vasilakopoulou, Dr. Lucy Dumas, Dr. Alison Reid, Dr. Margarita Romeo, Dr. Jennifer McLachlan, Dr. Saina Kalailue, Dr. Soo Em Ang, Dr. Nadza Tokaca, Dr. Tom Waddell, Dr. Eugenie Younger, Dr. Stergios Boussios, Dr. Saira Khalique, Dr. Soo Fin Ang, Dr. Nadza Tokaca, Dr. Thubeena Manickavasgar, Nalia Kaudeer, Dr. Michael Moschetta, Dr. Emily Grist, Dr. Gayatin Devi Shankragail Anandappa, Dr. Michael Edward Davidson, Dr.	The Royal Marsden NHS Foundation Trust, Downs Rd, Sutton, Surrey SM2 5PT, United Kingdom
2105B	Susana Banerjee, Dr	Joao Paulo Lima, Dr; Juan Martin Liberal , Dr; Rodger Whitelocke	The Royal Marsden NHS Foundation Trust, Downs Rd, Sutton, Surrey SM2 5PT, United Kingdom
2106	Andrew Clamp, Dr	Laura Horsley, Dr. Nerissa Mescallado, Dr. Gordon Jayson, Prof, Claire Mitchell, Dr, Jurjees Hasan, Dr. Paul Bishop, Prof, Tariq Aslam, Prof; Serena Salvatore, Dr; Saeed Raffi, Dr	The Christie NHS Foundation Trust, Wilmslow Rd, Withington, Manchester, Lancashire M20 4BX, United Kingdom
2120	Anjana Anand, Dr	Stephen Chan, Dr. Mohamed Elalfy, Dr	Nottingham University Hospitals NHS Trust, City Campus, Hucknall Rd. Nottingham, Nottinghamshire NG5 1PB, United Kingdom
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Participant	
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Investigato	
List of	
Investigators: L	
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TABLE A1.	

Site No.	Principal Investigator	Sub-Investigators and Other Key Personnel	Study Site
2154	. Hendrik-Tobias Arkenau, Dr	Matitle Saggese, Dr. toannis Binas, Dr. Charlotte Lemech, Dr.; Mark Voskoboynik, Dr. Rebecca Kristeleit, Dr.; Gabriel Mak, Dr	Sarah Cannon Research Institute United Kingdom, 93 Harley St, London W1G 6AD, United Kingdom
2416	Jennifer Pascoe, Dr	None	Sandwell & West Birmingham Hospitals NHS Trust, City Hospital D46 Sheldon Block, Birmingham B18 7QH, United Kingdom
United States	States		
1001	Robert Coleman, MD	Diane Bodurka, MD; Michael Frumovitz, MD; David Gershenson, MD; Charles Levenback, MD; Karen H. Lu, MD; Alpa Nick MD; Pedro Ramirez, MD; Lois Ramondetta, MD; Kathleen Schmeler, MD; Pamela Soliman, MD; Anil Sood, MD; Shannon Westin, MD; Dan Gombos, MD; Bita Esmaeli, MD; Stella Kim, MD; Jade Schiffman, MD; Priya Bhosale, MD; Preetha Ramalingam, MD	University of Texas IMD Anderson Cancer Center, 1515 Holcombe Blvd, Unit 1362, Houston, TX 77030
1005	Angela Jain, MD	Lainie Martin, MD; Stephanie King, MD; Robert Burger, MD; William Foster, MD; Nyree Tedesco-Garofano, CRNP; Gina Mantia-Smaldone, MD	Fox Chase Cancer Center 333 Cottman Ave, Philadelphia, PA 19111
1013	Kian Behbakht, MD; formerly Susan Davidson, MD	Kian Behbakht, MD; Monique Spillman, MD; Saketh Guntupalli, MD; Carolyn Lefkowits, MD	University of Colorado Denver, Anschutz Medical Campus, 12631 E 17th Ave, B1984, Room 4411, Aurora, CO 80045
1018	Robert Thomas Morris, MD	Gunter Deppe, MD; Shelly Seward, MD; Leigh Ann Solomon, MD; Robert Frank, MD; Mark Juzych, MD; Gabriel Sosne, MD; Asheesh Tewari, MD; Nesrine Khoury, PA-C; Ira Winer, MD, PhD	Barbara Ann Karmanos Cancer Institute, 4100 John R, Suite 721, Detroit, MI 48201
1019	Edward Sausville, MD	Guatam Rao, MD; Marena Patronas, MD; Dana Roque, MD; Bethany Danner, NP; Katherine Tkaczuk, MD	University of Maryland Greenebaum Cancer Center, 22 South Greene St, Baltimore, MD 21201
1020	Robert Wenham, MD	Denise Dorman, RN; Sachin Apte, MD; Hye Sook Chon, MD; Patricia Judson, MD; Johnathan Lancaster, MD; Mian Shahzad, MD; Donna Fabri, ARNP; Sharon Tollin, ARNP; Marilyn Plattner, ARNP	H. Lee Moffitt Cancer Center and Research Institute, 12902 Magnolia Dr., Tampa, FL 33612
1800	David Michael O'Malley, MD	David E. Cohn, MD; Jeffrey M. Fowler, MD; Larry J. Copeland, MD; Floor J. Backes, MD; Ritu Salani, MD; John L. Hays, MD; Shelly G. Jain, MD; Andrew J. Hendershot, MD; Thomas F. Mauger, MD	320 West 10th Ave, Starling Loving Hall M210, Columbus, OH 43210
1803	Premal Thaker, MD	David Mutch, MD; Matthew Poweli, MD; L. Slewart Massad, MD; Andrea Hagemann, MD; Nora Kizer, MD; Yevgeniya Ioffe, MD, Akiva Novetsky, MD; Gunjal Garag, MD; Ivy Wilkinson-Ryan, MD; Nancy Tecu, RN; David Vollman, MD	Washington University School of Medicine, 4911 Barnes-Jewish Hospital Plaza, St Louis, MO 63110
1805	Gottfried Konecry, MD	Alexander C. Black, MD; Anita Kaul, MD; John Anthony Glaspy, MD; John L. Barstis, MD; Martin Clive Palmer, MD; Melissa Jill Cohen, MD; Olga Michelle Olevsky, MD; Rena Desai Callahan, MD; Saeed Sadeghi, MD; Shahnyar Ashouri, MD; Tara McCannel, MD; Denise Karen Oseguera, FNP; Colin McCannel, MD	University of California Los Angeles, Hernatology-Oncology Clinic, UCLA Medical Plaza, Suite 550, Box 956970, Los Angeles, CA 956970
1821	Peter Rose, MD	Chad Michener, MD; Medhi Moslemi-Kebria, MD; Robert De Bernardo, MD; Jason Knight, MD; Rishi Singh, MD	Cleveland Clinic/Main Campus 9500 Euclid Ave, A81, Cleveland, OH 44195
1869	Rachel N. Grisham, MD	Carol A. Aghajanian, MD; Katherine M. Bell-McGuinn, MD, PhD; Karen Cadoo, MB; Martee L. Hensley, MD, MSc; Davd Hyman, MD; Jason A. Konner, MD; Yoly Makker, MD; Roisin E. O'Cearbhail, MB BCh; Paul Sabbathin, MD; David R. Spriggs, MD; William P. Tew, MD; Dmitry Zamarin, MD, Jessica Gahres, PA, Stefanie S, Jacobs, MD; Hebert A. Vargas Alvarez, MD; Murk Hein Heinernann, MD; Jasmine Francis, MD	Memorial Sloan Kettering Cancer Center, 300 East 66th St. New York, NY 10065
1875	Michael S. Gordon, MD	David S. Mendelson, MD; Giraldo Kato, MD; Gary H. Greene, OD	Oncology Research Associates, PLLC <i>drbla</i> Pinnacle Oncology Hematology, 9055 East Del Camino, Suite 100, Scottsdale, AZ 85258
1886	Kathleen Moore, MD	Anii Patel, MD; Alex Cohen, MD; Camille Gunderson, MD; Lisa Landrum, MD; Teresa Larson, MD; Robert S. Mannel, MD; D. Scott McMeekin, MD; Katherine Moxley, MD; Michelle Rowland, MD; Rachel Ruskin, MD; Vinay Shah, MD; LaToya Perry, MD; Katrina Slaughter, MD; Adam Walter, MD; Joan L. Walker, MD	800 NE 10th St, 5th FI, Oklahoma City, OK 73104
1901	Mark A. Retternaier, MD	John Y. Brown, MD; Lisa N. Abaid, MD, MPH; Alberto A. Mendivil, MD; David Wirta, MD; Katerina Kurteeva, MD; Erin Tinnerman, PA-C; Amber Palmer-Chapman, PA-C; Michelle Stone, PA-C; Oystal Gray, PA-C	Gynecologic Oncology Associates, 351 Hospital Rd, Suite 507, Newport Beach, CA 92663
1902	Agustin Garcia, MD; formerly Yvonne Lin-Liu, MD	Lynda Roman, MD; Huyen Pham, MD; Lalia Muderspach, MD; Annie Yessaian, MD; Agustin Garcia, MD; Koji Matsuo MD; Srinivas Sadda, MD; Kathenine Tierney, MD; Ejiean Wu, MD; Laurie Brunette, MD; Kristy Watkins, RN; Grace Facio, RN; Shahram Bonyadlou, MD; Jesse Berry, MD; Jocelyn Garcia, MD	USC/Norris Comprehensive Cancer Center, 1441 Eastlake Ave, Rm 7419, Los Angeles, CA 90033
1903	Bradley Monk, MD; formerly John Farley, MD	John Farley, MD; Dana Chase, MD; Lyndsay Willmott, MD; Stephanie Casey, MSN, ACNP-BC; James M. Goldman, MD	St Joseph's Hospital & Medical Center, 500 W Thomas Rd, Suite 660, Phoenix, AZ 85013
1908	. Alessandro Santin, MD	Peter E. Schwartz, MD; Masoud Azodi, MD; Dan-Arin Silasi, MD; Elena Ratner, MD; Stephanie Cerrito, PA-C; Shriley McCartry, MD, PhD; Lisa Baker, RN, BSN, OCN; Martha Luther, RN, MPH; Diana English, MD; Carlton Schwab, MD; Martha Mitchell, APRN; Andrea Brennan, APRN	Yale School of Medicine, 333 Cedar St, New Haven, CT 06520
1914	. Meaghan Tenney, MD	S. Diane Yamada, MD; Jeffrey Nichols, MD; Emst Robert Lengyel, MD, PhD; Gini Fleming, MD; Juliana Lutz, APN; Constance Stewart, BSN; Julie A. Sharpe, PA-C	University of Chicago Medical Center, 5841 S Maryland Ave MC2050, Chicago, IL 60637
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Site No.	Site No. Principal Investigator	State of the configuration of	Study Site
1915	Carolyn Muller, MD	Teresa Rutledge, MD; Sarah Adams, MD; Frank J. Mares, MD; Barbara C. Marsh, PhD, MD; Michael L. DiMonaco, DO	New Mexico Cancer Care Alliance, 1201 Camino de Salud NE Admin Wing, 2nd Fl, Albuquerque, NM 87106
1923	Alexander Olawaiye, MD; formerly Robert Edwards, MD	John Comerci, MD; Robert Edwards, MD; Alexander Olawiye, MD; Paniti Sukmvanich, MD; Joseph Kelley, MD; Madeleine Courtney-Brooks, MD; Marilyn Huang, MD; Andrew Eller, MD; Denise Gallagher, MD; Joseph Martel, MD	Department of Obstetrics and Gynecology Magee-Womens Hospital of UPMC, 300 Halket St. Pittsburgh, PA 15213
1924	Randall Gibb, MD	James Cometet, MD; Caroline Deigert, PA; Doreen Kenfield, PA; Erin E. Stevens, MD	Billings Clinic, 801 N 29th St, Billings, MT 59101
1927	Robert W. Holloway, MD	Glenn E. Bigsby, IV, DO; James E. Kendrick, IV, MD; David B. Auerback, DO; Lorna Brudie, DO; Victory B. Thomas, MD	Florida Hospital Cancer Institute Gynecologic Oncology, 2501 N Orange Ave, Suite 800, Orlando, FL 32804
1928	Gloria S. Huang, MD	Gary L. Goldberg, MD; Mark H. Enstein, MD, MS; Denis Yi-Shin Kuo, MD; Harriet Smith, MD; David Smotkin, MD; June YiJuan Hou, MD; Merieme Klobocista, MD; Rebecca Phaeton, MD; David C. Gritz, MD MD	Montefiore Medical Center, 1695 Eastchester Rd, Suite 601, Bronx, NY 10461
1929	Jayanthi S. Lea, MD, FACOG	Isabel Villalobos, MS; David S, Miller, MD; Debra L. Richardson, MD; Siobhan M. Kehoe, MD; Ken Y. Lin, MD, PhD; Dustin B. Manders, MD, Christa I. Nagel, MD; Yu-Guang He, MD, Rafael Ufret-Vincenty, MD	University of Texas Southwestern Medical Center, 5323 Harry Hines Blwd, E6. 102 Dallas, TX 75390-9032
1932	Michael Goodheart, MD	David Bender, MD; Priyal Dholakiya, MD; Jesus Gonzalez-Bosquet Erin Salinas, MD; Jean-Marie Stephan, MD; Chelsea Ward, MD; Anna S. Kitzmann, MD; Khadija S. Shahid, OD	University of Iowa Hospital and Clinics, 200 Hawkins Dr. 31506 PFP, Iowa City, IA 52242
1973	Sharad Ghamande, MD	Michael Macfee, MD; Bunja Rungruang, MD; Julia Donovan, MD; Anne Smith, APRN	Georgia Regents University Cancer Center, 1120 15th St, BA-7411, Augusta, GA 30912
1992N	1992M Michael Birrer, MD, PhD	MGH: Cesar M. Castro, MD; Marcela G. del Carmen, MD, MPH; Don S. Dizon, MD; Annekathryn Goodman, MD; Whitfield B. Growdon, MD; Carolyn N. Krasner, MD; Richard T. Penson, MD; John O. Schorge, MD; Tina Atkinson, RN, CCRC; May Campbell, NP, DFCI; Joyce Liu, MD; Christin Hurley-Whalen, RN; Stephanie Morrissey, RN; Victoria Patterson, RN; Lisa Arvine, NP; Suzanne Barlin, DO; Susana Campos, MD; Kelly Cummings, NP; Catherine Earley, NP; Neil Horowitz, MD; Panagiotis Konstantinopoulos, MD; Anne-Marie Wilson, NP; Alexi Wright, MD; Ann Stewart, NP; Colleen Chin, RN, BSN; Ursula Martlonis, MD. MD. RIDMC; Mary Buss, MD, MPH; Carol Delaney, RN; Christina Herold, MD; Stephen Cannistra, MD	Massachusetts General Hospital Cancer Center Yawkey, 55 Fruit St, Boston, MA 021.14
2015	Daniel Spitz, MD	Deidra A. Brown-Brinson, ARNP; Todd Adam Gersten, MD; Robert Jeffrey Green, MD; James Noel Harris, MD; Robert Julian Jacobson, MD; Elisabeth Anne McKeen, MD; Shachar Peles, MD; Ruby W. Pontello, ARNP; Marilyn Meeks Raymond, MD; Neal Evan Rothschild, MD; Augustin J. Schwartz III, MD; Avram Jonathan Smukler, MD; Robin A. Stehlin Stevens, ARNP; Sumithra Vattigunta, MD	Florida Cancer Specialists, 1309 N. Flagler Dr W, Palm Beach, FL 33401
2050	Eric L. Eisenhauer, MD	Thomas Reid, MD; Heather Pulaski, MD; W. Michael Gaynier, DO, Amanda Jackson, MD; Thomas Herzog, MD	University of Cincinnati Physicians Company, 200 Albert Sabin Way, Holmes Hospital Bldg, Rm 4027, Cincinnati, 0H 45267-0457
2069	Leigh Cantrell, MD	Yevgeniy Shildkrot, MD; Susan Modesitt, MD; Linda Duska, MD; Charles Landen, MD; Tyson Ward, MD;	University of Virginia, Department of OB/GYN, GYN/ONC 81 Hospital Dr, Private Clinics 3rd Fl, Rm 3619, Charlottesville, VA 22908
2072	Leslie Randall, MD	Krishnansu Tewani, MD; Fong Liu, MD; Philip DiSaia, MD; Gareth Forde, MD Michael Berman, MD; Lauren Krill, MD; Ramez Eskander, MD; Krista Pfaendler, MD; Robert Bristow, MD; Sara Jordan, MD; Teresa Longoria Robert Bristow, MD; Valerie Bianca Galva-Turner, MD; Marjan Farid, MD	University of California, Irvine-Medical Center, 101 The City Dr South, Bldg 56, Suite 800, Orange, CA 92868
2179	Michael Callahan, MD; formerly Gregory Sutton, MD	Michael Callahan, MD; Hubert Fornalik, MD; Georgiann Linnemeir, MD; Ramana S. Moortby, MD; Rodney S. Bucher, MD; Susan M. Rivers, RN; Rachele A. Willett, RN; Laura Erin Long, PA-C; Nicole L. Flanders, PA-C	St Vincent Gynecologic Oncology, 8402 Harcourt Rd, Suite 420, Indianapolis, IN 46260