

PARP Inhibitor in Platinum-Resistant Ovarian Cancer: Single-Center Real-World Experience

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PURPOSE Poly (ADP-ribose) polymerase inhibitors (PARPi) have proven efficacy in treatment of Breast Cancer (BRCA) gene mutation-positive platinum-sensitive ovarian cancers. There is paucity of data for their role in platinum-resistant ovarian cancer (PROC). We report here retrospective analysis of outcome of PARPi treatment in a group of patients including those of PROC.

PATIENTS AND METHODS We analyzed all consecutive patients who received PARPi. The efficacy of PARPi monotherapy was assessed in patients with relapsed high-grade serous ovarian carcinoma with gBRCAm. The drug was procured through compassionate program. Drugs (olaparib and talazoparib) were provided in capsule form.

RESULTS Between July 1, 2015, and June 30, 2019, 28 patients with ovarian cancer received PARPi. At the time of data censoring (September 30, 2019), four (14.3%) patients are still on treatment. Median age was 54.5 years (range, 39-75 years). Median number of previous lines of chemotherapy received was three (range, 1-6). Eleven platinum-sensitive patients received the drug as maintenance (five in complete response and six in partial response after chemotherapy), whereas 17 (60.7%) had platinum-resistant progressive disease while starting the drug. In PROC, objective response rate (complete response plus partial response) was 47%, median progression-free survival was 8.2 months (5.3-11.3), and overall survival was 14.9 months (11.2-18.5). No new side effects were observed.

CONCLUSION This is the first study from India evaluating PARPi in platinum-resistant ovarian cancer. This study suggests that PARPi is a viable treatment option in patients with PROC with gBRCAm. This should be further evaluated in randomized clinical trial.

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INTRODUCTION

Epithelial ovarian cancer (EOC) is the third most common gynecologic cancer among women in the world and accounts for 6.6/100,000 new cases per year, whereas in India, it is second most common gynecologic cancer among women with an age-standardized rate of 4.9/100,000.¹ The majority of patients with ovarian cancer relapse after a median progression-free survival (PFS) of 12-18 months.²⁻¹³ Outcome for patients with relapse is generally poor with median PFS from 6 to 12 months, which decreases with each relapse (8-12 months in platinum-sensitive cases and 3-6 months in platinum-resistant).¹⁴⁻¹⁸ Despite good response to initial chemotherapy, 75% patients die of their disease-related complications.¹⁹ Therefore, new approaches are needed to improve outcomes.

The improved understanding of mechanisms of EOC has led to the identification of Breast Cancer gene mutation (BRCA) and homologous recombination deficiency (HRD) status as novel predictive biomarkers of

response to chemotherapy as well as to poly (ADP-ribose) polymerase inhibitor (PARPi) treatment.²⁰ To date, niraparib, olaparib, and rucaparib are the only PARPi that have been approved by the US Food and Drug Administration and European Medicines Agency in patients with EOC. It is approved in maintenance settings both in the first-line and subsequent lines for patients who achieved a complete response (CR) or partial response (PR) following chemotherapy. It is also approved in treatment of platinum-sensitive relapsed cases. Here, we report a retrospective analysis evaluating the role of PARPi in platinum-resistant ovarian cancer (PROC). The data have been presented as a poster in ESMO ASIA 2019 (abstr 237p).

PATIENTS AND METHODS

Patients

All patients with EOC who received PARPi between July 1, 2015, and June 30, 2019, at BL Kapur Memorial Hospital, New Delhi, were identified and data

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CONTEXT

Key Objective

What is the role of poly (ADP-ribose) polymerase inhibitors (PARPi) in relapsed platinum-resistant ovarian cancers (PROC) with germline gBRCA mutation?

Knowledge Generated

In PROC, a substantial number of patients (47%) respond to PARPi. The response lasts for a median of 8 months.

Relevance

In PROC with gBRCA1/2m, PARPi is an effective nonchemotherapeutic option.

TABLE 1. Demographics and Patient Characteristics

| Characteristics | N = 28 |
|--|-----------|
| Age, years | |
| Median | 54.5 |
| Range | 39-75 |
| ECOG performance status, No. (%) | |
| 1 | 4 (14.3) |
| 2 | 20 (71.4) |
| 3 | 4 (14.3) |
| Primary disease site, No. (%) | |
| Ovary | 27 (96.4) |
| Fallopian tube | 1 (3.6) |
| Baseline FIGO stage, No. (%) | |
| IIIC | 23 (82.2) |
| IV | 5 (17.8) |
| Family history | |
| Yes | 13 (46.4) |
| No | 15 (53.6) |
| Platinum-sensitive status, No. (%) | |
| Sensitive | 11 (39.3) |
| Resistant | 17 (60.7) |
| Disease status at the start of the drug, No. (%) | |
| CR | 5 (17.8) |
| PR | 6 (21.4) |
| SD | 0 |
| PD | 17 (60.7) |
| BRCA germline mutation status, No. (%) | |
| BRCA 1 mutation | 20 (71.4) |
| BRCA 2 mutation | 8 (28.6) |
| No. previous lines of chemotherapy | |
| Median | 3 |
| Range | 1-6 |

Abbreviations: CR, complete response; ECOG, Eastern Cooperative Oncology Group; FIGO, International Federation of Gynecology and Obstetrics; PD, progressive disease; PR, partial response; SD, stable disease.

were extracted retrospectively. All the patients provided written informed consent. The drug was procured through compassionate program. Drugs were provided in capsule form. Patients were treated continuously with oral olaparib 400 mg twice a day (capsule formulation) or capsule talazoparib 1 mg once daily monotherapy until disease progression or drug discontinuation criteria were met. Hematologic and nonhematologic toxicities were assessed by Common Terminology Criteria for Adverse Events v4.0 (CTCAE) and dose modifications were done as per guidelines.

Data Collection

Patient demographics, tumor staging and pathologic data, treatment-related variables such as number of lines of chemotherapy received, platinum sensitivity, and follow-up data were retrieved. Ethics committee has approved this retrospective collection of data and study for publication.

Statistical Analysis

SPSS version 22 (IBM Corp, Armonk, NY) was used to analyze. The results are expressed as either median (range) or mean \pm standard deviation. Comparisons between categorical variables were analyzed using the χ^2 test. Continuous variables were expressed as medians and ranges and compared using the Mann-Whitney test. Variables influencing overall and progression-free survival rates were compared using the univariate and multivariate Cox regression analysis. Besides this, Kaplan-Meier method with logrank comparison was also used. The results are reported as a hazard ratio with 95% CIs. The $P < .05$ was considered statistically significant.

Outcome Measures and Definitions

We report the objective response rate (CR and PR in patients with measurable disease ie, CR plus PR), clinical benefit rate (CR, PR or stable disease for 24 weeks in patients with measurable disease ie, CR plus PR plus stable disease [as defined by RECIST v1.1]), duration of treatment, progression-free survival (PFS), overall survival (OS), and toxicity rate in patients with ovarian cancer (ovary, fallopian tube, and primary peritoneal). Efficacy data are

TABLE 2. Best Response of PARPi in PROC Cases

| Response | Platinum-Resistant Cases, No. (%) |
|----------|-----------------------------------|
| ORR | 8 (47) |
| CBR | 10 (58.8) |
| CR | 1 (5.8) |
| PR | 7 (41) |
| SD | 2 (11.7) |
| PD | 7 (41) |

Abbreviations: CBR, clinical benefit rate; CR, complete response; ORR, objective response rate; PARPi, poly (ADP-ribose) polymerase inhibitors; PD, progressive disease; PR, partial response; PROC, platinum-resistant ovarian cancer; PSOC, platinum-sensitive ovarian cancer; SD, stable disease.

stratified according to patients' platinum sensitivity status. Platinum-sensitive disease is defined as achievement of a response (CR or PR) with recurrence or disease progression after 6 months of completion of the last dose of platinum-based chemotherapy. Resistant disease is defined when the time of recurrence from the last platinum treatment was < 6 months of completion of last dose of platinum-based chemotherapy.

PFS was calculated from the date of start of drug to the date of the first indication of disease progression or death, whichever occurred first; the data for patients who were alive without disease progression were censored as on the date of data censoring. OS was calculated from the date of start of drug to the date of death from any cause; data for patients still alive were censored at the date the patient was last known to be alive.

Duration of treatment was defined as the date from the start of drug to the date drug was last taken.

The data were censored on September 30, 2019.

RESULTS

Patients

In the study period, 250 nonconsecutive patients with ovarian cancer were tested for gBRCAm, of which 40 (16%) were reported positive. Twenty-eight patients with EOC

received PARPi. Eleven patients had platinum-sensitive and 17 had platinum-resistant disease at the time of starting PARPi. Five (17.8%) patients received talazoparib and 23 (82.2%) olaparib. Demographics and baseline patient characteristics have been described in Table 1. At the time of data censoring, four (14.3%) patients are still on treatment.

Outcome in Overall Patient Population

With the median treatment duration of 11.7 months (95% CI, 10.7 to 18.3), 78.57% patients eventually progressed. At the median follow-up of 15.4 months (range, 1.17 to 45.67 months), the median PFS was 10.14 months (95% CI, 5.9 to 17.5 months).

Outcomes in Platinum-Sensitive and Platinum-Resistant Subsets

Among 11 patients with platinum-sensitive ovarian cancer (PSOC), five patients were in CR and six in PR while starting PARPi. One of the six patients who started PARPi in PR achieved a CR while on PARPi. The rest maintained their response on subsequent evaluation. The response of PARPi in platinum-resistant patient population is shown in Table 2.

The patients with platinum-sensitive disease had significantly better PFS and OS as compared to the resistant subset (Table 3). Figures 1 and 2 show the Kaplan-Meier curve for PFS and OS of platinum-sensitive and platinum-resistant subsets. PSOC had trended toward better treatment duration, 16.9 months versus 9.2 months ($P = .063$).

Most common side effects were fatigue (84%) and loss of appetite (72%). Grade ≥ 3 side effects were documented in 33% patients (anemia in 23.5%, thrombocytopenia in 17.6%, and fatigue 25%). All the patients with toxicity continued the drug with reduced doses except one. One patient developed myelodysplastic disease and another acute myeloid leukemia.

Median dose of olaparib received was 200 mg BD and talazoparib 1 mg OD.

DISCUSSION

There are few treatment options available for the patients with PROC. Three PARPi are approved in OC in the platinum-sensitive setting. Olaparib have been evaluated in PROC as well.²¹⁻²⁴

In our study, objective response rate in platinum-resistant tumors was 47%, which was slightly higher as compared to that in Study 42 and CLIO study, where it was 30% and 36%, respectively.^{23,24}

PFS ranged from 11.2 to 19 months in PSOC and 2.9 to 5.5 months in PROC in various studies.²³⁻²⁶ In our study, PFS was comparable in the platinum-sensitive subset, 16.9 months, whereas it was higher in the platinum-resistant patient population, 8.4 months. It may be because we did imaging and documented progression when

TABLE 3. Comparison of Median of Treatment Duration, PFS, and OS of PSOC and PROC Cases

| Median (months) | Platinum-Sensitive Cases, n = 11 (95% CI) | Platinum-Resistant Cases, n = 17 (95% CI) | P |
|--------------------|---|---|------|
| Treatment duration | 16.9 (10.8 to 25.9) | 9.2 (7.5 to 14.1) | .063 |
| PFS | 16.6 (12 to 21.2) | 8.4 (5.3 to 11.2) | .013 |
| OS | NR | 14.9 (11.2 to 18.5) | .007 |
| 2-year OS | 84% | 32% | |

Abbreviations: NR, not reached; OS, overall survival; PFS, progression-free survival; PROC, platinum-resistant ovarian cancer; PSOC, platinum-sensitive ovarian cancer.

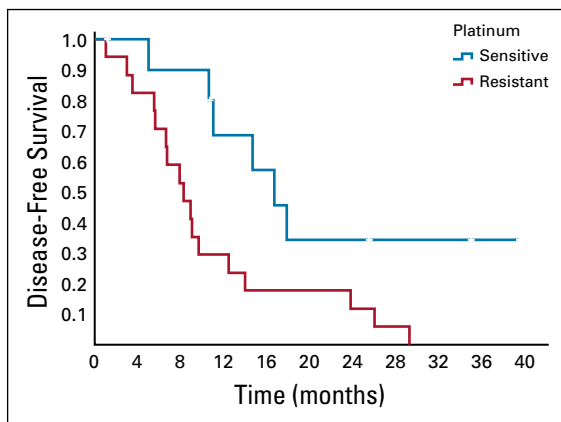


FIG 1. PFS in PSOC and PROC cases. PFS, progression-free survival; PROC, platinum-resistant ovarian cancer; PSOC, platinum-sensitive ovarian cancer.

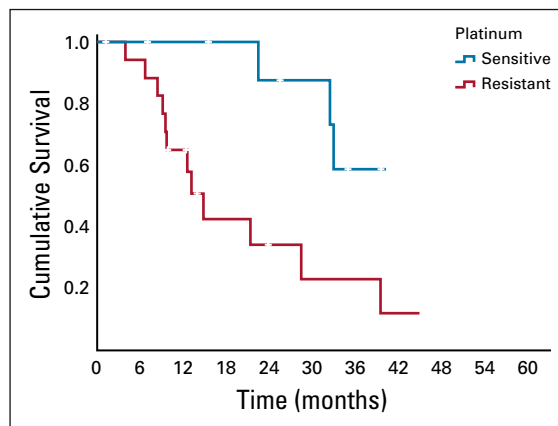


FIG 2. OS in PSOC and PROC cases. OS, overall survival; PROC, platinum-resistant ovarian cancer; PSOC, platinum-sensitive ovarian cancer.

patients became symptomatic instead of following strict 3 monthly evaluations as ovarian cancer has very limited treatment options once it becomes platinum-resistant. In some cases, we continued the PARPi if patient was clinically well and had controlled CA 125 and did not evaluate radiologically. This is in line with clinical practice in community.

Two-year OS in PSOC in this study was 82%, which is close to the reported 84% in the SOLO2 trial.²⁶ None of the studies that evaluated PARPi in platinum-resistant recurrent setting has reported OS. In our study, patients with PROC had a median OS of 14.9 months (11.2-18.5) with a 2-year OS of 32%. In the studies that evaluated single-agent chemotherapy with or without bevacizumab in PROC, the 2-year OS ranged between 20% and 35%.²⁷⁻²⁹ This suggests that PARPi can be evaluated as a treatment option in gBRCAm cases. This needs to be proven in randomized trials.

Side effects were similar to that mentioned in literature including incidence of hematologic malignancy, which was 7% (two patients) in our study. The updated SOLO 2 data showed 8% incidence of hematologic malignancy in

patients who received four or more lines of treatment.^{30,31} Both of our patients received PARPi after four or more lines of treatment.

Although the numbers of patients were very small, the results we report suggest that PARPi monotherapy has relatively high activity, even after multiple lines of chemotherapy, and is associated with objective responses in 47% of patients with clinically meaningful duration of response, and tolerable toxicity in patients with platinum-resistant ovarian cancer with gBRCAm. We did not do somatic BRCA mutation and HRD analysis. We cannot comment on whether these results can be extrapolated to the patients with HRD and somatic BRCA mutation.

In conclusion, PARPi monotherapy is a viable treatment option in patients with gBRCA1/2m ovarian cancer including platinum-resistant patients. The safety profile was consistent with that observed in previously reported PARPi monotherapy studies. To our knowledge, this is the first study from India evaluating it in platinum-resistant ovarian cancer. This should be further evaluated in randomized clinical trials.

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DISCLAIMER

The views expressed in the submitted article are my own and not an official position of the institution or funder.

PRIOR PRESENTATION

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