

NCT01116648	Phase I/II Study of Cediranib and Olaparib in Combination for Treatment of Recurrent Papillary-Serous Ovarian, Fallopian Tube, or Peritoneal Cancer or for Treatment of Recurrent Triple-Negative Breast Cancer
Phase	II
Drug Class	PARP Inhibitor
Drug Name	Olaparib
Alternate Drug Names	AZD2281, KU-0059436, Lynparza
Eligible Participant	Platinum-sensitive, recurrent ovarian cancer
Patients Enrolled	162 (90 ovarian), median of 2 prior therapies
Therapy Setting	Recurrence
Study Design	Open Label, Randomized
Endpoints	ORR evaluated per RECIST, PFS, OS
Biomarkers	Exploratory analysis: germline BRCA mutations
Efficacy	<p>ORR: 79.6% (olaparib + cediranib = combo) vs 47.8% (olaparib alone), (p=0.002) PFS: 16.5 months (combo) vs 8.2 months (olaparib alone), HR: 0.50 (0.30-0.83, p=0.007) OS: 44.2 months (combo) vs 33.3 months (olaparib alone), HR: 0.64 (0.36-1.11, p=0.11)</p> <p><u>Exploratory gBRCA sub-group analysis: gBRCA MUT vs gBRCA WT or status unknown:</u> gBRCA MUT: ORR: 83% (combo) vs 63% (olaparib alone) (p=0.19) PFS: 16.4 mos vs 16.5 mos, HR: 0.75 (p=0.42), OS: 44.2 mos vs 40.1 mos, HR: 0.79 (p=0.55))(n=47)</p> <p>gBRCA WT or status unknown: ORR: 76% (combo) vs 32% (olaparib alone)(p=0.006) PFS: 23.7 mos vs 5.7 mos, HR: 0.32 (p=0.002), OS: 37.8 mos vs 23.0 mos, HR: 0.48 (p=0.074)(n=43)</p>
Clinically Significant Adverse Events	Serious AE: none Grade 3-4 AE: overall rate (70% vs 11%), hypertension (41% vs 0), fatigue (27% vs 11%), and diarrhea (23% vs 0)
Conclusion	Improved PFS and ORR for combination therapy, particularly in BRCA WT cancer
Reference	<p>Liu J, et al. <i>Combination cediranib and olaparib versus olaparib alone for women with recurrent platinum-sensitive ovarian cancer: a randomised phase 2 study</i> Lancet Oncol (2014) 15(11):1207-14 http://www.ncbi.nlm.nih.gov/pubmed/25218906</p> <p>Liu et al. <i>Overall survival and updated progression-free survival results from a randomized phase 2 trial comparing the combination of olaparib and cediranib against olaparib alone in recurrent platinum-sensitive ovarian cancer</i> J Clin Oncol 35. 2017 (suppl: abstr 5535) http://abstracts.asco.org/199/AbstView_199_188186.html</p>

Legend

Therapy Setting

First-line – Therapy given to patients on initial diagnosis of disease as the first, best treatment option.

Maintenance – Therapy given to patients to help keep cancer from coming back after it has responded to therapy.

Recurrence – Therapy given to patients in whom disease has returned after prior therapy.

Study Design

Randomized -- A study in which participants are assigned by chance to the separate study groups.

Non-randomized -- A study in which participants are NOT assigned by chance to the separate study groups.

Efficacy Endpoints

PFS: Progression-Free Survival—length of time during and after treatment during which the cancer does not get worse (usually reported as the time when the cancer for half –or median -- of the people in the treatment group gets worse).

OS: Overall Survival—length of time from the start of treatment that patients are still alive (usually reported as the time when half --or median-- of the people in the treatment group are still alive).

CR: Complete Response -- The disappearance of all signs of cancer in response to treatment.

PR: Partial Response -- A decrease in the size of a tumor, or in the extent of cancer in the body, in response to treatment.

SD: Stable Disease Response -- Cancer that is neither decreasing nor increasing in extent or severity.

ORR: Objective Response Rate -- Sum of complete and partial tumor responses to treatment, divided by the number of patients evaluated.

DCR: Disease Control Rate -- Sum of complete, partial and stable disease tumor responses to treatment, divided by the number of patients evaluated.

HR: Hazard Ratio--measures survival in the treatment group compared to the control group. An HR = 1 means that there is no difference in survival between the groups. An HR < 1 means that the treatment group has a lower risk of death compared to the control group. Range in parentheses is 95% Confidence Interval (CI).

RECIST: Response Evaluation Criteria in Solid Tumors -- Set of rules, based on measurements of the change in tumor size that define when cancer patients improve, stabilize, or worsen during a treatment regimen.

CA125: GCIG CA125 Criteria -- Set of rules, based on measurements of the CA125 biomarker level that define when cancer patients improve, stabilize, or worsen during a treatment regimen

Clinically Significant Adverse Events (Based on National Cancer Institute--Common Terminology Criteria for Adverse Events (CTCAE)

AE: Adverse events-- any undesirable experience associated with the use of a drug

SAE: Serious adverse events – untoward event associated with drug treatment e.g., death, life-threatening, requiring of hospitalization, persistent or significant incapacity; usually graded from 1-5.