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Abstract

These data prompted the development of a refined clinical trial protocol that has recently opened to enrollment. In this new protocol, eligible patients are either platinum resistant or ineligible and have had no more than 1 additional line of chemotherapy after the designation of platinum resistance, other than ADCs. Patients will be randomized to receive 600mg or 800 mg total daily dose given BID. DRP will be assessed retrospectively. In addition to safety, this study will assess Clinical Benefit Rate, RECIST v1.1 based response, and PFS. Collectively, the safety profile and clinical benefit coupled to the unique dual mechanism of action suggest that 2X-121 may be a promising new therapy for advanced ovarian cancer patients.

Left Panel shows gene expression profiles for 2X-121/ E7449 compared to DMSO control, the PARP inhibitor Olaparib and the Tankyrase inhibitor XAV939. The Right Panel Top shows PARP trapping by 2X-121/ E7499. The remaining three panels on the right show western blots for WNT pathway components – Axin and Beta catenin. Data from McConigle et al., 2016

Swimmer's Plot for the BID Cohort of NCT03878849. Each bar represents a single patient across time from first dose. Patient platinum status, key prior therapies are shown on the grid to the left. Note: 14 of the 15 enrolled patients were platinum resistant. The remaining patient was Primary platinum refractory. Arrows represent survival of patients. Data are preliminary as the study continues with 2 patients – 1 BRCAmut and 1 BRCAwt- still on therapy now beyond 24 months.

Kaplan-Meier Survival Analyses. Median Overall Survival (mOS) has not yet been reached for patients in the BID cohort of NCT03878849. Median Time to Follow-up is more than 22 months. Left panel includes the original QD cohort patients in red for context. Right panel shows the K-M plots with the confidence intervals represented by the dotted lines.

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