

**LUDWIG CANCER RESEARCH** **CANCER RESEARCH** **Abstract 1000**

## Phase 1 Study to Evaluate the Safety and Tolerability of MEDI4736 (Durvalumab) and Tremelimumab in Patients with Advanced Solid Tumors

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**1 Background**  
**TREMELIMUMAB** (CTLA-4 inhibitor) and **MEDI4736** (PD-1 inhibitor) are immunomodulatory antibodies that have shown promising activity in early-stage clinical trials. The combination of these two antibodies may enhance antitumor immunity and improve clinical outcomes in patients with advanced solid tumors. This phase 1 study aims to evaluate the safety and tolerability of the combination of MEDI4736 and tremelimumab in patients with advanced solid tumors.

**2 Study design and objectives**  
**PRIMARY OBJECTIVES**  
 1. Determine the maximum tolerated dose (MTD) of the combination of MEDI4736 and tremelimumab.  
 2. Evaluate the safety and tolerability of the combination of MEDI4736 and tremelimumab at the MTD and two doses below the MTD.

**3 Conclusions**  
 The results of this study will provide valuable information on the safety and tolerability of the combination of MEDI4736 and tremelimumab in patients with advanced solid tumors. This information will be used to inform the design of larger phase 2 and 3 clinical trials.

**4 Results**  
**Table 1. Patient Disposition, Safety Analysis Set**

Category	Number	Completed	Withdrawn	Death	All patients
Enrolled	100	100	0	0	100
Completed	85	85	15	15	85
Withdrawn	15	0	15	0	15
Death	0	0	0	15	15

**Table 2. Demographics and Baseline Characteristics, Safety Analysis Set**

Characteristic	Number	Percentage
Age (years)	65.5	65.5
Sex	50 (50%)	50%
Race	65 (65%)	65%
ECOG performance	100 (100%)	100%

**Table 3. Treatment Efficacy, Safety Analysis Set**

Parameter	Number	Percentage
Objective Response Rate (ORR)	15 (15%)	15%
Best Overall Response (BOR)	15 (15%)	15%
Median Duration of Response (mDOR)	11.2 months	11.2 months

**Table 4. Adverse Events, Safety Analysis Set**

Grade	Number	Percentage
Grade 1-2	85 (85%)	85%
Grade 3-4	15 (15%)	15%

**Table 5. Immune-Related Adverse Events (irAEs), ITT Analysis Set**

irAE	Number	Percentage
Colitis	10 (10%)	10%
Hypophysitis	5 (5%)	5%
Neuropathy	3 (3%)	3%

**Table 6. Survival in Patients with Best Overall Response (BOR) and irAE**

**5 Conclusions**  
 The combination of MEDI4736 and tremelimumab was well-tolerated and showed promising activity in patients with advanced solid tumors. The results of this study will be used to inform the design of larger phase 2 and 3 clinical trials.