

## **SELINEXOR COMBINED WITH POMALIDOMIDE AND LOW DOSE DEXAMETHASONE (SPD) IN A RELAPSED / REFRACOTRY MULTIPLE MYELOMA PATIENT POPULATION**

Author(s): Christine Chen, et al.

**Abstract:** PF586

**Type:** Poster Presentation

**Presentation during EHA23:** On Friday, June 15, 2018 from 17:30 - 19:00

**Location:** Poster area

### **Background**

The nuclear export protein exportin 1 (XPO1) is overexpressed in a wide variety of cancers including multiple myeloma (MM). Selinexor is a first-in-class Selective Inhibitor of Nuclear Export (SINE) compound that binds and inactivates XPO1. Selinexor forces nuclear retention and reactivation of cell cycle regulators such as p53, I $\kappa$ B, and Rb. Pomalidomide/dexamethasone (Pd) is approved in relapsed/refractory MM (RRMM) with an overall response rate (ORR) of 30% and progression-free survival (PFS) rate of 3.6 months in patients (pts) having received a prior proteasome inhibitor (PI) and IMiD. Strategies to improve the ORR and PFS are needed. In murine MM models, the combination of selinexor with IMiDs shows synergistic anti-MM activity and good tolerability.

### **Aims**

This Ph 1b/2 (NCT02343042), dose escalation study was designed to determine the maximum tolerated dose (MTD) and recommended phase 2 dose (RP2D) for the safety, tolerability and efficacy of the combination of selinexor, pomalidomide, and low dose dex (SPd) in pts with RRMM.

### **Methods**

Pts with RRMM who received  $\geq$  2 prior therapies including lenalidomide (len) and a PI were enrolled. Selinexor was evaluated in 2 different dosing schedules of once-weekly (QW, 60; 80 mg) or twice-weekly (BIW, 60; 80 mg), with pomalidomide (pom) 4 mg PO daily, and dexamethasone (dex) 20 mg BIW or 40 mg QW.

### **Results**

As of Feb 27<sup>th</sup> 2018, 33 pts (16 male / 17 female) have been enrolled. The median age is 61 years, with a median of 4 (range, 2 – 9) prior treatment regimens. Thirty-one patients were IMiD refractory (20 len, 11 pom/len). Six dose limiting DLTs were observed: G3 fatigue (60 mg BIW, pom 4 mg), G3 febrile neutropenia (FN) (60 mg BIW, pom 3 mg), G3 FN and G4 neutropenia (ANC) (80 mg QW, pom 4), G3 thrombocytopenia (PLT) (80 mg QW, pom 3 mg) and 4 missed doses in Cycle 1 due to symptomatic hyponatremia (80 mg BIW, pom 4 mg). Enrollment on selinexor 80 mg QW, pom 3 mg is ongoing. Common treatment related Grade 1/2 adverse events (AEs) include: nausea (48%), fatigue (42%), anorexia (45%) and diarrhea (30%). Grade 3/4 AEs include: ANC (55%), PLT (30%), and anemia (27%). Twenty-seven pts were evaluable for response. Responses rates can be seen in Table 1. Median PFS is 11.6 months with a median follow up of 7.7 months.

**Table 1. SPd – Response Rates in Evaluable Patients**

<b>Prior Therapy Status</b>	<b>N*ORR</b>	<b>CBR</b>
<b>Pom Naïve &amp; Len Refractory or Relapsed</b>	19 (63%)	12 (74%)
<b>Pom &amp; Len Refractory</b>	8 (38%)	5 (63%)

Overall Response Rate= VGPR + PR, Clinical Benefit Rate= VGPR + PR + MR (\*Includes 1 unconfirmed PR and 1 unconfirmed MR)

### **Conclusion**

Enrollment is ongoing to evaluating once weekly selinexor in combination with Pd. This all oral combination of

selinexor, pom and dex (SPd) has significant clinical activity with an ORR 63% in pom naive pts with heavily pretreated MM compared to previously published data of 30% ORR. No unexpected adverse events were noted. Phase 1 dose escalation of the combination of SPd is ongoing to define the RP2D. SPd appears active and supports further clinical development in RRMM.

**Session topic:** 14. Myeloma and other monoclonal gammopathies - Clinical

**Keyword(s):** Dexamethasone, Imids, Multiple Myeloma