ANCO: ASCO Highlights 2018 Hematologic Malignancies

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Brian Jonas, MD, PhD ANCO: ASCO Highlights 2018

Relevant financial relationships in the past twelve months by presenter or spouse/partner:

Consulting: AbbVie, Amgen, Tolero
Grant/Research Support to Institution: AbbVie, Pharmacyclics, Glycomimetics, Daiichi Sankyo,
Genentech/Roche, Celgene, Forma, Incyte, Esanex, AROG, Accelerated Medical Diagnostics, LP
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Patents Pending: Accelerated Medical Diagnostics

The speaker will directly disclosure the use of products for which are not labeled (e.g., off label use) or if the product is still investigational.

ASCO 2018 Annual Meeting Heme Abstracts

Devel Thera n=255 Leuk, MDS, Allo n=83 Plasma Cell n=60 Lymphoma and CLL n=89

Abstracts Covered n=5

- **Abstract 7000**: Ivosidenib in mutant IDH1 relapsed/refractory acute myeloid leukemia: Results of a Phase 1 study.
- **Abstract 7010**: Durable response with venetoclax in combination with decitabine or azacitidine in elderly patients with acute myeloid leukemia.
- Abstract 7502: Phase 2 CAPTIVATE results of ibrutinib plus venetoclax in first-line CLL.
- Abstract 8000: Once-weekly vs twice-weekly carfilzomib dosing plus dexamethasone in patients with relapsed and refractory multiple myeloma: Results of the randomized phase 3 study A.R.R.O.W.
- Abstract 8007: bb2121 anti-BCMA CAR T-cell therapy in patients with relapsed/refractory multiple myeloma: Updated results from a multicenter phase I study.

Abstract 7000

7000

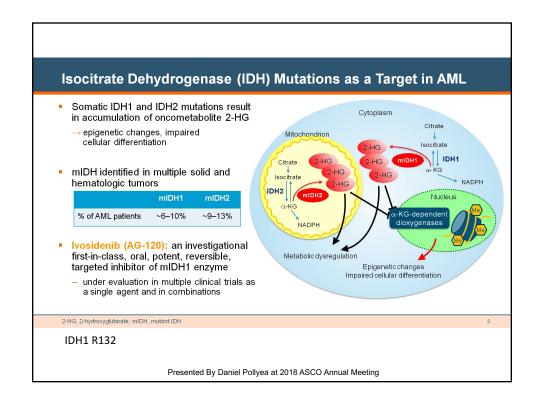
Ivosidenib (IVO; AG-120) in mutant IDH1 relapsed/refractory acute myeloid leukemia (R/R AML): Results of a phase 1 study

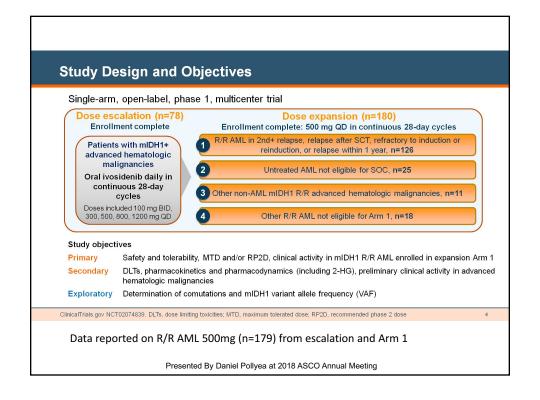
Daniel A Pollyea¹, Courtney D DiNardo², Stéphane de Botton³, Eytan M Stein⁴, Gail J Roboz⁵, Alice S Mins⁶, Ronan T Swords⁷, Jessica K Altman⁸, Robert H Collins⁸, Gabriel N Mannis¹⁹, Geoffrey L Uy¹, Will Donnellan¹², Arnaud Pigneux¹³, Amir T Fathi¹⁴, Hua Liuf⁵, Bin Wuf⁵, Eyal C Attar¹⁵, Martin S Tallman⁴, Richard M Stone, ¹⁴ Hagop M Kantarjian²

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Presented at the American Society of Clinical Oncology (ASCO) Annual Meeting, June 1–5, 2018, Chicago, IL, USA

Presented By Daniel Pollyea at 2018 ASCO Annual Meeting





AEs of Interest: R/R AML 500 mg (n=179)

Leukocytosis^a

- Grade ≥ 3 leukocytosis reported in 14/179 patients (8%)
- Managed with hydroxyurea
- None were fatal

ECG QT prolongation

- Grade ≥ 3 QT prolongation reported in 18/179 patients (10%)
- Study drug was reduced in 2 patients and held in 13 patients (all grades)
- None were fatal
- QT prolonging medications such as antifungals and fluoroquinolone anti-infectives were allowed on study with monitoring

IDH differentiation syndrome (IDH-DS)

- All grade reported in 19/179 patients (10.6%)
- Resolved in 17 patients, ongoing in 2 patients at data cut
- Grade ≥ 3 IDH-DS in 9 (5.0%)
- 7/19 IDH-DS patients had co-occurring leukocytosis
- Study drug held in 6 patients (3.4%)
- No instances of IDH-DS led to dose reduction, permanent treatment discontinuation, or death
- Managed with corticosteroids and diuretics, and hydroxyurea if accompanied by leukocytosis
- Best response for the 19 patients with IDH-DS:

Best Response	CR	CRh	CRi/CRp	MLFS	SD	NE
n=19	5	0	3	2	8	1

These events were managed using standard of care treatments and ivosidenib dose modifications as required

"Grade 3 = WBC > 100,000/mm³; Grade 4 = clinical manifestations of leukostasis, urgent intervention indicated

Data cutoff: 10Nov2017 CRi, CR with incomplete hematologic recovery; CRp, CR with incomplete platelet recovery; MLFS, morphologic leukemia-free state;

NE, not evaluable; SD, stable disease

Other G3+ TEAE in >1 patient - febrile neutropenia (29.1%), anemia (20.1%), diarrhea (2.2%), fatigue (1.7%), dyspnea (3.9%), pyrexia 1.1%)

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Response in R/R AML 500 mg (n=179)

	R/R AML 500 mg (n=179)
CR+CRh rate, n (%) [95% CI]	57 (31.8) [25.1, 39.2]
Time to CR/CRh, median (range) months	2.0 (0.9, 5.6)
Duration of CR/CRh, median [95% CI] months	8.2 [5.6, 12.0]
CR rate, n (%) [95% CI]	43 (24.0) [18.0, 31.0]
Time to CR, median (range) months	2.8 (0.9, 8.3)
Duration of CR, median [95% CI] months	10.1 [6.5, 22.2]
CRh rate, n (%)	14 (7.8)
Duration of CRh, median [95% CI] months	3.6 [1.0, 5.5]

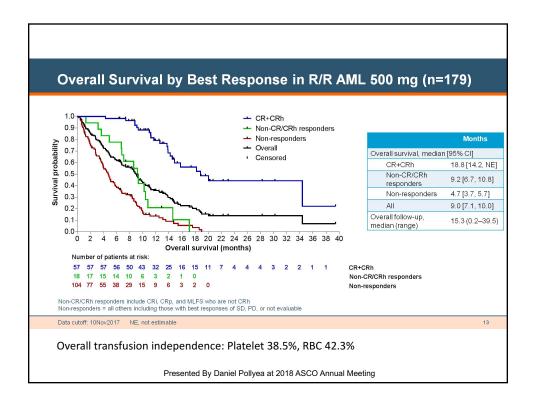
	R/R AML 500 mg (n=179)
Overall Response Rate, n (%) [95% CI]	75 (41.9) [34.6, 49.5]
Time to first response, median (range) months	1.9 (0.8, 4.7)
Duration of response, median [95% CI] months	6.5 [5.5, 10.1]
Best response, n (%)	
CR	43 (24.0)
CRi or CRp	21 (11.7)
MLFS	11 (6.1)
SD	68 (38.0)
PD	15 (8.4)
NA	21 (11.7)

CRh = 9 patients with investigator-assessed responses of CRi/CRp and 5 with MLFS

Among the 179 patients with R/R AML, 5 from dose escalation and 1 from dose expansion were not positive for mIDH1 by the companion diagnostic test and none of these 6 patients achieved a CR or CRh
CR+CRh was consistent across baseline age groups, including patients who were > 65 years of age
Overall response rate includes CR, CRI/CRp, MLFS and PR

Data cutoff: 10Nov2017. PD, progressive disease; PR, partial response

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Abstract 7000 Conclusions

- Ivosidenib is an oral IDH1 inhibitor that is well tolerated and induces durable responses in patients with R/R IDH1-mutated AML
 - Non-CR/CRh responders also had favorable OS
 - 23% of CR/CRh responders cleared IDH1 mutation
- Need to be aware of IDH-DS
- Study impact:
 - Results published in NEJM 2018; 378(25): 2386-98
 - Ivosidenib (Tibsovo) FDA approved on 7/20/18
 - New standard of care for R/R mIDH1 AML

Abstract 7010

Durable Response with Venetoclax in Combination with Decitabine or Azacitidine in Elderly Patients with Acute Myeloid Leukemia

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Department of Leukemia, The University of Texas MD Anderson Cancer Center, Houston, TX, USA; "Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University, Baltimore, MD, USA; "Abbvie inc., North Chicago, IL, USA; 'Department of Hematology and Hematopoletic Cell Transplantation and Gehr Family Center for Leukemia Research, City of Hope National Medical Center, Duarte, CA, USA; 'University of California Davis Comprehensive Cancer Center, Sacramento, CA, USA; 'The Alfred Hospital and Monash University, Melbourne, Australia; 'Clinical Research Division, Fed Hutchinson Cancer Research Center and Division of Hematology, Department of Medicine, University of Washington School of Medicine, Seattle, WA, USA; 'Northwestern University Feinberg School of Medicine, Chicago, IL, USA; 'Department of Hematology and Oncology, Emory University School of Medicine, Altanta, USA; 'Usa, 'Genterch, Inc., South San Francisco, CA, USA; 'University of Colorado School of Medicine, Australia Oncology, Dana-Farber Cancer Institute, Boston, MA, USA

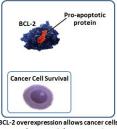
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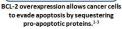
June 4th, 2018

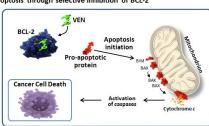
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Venetoclax and AML

VEN promotes apoptosis through selective inhibition of BCL-2







VEN binds selectively to BCL-2, freeing pro-apoptotic proteins that initiate apoptosis. 4-6

- AML median age at diagnosis 68 and pts are often ineligible for or refractory to intense chemotherapy
- BCL-2 is highly expressed in AML and is associated with poor outcomes
- Ven is an oral BCL-2 inhibitor with activity in AML

Pratz et al, BSH, #BSH18-OR-007.

Study Design and Objectives

- Design: Phase 1b, open label, multicenter dose escalation and expansion
- Endpoints: Safety, Rates of CR/CRi, Overall Survival (OS), and Duration of Response (DOR)

PRIMARY OBJECTIVE

To assess the safety of venetoclax in combination with decitabine or azacitidine in patients ≥65 years of age with untreated AML who are ineligible for standard induction chemotherapy

SECONDARY OBJECTIVE

To assess CR, CRi, DOR, and OS

EXPLORATORY OBJECTIVE

To assess the impact of venetoclax on minimal residual disease (MRD)

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PRESENTED BY: Courtney D. DiNardo, MD, MSCE

*Venetoclax dose ramped up from 100mg to 400mg or 800mg over 3-4 days

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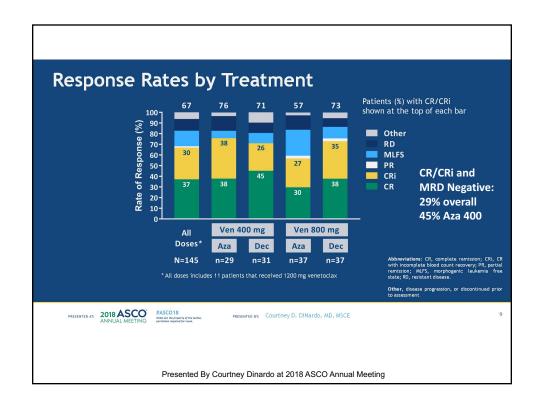
Treatment Emergent Adverse Events (AE)

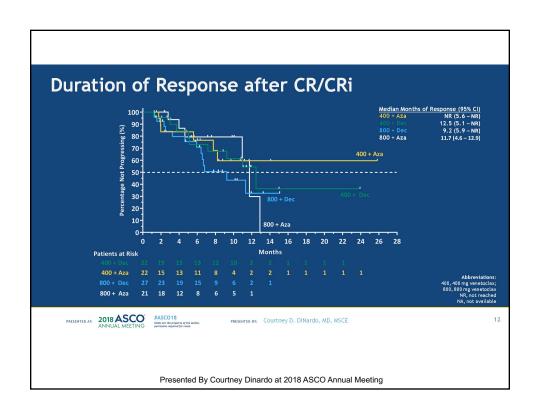
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AEs in ≥25% of patients	Any grade	Grade 3/4	Serious AEs in ≥3% of patients	N = 145
Any event, n (%)	145 (100)	141 (97)	Any event, n (%)	102 (70)
Nausea	88 (61)	2 (1)	Febrile neutropenia	46 (32)
Diarrhea	76 (52)	7 (5)	Pneumonia	17 (12)
Constipation	70 (48)	2 (1)	Bacterial Infection	9 (6)
Febrile neutropenia	63 (43)	63 (43)	Lung Infection	7 (5)
Fatigue	54 (37)	8 (6)	Sepsis	6 (4)
Hypokalemia	49 (34)	15 (10)	Hypotension	5 (3)
Decreased appetite	48 (33)	3 (2)	Mental Status Changes	4 (3)
Decreased WBC count	45 (31)	45 (31)	Gastrointestinal Hemorrhage	4 (3)
Vomiting	44 (30)	0	Mucosal Inflammation	4 (3)
Platelet count decreased	42 (30)	35 (24)	Patient Disposition	N=145
Anemia	40 (28)	36 (25)	Patient Disposition Deaths, n (%)	N=145
Cough	41 (28)	0	, , , , ,	F (2)
Peripheral edema	41 (28)	0	≤30 days after Ven start	5 (3)
	1		≤60 days after Ven start	11 (8)

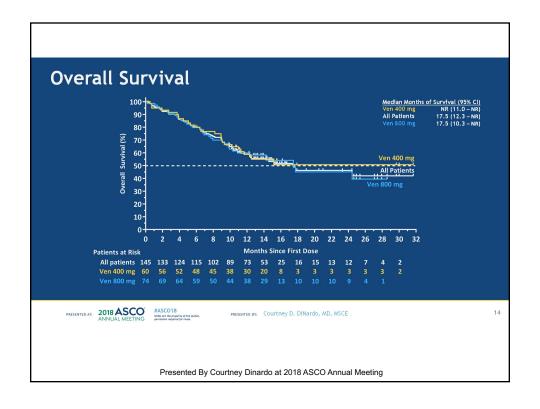
- Rates of AEs between patients treated with Dec or Aza were similar at respective Ven doses
- No events of laboratory or clinical tumor lysis syndrome (TLS) were observed

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Solders are the property of the cushor.

Presented By Courtney Dinardo at 2018 ASCO Annual Meeting







Abstract 7010 Conclusions

- The combination of Ven + HMA has significant activity in elderly and high risk AML, including high CR/CRi rates, MRD negativity, DoR and OS
- Regimen is tolerable but management is very different from typical HMA monotherapy
- Study impact:
 - Results published in Lancet Oncology 2018; 19: 216-28
 - FDA breakthrough designation for AML 1/2016
 - Regimen is already being used off-label by many groups
 - May become the standard of care for elderly AML P3
 RDBPC trial of Aza+Ven vs Aza+Placebo is ongoing

Abstract 7502

Phase 2 CAPTIVATE Results of Ibrutinib Plus Venetoclax in First-line Chronic Lymphocytic Leukemia (CLL)

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Xavier C. Badoux, MBBS, FRACP, FRCPA,⁴ Thomas J. Kipps, MD, PhD,⁵ John N. Allan, MD,⁶
Alessandra Tedeschi, MD,⁷ John M. Pagel, MD, PhD,⁸ Bryone J. Kuss, MBBS, PhD, FRACP, FRCPA,⁹
Eva Gonzalez-Barca, MD, PhD,¹⁰ Paolo Ghia, MD, PhD,¹¹ Karl Eckert, BA,¹² Kristin Russell, BS,¹²
Cathy Zhou, MS,¹² Joi Ninomoto, PharmD,¹² James P. Dean, MD, PhD,¹²
Danelle F. James, MD, MAS,¹² Constantine S. Tam, MBBS¹³

Presented By William Wierda at 2018 ASCO Annual Meeting

Introduction

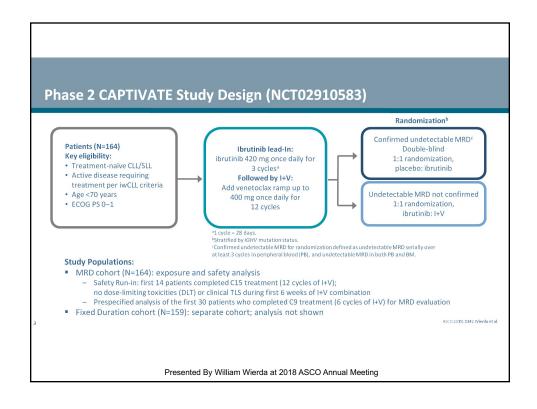
- Ibrutinib: first-in-class, once-daily oral BTK inhibitor
 - High single-agent efficacy in CLL but undetectable MRD is $\rm rare^{1\text{-}3}$
- Venetoclax: oral BCL-2 inhibitor with high activity in CLL
- Rationale for ibrutinib + venetoclax (I+V)
 - Synergy and complementary clinical activities with combination in preclinical and ongoing clinical studies⁴⁻⁶
 - Potential for deeper remissions and ibrutinib treatment holidays with all-oral combination
 - Potential to lower tumor lysis syndrome (TLS) risk with ibrutinib lead-in $^{7\text{-}9}$
- Phase 2 CAPTIVATE study (PCYC-1142): I+V in first-line CLL
 - Primary objectives (MRD Cohort):
 - $\bullet\,$ Pre-randomization phase: undetectable MRD (<10 $^{\text{-4}}\!)$ clinical response rate with I+V
 - Randomization phase: 1-year disease-free survival (DFS)* to evaluate if ibrutinib discontinuation in the setting of confirmed undetectable MRD with I+V allows for treatment holiday

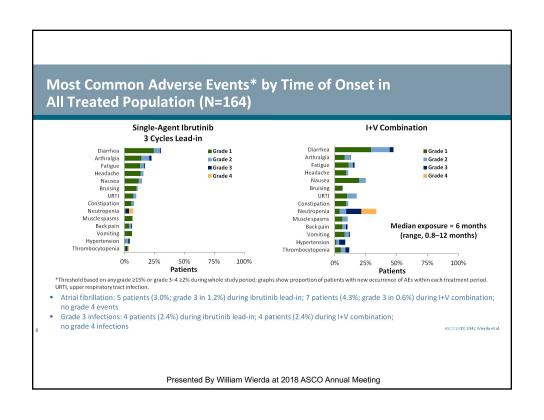
*Defined as continued undetectable MRD response without progression or death at least 1 year after randomization.

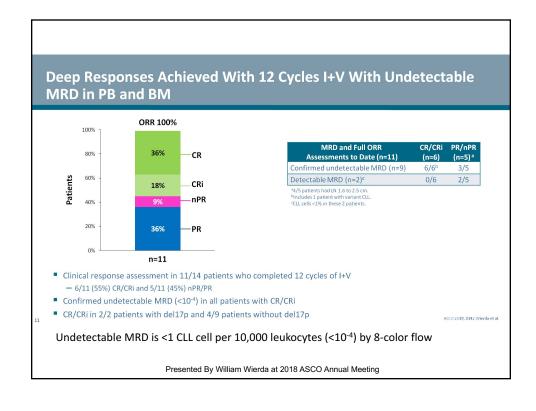
1. Burger JA, et al. N Engl J Med. 2015;373(25):2425-37; 2. Byrd JC, et al. N Engl J Med. 2013;369(1):32-42; 3. Byrd JC, et al. Bload. 2015;125(16):2497-506; 4. Cervanter-Gomez F, et al. Clin Cancer Res. 2015;21(16):3705-15; 5. Deng.), et al. Leukemia, 2017;31(10):2075-84; 6. Tam CS, et al. N Engl J Med. 2018;378(13):1211-25; 7. Olin II, et al. J Oncol Pharm Pract. 2017; Jan 1 [Epub ahead of print]; 8. VENCLEXTA™ (venetodax) prescribing information. North Chicago, IL: AbbVie, Inc. 2017; 9. Wierda WG, et al. in/CLL 2017. Abstract 106.

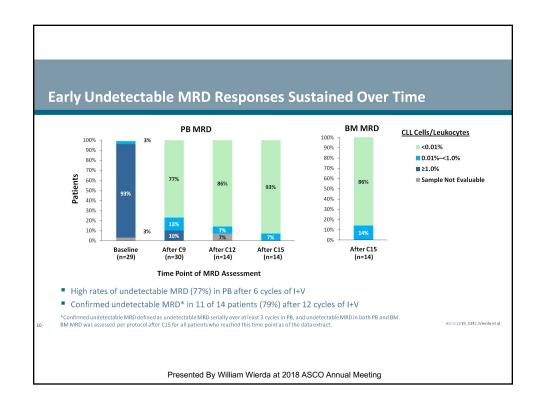
ASCO 2018; 1142

Presented By William Wierda at 2018 ASCO Annual Meeting









Abstract 7502 Conclusions

- The combination of ibrutinib and venetoclax induces high rates of response and MRD negative response in untreated CLL, including del(17p).
- Tumor debulking with ibrutinib lead-in phase decreased risk of TLS with venetoclax
- Study impact:
 - Both ibrutinib and venetoclax (after 1 prior Rx) are approved in CLL
 - Promising combination that merits further study
 - P3 trial evaluating I+V fixed duration in 1st line CLL

Abstract 8000

Once-weekly Versus Twice-weekly Carfilzomib Dosing in Patients with Relapsed and Refractory Multiple Myeloma: Results of the Randomized Phase 3 Study A.R.R.O.W.

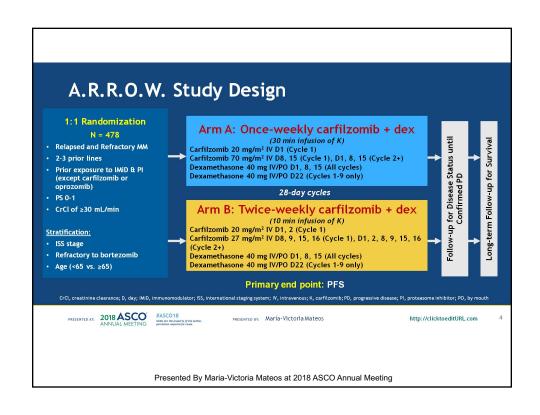


PRESENTED BY: María-Victoria Mateos

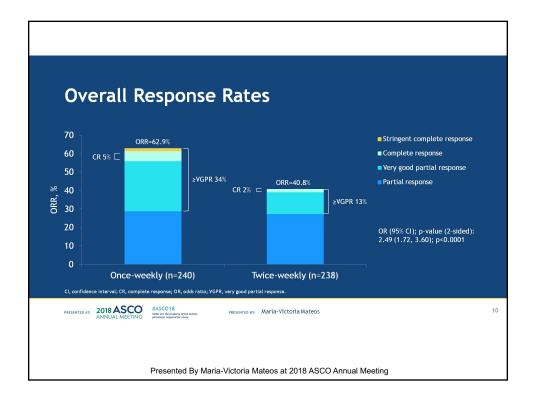
Presented By Maria-Victoria Mateos at 2018 ASCO Annual Meeting

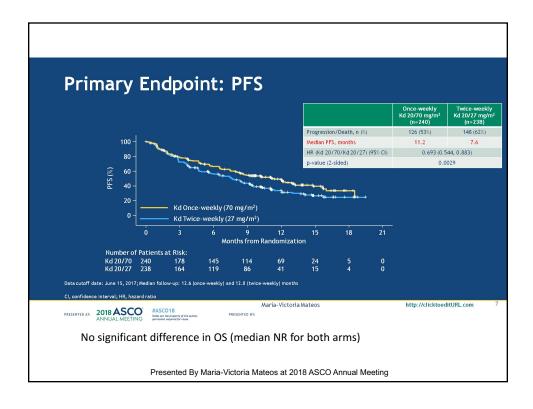
A.R.R.O.W. Study Background

- Carfilzomib approved for RRMM
 - Single agent: 20/27mg/m2 days 1, 2, 8, 9, 15 and
 16 on a 28d schedule
 - Kd: 20/56mg/m2 days 1, 2, 8, 9, 15 and 16 on a 28d schedule with Dex (ENDEAVOR)
 - KRd: 20/27mg/m2 days 1, 2, 8, 9, 15 and 16 on a
 28d schedule with Len and Dex (ASPIRE)
- CHAMPION-1 study in RRMM established MTD for weekly Carfilzomib at 70mg/m2



	Once-weekly Kd (n=238)		Twice-weekly Kd (n=235)	
	All grades	Grade ≥3	All grades	Grade ≥3
Anemia	26	18	32	18
Thrombocytopenia	13	7	9	7
Neutropenia	9	6	8	7
Nonhematologic TEAE % (≥20% in either arm), preferred term				
Pyrexia	23	1	16	2
Hypertension	21	6	20	5
Fatigue	20	5	20	2
Diarrhea	19	1	20	1
nsomnia	15	1	20	0





Abstract 8000 Conclusions

- Once-weekly Kd at 70mg/m2 improved PFS and ORR compared to twice-weekly Kd at 27mg/m2
- Overall safety profile was comparable
- Study impact:
 - Results published in Lancet Oncology 2018; 19(7): 953-64
 - A new convenient treatment option in RRMM that appears to be safe and effective
 - Overall, however, the optimal schedule and dose of carfilzomib remains unclear (e.g. 1 vs 2 times weekly, 27mg/m2 vs 56mg/m2 vs 70 mg/m2)

Abstract 8007

ABSTRACT 8007

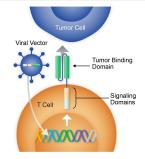
bb2121 Anti-BCMA CAR T Cell Therapy in Patients With Relapsed/Refractory Multiple Myeloma: Updated Results From a Multicenter Phase I Study

Noopur Raje, MD,¹ Jesus Berdeja, MD,² Yi Lin, MD, PhD,³ Nikhil Munshi, MD,⁴ David Siegel, MD, PhD,⁵ Michaela Liedtke, MD,[®] Sundar Jagannath, MD,² Deepu Madduri, MD,² Jacalyn Rosenblatt, MD,² Marcela Maus, MD, PhD,¹ Ashley Turka,⁵ Lyh Ping Lam, PharmD,³ Richard A. Morgan, PhD,³ M. Travis Quigley,® Monica Massaro, MPH,® Kristen Hege, MD,¹0 Fabio Petrocca, MD,³ and James N. Kochenderfer, MD¹¹

'Massachusetts General Hospital Cancer Center, Boston, MA; 'Sarah Cannon Research Institute and Tennessee Oncology, Nashville, TN; 'Mayo Clinic, Rochester, MN;
'Dana-Farber Cancer Institute, Boston, MA; 'Hackensack University Medical Center, Hackensack, NJ; 'Stanford University Medical Center, Falo Alto, CA; 'Mount Sinai Medical Center, New York, NY; 'PSeth Israel Beconcess Medical Center, Boston, MA; 'bluebird bio, Inc, Cambridge, "Pcélgene Corporation. San Francisco, CA;
'I'Experimental Transplantation and Immunology Branch, National Cancer Institute/National Institutes of Health, Bethesda, MD

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bb2121: AN OPTIMAL BCMA CAR T CELL DESIGN



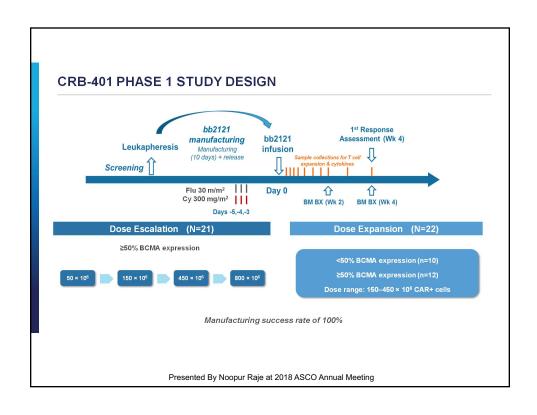


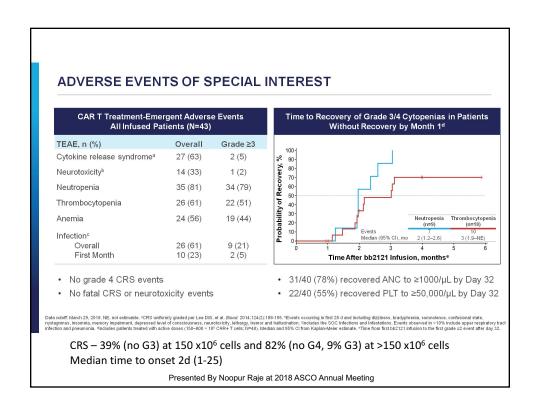
- Autologous T cells transduced with a lentiviral vector encoding a CAR specific for human BCMA
- State of the art lentiviral vector system
- Optimal 4-1BB costimulatory signaling domain: associated with less acute toxicity and more durable CAR T cell persistence than CD28 costimulatory domain¹

1. Ali SI, et al. Blood. 2016;128(13):1688-700

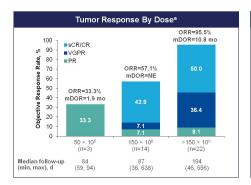
BCMA (B-cell maturation antigen) is highly expressed in MM and is not expressed in normal human tissues except for plasma cells.

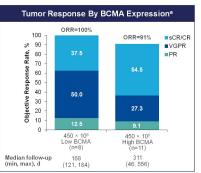
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TUMOR RESPONSE: DOSE-RELATED; INDEPENDENT OF TUMOR BCMA EXPRESSION





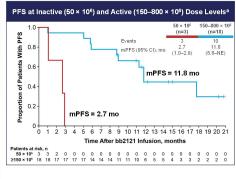
Data cutoff: March 29, 2018. CR. complete response; mDOR, median duration of response; ORR, objective response rate, PD, progressive disease; PR, partial response; sCR, stringent CR; VGPR, very good partial response. Patients with s2 months of response data or PD/death within <2 months. ORR is defined as attaining sCR, CR, VGPR, or PR, including confirmed and unconfirmed responses. Low BCMAI is 540% bone marrow/plasma celle expression of BCMAI, high SCHAI is defined as 250%.

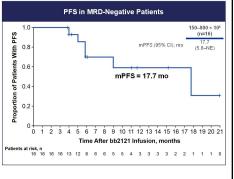
MRD-evaluable responders (n=16) - 100% were MRD-neg (< 1 x 10⁻⁴ by NGS)

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PROGRESSION-FREE SURVIVAL

- mPFS of 11.8 months at active doses (≥150 × 106 CAR+ T cells) in 18 subjects in dose escalation phase
- mPFS of 17.7 months in 16 responding subjects who are MRD-negative





Data cutoff: March 29, 2018. Median and 95% CI from Kaplan-Meier estimate. NE, not estimable. *PFS in dose escalation cohor

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Abstract 8007 Conclusions

- bb2121 at active doses (≥150 x 10⁶ CAR T-cells) induces deep and durable responses in heavily pretreated RRMM
- Tolerable safety profile with mostly G1/2 CRS and infrequent tocilizumab and steroid use
- Study impact:
 - FDA breakthrough designation for RRMM 11/2017
 - Anti-CD19 CAR T-cells are approved for R/R aggressive
 B-cell NHL and R/R B-ALL, and this study shows that a
 CAR T-cell platform for MM is also feasible and effective

Summary and Take Home Points

- Ivosidenib is an oral mIDH1 inhibitor and is a new standard of care for R/R IDH1-mutated AML. IDH-DS is a possible dangerous side effect.
- Venetoclax plus HMA has significant activity in elderly AML and may ultimately become the standard of care for older unfit AML.
 Management is very different from standard HMA monotherapy.
- The combination of ibrutinib plus venetoclax is highly active and induces a high rate of MRD negative responses in 1st line CLL. The regimen has potential to become a standard regimen for CLL.
- Convenient once weekly carfilzomib 70mg/m2 dosing plus dex appears safe and effective in RRMM and represents a new treatment option. The optimal dose and schedule of carfilzomib remains unclear.
- Anti-BCMA CAR T-cell therapy has a tolerable safety profile and is effective in RRMM, and may ultimately join the list of approved CAR T-cell therapies.

Questions? bajonas@ucdavis.edu





Other Abstracts of Potential Interest

- Abstract 7001: Early HMA for low risk MDS
- Abstract 7002: Bosutinib vs imatinib first line for CML
- Abstract 7003: Long-term TFR after second-line nilotinib discontinuation
- Abstract 7004: moxetumomab pasudotox for R/R hairy cell leukemia
- Abstract 8003: ibrutinib/rituximab vs placebo/rituximab in R/R WM
- Abstracts 8015, 8017, 8022 and 8032: carfilzomib schedule and dosing

- Abstract 8025: autotransplant in MM feasible in ages 75+
- Abstract 7500: lenaidomide plus rituximab vs chemo plus rituximab followed by rituximab maintenance for untreated follicular lymphoma
- Abstract 7501: acalabrutinib for untreated and R/R WM
- Abstract 7504: anti-CD47 plus rituximab for R/R NHL
- Abstract 7508: High rates and durability of MRD- with venetoclax plus rituximab in R/R CLL
- Abstract 7515: Rituximab maintenance after BR in MZL