



Update on BTK Inhibitor Zanubrutinib (BGB-3111) and the Clinical Development Program

December 9, 2017

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Agenda

- Welcome and Introduction, John Oyler, CEO and Dr. Jane Huang, CMO for Hematology, BeiGene
- ASH 2017 Data Review by Dr. Constantine Tam:
 - Abstract # 152: Safety and Activity of the Highly Specific BTK Inhibitor BGB-3111 in Patients with Indolent and Aggressive Non-Hodgkin's Lymphoma
 - Abstract # 1745: BGB-3111 in Combination with Obinutuzumab in Patients with Chronic Lymphocytic Leukemia and Follicular Lymphoma
 - Abstract # 4057: Safety and Activity of the Highly Specific BTK Inhibitor BGB-3111 in Combination with the PD-1 Inhibitor BGB-A317 in Patients with B-Cell Lymphoid Malignancies
- Zanubrutinib Development Program, Dr. Eric Hedrick, Chief Advisor, BeiGene
- Q&A with Dr. Christian Buske, Dr. Judith Trotman, Dr. Constantine Tam, Dr. Jane Huang, and Dr. Eric Hedrick



Introduction to BeiGene

Global oncology company born and initially raised in China with commitment to science and quality for China and the world

- Dramatic reform at CFDA has opened China to global trials
 - New access to 20%+ of world's cancer patients
 - Strategically important for global oncology development, timing & Asian prevalent cancers
 - But very few have ability to operate effectively in China
- BeiGene
 - Has built a unique, world-class global clinical oncology organization of 300+ with experience and capabilities to operate in China for global and vice versa
 - Team: US (150+); China (140+); AU (10+)
 - Over 30 oncology developers from Genentech
 - Internally developed *three late-stage clinical assets*, each with demonstrated proof-of-concept and potentially differentiated profile
 - Zanubrutinib (BGB-3111), potentially best-in-class BTKi, in pivotal trials globally and in China
 - Tislelizumab (BGB-A317), PD-1 mAb, in pivotal trials in China and recently partnered with Celgene to accelerate late-stage global development
 - **Pamiparib (BGB-290)**, PARPi, entering late-stage development

Is commercializing Abraxane, Revlimid, and Vidaza in China

Introduction to Zanubrutinib

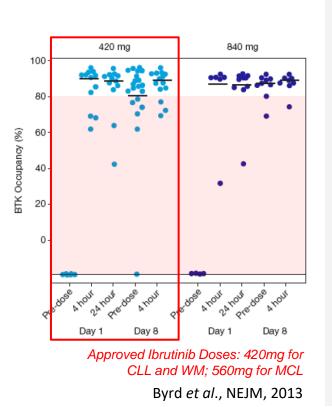
- Bruton's tyrosine kinase (BTK) plays a critical role in B-cell receptor signaling, which mediates B-cell proliferation, migration, and adhesion¹⁻³
 - The BCR pathway is an established therapeutic target in multiple subtypes of non-Hodgkin's lymphoma (NHL)^{4,5}
- Based on preclinical data, zanubrutinib was shown to be a potent, highly specific, and irreversible BTK inhibitor, with greater selectivity for BTK vs. other TEC- and EGFR-family kinases and demonstrates favorable pharmacokinetic and pharmacodynamic properties
- Zanubrutinib achieved complete and sustained BTK occupancy in peripheral blood mononuclear cells and lymph nodes in patients treated at 160 mg BID in this Phase 1 trial⁶



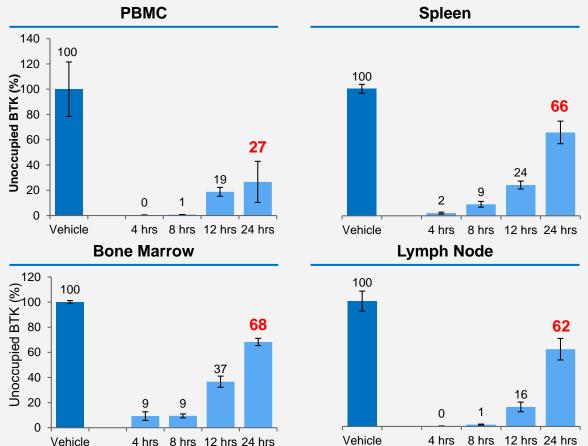
Ibrutinib: Target Inhibition Appears Incomplete and Compartment-Dependent

Clinical data show borderline target inhibition by ibrutinib in the blood at approved dose

Ibrutinib Clinical Data in Blood

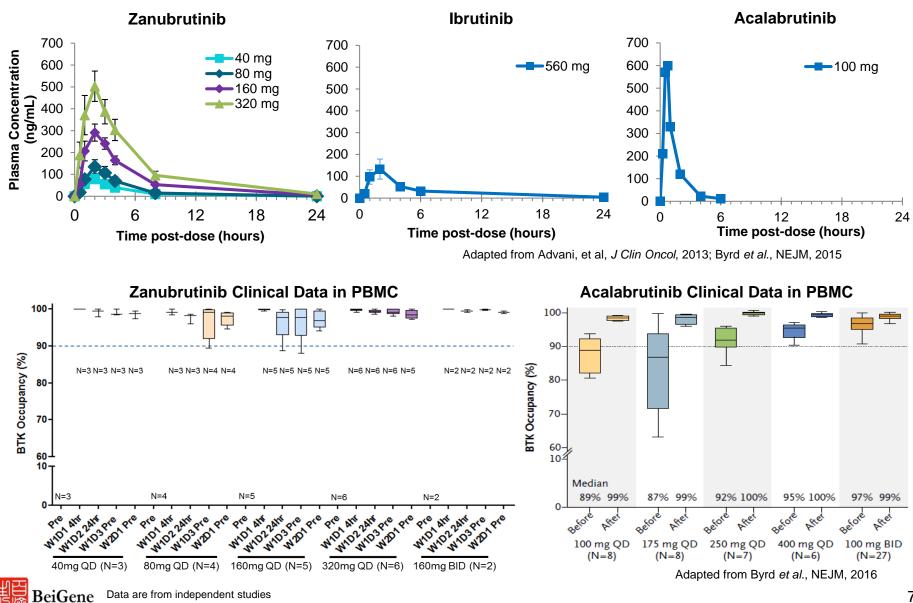


Preclinical models* show significant recovery of target occupancy in disease relevant tissues for ibrutinib



BeiGene Note: PBM

Zanubrutinib: PK and Target Occupancy



Source: Tam et al., ASH, 2015; Byrd et al., NEJM, 2016; Lannutti et al., AACR, 2015,

Zanubrutinib: Highly Potent and Selective BTK Inhibitor

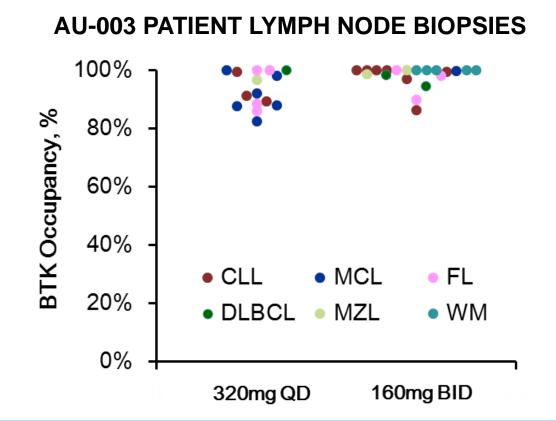
In Preclinical Studies, Equipotent against BTK compared to ibrutinib Higher selectivity vs EGFR, ITK, JAK3, HER2 and TEC

Targets	Assays	Ibrutinib IC ₅₀ (nM)	Zanubrutinib IC ₅₀ (nM)	Ratio (Zanubrutinib:Ibrutinib)
	BTK-pY223 Cellular Assay	3.5	1.8	0.5
ВТК	Rec-1 Proliferation	0.34	0.36	1.1
DIN	BTK Occupation Cellular Assay	2.3	2.2	1.0
	BTK Biochemical Assay	0.20	0.22	1.1
EGFR	p-EGFR HTRF Cellular Assay	101	606	6.0
EGFK	A431 Proliferation	323	3210	9.9
	ITK Occupancy Cellular Assay	189	3265	17
ІТК	p-PLC _{y1} Cellular Assay	77	3433	45
IIK	IL-2 Production Cellular Assay	260	2536	9.8
	ITK Biochemical Assay	0.9	30	33
JAK3	JAK3 Biochemical Assay	3.9	200	51
HER2	HER2 Biochemical Assay	9.4	661	70
TEC	TEC Biochemical Assay	0.8	1.9	2.4



BeiGene BTK, Bruton's tyrosine kinase; EGFR, epidermal growth factor receptor; IC50, drug concentration causing 50% inhibition of the desired activity; ITK, interleukin-2 inducible T-cell kinase; JAK3, Janus kinase 3.

Zanubrutinib: Sustainable, Near-Complete Target Inhibition in Lymph Nodes



Paired lymph node biopsies were collected during screening and pre-dose on day 3

- Median trough occupancy: 100% (160mg BID) vs 94% (320mg QD), p=0.002
- Proportion ≥90% trough occupancy: 94% (160mg BID) vs 58% (320mg QD), p=0.027

Dr. Constantine Tam

Disease Group Lead for Low Grade Lymphoma and Chronic Lymphocytic Leukemia at Peter MacCallum Cancer Centre, Director of Haematology at St. Vincent's Hospital, Australia

- Leads the Low Grade Lymphoma and CLL programs at Peter MacCallum Cancer Centre
- Leukemia Fellowship at MD Anderson
- Recipient of Herman Fellowship in Translational Cancer Research, University of Melbourne
- Principal Investigator of first global study to combine ibrutinib and venetoclax
- Published 139 peer-review articles





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Zanubrutinib Development Program, Dr. Eric Hedrick, Chief Advisor, BeiGene

Q&A with Dr. Christian Buske, Dr. Judith Trotman, Dr. Constantine Tam, Dr. Jane Huang, and Dr. Eric Hedrick



Safety and Activity of the Highly Specific BTK Inhibitor Zanubrutinib (BGB-3111) in Patients with Indolent and Aggressive Non-Hodgkin's Lymphoma

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Trial Design: First-in-Human, Open-label, Multicenter, Phase 1b Study of Zanubrutinib in Patients With B-cell Malignancies

DOSE	ESC	ALATION			D	DSE E	XPANSIO	N
Do	60	Enrolled (indolent,	RP2D		Population	RP2D Dose	Disease	Planned
40 mg	QD	aggressive) 4 (0, 1)	320 mg		R/R	BID, QD	MCL, MZL, FL, GCB DLBCL	40
80 mg	QD	5 (0, 1)	QD	→	R/R	BID	Non-GCB DLBCL	40
160 mg	QD	6 (0, 2)	or		R/R	BID	CLL/SLL	70
320 mg	QD	6 (0, 1)	160 mg		R/R	BID	WM	20
160 mg	BID	4 (0, 2)	BID		R/R	QD	CLL/SLL	20
					R/R, TN	BID, QD	WM	50
Eliaibi					R/R	BID, QD	MCL	20
Eligibil					TN	BID, QD	CLL/SLL	20
		Drganization-define	•	су	TN	BID, QD	MCL	20
No available higher priority treatment				R/R	BID, QD	HCL	10	
 Eastern Cooperative Oncology Group 0-2 ANC >1,000/µL, platelets >100,000/µL* 				R/R	BID	iNHL	40	
		al and hepatic functi	•		R/R	BID	Richter	15

• No significant cardiac disease[†]

*Growth factor/transfusion allowed. †Anti-coagulation allowed.

BID, twice daily; CLL/SLL, chronic lymphocytic leukemia/small lymphocytic lymphoma;

DLBCL, diffuse large B-cell lymphoma; FL, follicular lymphoma; GCB, germinal center B-cell–like; HCL, hairy cell leukemia; iNHL, indolent non-Hodgkin lymphoma; MCL, mantle cell lymphoma; MZL, marginal zone lymphoma; Pop, population; RP2D, recommended phase 2 dose; QD, once daily; WM, Waldenström macroglobulinemia.

R/R or

intolerant

BID

15

Transform.

BTK-R/R WM

Patient Characteristics

Characteristic	Indolent (FL, MZL) n = 34	Aggressive (DLBCL, MCL) n = 65	Total N = 99
Age, years, median (range)	65 (41-79)	70 (20-86)	68 (20-86)
ECOG Performance Status, (%) 0 1 2	16 (47) 15 (44) 3 (9)	28 (43) 29 (45) 8 (12)	44 (44) 44 (44) 11 (11)
Prior treatment status Treatment-naïve, n (%) Relapsed/refractory, n (%) Number of prior therapies, median (range)	0 34 (100) 2 (1-8)	2 (3) 63 (97) 2 (1-10)	2 (2) 97 (98) 2 (1-10)
Bulky disease,* n (%)	0	3 (5)	3 (3)
Stage at Study Entry (per disease type) I II III IV	2 (6) 3 (9) 7 (21) 22 (65)	2 (3) 7 (11) 12 (18) 43 (66)	4 (4) 10 (10) 19 (19) 65 (66)
LDH at baseline, median (range) in µkat/L	4.1 (2.2-23.1)	4.4 (2-77.6)	4.2 (2-77.6)
DLBCL: GCB vs. non-GCB ⁺	-	4 vs. 23	-

* Any lymph node >10 cm in maximum diameter. [†]Defined by Hans algorithm.

14 DLBCL, diffuse large B-cell lymphoma; ECOG, Eastern Cooperative Oncology Group; GCB, germinal center B-cell like; LDH, lactate dehydrogenase; LN, lesion.

Most Frequent Adverse Events

Adverse Event	verse Event Indolent (FL, MZL) n = 34 All Grade Grade 3-5 n (%) n (%)		Adverse Event	Aggressive (DLBCL, MCL) n = 65	
Adverse Event			All Grade n (%)	Grade 3-5 n (%)	
Petechiae/purpura/ contusion	8 (24)	0	Petechiae/purpura/ contusion	16 (25)	0
Upper respiratory tract infection	7 (21)	0	Diarrhea	15 (23)	1 (2)
Nausea	6 (18)	1 (3)	Constipation	14 (22)	0
Pyrexia	5 (15)	0	Fatigue	12 (18)	0
Anemia	4 (12)	3 (9)	Upper respiratory tract infection	12 (18)	1 (2)
Headache	4 (12)	0	Anemia	11 (17)	7 (11)
Rash	4 (12)	0	Cough	10 (15)	0
Urinary tract infection	3 (9)	2 (6)	Pyrexia	10 (15)	2 (3)
Abdominal pain	3 (9)	2* (6)	Thrombocytopenia	10 (15)	6 (9)
Neutropenia	3 (9)	3 (9)	Neutropenia	8 (12)	6 (9)
			Pneumonia	6 (9)	4** (6)

*1 Grade 5 event, **1 Grade 5 event, both cases are in the context of disease progression and considered not treatment-related by investigators

Selected Adverse Events

Event, n (%)	Indolent (FL, MZL) n = 34	Aggressive (DLBCL, MCL) n = 65
Patients with ≥1 AE Grade ≥3	13 (38)	39 (60)
Patients with ≥1 serious AE	11 (32)	26 (40)
Events leading to treatment discontinuation	2 (6)	8 (12)
Fatal AE	1* (3)	6† (9)
AE of special interest		
Petechiae/purpura/contusion	8 (24)	16 (25)
Diarrhea	2 (6)	15 (23)
Hypertension	1 (3)	5 (8)
Severe hemorrhage [‡]	1 (3)	2 (3)
Atrial fibrillation	0	2 (3)

*Abdominal pain in the context of progressive disease.

[†]n=2 pneumonia, n=1 congestive cardiac failure, cerebral infarction, multi-organ failure, septic shock, unknown causes. Pneumonia and septic shock from same patient. All in the context of progressive disease except for cardiac failure and cerebral infarction

 ‡ \geq G3: gastrointestinal hemorrhage, hematuria, renal hematoma.

Indolent Lymphoma: Best Responses

Response (based on CT for majority of pts)	FL n = 17	MZL n = 9	Indolent Total N = 26
Median efficacy follow-up, mo (range)	7.8 (1.9-22.3)	7 (2.8-22)	7.5 (1.9-22.3)
Best Response, n (%) ORR CR PR SD PD NE*	7 (41) 3 (18) 4 (24) 7 (41) 1 (6) 2 (12)	7 (78) 0 7 (78) 2 (22) 0 0	14 (54) 3 (12) 11 (42) 9 (35) 1 (4) 2 (8)

CR, complete response; NE, not evaluable; ORR, overall response rate; PD, progressive disease; PR, partial response; PR-L, partial response with lymphocytosis; SD, stable disease.

* Both due to withdrawal of consent.

Aggressive Lymphoma: Best Responses

Response (based on CT for majority of pts)	DLBCL* n = 26	MCL*** n = 32	Aggressive Total N = 58
Median efficacy follow-up, mo (range)	4.2 (0.1-24)	9.5 (0.8-31.9)	5.6 (0.1-31.9)
Best Response, n (%) ORR CR PR SD PD NE**	8 (31) 4 (15) 4 (15) 4 (15) 13 (50) 1 (4)	28 (88) 8 (25) 20 (63) 1 (3) 1 (3) 2 (6)	36 (62) 12 (21) 24 (41) 5 (9) 14 (24) 3 (5)

CR, complete response; NE, not evaluable; ORR, overall response rate; PD, progressive disease; PR, partial response; PR-L, partial response with lymphocytosis; SD, stable disease.

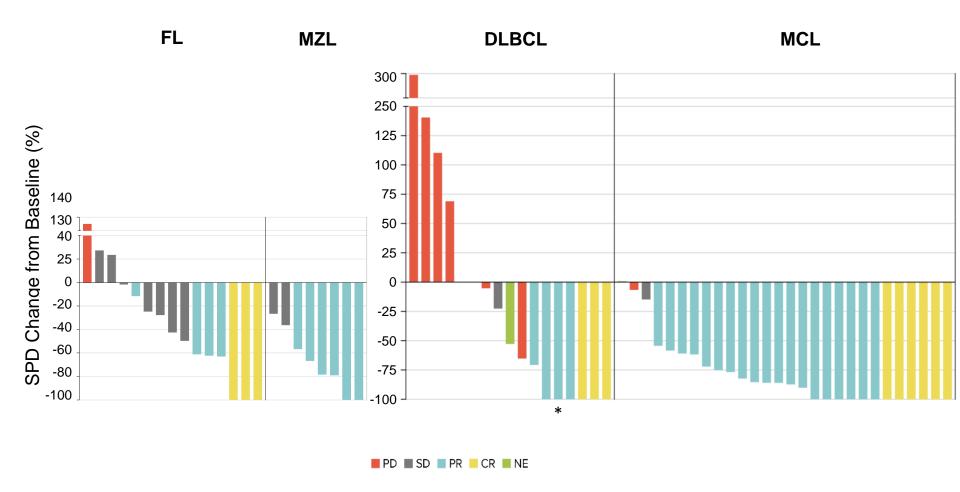
*ORR was 25% (1 of 4) and 32% (7 of 22) for GCB (n=4) and non-GCB, respectively.

** n=1 DLBCL withdrew consent, n=2 MCL off study for adverse event before response assessment

***ORR in patients treated with at least 320 mg/d : 93% with a 27% CR rate

PET scanning not mandated for trial

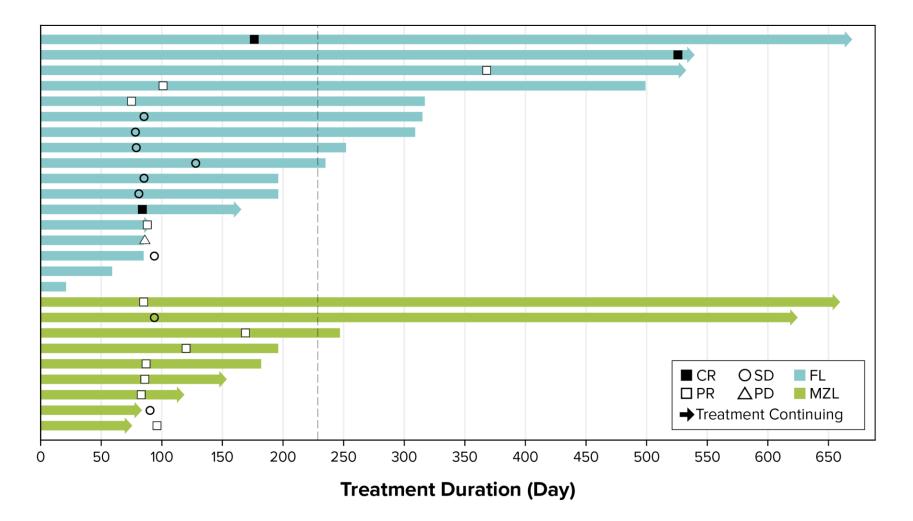
Lymph Node Responses



*Patient had GBC-DLBCL.

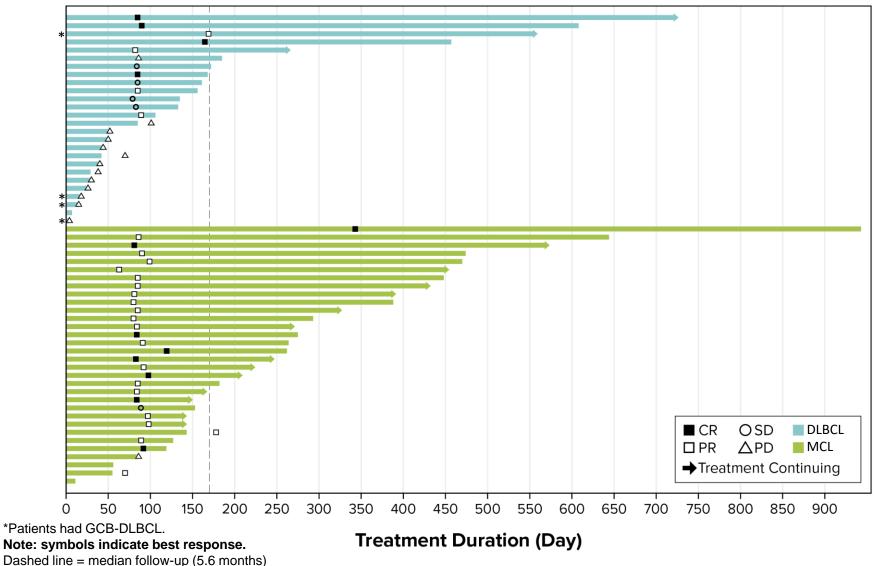
Note: 1 subject had no measurable lesions at baseline, 13 subjects did not have a post baseline scan in indolent lymphoma cohort; 4 subjects had no measurable lesions at baseline, 9 subjects did not have a post baseline scan in the aggressive lymphoma cohort. SPD, sum of the products of lymph node diameters by CT scan.

Treatment Duration: Indolent Lymphoma (FL, MZL)



Note: symbols indicate best response. Dashed line = median follow-up (7.5 months)

Treatment Duration: Aggressive Lymphoma (DLBCL, MCL)



Conclusions

- Zanubrutinib (BGB-3111) was well tolerated in multiple NHL subtypes
 - Adverse events led to discontinuation in 10% of patients overall
- Encouraging activity across multiple aggressive and indolent NHL subtypes
 - ORR of 88% (28/32 pts) in MCL and 78% (7/9 pts) in MZL
 - Durable response observed across a variety of histologies
- Supports ongoing development of zanubrutinib
 - Monotherapy: in registrational trials in WM and CLL
 - Combination: in registrational trial in combination with obinutuzumab
 - Additional registrational trials planned

Summary: Favorable Responses on Zanubrutinib Monotherapy Across Tumor Types

- Data presented include a total of 192 patients at 14-ICML and ASH 2017
- Encouraging activities across tumor types suggest that zanubrutinib is a highly active BTK inhibitor

Zanubrutinib	TN CLL	R/R CLL	WM	MZL	MCL	FL	DLBCL
Source	14-ICML	14-ICML	14-ICML	ASH17	ASH17	ASH17	ASH17
n	16	50	42	9	32	17	26
Follow-up (med)	7.6 mo	14.0 mo	12.3 mo	7.0 mo	9.5 mo	7.8 mo	4.2 mo
Prior Lines (med)	0	2 (1-7)	1 (1-8)	2 (1-8)	2 (1-10)	2 (1-8)	2 (1-10)
ORR	100%	92%	90%	78%	88%	41%	31%
CR	6%	2%	0	0	25%	18%	15%
VGPR			43%				
PR/PR-L	94%	90%	33%	78%	63%	24%	15%
MR			14%				

Zanubrutinib (BGB-3111) in Combination with Obinutuzumab in Patients with Chronic Lymphocytic Leukemia and Follicular Lymphoma

Constantine S. Tam¹, Hang Quach¹, Andrew Nicol², Xavier Badoux³, Hannah Rose⁴, H. Miles Prince¹, Michael F. Leahy⁵, Richard Eek⁶, Nicholas Wickham⁷, Sushrut S. Patil⁸, Jane Huang⁹, Xiaoping Zhang⁹, Lai Wang⁹, Eric Hedrick⁹, William Novotny⁹, and Ian W. Flinn¹⁰

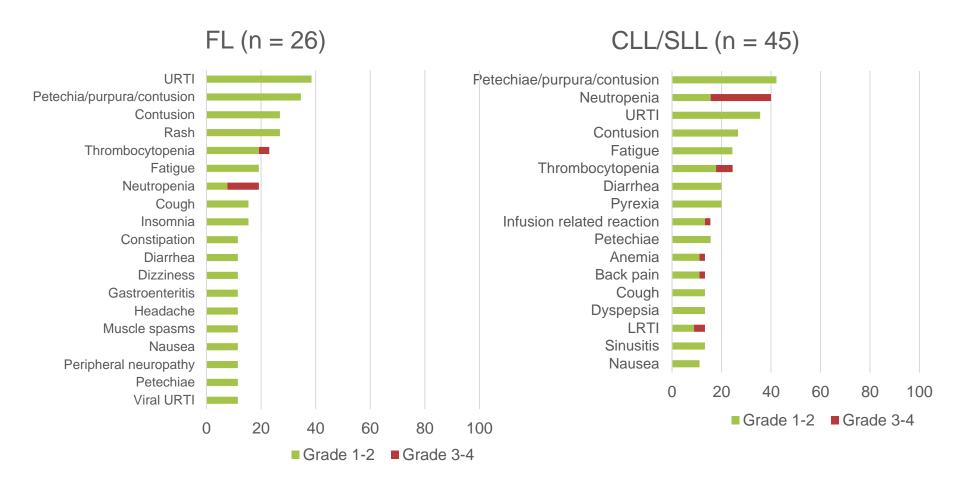
¹Peter MacCallum Cancer Centre & St. Vincent's Hospital, Melbourne, Australia; ²Brisbane Clinic for Lymphoma, Myeloma, and Leukaemia, Brisbane, Australia; ³St. George Hospital, Sydney, Australia; ⁴University Hospital, Geelong, Australia; ⁵Royal Perth Hospital, Perth, Australia; ⁶Border Medical Oncology, Wodonga, Australia; ⁷Ashford Cancer Centre Research, Adelaide, Australia; ⁸The Alfred Hospital, Melbourne, Australia; ⁹BeiGene, San Mateo, CA; ¹⁰Tennessee Oncology PLLC, Nashville, TN

Patient and Disease Characteristics

Characteristic	CLL/SLL (n = 45)	FL (n = 26)
Age, years, median (range)	68 (38-82)	60 (41-86)
ECOG performance status, (%) 0 1 2	20 (44.4) 24 (53.3) 1 (2.2)	19 (73.1) 6 (23.1) 1 (3.8)
Median follow-up, mo (range)	11.8 (6.0-19.5)	8.6 (0.3-19.7)
Prior treatment status Treatment-naïve, n (%) Relapsed/refractory, n (%) Number of prior therapies, median (range)	20 (44.4) 25 (55.6) 1 (1-4)	0 26 (100) 9 (34.6) 2 (1-7)
Bulky Disease*, n (%)	0	2 (7.7)
Molecular risk factors (n = 37), n (%) del17p/p53mut del11q Unmutated <i>IGHV</i> Complex karyotype	6 (16.2) 6 (16.2) 19 (51.4) 7 (18.9)	N/A N/A N/A N/A

* Any lymph node >10 cm in maximum diameter.

Most Common Adverse Events Regardless of Causality



Safety Summary

Event, n (%)	CLL/SLL (n = 45)	FL (n = 26)
Patients with \geq 1 Grade \geq 3 AE	26 (57.8)	7 (26.9)
Patients with ≥ 1 SAE	15 (33.3)	5 (19.2)
Patients with events leading to treatment discontinuation	1 (2.2)*	0
Patients with fatal AE	1 (2.2)*	0

* Patient with a history of squamous cell carcinoma discontinued and died due to squamous cell carcinoma. This case is considered not treatment-related by investigators.

AE, adverse event; SAE, serious adverse event.

Adverse Events of Special Interest						
Event $p(0/)$	CLL/SLL	(n = 45)	FL (n = 26)			
Event, n (%)	All Grade	Grade ≥ 3	All Grade	Grade ≥ 3		
Diarrhea	9 (20.0)	0	3 (11.5)	0		
Serious hemorrhage*	0	0	0	0		
Atrial fibrillation	0	0	0	0		
Hypertension	3 (6.7)	1 (2.2)	1 (3.8)	1 (3.8)		
Infusion-related reactions	11 (24.4)	1 (2.2)	2 (7.7)	0		

* \geq Grade 3 hemorrhage, or central nervous system hemorrhage of any grade.

Disease Response

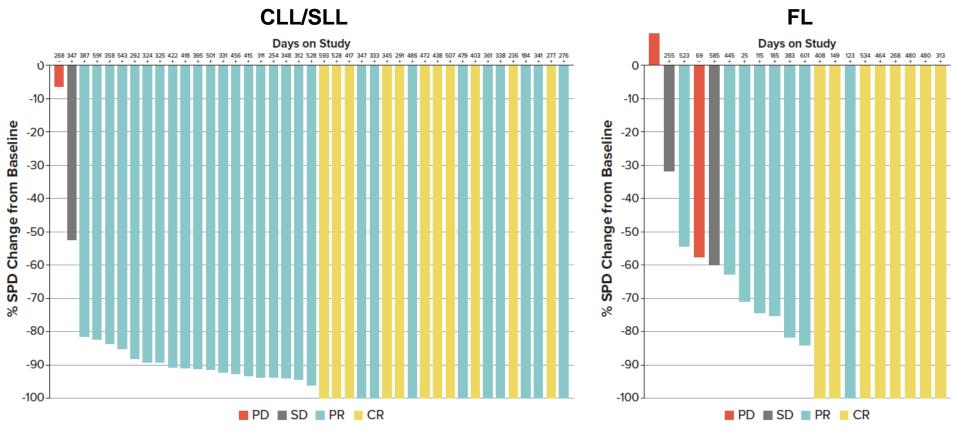
	TN CLL/SLL (n = 20)	R/R CLL/SLL (n = 25)	FL (n = 21)
Median follow-up, mo (range)	11.4 (6.0-17.3)	12.7 (7.9-19.5)	12.1 (0.8-19.7)
Best Response, n (%)			
ORR	19 (95.0)	23 (92.0)	16 (76.2)
CR	7 (35.0)	5 (20.0)	8 (38.1)
PR	12 (60.0)	18 (72.0)	8 (38.1)
SD	1 (5.0)	1 (4.0)	2 (10.0)
PD	0	1 (4.0)	3 (15.0)

CLL/SLL, chronic lymphocytic leukemia/small lymphocytic lymphoma; CR, complete response; FL, follicular lymphoma; ORR, overall response rate; PD, progressive disease; PR, partial response; PR-L, partial response with lymphocytosis; R/R, relapsed/refractory; SD, stable disease; TN, treatment-naïve.

ORR in patients with high-risk CLL/SLL

- del17p/p53mut (n = 6): 83.3%
- del11q (n = 6): 100%
- Unmutated *IGHV* (n = 19): 94.7%

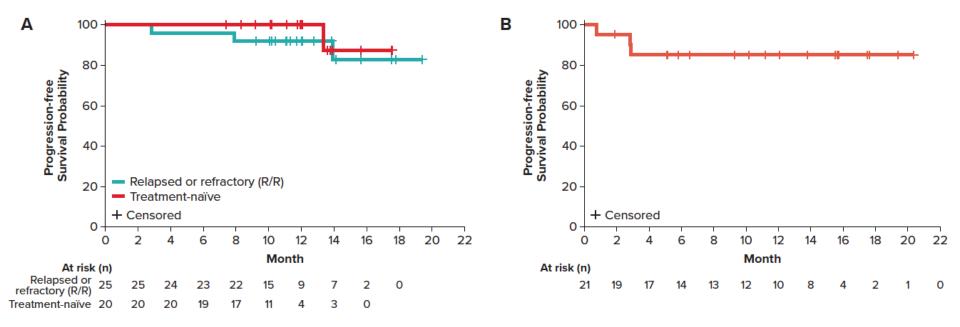
Maximum Lymph Node Response in Patients With CLL/SLL and FL



*Patients with no target lesions at baseline are not shown.

Progression-Free Survival

CLL/SLL



FOLLICULAR LYMPHOMA

Conclusions

- Updated results from the Phase 1b trial suggest that BTK inhibitor zanubrutinib (BGB-3111) and the anti-CD20 antibody obinutuzumab were generally well-tolerated when given in combination in patients with CLL/SLL and FL
- Compared to the expected rates with BTK-inhibitors or anti-CD20 antibodies alone:
 - CR rate in CLL/SLL was favorable
 - Frequency and depth of response (ORR and CR rate) in FL were favorable
- A pivotal randomized Phase 2 trial of the zanubrutinib + obinutuzumab combination in FL (≥2 prior therapies) is ongoing

Safety and Activity of BTK Inhibitor Zanubrutinib (BGB-3111) in Combination with the PD1 Inhibitor Tislelizumab (BGB-A317) in Patients with B-Cell Lymphoid Malignancies

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Safety and Activity of the Highly Specific BTK Inhibitor BGB-3111 in Combination with the PD-1 inhibitor BGB-A317 in Patients with B-cell lymphoid malignancies

Gavin Cull¹, Stephen Opat, FRACP, FRCPA², Judith Trotman, MBChB, FRACP, FRCPA^{3*}, James Hilger^{4*}, Xiaoping Zhang^{4*}, Shibao Feng, PhD^{4*}, Sunhee Ro, PhD^{4*}, Jane Huang, MD⁴ and Constantine S. Tam, MBBS (Hons), MD, FRACP, FRCPA⁵

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Session Name: 623. Mantle Cell, Follicular, and Other Indolent B-Cell Lymphoma — Clinical Studies: Poster III

Date: Monday, December 11, 2017

Presentation Time: 6:00 PM - 8:00 PM EST

Location: Georgia World Congress Center, Bldg A, Lvl 1, Hall A2

Agenda

- Welcome and Introduction, John Oyler, CEO and Dr. Jane Huang, CMO for Hematology, BeiGene
- ASH 2017 Data Review by Dr. Constantine Tam:
 - Abstract # 152: Safety and Activity of the Highly Specific BTK Inhibitor BGB-3111 in Patients with Indolent and Aggressive Non-Hodgkin's Lymphoma
 - Abstract # 1745: BGB-3111 in Combination with Obinutuzumab in Patients with Chronic Lymphocytic Leukemia and Follicular Lymphoma
 - Abstract # 4057: Safety and Activity of the Highly Specific BTK Inhibitor BGB-3111 in Combination with the PD-1 Inhibitor BGB-A317 in Patients with B-Cell Lymphoid Malignancies

Zanubrutinib Development Program, Dr. Eric Hedrick, Chief Advisor, BeiGene

Q&A with Dr. Christian Buske, Dr. Judith Trotman, Dr. Constantine Tam, Dr. Jane Huang, and Dr. Eric Hedrick

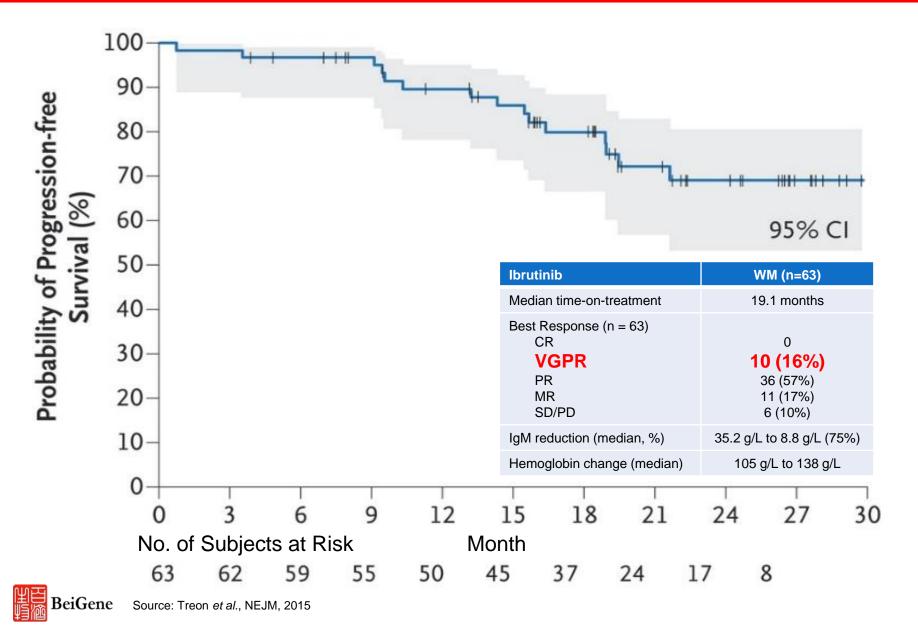


Zanubrutinib: Hypothesis, Results to Date, and Current Development Plans

- Pre-clinical data suggested pharmacological advantages over ibrutinib
 - Hypothesis Selectivity and exposure advantages may afford qualitative advantages, relative to ibrutinib, in disease response, as well as improvement in regard to safety and tolerability
- Clinical experience to date supports our hypothesis
 - Strong suggestion of better response depth in WM
 - Favorable response rate and durability and in WM, CLL (and across different histologies)
 - Paucity of treatment discontinuations for adverse events
 - Encouraging evolving data on rate of events of particular interest for BTKi therapy: atrial fibrillation, serious hemorrhage, and severe diarrhea
- Broad development program designed to establish zanubrutinib as a best-inclass BTK inhibitor
 - Head-to-head Phase 3 trial versus ibrutinib in WM ongoing, head-to-head Phase 3 in relapsed/refractory CLL planned

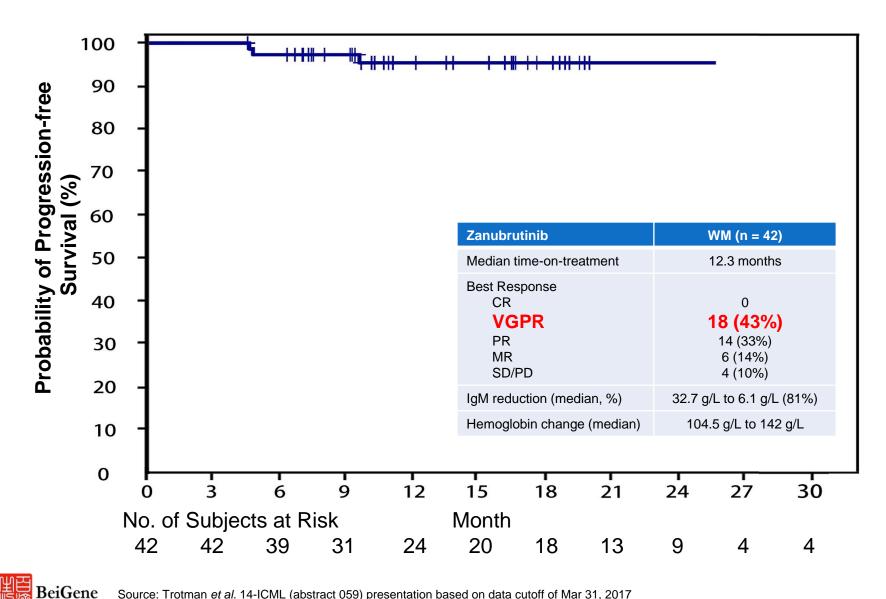


Ibrutinib in WM



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Zanubrutinib in WM



Source: Trotman et al. 14-ICML (abstract 059) presentation based on data cutoff of Mar 31, 2017

Ibrutinib in CLL

Relapsed/Refractory Treatment-Naive Burger JA et al. NEJM 2015 Byrd JC et al. NEJM 2013 Byrd JC et al. NEJM 2014 of Progression-free Survival 1.0 00 100 Ibrutinib 90 90 All patients 0.8-80 80 Ibrutinib 70-70 0.6-60-60. 50-50-Chloramb 0.4 40-40. 30-30-Probability Chlorambucil Ibrutinib Hazard ratio for progression 0.2-20 20 or death, 0.22 (95% CI, 0.15-0.32) 15.0 Median (mo) NR Ofatumumab 10-P<0.001 by log-rank test 10 Hazard ratio, 0.09 (95% CI, 0.04-0.17); P<0.00 0.0-0-0 15 3 6 9 12 0 15 0 6 9 12 15 18 21 2 0 10 20 25 30 3

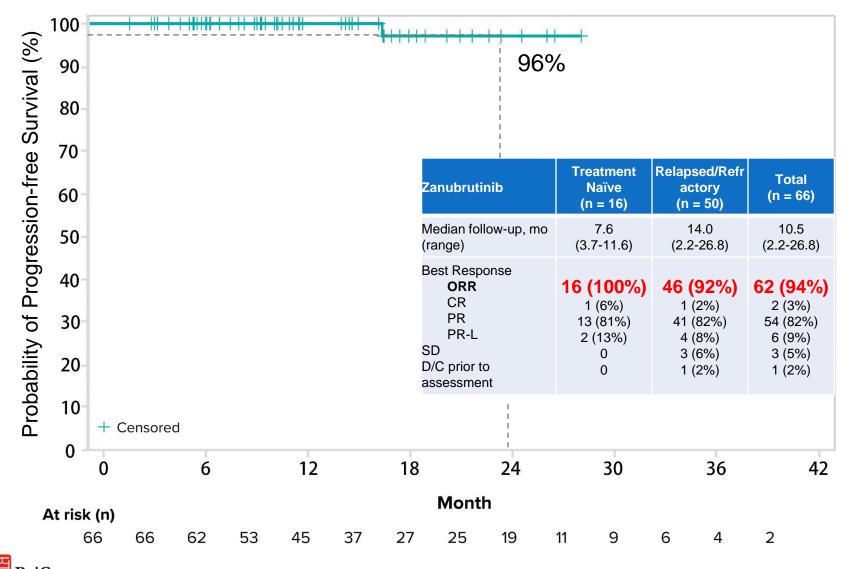
n = 136				
Median follow-up (months)	18.4			
ORR CR PR PR-L SD PD	117 (86%) 5 (4%) 105 (55%) 5 (4%) NR NR			

n=85					
Median follow-up (months)	20.9				
ORR CR PR PR-L SD PD	75 (88%) 2 (2%) 58 (68%) 15 (18%) NR NR				

n=195				
Median follow-up (months)	9.4			
ORR CR PR PR-L SD PD	117 (83%)* 4 (2%) 132 (68%) 40 (4%) 22 (11%) 2 (1%)			



Zanubrutinib in All CLL Patients: Response Rate and PFS



BeiGene Source: Seymour et al. 14-ICML 2017 (abstract 237) poster based on data cutoff of Mar 31, 2017

Activities of Zanubrutinib + Obinutuzumab Combination in FL

	Zanubrutinib & Obinutuzumab	Zanubrutinib	lbrutinib ¹	Obinutuzumab ²	ldelalisib ³
n	21	17	110	40	72
Population	Prior alkylator and CD20, mixed Rituxan-sensitive and –refractory	Median 2 prior lines of therapy, range 1-8	Prior alkylator and CD20, last response <12 months	Mixed Rituxan- sensitive and - refractory	Alkylator and Rituxan-refractory relapse
Follow-up (med)	8.6 mo	7.8 mo	27.7 mo	33.7 mo	NR
ORR	76%	41%	21%	50%	54%
CR	38%	18%	11%	18%	6%



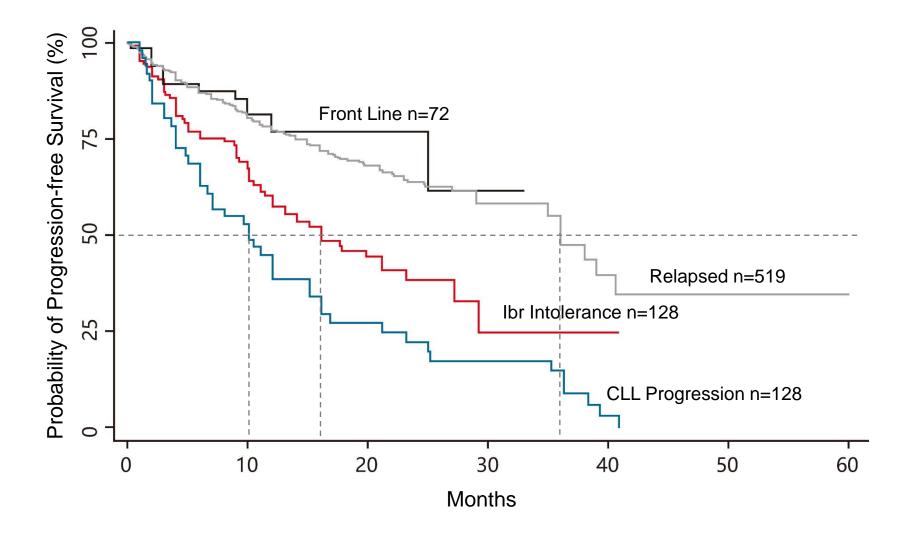
Ibrutinib: Frequency of Treatment Discontinuation in CLL

CLL	Treatment- Naïve (n=80)	Relapsed/ Refractory (n=536)	
Median Follow up	14.5 n	nonths	
Total Treatment D/C	19 (24%)	231 (43%)	
Toxicity/ Tolerability	12 (15%)	117 (22%)	
CLL Progression	3 (4%)	49 (9%)	
Transformation (RT or HD)	0	10 (2%)	
Death Unrelated to Treatment	1 (1%)	28 (5%)	
Physician or Patient Decision	2 (2%)	15 (3%)	
Transplant	0	8 (1.5%)	
Financial Concerns	0	1 (0.2%)	
Secondary Malignancy	1 (1%)	2 (0.5%)	

Approximately one-third of patients are off-treatment by 1.5 years. More frequently for toxicity or tolerability issues than disease progression or transformation



Ibrutinib: Treatment Discontinuation (All Causes) Compromises PFS in CLL





CLL	Treatment-Naïve (n=18)	Relapsed/ Refractory (n=51)		
Median Follow up	10.3 months			
Total Treatment D/C	0	2 (4%)		
Toxicity/ Tolerability	0 (0%)	1 (2%)		
CLL Progression	0 (0%)	0 (0%)		
Transformation (RT or HD)	0	1 (2%)		

Seymour, ICML 2017



Zanubrutinib Safety: Adverse Events of Interest Experience in 641 Patients

AE of Interest (All Causes)	Zanubrutinib (Including Pt Enrolled in Combo Studies)	AE of Interest (All Causes)	Zanubrutinib (Single Agent Only)
Patient Number	N = 641	Patient Number	N = 424
Mean Exposure Time	7.7 mo	Mean Exposure Time	8.1 mo
Atrial Fibrillation	1.7%	Diarrhea (All Gr)	14.2%
Serious Hemorrhage	1.9%	Diarrhea (Gr 3-5)	0.7%

Source: pooled safety analysis of ongoing zanubrutinib clinical trials, data cut-off September 2017, n=641

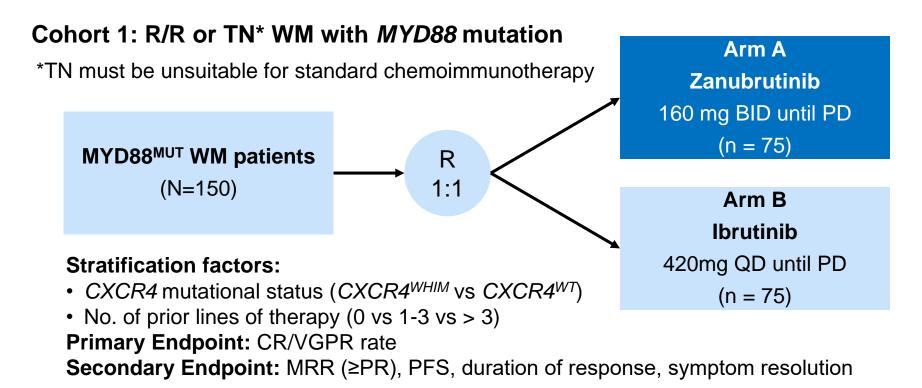




Zanubrutinib Clinical Development Program

Expanding Breadth of Indications and Best-in-Class Opportunities

BGB-3111-302: Waldenströms Phase 3 Trial Design

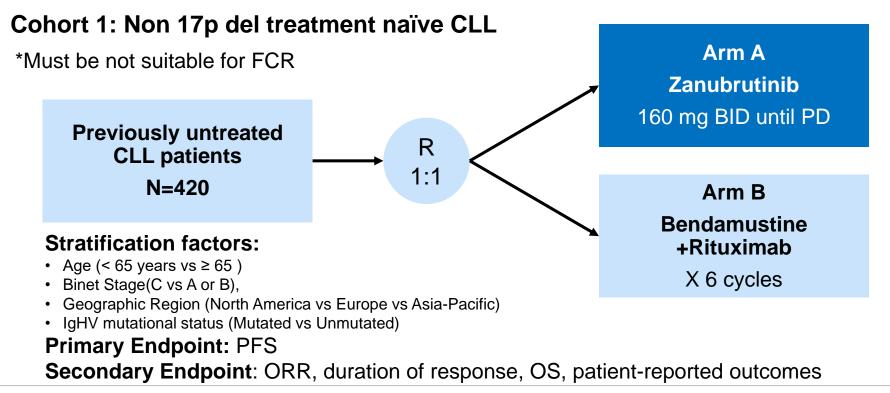


Cohort 2: WM with wild type MYD88; present in ~10% of enrolled patients

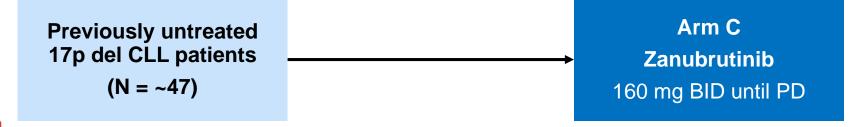


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BGB-3111-304: CLL Phase 3 Trial Design



Cohort 2: 17p del treatment naïve CLL

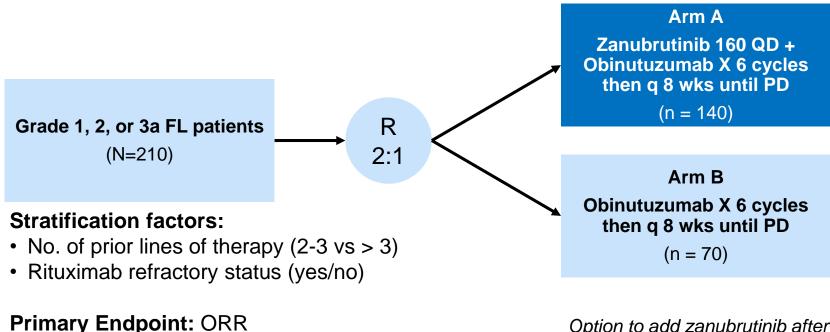




BGB-3111-212: Relapsed FL Phase 2 Trial Design

Relapsed/Refractory FL (Received ≥2 prior treatments*)

*Must have received prior treatment with rituximab and an alkylator; relapsed <12 months from end of last treatment OR Refractory to last treatment (no CR, no PR)



Secondary Endpoint: duration of responses, PFS, OS, time-to-response

Option to add zanubrutinib after 12 months if no response OR at PD

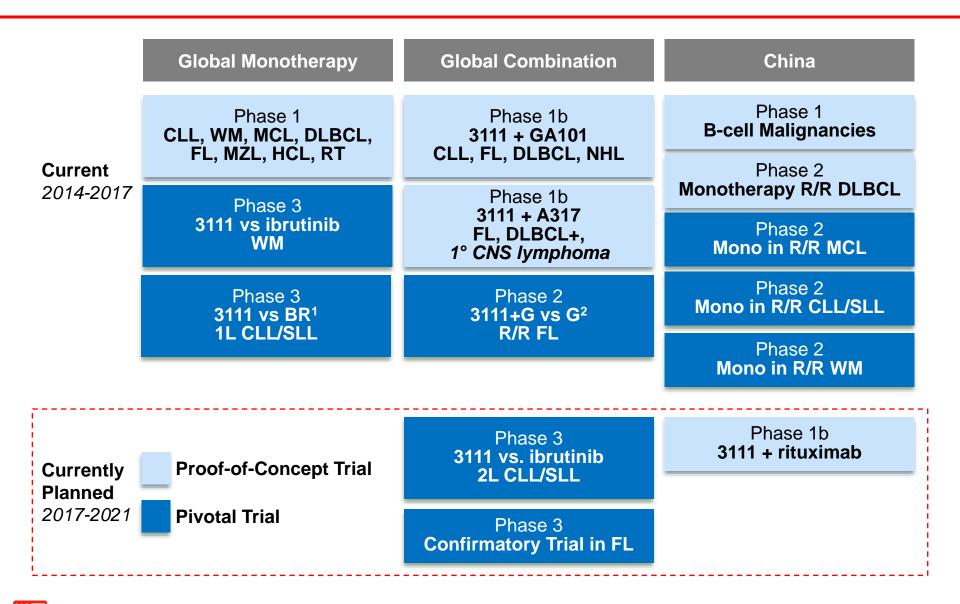


Planned Phase 3 Trial of Zanubrutinib vs Ibrutinib in R/R CLL

- A Phase 3 comparison of zanubrutinib versus ibrutinib in relapsed or refractory CLL is being planned to initiate in 2018
- Intent is to study a broad and representative relapsed or refractory population
- Design will be detailed at the time of trial initiation

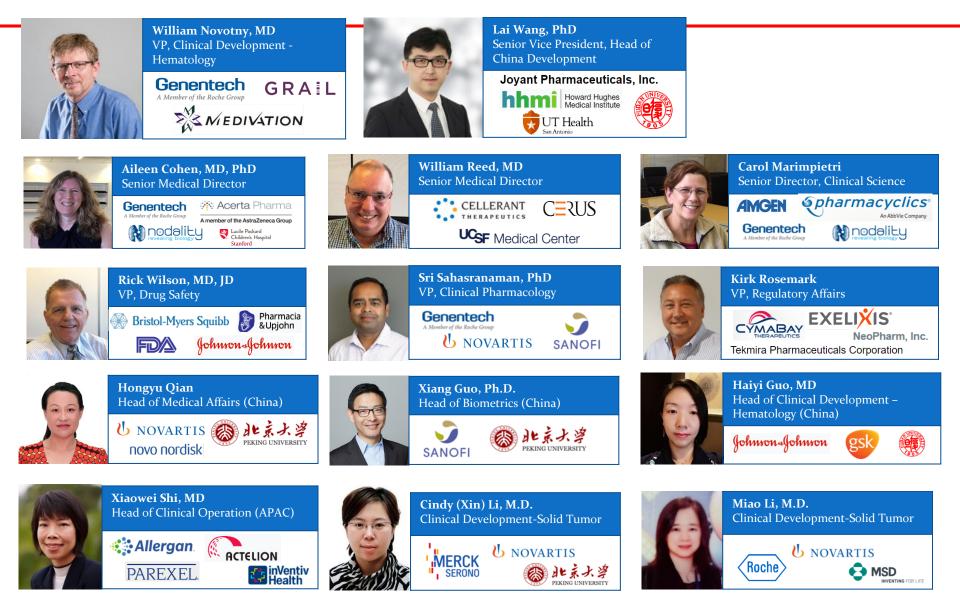


Zanubrutinib Clinical Development Plan



6onfidential

The Hematology Team





Clinical Pipeline: Lead Assets in Global Phase 3

Additional Pivotal Programs Expected to Start in Q1 2018

Program	Program Commercial		Dose Escalation	Dose Expansion*		Pivotal**	
(Molecular Target)	Rights	Pre-clinical	Phase 1a	Phase 1b	Phase 2	Phase 2	Phase 3
		Waldenstrom's mad	croglobulinemia (WM)				
		Treatment-naïve ch	ronic lymphocytic leuker	nia (CLL)			
		B-cell malignancies					
Zanubrutinib		Relapsed/refractory	(R/R) mantle cell lympho	oma			
(BTK)	Worldwide	R/R CLL					
		WM					
		R/R diffuse large B-	cell lymphoma (DLBCL)				
		B-cell malignancies					
		Solid tumors					
	Worldwide	2/3 L non-small cell	lung cancer				
Tislelizumab	(Heme Malignancies);	1 L Hepatocellular d	arcinoma (HCC)***				
(PD-1)	Asia ex-Japan		homa				
	(Solid Tumors) ¹	2L+ urotnellal carcil	noma				
		Solid tumors					

China

Global

In total, over 2,000 patients and healthy adults² enrolled across four programs, including combination trials

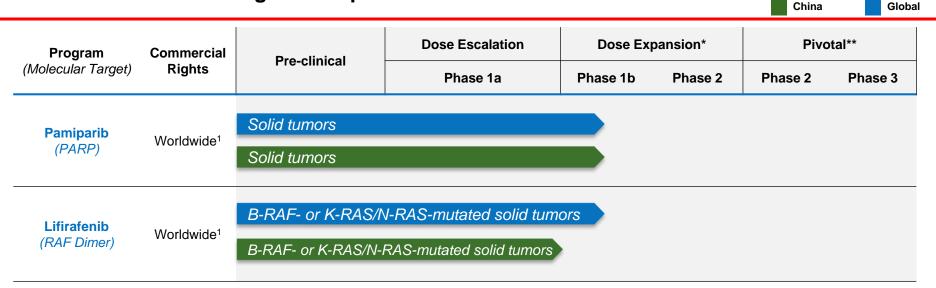
*Some indications will not require a non-pivotal Phase 2 clinical trial prior to beginning pivotal Phase 2 or 3 clinical trials. **Confirmatory clinical trials post approval are required for accelerated approvals. *** Plan to initiate



¹ Celgene has the rights to develop and commercialize tislelizumab in solid tumors in the United States, European Union, Japan and the rest-of-world 52 outside of Asia. ² As of November 20, 2017.

Clinical Pipeline: Lead Assets in Global Phase 3

Additional Pivotal Programs Expected to Start in Q1 2018



In total, over 2,000 patients and healthy adults² enrolled across four programs, including combination trials



*Some indications will not require a non-pivotal Phase 2 clinical trial prior to beginning pivotal Phase 2 or 3 clinical trials. **Confirmatory clinical trials post approval are required for accelerated approvals.

¹ Limited collaboration with Merck KGaA ³ As of November 20, 2017.

Combinations in Development

Broad Internal Portfolio Provides Advantages in Combination Therapy

Combination (Mechanism)	Pre-clinical	Dose Escalation	Dose Exp	Dose Expansion*		tal**
		Phase 1a	Phase 1b	Phase 2	Phase 2	Phase 3
Zanubrutinib + Gazyva®	R/R follicular lymphom	а				
(BTK + CD20)	B-cell malignancies					
Tislelizumab + Pamiparib (PD-1 + PARP)	Solid tumors					
Tislelizumab + Zanubrutinib (PD-1 + BTK)	Hematological tumors					
Tislelizumab + Chemo (PD-1 + Chemo)	1L lung cancer					
Tislelizumab + Chemo (PD-1 + Chemo)	1L GC, EC, GEJC					
Pamiparib + Temozolomide (PARP + Chemo)	Solid tumors					
Pamiparib + RT / Temozolomide (PARP + Radiation/Chemo)	Glioblastoma					

GC-gastric cancer, EC-esophageal cancer, GEJC-gastroesophageal junction cancer



*Some indications will not require a non-pivotal Phase 2 clinical trial prior to beginning pivotal Phase 2 or 3 clinical trials.

1e **Confirmatory clinical trials post approval are required for accelerated approvals.

Celgene has the rights to develop and commercialize tislelizumab in solid tumors in the United States, European Union, Japan and the rest-of-world outside of Asia.

China

Global

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Q&A with Dr. Christian Buske, Dr. Judith Trotman, Dr. Constantine Tam, Dr. Jane Huang, and Dr. Eric Hedrick



Dr. Christian Buske

Attending Physician, Professor and Medical Director, Comprehensive Cancer Center, Institute of Experimental Cancer Research, University Hospital Ulm, Germany

- President Elect, German Lymphoma Alliance
- Steering Committee German Low Grade Study Group
- Coordinator 'European Consortium for Waldenstrom's Macroglobulinemia
- Prior posts at the University Hospital Gottingen, British Columbia Cancer Agency, Vancouver and University Hospital Grosshadern, Munich
- Recipient of the Young Investigator Award International Society for Experimental Hematology
- Published in leading journals including Nature Medicine, Cell Stem Cell, Cancer Cell, Blood, Leukemia





Dr. Judith Trotman

Attending Physician, Associate Professor and Director, Clinical Research Unit, The University of Sydney and Concord Hospital, Sydney, Australia

- Chair of the Low Grade Lymphoma Committee of the Australian Leukaemia and Lymphoma Group
- Author of international guideline of staging and response assessment of lymphoma
- Lead author of paper that demonstrated the predictive power of PET-CT response assessment after first-line therapy in PRIMA and GALLIUM
- Principal Investigator for two global studies in lymphoma
- Published in leading journals including NEJM, Blood, JCO and The Lancet Haematology







Q&A

Dr. Christian Buske Dr. Judith Trotman Dr. Constantine Tam

Dr. Jane Huang, BeiGene Dr. Eric Hedrick, BeiGene

