



ICML Updates on BTK Inhibitor BGB-3111 and its Clinical Development Plan

June 16, 2017

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Agenda

Pipeline Overview and Summary

14-ICML Presentations

- Abstract # 059: Bruton's Tyrosine Kinase (BTK) Inhibitor BGB-3111 Demonstrates High Very Good Partial Response (VGPR) Rate in Patients with Waldenström Macroglobulinemia (WM)
- Abstract # 237: High Overall Response Rate With the BTK Inhibitor BGB-3111 in Patients With Chronic Lymphocytic Leukemia / Small Lymphocytic Lymphoma: an Update on Safety and Activity
- Abstract # 103: Safety and Activity of the Highly Specific BTK Inhibitor, BGB-3111 Plus
 Obinutuzumab in Patients with Follicular Lymphoma and Chronic Lymphocytic Leukemia
- BGB-3111 Clinical Development Plan
- Q&A



BeiGene Pipeline: Lead Asset in Global Phase III

Additional Global Pivotal Programs Expected to Start in 2017



			Global Cl	inical Pipeline	Status	Small Mo	olecule Antibody
Program	Molecular Target	Commercial Rights	Preclinical	Dose Escalation	Dose Expansion	Registrational Trials	Potential Differentiation
BGB-3111	втк	Worldwide					Deeper target suppression enabled by improved selectivity and exposure
BGB-A317	PD-1	Worldwide			-		Fc receptor binding has been engineered out
BGB-290	PARP	Worldwide ¹					Significant brain penetration, strong DNA trapping and high selectivity
BGB-283	RAF Dimer	Worldwide ¹			•		Inhibits monomer and dimer forms of RAF; potential activity in RAS

■ In total, over 1,200 patients and healthy adults² enrolled across 4 programs including combination trials



Two Assets in Pivotal Trials in China

Additional Pivotal Trials Expected to Start in China in 2017



		Clinical Pipelir	ne Status in China	Small Molecu	le Antibody
Program	Molecular Target	Preclinical	CTA Approval	Dose Confirmation/ Expansion	Registrational Trials
BGB-3111	втк				
BGB-A317	PD-1				
BGB-290	PARP				
BGB-283	RAF Dimer				



Combinations in Development

Broad Internal Portfolio Provides Advantages in Combination Therapy

				External Combo	Internal Combo
Mechanism of Action	Planning for Combination	Dose Escalation	Dose Expansion	Registrational Trials	Differentiation
BTK + CD20					No interference with CD20 antibody activity due to BTK selectivity
PD-1 + PARP					Good tolerability due to PARP selectivity
PD-1 + BTK					Good tolerability due to BTK selectivity
	of Action BTK + CD20 PD-1 + PARP	of Action Combination BTK + CD20 PD-1 + PARP	of Action Combination Escalation BTK + CD20 PD-1 + PARP	Mechanism of Action Planning for Combination Escalation Expansion BTK + CD20 PD-1 + PARP	of Action Combination Escalation Expansion Trials BTK + CD20 PD-1 + PARP

Combination Potential

- We believe we have the only wholly owned PD-1 and BTK inhibitor combination in clinical testing
- We believe we are one of a small number of companies with internal combinations of PD-1 + PARP inhibitors
- Potential for RAF dimer / PD-1 inhibitor combination based on internal data
- Broad preclinical programs target multiple points in the immunity cycle



ICML Update on BGB-3111 and Summary

- WM monotherapy data: improving VGPR rate (43% vs. 34% at ASH) in a larger number of patients (42 vs. 32 evaluable) further supports ongoing global head-to-head Phase III trial
- CLL monotherapy data: continued high ORR (94%) in a larger number of patients (66 vs 46 evaluable at ASH); CRs emerging despite relatively short follow-up; low discontinuation rate due to AE or progression
 - Initiating 1L CLL trial vs. BR to address the large population of previously untreated patients who are not eligible for intensive chemo-immunotherapy (FCR)
- Combination data with Gazyva: strong early signal in FL (high ORR and CR after a short follow-up) supports expedited development in FL where there is an unmet need as well as a large opportunity for which a BTK inhibitor has not been approved
- Continue to show excellent safety and tolerability profile; very low rate of discontinuation
 - Nearly 500 patients dosed in BGB-3111 clinical program





14-ICML Presentations



BGB-3111 Background

- Bruton's Tyrosine Kinase (BTK), is a critical signaling component of the Bcell receptor, and mediates proliferation, cellular homing, and stromal adhesion in a variety of B cell malignancies
- Ibrutinib, the first generation BTK inhibitor, is currently approved in the following diseases/ treatment settings:
 - CLL/SLL: Survival advantage over ofatumumab (relapsed/ refractory setting) and chlorambucil (treatment-naïve setting)
 - Waldenstrom's macroglobulinemia (WM): single-arm trial (n=63) with major RR 73%, VGPR 15%, 3-year EFS 69%
 - Mantle cell lymphoma and marginal zone lymphoma
- Ibrutinib remains under development, but not yet approved, in other B cell malignancy subtypes, including FL and DLBCL
- BGB-3111 is a potent and specific BTK inhibitor, designed to minimize off target inhibition of TEC- and EGFR-family kinases
 - Favorable pharmacokinetic properties designed to maximize plasma exposure and tissue-independent BTK occupancy

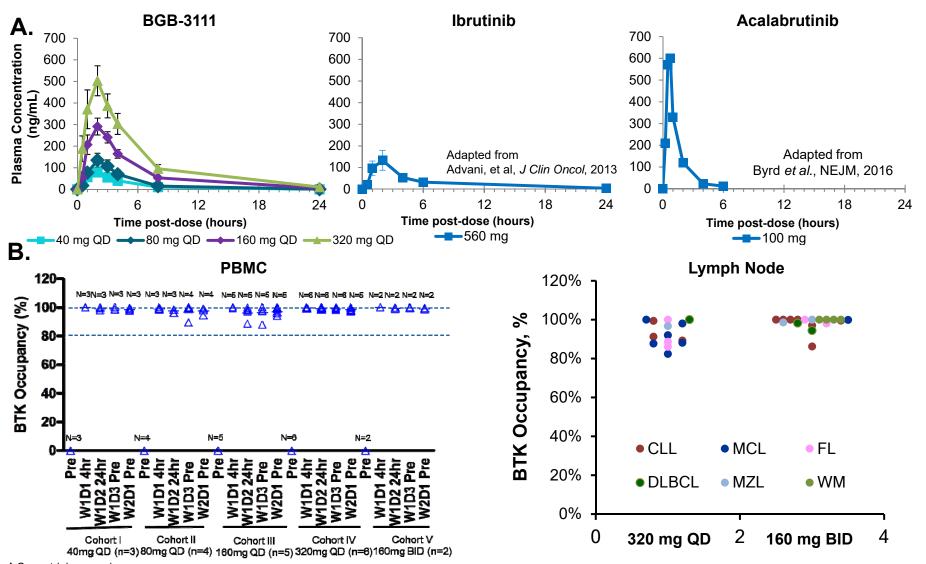
BGB-3111: Kinase Selectivity Relative to Ibrutinib

Highly selective inhibition of BTK relative to similar tyrosine kinases

Targets	Assays	Ibrutinib IC ₅₀ (nM)	BGB-3111 IC ₅₀ (nM)	Ratio (BGB-3111:lbrutinib)
	BTK-pY223 Cellular Assay	3.5	1.8	0.5
втк	Rec-1 Proliferation	0.34	0.36	1.1
BIK	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
	A431 Proliferation	323	3,210	9.9
	ITK Occupancy Cellular Assay	189	3,265	17
ITK	p-PLC _{γ1} Cellular Assay	77	3,433	45
IIK	IL-2 Production Cellular Assay	260	2,536	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 1

Pharmacokinetics of BGB-3111, Ibrutinib and Acalabrutinib¹ (Fig A) and BTK Occupancy for BGB-3111 in Peripheral Blood and Lymph Node (Fig B)



[^] Cross-trial comparison

¹Tam CS, et al. *Blood*. 2015;126:832. ²Advani RH, et al. *J Clin Oncol*. 2013;31:88-94. ³Byrd, et al. *NEJM*. 2016;374:323-32. ⁴Tam, et al. ASH 2016 (Abstracts 642 and 1216)

Bruton's Tyrosine Kinase (BTK) Inhibitor BGB-3111 Demonstrates High Very Good Partial Response (VGPR) Rate in Patients with Waldenström Macroglobulinemia (WM)

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WM: Patient Characteristics

Characteristic	Total (N = 48)
Age, years, median (range)	66 (44-87)
ECOG Performance Status, n (%) 0 1	14 (29) 34 (71)
Follow-up, months, median (range)	10.6 (1.4-30.5)
Prior Treatment Status, n (%) Treatment-naïve Relapsed/refractory Number of prior therapies, median (range) Prior rituximab (% R/R pts)	10 (21) 38 (79) 1 (1-8) 28 (74%)
Genotype MYD88 ^{L265P} / CXCR4 ^{WT} MYD88 ^{L265P} / CXCR4 ^{WHIM} MYD88 ^{WT} Unavailable	21 (43.8) 5 (10.4) 5 (10.4) 17 (35.4)

WM: Most Frequent Adverse Events (> 10%) Independent of Causality (Safety Population: N = 48)

Adverse Event	All G	Frade	Grade 3-4	
Adverse Event	n (pts)	%	n (pts)	%
Petechiae/purpura/contusion	17	35%	0	0%
Upper respiratory tract infection	15	31%	0	0%
Constipation	12	25%	0	0%
Diarrhea	9	19%	1	2%
Epistaxis	9	19%	0	0%
Nausea	8	17%	0	0%
Cough	7	15%	0	0%
Anemia	7	15%	4	8%
Headache	7	15%	1	2%
Neutropenia	6	13%	4	8%
Rash	6	13%	0	0%

WM: Overview of Adverse Events

	All Cause		
Event	n (pts)	%	
Patients with at least one AE Grade ≥3	20	42%	
Patients with at least one SAE	18	38% [†]	
Events leading to treatment discontinuation	3 [‡]	6%	

[†] SAE pos. related to BGB-3111: haemothorax, atrial fib, colitis, febrile neutropenia, headache (all n=1)

AE (Constallation)	All G	rade	Grade 3-4	
AE of Special Interest	n (pts)	%	n (pts)	%
Diarrhea	9	19%	1	2%
Serious hemorrhage§	1	2%	1	2%
Atrial fibrillation	3	6%	0	0

[§]Def serious hemorrhage: grade ≥3, or CNS hemorrhage of any grade.

[‡] Bronchiectasis, adenocarcinoma of pylori, and prostate adenocarcinoma (all n=1)

WM: Efficacy Summary (n = 42)

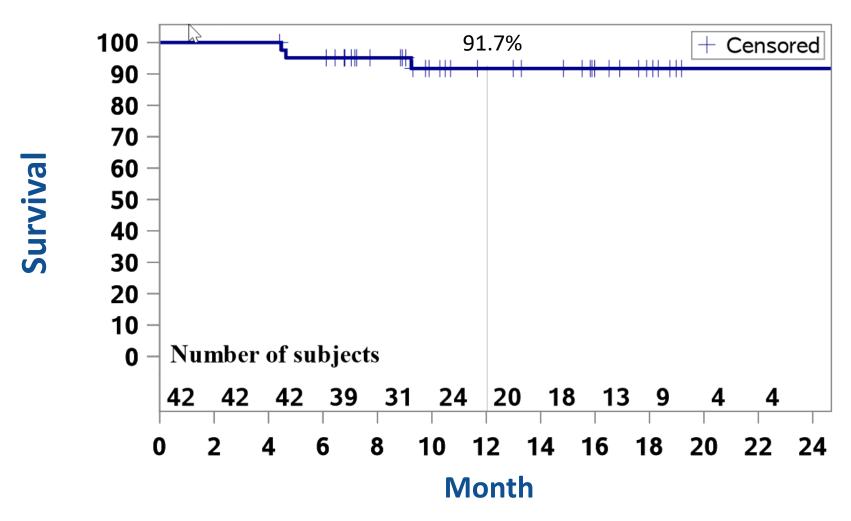
	Total
Median follow-up (range)	12.3 months (4.4-30.5)
Best Response (n = 42) CR VGPR PR MR SD	0 18 (43%) 14 (33%) 6 (14%) 4 (10%) 0 76% MRR* ORR†
IgM reduction (median, %)	32.7 g/L to 6.1 g/L (81.3%)
Hemoglobin change (median)	104.5 g/L to 142 g/L
Lymphadenopathy reduction by CT (n, range)	45.5% (median) (16, 18.2%-81.4%)

A VGPR and a PR (along with two minor responses) were observed in the 5 patients with MYD88 wild-type status.

[†] Overall response rate.

^{*} Major response rate.

WM: Progression-Free Survival



⁴ patients have discontinued treatment to date, 1 with progressive disease and 3 with adverse events: exacerbation of bronchiectasis (n=1), prostate adenocarcinoma (n=1), and gastric carcinoma (n=1)

Conclusions

- BGB-3111, a highly selective oral BTK inhibitor achieves high plasma concentrations and complete BTK occupancy in blood and lymph nodes
- BGB-3111 is very well tolerated
 - To date: No treatment discontinuation due to BGB-3111 related toxicity
 - One AE-related death (due to pre-existing bronchiectasis, while in VGPR)
- Highly active in WM
 - Overall response rate 90%, with 43% VGPR

High Overall Response Rate With the BTK Inhibitor BGB-3111 in Patients With Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma: an Update on Safety and Activity

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CLL/ SLL: Patient Characteristics

Characteristic	Total (N = 69)
Age, years, median (range)	68 (24-87)
ECOG Performance Status, (%) 0 1 2	34 (49) 33 (48) 2 (3)
Follow-up, months, median (range)	10.3 (0.4-26.8)
Prior treatment status Treatment-naïve, n (%) Relapsed/refractory, n (%) Number of prior therapies, median (range)	18 (26) 51 (74) 2 (1-7)
Bulky disease*, n (%)	4 (6)
Molecular risk factors, n (%) del17p/p53mut (n = 51) 11q- (n = 44) IgHV unmutated (n = 16)	20 (39) 14 (32) 11 (69)

ECOG, Eastern Cooperative Oncology Group; LN, lesion.

^{*} Any lymph node >10 cm in maximum diameter.

CLL/SLL: Most Frequent Adverse Events (> 10%) Independent of Causality (N = 69)

Adverse Event	All (Grade	Grade 3-4	
Adverse Event	n (pts)	% (N = 69)	n (pts)	% (N = 69)
Petechiae/purpura/contusion	32	46%	1	1%
Fatigue	20	29%	0	0%
Upper respiratory tract infection	19	28%	0	0%
Cough	16	23%	0	0%
Diarrhea	15	22%	0	0%
Headache	13	19%	0	0%
Hematuria	10	15%	0	0%
Nausea	9	13%	0	0%
Rash	9	13%	0	0%
Arthralgia	8	12%	0	0%
Muscle spasms	8	12%	0	0%
Urinary tract infection	8	12%	0	0%

pts, patients.

CLL/SLL: Adverse Events of Special Interest

	SAE	n (pts)	% (N = 69)	Grade	Led to Treatment Discontinuation
Purpura (subcutaneous hemorrhage)	Y	1	1%	G3	0
Diarrhea	Υ	1	1%	G2	0
Atrial fibrillation	N	1	1%	G2	0

- A total of 18 SAEs were experienced by 13 patients
 - SAE's not listed above (1 each) were also reported: CLL, delirium, febrile neutropenia, Invasive ductal breast carcinoma, lower respiratory tract infection, pleural effusion, renal colic, sepsis, splenectomy, splenomegaly, painful swelling in right neck, cardiac failure, coronary artery stenosis, ventricular extrasystole, pneumonia, and hemorrhoidal infection

CLL/SLL: Events Leading to Permanent Treatment Discontinuation

Event	n (pts)	% (N = 69)
Adverse event (Pleural effusion)	1*	1%
Hodgkin's Transformation	1	1%

^{*} Taken off study prior to first response assessment.

No patients have progressed with a C481S mutation

CLL/SLL: Response

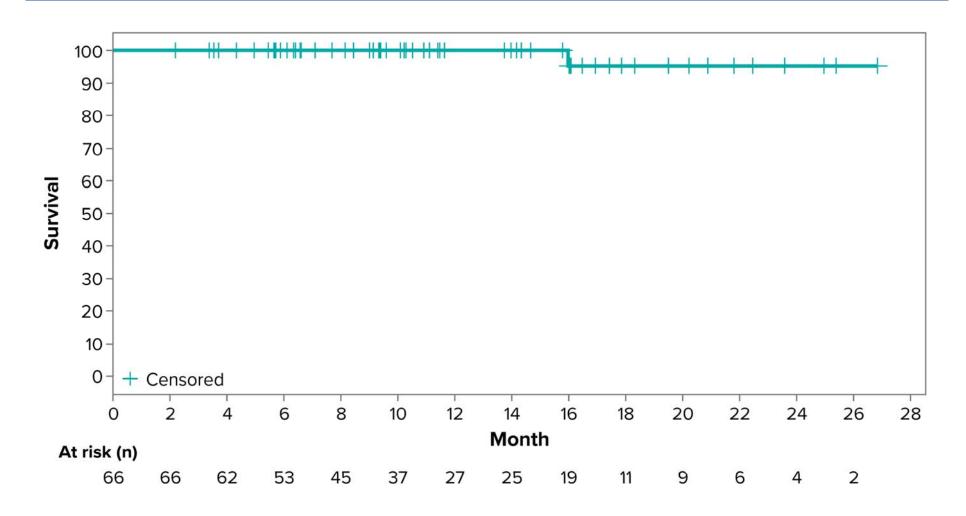
Response	Treatment Naive	Relapsed/Refractory	Total
	(n = 16)	(n = 50)	(n = 66)
Median follow-up, mo (range)	7.6 (3.7-11.6)	14.0 (2.2-26.8)	10.5 (2.2-26.8)
Best Response ORR CR* PR PR-L	16 (100%) 1 (6%) 13 (81%) 2 (13%)	46 (92%) 1 (2%) 41 (82%) 4 (8%)	62 (94%) 2 (3%) 54 (82%) 6 (9%)
SD D/C prior to assessment	0	3 (6%)	3 (5%)
	0	1 (2%)	1 (2%)

CR, complete response; D/C, discontinuation; ORR, overall response rate; PR, partial response; PR-L, partial response with lymphocytosis; SD, stable disease.

The ORR in patients with del17p and/or 11q- (n = 22) was 96%

^{*} Most patients in this series have yet to reach the protocol-defined marrow reassessment time point for CR assessment

CLL/SLL: Progression-Free Survival



Conclusions (CLL/ SLL Phase 1 Update)

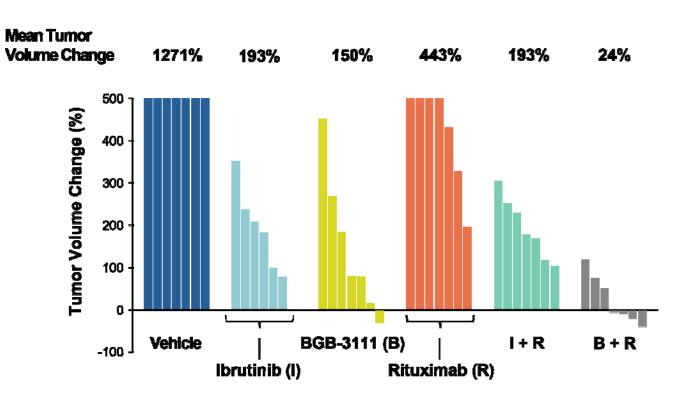
- BGB-3111 is highly active in CLL/SLL
 - Very high rate (94%) of durable response, independent of poor-risk features
 - With a median follow-up of 10.3 months, only one patient has experienced disease progression (Hodgkin's transformation)
- BGB-3111 is safe and well tolerated in CLL/SLL
 - Only one patient with adverse event-related treatment discontinuation
 - Very low incidence of serious diarrhea (1%), and serious bleeding (1%) and atrial fibrillation (1%)
- These updated results support Phase 3 trials of BGB-3111 in a broad population of CLL/SLL patients

Safety and Activity of the Highly Specific BTK Inhibitor, BGB-3111 Plus Obinutuzumab in Patients with Follicular Lymphoma and Chronic Lymphocytic Leukemia

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BGB-3111 Does Not Impair Rituximab-Induced ADCC



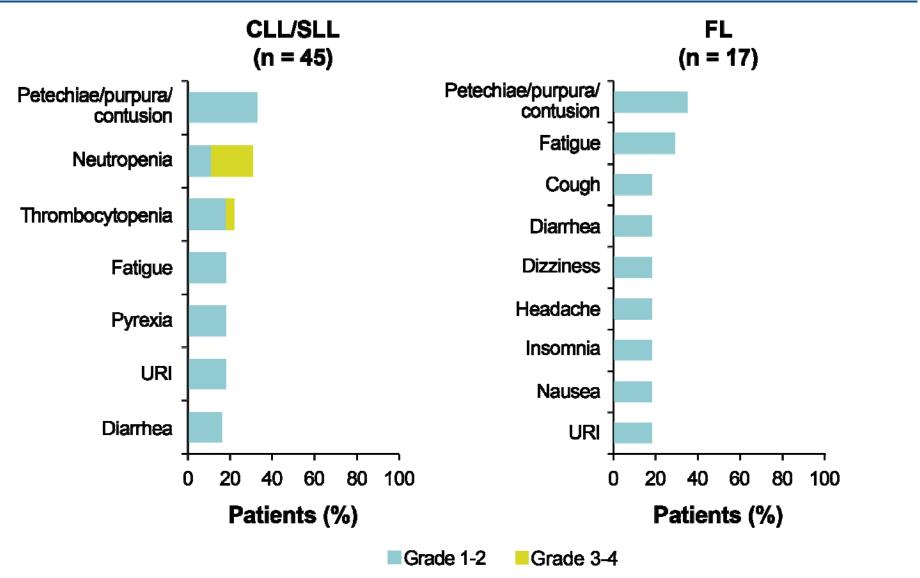
- Published preclinical data suggest that off-target effects of ibrutinib may be detrimental to CD20 mAb-induced ADCC and the activity of the combination
- In a human MCL xenograft model, the combination of BGB-3111 and CD20 antibody demonstrated improved anti-tumor activity as compared to monotherapies and combination of ibrutinib and CD20 antibody

BGB-3111+Obinutuzumab: Patient and Disease Characteristics

Characteristic	CLL/SLL (n = 45)	FL (n = 17)
Age, years, median (range)	68 (38-82)	56 (41-86)
ECOG Performance Status, (%) 0 1 2	19 (42.2) 25 (55.6) 1 (2.2)	14 (82.4) 2 (11.8) 1 (5.9)
Follow-up, months, median (range)	6.5 (0.5-14.0)	7.9 (0.1-14.2)
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 17 (100) 3 (1-7)
Bulky Disease*,n (%)	0	2 (11.8)
Molecular Risk Factors, n (%) del17p/p53mut (n = 37) 11q- (n = 37) IGHV unmutated (n = 37) Complex karyotype (n = 37)	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.

BGB-3111+Obinutuzumab: Most Common Adverse Events (Regardless of Causality)



BGB-3111+Obintuzumab: Adverse Events

Event, n (%)	CLL/ SLL (n = 45)	FL (n = 17)
Patients with at least one AE Grade ≥3	19 (42.2)	4 (23.5)
Patients with at least one SAE	11 (24.4)	4 (23.5)
Events leading to treatment discontinuation	1 (2.2)*	0

^{*} Patient with a history of squamous cell carcinoma discontinued due to squamous cell carcinoma

	CLL/SLL (n = 45)		FL (n = 17)	
AE of Special Interest, n (%)	All Grade	Grade 3-4	All Grade	Grade 3-4
Diarrhea	7 (15.6)	0	3 (17.6)	0
Serious hemorrhage*	0	0	0	0
Atrial fibrillation	0	0	0	0
Infusion-related reactions	11 (24.4)	1 (2.2)	1 (5.9)	0

^{* &}lt;u>></u>Grade 3 hemorrhage, or central nervous system hemorrhage of any grade.

BGB-3111+Obinutuzumab: Disease Response

Follow-up and Response	TN CLL/SLL (n = 18)	R/R CLL/SLL (n = 25)	FL (n = 15)
Median follow-up, mo (range)	7.0 (2.8-11.8)	8.0 (3.8-14.0)	6.2 (1.2-10.7)
Best Response			
ORR	16 (88.9)	23 (92.0)	11 (73.3)
CR	4 (22.2)	4 (16.0)	5 (33.3)
PR	12 (66.7)	19 (76.0)	6 (40.0)
PR-L	0	0	N/A
SD	2 (11.1)	1 (4.0)	2 (13.3)
PD	0	1 (4.0)	2 (13.3)

As of 31 March 2017, all responses (CLL and FL) are ongoing (range 3-12 months)

Conclusions

- The potent and selective BTK inhibitor BGB-3111 and the anti-CD20 antibody obinutuzumab are safe and well-tolerated when given in combination in patients with CLL/SLL and FL
- The combination of BGB-3111 and obinutuzumab is highly active in CLL/SLL and FL
- Early CR rate in CLL/SLL is favorable compared to the expected rate with BTK-inhibitors or anti-CD20 antibodies alone
- Both the frequency and depth of response in FL (overall and complete response rates) are favorable compared to reported data with BTKinhibitors or anti-CD20 antibodies alone
- BeiGene is planning late-stage trials of this combination in FL



BGB-3111 Clinical Development Plan Update

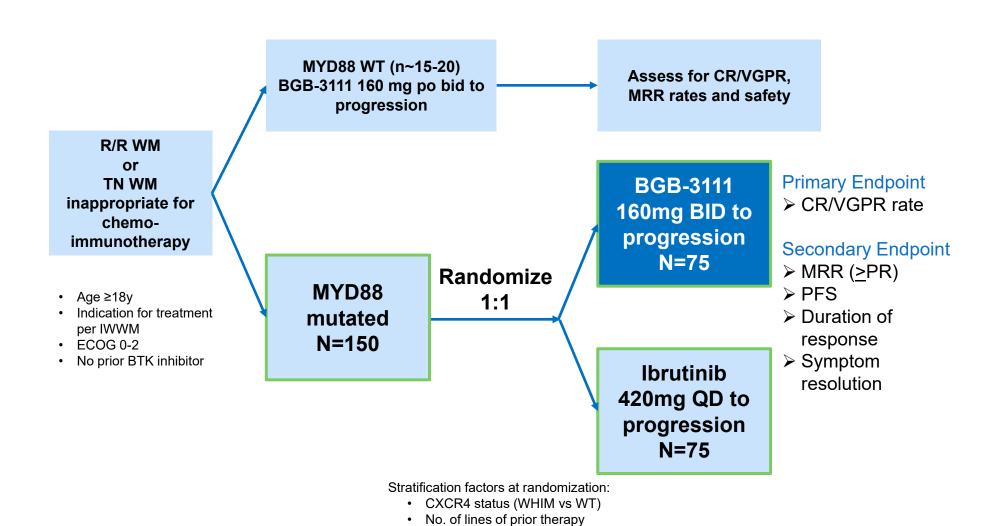


BGB-3111 Near-Term Development Strategy

- Current data suggest potential best-in-class attributes
 - Response depth, response durability, and tolerability as a monotherapy
 - Preliminary evidence of augmented activity in combination with obinutuzumab
- BeiGene's overall global plan is to develop BGB-3111 broadly, pursuing approvals in multiple indications and broadly-defined patient populations
- Near-term development considerations
 - WM: maturing monotherapy data continue to support ongoing Phase 3 trial vs. ibrutinib.
 - CLL: The data from the updated Phase 1 monotherapy experience supports approvaldirected development in a broad initial treatment CLL population.
 - FL: Unmet medical need exists (failed at least 2 prior lines of therapy and progression within one year of last treatment). Initial efficacy results with BGB-3111+obinutuzumab combination support an expedited development trial in this unmet need population, plus a confirmatory study in a broader (earlier line) FL population.



BGB-3111 Phase 3 Study Design in WM



(0 vs. 1-3 vs. >3)



BGB-3111 in WM: ICML update continues to support the ongoing global head-to-head pivotal trial

With a median follow-up of 12.3mo, VGPR of 43% compares very favorably to VGPR of 13-16% of ibrutinib with longer follow up[^]

	BGB-3111 (IWWM 2016)	BGB-3111 (ASH 2016)	BGB-3111 (14-ICML)	Ibrutinib (Treon)	lbrutinib (PCYC-1127)
n	24	32	42	63	31
Follow-up (med)	8.0 mo	9.6 mo	12.3 mo	19.1 mo*	17.1 mo
VGPR	33%	34% VGPR	43% VGPR	16% VGPR	13% VGPR

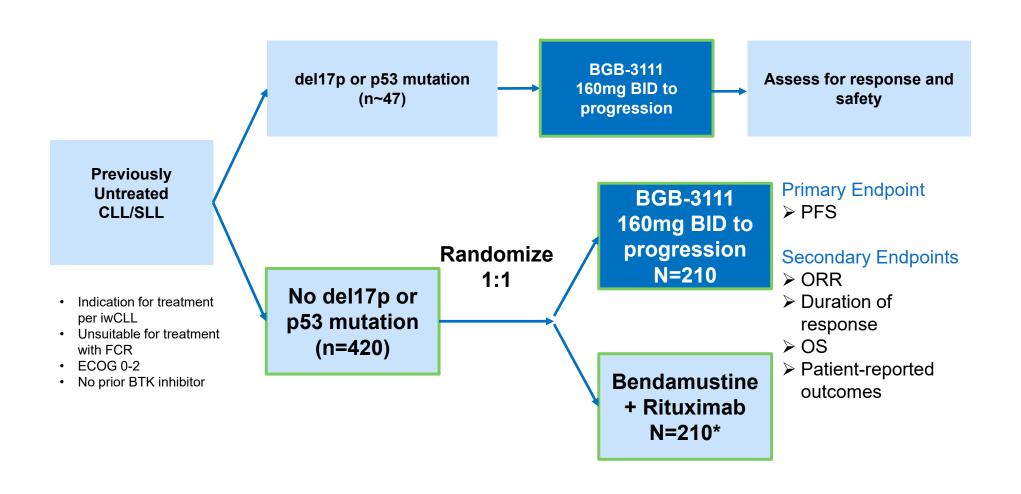
 Responses occurred across mutation statuses including patients with MYD88 wild-type background

Genotype	Best Response				
N=31*	VGPR	PR	MR	SD	
$MYD88^{L265P}/CXCR4^{WT}$ (n = 22)	11 (50%)	7 (32%)	2 (9%)	2 (9%)	
$MYD88^{L265P}/CXCR4^{WHIM}$ (n = 4)	1 (25%)	2 (50%)	1 (25%)	0	
<i>MYD88^{WT}</i> (n = 5)	1 (20%)	1 (20%)	2 (40%)	1 (20%)	

- Global pivotal trial enrolling well with the opportunity to establish superiority over SOC
 - Estimated 22,500 new cases worldwide each year



BGB-3111 Phase 3 Study Design in Treatment-Naïve CLL



^{*}crossover allowed at progression

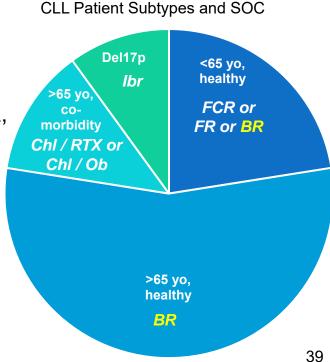


BGB-3111 for CLL: positioned for broad opportunity in 1L CLL

ICML update maintains high responses in larger dataset in all treatment settings

Response	TN (n = 16)	R/R (n = 50)	Total (n = 66)
Median follow-up, mo (range)	7.6 (3.7-11.6)	14.0 (2.2-26.8)	10.5 (2.2-26.8)
ORR	16 (100%)	46 (92%)	62 (94%)

- Very low rate of discontinuation (3%) due to any event, 1 AE and 1 PD out of 69 patients with a median follow-up of 10.5 mo
- Plan to initiate pivotal trial in CLL front line against BR, considered most broadly applicable standard-of-care
 - Estimated 191,000 new cases of CLL and 61,000 deaths worldwide: 20,110 new cases and 4,660 deaths in the U.S. each year
 - BR is frequently used as a SOC for healthy, elderly patients, representing the largest segment of CLL





BGB-3111 Phase 2 Pivotal Study Design in Relapsed or Refractory Follicular Lymphoma

BGB-3111 + Obinutuzumab N=140

Relapsed or refractory FL

At least 2 prior lines of therapy Progression within 12 months of last treatment or refractory to last treatment

N=210

- → 2:1 Randomisation
- → Stratification factors:
 - number of prior lines of therapy (2-3 and > 3)

Study Endpoints:

Primary

> ORR

Secondary

- ➤ Duration of Response
- > PFS
- > OS
- > Time-to-response

Obinutuzumab*

N = 70

*option to add BGB-3111 after 12 months if no response



BGB-3111 for FL: Potential Rapid Entry into a Large Market Segment by Addressing a High Unmet Medical Need

- FL represents a significant market
- Significant unmet medical need: patients failed at least 2 prior lines of therapy and progression within one year of last treatment
- BGB-3111/ obinutuzumab combination highly active in a treatment setting where ibrutinib is not yet approved
- Early frequency and depth of responses in FL (73% ORR and 33% CR) compares favorably to reported data with BTK inhibitors or anti-CD20 antibodies alone[^]

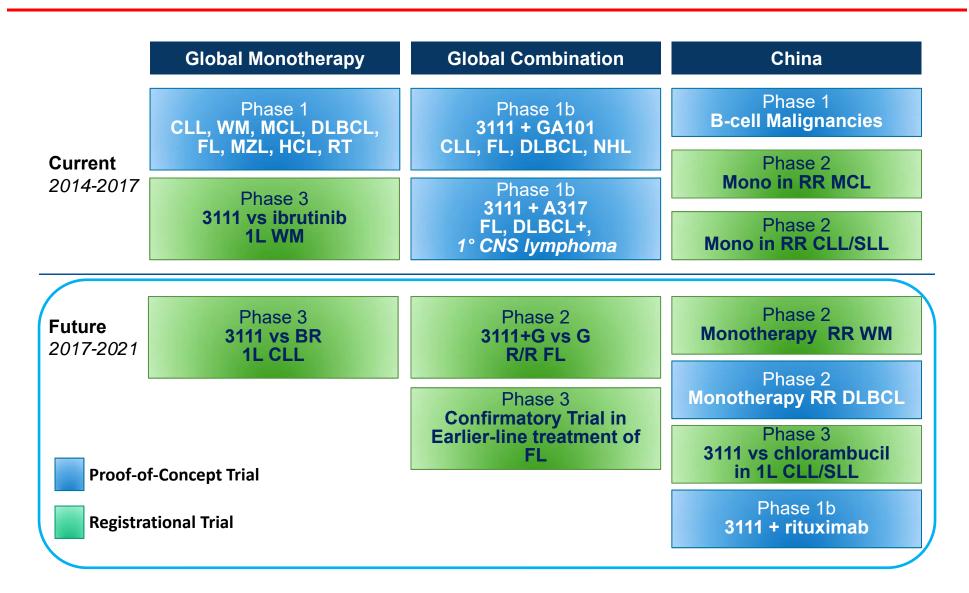
Significant Market (FL)^{1,2}

- Accounts for ~35% of NHLs, one of the most common forms
- Estimated 140,000 new cases worldwide each year
- Estimated 25,000 new cases in the U.S. each year
- ~50% of blockbuster drug Rituximab oncology revenue reported to come from FL

	BGB-3111 & Obinutuzumab	lbrutinib ³	Obinutuzumab⁴	ldelalisib⁵
n	15	110	40	72
Population	Prior alkylator and CD20, mixed Rituxansensitive and -refractory	Prior alkylator and CD20, last response <12 months	Mixed Rituxan- sensitive and - refractory	Alkylator and Rituxan- refractory relapse
Follow-up (med)	7.9 mo	27.7 mo	33.7 mo	NR
ORR	73%	21%	50%	54%
CR	33%	11%	18%	6%



BGB-3111 Near-Term Development Plan





BGB-3111 Clinical Development Summary

- Expanding program with close to 500 patients treated to date
- 2017 Phase 3/ Registrational Programs
 - China- accelerated programs in relapsed/ refractory CLL and MCL
 - On track for 2018-2019 filing
 - Best-in-class Phase 3 Trial in Waldenstrom macroglobulinemia
 - Superiority comparison (VGPR) with ibrutinib
 - First-in-class registrational opportunity in follicular lymphoma (in combination with obinutuzumab)*
 - Phase 3 trial in broad first-line CLL population*
- Broad Phase 2/ proof-of-concept program ongoing, including:
 - BGB-3111/ BGB-A317 (anti-PD1) combination
 - DLBCL (including molecular characterization studies)
 - Other B cell malignancies (MCL, MZL, etc.)



BeiGene – Near-term Milestones

Event	Expected Timing
BGB-3111 (BTK Inhibitor)	
Present data from the combination study with BGB-A317 at a medical conference	2 017
Present additional data from the dose-expansion phase of the Phase I monotherapy study	2 017
■ Present data from the China Phase I study	■ 2017
BGB-A317 (PD-1 Antibody)	
Present data from the Phase Ia/Ib study in patients with advanced hepatocellular carcinoma at the ESMO 18 th World Congress on Gastrointestinal Cancer	June 28-July 1, 2017
Present additional clinical combination data	2 017
■ Present data from the dose-expansion phase of the ongoing Phase I trials	■ 2017
BGB-290 (PARP Inhibitor)	
Present updated Phase I monotherapy study data	2 017

Initiate additional registrational trials globally and in China with our portfolio compounds in 2017





Q&A



Appendix



BGB-3111 Phase 1 Trial Design

DOSE ESCALATION

Dos	se	Enrolled (WM)
40 mg	QD	4 (1)
80 mg	QD	5 (2)
160 mg	QD	6 (1)
320 mg	QD	6 (0)
160 mg	BID	4 (0)

RP2D

320 mg QD or 160 mg BID

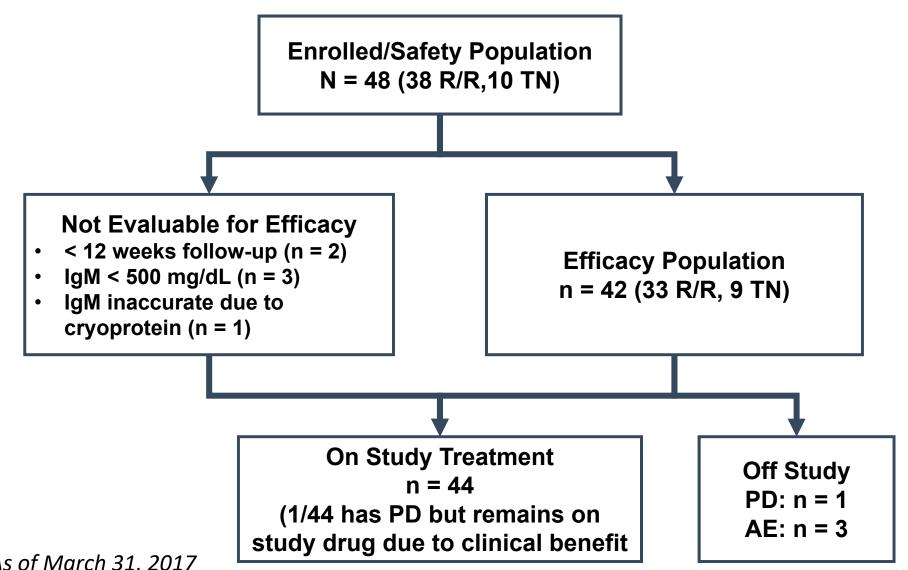
Eligibility:

- ≥1 prior therapy (relapsed cohorts only)
- No available higher priority treatment
- ECOG 0-2
- ANC >1,000/μl, PLT >*5*0,000/μl

DOSE EXPANSION

Population	RP2D Dose	Disease	Planned (WM enrolled)
Relapsed/Refractory	BID or QD	MCL, MZL, FL, GCB DLBCL , WM	40 (2)
Relapsed/Refractory	BID	Non-GCB DLBCL	40
Relapsed/Refractory	BID	CLL/SLL	70
Relapsed/Refractory	BID	WM	20 (20)
Relapsed/Refractory	QD	CLL/SLL	20
Relapsed/Refractory or Treatment-naïve	BID or QD	WM	50 (22)
Relapsed/Refractory	BID or QD	MCL	20
Treatment-naive	BID or QD	CLL/SLL	20
Treatment-naive	BID or QD	MCL	20
Relapsed/Refractory	BID or QD	HCL	10
Relapsed/Refractory	BID	iNHL	40
Relapsed/Refractory	BID	Richter Transform.	15
Relapsed/Refractory from prior btk-i	BID	WM	15

WM: Patient Disposition

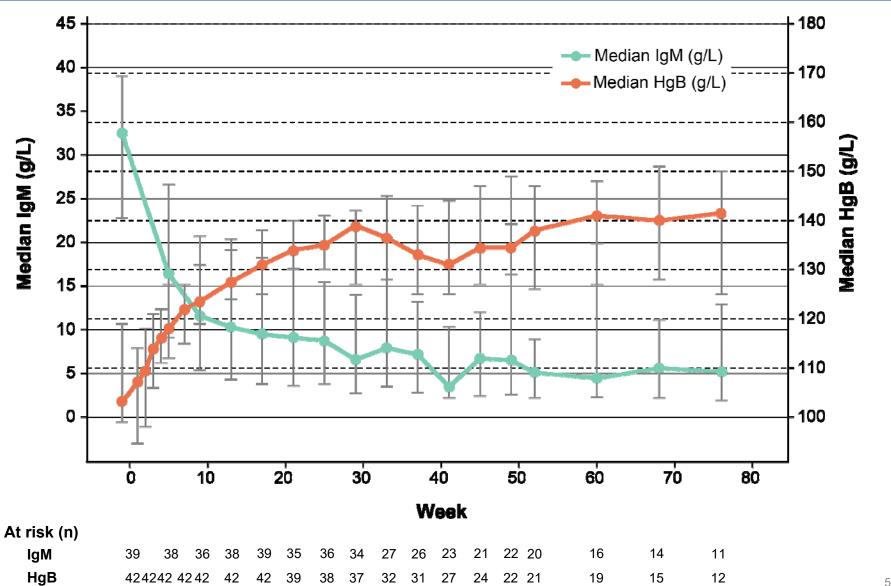


As of March 31, 2017

WM: Modified IWWM Response Criteria

Category	Criteria
Complete Response (CR)	 Normal serum IgM values Disappearance of monoclonal protein by immunofixation No histological evidence of bone marrow involvement Complete resolution of lymphadenopathy/splenomegaly (if present at baseline)
Very Good Partial Response (VGPR)	 ≥90% reduction of serum IgM from baseline or normal IgM values Reduction in lymphadenopathy/splenomegaly (if present at baseline)
Partial Response (PR)	 ≥50% reduction of serum IgM from baseline Reduction in lymphadenopathy/splenomegaly (if present at baseline)
Minor Response (MR)	• At least 25% but <50% reduction of serum IgM from baseline
Stable Disease (SD)	Not meeting criteria for CR, VGPR, PR, MR, or progressive disease
Progressive Disease (PD)	 At least one of the following: Confirmed ≥25% increase in serum IgM and total increase of ≥500 mg/dL from nadir (on treatment) New lymph nodes >1.5 cm, or ≥50% increase from nadir in SPD of >1 node, or ≥50% increase in longest diameter of previously identified node >1 cm in short axis New splenomegaly or ≥50% increase from nadir in enlargement New extranodal disease New or recurrent involvement in bone marrow New symptomatic disease

WM: Decreased IgM and Improved Hemoglobin Levels over time



WM: Response Rate By *MYD88* Mutation Status Preliminary Results

Genotype	Best Response			
N=31*	VGPR	PR	MR	SD
$MYD88^{L265P}/CXCR4^{WT}$ (n = 22)	11 (50%)	7 (32%)	2 (9%)	2 (9%)
$MYD88^{L265P}/CXCR4^{WHIM}$ (n = 4)	1 (25%)	2 (50%)	1 (25%)	0
$MYD88^{WT}$ (n = 5)	1 (20%)	1 (20%)	2 (40%)	1 (20%)

^{*} Patients evaluable for response with mutation data

WM: Efficacy by Prior Treatment

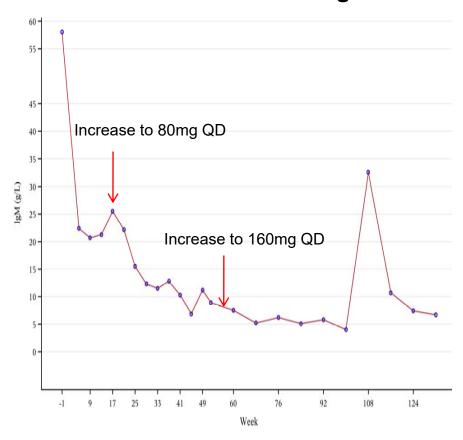
	Treatment-naive	Relasped/refractory	Total
	N=9	N=33	N=42
Median follow-up (range)	9.3 months (6.1-11.7)	15.5 months (4.4-30.5)	12.3 months (4.4-30.5)
Best Response CR VGPR PR MR SD	0	0	0
	2 (22%)	16 (49%)	18 (43%)
	5 (56%)	9 (27%)	14 (33%)
	2 (22%	4 (12%)	6 (14%)
	0	4 (12%)	4 (10%)

^{*} Major response rate.

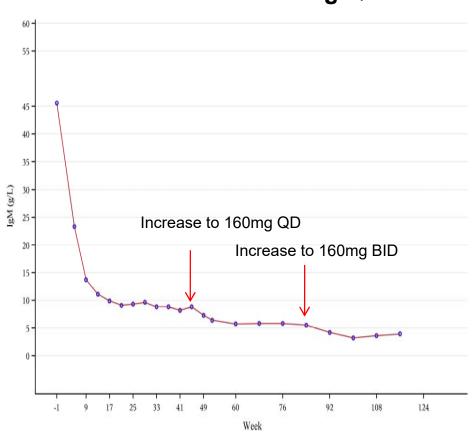
[†] Overall response rate.

WM: Intrapatient Dose Escalation

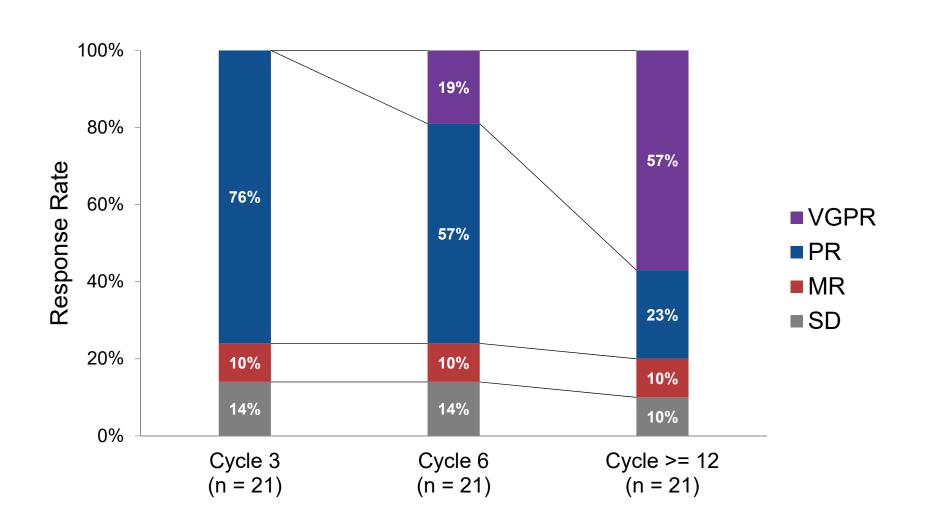
S401: Initial dose 40mg QD



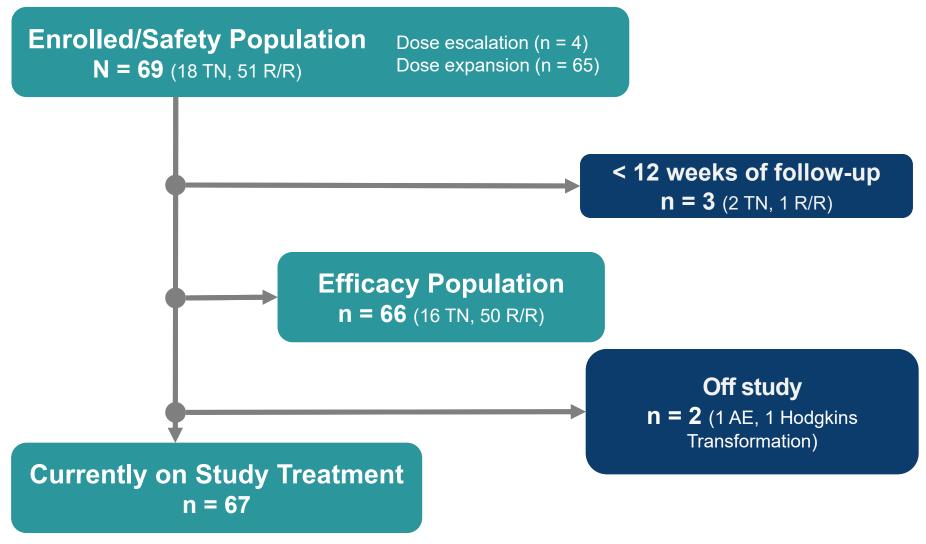
S101: Initial dose 80mg QD



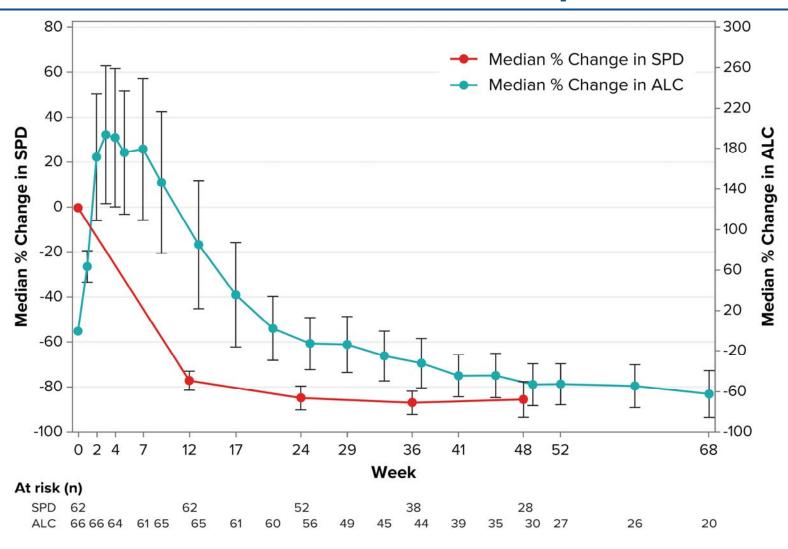
WM: IWWM Response Over Time on Treatment: 21 patients on study >12 months



CLL/ SLL: Patient Disposition



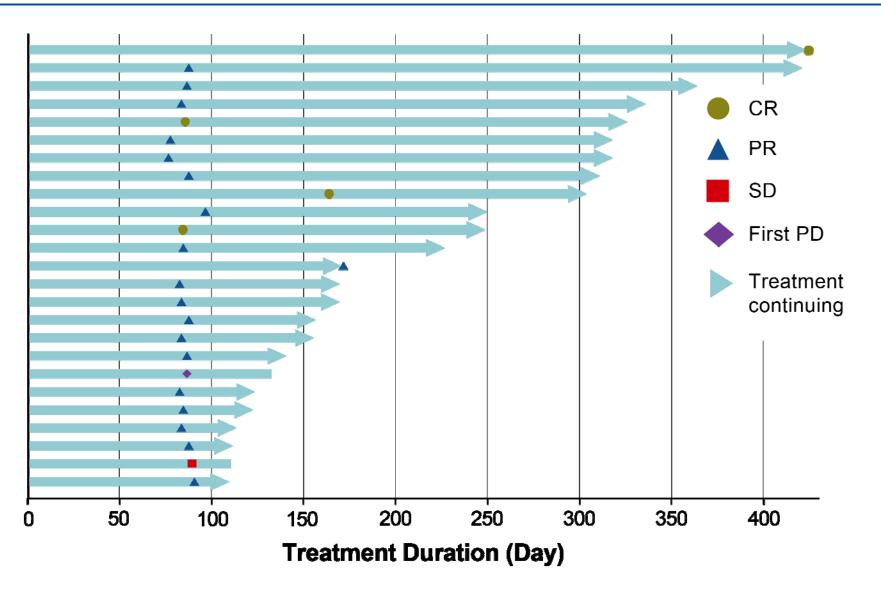
CLL: Kinetics of ALC and SPD Response



Note: Error bars represent 95% confidence intervals; 4 patients with SPD data at week 37 were combined with 34 patients with SPD data at week 36; 2 patients with SPD data at week 49 were combined with 26 patients with SPD data at week 48.

ALC, absolute lymphocyte count; SPD, sum of the products of lymph node diameters by CT scan.

BGB-3111+Obinutuzumab in R/R CLL/SLL: Duration of Treatment



Study Design: BGB-3111 in Combination with **Obinutuzumab**

	DOSE ESCALATION				
Cohort	BGB-3111* (D1-28/28-day cycles)	Obinutuzumab	Patients Dosed		
1a	320 mg QD	Cycle 1 D2: 100 mg Cycle 1 D3: 900 mg	4		
1b	160 mg BID	Cycle 1 D9 and D16: 1000 mg Cycles 2-6 D1: 1000 mg	5		

^{*} BGB-3111 treatment continued until progression, death, or unacceptable toxicity.

Eligibility:

- WHO defined B cell lymphoid malignancy
- ≥1 prior therapy (relapsed cohorts only)
- No available higher priority treatment
- **ECOG 0-2**
- ANC >1,000/µl, platelets >40,000/µl‡
- Adequate renal and hepatic function
- No significant cardiac disease§

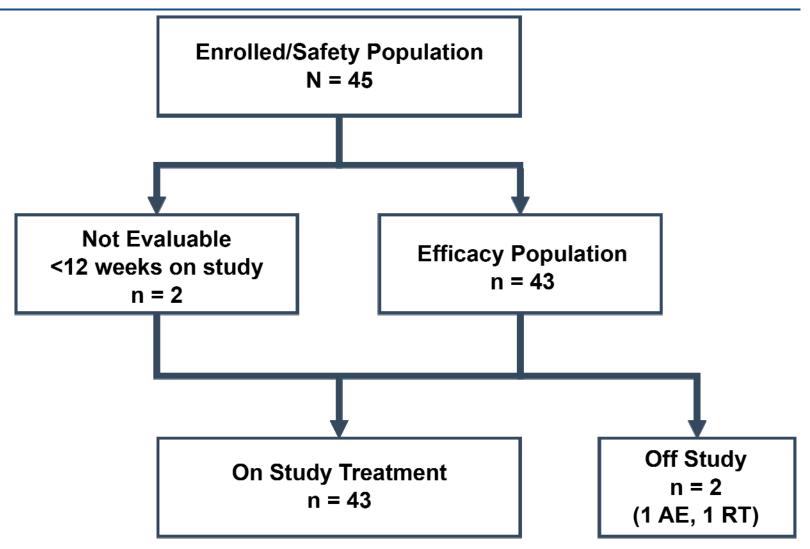
	DOSE EXPANSION		
Рор	Disease	Planned	
TN	CLL/SLL	20	
R/R	CLL	20	
R/R	non-GCB DLBCL	20	
R/R	FL, MCL, MZL, and WM	20	
R/R	FL	40	

[†] Cohort -1a and -1b will be opened if 2 or more DLTs are observed in Cohorts 1a and 1b.

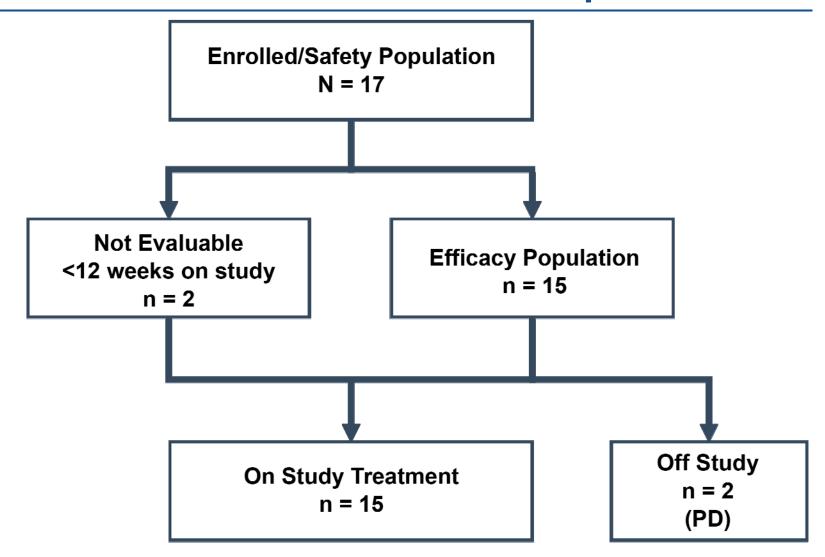
[‡] Growth factor/transfusion allowed.

[§]Anti-coagulation allowed.

BGB-3111+Obinutuzumab: CLL/SLL Patient Disposition

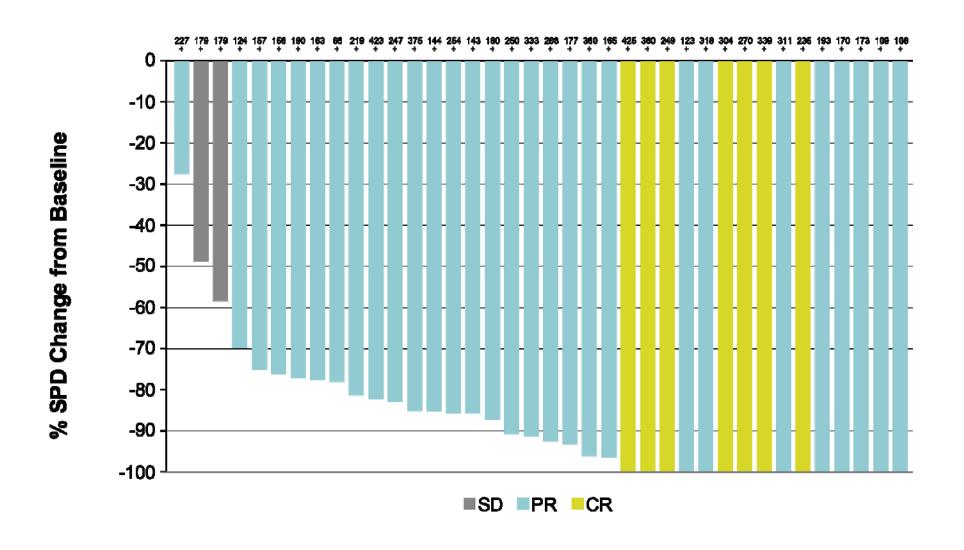


BGB-3111+Obinuzumab: FL Patient Disposition

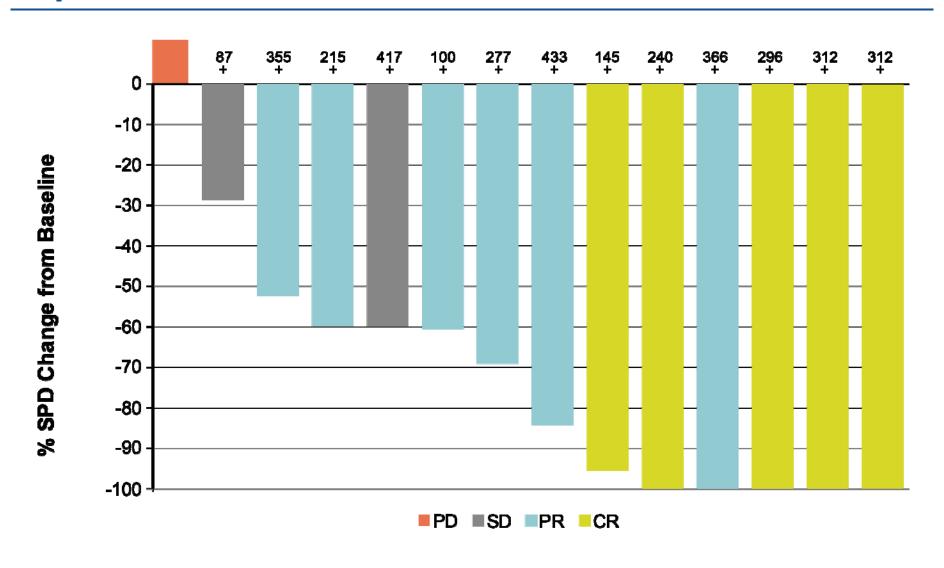


As of March 31, 2017

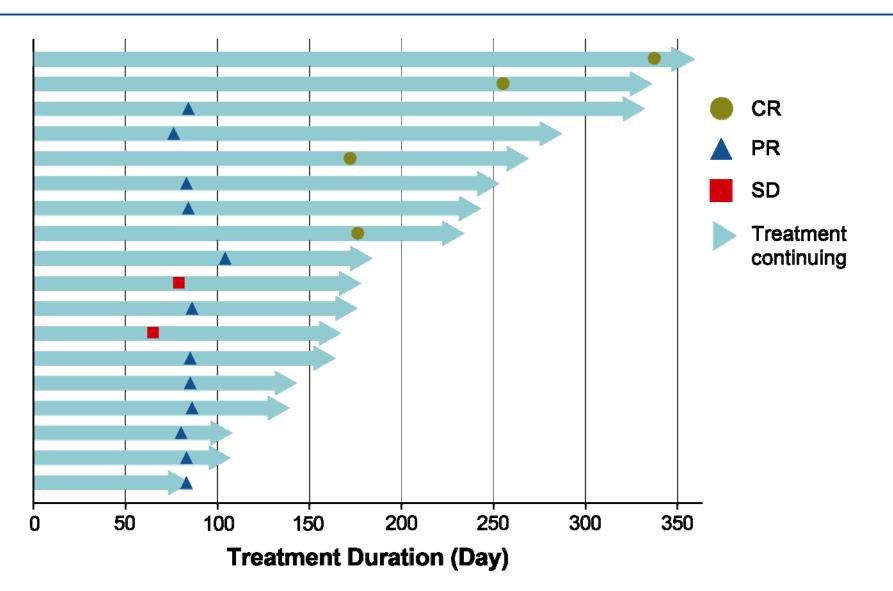
BGB-3111+Obinuzumab in CLL/SLL: Maximum Improvement in SPD



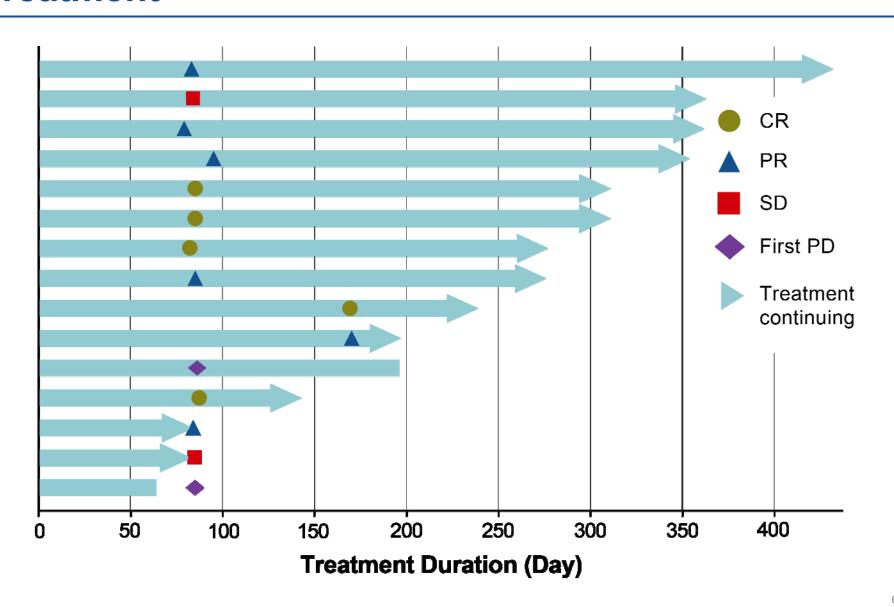
BGB-3111+Obinuzumab in FL: Maximum Improvement in SPD



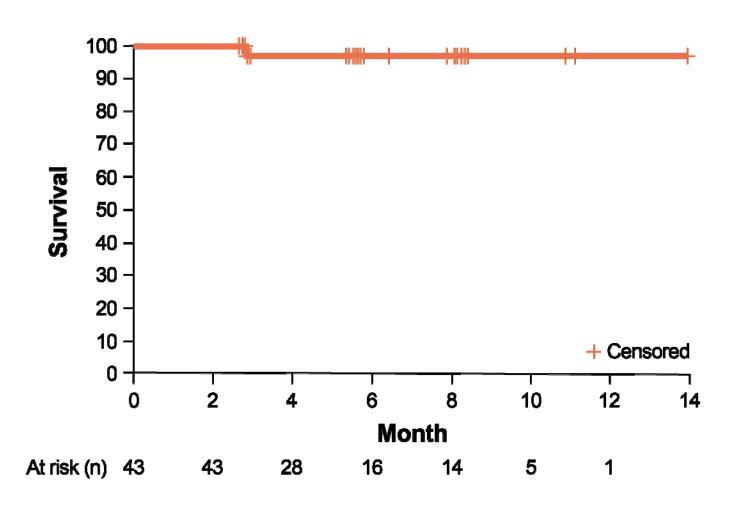
BGB-3111+Obinutuzumab in TN CLL/SLL: Duration of Treatment



BGB-3111+Obinutuzumab in FL: Duration of Treatment



BGB-3111+Obinutuzumab in CLL/SLL: Progression-Free Survival



BGB-3111+Obinutuzumab in FL: Progression-Free Survival

