

**HOT
NEWS**

NELLE SINDROMI LINFOPROLIFERATIVE:

la storia continua

CASI CLINICI

La leucemia linfatica cronica

Massimo Gentile

UOC Ematologia A.O. CS

DFSSN UNICAL

ROMA

19 Settembre 2023

UNAHOTELS Decò

Disclosures of Name Surname

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
BEIGENE						X	
ASTRAZENECA						X	
JANSSEN					X		



70 yrs

COMORBIDITIES:

- Hypertension
- Hypercholesterolaemia
- Gastric ulcer in treatment with PPI

APRIL 2023

Hb	WBC	Ne	Ly	PLT
11 g/dl	105 500/mmc	1800/mmc	92 030/mmc	62 000/mmc

Flow cytometry: CD5, CD19, dim CD20, dim CD22, CD23, bright CD43, dim CD45, dim to negative CD79b, dim CD81, CD200, and dim monoclonal surface immunoglobulin.

APRIL 2023

- **ABDOMEN ULTRASOUND:** spleen bp dm 21 cm
- **LYMPH NODES ULTRASOUND:** paracaval-, periaortic- and bilateral peri-iliac lymph node dm max 6 cm

Stage Binet C - Rai IV

**TREATMENT REQUIRED**

Table 1. Staging systems for CLL

Stage	Definition	
Binet system		
Binet A	Hb ≥ 100 g/l (6.21 mmol/l), platelets $\geq 100 \times 10^9/l$ <3 involved lymphoid sites ^a	
Binet B	Hb ≥ 100 g/l (6.21 mmol/l), platelets $\geq 100 \times 10^9/l$ ≥ 3 involved lymphoid sites ^a	
Binet C	Hb <100 g/l (6.21 mmol/l), platelets <100 $\times 10^9/l$	
Rai system		
Low-risk	Rai 0	Lymphocytosis $>5 \times 10^9/l$
Intermediate-risk	Rai I	Lymphocytosis and lymphadenopathy
	Rai II	Lymphocytosis and hepatomegaly and/or splenomegaly with/without lymphadenopathy
High-risk	Rai III	Lymphocytosis and Hb <110 g/l (6.83 mmol/l) with/without lymphadenopathy/organomegaly
	Rai IV	Lymphocytosis and platelets <100 $\times 10^9/l$ with/without lymphadenopathy/organomegaly

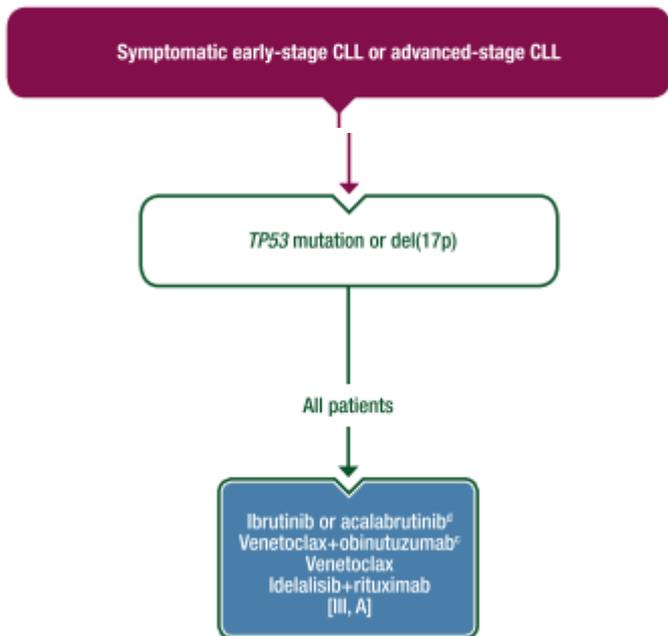
APRIL 2023

BIOLOGICAL PROGNOSTIC FACTORS

- **IGVH STATUS**: unmutated
- **FISH**: del 17p
- **TP53**: mutated

**RISK CATEGORY UNFAVORABLE**

GUIDELINES

SUGGESTED TREATMENT REGIMENS^{a,b,c,d}
CLL/SLL with del(17p)/TP53 mutation
(alphabetical by category)

Cheмоimmunotherapy is not recommended since del(17p)/TP53 mutation is associated with low response rates.

FIRST-LINE THERAPY ^e	
Preferred regimens	Other recommended regimens
<ul style="list-style-type: none"> • Acalabrutinib^f ± obinutuzumab • Ibrutinib^f • Venetoclax^{f,g} + obinutuzumab • Zanubrutinib^f 	<ul style="list-style-type: none"> • Alemtuzumab^f ± rituximab • HDMP + rituximab • Obinutuzumab
SECOND-LINE AND SUBSEQUENT THERAPY ^e	
Preferred regimens	Other recommended regimens
<ul style="list-style-type: none"> • Acalabrutinib^{f,n} (category 1) • Ibrutinib^f (category 1) • Venetoclax^{f,g} + rituximab (category 1) • Venetoclax^{f,g} • Zanubrutinib^{f,n} 	<ul style="list-style-type: none"> • Alemtuzumab^f ± rituximab • Duvelisib^f • HDMP + rituximab • Idelalisib^f ± rituximab^o • Lenalidomide^p ± rituximab • Ofatumumab^{q,s}

B. Eichhorst, Chronic lymphocytic leukaemia: ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up, 2020

NCCN Guidelines® Insights: Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma, Version 3.2022

MAY 2023

START IBRUTINIB

w1

Hb	WBC	Ne	Ly	PLT
11.7 g/dl	190.500/mmc	1.600/mmc	104.030/mmc	70.000/mmc

w3

Hb	WBC	Ne	Ly	PLT
11.8 g/dl	255.000/mmc	6.500/mmc	239.000/mmc	79.000/mmc

w5

Hb	WBC	Ne	Ly	PLT
12.1 g/dl	200.000/mmc	7.200/mmc	184.000/mmc	88.000/mmc

JUNE 2023**w8**

Hb	WBC	Ne	Ly	PLT
7.8 g/dl	151.000/mmc	8.000/mmc	137.000/mmc	89.000/mmc

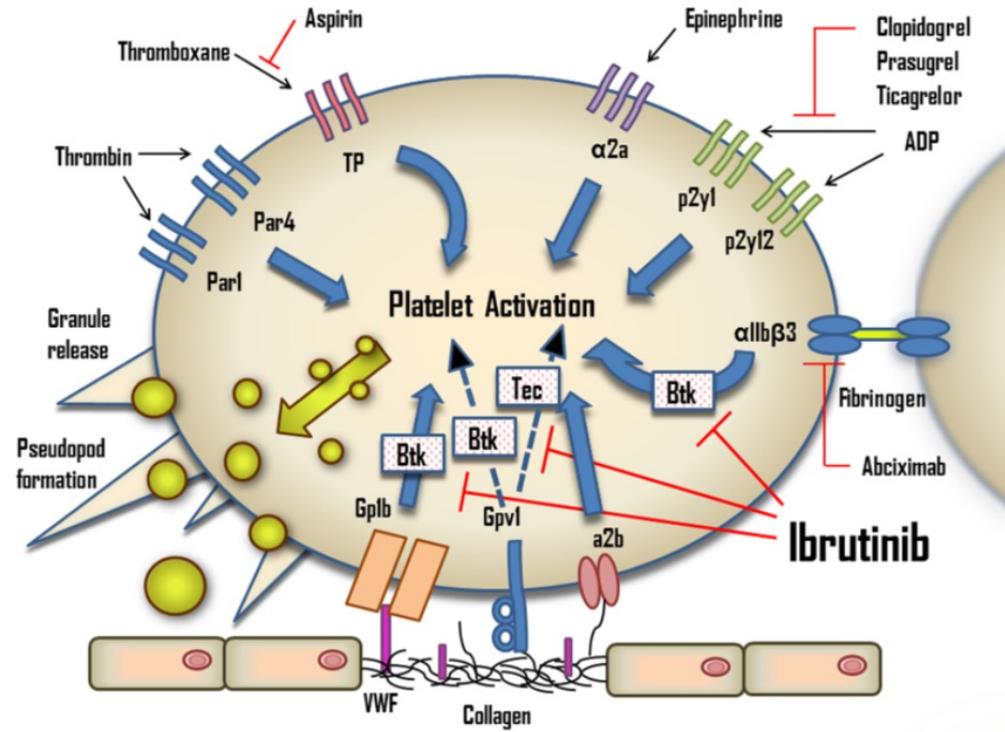
**OCCURRENCE OF SPONTANEOUS SKIN HEMATOMA IN
THE HIP REGION
GRADE 3**



**TEMPORARY IBRUTINIB WITHDRAWAL (15 DAYS)
SUPPORTIVE CARE - TRANSFUSION**



PATHOPHYSIOLOGY OF IBRUTINIB-ASSOCIATED BLEEDING



JULY 2023

w10

RESOLUTION OF SKIN HAEMATOMA



RE-START IBRUTINIB AT DOSE OF 280 MG

AUGUST 2023**w13**

Hb	WBC	Ne	Ly	PLT
7.9 g/dl	90.000/mmc	4.000/mmc	68.000/mmc	92.000/mmc

**2° EPISODE OF SPONTANEOUS SKIN HEMATOMA IN THE
HIP REGION
GRADE 3**



- **DEFINITIVE IBRUTINIB WITHDRAWAL**
- **SUPPORTIVE CARE - TRANSFUSION**

DATA FROM CLINICAL TRIALS

- The **majority** of reported bleeding events are **low** grade (Grade I-II).
- The most common bleeding phenotypes are **subcutaneous or mucosal bleeding**, including contusions, epistaxis, petechial bleeding, hematuria or ecchymosis.
- Major hemorrhage** (Grade III-IV) has been reported with rates varying **from 4% to 8%** in trials that followed patients for over a year with fatal hemorrhage occurring in less than 1% of patients (0.6–0.7%).
- Subdural hematoma is the most commonly reported form of central nervous system bleeding, though hemorrhagic conversion of ischemic stroke, subarachnoid hemorrhage after a fall and vitreous hemorrhage have also been reported.

Trial	Phase	Comparison	Median follow up	Any bleeding (%)	Grade 1–2 hemorrhage (%)	Major hemorrhage Grade III-IV (%)	Fatal hemorrhage (%)
Chanan-Kahn, Lancet 2016	Phase III	Ibrutinib R-Benda (n=287) Vs. R-Benda (N=287), CLL	17 mo	31% vs 15%	28% vs 9%	4% vs. 2%	0.6% vs 0
Burger, NEJM 2015	Phase III	Ibrutinib (N=136) Vs. Chlorambacil (N=133), CLL	18.4 mo	Not Reported	Not Reported	4% vs. 2%	0 vs 0
Byrd, NEJM 2014	Phase III	Ibrutinib (N=195) Vs. Ofatumumab (N= 196), CLL	9.4 mo	44% vs 12%	27% vs 10%	1% vs 2%	0 vs 0
Dreyling, Lancet 2016	Phase III	Ibrutinib (N=139) Vs. temsirolimus (N= 141), MCL	20 mo	Not Reported	Not Reported	10%vs 6%	0 vs 0
Byrd, Blood 2015	Phase II	Ibrutinib (N=132) CLL	36 mo	61%	53%	8%	0.7%(1)
Wang, Blood 2015	Phase II	Ibrutinib (N= 111) MCL	26.7 mo	50%	44%	6%	0

WHAT TO DO NEXT?

- WATCH AND WAIT
- EARLY DISEASE EVALUATION



- HIGH BURDEN OF DISEASE
- UNFAVORABLE RISK

SEPTEMBER 2023

RE-EVALUATION

Hb	WBC	Ne	Ly	PLT
10.2 g/dl	111.000/mmc	5.000/mmc	75.000/mmc	82.000/mmc

- **ABDOMEN ULTRASOUND:** spleen bp dm 18 cm
- **LYMPH NODES ULTRASOUND:** paracaval-, periaortic- and bilateral peri-iliac lymph node dm max 5,5 cm

SUGGESTED TREATMENT REGIMENS^{a,b,c,d}
CLL/SLL with del(17p)/TP53 mutation
 (alphabetical by category)

CIT is not recommended since del(17p)/TP53 mutation is associated with low response rates.

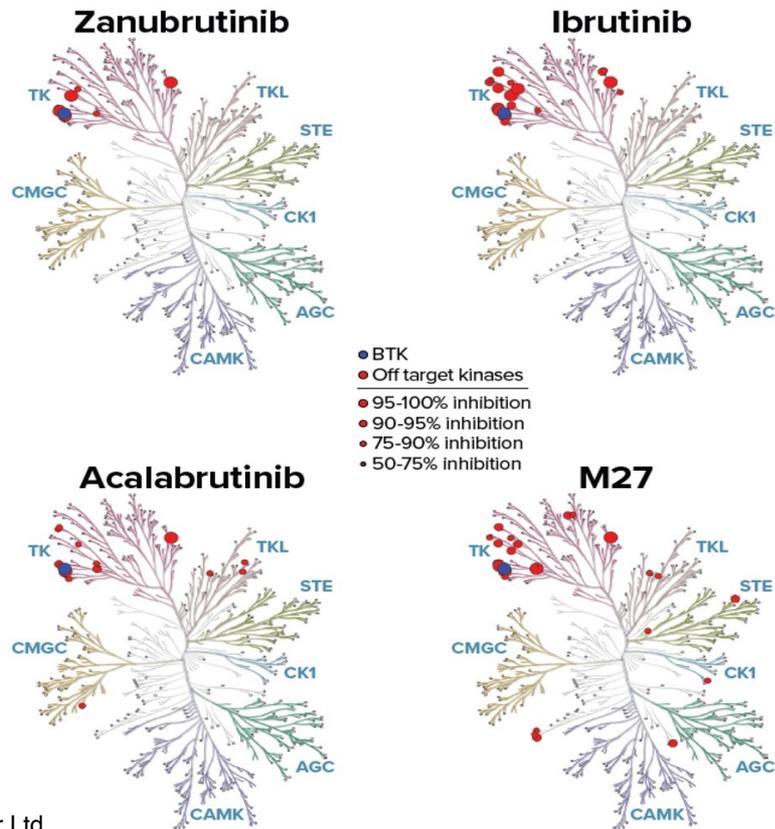
FIRST-LINE THERAPY ^e	
<u>Preferred regimens</u>	<u>Other recommended regimens</u>
<ul style="list-style-type: none"> • Acalabrutinib^{f,*} ± obinutuzumab • Venetoclax^{f,g} + obinutuzumab • Zanubrutinib^{f,*} 	<ul style="list-style-type: none"> • Alemtuzumab^t ± rituximab • HDMP + rituximab • Ibrutinib^{f,h,*} • Obinutuzumab • Ibrutinib⁺ + venetoclax^{f,g} (category 2B)

Zanubrutinib is approved by FDA since January 2023 and it is available for compassionate use in Italy

BGB-3111-215 – UPDATED ANALYSIS

Zanubrutinib showed better **selectivity** than Ibrutinib and Acalabrutinib and its metabolite M27

Zanubrutinib has a favourable **tolerability** profile in patients previously intolerant to ibrutinib and/or acalabrutinib



Reprinted from Shadman M, et al. Lancet Haematol. 2023;10(1):e35-e45. Copyright © 2022 Elsevier Ltd.,

1. Burger JA. Cancer J. 2019;25(6):386-393. 2. Stephens DM, Byrd JC. Blood. 2019;133(12):1298-1307. 3. Guo Y, et al. J Med Chem. 2019;62(17):7923-7940. 4. Shadman M, et al. Lancet Haematol. 2023;10(1):e35-e45. 5. Shadman M, et al. Blood. 2021;138(suppl 1):1410-1413..

Shadman M et al. Poster presented at EHA 2023; abstract number: P683

Trial Design

BGB-3111-215

PHASE 2

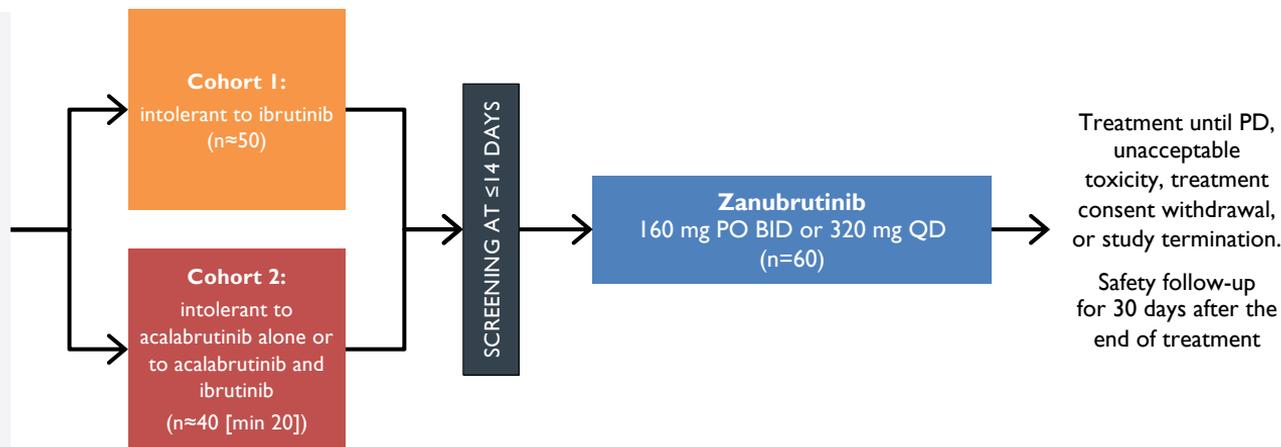
Study Identifier: BGB-3111-215,
NCT04116437

Primary Endpoint: Investigator-assessed recurrence and change in severity of ibrutinib or acalabrutinib intolerance events*
Key Secondary Endpoints: ORR, DoR, PFS and HRQoL

KEY ELIGIBILITY CRITERIA

- Previously treated CLL/SLL, WM, MCL or MZL patient intolerant of ibrutinib and/or acalabrutinib†
- ≥18 years old
- Indication for treatment per iwCLL prior to ibrutinib
- Ibrutinib- and/or acalabrutinib intolerant in opinion of investigator‡
- Ibrutinib- and/or acalabrutinib-related toxicities resolved to Gr ≤1 or baseline
- ECOG PS ≤2
- ANC ≥1000/mm³ and platelet count ≥50,000/mm³
- No documented PD during ibrutinib and/or acalabrutinib treatment§
- No clinically significant cardiovascular disease

TREATMENT

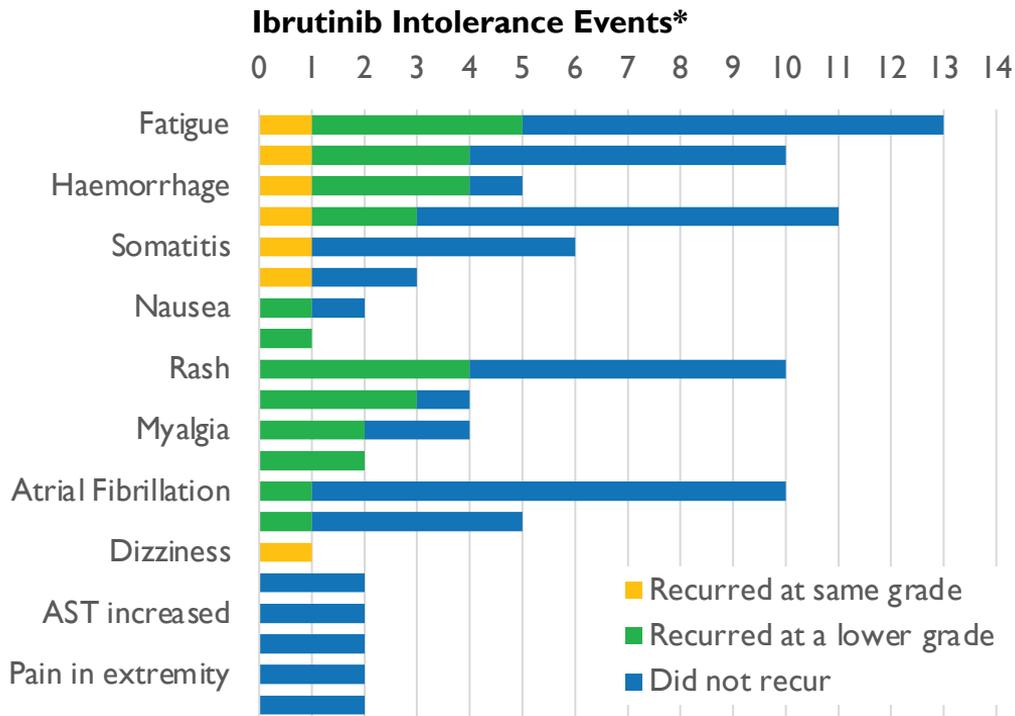


*TEAEs of interest: arthralgia, atrial fibrillation, diarrhea, fatigue, hemorrhage, hypertension, muscle spasms, myalgia, rash. †There is a ≥7-day washout period for any anticancer therapy and a ≥4-week washout period for immunotherapy, taken alone or as part of a chemoimmunotherapy regimen. ‡Intolerance is defined as an unacceptable toxicity where, in the opinion of the investigator, treatment should be discontinued in spite of optimal supportive care as a result of: Grade ≥2 non-hematologic toxicities for >7 days; Grade ≥3 non-hematologic toxicity of any duration; Grade 3 neutropenia with infection or fever; or Grade 4 hematologic toxicity that persists until ibrutinib therapy is discontinued due to toxicity NOT until progression. §A disease flare meeting PD criteria while the patient is off ibrutinib and/or acalabrutinib treatment is not considered to be true PD
ANC=absolute neutrophil count, BID=twice daily, BTK=Bruton tyrosine kinase inhibitor, CLL=chronic lymphocytic leukemia, DoR=duration of response, ECOG PS=Eastern Cooperative Oncology Group performance status, Gr=grade, HRQoL=health-related quality of life, iwCLL=International Workshop on CLL, MCL=mantle cell lymphoma, MZL=marginal zone lymphoma, ORR=overall response rate, PD=progressive disease, PFS=progression-free survival, PO=per oral, QD=once daily, SLL=small lymphocytic lymphoma, TEAE=treatment-emergent adverse event, WM=Waldenström's macroglobulinemia.



Recurrence and Change in Severity of Ibrutinib Intolerance Events During Treatment with Zanubrutinib

BGB-3111-215



- ▶ Most (37 [60%]) ibrutinib treated patients (in either cohort) did not have a recurrence of their ibrutinib intolerance event
 - ▶ 70% of intolerance events (81/115) did not recur
 - ▶ 30% intolerance events (34/115) recurred
 - ▶ None recurred at a higher severity
 - ▶ Most (27 [79%]) events recurred at a lower severity
 - ▶ Most (12 [92%]) grade 3 events recurred at a lower severity and no grade 4 events recurred
- ▶ Median time to first recurrence of an ibrutinib intolerance event was 61 days (IQR 21–106)
- ▶ 6 patients who experienced an ibrutinib intolerance event discontinued zanubrutinib
 - ▶ No recurrent ibrutinib intolerance event resulted in treatment discontinuation

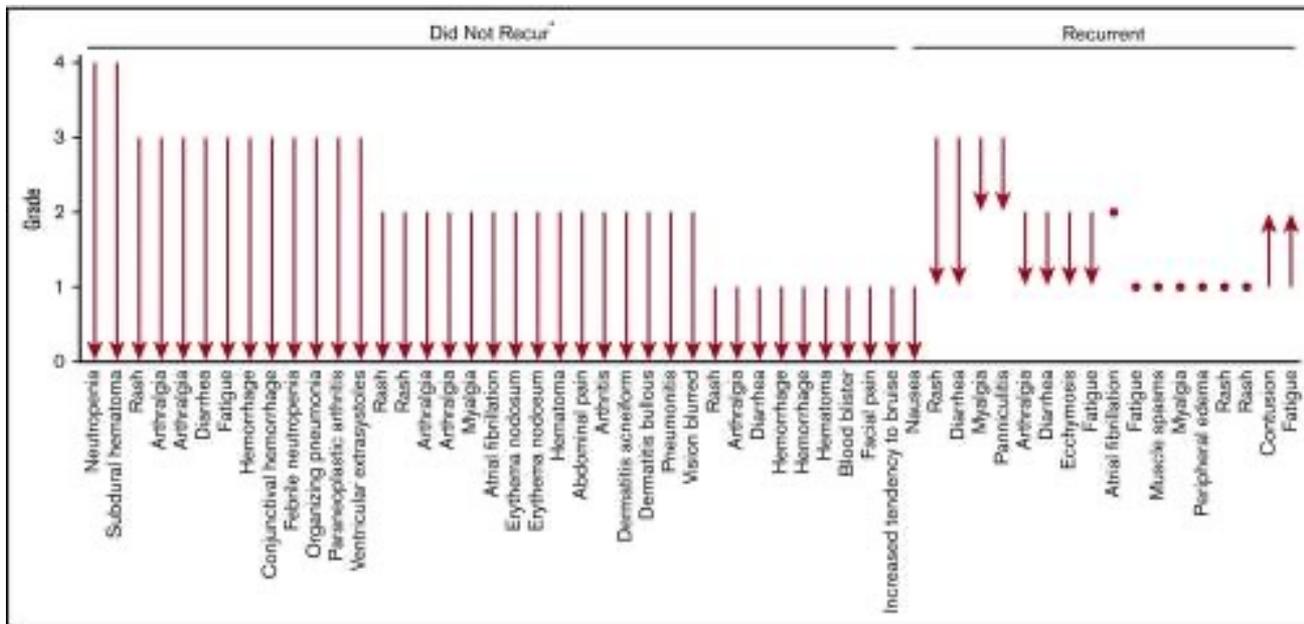
Investigator-Assessed Responses in Patients with >90 days follow-up

BGB-3111-215

- ▶ Among 64 efficacy-evaluable patients:
 - ▶ 60 (93.8%;95% CI 84.8–98.3) had disease control
 - ▶ 41 (64.1%; 51.1–75.7) had an overall response
- ▶ Median time to first response (better than SD) was 3.0 months (IQR 2.8–5.7)
- ▶ Median DoR was not reached
 - ▶ 12-month event-free duration of response rate was 95.0% (95% CI 69.5–99.3)
- ▶ Median PFS was not reached
 - ▶ 18-month PFS was 83.8% (95% CI 62.6–93.6)

	Cohort 1 Ibrutinib intolerance (n=57)	Cohort 2 Acalabrutinib or acalabrutinib & ibrutinib intolerance (n=7)	Total (n=64)
DCR (SD or better)	54 (94.7% [85.4–98.9])	6 (85.7% [42.1–99.6])	60 (93.8% [84.8–98.3])
ORR (better than SD)	36 (63.2% [49.3–75.6])	5 (71.4% [29.0–96.3])	41 (64.1% [51.1–75.7])
BOR rate			
PR-L or better*	36 (63%)	5 (71%)	41 (64%)
SD	18 (32%)	1 (14%)	19 (30%)
PD	1 (2%)	1 (14%)	2 (3%)
Not done	2 (4%)†	0	2 (3%)
Months to BOR‡	5.5 (2.8–8.3)	7.9 (5.9–8.4)	5.6 (2.8–8.3)
Months to first overall response	2.9 (2.7–5.6)	3.0 (2.9–7.9)	3.0 (2.6–11.1)

Acalabrutinib monotherapy in patients with chronic lymphocytic leukemia who are intolerant to ibrutinib



Of the 10 bleeding events that occurred during ibrutinib treatment and resulted in intolerance, 2 (contusion and ecchymosis) recurred during acalabrutinib treatment.

Richiesta autorizzazione uso compassionevole per Zaunbrutinb