

Supplemental Appendix

ASPEN Investigators

Australia	Constantine Tam	Netherlands	Monique Minnema
	Gavin Cull		Marie José Kersten
	Hui-Peng Lee	Spain	Albert Oriol Rocafiguera
	Trish Walker		Mario Arnao Herraiz
	Paula Marlton		Carlos Fernandez De Larrea
	Stephen Opat		Mercedes Gironella Mesa
	Hannah Rose		Miquel Granell Gorrochatequi
	Stephen Mulligan		Elham Askari
	Xavier Badoux		Ramon Garcia Sanz
	Dipti Talaulikar		Anna Sureda Balari
France	Anne-Sophie Michallet		Sweden
	Veronique Leblond	United Kingdom	Roger Owen
Germany	Christian Buske		Simon Rule
	Gabriele Kafer		Mark Bishton
Italy	Alberto Bosi		Helen McCarthy
	Luca Nassi		Shirley D'Sa
	Marina Motta		Jaimal Kothari
	Alessandra Tedeschi		Rebecca Auer
	Stefano Volpetti		Czech Republic
	Luca Laurenti	Roman Hajek	
	Pier Luigi Zinzani	David Belada	
	Lorella Orsucci	Greece	Meletios Dimopoulos
	Marzia Varettoni	United States	Luke Dreisbach
Monica Tani	Edward Libby		
Michela Ceccolini	Patrick Johnston		
Poland	Jaroslawn Czyz		John Allan
	Sebastian Grosicki		Tanya Siddiqi
	Wojciech Jurczak		Jeffrey Matous
	Janusz Kloczko	Ian Flinn	
	Andrzej Pluta	Jorge Castillo	
		Craig Reeder	

Assay methodology for *MYD88* and *CXCR4* mutation analysis

MYD88 mutational status was analyzed on baseline bone marrow aspirates without CD-19+ cell selection using a proprietary, PCR-based assay that employs locked oligonucleotides to block amplification of *MYD88* wild-type (WT) DNA during PCR followed by bidirectional Sanger sequencing of the amplicon.¹ This approach captures all mutations from amino acids 260 to 278 in the Toll/IL-1R (TIR) binding domain of *MYD88* with a 0.2%–0.5% limit of detection. Assay for the presence of non-L265P mutations in *MYD88* was performed using a next-generation sequencing method with a 0.5% limit of detection. Three patients (all zanubrutinib-treated and all TN) had 2nd missense mutations detected within the TIR binding domain: M232T, V217F, and P182L. Additional mutations were identified in non-TIR binding domains in 4 patients: D165del (R/R zanubrutinib patient); W91ter, G93ter (R/R ibrutinib patient); L72M (R/R zanubrutinib patient); and T107S, fs24ter (TN, zanubrutinib patient).

Mutations in *CXCR4* were detected using PCR, followed by bidirectional Sanger sequencing of the amplicon in non-CD19+ selected bone marrow aspirates. The lower limit of assay sensitivity allows detection of 10%–15% mutant alleles in a background of wild-type allele, and detects nonsense, frameshift, and other mutations from T318 to S341, which includes almost the full range of *CXCR4*^{WHIM} mutations previously reported. The table below summarizes the individual mutations identified (those in **bold** type have been previously described). *CXCR4* mutation analysis was conducted at Neogenomics, Inc., Aliso Viejo, CA, USA.

CXCR4 mutations were also detected using PredicineCARE™, a next-generation sequencing assay (Predicine, Inc., Hayward CA) targeting a panel of 152 genes including full exonic regions

Zanubrutinib vs Ibrutinib in WM

Tam et al. – Final draft

of CXCR4. Genomic DNA from bone marrow samples was extracted, enzymatically fragmented and purified. Up to 30ng fragmented DNA were used for library preparation, capture, sequencing and data analysis, as described previously.^{2,3} Data were analyzed using a proprietary bioinformatics pipeline (Predicine, Inc, Hayward, CA) and CXCR4 mutations with allelic frequencies $\geq 0.25\%$ were reported.

1. Albitar A, Ma W, DeDios I, Estella J, Agersborg S, Albitar M. Positive selection and high sensitivity test for MYD88 mutations using locked nucleic acid. *Int J Lab Hematol*. 2016;38(2):133-140
2. Kohli et al. Clinical and Genomic Insights Into Circulating Tumor DNA-based Alterations Across the Spectrum of Metastatic Hormone-Sensitive and Castrate-Resistant Prostate Cancer. *EBioMedicine*. 2020 Apr;54:102728.
3. Fettke et al. Combined Cell-free DNA and RNA Profiling of the Androgen Receptor: Clinical Utility of a Novel Multianalyte Liquid Biopsy Assay for Metastatic Prostate Cance. *Eur Urol*. 2020 May 30;S0302-2838(20)30219-0

Zanubrutinib vs Ibrutinib in WM

Tam et al. – Final draft

The table below summarizes the individual mutations identified either by the Next Generation Sequencing Method, Sanger Sequencing Method or both (those in **bold** type have been previously described):

Mutation type:	Nucleotide change:	Amino acid change:	No. (treatment assignment) of patients with mutation detected by NGS:	No. (treatment assignment) of patients with mutation detected by Sanger Sequencing:
FS	952_956del	Thr318Cysfs	2 (zanubrutinib)	Not Detected
FS	952dup	Thr318Asnfs	1 (zanubrutinib); 2 (ibrutinib)	1 (ibrutinib)
FS	954del	Ser319Leufs	1 (zanubrutinib)	Not Detected
FS	956_957del	Ser319Cysfs	1 (zanubrutinib)	1 (zanubrutinib)
FS	963dup	Arg322Glnfs	1 (zanubrutinib)	Not Detected
FS	965dup, 1012_1015del	Gly323Argfs, Ser338Leufs	1 (ibrutinib, 2 mutations)	Not Detected
FS	976dup	Leu326Profs	1 (ibrutinib)	1 (ibrutinib)
FS	988_989del	Ser330Glnfs	1 (zanubrutinib)	1 (zanubrutinib)
NS	1000C>T	Arg334*	2 (zanubrutinib)	1 (zanubrutinib)
NS	1003_1025del	Gly335*	1 (zanubrutinib)	Not Detected
FS	1007_1013del	Gly336Aspfs	1 (zanubrutinib)	Not Detected
FS	1007dup	His337Thrfs	1 (zanubrutinib)	1 (zanubrutinib)
FS	1009_1010insCTCCA	His337Profs	1 (zanubrutinib)	Not Detected
FS	1010_1011del	His337Leufs	1 (zanubrutinib)	Not Detected
FS	1012dup	Ser338Phefs	2 (zanubrutinib)	Not Detected
FS	1013_1020del	Ser338Phefs	1 (ibrutinib)	Not Detected

Zanubrutinib vs Ibrutinib in WM

Tam et al. – Final draft

NS	1013C>A	Ser338*	9 (5 zanubrutinib; 4 ibrutinib)	4 (2 zanubrutinib; 2 ibrutinib)
NS	1013C>G	Ser338*	14 (5 zanubrutinib; 9 ibrutinib)	4 (3 zanubrutinib; 1 ibrutinib)
FS	1014_1018del	Ser339Phefs	1 (zanubrutinib)	Not Detected
FS	1017dup	Val340Cysfs	1 (zanubrutinib)	1 (zanubrutinib)
FS	1018_1022del	Val340Hisfs	1 (zanubrutinib)	1 (zanubrutinib)
FS	1021_1022del	Ser341Hisfs	1 (zanubrutinib)	Not Detected
FS	1021del	Ser341Profs	2 (1 zanubrutinib; 1 ibrutinib)	Not Detected
FS	1021dup	Ser341Phefs	2 (1 zanubrutinib; 1 ibrutinib)	1 (ibrutinib)
NS	1032dup	Glu345*	1 (zanubrutinib)	Not Detected
FS	1012_1013insT	S338Ffs	quality control failure	1 (ibrutinib)
Deletion		S338 S352 deletion	Not Detected	1 (ibrutinib)

Abbreviations: FS, frameshift; NS, nonsense; ins, insertion; del deletion; NGS, next generation sequencing.

Supplemental Tables

Supplemental Table 1. Zanubrutinib treatment-modification guidelines for toxicity.

Toxicity	Modification
Hematologic toxicities	<p>Zanubrutinib was interrupted for hematologic toxicity suspected to be study drug-related under any of the following conditions:</p> <ul style="list-style-type: none"> • Grade 4 neutropenia (lasting >10 days despite the use of growth factors) or grade ≥ 3 febrile neutropenia • Grade 4 thrombocytopenia (lasting >10 days) or grade ≥ 3 thrombocytopenia associated with significant bleeding <p>After a first occurrence, zanubrutinib may have been restarted at full dose upon recovery of the toxicity to grade ≤ 1 or baseline. If the same event recurred, patients restarted at 1 dose level lower (80 g BID) upon recovery of the toxicity to grade ≤ 1 or baseline. If the event recurred at 80 mg BID, zanubrutinib was once again interrupted until recovery to grade ≤ 1 or baseline and restarted at 80 mg QD. A maximum of 2 dose reductions was allowed.</p>
Non-hematologic Toxicities	<p>For grade ≥ 3 non-hematologic toxicities (other than hypertension adequately controlled with oral medication or asymptomatic laboratory events [laboratory events indicating liver or renal dysfunction were not considered asymptomatic laboratory events]) suspected to be study drug-related, zanubrutinib was interrupted until recovery to grade ≤ 1 or baseline, then restarted at the original dose level.</p> <ul style="list-style-type: none"> • If the event recurred at grade ≥ 3, zanubrutinib was interrupted until recovery to grade ≤ 1 or baseline and restarted at 80 mg BID • If the event recurred at grade ≥ 3, zanubrutinib was once again interrupted until recovery to grade ≤ 1 or baseline and restarted at 80 mg QD. If the event recurred at grade ≥ 3 at 80 mg QD, zanubrutinib treatment was discontinued. For patients experiencing atrial fibrillation that was symptomatic and/or incompletely controlled, zanubrutinib may have been restarted at either the original dose or 80 mg BID, per the investigator's discretion, after the atrial fibrillation was adequately controlled. • Zanubrutinib was interrupted for any grade $3 \geq$ bleeding • The drug was permanently discontinued for any treatment-related grade ≥ 3 hemorrhage with the exception of those where the underlying condition could be fully treated (eg, gastric ulcer resulting in gastrointestinal bleed) and the risk of a rebleed was deemed acceptable. For any intracranial hemorrhage, regardless of grade or relationship to the study drug, the study drug was held and the risk of rebleeding was assessed. If the risk of rebleeding was deemed unacceptable, zanubrutinib was permanently discontinued. Zanubrutinib was not resumed unless event resolution was demonstrated by computed tomography (CT) scan or MRI, the risk of rebleeding was deemed low, and the patient did not have a need for concurrent anti-thrombotic medications (except low-dose aspirin or low-molecular-weight heparin used to prevent venous thromboembolism). Study drug resumption only occurred after a discussion and approval by the study medical monitor.

Supplemental Table 2. Reasons for unsuitability for standard immunochemotherapy among treatment-naïve patients enrolled in the ASPEN study.

Reason(s)*	Ibrutinib (n=18) n (%)	Zanubrutinib (n=19) n (%)	Total (N=37) n (%)
Age	13 (72)	14 (74)	27 (73)
Co-morbidity:			
Cardiac	3 (17)	5 (26)	8 (22)
Renal	2 (11)	2 (11)	4 (11)
Infection	1 (6)	1 (5)	2 (5)
Other	5 (28)	2 (11)	7 (19)

* Patients may have multiple reasons for unsuitability.

Supplemental Table 3:. Response assessment criteria.*

Response category	Definition
Complete response (CR)	Normal serum IgM values <ul style="list-style-type: none"> • Disappearance of monoclonal protein by immunofixation • No histological evidence of bone marrow involvement • Complete resolution of lymphadenopathy/splenomegaly (if present at baseline)^{a,b}
Very good partial response (VGPR)	Monoclonal IgM protein is detectable <ul style="list-style-type: none"> • $\geq 90\%$ reduction in serum IgM level from baseline^a or normal serum IgM values • Improvement in lymphadenopathy/splenomegaly if present at baseline^{a,b} • No new signs or symptoms of active disease
Partial response (PR)	<ul style="list-style-type: none"> • $\geq 50\%$ reduction of serum IgM from baseline • Reduction in lymphadenopathy/splenomegaly (if present at baseline)^{a,b}
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: <ul style="list-style-type: none"> • Confirmed, $\geq 25\%$ increase in serum IgM and total on-treatment increase of ≥ 500 mg/dL from nadir^c • New lymph node(s) > 1.5 cm, or $\geq 50\%$ increase from nadir in the sum of the product of diameter (SPD) of > 1 node, or $\geq 50\%$ increase in longest diameter of a previously identified node • New splenomegaly or $\geq 50\%$ increase from nadir in enlargement • New extranodal disease • New or recurrent involvement in bone marrow • New symptomatic disease

*Adapted from criteria established at the Sixth International Workshop on Waldenström's Macroglobulinemia as reported by Owen et al 2013.²³ Sequential changes in IgM levels (separated by at least 4 weeks) assessed nephelometrically were employed for the quantitative serum immunoglobulin level measurements, unless due to assay limitations, this was not possible, in which case the M-paraprotein level by serum protein electrophoresis was used.

^a For response assessments that occur in cycles that do not require imaging studies, results from prior scans performed up to 12 weeks during the first 48 weeks of study and up to 24 weeks thereafter can be carried forward in subjects with extramedullary disease at baseline.

^b If only physical examination (PE) findings of extramedullary disease are assessable and indicative of unequivocal improvement from baseline (enlarged spleen and/or palpable lymph nodes have regressed), reduction in extramedullary disease can be assessed by PE alone.

^c An assessment of IgM flare will be assigned instead of PD after study drug has been held at least 7 consecutive days and there is a rapid rise in serum IgM level (or an increase in known extramedullary disease for response assessments that include extramedullary disease evaluation) that might otherwise lead to an "apparent" response of PD. The period that this is applicable begins on the day of the first missed dose and ends when the patient has IgM levels or extramedullary disease that no longer qualify as apparent PD (eg, there is a drop in IgM level below 25% and < 500 mg/dL from nadir) or the subject has a confirmed response of PD, whichever comes first.

Supplemental Table 4. Adverse events of interest categories

Adverse events of interest were identified in accordance with predefined MedDRA (Version 22.0) search criteria (see below) and categorized into the following categories of BTK-associated toxicities:

Adverse event of interest category	Search criteria
Hemorrhage	Hemorrhage terms (excluding laboratory terms) (SMQ) narrow
Major hemorrhage - Defined as serious or grade ≥ 3 bleeding at any site, or central nervous system bleeding of any grade	Major hemorrhage: <ul style="list-style-type: none"> • Subdural hematoma PT, subdural hemorrhage PT • All hemorrhage PTs if adverse event SOC is “Nervous system disorders” or • Serious or \geq grade 3 hemorrhage PT if adverse event SOC is not “Nervous system disorders”
Atrial fibrillation and/or flutter	Atrial fibrillation PT, atrial flutter PT
Hypertension	Hypertension (SMQ) narrow
Second primary malignancies Skin cancers	Malignant tumors (SMQ) narrow Subcategory - skin malignant tumors (SMQ) narrow
Tumor lysis syndrome	Tumor lysis syndrome (SMQ) narrow
Infection Opportunistic infections	Infections: infections and infestations SOC Subcategory - opportunistic infections: opportunistic infections (CMQ)
Neutropenia	Neutropenia PT, neutrophil count decreased PT, febrile neutropenia PT, agranulocytosis PT, neutropenic infection PT, neutropenic sepsis PT
Thrombocytopenia	Thrombocytopenia PT, platelet count decreased PT
Anemia	Anemia PT, hemoglobin decreased PT

Abbreviations: PT, preferred term; SMQ, standard MedDRA query; CMQ, company MedDRA query.

Supplemental Table 5. Reasons for initiation of study therapy

	Relapsed/Refractory		Treatment-naive		Overall		Total (N=201)
	Ibrutinib (n=81)	Zanubrutinib (n=83)	Ibrutinib (n= 8)	Zanubrutinib (n=19)	Ibrutinib (n=99)	Zanubrutinib (n=102)	
Clinical indications, n (%)							
Fatigue	47 (58)	44 (53)	10 (56)	14 (74)	57 (58)	58 (57)	115 (57)
B-symptoms ^a	22 (27)	29 (35)	4 (22)	6 (32)	26 (26)	35 (34)	61 (30)
Hyperviscosity	19 (24)	20 (24)	8 (44)	7 (32)	27 (27)	27 (27)	54 (27)
Peripheral neuropathy due to WM	17 (21)	18 (22)	4 (22)	6 (32)	21 (21)	24 (24)	45 (22)
Symptomatic or bulky lymphadenopathy ^b	7 (9)	10 (12)	1 (6)	0	8 (8)	10 (10)	18 (9)
Symptomatic hepatomegaly and/or splenomegaly	4 (5)	2 (2)	2 (11)	0	6 (6)	2 (2)	8 (4)
Symptomatic organomegaly and/or organ or tissue infiltration	2 (3)	0	0	0	2 (2)	0	2 (1)
Laboratory indications, n (%)							
Hemoglobin ≤10 g/dL	30 (37)	36 (43)	10 (56)	12 (63)	40 (40)	48 (47)	88 (44)
Platelet count <100 x 10 ⁹ /L	12 (15)	11 (13)	0	1 (5)	12 (12)	12 (12)	24 (12)
Amyloidosis related to WM	6 (7)	9 (11)	3 (17)	3 (16)	9 (9)	12 (12)	21 (10)
Immune hemolytic anemia and/or thrombocytopenia	2 (3)	2 (2)	0	1 (5)	2 (2)	3 (3)	5 (3)
Symptomatic cryoglobulinemia	1 (1)	1 (1)	0	1 (5)	1 (1)	2 (2)	3 (2)
Neuropathy related to WM	2 (3)	0	1 (6)	1 (5)	3 (3)	1 (1)	4 (2)
Cold agglutinin anemia	0	0	0	1 (5)	0	1 (1)	1 (1)

^a Includes recurrent fever, night sweats, and weight loss.

^b Bulky is defined as ≥5 cm in maximal diameter.

Supplemental Table 6. Summary of prior systemic therapies for relapsed/refractory WM patients

Prior therapy, n (%)	Ibrutinib (n=81)	Zanubrutinib (n=83)
Number of prior systemic regimens		
1	46 (57)	47 (57)
2	15 (19)	15 (18)
3	13 (16)	14 (17)
4	2 (2)	4 (5)
5	3 (4)	0
≥6	2 (3)	3 (4)
Anti-CD20 (rituximab, ofatumumab)	74 (91)	75 (90)
Alkylating agents (cyclophosphamide, chlorambucil, bendamustine, ifosamide, lomustine, melphalan, cisplatin)	66 (82)	73 (88)
Glucocorticoids (dexamethasone, prednisone, prednisolone, methylprednisone, methylprednisolone, hydrocortisone)	50 (62)	60 (72)
Nucleoside analogues (fludarabine, cladribine, cytarabine, gemcitabine,)	18 (22)	20 (24)
Vinca alkaloids (vincristine, vinblastine, vinorelbine)	18 (22)	23 (28)
Proteasome inhibitors (bortezomib, ixazomib)	10 (12)	10 (12)
Anthracyclines (doxorubicin, epirubicin)	9 (11)	9 (11)
Kinase inhibitors (idelalisib, everolimus)	3 (4)	2 (2)
Immunomodulators (lenalidomide, thalidomide)	1 (1)	1 (1)
Topoisomerase inhibitors (etoposide)	1 (1)	2 (2)
Multi-agent regimens, including anti-CD20	0	1 (1)
Others (interferon, bleomycin, belimumab, methotrexate)	0	4 (5)

Abbreviations: BTK, Bruton tyrosine kinase; R/R, relapsed/refractory; WM, Waldenström macroglobulinemia.

* Categories of systemic therapies listed are not mutually exclusive (patients may have received agents from multiple different categories). Percentages may total more or less than 100 due to rounding.

Supplemental Table 7. Changes from baseline in log-transformed IgM levels for relapsed/refractory WM patients and overall

Parameter	Relapsed/Refractory		Overall	
	Ibrutinib (n=81)	Zanubrutinib (n=83)	Ibrutinib (n=99)	Zanubrutinib (n=101)
Slope over time (in months)	-0.06687	-0.07493	-0.06106	-0.06812
<i>P</i> value (2-sided) ^a	0.0358		0.0314	
AUC				
Top 25% percentile	851	1086	849	1030
Median	528	623	551	621
<i>P</i> value (2-sided) ^b	0.0243		0.0370	

^a From repeated measures, mixed effect model with time as continuous variable and treatment arm and time as fixed effects.

P value is for the interaction between treatment arm and time effects.

^b From Mantel-Haenszel test.

Abbreviation: AUC, area under the log₁₀ serum IgM concentration x time curve.

Supplemental Table 8. Serious AEs reported in >1 patient in either treatment arm and deaths due to adverse events

Event term, n (%)	Ibrutinib (n=98)	Zanubrutinib (n=101)
Pneumonia	9 (9)	1 (1)
Sepsis	3 (3)	2 (2)
Pyrexia	3 (3)	2 (2)
Atrial fibrillation/flutter	3 (3)	0 (0)
Cholecystitis	2 (2)	0 (0)
Loss of consciousness	2 (2)	0 (0)
Myocardial infarction	2 (2)	0 (0)
Pericarditis	2 (2)	0 (0)
Urinary tract infection	2 (2)	0 (0)
Influenza	1 (1)	3 (3)
Pleural effusion	1 (1)	2 (2)
Neutropenia	0 (0)	3 (3)
Febrile neutropenia	0 (0)	3 (3)
Anemia	0 (0)	2 (2)
Lower respiratory tract infection	0 (0)	2 (2)
Thrombocytopenia	0 (0)	2 (2)
Basal cell carcinoma	0 (0)	2 (2)

Deaths due to adverse events

Diagnosis sex/age (y)	Study treatment	MedDRA- preferred term (verbatim AE term)	Date of death <30 days of last dose	Comments
R/R WM M/85	Ibrutinib	Bacterial sepsis (Gram negative septicemia)	Yes	Death preceded by pneumonia, septic shock; history of hypertension, myocardial ischemia, atrial fibrillation
R/R WM M/84	Zanubrutinib	Cardiomegaly (Cardiomegaly)	Yes	History of hypertension, valvular and ischemic heart disease. Patient collapsed and died from complications of sudden cardiac arrest after an elective plasmapheresis performed in the setting of progressive disease.
R/R WM F/79	Ibrutinib	Sepsis (Sepsis)	Yes	Death preceded by pneumonia, urinary tract infection; history of hypertension, cardiac murmur.

Supplemental Table 9. Post-hoc Analysis of CR/VGPR and Major Response Rates Based on Next Generation Sequencing for Detection of *CXCR4*^{WHIM} Mutations ^a

Patients with NGS results for <i>CXCR4</i> mutation detection ^b	Ibrutinib N=92	Zanubrutinib N= 98
<i>CXCR4</i> ^{WHIM} , n (%)	20 (22)	33 (34)
VGPR, n (%)	2 (10)	6 (18)
Median time to VGPR, months	10.6	10.3
Major response, n (%)	13 (65)	23 (70)
Median time to major response, months	6.5	3.0
<i>CXCR4</i> ^{WT} , n (%)	72 (78)	65 (66)
VGPR, n (%)	17 (24)	22 (34)
Median Time to VGPR, months	7.4	4.7
Major response, n (%)	59 (82)	53 (82)
Median time to major response, months	2.8	2.8
Overall		
VGPR, n (%)	19 (21)	28 (29)
Major response, n (%)	72 (78)	76 (78)

^a Denominators represent the number of patients with *CXCR4* NGS results in each treatment arm/subgroup.

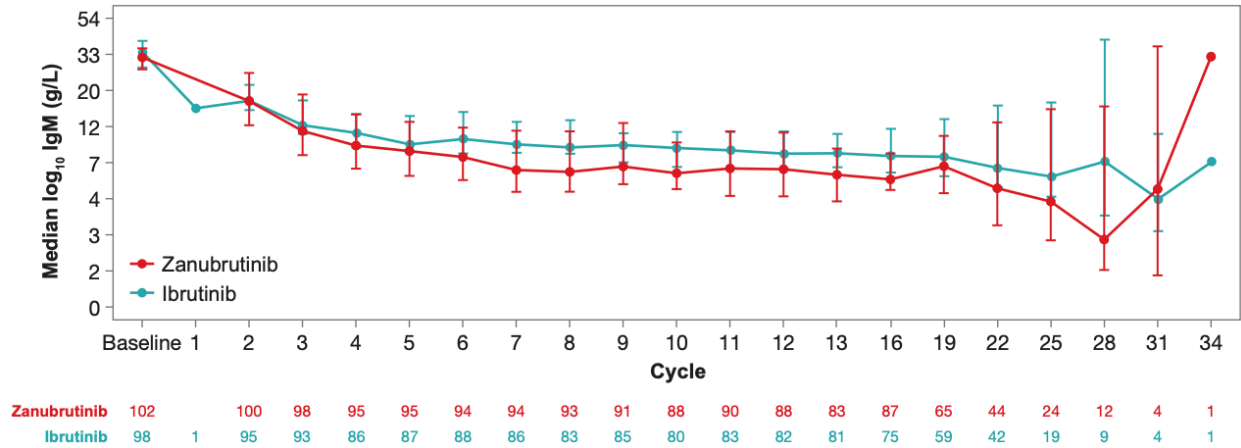
^b Seven ibrutinib- and 4 zanubrutinib-treated patients did not undergo re-assay for *CXCR4* mutation detection by NGS. Of these, 6 ibrutinib patients achieved a best response of PR and 2 zanubrutinib patients achieved a best response of VGPR and PR.

Abbreviations: VGPR, very good partial response; NGS, next generation sequencing; *CXCR4*, chemokine receptor 4

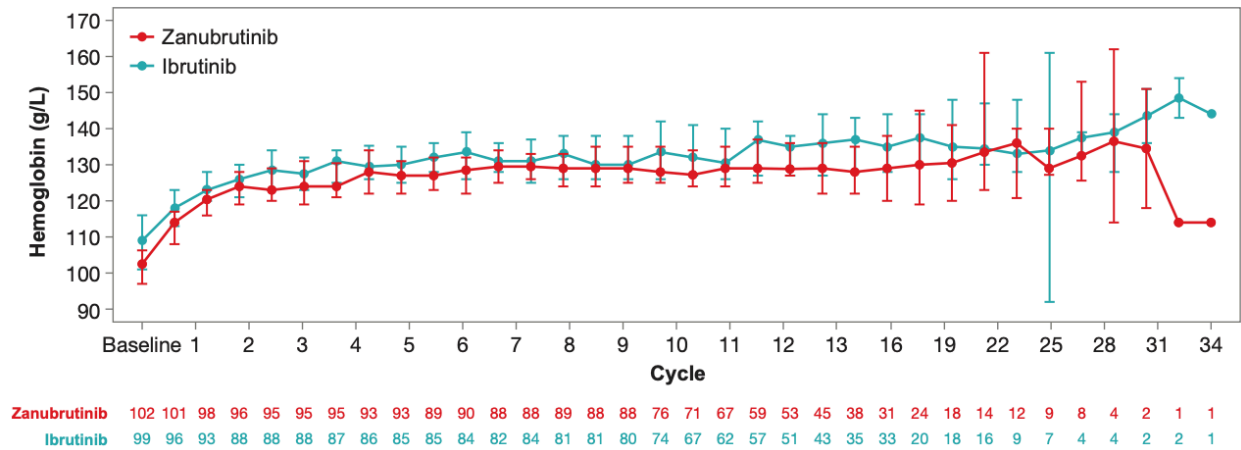
Supplemental Figures

Supplemental Figure 1. Changes in (A) IgM and (B) hemoglobin concentrations

(A) Changes in serum IgM levels over time by treatment arm

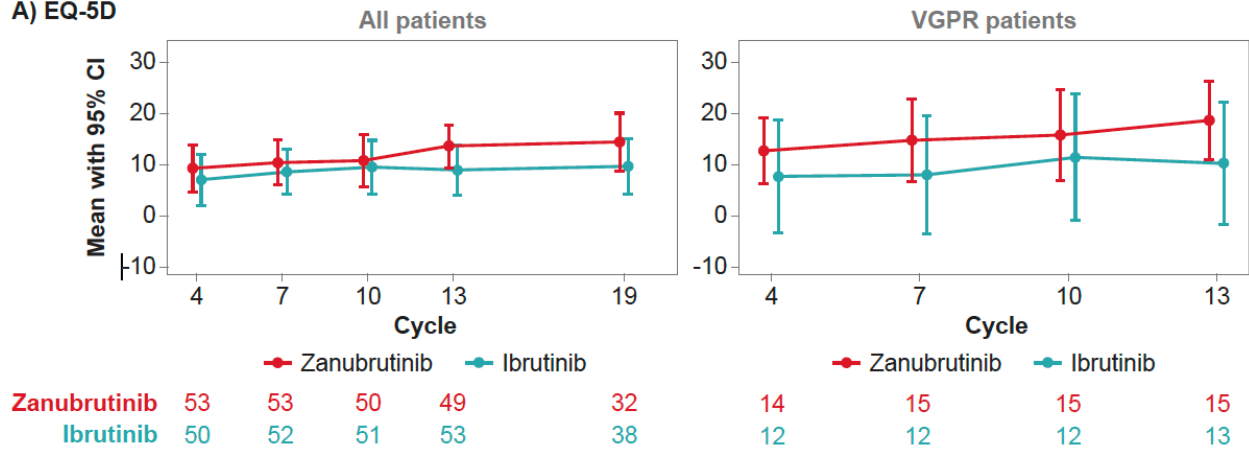


(B) Changes in hemoglobin concentrations over time by treatment arm

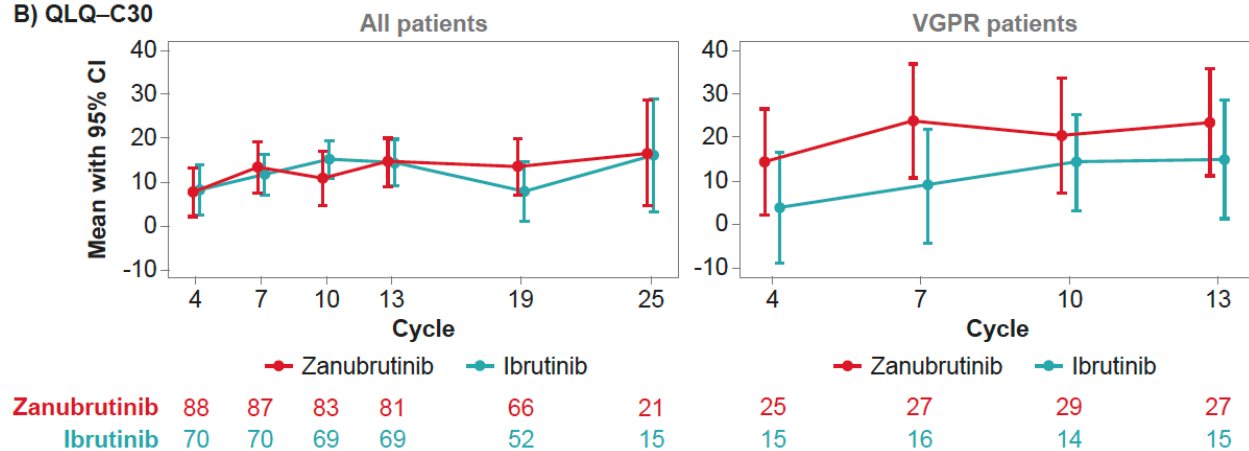


Supplemental Figure 2. Quality-of-life measures over time

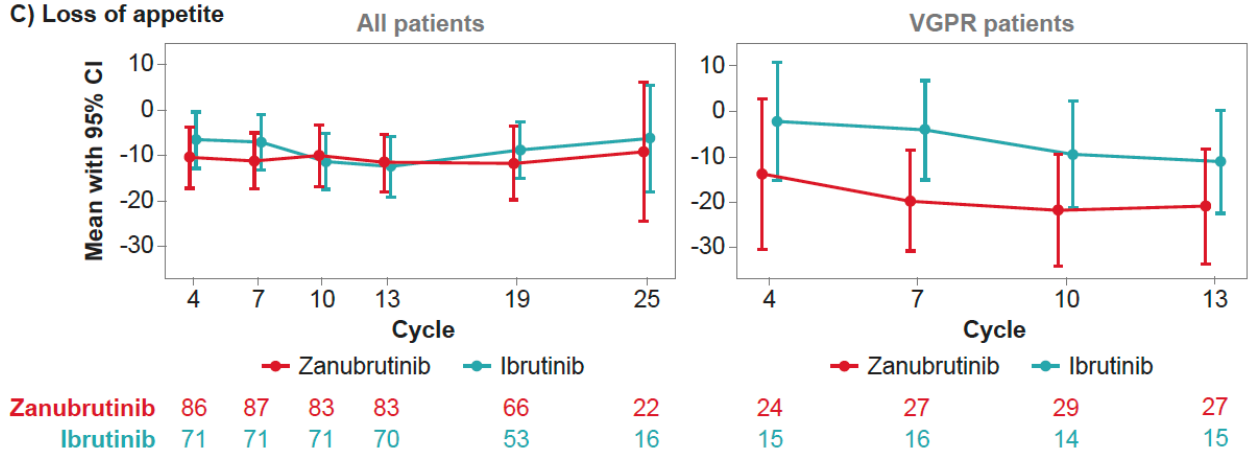
A) EQ-5D



B) QLQ-C30



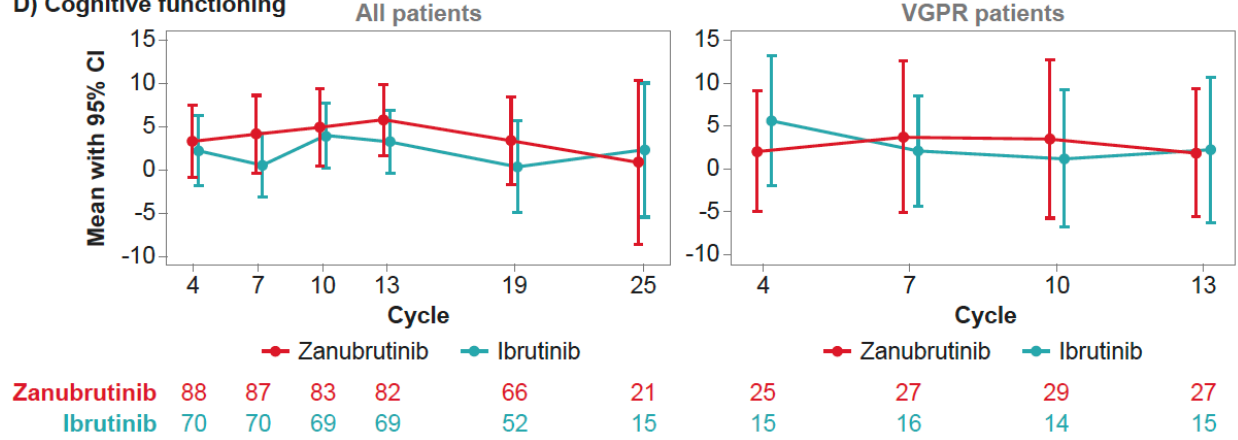
C) Loss of appetite



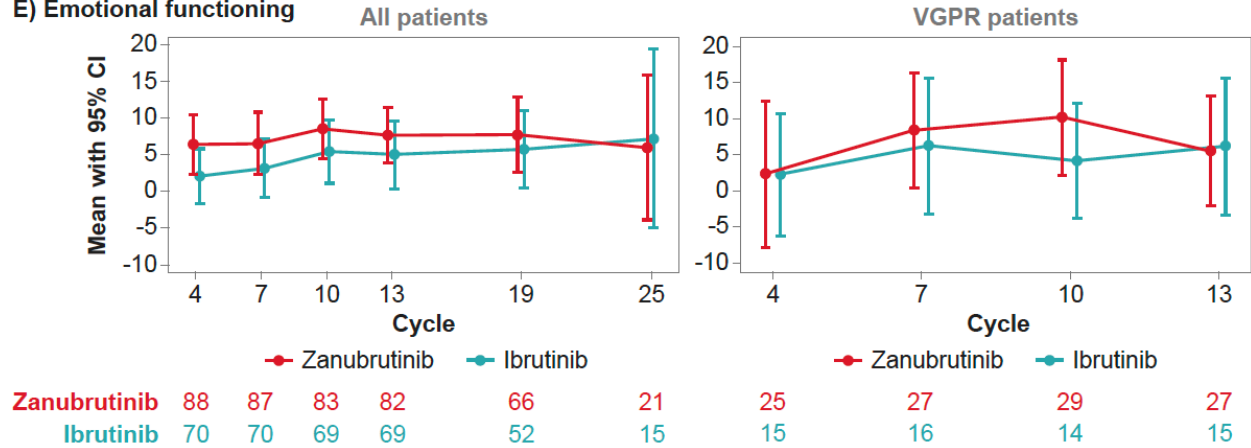
Zanubrutinib vs Ibrutinib in WM

Tam et al. – Final draft

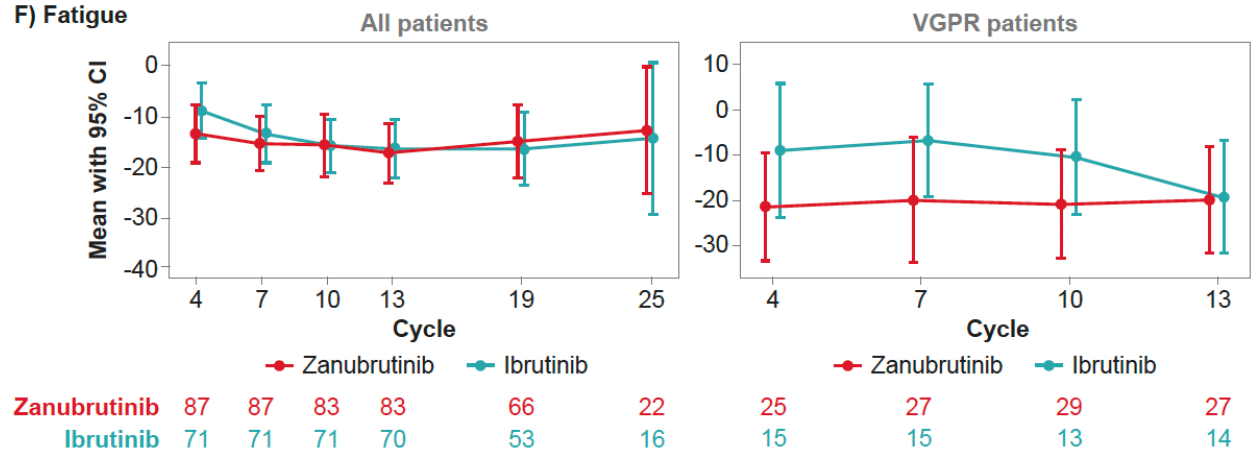
D) Cognitive functioning



E) Emotional functioning



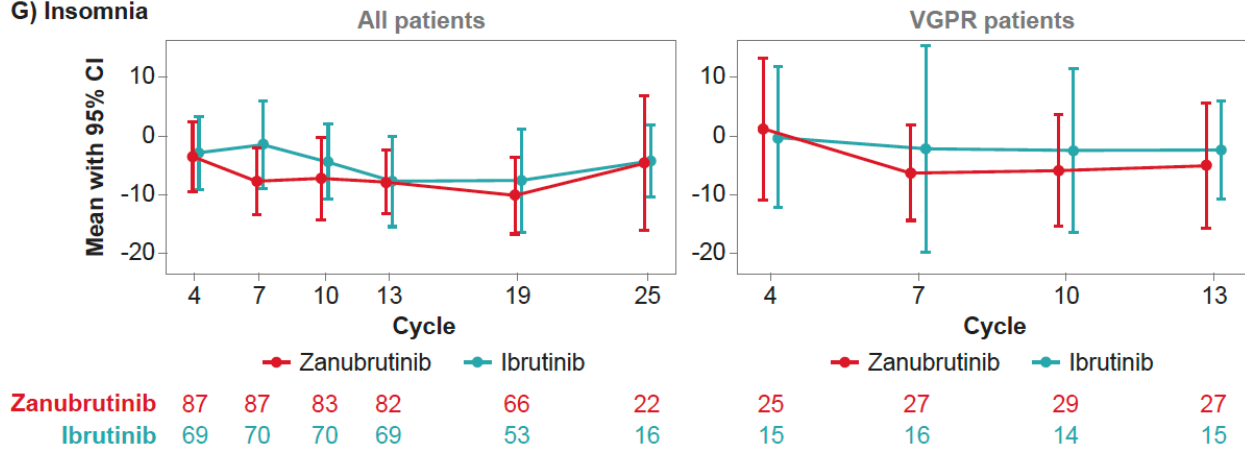
F) Fatigue



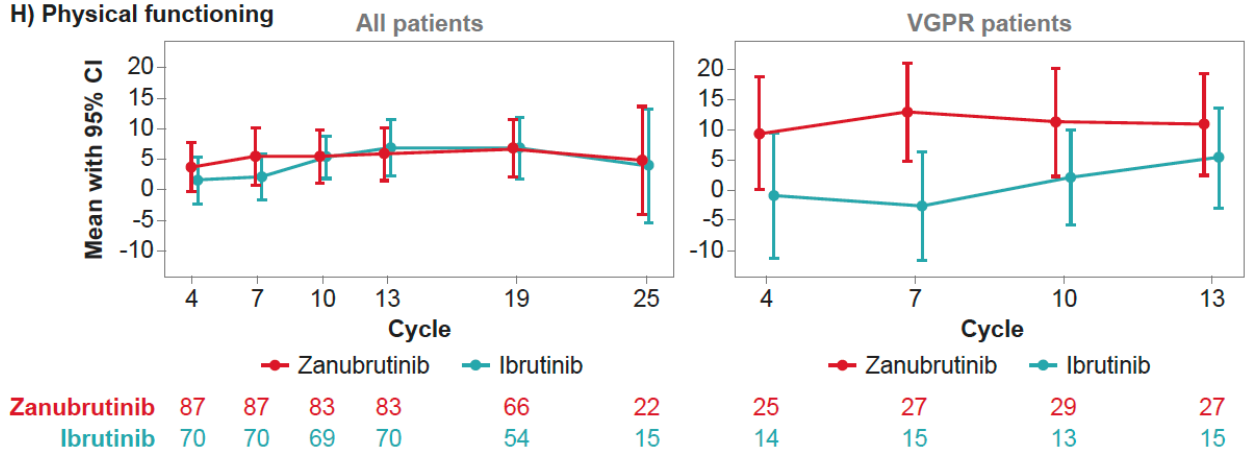
Zanubrutinib vs Ibrutinib in WM

Tam et al. – Final draft

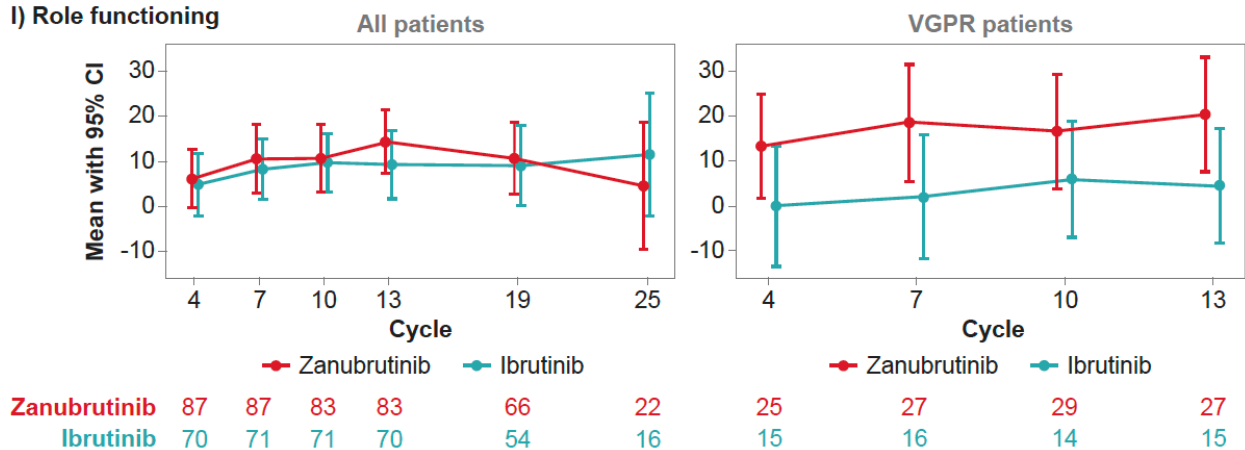
G) Insomnia



H) Physical functioning



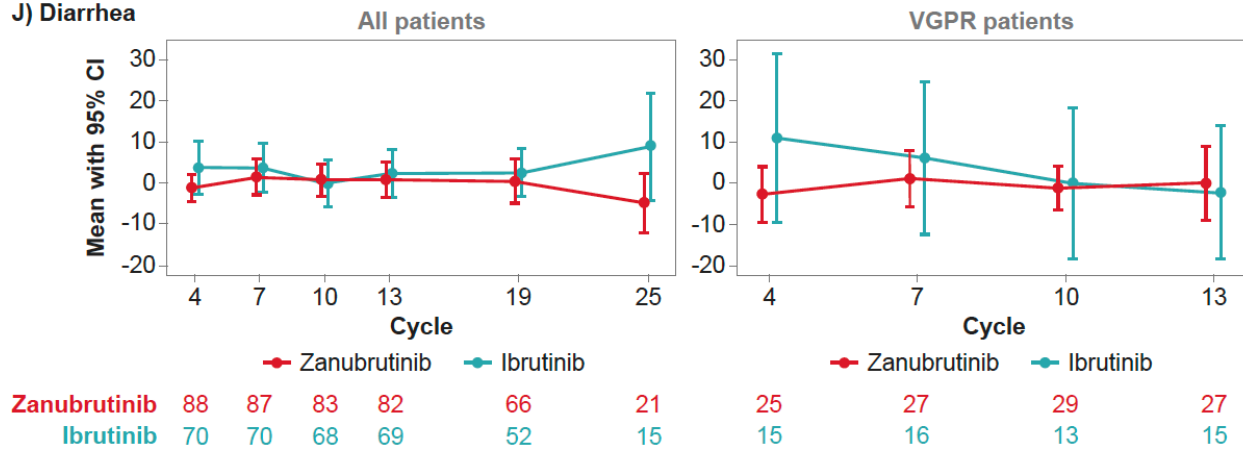
I) Role functioning



Zanubrutinib vs Ibrutinib in WM

Tam et al. – Final draft

J) Diarrhea



K) Dyspnea

