This medicinal product is subject to additional monitoring in Australia. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse events at www.tga.gov.au/reporting-problems.

AUSTRALIAN PRODUCT INFORMATION VENCLEXTA® (VENETOCLAX) FILM-COATED TABLETS

1. NAME OF THE MEDICINE

Venetoclax

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

VENCLEXTA 10 mg tablets: each film-coated tablet contains 10 mg venetoclax.

VENCLEXTA 50 mg tablets: each film-coated tablet contains 50 mg venetoclax.

VENCLEXTA 100 mg tablets: each film-coated tablet contains 100 mg venetoclax.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film-coated tablet.

VENCLEXTA 10 mg tablets: round, biconvex shaped, pale yellow debossed with "V" on one side and "10" on the other side.

VENCLEXTA 50 mg tablets: oblong, biconvex shaped, beige debossed with "V" on one side and "50" on the other side.

VENCLEXTA 100 mg tablets: oblong, biconvex shaped, pale yellow debossed with "V" on one side and "100" on the other side.

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4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Chronic Lymphocytic Leukaemia/Small Lymphocytic Lymphoma

VENCLEXTA in combination with obinutuzumab is indicated for the treatment of patients with chronic lymphocytic leukaemia (CLL) or small lymphocytic lymphoma (SLL) who are considered unfit or unsuitable for chemo-immunotherapy.

VENCLEXTA in combination with ibrutinib is indicated for the treatment of adult patients with previously untreated chronic lymphocytic leukaemia/small lymphocytic lymphoma (CLL/SLL).

VENCLEXTA in combination with rituximab is indicated for the treatment of adult patients with chronic lymphocytic leukaemia (CLL) who have received at least one prior therapy.

VENCLEXTA monotherapy is indicated for the treatment of:

- patients with relapsed or refractory CLL with 17p deletion, or
- patients with relapsed or refractory CLL for whom there are no other suitable treatment options.

Acute Myeloid Leukaemia

VENCLEXTA, in combination with azacitidine or low-dose cytarabine, is indicated for the treatment of adult patients with newly diagnosed acute myeloid leukaemia (AML) who are ineligible for intensive chemotherapy.

4.2 Dose and method of administration

Patients should be instructed to take VENCLEXTA tablets with a meal and water at approximately the same time each day. VENCLEXTA tablets should be swallowed whole and not chewed, crushed, or broken prior to swallowing.

Chronic Lymphocytic Leukaemia/Small Lymphocytic Lymphoma

5-week ramp-up schedule

The starting dose of VENCLEXTA is 20 mg once daily for 7 days. The VENCLEXTA dose must be administered according to a weekly ramp-up schedule to the daily dose of 400 mg over a period of 5 weeks as shown in Table 1. The 5-week ramp-up schedule is designed to gradually reduce tumour burden (debulking) and decrease the risk of TLS.

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Table 1. Dosing schedule including ramp-up phase for patients with CLL/SLL

Week	VENCLEXTA daily dose	
1	20 mg	
2	50 mg	
3	100 mg	
4	200 mg	
5 and beyond 400 mg		
VENCLEXTA Starting Pack contains doses for Week 1 to Week 4.		

First line CLL/SLL:

VENCLEXTA in combination with obinutuzumab

VENCLEXTA in combination with obinutuzumab should be given for a total of 12 cycles (28 days in each cycle) as shown in Table 2. Refer to the obinutuzumab Product Information for prophylaxis of tumour lysis syndrome and infusion related reactions.

Table 2. Dosing Schedule for VENCLEXTA in combination with obinutuzumab

Cycle, Day	Obinutuzumab	VENCLEXTA
Cycle 1, Day 1	Day 1: 100 mg Followed by 900 mg which may be administered on Day 1 or Day 2.	
Cycle 1, Day 8	1000 mg	
Cycle 1, Day 15	1000 mg	
Cycle 1, Day 22 – 28		20 mg daily ^a
Cycle 2, Day 1 – 7	Day 1 only: 1000 mg	50 mg daily ^a
Cycle 2, Day 8 – 14		100 mg daily ^a
Cycle 2, Day 15 – 21		200 mg daily ^a
Cycle 2, Day 22 – 28		400 mg daily ^a
Cycles 3 - 6, Day 1 - 28	Day 1 only: 1000 mg	400 mg daily
Cycles 7 - 12, Day 1 - 28		400 mg daily

^a5 week ramp-up (see Table 1)

VENCLEXTA in combination with ibrutinib

Start ibrutinib (420 mg once daily) as a single agent for 3 cycles (28 days in each cycle), followed by 12 cycles of VENCLEXTA in combination with ibrutinib. Beginning on Cycle 4 Day 1, administer VENCLEXTA according to the ramp-up schedule (see Table 1). After completing the ramp-up schedule, patients should continue VENCLEXTA 400 mg once daily in combination with ibrutinib 420 mg orally once daily to the end of Cycle 15.

Refer to the ibrutinib Product Information for additional information.

Previously treated CLL/SLL:

VENCLEXTA in combination with rituximab

Start rituximab administration after the patient has completed the ramp-up schedule with VENCLEXTA (see Table 1) and has received a daily 400 mg dose of VENCLEXTA for 7 days.

Patients should continue VENCLEXTA 400 mg once daily for up to 24 months from Cycle 1 Day 1 of rituximab in the absence of disease progression or unacceptable toxicity.

VENCLEXTA as monotherapy

The recommended dose of VENCLEXTA is 400 mg once daily after the patient has completed the ramp-up schedule.

Treatment should continue until disease progression or venetoclax is no longer tolerated by the patient.

Acute Myeloid Leukaemia

The dose of VENCLEXTA depends upon the combination agent. The VENCLEXTA dosing schedule (including ramp-up) is shown in Table 3.

Table 3. Dosing schedule including ramp-up phase for patients with AML

Day	VENCLEXTA daily dose		
1	100	mg	
2	200 mg		
3	400 mg		
4 and beyond	400 mg when dosing in combination with azacitidine	600 mg when dosing in combination with low-dose cytarabine	

Initiate azacitidine or low-dose cytarabine on Cycle 1 Day 1.

Azacitidine should be administered at 75 mg/m² either intravenously or subcutaneously on Days 1-7 of each 28-day cycle beginning on Cycle 1 Day 1.

Cytarabine should be administered at a dose of 20 mg/m² subcutaneously once daily on Days 1-10 of each 28-day cycle beginning on Cycle 1 Day 1.

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Interrupt VENCLEXTA dosing as needed for management of haematological toxicities and blood count recovery (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION; Dose modifications based on adverse reactions). Refer to the azacitidine or cytarabine Product Information for additional information.

VENCLEXTA, in combination with azacitidine or low-dose cytarabine, should be continued until disease progression or unacceptable toxicity is observed.

Risk assessment and prophylaxis for tumour lysis syndrome (TLS)

Patients treated with VENCLEXTA may develop TLS. Refer to the appropriate section below for specific details on management. Assess patient-specific factors for level of risk of TLS and provide prophylactic hydration and anti-hyperuricaemics to patients prior to first dose of VENCLEXTA to reduce risk of TLS.

Chronic Lymphocytic Leukaemia/Small Lymphocytic Lymphoma

VENCLEXTA can cause rapid tumour reduction and thus poses a risk for TLS in the initial 5-week ramp-up phase. Changes in electrolytes consistent with TLS that require prompt management can occur as early as 6 to 8 hours following the first dose of VENCLEXTA and at each dose increase.

The risk of TLS is a continuum based on multiple factors, including comorbidities, particularly reduced renal function (creatinine clearance [CrCl] <80mL/min), and tumour burden. Splenomegaly may contribute to the overall TLS risk. The risk may decrease as tumour burden decreases with VENCLEXTA treatment (see **Section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE**). Perform tumour burden assessments, including radiographic evaluation (e.g., CT scan). Assess blood chemistry (potassium, uric acid, phosphorus, calcium, and creatinine) in all patients and correct pre-existing abnormalities prior to initiation of treatment with VENCLEXTA.

Prophylaxis for tumour lysis syndrome

Chronic Lymphocytic Leukaemia/Small Lymphocytic Lymphoma

Table 4 below describes the recommended TLS prophylaxis and monitoring during VENCLEXTA treatment based on tumour burden determination from clinical trial data. In addition, consider all patient comorbidities for risk-appropriate prophylaxis and monitoring, either outpatient or in hospital.

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Table 4. Recommended TLS prophylaxis based on tumour burden in patients with CLL/SLL

		Prop	hylaxis	Blood chemistry monitoring ^{c,d}
Tur	mour burden	Hydration ^a	Anti- hyperuricaemics ^b	Setting and frequency of assessments
Low	All LN <5 cm AND ALC <25 x 10 ⁹ /L	Oral (1.5-2 L)	Allopurinol	 Outpatient For first dose of 20 mg and 50 mg: Pre-dose, 6 to 8 hours, 24 hours For subsequent ramp-up doses: Pre-dose
Medium	Any LN 5 cm to <10 cm OR ALC ≥25 x 10 ⁹ /L	Oral (1.5-2 L) and consider additional intravenous	Allopurinol	Outpatient • For first dose of 20 mg and 50 mg: Pre-dose, 6 to 8 hours, 24 hours • For subsequent ramp-up doses: Pre-dose • For first dose of 20 mg and 50 mg: Consider hospitalisation for patients with CrCl <80 mL/min; see below for monitoring in hospital
High	Any LN ≥10 cm OR ALC ≥25 x 10 ⁹ /L AND any LN ≥5 cm	Oral (1.5-2 L) and intravenous (150-200 mL/hr as tolerated)	Allopurinol; consider rasburicase if baseline uric acid is elevated	In hospital • For first dose of 20 mg and 50 mg: Pre-dose, 4, 8,12 and 24 hours Outpatient • For subsequent ramp-up doses: Pre-dose, 6 to 8 hours, 24 hours

ALC = absolute lymphocyte count; CrCl = creatinine clearance; LN = lymph node.

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^aInstruct patients to drink water daily starting 2 days before and throughout the dose ramp-up phase, specifically prior to and on the days of dosing at initiation and each subsequent dose increase. Administer intravenous hydration for any patient who cannot tolerate oral hydration.

bStart allopurinol or xanthine oxidase inhibitor 2 to 3 days prior to initiation of VENCLEXTA.

^cEvaluate blood chemistries (potassium, uric acid, phosphorus, calcium, and creatinine); review in real time. ^dFor patients at risk of TLS, monitor blood chemistries at 6 to 8 hours and at 24 hours at each subsequent ramp-up dose.

Acute Myeloid Leukaemia

The VENCLEXTA daily dose ramp-up is 3 days with azacitidine, or 4 days with low-dose cytarabine (see Table 3).

Follow these TLS prophylaxis measures:

- All patients should have white blood cell count <25 x 10⁹/L prior to initiation of VENCLEXTA and cytoreduction prior to treatment may be required.
- All patients should be adequately hydrated and receive anti-hyperuricaemic agents prior to initiation of the first dose of VENCLEXTA and during the ramp-up phase.
- Assess blood chemistry (potassium, uric acid, phosphorus, calcium, and creatinine) and correct pre-existing abnormalities prior to initiation of treatment with VENCLEXTA.
 - Monitor blood chemistries for TLS at pre-dose, 6 to 8 hours after each new dose during ramp-up and 24 hours after reaching the final dose.
- For patients with risk factors for TLS (e.g., circulating blasts, high burden of leukaemia involvement in bone marrow, elevated pretreatment lactate dehydrogenase [LDH] levels, or reduced renal function), additional measures should be considered, including increased laboratory monitoring and reduced VENCLEXTA starting dose.

Dose modifications based on adverse reactions

Chronic Lymphocytic Leukaemia/Small Lymphocytic Lymphoma

Dosing interruption and/or dose reduction for adverse reactions may be required. See Table 5 and Table 6 for recommended dose modifications for haematological and other adverse reactions related to VENCLEXTA.

For patients who have had a dosing interruption greater than 1 week during the first 5 weeks of ramp-up phase or greater than 2 weeks after completing the ramp-up phase, reassess the risk of TLS to determine if re-initiation with a reduced dose is necessary (e.g., at one of the prior levels of the ramp-up schedule) (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION; Chronic Lymphocytic Leukaemia/Small Lymphocytic Lymphoma 5-week ramp-up schedule, Risk assessment and prophylaxis for tumour lysis syndrome and Prophylaxis for tumour lysis syndrome).

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Table 5. Recommended VENCLEXTA dose modifications for adverse reactions^a in CLL/SLL

Adverse Reaction	Occurrence	Action			
	Tumour lysis s	Tumour lysis syndrome			
Blood chemistry changes or symptoms	Any	Withhold the next day's dose. If resolved within 24-48 hours of last dose, resume at the same dose.			
suggestive of TLS		For any blood chemistry changes requiring more than 48 hours to resolve, resume at a reduced dose (see Table 6) (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION; Risk assessment and prophylaxis for tumour lysis syndrome and Prophylaxis for tumour lysis syndrome).			
		For any events of clinical TLS ^b , resume at a reduced dose following resolution (see Table 6) (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION; Risk assessment and prophylaxis for tumour lysis syndrome and Prophylaxis for tumour lysis syndrome).			
	Non-haematological a	dverse reactions			
Grade 3 or 4 non- haematological toxicities	1 st occurrence	Interrupt VENCLEXTA. Once the toxicity has resolved to grade 1 or baseline level, VENCLEXTA therapy may be resumed at the same dose. No dose modification is required.			
	2 nd and subsequent occurrences	Interrupt VENCLEXTA. Follow dose reduction guidelines in Table 6 when resuming treatment with VENCLEXTA after resolution. A larger dose reduction may occur at the discretion of the physician.			
	Haematological adv	erse reactions			
Grade 3 neutropenia with infection or fever; or any grade 4 haematological toxicity (except lymphopaenia) (see Section 4.4	1 st occurrence	Interrupt VENCLEXTA. To reduce the infection risks associated with neutropenia, granulocyte-colony stimulating factor (G-CSF) may be administered with VENCLEXTA if clinically indicated. Once the toxicity has resolved to grade 1 or baseline level, VENCLEXTA therapy may be resumed at the same dose.			
SPECIAL WARNINGS AND PRECAUTIONS FOR USE; Neutropenia)	2 nd and subsequent occurrences	Interrupt VENCLEXTA. Consider using G-CSF as clinically indicated. Follow dose reduction guidelines in Table 6 when resuming treatment with VENCLEXTA after resolution. A larger dose reduction may occur at the discretion of the physician.			

Consider discontinuing VENCLEXTA for patients who require dose reductions to less than 100 mg for more than 2 weeks.

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^aAdverse reactions were graded using National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE) version 4.0.

^bClinical TLS was defined as laboratory TLS with clinical consequences such as acute renal failure, cardiac arrhythmias, or sudden death and/or seizures (see **Section 4.8 ADVERSE EFFECTS**).

Table 6. Dose reduction for adverse reactions during VENCLEXTA treatment of CLL/SLL

Dose at interruption, mg	Restart dose, mg ^a	
400	300	
300	200	
200	100	
100	50	
50	20	
20 10		
^a Continue the reduced dose for 1 week before increasing the dose.		

Acute Myeloid Leukaemia

Monitor blood counts frequently through resolution of cytopenias. Dose modification and interruptions for cytopenias are dependent on remission status. Dose modifications of VENCLEXTA for adverse reactions are provided in Table 7.

Table 7. Recommended VENCLEXTA dosage modifications for adverse reactions in AML

Adverse Reaction	Occurrence	Dosage modification		
	Haematologic	cal adverse reactions		
Grade 4 neutropenia with or without fever or infection; or grade 4	Occurrence prior to achieving remission ^a	In most instances, do not interrupt VENCLEXTA in combination with azacitidine or low-dose cytarabine prior to achieving remission.		
thrombocytopenia (see Section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE)	First occurrence after achieving remission and lasting at least 7 days	Delay subsequent treatment cycle of VENCLEXTA in combination with azacitidine or low-dose cytarabine and monitor blood counts. Administer granulocyte-colony stimulating factor (G-CSF) if clinically indicated for neutropenia. Upon resolution to grade 1 or 2, resume VENCLEXTA at the same dose in combination with azacitidine or low-dose cytarabine.		
	Subsequent occurrences in cycles after achieving remission and lasting 7 days or longer	Delay subsequent treatment cycle of VENCLEXTA in combination with azacitidine or low-dose cytarabine and monitor blood counts. Administer G-CSF if clinically indicated for neutropenia. Upon resolution to grade 1 or 2, resume VENCLEXTA at the same dose in combination with azacitidine or low-dose cytarabine, and reduce VENCLEXTA duration by 7 days during each of the subsequent cycles, such as 21 days instead of 28 days.		
	Non-haematolo	gical adverse reactions		
Grade 3 or 4 non- haematologic toxicities (see Section 4.8 ADVERSE EFFECTS)	Any occurrence	Interrupt VENCLEXTA if not resolved with supportive care. Upon resolution to grade 1 or baseline level, resume VENCLEXTA at the same dose.		
Recommend bone marrow evaluation.				

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Dose modifications for use with CYP3A inhibitors

Concomitant use of VENCLEXTA with strong or moderate CYP3A inhibitors increases venetoclax exposure (i.e., C_{max} and AUC) and may increase the risk for TLS at initiation and during dose ramp-up.

In patients with CLL/SLL, concomitant use of VENCLEXTA with strong CYP3A inhibitors at initiation and during ramp-up phase is contraindicated (see **Section 4.3 CONTRAINDICATIONS**).

In all patients, if a CYP3A inhibitor is to be used concomitantly, follow the recommendations for VENCLEXTA dose modifications summarised in Table 8. Monitor these patients more closely for signs of toxicities (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION: Dose modifications based on adverse reactions).

The VENCLEXTA dose that was used prior to initiating a CYP3A inhibitor may be resumed 2 to 3 days after discontinuation of the inhibitor (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION: Dose modifications based on adverse reactions and Section 4.5 INTERACTIONS WITH OTHER MEDICINES).

Table 8. VENCLEXTA dose modifications for use with CYP3A inhibitors

	Moderate C	YP3A inhibitor	Strong CYP3A	inhibitor
Indication	Initiation and ramp-up phase	Steady daily dose (after ramp-up phase)	Initiation and ramp-up phase	Steady daily dose (after ramp-up phase)
CLL		CLEXTA dose by at he original dose. ^a	Contraindicated	Reduce the VENCLEXTA dose to 100 mg or less. ^a
AML		CLEXTA dose by at the original dose.	Day 1 – 10 mg Day 2 – 20 mg Day 3 – 50 mg Day 4 – 100 mg or less	Reduce the VENCLEXTA dose to 100 mg or less.

a. Avoid concomitant use of VENCLEXTA with strong or moderate CYP3A inhibitors in CLL/SLL: consider alternative medications. If concomitant use of a CYP3A inhibitor can't be avoided, VENCLEXTA dosing should be reduced as described here.

Missed dose

If the patient misses a dose of VENCLEXTA within 8 hours of the time it is usually taken, the patient should be instructed to take the missed dose as soon as possible and resume the normal daily dosing schedule. If a patient misses a dose by more than 8 hours, the patient should not take the missed dose but resume the usual dosing schedule the next day.

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If the patient vomits following dosing, no additional dose should be taken that day. The next prescribed dose should be taken at the usual time.

4.3 Contraindications

Hypersensitivity to venetoclax, or to any of the excipients within the formulation.

In patients with CLL or SLL, concomitant use of VENCLEXTA with strong CYP3A inhibitors at initiation and during the ramp-up phase is contraindicated (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION and Section 4.5 INTERACTIONS WITH OTHER MEDICINES).

4.4 Special warnings and precautions for use

Tumour lysis syndrome

Tumour lysis syndrome (TLS), including life-threatening or fatal events and renal failure requiring dialysis, has occurred in patients treated with VENCLEXTA (see Section 4.8 ADVERSE EFFECTS).

Interrupt or discontinue VENCLEXTA, as recommended, if this adverse event occurs. When restarting VENCLEXTA, follow the dose modifications guidance (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION).

VENCLEXTA can cause rapid tumour reduction and thus poses a risk for TLS at initiation and during the ramp-up phase. Changes in electrolytes consistent with TLS that require prompt management can occur as early as 6-8 hours following the first dose of VENCLEXTA and at each dose increase.

The risk of TLS is a continuum based on multiple factors, including comorbidities (particularly reduced renal function), tumour burden (see Table 4), and splenomegaly in CLL (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**). All patients should be assessed for risk and should receive appropriate prophylaxis for TLS, including hydration and antihyperuricaemics. Blood chemistries should be monitored and abnormalities managed promptly. Employ more intensive measures (intravenous hydration, frequent monitoring, and hospitalisation) as overall risk increases (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**).

Concomitant use of VENCLEXTA with strong or moderate CYP3A inhibitors increases venetoclax exposure and may increase the risk of TLS at initiation and during ramp-up phase (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION and Section 4.5

INTERACTIONS WITH OTHER MEDICINES). Inhibitors of P-gp may also increase venetoclax exposure (see **Section 4.5 INTERACTIONS WITH OTHER MEDICINES**).

Neutropenia

In patients with CLL/SLL, grade 3 or 4 neutropenia developed in 63% to 64% of patients and grade 4 neutropenia developed in 31% to 33% of patients treated with VENCLEXTA in combination and monotherapy studies. Febrile neutropenia occurred in 4% to 6% of patients treated with VENCLEXTA in combination and monotherapy studies (see **Section 4.8 ADVERSE EFFECTS**).

In patients with AML, grade 3 or 4 neutropenia is common before starting treatment. The neutrophil counts can worsen with VENCLEXTA in combination with azacitidine or low-dose cytarabine. Neutropenia can recur with subsequent cycles of therapy.

Complete blood counts should be monitored throughout the treatment period. Dose interruptions or dose reductions are recommended for severe neutropenia. Supportive measures should be considered, including antimicrobials for any signs of infection, and use of growth factors (e.g., granulocyte-colony stimulating factor [G-CSF]) (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION, Section 4.3 CONTRAINDICATIONS, Section 4.5 INTERACTIONS WITH OTHER MEDICINES and Section 5.2 PHARMACOKINETIC PROPERTIES for further information on potential interactions with CYP3A inhibitors/inducers).

Serious infection

Serious infections, including events of sepsis and events with fatal outcome, have been reported in patients treated with VENCLEXTA (see **Section 4.8 ADVERSE EFFECTS**). Monitor patients for fever and any symptoms of infection and treat promptly. Interrupt dosing as appropriate.

Immunisation

The safety and efficacy of immunisation with live attenuated vaccines during or following VENCLEXTA therapy have not been studied. Do not administer live attenuated vaccines prior to, during, or after treatment with VENCLEXTA until B-cell recovery occurs.

Hepatic impairment

No dose adjustment is recommended in patients with mild or moderate hepatic impairment based on results of the population pharmacokinetic analysis.

A 50% dose reduction throughout treatment is recommended for patients with severe hepatic impairment; monitor these patients more closely for signs of toxicity (see **Section 5.2 PHARMACOKINETIC PROPERTIES**).

Renal impairment

No specific clinical trials have been conducted in subjects with renal impairment. After a single oral administration of 200 mg radiolabeled [¹⁴C]-venetoclax to healthy subjects, less than 0.1% of radioactive VENCLEXTA dose was detected in urine. No dose adjustment is needed for patients with mild, moderate or severe renal impairment (CrCl ≥15 mL/min) based on the results of the population pharmacokinetic analysis (see **Section 5.2 PHARMACOKINETIC PROPERTIES**).

Patients with reduced renal function (CrCl <80 mL/min) may require more intensive prophylaxis and monitoring to reduce the risk of TLS when initiating treatment with VENCLEXTA (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**). A recommended dose has not been determined for patients with CrCl <15 mL/min or patients on dialysis.

Paediatric use

The safety and efficacy of VENCLEXTA in children and adolescents younger than 18 years have not been established.

Use in the elderly

No specific dose adjustment is required for elderly patients (aged ≥65 years).

Of the 194 patients with previously treated CLL who received venetoclax in combination with rituximab 50% were 65 years or older.

Of the 164 previously treated patients with CLL or SLL evaluated for efficacy by an Independent Review Committee in Studies M13-982 and M12-175, 91 (55.5%) patients were ≥65 years of age and 28 (17.1%) patients were ≥75 years of age.

Of the 240 patients with CLL evaluated for safety from 3 open-label clinical trials, 138 (57.5%) patients were ≥65 years of age and 40 (16.7%) patients were ≥75 years of age.

There were no overall differences in safety or efficacy observed between older and younger patients in combination and monotherapy studies.

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Increased mortality in patients with multiple myeloma (not an approved indication) when VENCLEXTA is added to bortezomib and dexamethasone

In a randomised trial (BELLINI; NCT02755597) in patients with relapsed or refractory multiple myeloma, the addition of VENCLEXTA to bortezomib plus dexamethasone, a use for which VENCLEXTA is not indicated, resulted in increased mortality. Treatment of patients with multiple myeloma with VENCLEXTA in combination with bortezomib plus dexamethasone is not recommended outside of controlled clinical trials.

4.5 Interactions with other medicines and other forms of interactions

Potential effects of other medicines on VENCLEXTA

Venetoclax is predominantly metabolised by CYP3A4.

CYP3A inhibitors

Co-administration of 400 mg once daily ketoconazole, a strong CYP3A, P-gp and BCRP inhibitor, for 7 days in 11 previously treated patients with NHL increased venetoclax C_{max} by 130% and AUC $_{\infty}$ by 540%.

Co-administration of 50 mg once daily ritonavir, a strong CYP3A, P-gp and OATP1B1/B3 inhibitor, for 14 days in 6 healthy subjects increased venetoclax C_{max} by 140% and AUC by 690%.

Findings from a drug interaction sub-study (M14-358) involving 12 newly diagnosed patients with AML determined that, when compared to steady state conditions amongst the same patients receiving venetoclax 400 mg a day, the co-administration of 300 mg posaconazole (a strong CYP3A and P-gp inhibitor) with venetoclax 50 mg and 100 mg resulted in 61% and 86% higher venetoclax C_{max} levels and 90% and 144% higher AUC₂₄ respectively.

For patients requiring concomitant use of VENCLEXTA with strong CYP3A inhibitors (e.g., itraconazole, ketoconazole, posaconazole, voriconazole, clarithromycin, conivaptan, indinavir, lopinavir, telaprevir, and ritonavir) or moderate CYP3A inhibitors (e.g., ciprofloxacin, diltiazem, erythromycin, dronedarone, fluconazole, verapamil) administer VENCLEXTA dose according to Table 8. Monitor patients more closely for signs of VENCLEXTA toxicities (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**).

The VENCLEXTA dose that was used prior to initiating the CYP3A inhibitor may be resumed 2 to 3 days after discontinuation of the inhibitor (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**).

Avoid grapefruit products, Seville oranges, and starfruit during treatment with VENCLEXTA, as they contain inhibitors of CYP3A.

OATP1B1/1B3 and P-gp inhibitors

Co-administration of a 600 mg single dose of rifampicin, an OATP1B1/1B3 and P-gp inhibitor, in 11 healthy subjects increased venetoclax C_{max} by 106% and AUC∞ by 78%.

Concomitant use of venetoclax with P-gp inhibitors (e.g., amiodarone, captopril, carvedilol, ciclosporin, felodipine, quercetin, quinidine, ranolazine, ticagrelor) at initiation and during the ramp-up phase should be avoided; if a P-gp inhibitor must be used, patients should be monitored closely for signs of toxicities.

Azithromycin

Co-administration of 500 mg of azithromycin on the first day followed by 250 mg of azithromycin for 4 days in 12 healthy subjects decreased venetoclax C_{max} by 25% and AUC_{∞} by 35%. No dose adjustment is needed when venetoclax is co-administered with azithromycin.

CYP3A inducers

Co-administration of 600 mg once daily rifampicin, a strong CYP3A inducer, for 13 days in 10 healthy subjects decreased venetoclax C_{max} by 42% and AUC_{∞} by 71%. Concomitant use of VENCLEXTA with strong CYP3A inducers (e.g., carbamazepine, phenytoin, rifampicin, St. John's wort (*Hypericum perforatum*)) or moderate CYP3A inducers (e.g., bosentan, efavirenz, etravirine, modafinil, nafcillin) should be avoided. Alternative treatments with less CYP3A induction should be considered (see **Section 5.2 PHARMACOKINETIC PROPERTIES**).

Gastric acid-reducing agents

Based on population pharmacokinetic analysis, gastric acid reducing agents (e.g., proton pump inhibitors, H2-receptor antagonists, antacids) do not affect venetoclax bioavailability.

Potential effects of VENCLEXTA on other medicines

Warfarin

In a drug-drug interaction study in three healthy volunteers, administration of a single 400 mg dose of venetoclax with 5 mg warfarin resulted in an 18% to 28% increase in C_{max} and AUC_{∞} of R-warfarin and S-warfarin. Because venetoclax was not dosed to steady state, it is recommended that the international normalised ratio (INR) be monitored closely in patients receiving warfarin.

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P-gp substrates

Administration of a single 100 mg dose of venetoclax with 0.5 mg digoxin, a P-gp substrate, in 10 healthy subjects resulted in a 35% increase in digoxin C_{max} and a 9% increase in digoxin AUC $_{\infty}$. Therefore, co- administration of narrow therapeutic index P-gp substrates (e.g., digoxin, everolimus, and sirolimus) with VENCLEXTA should be avoided. If a narrow therapeutic index P-gp substrate must be used, it should be taken at least 6 hours before VENCLEXTA.

4.6 Fertility, pregnancy and lactation

Effects on fertility

No human data on the effect of venetoclax on fertility are available. Based on findings in animals, male fertility may be compromised by treatment with VENCLEXTA.

Fertility and early embryonic development studies with venetoclax were conducted in male and female mice. These studies evaluated mating, fertilisation, and embryonic development through implantation. There were no effects of venetoclax on oestrus cycles, mating, fertility, corpora lutea, uterine implants or live embryos per litter at dosages up to 600 mg/kg/day (in male and female mice, approximately 1.8 times the human AUC exposure at the maximum recommended clinical dose of 600 mg/day). However, a risk to human male fertility exists based on testicular toxicity (germ cell loss) observed in dogs at all dose levels examined (exposures of 0.3 to 11 times the human AUC exposure at the 600 mg/day clinical dose). Reversibility of this finding has not been demonstrated.

Use in pregnancy

Pregnancy Category C

There are no adequate and well-controlled studies of venetoclax in pregnant women. Based on embryo-fetal toxicity observed in mice, VENCLEXTA may have effects on the fetus when administered to pregnant women.

VENCLEXTA should not be used during pregnancy. Women of child-bearing potential must use highly effective contraceptive measures during treatment with VENCLEXTA and for at least 30 days after the last dose of treatment. If venetoclax is used during pregnancy or if the patient becomes pregnant while taking VENCLEXTA, the patient should be apprised of the potential hazard to a fetus. The time period following treatment with VENCLEXTA where it is safe to become pregnant is unknown.

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Women of child-bearing potential should undergo pregnancy testing before initiation of VENCLEXTA.

In embryo-fetal development studies, venetoclax was administered to pregnant mice and rabbits. These studies evaluated potential effects after implantation and subsequent embryo-fetal development during the respective periods of major organogenesis in mice and rabbits. In mice, venetoclax was associated with increased post-implantation loss and decreased fetal body weight at 150 mg/kg/day (maternal exposures approximately 0.7 times the human AUC exposure at the maximum recommended clinical dose of 600 mg/day). In rabbits, venetoclax at 300 mg/kg/day produced maternal toxicity, but no fetal toxicity (maternal exposures approximately 0.09 times the human AUC exposure at the 600 mg/day clinical dose). No teratogenicity was observed in either the mouse or the rabbit. Additionally, administration of M27, the major human metabolite of venetoclax, at oral doses up to 250 mg/kg/day did not produce embryo-fetal toxicity or teratogenicity in a study in mice. Maternal exposure to M27 at this dose was approximately 9 times the human M27 AUC exposure at a dose of 400 mg/day of venetoclax. Limited placental transfer of venetoclax was shown in mice, rats and rabbits. Significant placental transfer of the M27 metabolite was evident in mice.

Use in lactation

It is not known whether venetoclax or its metabolites are excreted in human breast milk. Venetoclax was shown to be readily excreted in milk in rats, along with trace amounts of metabolites. A risk to newborns/infants cannot be excluded. Because many drugs are excreted in human breast milk and because the potential for serious adverse reactions in breastfed infants from VENCLEXTA is unknown, nursing women should be advised to discontinue breastfeeding during treatment with VENCLEXTA.

4.7 Effects on ability to drive and use machines

No studies on the effects of VENCLEXTA on the ability to drive and use machines have been performed. The pharmacological activity and adverse events reported to date do not indicate that such an effect is likely.

4.8 Adverse effects (undesirable effects)

Reporting suspected adverse effects

Reporting suspected adverse reactions after registration of the medicinal product is important. It allows continued monitoring of the benefit-risk balance of the medicinal product. Healthcare

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professionals are asked to report any suspected adverse reactions at https://www.tga.gov.au/reporting-problems.

Tabulated list of adverse events and reactions

Adverse events and reactions are listed below by MedDRA body system organ class, rate, and frequency. Frequencies are defined as very common (≥1/10), common (≥1/100 to <1/10), uncommon (≥1/1,000 to <1/100), rare (≥1/10,000 to <1/1,000), very rare (<1/10,000), not known (cannot be estimated from available data). Within each frequency grouping, undesirable effects are presented in order of decreasing rate.

Clinical trial experience in CLL/SLL

Because clinical trials are conducted under widely variable conditions, adverse event rates observed in clinical trials of a drug cannot be directly compared with rates of clinical trials of another drug and may not reflect the rates observed in practice.

VENCLEXTA in combination with obinutuzumab

The safety of venetoclax in combination with obinutuzumab versus obinutuzumab and chlorambucil was evaluated in an open-label randomised (1:1) phase 3 study (CLL14) in patients with previously untreated CLL and coexisting medical conditions. Details of the study treatment are described in **Section 5.1 PHARMACODYNAMIC PROPERTIES: Clinical trials: VENCLEXTA in combination with obinutuzumab**.

At the time of data analysis, the median duration of exposure to venetoclax was 10.5 months (range: 1 to 13.5 months). The median number of cycles was 6 for obinutuzumab and 12 for chlorambucil.

In the venetoclax + obinutuzumab arm, adverse events led to discontinuation in 16% of patients, dose reductions in 21% of patients and dose interruptions in 74% of patients. The most common adverse reaction that led to dose interruption of venetoclax was neutropenia.

In the venetoclax + obinutuzumab arm, fatal adverse reactions that occurred in the absence of disease progression and with onset within 28 days of the last study treatment were reported in 2% (4/212) of patients, most often from infection. Serious adverse reactions were reported in 49% of patients in the venetoclax + obinutuzumab arm, most often due to febrile neutropenia and pneumonia (5% each).

Table 9 provides the adverse events reported in CLL14.

Table 9. Common (≥10%) adverse events in patients treated with VENCLEXTA + obinutuzumab compared with obinutuzumab + chlorambucil

Adverse Events System Organ Class	obinutu	VENCLEXTA + obinutuzumab (N = 212)		Obinutuzumab + chlorambucil (N = 214)	
Preferred Term	All grades %	Grade ≥3 %	All grades %	Grade ≥3 %	
Blood and lymphatic system disorders	•				
Neutropenia	58	53	57	48	
Thrombocytopenia	24	14	23	15	
Anaemia	17	8	19	7	
Gastrointestinal disorders					
Diarrhoea	28	4	15	<1	
Nausea	19	0	22	<1	
Constipation	13	0	9	0	
Vomiting	10	<1	8	<1	
General disorders and administration site	conditions				
Pyrexia	23	1	15	1	
Fatigue	15	<1	14	<1	
Injury, poisoning and procedural complications					
Infusion related reaction	45	9	51	10	
Nervous system disorders					
Headache	11	<1	10	0	
Respiratory, thoracic and mediastinal diso	rders				
Cough	16	0	12	0	

Other adverse reactions reported in the venetoclax + obinutuzumab arm are presented below:

Blood and lymphatic system disorders: febrile neutropenia (6%), lymphopaenia (1%)

Infection and infestation disorder: pneumonia (8%), upper respiratory tract infection (8%), urinary tract infection (5%), sepsis^a (4%)

Investigations: blood creatinine increased (3%)

Metabolism and nutrition disorder: hyperuricaemia (4%), hyperkalaemia (2%), hyperphosphataemia (2%), hypocalcaemia (1%), tumour lysis syndrome (1%)

^aIncludes the following terms: sepsis, septic shock, and urosepsis.

VENCLEXTA in combination with ibrutinib

GLOW (CLL3011)

GLOW was an open-label randomised (1:1) phase 3 study in patients with previously untreated CLL/SLL who were 65 years or older, or patients < 65 years of age with a Cumulative

Illness Rating Scale (CIRS) score > 6 or CrCL < 70 mL/min. Patients received 3 cycles of single-agent ibrutinib (420 mg/day orally). Starting at Cycle 4, venetoclax was added (starting with the 5-week dose ramp-up to the recommended daily dose of 400 mg) to the ibrutinib regimen continuously for 12 additional cycles.

At the time of primary data analysis (26 February 2021), the median duration of exposure was 13.8 months in the VENCLEXTA + ibrutinib arm and 5.13 months in the chlorambucil + obinutuzumab arm.

In the VENCLEXTA + ibrutinib arm, adverse events led to discontinuation of VENCLEXTA in 11% of patients, dose reductions in 17% of patients, and dose interruptions in 42% of patients. The most common adverse reaction that led to dose interruption of VENCLEXTA was neutropenia.

Table 10 provides the adverse events reported in GLOW.

Table 10. Common (≥10%) adverse events in patients treated with VENCLEXTA + ibrutinib compared with obinutuzumab + chlorambucil in GLOW

	VENCLEXTA + (N = 106		Obinutuzumab (N =		
System Organ Class	All grades	Grade ≥3	All grades	Grade ≥3	
Preferred Term	n (%)	n (%)	n (%)	n (%)	
Gastrointestinal disorders					
Diarrhoea	54 (51)	11 (10)	13 (12)	1 (1)	
Nausea	28 (26)	0	27 (26)	0	
Vomiting	15 (14)	1 (0.9)	14 (13)	0	
Constipation	11 (10)	0	7 (7)	0	
Infections and infestations					
Urinary tract infection	17 (16)	2 (2)	5 (5)	2 (2)	
Upper respiratory tract	13 (12)	0	14 (13)	0	
infection					
Pneumonia	11 (10)	7 (7)	10 (10)	6 (6)	
Blood and lymphatic system	n disorders				
Neutropenia	36 (34)	30 (28)	56 (53)	47 (45)	
Anaemia	19 (18)	3 (3)	19 (18)	2 (2)	
Thrombocytopenia	12 (11)	6 (6)	28 (27)	21 (20)	
Skin and subcutaneous tiss	ue disorders				
Rash	18 (17)	4 (4)	7 (7)	0	
Metabolism and nutrition di	sorders				
Decreased appetite	14 (13)	1 (0.9)	6 (6)	1 (1)	
Hyperphosphataemia	11 (10)	1 (0.9)	0	0	
General disorders and admi	nistration site cond	itions			
Oedema peripheral	16 (15)	0	3 (3)	0	
Fatigue	16 (15)	1 (0.9)	10 (10)	0	
Respiratory, thoracic and mediastinal disorders					
Epistaxis	12 (11)	0	3 (3)	0	
Investigations					
Neutrophil count decreased	11 (10)	9 (8)	9 (9)	7 (7)	
Musculoskeletal and connective tissue disorders					
Arthralgia	12 (11)	1 (0.9)	7 (7)	0	

	VENCLEXTA + ibrutinib (N = 106)		Obinutuzumab (N =	+ chlorambucil 105)
System Organ Class Preferred Term	All grades n (%)	Grade ≥3 n (%)	All grades n (%)	Grade ≥3 n (%)
Vascular disorders				
Hypertension	14 (13)	8 (8)	5 (5)	2 (2)
Cardiac disorders				
Atrial fibrillation	15 (14)	7 (7)	2 (2)	0

Other adverse reactions reported in the VENCLEXTA + ibrutinib arm are presented below:

Blood & lymphatic system disorders: febrile neutropenia (2%), lymphocyte count decreased (<1%) **Infections & infestations:** sepsis^a (<1%)

Investigations: blood creatinine increased (5%)

Metabolism and nutrition disorders: hyperkalemia^b (9%), hyperuricemia^c (7%), hypocalcemia^d (4%)

CAPTIVATE (PCYC-1142-CA)

The safety of VENCLEXTA in combination with ibrutinib was evaluated in a multi-center, 2-cohort study assessing both minimal residual disease (MRD)-guided discontinuation and fixed duration (FD) therapy in adult patients who were 70 years or younger with previously untreated CLL or SLL. Patients in both cohorts received 3 cycles of single-agent ibrutinib (420 mg/day orally). Starting at Cycle 4, venetoclax was added (starting with the 5-week dose ramp-up to the recommended daily dose of 400 mg) to the ibrutinib regimen continuously for at least 12 additional cycles. Safety was assessed in an all-treated pool consisting of the MRD-guided cohort (first 16 cycles) plus the FD cohort.

At the time of primary data analysis (12 November 2020), the median duration of exposure was 11.5 months for venetoclax and 14.1 months for ibrutinib.

Adverse events led to discontinuation of VENCLEXTA in 3% of patients and dose reductions in 12% of patients.

Table 11 provides the adverse events reported in CAPTIVATE.

^a Includes septic shock.

^b Includes hyperkalemia and blood potassium increased.

^c Includes hyperuricemia and blood uric acid increased.

^d Includes hypocalcemia and blood calcium decreased.

Table 11. Common (≥10%) adverse events in patients treated with VENCLEXTA + ibrutinib in CAPTIVATE

System Organ Class Preferred Term n(%) n (%)		FD + MRD (First 16 Cycles) Coho (N = 323)		
Blood and lymphatic disorders Neutropenia 136 (42) 110 (34) Increased tendency to bruise 70 (22) 0 0 Thrombocytopenia 51 (16) 10 (3) Cardiac disorders Palpitations 36 (11) 0 Gastrointestinal disorders Diarrhoea 215 (67) 13 (4.0) Nausea 142 (44) 2 (0.6) Vomiting 70 (22) 4(1) Dyspepsia 57 (18) 0 0 Constipation 52 (16) 0 Stomatitis 45 (14) 2 (0.6) Gastrooesophageal reflux disease 41 (13) 0 Abdominal pain 40 (12) 1 (0.3) Mouth ulceration 38 (12) 0 General disorders and administration site conditions Fatigue 85 (26) 5 (2) Pyrexia 42 (13) 0 Infections and infestations Upper respiratory tract infection 85 (26) 1 (0) Injury, poisoning and procedural complications Contusion 47 (15) 4 (1) Myalgia 47 (15) 0 Back pain 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders 46 (14) 0 Coppharyngeal pain 45 (14) 0 Coppharyngeal pain 55 (15) 5 (15) Constitution Constitution		_	Grade ≥3	
Neutropenia		n (%)	n (%)	
Increased tendency to bruise			T	
Thrombocytopenia		` '	'	
Cardiac disorders		· · · · · · · · · · · · · · · · · · ·		
Palpitations 36 (11) 0		51 (16)	10 (3)	
Diarrhoea 215 (67) 13 (4.0)				
Diarrhoea		36 (11)	0	
Nausea			_	
Vomiting 70 (22) 4(1) Dyspepsia 57 (18) 0 Constipation 52 (16) 0 Stomatitis 45 (14) 2 (0.6) Gastrooesophageal reflux disease 41 (13) 0 Abdominal pain 40 (12) 1 (0.3) Mouth ulceration 38 (12) 0 General disorders and administration site conditions Fatigue 85 (26) 5 (2) Pyrexia 42 (13) 0 Infections and infestations Upper respiratory tract infection 85 (26) 1 (0) Injury, poisoning and procedural complications Contusion 55 (17) 0 Musculoskeletal and connective tissue disorders Arthralgia 109 (34) 6 (2) Muscle spasms 79 (24) 0 Back pain 47 (15) 4 (1) Myalgia 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders Headache <td>Diarrhoea</td> <td>` '</td> <td>` '</td>	Diarrhoea	` '	` '	
Dyspepsia		` '		
Constipation 52 (16) 0 Stomatitis 45 (14) 2 (0.6) Gastrooesophageal reflux disease 41 (13) 0 Abdominal pain 40 (12) 1 (0.3) Mouth ulceration 38 (12) 0 General disorders and administration site conditions Fatigue 85 (26) 5 (2) Pyrexia 42 (13) 0 Infections and infestations Upper respiratory tract infection 85 (26) 1 (0) Injury, poisoning and procedural complications Contusion 55 (17) 0 Musculoskeletal and connective tissue disorders Arthralgia 109 (34) 6 (2) Muscle spasms 79 (24) 0 Back pain 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders Headache 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders 55 (17) <td< td=""><td>Vomiting</td><td>70 (22)</td><td>4(1)</td></td<>	Vomiting	70 (22)	4(1)	
Stomatitis	Dyspepsia	57 (18)		
Gastrooesophageal reflux disease 41 (13) 0 Abdominal pain 40 (12) 1 (0.3) Mouth ulceration 38 (12) 0 General disorders and administration site conditions Fatigue 85 (26) 5 (2) Pyrexia 42 (13) 0 Infections and infestations Upper respiratory tract infection 85 (26) 1 (0) Injury, poisoning and procedural complications Contusion 55 (17) 0 Musculoskeletal and connective tissue disorders Arthralgia 109 (34) 6 (2) Muscle spasms 79 (24) 0 Back pain 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders Headache 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders Cough 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0	Constipation	52 (16)	0	
Abdominal pain		45 (14)	2 (0.6)	
Mouth ulceration 38 (12) 0 General disorders and administration site conditions Fatigue 85 (26) 5 (2) Pyrexia 42 (13) 0 Infections and infestations Upper respiratory tract infection 85 (26) 1 (0) Injury, poisoning and procedural complications Contusion 55 (17) 0 Musculoskeletal and connective tissue disorders Arthralgia 109 (34) 6 (2) Muscle spasms 79 (24) 0 Back pain 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders Headache 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders <t< td=""><td>Gastrooesophageal reflux disease</td><td>41 (13)</td><td>0</td></t<>	Gastrooesophageal reflux disease	41 (13)	0	
General disorders and administration site conditions Fatigue 85 (26) 5 (2) Pyrexia 42 (13) 0 Infections and infestations Upper respiratory tract infection 85 (26) 1 (0) Injury, poisoning and procedural complications Contusion 55 (17) 0 Musculoskeletal and connective tissue disorders Arthralgia 109 (34) 6 (2) Muscle spasms 79 (24) 0 Back pain 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders Headache 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15)	Abdominal pain	40 (12)	1 (0.3)	
Fatigue 85 (26) 5 (2) Pyrexia 42 (13) 0 Infections and infestations Upper respiratory tract infection 85 (26) 1 (0) Injury, poisoning and procedural complications Contusion 55 (17) 0 Musculoskeletal and connective tissue disorders Arthralgia 109 (34) 6 (2) Muscle spasms 79 (24) 0 Back pain 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders Headache 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	Mouth ulceration	38 (12)	0	
Pyrexia	General disorders and administration site of	conditions		
Upper respiratory tract infection	Fatigue	85 (26)	5 (2)	
Upper respiratory tract infection 85 (26) 1 (0) Injury, poisoning and procedural complications 55 (17) 0 Contusion 55 (17) 0 Musculoskeletal and connective tissue disorders 40 (2) Arthralgia 109 (34) 6 (2) Muscle spasms 79 (24) 0 Back pain 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders 52 (16) 0 Headache 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders 55 (17) 0 Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	Pyrexia	42 (13)	0	
Injury, poisoning and procedural complications Contusion	Infections and infestations			
Contusion 55 (17) 0 Musculoskeletal and connective tissue disorders 47 (19) 6 (2) Arthralgia 109 (34) 6 (2) Muscle spasms 79 (24) 0 Back pain 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders 55 (17) 0 Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders 50 (15) 4 (1)	Upper respiratory tract infection	85 (26)	1 (0)	
Musculoskeletal and connective tissue disorders Arthralgia 109 (34) 6 (2) Muscle spasms 79 (24) 0 Back pain 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders Headache 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders 50 (15) 4 (1)	Injury, poisoning and procedural complication	tions		
Arthralgia 109 (34) 6 (2) Muscle spasms 79 (24) 0 Back pain 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders Headache 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)			0	
Muscle spasms 79 (24) 0 Back pain 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders Headache 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	Musculoskeletal and connective tissue dis-	orders		
Back pain 47 (15) 4 (1) Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders Headache 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	Arthralgia	109 (34)	6 (2)	
Myalgia 47 (15) 0 Pain in extremity 43 (13) 1 (0.3) Nervous system disorders Headache 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	Muscle spasms	79 (24)	0	
Pain in extremity 43 (13) 1 (0.3) Nervous system disorders 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	Back pain	47 (15)	4 (1)	
Nervous system disorders 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders 50 (15) 4 (1)	Myalgia	47 (15)	0	
Headache 86 (27) 2 (0.6) Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	Pain in extremity	43 (13)	1 (0.3)	
Dizziness 52 (16) 0 Respiratory, thoracic and mediastinal disorders 55 (17) 0 Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	Nervous system disorders	· , ,	, ,	
Respiratory, thoracic and mediastinal disorders Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	Headache	86 (27)	2 (0.6)	
Cough 55 (17) 0 Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	Dizziness	52 (16)	0	
Oropharyngeal pain 45 (14) 0 Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	Respiratory, thoracic and mediastinal diso	rders		
Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	Cough	55 (17)	0	
Epistaxis 42 (13) 0 Skin and subcutaneous tissue disorders Rash maculo-papular 50 (15) 4 (1)	•	` '	0	
Skin and subcutaneous tissue disordersRash maculo-papular50 (15)4 (1)	Epistaxis	42 (13)	0	
	Skin and subcutaneous tissue disorders	· ,		
	Rash maculo-papular	50 (15)	4 (1)	
1 0 (11)	Petechiae	37 (11)	Ò	
Dry skin 35 (11) 0	Dry skin	` '	0	
Pruritus 31 (10) 1 (0.3)	•	, ,	1 (0.3)	
Onychoclasis 31 (10) 0		, ,	` '	
Vascular disorders				
Hypertension 51 (16) 22 (7)		51 (16)	22 (7)	

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Other adverse reactions reported in the CAPTIVATE study are presented below:

Blood & lymphatic system disorders: anaemia (7%), febrile neutropenia (1%), lymphopenia^a (<1%)

Infections & infestations: urinary tract infection (7%), pneumonia^b (4%), sepsis^c (1%)

Investigations: blood creatinine increased (6%)

Metabolism and nutrition disorders: hyperphosphatemia^d (7%), hyperuricemia^e (7%), hyperkalemia^f (6%), hypocalcemia^g (3%), tumour lysis syndrome (<1%; 1 patient in MRD [first 16 cycles] cohort)

VENCLEXTA in combination with rituximab

The safety of venetoclax in combination with rituximab versus bendamustine in combination with rituximab, was evaluated in an open-label randomised phase 3 study (MURANO), in patients with CLL who have received at least one prior therapy. Details of the study treatment are described in **Section 5.1 PHARMACODYNAMIC PROPERTIES: Clinical trials: VENCLEXTA in combination with rituximab**. At the time of data analysis, the median duration of exposure was 22 months in the venetoclax + rituximab arm compared to 6 months in the bendamustine plus rituximab arm.

Discontinuations due to adverse events occurred in 16% of patients treated with venetoclax + rituximab. Dose reductions due to adverse events occurred in 15% of patients treated with venetoclax + rituximab. Dose interruptions due to adverse events occurred in 71% of patients treated with venetoclax + rituximab. The most common adverse reaction that led to dose interruption of venetoclax was neutropenia.

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^a Includes lymphopenia and lymphocyte count decreased.

^b Includes pneumonia, pleurisy viral, pneumonia bacterial.

^c Includes bacteraemia, disseminated varicella zoster virus infection, Escherichia bacteremia, staphylococcal bacteraemia.

^d Includes hyperphosphatemia and blood phosphorus increased.

^e Includes hyperuricemia and blood uric acid increased.

^f Includes hyperkalemia and blood potassium increased.

^g Includes hypocalcemia and blood calcium decreased.

Table 12. Adverse events reported in ≥5% of patients treated with VENCLEXTA + rituximab in MURANO which occurred at ≥2% higher incidence compared with bendamustine + rituximab

Adverse Events System Organ Class VENCLEXTA + ritu followed by single VENCLEXTA (N=			rituxi (N=1	ndamustine + rituximab (N=188)		
Preferred Term	Any grade n (%)	Grade ≥3 n (%)	Any grade n (%)	Grade ≥3 n (%)		
Blood and lymphatic system disorder		11 (/0)	11 (70)	11 (/0)		
Neutropenia	118 (61)	112 (58)	83 (44)	73 (39)		
Gastrointestinal disorders	1.0 (0.)	1 1 (00)	33 (1.1)	()		
Diarrhoea	77 (40)	5 (3)	31 (16)	2 (1)		
Abdominal pain	13 (7)	2 (1)	6 (3)	Ò		
Infections and infestations						
Upper respiratory tract infection	43 (22)	3 (2)	29 (15)	2 (1)		
Nasopharyngitis	22 (11)	0	10 (5)	0		
Bronchitis	20 (10)	1 (1)	13 (7)	2 (1)		
Sinusitis	18 (9)	3 (2)	5 (3)	1 (1)		
Pharyngitis	13 (7)	0	3 (2)	1 (1)		
Urinary tract infection	12 (6)	1 (1)	7 (4)	0		
Lower respiratory tract infection	11 (6)	0	5 (3)	1 (1)		
Respiratory tract infection	11 (6)	1 (1)	6 (3)	0		
Conjunctivitis	10 (5)	0	5 (3)	0		
Influenza	10 (5)	2 (1)	4 (2)	2 (1)		
Metabolism and nutrition disorders						
Hyperkalaemia	12 (6)	2 (1)	0	0		
Hypokalaemia	12 (6)	1 (1)	7 (4)	1 (1)		
Hyperphosphataemia	10 (5)	3 (2)	0	0		
Psychiatric disorders						
Insomnia	21 (11)	0	12 (6)	0		
Respiratory, thoracic and mediastinal disorders						
Productive cough	12 (6)	0	4 (2)	0		
Vascular disorders						
Hypertension	12 (6)	5 (3)	7 (4)	2 (1)		

Based on the existing safety profile of VENCLEXTA, adverse reactions reported in the venetoclax + rituximab arm of MURANO that fall below the cut-off in Table 12 are presented below by MedDRA body system organ class and by frequency.

Blood and lymphatic system disorders: anaemia (very common), febrile neutropenia (common), lymphopaenia/lymphocyte count decreased (common)

Gastrointestinal disorders: nausea (very common), constipation (very common), vomiting (common)

General disorders and administration site conditions: fatigue (very common)

Infections and infestations: pneumonia (common), sepsis (common)

Investigations: blood creatinine increased (common)

Metabolism and nutrition disorders: tumour lysis syndrome (common), hypocalcaemia (common), hypocalcaemia (common).

During treatment with single agent VENCLEXTA after completion of venetoclax + rituximab combination treatment, the most common all grade adverse events (\geq 5% patients) reported were diarrhoea (19%), neutropenia (14%), upper respiratory tract infection (12%), bronchitis (6%), cough (6%), fatigue (6%), nausea (6%), nasopharyngitis (5%), pyrexia (5%), rash (5%), and sinusitis (5%); the most common grade \geq 3 adverse events (\geq 2% patients) were neutropenia (11%), anaemia (3%), pneumonia (2%), and thrombocytopenia (2%).

VENCLEXTA as monotherapy

The safety of VENCLEXTA is based on pooled data of 352 patients with R/R CLL/SLL treated with VENCLEXTA (400 mg once daily cohort who received at least one dose) in two phase 2 trials (Study M13-982 enrolled patients with previously treated CLL with 17p deletion and Study M14-032 enrolled patients with CLL who had failed an inhibitor of the B-cell receptor pathway), and one phase 1 trial (Study M12-175 enrolled patients with previously treated CLL or SLL, including those with 17p deletion). In the overall safety population, there were 212 patients with 17p deletion and 148 patients who had failed an inhibitor of the B cell receptor pathway. Patients were treated with VENCLEXTA 400 mg monotherapy once daily following the ramp-up schedule.

The frequencies of adverse drug reactions (ADRs) reported with VENCLEXTA are summarised in Table 13.

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Table 13. Adverse drug reactions reported in patients with CLL/SLL treated with VENCLEXTA monotherapy

System Organ Class	Frequency (All grades of severity)	Preferred Term	
Blood and lymphatic system disorders	Very common	Neutropenia ^a Anaemia ^b Lymphopaenia ^c	
	Common	Febrile neutropenia	
Gastrointestinal disorders	Very common	Diarrhoea Vomiting Nausea Constipation	
General disorders and administration site conditions	Very common	Fatigue	
Infections and infestations	Very common	Upper respiratory tract infection Pneumonia	
	Common	Urinary tract infection Sepsis ^d	
Investigations	Common	Blood creatinine increased	
Metabolism and nutrition disorders ^e	Very common	Hyperkalaemia ^f Hyperphosphataemia ^g Hypocalcaemia ^h	
	Common	Tumour lysis syndrome ⁱ Hyperuricaemia ^j	

^aIncludes neutropenia and neutrophil count decreased.

The most frequently reported serious adverse reactions (≥2%) unrelated to disease progression were pneumonia and febrile neutropenia.

Discontinuations due to adverse events occurred in 10.5% of patients.

Dosage reductions due to adverse events occurred in 14% of patients. Dose interruptions due to adverse events occurred in 40% of patients. Of the most frequent adverse events (≥4%) leading to dose reductions or interruptions, the one identified as adverse reaction was neutropenia (5% and 4%, respectively).

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bIncludes anaemia and haemoglobin decreased.

clincludes lymphopaenia and lymphocyte count decreased.

^dIncludes escherichia sepsis, sepsis, septic shock, urosepsis, corynebacterium bacteraemia, corynebacterium sepsis, klebsiella bacteraemia, klebsiella sepsis, pulmonary sepsis, staphylococcal bacteraemia, and staphylococcal sepsis.

^eAdverse reactions for this body system are reported for patients who followed the 5-week ramp-up dosing schedule and TLS prophylaxis and monitoring measures described in Section 4.2 DOSE AND METHOD OF ADMINISTRATION.

flncludes hyperkalaemia and blood potassium increased.

⁹Includes hyperphosphataemia and blood phosphorus increased.

^hIncludes hypocalcaemia and blood calcium decreased.

Reported as TLS events.

^jIncludes hyperuricaemia and blood uric acid increased.

Clinical trial experience in AML

VENCLEXTA in combination with azacitidine

VIALE-A

The safety of VENCLEXTA in combination with azacitidine (N=283) versus placebo with azacitidine (N=144) was evaluated in a double-blind randomised phase 3 study in patients with newly diagnosed AML. Details of the study treatment are described in **Section 5.1 PHARMACODYNAMIC PROPERTIES: Clinical trials: VENCLEXTA in combination with azacitidine**.

The median duration of treatment was 7.6 months (range: <0.1 to 30.7 months) in the VENCLEXTA in combination with azacitidine arm and 4.3 months (range: 0.1 to 24.0 months) in the placebo with azacitidine arm. The median number of cycles of azacitidine was 7 (range: 1 to 30) in the VENCLEXTA in combination with azacitidine arm and 4.5 (range: 1 to 26) in the placebo with azacitidine arm.

In the VENCLEXTA in combination with azacitidine arm, adverse reactions led to permanent venetoclax treatment discontinuations in 24% of patients, venetoclax dose reductions in 2%, and venetoclax dose interruptions in 72%. In the VENCLEXTA in combination with azacitidine arm, no event led to venetoclax discontinuation in \geq 5% of patients. In the placebo with azacitidine arm, adverse reactions led to placebo treatment discontinuations in 20% of patients, placebo dose reductions in 4%, and placebo dose interruptions in 57%.

The most frequent adverse reactions (≥5%) leading to venetoclax dose interruptions in the VENCLEXTA in combination with azacitidine arm were febrile neutropenia (20%), neutropenia (20%), pneumonia (14%), thrombocytopenia (10%), and sepsis (8%). In the placebo with azacitidine arm, the most frequent adverse reaction (≥5%) leading to placebo dose interruption were pneumonia (14%), neutropenia (10%), and sepsis (6%). Among patients who achieved bone marrow clearance of leukaemia, 53% underwent dose interruptions for absolute neutrophil count (ANC) <500/microlitre.

In the VENCLEXTA in combination with azacitidine arm, fatal adverse reactions occurred in 23% of patients, with the most frequent (≥2%) being pneumonia (4%) and sepsis (4%). In the placebo with azacitidine arm, fatal adverse reactions were reported in 20% of patients.

In the VENCLEXTA in combination with azacitidine arm, serious adverse reactions were reported in 83% of patients, with most frequent (≥5%) being febrile neutropenia (30%),

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pneumonia (23%), and sepsis (16%). In the placebo with azacitidine arm, serious adverse reactions were reported in 73% of patients.

The 30-day and 60-day mortality rates observed with VENCLEXTA in combination with azacitidine were 7% (21/283) and 15% (43/283), respectively.

Table 14 provides the adverse reactions reported in VIALE-A.

Table 14. Common (≥10%) adverse reactions reported with ≥5% higher (all grades) or ≥2% higher (grade ≥3) incidence in patients treated with VENCLEXTA + azacitidine compared with placebo + azacitidine

Adverse Reaction by Body System	Frequency (All grades of severity)	VENCLEXTA + azacitidine (N = 283)		Placebo + azacitidine (N = 144)	
		All grades (%)	Grade ≥3 (%)	All grades (%)	Grade ≥3 (%)
Blood and lymphatic sy	stem disorders	•	•		
Thrombocytopenia	Very common	51	48	41	38
Neutropenia ^b	Very common	45	45	30	28
Febrile neutropenia	Very common	42	42	19	19
Anaemia ^c	Very common	28	26	21	20
Gastrointestinal disord	ers				
Nausea	Very common	44	2	35	<1
Diarrhoea	Very common	41	5	33	3
Vomiting	Very common	30	2	23	<1
Stomatitis	Very common	12	<1	6	0
General disorders and	administration site	e conditions			
Fatigue	Very common	21	3	17	1
Asthenia	Very common	16	4	8	<1
Infections and infestati	ons	•			
Sepsis ^d	Very common	18	18	14	14
Metabolism and nutrition	n disorders	•			
Decreased appetite	Very common	25	4	17	<1
Musculoskeletal and co	nnective tissue d	isorders			
Arthralgia	Very common	12	<1	5	0
Nervous system disord	er				
Dizziness/syncope ^e	Very common	19	4	8	1
Respiratory, thoracic, a	nd mediastinal di	sorders			
Dyspnoea	Very common	13	3	8	2
Vascular disorder					
Haemorrhage ^f	Very common	38	10	37	6
Hypotension	Very common	10	5	6	3

^aIncludes thrombocytopenia and platelet count decreased.

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blncludes neutropenia and neutrophil count decreased.

clncludes anaemia and haemoglobin decreased.

dIncludes sepsis, escherichia sepsis, septic shock, bacteraemia, staphylococcal sepsis, klebsiella sepsis, pseudomonal sepsis, urosepsis, bacterial sepsis, candida sepsis, clostridial sepsis, enterococcal sepsis, fungal sepsis, neutropenic sepsis, and streptococcal sepsis.

eIncludes vertigo, dizziness, syncope, and presyncope.

fincludes multiple terms; epistaxis, petechiae, and haematoma occurred in ≥5% of patients.

Other adverse reactions (all grades) reported in the venetoclax + azacitidine arm are presented below:

Gastrointestinal disorders: abdominal pain (11%)

Hepatobiliary disorders: cholecystitis/cholelithiasis^a (4%)

Infections and infestations: pneumonia^b (34%), urinary tract infection (9%)

Investigations: blood bilirubin increased (7%), weight decreased (13%)

Metabolism and nutrition disorders: hypokalaemia (29%), tumour lysis syndrome (1%)

Nervous system disorders: headache (11%).

^aIncludes following terms: cholecystitis acute, cholelithiasis, cholecystitis, and cholecystitis chronic.

blncludes following terms: pneumonia, lung infection, bronchopulmonary aspergillosis, pneumonia fungal, pneumonia klebsiella, atypical pneumonia, pneumonia viral, infectious pleural effusion, pneumonia haemophilus, pneumonia pneumococcal, pneumonia respiratory syncytial viral, pulmonary mycosis, pulmonary nocardiosis, and tuberculosis.

Study M14-358

The safety of VENCLEXTA in combination with azacitidine (N=84) was evaluated in a non-randomised study in patients with newly diagnosed AML.

Discontinuations of VENCLEXTA due to adverse events occurred in 25% of patients. The most frequent adverse reactions leading to drug discontinuation (≥2%) were febrile neutropenia and pneumonia. Dosage interruptions of VENCLEXTA due to adverse events occurred in 68% of patients. The most frequent adverse reactions leading to dose interruption (≥5%) were febrile neutropenia, neutropenia/neutrophil count decreased and pneumonia. Dosage reductions of VENCLEXTA due to adverse reactions occurred in 1% of patients.

The most common adverse reactions (≥30%) of any grade were nausea (64%), diarrhoea (61%), thrombocytopenia/platelet count decreased (54%), neutropenia/neutrophil count decreased (46%), hypokalaemia (35%), febrile neutropenia (39%), vomiting (38%), fatigue (36%) and pneumonia³ (38%).

Serious adverse events were reported in 77% of patients. The most frequent serious adverse reactions (≥5%) were febrile neutropenia and pneumonia.

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The 30-day and 60-day mortality rates observed with VENCLEXTA in combination with azacitidine were 2.4% (2/84) and 8.3% (7/84), respectively.

^aIncludes the following terms: pneumonia, lung consolidation, and pneumonia fungal.

VENCLEXTA in combination with low-dose cytarabine

VIALE-C

The safety of VENCLEXTA (600 mg daily dose) in combination with low-dose cytarabine (N=142) versus placebo with low-dose cytarabine (N=68) was evaluated in a double-blind randomised phase 3 study in patients with newly diagnosed AML (see Section 5.1 PHARMACODYNAMIC PROPERTIES: Clinical trials: VENCLEXTA in combination with low-dose cytarabine).

The median duration of treatment was 4.1 months (range: <0.1 to 23.5 months) in the VENCLEXTA in combination with low-dose cytarabine arm and 1.7 months (range: 0.1 to 20.2 months) in the placebo with low-dose cytarabine arm. The median number of cycles of low-dose cytarabine was 4 (range: 1 to 22) in the VENCLEXTA in combination with low-dose cytarabine arm and 2 (range: 1 to 22) (28 days per cycle) in the placebo with low-dose cytarabine arm.

In the VENCLEXTA in combination with low-dose cytarabine arm, adverse reactions led to treatment discontinuations in 26% of patients, venetoclax dose reductions in 10%, and venetoclax dose interruptions in 63%. In the placebo with low-dose cytarabine arm, adverse reactions led to placebo treatment discontinuations in 24% of patients, placebo dose reductions in 7%, and placebo dose interruptions in 51%.

The most frequent adverse reaction leading to venetoclax discontinuation in the VENCLEXTA in combination with low-dose cytarabine arm was pneumonia (7%); sepsis (4%) was the most frequent adverse reaction leading to discontinuation in the placebo with low-dose cytarabine arm.

The most frequent adverse reactions (≥2%) leading to dose reductions in the VENCLEXTA in combination with low-dose cytarabine arm was thrombocytopenia (2%). The most frequent adverse reactions (≥5%) leading to dose interruption in the VENCLEXTA in combination with low-dose cytarabine arm were neutropenia (23%), thrombocytopenia (15%), pneumonia (8%), febrile neutropenia (8%), and anaemia (6%), and in the placebo with low-dose cytarabine arm were pneumonia (12%), thrombocytopenia (9%), febrile neutropenia (7%), neutropenia (6%),

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and sepsis (6%). Among patients who achieved bone marrow clearance of leukaemia, 37% underwent dose interruptions for ANC <500/microlitre.

Fatal adverse reactions were reported in 23% of patients in the VENCLEXTA in combination with low-dose cytarabine arm, with the most frequent (≥ 5%) being pneumonia (5%). In the placebo with low-dose cytarabine arm, fatal adverse reactions were reported in 21% of patients.

Serious adverse reactions were reported in 67% of patients in the VENCLEXTA in combination with low-dose cytarabine arm, with the most frequent (≥ 10%) being pneumonia (20%), febrile neutropenia (17%), and sepsis (13%). In the placebo with low-dose cytarabine arm, serious adverse reactions were reported in 62% of patients. The most frequent were febrile neutropenia (18%), sepsis (18%), and pneumonia (16%).

The 30-day and 60-day mortality rates observed with VENCLEXTA in combination with low-dose cytarabine were 13% (18/142) and 20% (29/142), respectively.

Table 15 presents adverse reactions identified in the VIALE-C trial.

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Table 15. Common (≥10%) adverse reactions reported with ≥5% higher (all grades) or ≥2% higher (grade ≥3) incidence in patients treated with VENCLEXTA + low-dose cytarabine compared with placebo + low-dose cytarabine

Adverse Reaction by Body System	Frequency (All grades of severity)	VENCLEXTA + low- dose cytarabine (N = 142)		Placebo + low-dose cytarabine (N = 68)	
Body System		All grades (%)	Grade ≥3 (%)	All grades (%)	Grade ≥3 (%)
Blood and lymphatic syst	em disorders				
Thrombocytopenia ^a	Very common	50	50	46	44
Neutropenia ^b	Very common	53	53	22	21
Febrile neutropenia	Very common	32	32	29	29
Anaemia	Very common	29	27	22	22
Gastrointestinal disorders	5				
Nausea	Very common	43	1	31	0
Diarrhoea	Very common	33	3	18	0
Vomiting	Very common	29	<1	15	0
Abdominal pain	Very common	12	0	4	1
Infections and infestation	S				
Pneumonia ^c	Very common	30	25	22	22
Investigations					
Blood bilirubin increased	Very common	11	2	1	0
Metabolism and nutrition	disorders				
Hypokalaemia	Very common	31	12	25	16
Nervous System Disorder	'S				
Headache	Very common	14	0	4	0
Dizziness/syncope ^d	Very common	14	2	6	0
Vascular Disorders					
Haemorrhagee	Very common	42	11	31	7
^a Includes thrombocytopenia ar	nd platelet count dec	reased.			•

Other adverse drug reactions reported in the venetoclax + low-dose cytarabine arm are presented below:

Gastrointestinal disorder: stomatitis (10%)

General disorders and administration site conditions: fatigue (16%), asthenia (12%)

Hepatobiliary disorders: cholecystitis/cholelithiasis^a (2%)

Infections and infestations: sepsis^b (15%), urinary tract infection (7%)

Investigations: weight decreased (10%)

blncludes neutropenia and neutrophil count decreased.

^cIncludes pneumonia, lung infection, pneumonia fungal, pulmonary mycosis, bronchopulmonary aspergillosis, pneumocystis jirovecii pneumonia, pneumonia cytomegaloviral, pneumonia pseudomonal.

dIncludes vertigo, dizziness, syncope, and presyncope.

eIncludes multiple terms; no events occurred in ≥5% of patients.

Metabolism and nutrition disorders: decreased appetite (22%), tumour lysis syndrome (6%)

Musculoskeletal and connective tissue disorders: arthralgia (8%)

Respiratory, thoracic, and mediastinal disorders: dyspnoea (8%)

Vascular disorders: hypotension (10%).

^aIncludes following terms: cholecystitis acute, cholecystitis, and cholecystitis chronic.

^bIncludes following terms: sepsis, septic shock, bacteraemia, neutropenic sepsis, bacterial sepsis, and staphylococcal sepsis.

Study M14-387

The safety of VENCLEXTA in combination with low-dose cytarabine (N=82) was evaluated in a non-randomised study, in patients with newly diagnosed AML.

Discontinuations of VENCLEXTA due to adverse events occurred in 33% of patients. The most frequent adverse reactions leading to venetoclax discontinuation (≥2%) were thrombocytopenia, sepsis and haemorrhage intracranial. Dosage interruptions of VENCLEXTA due to adverse events occurred in 59% of patients. The most frequent adverse reactions leading to venetoclax interruption (≥5%) were thrombocytopenia and neutropenia. Dosage reductions of VENCLEXTA due to adverse events occurred in 7% of patients. The most frequent adverse reaction leading to dose reduction (≥2%) was thrombocytopenia.

The most common adverse reactions (≥30%) of any grade were nausea (70%), thrombocytopenia/platelet count decreased (61%), diarrhoea (50%), hypokalaemia (49%), neutropenia/neutrophil count decreased (46%), febrile neutropenia (44%), fatigue (43%), decreased appetite (37%), anaemia/haemoglobin decreased (32%), and vomiting (30%).

Serious adverse events were reported in 91% of patients. The most frequent serious adverse reactions (≥5%) were febrile neutropenia, pneumonia and sepsis.

Tumour lysis syndrome

Tumour lysis syndrome is an important identified risk when initiating VENCLEXTA. TLS prophylaxis and monitoring measures are described in the Dosage and Administration section (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**).

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Chronic Lymphocytic Leukaemia/Small Lymphocytic Lymphoma

VENCLEXTA as monotherapy

In the initial Phase 1 dose-finding trials, which had a relatively short (2-3 week) ramp-up phase and relatively high starting dose, the incidence of TLS was 13% (10/77; 5 laboratory TLS, 5 clinical TLS), including 2 fatal events and 3 events of acute renal failure, 1 requiring dialysis.

The risk of TLS was reduced after revision of the dosing regimen and modification to prophylaxis and monitoring measures (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**). In venetoclax clinical trials, patients with any measurable lymph node \geq 10 cm or those with both an ALC \geq 25 x 10 9 /L and any measurable lymph node \geq 5 cm were hospitalised to enable more intensive hydration and monitoring for the first day of dosing at 20 mg and 50 mg during the ramp-up phase.

In 168 patients with CLL starting with a daily dose of 20 mg and increasing over 5 weeks to a daily dose of 400 mg in studies M13-982 and M14-032, the rate of TLS was 2.4%. All events were laboratory TLS (laboratory abnormalities that met \geq 2 of the following criteria within 24 hours of each other: potassium >6 mmol/L, uric acid >476 μ mol/L, calcium <1.75 mmol/L, or phosphorus >1.5 mmol/L; or were reported as TLS events) and occurred in patients who had a lymph node(s) \geq 5 cm and/or ALC \geq 25 x 10 9 /L. All events resolved within 5 days. No TLS with clinical consequences such as acute renal failure, cardiac arrhythmias or sudden death and/or seizures was observed in these patients. All patients had CrCl \geq 50 mL/min.

VENCLEXTA in combination with rituximab

In the open-label, randomised phase 3 study (MURANO), the incidence of TLS was 3% (6/194) in patients treated with venetoclax + rituximab. After 77/389 patients were enrolled in the study, the protocol was amended to include the TLS prophylaxis and monitoring measures described in Dosage and Administration section (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**). All events of TLS occurred during the VENCLEXTA ramp-up phase and resolved within two days. All 6 patients completed the ramp-up and reached the recommended daily dose of 400 mg of VENCLEXTA. No clinical TLS was observed in patients who followed the current 5-week ramp-up dosing schedule and TLS prophylaxis and monitoring measures described (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**). The rates of grade ≥3 laboratory abnormalities relevant to TLS were hyperkalaemia 1%, hyperphosphataemia 1%, and hyperuricaemia 1%.

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VENCLEXTA in combination with obinutuzumab

In the open-label, randomised phase 3 study (CLL14), the incidence of TLS was 1% (3/212) in patients treated with venetoclax + obinutuzumab (see **Section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE: Tumour Lysis Syndrome**). All three events of TLS resolved and did not lead to withdrawal from the study. Obinutuzumab administration was delayed in two cases in response to the TLS events.

VENCLEXTA in combination with ibrutinib

In the open-label, randomized phase 3 study (GLOW), no adverse event of TLS was observed.

In the single-arm phase 3 study (CAPTIVATE), the incidence of laboratory TLS was 0.3% (1/323), reported in the MRD-guided cohort.

Acute Myeloid Leukaemia

<u>VENCLEXTA</u> in combination with azacitidine (VIALE-A) and VENCLEXTA in combination with low-dose cytarabine (VIALE-C)

In the randomised, phase 3 study (VIALE-A) with venetoclax in combination with azacitidine, the incidence of TLS was 1.1% (3/283, 1 clinical TLS) and in the phase 3 study (VIALE-C) the incidence of TLS was 5.6% (8/142, 4 clinical TLS, 2 of which were fatal). The studies required reduction of white blood cell count to <25 x 10⁹/L prior to venetoclax initiation and a dose rampup schedule in addition to standard prophylaxis and monitoring measures (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION; Dose modifications based on adverse reactions**). All cases of TLS occurred during dose ramp-up.

Neutropenia

Neutropenia is an identified risk associated with VENCLEXTA treatment and occurs very commonly.

Chronic Lymphocytic Leukaemia/Small Lymphocytic Lymphoma

VENCLEXTA in combination with rituximab

In the MURANO study (venetoclax + rituximab versus bendamustine + rituximab for the treatment of patients with CLL), neutropenia of any grade was reported in 61%, and led to venetoclax interruption for 43% and discontinuation for 3% of patients in the venetoclax + rituximab arm. Grade 3 and grade 4 neutropenia were reported in 32% and 26% of venetoclax-treated patients, respectively. The median duration of grade 3 or 4 neutropenia was 8 days

(range: 1-712 days). Clinical complications of neutropenia, including febrile neutropenia, grade ≥3 and serious infections were reported less frequently in the venetoclax + rituximab arm compared to the bendamustine + rituximab arm: febrile neutropenia 4% versus 10%, grade ≥3 infections 18% versus 23% and serious infections 21% versus 24% (see **Section 4.8 ADVERSE EFFECTS: Serious infection**).

VENCLEXTA in combination with ibrutinib

In the venetoclax + ibrutinib arm in the GLOW study, neutropenia (all grades) was reported in 42% of patients; grade 3 or 4 neutropenia was reported in 35% of patients. Nineteen percent experienced dose interruption and 8% had dose reduction due to neutropenia. In the venetoclax + ibrutinib arm versus the obinutuzumab + chlorambucil arm, respectively, the following were reported: febrile neutropenia 2% versus 3%, grade ≥ 3 infections 7% versus 9%, and serious infections 12% versus 9%.

In the CAPTIVATE study, neutropenia (all grades) was reported in 47% of patients in the venetoclax + ibrutinib arm; grade 3 or 4 neutropenia was reported in 37% of patients. Fourteen percent experienced dose interruption, 4% had dose reduction and 1 patient (0.3%) discontinued venetoclax due to neutropenia. Febrile neutropenia was reported in 1%, grade ≥ 3 infections in 8%, and serious infections in 8% of patients.

VENCLEXTA in combination with obinutuzumab

In the CLL14 study, neutropenia (all grades) was reported in 58% of patients in the venetoclax + obinutuzumab arm. Forty-one percent experienced dose interruption, 13% had dose reduction and 2% discontinued venetoclax due to neutropenia. Grade 3 neutropenia was reported in 25% of patients and grade 4 neutropenia in 28% of patients. The median duration of grade 3 or 4 neutropenia was 22 days (range: 2 to 363 days). The following complications of neutropenia were reported in the venetoclax + obinutuzumab arm versus the obinutuzumab + chlorambucil arm, respectively: febrile neutropenia 6% versus 4%, grade ≥3 infections 19% versus 16%, and serious infections 19% versus 14% (see Section 4.8 ADVERSE EFFECTS: Serious infection).

Acute Myeloid Leukaemia

VENCLEXTA in combination with azacitidine

In the VIALE-A study, grade ≥ 3 neutropenia was reported in 45% of patients. The following were reported in the venetoclax + azacitidine arm versus the placebo + azacitidine arm,

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respectively: febrile neutropenia 42% versus 19%, grade ≥3 infections 64% versus 51%, and serious infections 57% versus 44%.

VENCLEXTA in combination with low-dose cytarabine

In the VIALE-C study, grade ≥ 3 neutropenia was reported in 53% of patients. The following were reported in the venetoclax + low-dose cytarabine arm versus the placebo + low-dose cytarabine arm, respectively: febrile neutropenia 32% versus 29%, grade ≥3 infections 43% versus 50%, and serious infections 37% versus 37%.

Serious infection

Serious infection is an identified risk associated with VENCLEXTA treatment.

VENCLEXTA in combination with rituximab

The most commonly reported serious infection in the venetoclax + rituximab treated patients was pneumonia (8%).

VENCLEXTA in combination with obinutuzumab

There were 56 events of serious infection, including 8 with fatal outcome, in 40/212 patients treated with venetoclax + obinutuzumab compared to 44 serious infection events, including 3 with fatal outcome, in 30/214 patients treated with chlorambucil + obinutuzumab. Of the 52/56 serious events in the patients treated with venetoclax + obinutuzumab for which neutrophil counts at the time of onset of the serious infection were available, 8/52 events occurred in the setting of neutropenia. Some serious infections occurred some time after completion of venetoclax treatment.

VENCLEXTA as monotherapy

The most frequently reported serious adverse reactions related to infection were pneumonia (9%), febrile neutropenia (5%), and sepsis (5%). There have been 2 reports of death from septic shock occurring in the absence of disease progression and within 30 days of venetoclax treatment.

4.9 Overdose

Daily doses of up to 1200 mg of VENCLEXTA have been evaluated in clinical trials. There has been no experience with overdose in clinical trials. If an overdose is suspected, treatment should consist of general supportive measures.

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For information on the management of overdose in Australia contact the Poison Information

Centre on 13 11 26.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: other antineoplastic agents

ATC code: L01XX52

Mechanism of action

Venetoclax is an orally bioavailable small-molecule inhibitor of B-cell lymphoma (BCL)-2, an anti-apoptotic protein. Overexpression of BCL-2 has been demonstrated in chronic

lymphocytic leukaemia (CLL) and acute myeloid leukaemia (AML) cells, as well as various

other haematological and solid tumour malignancies and has been implicated in resistance to

certain therapeutic agents. Venetoclax helps restore the process of apoptosis by binding

directly to the BCL-2 protein, displacing pro-apoptotic proteins like BIM, triggering

mitochondrial outer membrane permeabilisation, the release of cytochrome c from

mitochondria and the activation of caspases. In nonclinical studies, venetoclax demonstrated

cytotoxic activity in tumour cells that overexpress BCL-2.

Cardiac electrophysiology

The effect of multiple doses of VENCLEXTA up to 1200 mg once daily on the QTc interval

was evaluated in an open-label, single-arm study in 176 patients with previously treated CLL

or Non-Hodgkin lymphoma (NHL). VENCLEXTA had no effect on QTc interval and there was

no relationship between venetoclax exposure and change in QTc interval.

Clinical trials

Chronic Lymphocytic Leukaemia/Small Lymphocytic Lymphoma

VENCLEXTA in combination with obinutuzumab

CLL14

CLL14 was a randomised (1:1), multicentre, open label phase 3 study that evaluated the

efficacy and safety of VENCLEXTA in combination with obinutuzumab versus obinutuzumab

in combination with chlorambucil for previously untreated CLL in patients with coexisting

medical conditions CIRS score > 6 or creatinine clearance < 70 mL/min). The trial required

hepatic transaminases and total bilirubin ≤ 2 times upper limit of normal and excluded patients with Richter's transformation or any individual organ/system impairment score of 4 by CIRS except eye, ear, nose, and throat organ system.

Patients in the study were assessed for risk of TLS and received prophylaxis and monitoring accordingly prior to obinutuzumab administration and during VENCLEXTA ramp-up. All patients received obinutuzumab at 1000 mg on Cycle 1 Day 1 (the first dose was split as 100 mg and 900 mg on Days 1 and 2), and 1000 mg doses on Days 8 and 15 of Cycle 1, and on Day 1 of each subsequent cycle, for a total of 6 cycles. On Day 22 of Cycle 1, patients in the venetoclax + obinutuzumab arm began the 5-week VENCLEXTA ramp-up schedule (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION). After completing the ramp-up schedule on Cycle 2 Day 28, patients received VENCLEXTA 400 mg once daily from Cycle 3 Day 1 until the last day of Cycle 12. Patients randomised to the obinutuzumab + chlorambucil arm received 0.5 mg/kg oral chlorambucil on Day 1 and Day 15 of Cycles 1 to 12, in the absence of disease progression or unacceptable toxicity. Each cycle was 28 days. Following completion of 12 cycles of VENCLEXTA, patients continued to be followed for disease progression and overall survival.

Baseline demographic and disease characteristics were similar between the study arms (Table 16).

Table 16. Demographics and baseline characteristics in CLL14

Characteristic	VENCLEXTA + obinutuzumab (N = 216)	Obinutuzumab + chlorambucil (N = 216)
Age, years; median (range)	72 (43-89)	71 (41-89)
White, %	89	90
Male, %	68	66
ECOG performance status, %	•	
0	41	48
1	46	41
2	13	12
CIRS score, median (range)	9 (0-23)	8 (1-28)
Creatinine clearance < 70 mL/min, %	60	56
Binet Stage at screening, %		
A	21	20
В	36	37
С	43	43
CLL subsets %	•	
17p deletion	9	7
11q deletion	18	20
TP53 mutation	11	9
IgVH unmutated	56	57

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At baseline, the median lymphocyte count was 55×10^9 cells/L in both study arms. On Cycle 1 Day 15, the median count decreased to 1.03×10^9 cells/L (range $0.2-43.4 \times 10^9$ cells/L) in the obinutuzumab + chlorambucil arm compared with 1.27×10^9 cells/L (range $0.2-83.7 \times 10^9$ cells/L) in the venetoclax + obinutuzumab arm.

The median follow-up at the time of analysis was 28 months (range: 0 to 36 months).

The primary endpoint was progression-free survival (PFS) as assessed by investigators using the International Workshop for Chronic Lymphocytic Leukemia (IWCLL) updated National Cancer Institute-sponsored Working Group (NCI-WG) guidelines (2008).

Efficacy results for CLL14 are shown in Table 17.

Table 17. Efficacy results for CLL14

	INV-assessed		IRC-as	sessed
	VENCLEXTA +	Obinutuzumab +	VENCLEXTA +	Obinutuzumab
	obinutuzumab	chlorambucil	obinutuzumab	+ chlorambucil
	(N = 216)	(N = 216)	(N = 216)	(N = 216)
Progression-free surviva	l ^{la}	1		
Number of events (%)	30 (14)	77 (36)	29 (13)	79 (37)
Disease progression	14 (6)	69 (32)	14 (6)	71 (33)
Deaths	16 (7)	8 (4)	15 (7)	8 (4)
Median, months	Not reached	Not reached	Not reached	Not reached
HR (95% CI) ^b	0.35 (0.2	23, 0.53)	0.33 (0.	22, 0.51)
p-value	<0.0	0001	<0.0001	
12-month estimate, %	95	92	95	91
(95% CI)	(91.5, 97.7)	(88.4, 95.8)	(91.5, 97.7)	(87.3, 95.1)
24-month estimate, %	88	64	89	64
(95% CI)	(83.7, 92.6)	(57.4, 70.8)	(84.2, 93)	(57, 70.4)
Response rate ^c , n (%)				
ORR	183 (85)	154 (71)	NA	NA
(95% CI)	(79.2, 89.2)	(64.8, 77.2)		
CR	100 (46)	47 (22)	NA	NA
CR+CRi	107 (50)	50 (23)	NA	NA
PR	76 (35)	104 (48)	NA	NA
Time to next anti-leukaemic therapy				
Number of events (%)	27 (13)	45 (21)	NA	NA
Median, months	Not reached	Not reached	NA	NA
HR (95% CI)	0.6 (0.37, 0.97)		NA	NA

CI = confidence interval; CR = complete response; CRi = complete response with incomplete marrow recovery; HR = hazard ratio; INV = investigator; IRC = independent review committee; ORR = overall response rate (CR + CRi + nPR + PR); PR = partial response.

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^a From randomisation until earliest event of disease progression or death due to any cause. Kaplan-Meier estimate.

^b HR estimate is based on Cox-proportional hazards model stratified by Binet Stage and geographic region; p-value based on log rank test stratified by the same factors.

^C Per 2008 International Workshop for Chronic Lymphocytic Leukemia (IWCLL) guidelines.

At the time of analysis, median overall survival (OS) had not been reached, with fewer than 10% of patients experiencing an event. The median duration of follow-up for OS was 28 months.

Minimal residual disease (MRD) was evaluated using allele-specific oligonucleotide polymerase chain reaction (ASO-PCR). The cutoff for a negative status was <1 CLL cell per 10^4 leukocytes. Rates of MRD negativity 3 months after the completion of treatment regardless of response and in patients with CR/CRi are shown in Table 18. At this assessment, 134 patients in the venetoclax + obinutuzumab arm who were MRD negative in peripheral blood had matched bone marrow specimens; of these, 122 patients (91%) were MRD negative in both peripheral blood and bone marrow.

Table 18. Minimal residual disease negativity rates three months after the completion of treatment in CLL14

	VENCLEXTA + obinutuzumab (N = 216)	Obinutuzumab + chlorambucil (N = 216)
Peripheral blood		
MRD negativity rate, n (%)	163 (76)	76 (35)
[95% CI]	[69.17, 81.05]	[28.83, 41.95]
p-value ^a	<0.0	001
MRD negativity rate in patients with CR/CRi, n (%)	91 (42)	31 (14)
[95% CI]	[35.46, 49.02]	[9.96, 19.75]
p-value ^a	<0.0	001
Bone marrow		
MRD negativity rate, n (%)	123 (57)	37 (17)
[95% CI]	[50.05, 63.64]	[12.36, 22.83]
p-value ^a	<0.0	001
MRD negativity rate in patients with CR/CRi, n (%)	73 (34)	23 (11)
[95% CI]	[27.52, 40.53]	[6.87, 15.55]
p-value ^a <0.0001		
CI = confidence interval; CR = complete response; CR	Ri = complete response w	vith incomplete marrow
recovery; MRD = minimal residual disease.		
^a p-value based on Chi-square test		

Twelve months after the completion of treatment, MRD negativity rates in peripheral blood were 58% (126/216) in patients treated with venetoclax + obinutuzumab and 9% (20/216) in patients treated with obinutuzumab + chlorambucil.

In paired samples, the concordance of MRD negativity between peripheral blood and bone marrow samples at end of treatment was 91% in the venetoclax + obinutuzumab arm and 58% in the obinutuzumab + chlorambucil arm.

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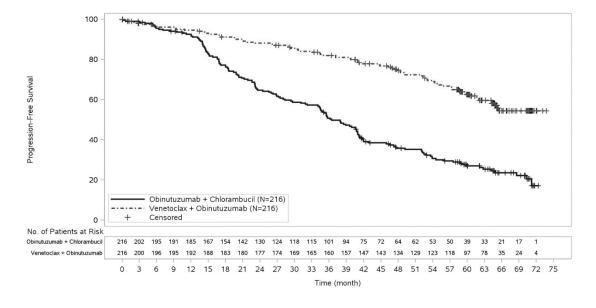
Efficacy was assessed after a median follow-up of 65 months (Table 19).

Table 19. Investigator-Assessed Efficacy Results in CLL14 (65–Month Follow-up)

Endpoint	VENCLEXTA + Obinutuzumab (N = 216)	Obinutuzumab + Chlorambucil (N = 216)	
Progression-free survival			
Number of events (%)	80 (37)	150 (69)	
Median, months (95% CI)	NR (64.8, NE)	36.4 (34.1, 41.0)	
HR, stratified (95% CI)	0.35 (0	.26, 0.46)	
Overall survival			
Number of events (%)	40 (19)	57 (26)	
Median, months (95% CI)	NR	NR	
HR, stratified (95% CI)	0.72 (0	.48, 1.09)	
Time to next anti-leukaemic treatmer	nt		
Number of events (%)	62 (29)	125 (58)	
Median, months (95% CI)	NR	52.9 (44.9, 59.0)	
HR, stratified (95% CI)	0.42 (0	0.42 (0.31, 0.57)	
CI= confidence interval; HR: hazard ratio; NE = not evaluable; NR = not reached			

The Kaplan-Meier curve for investigator-assessed PFS is shown in Figure 1.

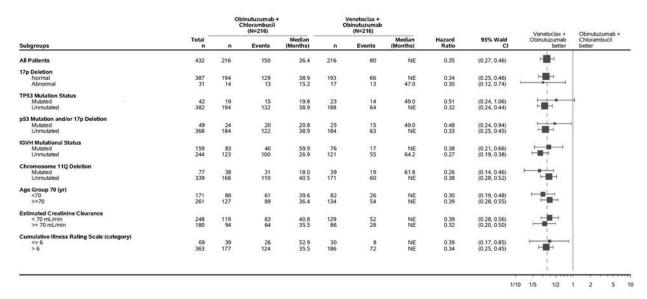
Figure 1. Kaplan-Meier Curve of Investigator-Assessed Progression-Free Survival (ITT Population) in CLL14 (65-Month Follow-up)



The PFS benefit with venetoclax + obinutuzumab versus obinutuzumab + chlorambucil treatment was observed across all subgroups of patients evaluated (Figure 2).

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Figure 2. Forest Plot of Investigator-Assessed PFS in Subgroups From CLL14 (65-Month Follow-up)



Unstratified hazard ratio is displayed.

CI = confidence interval

NE = not evaluable

Study GP28331

Study GP28331 was a multicentre, open-label, non-randomised study of venetoclax administered in combination with obinutuzumab that included 32 patients with previously untreated CLL. Twenty-two patients had a baseline creatinine clearance ≥70 mL/min and a baseline ECOG of 0 or 1, and were therefore eligible to receive chemo-immunotherapy (e.g. fludarabine, cyclophosphamide, rituximab [FCR] or bendamustine and rituximab [BR]) as treatment. All 22 patients responded and 16 patients (73%) achieved a CR/CRi (investigatorassessed) with a median duration of follow-up of 26.7 months (range: 16 to 39 months). The 24-month PFS rate was 86% (95%CI: 72.02 to 100.00).

VENCLEXTA in combination with ibrutinib

GLOW (Study CLL3011)

A randomised, open-label, Phase 3 study of venetoclax in combination with ibrutinib versus chlorambucil in combination with obinutuzumab, was conducted in patients with previously untreated CLL or SLL who were 65 years or older, and adult patients < 65 years of age with a CIRS score > 6 or CrCL \geq 30 to < 70 mL/min. Patients with 17p deletion or known *TP53* mutations were excluded.

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Patients (n=211) were randomised 1:1 to receive either venetoclax in combination with ibrutinib or chlorambucil in combination with obinutuzumab. Patients in the venetoclax + ibrutinib arm received single agent ibrutinib for 3 cycles followed by venetoclax in combination with ibrutinib for 12 cycles (including 5-week dose ramp up). Each cycle was 28 days. Ibrutinib was administered at a dose of 420 mg daily. Venetoclax was administered according to the 5 week dose ramp-up, then at the recommended daily dose of 400 mg (see **Section 4.2 DOSAGE AND METHOD OF ADMINISTRATION**). Patients randomised to the chlorambucil + obinutuzumab arm received treatment for 6 cycles. Obinutuzumab was administered at a dose of 1000 mg on Days 1, 8 and 15 in Cycle 1. In Cycles 2 to 6, 1000 mg obinutuzumab was given on Day 1. Chlorambucil was administered at a dose of 0.5 mg/kg body weight on Days 1 and 15 of Cycles = 1 to 6. Patients with confirmed progression by IWCLL criteria after completion of either fixed-duration regimen could be treated with single-agent ibrutinib.

The median age was 71 years (range, 47 to 93 years), 58% were male, and 96% were Caucasian. All patients had a baseline ECOG performance status of 0 (35%), 1 (53%), or 2 (12%). The trial enrolled 197 patients with CLL and 14 patients with SLL. At baseline, 18% of patients presented with CLL/SLL with 11q deletion and 52% with unmutated IgHV. The most common reasons for initiating CLL therapy included: constitutional symptoms (59%), progressive marrow failure (48%), lymphadenopathy (36%), splenomegaly (28%) and progressive lymphocytosis (19%). At baseline assessment for risk of TLS, 25% of patients had high tumour burden. After 3 cycles of single-agent ibrutinib lead-in therapy, 2% of patients had high tumour burden. High tumour burden was defined as any lymph node \geq 10 cm; or any lymph node \geq 5 cm and absolute lymphocyte count \geq 25x10 9 /L.

With a median follow-up time on study of 28 months, efficacy results for GLOW assessed by an IRC according to IWCLL criteria are shown in Table 20, the Kaplan-Meier curve for PFS is shown in Figure 3, and rates of MRD negativity are shown in Table 21.

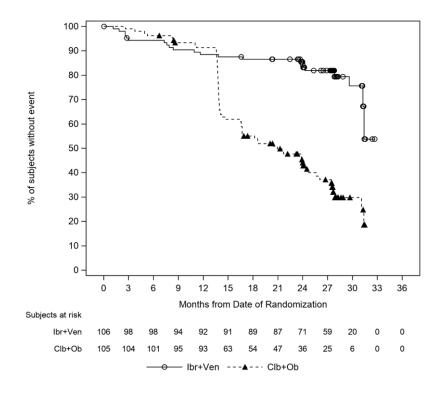
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Table 20. Efficacy Results in GLOW

Endpoint ^a	Venetoclax + Ibrutinib N = 106	Chlorambucil + Obinutuzumab N = 105	
Progression-Free Survival			
Number of events (%)	22 (20.8)	67 (63.8)	
Median, months (95% CI)	NE (31.2, NE)	21.0 (16.6, 24.7)	
HR (95% CI)	0.22 (0.13, 0.36)		
p-value ^b	<	<0.0001	
Overall Response Rate (%) ^c	86.8	84.8	
95% CI	(80.3, 93.2)	(77.9, 91.6)	
Complete Response Rate (%) ^d	38.7	11.4	
95% CI	(29.4, 48.0)	(5.3, 17.5)	
p-value ^e	<0.0001		

CR = complete response; CRi = complete response with incomplete marrow recovery; HR = hazard ratio; NE = not evaluable; nPR = nodular partial response; PR = partial response

Figure 3. Kaplan-Meier Curve of Progression-Free Survival (ITT Population) in Patients with Previously Untreated CLL in GLOW.



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^a Based on IRC assessment

^b P-value is from stratified log-rank test

^c Overall response = CR+CRi+nPR+PR

^d Includes 3 patients in the venetoclax + ibrutinib arm with a complete response with incomplete marrow recovery (CRi)

e P-value is from Cochran-Mantel-Haenszel chi-square test

Across the high-risk CLL/SLL population (n=123), including *TP53* mutation (n=9), 11q deletion (n=38), or unmutated *IgHV* (n=109), the treatment effect of venetoclax + ibrutinib was consistent, with a PFS HR of 0.23 [95% CI (0.13, 0.41)].

Table 21. Minimal Residual Disease Negativity Rates in GLOW

	NGS Assay ^a		Flow (Cytometryb
	Venetoclax + Ibrutinib N=106	Chlorambucil + Obinutuzumab N=105	Venetoclax + Ibrutinib N=106	Chlorambucil + Obinutuzumab N=105
MRD Negativity Rate				
Bone marrow, n (%)	59 (55.7)	22 (21.0)	72 (67.9)	24 (22.9)
95% CI	(46.2, 65.1)	(13.2, 28.7)	(59.0, 76.8)	(14.8, 30.9)
p-value	<0.0001			
Peripheral Blood, n (%)	63 (59.4)	42 (40.0)	85 (80.2)	49 (46.7)
95 % CI	(50.1, 68.8)	(30.6, 49.4)	(72.6, 87.8)	(37.1, 56.2)
p-value				
MRD Negativity Rate at 3 M	onths After Con	pletion of Treatme	nt	
Bone marrow, n (%)	55 (51.9)	18 (17.1)	60 (56.6)	17 (16.2)
95% CI	(42.4, 61.4)	(9.9, 24.4)	(47.2, 66.0)	(9.1, 23.2)
p-value	<0.0001			·
Peripheral Blood, n (%)	58 (54.7)°	41 (39.0)	65 (61.3)	43 (41.0)
95 % CI	(45.2, 64.2)	(29.7, 48.4)	(52.0, 70.6)	(31.5, 50.4)
p-value		·		

CI = confidence interval; NGS = next-generation sequencing

Twelve months after the completion of treatment, MRD negativity rates in peripheral blood were 49.1% (52/106) by next-generation sequencing (NGS) assay and 54.7% (58/106) by flow cytometry in patients treated with venetoclax + ibrutinib and, at the corresponding time point, was 12.4% (13/105) by NGS assay and 16.2% (17/105) by flow cytometry in patients treated with chlorambucil + obinutuzumab.

TLS was reported in 6 patients treated with chlorambucil + obinutuzumab and no TLS was reported in venetoclax in combination with ibrutinib as the study protocol included a specific TLS management strategy.

With a median follow-up of 46.1 months, 15 (out of 106, 14.2%) death events were observed in the venetoclax + ibrutinib arm versus 30 (out of 105, 28.6%) death events in the chlorambucil + obinutuzumab arm. This corresponds to a HR of 0.487 (95% CI: 0.262, 0.907) and a nominal p=0.0205.

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P-values are from Cochran-Mantel-Haenszel chi-square test. Except the p-value for MRD negativity rate in bone marrow by NGS, which is the primary MRD analysis, all other p-values are nominal.

^a Based on threshold of 10-4 using a next-generation sequencing assay (clonoSEQ)

^b MRD was evaluated by flow cytometry of peripheral blood or bone marrow per central laboratory. The definition of negative status was <1 CLL cell per 10,000 leukocytes (<1x10⁴).

^c 56 patients had matched bone marrow specimens; 52 patients were MRD negative in both peripheral blood and bone marrow.

CAPTIVATE (Study PCYC-1142-CA)

A Phase 2, multi-centre, 2-cohort study assessing both MRD-guided discontinuation and fixed-duration therapy with venetoclax in combination with ibrutinib, was conducted in adult patients who were 70 years or younger with previously untreated CLL or SLL. The study enrolled 323 patients, of these, 159 patients were enrolled to fixed-duration therapy consisting of 3 cycles of single agent ibrutinib followed by venetoclax in combination with ibrutinib for 12 cycles (including 5 week dose ramp-up). Each cycle was 28 days. Ibrutinib was administered at a dose of 420 mg daily. Venetoclax was administered according to the 5 week dose ramp-up, then at the recommended daily dose of 400 mg (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**). Patients with confirmed progression by IWCLL criteria after completion of the fixed duration regimen could be retreated with single-agent ibrutinib, and 9 patients received this treatment.

The median age was 60 years (range, 33 to 71 years), 67% were male, and 92% were white. All patients had a baseline ECOG performance status of 0 (69%) or 1 (31%). The trial enrolled 146 patients with CLL and 13 patients with SLL. At baseline, 13% of patients had CLL/SLL with 17p deletion, 18% with 11q deletion, 17% with 17p deletion/TP53 mutation, 56% with unmutated IgHV and 19% with complex karyotype. The most common reasons for initiating CLL therapy included: lymphadenopathy (65%), progressive lymphocytosis (51%), splenomegaly (30%), fatigue (24%), progressive marrow failure demonstrated by anaemia and/or thrombocytopenia (23%), and night sweats (21%). At baseline assessment for risk of TLS, 21% of patients had high tumour burden. After 3 cycles of single-agent ibrutinib lead-in therapy, 1% of patients had high tumour burden. High tumour burden was defined as any lymph node \geq 10 cm, or any lymph node \geq 5 cm and absolute lymphocyte count \geq 25 x 10 9 /L.

With a median follow-up time of 28 months, efficacy results for CAPTIVATE are shown in Table 22, and rates of MRD negativity are shown in Table 23.

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Table 22. Efficacy Results in CAPTIVATE; Fixed-Duration Cohort^a in Patients with Previously Untreated CLL

Endpoint ^a	Venetoclax + Ibrutinib		
	Without 17p deletion (N = 136)	AII (N = 159)	
Overall Response Rate, n (%)b	130 (96)	153 (96)	
95% CI (%)	(92.1, 99.0)	(93.3, 99.2)	
Complete Response Rate, (%) ^c	61	60	
95% CI (%)	(52.8, 69.2)	(52.1, 67.4)	
Median duration of CR, months (range) ^d	NE (0.03+, 24.9+)	NE (0.03+, 24.9+)	

CR = complete response; CRi = complete response with incomplete marrow recovery; nPR = nodular partial response; PR = partial response; NE = not evaluable; NA = Not available

Table 23. Minimal Residual Disease Negativity Rates in Patients with Previously Untreated CLL in CAPTIVATE; Fixed-Duration Cohort

Endpoint	Venetoclax + Ibrutinib		
	Without 17p deletion	All	
	(N = 136)	(N = 159)	
MRD Negativity Rate			
Bone marrow, n (%)	84 (62)	95 (60)	
95% CI	(53.6, 69.9)	(52.1, 67.4)	
Peripheral Blood, n (%)	104 (77)	122 (77)	
95% CI	(69.3, 83.6)	(70.2, 83.3)	
MRD Negativity Rate at 3 Mor	nths After Completion of Treatment		
Bone marrow, n (%)	74 (54.4)	83 (52.2)	
95% CI	(46.0, 62.8)	(44.4, 60.0)	
Peripheral Blood, n (%)	78 (57.4)	90 (56.6)	
95% CI	(49.0, 65.7)	(48.9, 64.3)	

CI = confidence interval

MRD was evaluated by flow cytometry of peripheral blood or bone marrow per central laboratory. The cutoff for a negative status was < 1 CLL cell per 10^4 leukocytes. All MRD results were derived from samples obtained from \geq 80% of patients.

At 3 months post-treatment in the fixed-duration cohort, 84 patients who were MRD negative in peripheral blood had matched bone marrow specimens; of these, 76 patients (90%) were MRD negative in both peripheral blood and bone marrow.

In the fixed-duration cohort, no TLS was reported in patients treated with venetoclax in combination with ibrutinib.

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^a Based on IRC assessment

^b Overall response = CR + CRi + nPR + PR

^c Includes 3 patients with a complete response with incomplete marrow recovery (CRi)

^d A '+' sign indicates a censored observation

CLL/SLL with 17p deletion/TP53 in CAPTIVATE

In patients with 17p deletion/TP53 mutation (n = 27) the overall response rate based on IRC assessment was 96.3%; complete response rate was 55.6% and the median duration of complete response was not reached (range, 4.3 to 22.6 months). The MRD negativity rate in patients with 17p deletion/TP53 mutation 3 months after completion of treatment in bone marrow and peripheral blood was 40.7% and 59.3%, respectively.

VENCLEXTA in combination with rituximab

MURANO

MURANO was a randomised (1:1), multicentre, open label phase 3 study that evaluated the efficacy and safety of VENCLEXTA in combination with rituximab versus bendamustine in combination with rituximab in patients with CLL who had received at least one line of prior therapy. Patients in the venetoclax + rituximab arm completed the 5-week ramp-up schedule (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**) and were planned to receive 400 mg VENCLEXTA daily for a maximum of 2 years in the absence of disease progression or unacceptable toxicity. Rituximab was initiated after the 5-week ramp-up at 375 mg/m² for Cycle 1 and 500 mg/m² for Cycles 2-6. Each cycle was 28 days. Patients randomised to bendamustine + rituximab received bendamustine at 70 mg/m² on Days 1 and 2 for 6 cycles and rituximab at the above described dose and schedule. Following completion of 24 months of venetoclax + rituximab regimen, patients continued to be followed for disease progression and overall survival.

A total of 389 patients were randomised; 194 to the venetoclax + rituximab arm and 195 to the bendamustine + rituximab arm. Table 24 shows the baseline demographic and disease characteristics were similar between the venetoclax + rituximab and bendamustine + rituximab arms.

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Table 24. Demographics and baseline characteristics in MURANO

Characteristic	VENCLEXTA + rituximab (N = 194)	Bendamustine + rituximab (N = 195)
Age, years; median (range)	65 (28-83)	66 (22-85)
White, %	97	97
Male, %	70	77
ECOG performance status, %		
0	57	56
1	42	43
2	1	1
Tumour burden, %		
Absolute lymphocyte count ≥25 x 10 ⁹ /L	66	69
One or more nodes ≥5 cm	46	48
Number of prior lines of therapy		
Median number (range)	1 (1 – 5)	1 (1 – 4)
1, %	57	60
2, %	29	22
≥3, %	13	18
Previous CLL regimens		
Median number (range)	1 (1-5)	1 (1-4)
Prior alkylating agents, %	95	93
Prior purine analogs, %	81	81
Prior anti-CD20 antibodies, %	76	78
Prior B-cell receptor pathway inhibitors, %	2	3
FCR, %	54	55
Prior bendumustine, %	2	3
Fludarabine refractory, %	14	15
CLL subsets %		
17p deletion	27	27
11q deletion	35	38
TP53 mutation	25	28
IgVH unmutated	68	68
Time since diagnosis, years; median (range)	6.44 (0.5 – 28.4)	7.11 (0.3 -29.5)
FCR = fludarabine, cyclophosphamide, rituximab		

The median survival follow-up at the time of analysis was 23.8 months (range: 0.0 to 37.4 months).

The primary endpoint was progression-free survival (PFS) as assessed by investigators using the IWCLL updated National Cancer Institute-sponsored Working Group (NCI-WG) guidelines (2008).

Efficacy results for MURANO are shown in Table 25.

Table 25. Efficacy results for MURANO

	INV-assessed		IRC-a	ssessed	
	VENCLEXTA + rituximab (N = 194)	Bendamustine + rituximab (N = 195)	VENCLEXTA + rituximab (N = 194)	Bendamustine + rituximab (N = 195)	
Progression-free survival					
Number of events (%)	32 (16)	114 (58)	35 (18)	106 (54)	
Disease progression	21	98	26	91	
Death events	11	16	9	15	
Median, months	Not reached	17.0	Not reached	18.1	
(95% CI)		(15.5, 21.6)		(15.8, 22.3)	
HR (95% CI)	0.17 (0.	.11, 0.25)	0.19 (0	.13, 0.28)	
p-value ^a	p < 0	0.0001	p < 0	0.0001	
12-month estimate, %	93	73	91	74	
(95% CI)	(89.1, 96.4)	(65.9, 79.1)	(87.2, 95.2)	(67.6, 80.7)	
24-month estimate, %	85	36	83	37	
(95% CI)	(79.1, 90.6)	(28.5, 44.0)	(76.6, 88.9)	(29.4, 45.4)	
Response rate					
ORR, %	93	68	92	72	
(95% CI)	(88.8, 96.4)	(60.6, 74.2)	(87.6, 95.6)	(65.5, 78.5)	
CR+CRi, (%)	27	8	8 ^b	4 b	
nPR, (%)	3	6	2	1	
PR, (%)	63	53	82	68	
Overall survival	T	T	T	1	
Number of deaths (%)	15 (8)	27 (14)	NA	NA	
HR (95% CI)		.25, 0.90)		NA	
Time to next anti-leukaem		T	T	_	
Number of events (%)	23 (12)	83 (43)	NA	NA	
Median, months	Not reached	26.4	NA	NA	
HR (95% CI)	0.19 (0.12, 0.31)			NA	
Event-free survival	T	T	T	1	
Number of events (%)	33 (17)	118 (61)	NA	NA	
Median, months	Not reached	16.4	NA	NA	
HR (95% CI)	0.17 (0.	.11, 0.25)		NA	

CI = confidence interval; CR = complete remission; CRi = complete remission with incomplete marrow recovery; HR = hazard ratio; INV = investigator; IRC = independent review committee; NA = not available; nPR = nodular partial remission; ORR = overall response rate (CR + CRi + nPR + PR); PR = partial remission.

aStratified log-rank test.

At the time of primary analysis (data cutoff date 8 May 2017), 65 patients completed the 24-month venetoclax + rituximab treatment regimen without progression and 78 patients were still receiving venetoclax (+18 months of treatment). Of the 65 patients who remained progression free at 24 months, only 2 patients progressed after treatment completion. Twelve patients had a 3-month follow-up visit and remained progression free. Of the 12 patients, 5 were also assessed at 6-month follow-up and remained progression free.

Minimal residual disease was evaluated using ASO-PCR and/or flow cytometry. The cutoff for a negative status was less than one CLL cell per 10⁴ leukocytes in the sample. MRD data were available in peripheral blood in nearly all patients (187/194 in the venetoclax + rituximab

^bThe discrepancy between IRC- and INV-assessed CR rate was primarily due to interpretation of residual adenopathy on CT scans. Eighteen patients in the venetoclax + rituximab arm and 3 patients in the bendamustine + rituximab arm had negative bone marrow and lymph nodes <2 cm.

arm versus 179/195 in the bendamustine + rituximab arm) and in a subset of patients for bone marrow (74/194 in the venetoclax + rituximab arm versus 41/195 in the bendamustine + rituximab arm). Peripheral blood MRD negativity rates, assessed at any time during the study, were observed in 84% (162/194) of patients in the venetoclax + rituximab arm versus 23% (45/195) of patients in the bendamustine + rituximab arm. Bone marrow MRD negativity rates were 27% (53/194 patients) in the venetoclax + rituximab arm versus 2% (3/195 patients) in the bendamustine + rituximab arm. At the 9-month response assessment, MRD negativity in the peripheral blood was 62% in the venetoclax + rituximab arm versus 13% in the bendamustine + rituximab arm and this rate was maintained in the venetoclax + rituximab arm for at least an additional 9 months (60% in venetoclax + rituximab versus 5% in bendamustine + rituximab), the last visit for which complete data were available prior to the clinical cutoff date.

59-month follow-up

Efficacy was assessed after a median followup of 59.2 months (data cut-off date 8 May 2020). Efficacy results for the MURANO 59-month follow-up are presented in Table 26.

Table 26. Investigator-Assessed Efficacy Results in MURANO (59-Month Follow-up)

Endpoint	VENCLEXTA + rituximab (N = 194)	Bendamustine +rituximab (N = 195)
Progression-free survival		
Number of events (%) ^a	101 (52)	167 (86)
Median, months (95% CI)	54 (48.4, 57.0)	17 (15.5, 21.7)
HR, stratified (95% CI)	0.19 (0.	15, 0.26)
Overall survival		
Number of events (%)	32 (16)	64 (33)
Median, months (95% CI)	NR	NR
HR (95% CI)	0.40 (0.26, 0.62)	
60-month estimate (95% CI)	82 (76.4, 87.8)	62 (54.8, 69.6)
Time to next anti-leukaemic treatment		
Number of events (%) ^b	89 (46)	149 (76)
Median, months (95% CI)	58 (55.1, NE)	24 (20.7, 29.5)
HR, stratified (95% CI)	0.26 (0.	20, 0.35)
MRD negativity ^c		
Rate in peripheral blood at end of treatment (%)d	83 (64)	NA ^f
3-year PFS estimate from end of treatment (95% CI) ^e	61 (47.3, 75.2)	NA ^f
3-year OS estimate from end of treatment (95% CI) ^e	95 (90.0, 100.0)	NA ^f

CI = confidence interval; MRD = minimal residual disease; NE = not evaluable; NR = not reached; OS = overall survival; PFS = progression-free survival; NA = not applicable.

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In the venetoclax + rituximab arm, 87 and 14 events were due to disease progression and death, compared with 148 and 19 events in the bendamustine + rituximab arm, respectively.

In the venetoclax + rituximab arm, 68 and 21 events were due to patients starting a new anti-leukaemic treatment and death, compared with 123 and 26 events in the bendamustine + rituximab arm, respectively.

^cMinimal residual disease was evaluated using allele-specific oligonucleotide polymerase chain reaction (ASO-PCR) and/or flow cytometry. The cut-off for a negative status was one CLL cell per 10⁴ leukocytes.

dIn patients that completed venetoclax treatment without progression (130 patients).

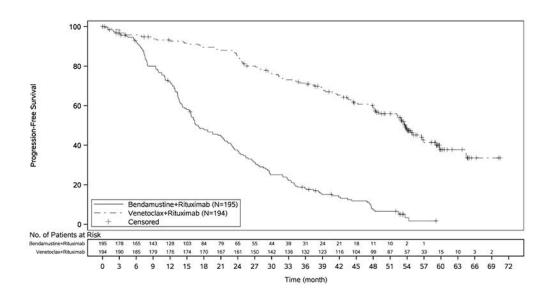
In patients that completed venetoclax treatment without progression and were MRD negative (83 patients).

No equivalent to end of treatment visit in bendamustine + rituximab arm.

In total, 130 patients in the venetoclax + rituximab arm completed 2 years of VENCLEXTA treatment without progression. For these patients, the 3-year PFS estimate post-treatment was 51% [95 % CI: 40.2, 61.9].

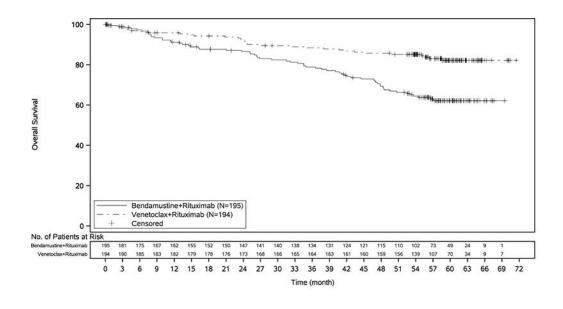
The Kaplan-Meier curve for investigator-assessed PFS is shown in Figure 4.

Figure 4. Kaplan-Meier Curve of Investigator-Assessed Progression-Free Survival (ITT Population) in MURANO (59-Month Follow-up)



The Kaplan-Meier curve for overall survival is shown in Figure 5.

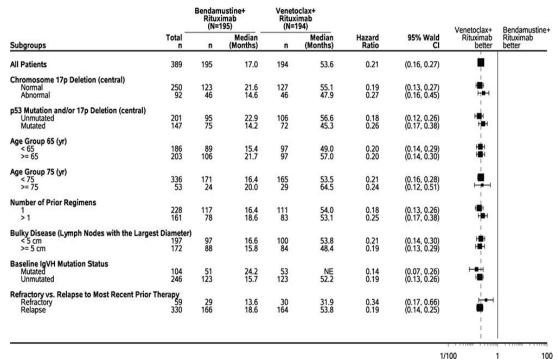
Figure 5. Kaplan-Meier Curve of Overall Survival (ITT Population) in MURANO (59-Month Follow-up)



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The observed PFS benefit of venetoclax + rituximab compared with bendamustine + rituximab was consistently observed across all subgroups of patients evaluated, including high-risk patients with deletion 17p/TP53 mutation and/or unmutated *IgVH* (Figure 6).

Figure 6. Forest Plot of Investigator-Assessed PFS in Subgroups From MURANO (59-Month Follow-up)



17p deletion status was determined based on central laboratory test results. Unstratified hazard ratio is displayed on the X-axis with logarithmic scale. NE = not evaluable.

VENCLEXTA as monotherapy

The safety and efficacy of VENCLEXTA were established in three open-label, multicentre clinical trials of patients with CLL or SLL who had received at least one prior therapy, including those with deletion of the p13 locus on chromosome 17 (17p deletion).

Study M13-982

Study M13-982 was a multicentre, single-arm open-label trial of 107 patients with previously treated CLL with 17p deletion. Table 27 summarises the baseline demographic and disease characteristics of the study population.

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Table 27. Baseline patient characteristics in Study M13-982

Characteristic	N = 107 ^a
Age, years; median (range)	67 (37-85)
White, %	97
Male, %	65
ECOG performance status, %	
0	39
1	52
2	8
Tumour burden; %	
Absolute lymphocyte count ≥25 x 10 ⁹ /L	50
One or more nodes ≥5 cm	53
Number of prior therapies; median (range)	2 (1-10)
Time since diagnosis, years; median (range) ^b	6.8 (0.1-32)
^a One patient did not harbour the 17p deletion. ^b N=106.	

Among the patients, 37% (34/91) were fludarabine refractory, 81% (30/37) had unmutated IgVH, and 24% (19/80) had 11q deletion.

In the study, patients with 17p deletion were identified using Vysis CLL FISH Probe Kit. Patients received VENCLEXTA via a weekly ramp-up schedule starting at 20 mg and titrating to 50 mg, 100 mg, 200 mg and finally 400 mg once daily. Patients continued to receive 400 mg of VENCLEXTA orally once daily until disease progression or unacceptable toxicity. The median time on treatment at the time of evaluation was 12.1 months (range: 0 to 21.5 months).

The primary efficacy endpoint was overall response rate (ORR) as assessed by an IRC using the IWCLL updated NCI-WG guidelines (2008). Efficacy results for Study M13-982 are shown in Table 28.

Table 28. Efficacy results in Study M13-982

	IRC assessment (N=107) ^a	Investigator assessment (N=107) ^a
ORR, %	79	74
(95% CI)	(70.5, 86.6)	(64.4, 81.9)
CR+CRi, %	7	16
nPR, %	3	4
PR, %	69	54
DOR, % (95% CI) 12-month estimate	84.7 (74.5, 91.0)	89.1 (79.2, 94.4)

CI = confidence interval; CR = complete remission; CRi = complete remission with incomplete marrow recovery; DOR = duration of response; IRC = independent review committee; nPR = nodular partial remission; ORR = overall response rate (CR + CRi + nPR + PR); PR = partial remission

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^aOne patient did not harbour the 17p deletion.

Based on a later data cutoff (15 June 2017), which included an additional 51 patients enrolled in a safety expansion cohort, and investigator-assessed efficacy (N=158), the median duration of response (DOR) was 36.2 months (95% CI: 27.2, NA). The median duration of progression-free survival (mPFS) was 28.2 months (95% CI: 23.4, 37.0).

Minimal residual disease was evaluated using flow cytometry in 45 of 107 patients who achieved complete remission (CR), complete remission with incomplete marrow recovery (CRi), or partial remission (PR) with limited remaining disease with VENCLEXTA treatment. The cut-off for a negative status was one CLL cell per 10⁴ leukocytes in the sample (i.e., an MRD value of <10⁻⁴ was considered MRD negative). Seventeen percent (18/107) of patients were MRD negative in the peripheral blood, including six patients who were also MRD negative in the bone marrow.

Study M12-175

Study M12-175 was a multicentre, open-label trial that enrolled patients with previously treated CLL or SLL, including those with 17p deletion. Efficacy was evaluated in 67 patients (59 with CLL, 8 with SLL) who had received a daily dose of 400 mg of VENCLEXTA following a rampup schedule. Patients continued to receive 400 mg of VENCLEXTA monotherapy orally once daily until disease progression or unacceptable toxicity. The median time on treatment at the time of evaluation was 22.1 months (range: 0.5 – 50.1 months). Table 29 summarises the baseline demographic and disease characteristics of the study population.

Table 29. Baseline patient characteristics of evaluable patients in Study M12-175

Characteristic	N=67
Age, years; median (range)	66 (42-84)
White, %	87
Male, %	78
ECOG performance status ^a , %	
0	48
1	52
2	0
Tumour burden; %	
Absolute lymphocyte count ≥25 x 10 ⁹ /L	30
One or more nodes ≥5 cm	67
Number of prior therapies; median (range)	3 (1-11)
Time since diagnosis, years; median (range)	9 (1.1-27.3)
^a Missing for two patients.	

Among the patients, 70% were fludarabine refractory, 67% (22/33) had unmutated *IgVH*, 31% (18/58) had 11q deletion, and 24% (14/58) had 17p deletion.

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Overall response rate and duration of response were evaluated by both investigators and an IRC according to the IWCLL NCI-WG criteria. Efficacy results are shown in Table 30:

Table 30. Efficacy results in Study M12-175

	IRC assessment (N=57)	Investigator assessment (N=67)
ORR, %	74	82
(95% CI)	(60.3, 84.5)	(70.8, 90.4)
CR+CRi, %	7	13
nPR, %	0	3
PR, %	67	66
DOR, % (95% CI) 12-month estimate	89 (67.5, 96.5)	92 (80.2, 96.9)

CI = confidence interval; CR = complete remission; CRi = complete remission with incomplete marrow recovery; DOR = duration of response; IRC = independent review committee; nPR = nodular partial remission; ORR = overall response rate (CR + CRi + nPR + PR); PR = partial remission.

For the 8 patients with SLL, the investigator-assessed ORR was 100%.

Study M14-032

Study M14-032 was an open label, multicentre, study that evaluated the efficacy of venetoclax in patients with CLL who had been previously treated with and progressed on or after ibrutinib (Arm A) or idelalisib (Arm B). Patients received a daily dose of 400 mg of venetoclax following the ramp-up schedule. Patients continued to receive venetoclax 400 mg once daily until disease progression or unacceptable toxicity was observed.

Efficacy was evaluated by investigators and an IRC according to IWCLL updated NCI WG guidelines (2008). Response assessments were performed at 8 weeks, 24 weeks, and every 12 weeks thereafter for the 64 patients in the main cohort, while the patients enrolled in the expansion had disease assessment at weeks 12 and 36.

A total of 127 patients were enrolled in the study, which included 64 patients in the main cohort (43 with prior ibrutinib, 21 with prior idelalisib) and 63 patients in an expansion cohort (48 with prior ibrutinib, 15 with prior idelalisib). Table 31 summarises the baseline demographic and disease characteristics of the study population.

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Table 31. Baseline patient characteristics of evaluable patients in Study M14-032

Characteristic	N=127
Age, years; median (range)	66 (28-85)
White, %	92
Male, %	70
Tumour burden, % Absolute lymphocyte count ≥25 x 10 ⁹ /L One or more nodes ≥5 cm	31 41
Number of prior therapies; median (range)	4 (1-15)
Time since diagnosis, years; median (range)	8.3 (0.3-18.5) ^a
$^{a}N = 96$	

Efficacy data are presented with data cutoff date of 26 July 2017. Investigator-assessment of disease responses to venetoclax treatment are available for all 127 subjects (64 in the main cohort and 63 in the expansion cohort). The IRC assessments of disease responses are available for 123 of the 127 subjects.

Efficacy results for 127 patients assessed by investigator and 127 patients assessed by IRC at the same time points are shown in Table 32:

Table 32. Efficacy results in Study M14-032

	IRC assessment (N=127) ^a	Investigator assessment (N=127)
ORR,%	70	63
(95% CI)	(61.3, 77.9)	(54.0, 71.4)
CR+CRi (%)	1	9
nPR (%)	0	2
PR (%)	69	52
DOR, % (95% CI)	N=89	N=80
6-month estimate	97 (90.0, 99.4)	97 (88.7, 99.3)
12-month estimate	NA	93 (83.2, 97.5)
Time to first response, median, months (range)	2.5 (1.0-8.9)	2.5 (1.6, 11.0)

aNot assessed = 4

The median duration of treatment with venetoclax for 127 patients was 14.3 months (range: 0.1 to 31.4 months).

The MRD negativity rate in peripheral blood for all 127 patients was 25.2% (32/127), including 8 patients who achieved MRD negativity in bone marrow.

CI = confidence interval; CR = complete remission; CRi = complete remission with incomplete marrow recovery; DOR = duration of response;

IRC = independent review committee; nPR = nodular partial remission;

ORR = overall response rate (CR + CRi + nPR + PR); PR = partial remission.

Acute Myeloid Leukaemia

VENCLEXTA was studied in adult patients with newly diagnosed AML who were ≥ 75 years, or had comorbidities that precluded the use of intensive induction chemotherapy based on at least one of the following criteria: baseline ECOG performance status of 2-3, severe cardiac or pulmonary comorbidity, moderate hepatic impairment, creatinine clearance <45 mL/min, or other comorbidity.

VENCLEXTA in combination with azacitidine

VIALE-A

VIALE-A was a randomised (2:1), double-blind, placebo-controlled, multicentre, phase 3 study that evaluated the efficacy and safety of VENCLEXTA in combination with azacitidine versus placebo in combination with azacitidine in patients with newly diagnosed AML who were ineligible for intensive chemotherapy.

Patients in VIALE-A completed the 3-day ramp-up schedule to a final 400 mg once-daily dose during the first 28-day cycle of treatment (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION) and received VENCLEXTA 400 mg orally once daily thereafter in subsequent cycles. Azacitidine at 75 mg/m² was administered either intravenously or subcutaneously on Days 1-7 of each 28-day cycle beginning on Cycle 1 Day 1. Placebo orally once daily was administered on Day 1-28 plus azacitidine at 75mg/m² on Day 1-7 of each 28day cycle beginning on Cycle 1 Day 1. During the ramp-up, patients received TLS prophylaxis and were hospitalised for monitoring. Once bone marrow assessment confirmed a remission, defined as less than 5% leukaemia blasts with cytopenia following Cycle 1 treatment, VENCLEXTA or placebo was interrupted up to 14 days or until ANC ≥500/microlitre and platelet count ≥50 × 10³/microlitre. For patients with resistant disease at the end of Cycle 1, a bone marrow assessment was performed after Cycle 2 or 3 and as clinically indicated. Azacitidine was resumed on the same day as VENCLEXTA or placebo following interruption (see Section 4.2 DOSE AND METHOD OF ADMINISTRATION; Dose modifications based on adverse reactions). Azacitidine dose reduction was implemented in the clinical trial for management of haematological toxicity. Patients continued to receive treatment cycles until disease progression or unacceptable toxicity.

A total of 431 patients were randomised: 286 to the venetoclax + azacitidine arm and 145 to the placebo + azacitidine arm. Baseline demographic and disease characteristics were similar between the venetoclax + azacitidine and placebo + azacitidine arms. The baseline demographic and disease characteristic are shown in Table 33.

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Table 33. Baseline demographic and disease characteristics in patients with AML in VIALE-A

Characteristic	VENCLEXTA + azacitidine (N = 286)	Placebo + azacitidine (N = 145)
Age, years; median (range)	76 (49-91)	76 (60-90)
White, %	76	75
Male, %	60	60
ECOG performance status, %		
0-1	55	56
2	40	41
3	5.6	3.4
Bone marrow blast, %		
<30%	30	28
≥30% to <50%	21	23
≥50%	49	49
Disease history, %		
De novo AML	75	76
Secondary AML	25	24
Cytogenetic risk detected ^a , %		
Intermediate	64	61
Poor	36	39
Mutation analyses detected, n/Nb (%)		
IDH1 or IDH2 ^{c,d}	61/245 (25)	28/127 (22)
IDH1°	23/245 (9.4)	11/127 (8.7)
IDH2 ^d	40/245 (16)	18/127 (14)
FLT3 ^e	29/206 (14)	22/108 (20)
NPM1 ^f	27/163 (17)	17/86 (20)
TP53 ^f	38/163 (23)	14/86 (16)

^aPer the 2016 National Comprehensive Cancer Network (NCCN) Guidelines.

Detected by MyAML® assay.

The dual primary endpoints of the study were overall survival (OS) measured from the date of randomisation to death from any cause and composite complete remission rate (complete remission + complete remission with incomplete blood count recovery; CR+CRi). The overall median follow-up at the time of analysis was approximately 20.5 months (range: <0.1 to 30.7 months).

Venetoclax + azacitidine demonstrated a 34% reduction in the risk of death compared with placebo + azacitidine (p <0.001). The efficacy results are presented in Tables 34 and 35. The Kaplan-Meier curve for OS is shown in Figure 7.

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bNumber of evaluable BMA specimens received at baseline.

^cDetected by Abbott RealTime IDH1 assay.

^dDetected by Abbott RealTime IDH2 assay.

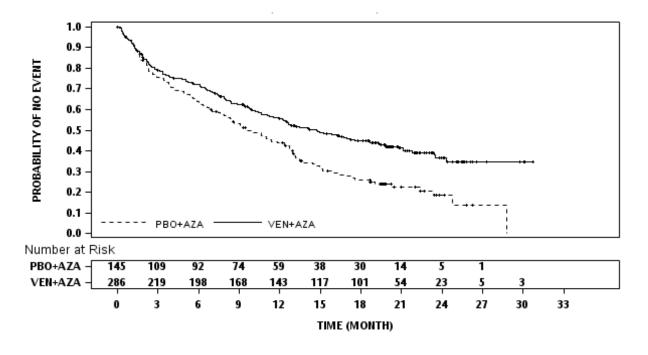
eDetected by LeukoStrat® CDx FLT3 mutation assay.

Table 34. Efficacy Results in VIALE-A

Endpoint	VENCLEXTA + azacitidine	Placebo + azacitidine
Overall survival	(N=286)	(N=145)
Number of deaths, n (%)	161 (56)	109 (75)
Median ^a survival, months	14.7	9.6
(95% CI)	(11.9, 18.7)	(7.4, 12.7)
Hazard ratio ^b (95% CI)	0.66 (0.52,	0.85)
p-value ^b	<0.00	1
CR+CRi ^c	(N=147)	(N=79)
n (%)	96 (65)	20 (25)
(95% CI)	(57, 73)	(16, 36)
p-value ^d	<0.00	<u>.</u> 1

CI = confidence interval; CR = complete remission; CRi = complete remission with incomplete blood count recovery.

Figure 7. Kaplan-Meier curve for Overall Survival in VIALE-A



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CR (complete remission) was defined as absolute neutrophil count >1,000/microlitre, platelets

>100,000/microlitre, red blood cell transfusion independence, and bone marrow with <5% blasts. Absence of circulating blasts and blasts with Auer rods; absence of extramedullary disease.

^aKaplan-Meier estimate at the second interim analysis (data cut-off date 4 January 2020).

^bHazard ratio estimate (venetoclax + azacitidine vs. placebo + azacitidine) is based on Cox-proportional hazards model stratified by cytogenetics (intermediate risk, poor risk) and age (18 to <75 years, ≥75 years) as assigned at randomisation; p-value based on log-rank test stratified by the same factors.

^cThe CRi+CRi rate is from a planned interim analysis of first 226 patients randomised with 6 months of follow-up at the first interim analysis (data cut-off date 1 October 2018).

dP-value is from Cochran-Mantel-Haenszel test stratified by cytogenetics (intermediate risk, poor risk) and age (18 to <75 years, ≥75 years).

Key secondary efficacy endpoints are presented in Table 35 below.

Table 35. Additional efficacy endpoints in VIALE-A

Endpoint	VENCLEXTA + azacitidine (N = 286)	Placebo + azacitidine (N = 145)
CR, n (%)	105 (37)	26 (18)
(95% ČI)	(31, 43)	(12, 25)
p-value ^a	<0.00	1
Median DOR ^b (months)	17.5	13.3
(95% CI)	(15.3, NR)	(8.5, 17.6)
CR+CRh, n (%)	185 (65)	33 (23)
(95% CI)	(59, 70)	(16, 31)
p-value ^a	<0.00	
Median DOR ^b (months)	17.8	13.9
(95% CI)	(15.3, NR)	(10.4, 15.7)
CR+CRi, n (%)	190 (66)	41 (28)
(95% CI)	(61, 72)	(21, 36)
Median DOR ^b (months)	17.5	13.4
(95% CI)	(13.6, NR)	(5.8, 15.5)
CR+CRh rate by initiation of	(13.0, 1414)	(5.6, 15.5)
	114 (40)	9 (6)
Cycle 2, n (%)	` ,	8 (6)
(95% CI)	(34, 46)	(2, 11)
p-value ^a	<0.00	1
CR+CRi rate by the initiation of	104 (40)	44 (0)
Cycle 2, n (%)	124 (43)	11 (8)
(95% CI)	(38, 49)	(4, 13)
p-value ^a	<0.00	<u>1</u>
OS in IDH1/IDH2 subgroup		
Number of deaths, n/N (%)	29/61 (48)	24/28 (86)
Median OSc, months	NR	6.2
(95% CI)	(12.2, NR)	(2.3, 12.7)
Hazard ratiod (95% CI)	0.34 (0.20	, 0.60)
p-value ^d	<0.000	01
Transfusion independence rate		
platelets, n (%)	196 (69)	72 (50)
(95% CI)	(63, 74)	(41, 58)
p-value ^a	<0.00	1
Transfusion independence rate		
red blood cells, n (%)	171 (60)	51 (35)
(95% CI)	(54, 66)	(27, 44)
p-value ^a	<0.00	-
CR+CRi MRD response rate ^e	10.00	
n (%)	67 (23)	11 (8)
(95% CI)	(19, 29)	(4, 13)
p-value ^a	<0.00	
Event-free survival	<u> </u>	
Number of EFS events, n (%)	191 (67)	122 (84)
	, ,	` ,
Median EFS ^c , (months)	9.8	7.0
(95% CI)	(8.4, 11.8)	(5.6, 9.5)
Hazard ratio ^f (95% CI)	0.63 (0.50	
p-value ^f	<0.00	1

CI = confidence interval; CR = complete remission; CRh = complete remission with partial haematological recovery; CRi = complete remission with incomplete blood count recovery; CR + CRi = complete remission + complete remission with incomplete blood count recovery; DOR = duration of response; IDH = isocitrate dehydrogenase; MRD = minimal/measurable residual disease. NR = not reached; OS = overall survival.

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CR (complete remission) was defined as absolute neutrophil count >1,000/microlitre, platelets >100,000/microlitre, red blood cell transfusion independence, and bone marrow with <5% blasts. Absence of circulating blasts and blasts with Auer rods; absence of extramedullary disease.

CRh (complete remission with partial haematological recovery) was defined as <5% of blasts in the bone marrow, no evidence of disease, and partial recovery of peripheral blood counts (platelets >50,000/microlitre and ANC >500/microlitre).

Transfusion independence is defined as a period of at least 56 consecutive days (≥56 days) with no transfusion after the first dose of study drug and on or before the last dose of the study drug +30 days, or before relapse or disease progression or before the initiation of post-treatment therapy whichever is earlier. aP-value is from Cochran-Mantel-Haenszel test stratified by age (18 to <75 years, ≥75 years) and cytogenetic (intermediate risk, poor risk).

^bDOR (duration of response) was defined as time from first response of CR for DOR of CR, from first response of CR or CRi for DOR of CR+CRi, or from first response of CR or CRh for DOR of CR+CRh, to the first date of confirmed morphologic relapse, confirmed progressive disease or death due to disease progression, whichever occurred earlier. Median DOR from Kaplan-Meier estimate.

^cKaplan-Meier estimate.

^dHazard ratio estimate (venetoclax + azacitidine vs placebo + azacitidine) is based on unstratified Coxproportional hazards model. P-value from unstratified log-rank test.

^eCR+CRi MRD response rate is defined as the % of patients achieving a CR or CRi and demonstrated an MRD response of <10⁻³ blasts in bone marrow as determined by a standardised, central multicolour flow cytometry assay.

¹Hazard ratio estimate (venetoclax + azacitidine vs placebo + azacitidine) is based on Cox-proportional hazards model stratified by age (18 to <75 years, ≥75 years) and cytogenetics (intermediate risk, poor risk) as assigned at randomisation; p-value based on log-rank test stratified by the same factors.

Of patients with *FLT3* mutations, the CR+CRh rates were 66% (19/29; [95% CI: 46, 82]) and 18% (4/22; [95% CI: 5, 40]) in the venetoclax + azacitidine and placebo + azacitidine arms, respectively (Fisher's exact test p=0.001). Of patients with *FLT3* mutations, the CR+CRi rates were 72% (21/29; [95% CI: 53, 87]) and 36% (8/22; [95% CI: 17, 59]) in the venetoclax + azacitidine and placebo + azacitidine arms, respectively (Fisher's exact test p=0.021).

Of patients with *IDH1/IDH2* mutations, the CR+CRh rates were 72% (44/61; [95% CI: 59, 83]) and 7% (2/28; [95% CI: 1, 24]) in the venetoclax + azacitidine and placebo + azacitidine arms, respectively (Fisher's exact test p<0.001). Of patients with *IDH1/IDH2* mutations, the CR+CRi rates were 75% (46/61; [95% CI: 63, 86]) and 11% (3/28; [95% CI: 2, 28]) in the venetoclax + azacitidine and placebo + azacitidine arms, respectively (Fisher's exact test p<0.001).

Of the patients who were red blood cell transfusion dependent at baseline and treated with venetoclax + azacitidine, 49% (71/144) became transfusion independent. Of the patients who were platelet transfusion dependent at baseline and treated with venetoclax + azacitidine, 50% (34/68) became transfusion independent.

The median time to first response of CR or CRi was 1.3 months (range: 0.6 to 9.9 months) with venetoclax + azacitidine treatment. The median time to best response of CR or CRi was 2.3 months (range: 0.6 to 24.5 months).

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Study M14-358

Study M14-358 was a non-randomised phase 1b study of VENCLEXTA in combination with azacitidine (N=84) in patients with newly diagnosed AML who were ineligible for intensive chemotherapy. Patients received VENCLEXTA via ramp-up to a final 400 mg once daily dose. The administration of azacitidine in M14-358 was similar to that of VIALE-A randomised study.

The median follow-up was 28.9 months (range: 0.4 to 42.0 months) for VENCLEXTA in combination with azacitidine.

The median age of patients treated with venetoclax + azacitidine was 75 years (range: 61-90 years), 91% were white, 61% male, and 69% had ECOG score 0 or 1. The CR+CRi rate was 71% (95% CI: 61, 81) for patients treated with VENCLEXTA in combination with azacitidine. Median overall survival for patients treated with VENCLEXTA in combination with azacitidine was 16.4 months (95% CI: 11.3, 24.5).

VENCLEXTA in combination with low-dose cytarabine

VIALE-C

VIALE-C was a randomised (2:1), double-blind, placebo-controlled, multicentre, phase 3 study (M16-043) that evaluated the efficacy and safety of VENCLEXTA in combination with low-dose cytarabine versus placebo in combination with low-dose cytarabine in patients with newly diagnosed AML who were ineligible for intensive chemotherapy.

Patients in VIALE-C completed the 4-day ramp-up schedule to a final 600 mg once daily dose during the first 28-day cycle of treatment (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**) and received VENCLEXTA 600 mg orally once daily thereafter in subsequent cycles. Cytarabine 20 mg/m² was administered subcutaneously (SC) once daily on Days 1-10 of each 28-day cycle beginning on Cycle 1 Day 1. Once daily oral placebo was administered on Days 1-28 plus cytarabine 20 mg/m² subcutaneously once daily on Days 1-10. During the ramp-up, patients received TLS prophylaxis and were hospitalised for monitoring. Once bone marrow assessment confirmed a remission, as defined as less than 5% leukaemia blasts with cytopenia following Cycle 1 treatment, VENCLEXTA or placebo was interrupted up to 14 days or until ANC ≥500/microlitre and platelet count ≥25 × 10³/microlitre. For patients with resistant disease at the end of Cycle 1, a bone marrow assessment was performed after Cycle 2 or 3 and as clinically indicated. Patients continued to receive treatment cycles until disease progression or unacceptable toxicity. Dose reduction for low-dose cytarabine was not implemented in the clinical trial.

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Baseline demographic and disease characteristics were similar between the venetoclax + low-dose cytarabine and placebo + low-dose cytarabine arms. The baseline demographic and disease characteristic are shown in Table 36.

Table 36. Baseline demographic and disease characteristics in patients with AML in VIALE-C

Characteristic	VENCLEXTA + low-dose cytarabine (N = 143)	Placebo + low-dose cytarabine (N = 68)
Age, years; median (range)	76 (36-93)	76 (41-88)
White, %	71	69
Male, %	55	57
ECOG performance status, % 0-1 2 3	52 44 4	50 37 13
Bone marrow blast, % <30% ≥30% to <50% ≥50%	29 25 45	26 32 41
Disease history, % De novo AML Secondary AML	59 41	66 34
Cytogenetic risk detecteda, %	·	
Intermediate	63	63
Poor	33	29
Mutation analyses detected, n/N ^{b,c}	(%)	
IDH1 or IDH2	21/112 (19)	12/52 (23)
IDH1	11/112 (10)	5/52 (10)
IDH2	12/112 (11)	8/52 (15)
FLT3	20/112 (18)	9/52 (17)
NPM1	18/112 (16)	7/52 (13)
TP53	22/112 (20)	9/52 (17)

^aPer the 2016 National Comprehensive Cancer Network (NCCN) Guidelines.

At the time of the primary analysis for OS, patients had a median follow-up of 12 months (range: 0.1 to 17.6 months). The median OS in the venetoclax + low-dose cytarabine arm was 7.2 months (95% CI: 5.6, 10.1) and in the placebo with low-dose cytarabine arm was 4.1 months (95% CI: 3.1, 8.8). The hazard ratio was 0.75 (95% CI: 0.52, 1.07; p=0.114). The Kaplan-Meier curve for OS is shown in Figure 8.

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^bNumber of evaluable BMA specimens received at baseline.

^cDetected by MyAML® assay.

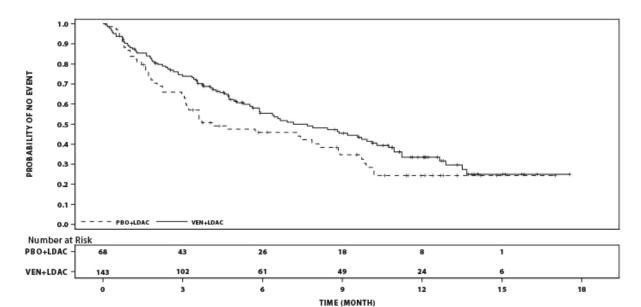
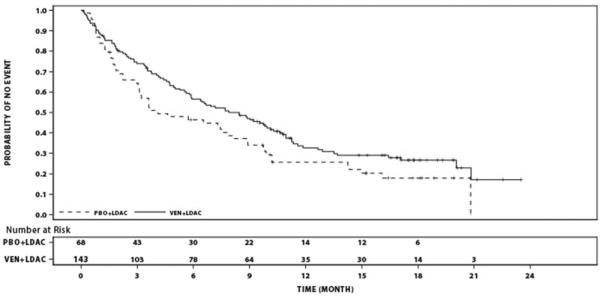


Figure 8. Kaplan-Meier curves of overall survival (primary analysis) in VIALE-C

In an additional analysis for OS at which time patients had a median follow-up of 17.5 months (range: 0.1 to 23.5 months). The median OS in the venetoclax + low-dose cytarabine arm was 8.4 months (95% CI: 5.9, 10.1) and in the placebo + low-dose cytarabine arm was 4.1 months (95% CI: 3.1, 8.1). The hazard ratio was 0.70 (95% CI: 0.50, 0.99). The Kaplan-Meier curve for OS with 6 additional months of follow up is shown in Figure 9.

Figure 9. Kaplan-Meier curves of overall survival (6-month follow-up analysis) in VIALE-C



Efficacy results for secondary endpoints from the primary analysis are shown in Table 37.

Table 37. Efficacy results for secondary endpoints from the primary analysis of VIALE-C

Endpoint	VENCLEXTA + low-dose cytarabine (N = 143)	Placebo + low-dose cytarabine (N = 68)
CR, n (%)	39 (27)	5 (7)
(95% CI)	(20, 35)	(2, 16)
Median DOR ^a (months)	11.1	8.3
(95% CI)	(5.9, NR)	(3.1, 8.3)
CR+CRi, n (%)	68 (48)	9 (13)
(95% CI)	(39, 56)	(6, 24)
Median DORa (months)	10.8	6.2
(95% CI)	(5.9, NR)	(1.1, NR)
CR+CRh, n (%)	67 (47)	10 (15)
(95% CI)	(39, 55)	(7, 25)
Median DOR ^a (months)	11.1	6.2
(95% CI)	(5.5, NR)	(1.1, NR)
Transfusion Independence rate ^b		
Platelet, n (%)	68 (48)	22 (32)
(95% CI)	(39, 56)	(22, 45)
Red blood cell, n (%)	58 (41)	12 (18)
(95% CI)	(32, 49)	(10, 29)

CI = confidence interval; CR+CRi = complete remission + complete remission with incomplete blood count recovery; CR+CRh = complete remission + complete remission with partial hematological recovery; DOR = duration of response; NR = not reached.

The CR+CRi rate by initiation of Cycle 2 for venetoclax + low-dose cytarabine was 34% (95% CI: 27, 43) and for placebo + low-dose cytarabine was 3% (95% CI: 0.4, 10). The median time to first response of CR+CRi was 1.1 months (range: 0.8 to 4.7 months) with venetoclax + low-dose cytarabine treatment. The median time to best response of CR+CRi was 1.2 months (range: 0.8 to 5.9 months).

Minimal residual disease response was defined as less than one AML cell per 10³ leukocytes in the bone marrow. For the patients who had MRD assessment (113 patients in venetoclax + low dose cytarabine arm and 44 in placebo + low dose cytarabine arm), the median MRD value (%) was lower in the venetoclax arm when compared to the placebo arm (0.42 and 7.45, respectively). A higher number of patients had achieved CR + CRi and MRD response on venetoclax arm compared to placebo arm: 8 patients (6%) (95% CI: 2, 11) vs 1 patient (1%) (95% CI: 0, 8), respectively.

The median event-free survival for venetoclax + low-dose cytarabine was 4.7 months (95% CI, 3.7, 6.4) compared with 2.0 months (95% CI, 1.6, 3.1) for placebo + low-dose cytarabine with HR (95% CI) of 0.58 (0.42, 0.82).

^aDOR (duration of response) was defined as time from first response of CR for DOR of CR, or from first response of CR or CRi for DOR of CR+CRi, or from first response of CR or CRh for DOR of CR+CRh, to the first date of confirmed morphologic relapse, or death due to disease progression, whichever occurred earlier. Median DOR from Kaplan-Meier estimate.

bTransfusion independence was defined as a period of at least 56 consecutive days (≥56 days) with no transfusion after the first dose of study drug and on or before the last dose of the study drug +30 days or before relapse or disease progression or before the initiation of post-treatment therapy whichever is earlier.

Study M14-387

Study M14-387 was a non-randomised phase 1/2 study of VENCLEXTA in combination with low-dose cytarabine (N=82) in patients with newly diagnosed AML who were ineligible for intensive chemotherapy. Patients received VENCLEXTA via ramp-up to a final 600 mg oncedaily dose. The administration of low-dose cytarabine in M14-387 was similar to that of VIALE-C randomised study.

The median follow-up was 41.7 months (range: 0.3 to 54.0 months) for VENCLEXTA in combination with low-dose cytarabine.

The median age of patients treated with venetoclax + low-dose cytarabine was 74 years (range: 63-90 years), 95% were white, 65% male, and 71% had ECOG score 0 or 1. The CR+CRi rate was 54% (95% CI: 42, 65) for patients treated with VENCLEXTA in combination with low-dose cytarabine. Median overall survival for patients treated with VENCLEXTA in combination with low-dose cytarabine was 9.7 months (95% CI: 5.7, 14.0).

5.2 Pharmacokinetic properties

Absorption

Following multiple oral administrations, the maximum plasma concentration of venetoclax was reached 5 to 8 hours after dosing. Venetoclax steady state AUC increased proportionally over the dose range of 150-800 mg. Under low-fat meal conditions, venetoclax mean (\pm standard deviation) steady state C_{max} was 2.1 \pm 1.1 micrograms/mL and AUC_{0-24h} was 32.8 \pm 16.9 micrograms+h/mL at the 400 mg once daily dose, and 2.7 \pm 1.6 micrograms/mL and 45.6 \pm 30.6 micrograms+h/mL, respectively, at 600 mg/day.

Administration with a low-fat meal increased venetoclax exposure by approximately 3.4-fold and administration with a high-fat meal increased venetoclax exposure by 5.1- to 5.3-fold compared with fasting conditions. Venetoclax should be administered with a meal (see **Section 4.2 DOSE AND METHOD OF ADMINISTRATION**).

Distribution

Venetoclax is highly bound to human plasma protein with the unbound fraction in plasma <0.01 across a concentration range of 1-30 micromoles (0.87-26 micrograms/mL). The mean blood-to-plasma ratio is 0.57.

The population estimate for apparent volume of distribution (Vd_{ss}/F) of venetoclax ranges from 256-321 L in patients.

Metabolism

In vitro studies demonstrated that venetoclax is predominantly metabolised by CYP3A4.

M27 was identified as a major metabolite in plasma with an inhibitory activity against BCL-2 that is at least 58-fold lower than venetoclax *in vitro*.

In vitro studies

In vitro studies indicated that venetoclax is not an inhibitor of CYP1A2, CYP2B6, CYP2C19, CYP2D6 or CYP3A4 and not an inducer of CYP1A2, 2B6 or 3A4 at clinically relevant concentrations. Venetoclax is a weak inhibitor of UGT1A1, CYP2C8 and CYP2C9 *in vitro*, but it is not predicted to cause clinically relevant inhibition of these enzymes due to high plasma protein binding. Venetoclax is not an inhibitor of UGT1A4, UGT1A6, UGT1A9 and UGT2B7.

Venetoclax is a P-gp and BCRP substrate as well as a P-gp and BCRP inhibitor and weak OATP1B1 inhibitor *in vitro*. Venetoclax is not expected to inhibit OATP1B3, OCT1, OCT2, OAT1, OAT3, MATE1 or MATE2K at clinically relevant concentrations.

Elimination

The population estimate for the terminal elimination half-life of venetoclax is approximately 26 hours.

After a single oral administration of 200 mg radiolabeled [14C]-venetoclax to healthy subjects, >99.9% of the dose was recovered in faeces and <0.1% of the dose was excreted in urine within 9 days. Unchanged venetoclax accounted for 20.8% of the administered radioactive dose excreted in faeces.

The pharmacokinetics of venetoclax does not change over time.

Special populations

Age, race, sex and weight

Based on population pharmacokinetic analyses, age, race, sex and weight do not have an effect on venetoclax clearance.

Paediatric population (<18 years)

The pharmacokinetics of VENCLEXTA has not been evaluated in patients <18 years of age (see Section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE: Paediatric use).

Renal impairment

Based on a population pharmacokinetic analysis that included 321 subjects with mild renal impairment (CrCl ≥60 and <90 mL/min), 219 subjects with moderate renal impairment (CrCl ≥30 and <60 mL/min), 6 subjects with severe renal impairment (CrCl ≥15 and <30 mL/min) and 224 subjects with normal renal function (CrCl ≥90 mL/min), venetoclax exposures in subjects with mild, moderate or severe renal impairment are similar to those with normal renal function. The pharmacokinetics of venetoclax has not been studied in subjects with CrCl <15 mL/min or subjects on dialysis (see Section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE: Renal impairment).

Hepatic impairment

Based on a population pharmacokinetic analysis that included 69 subjects with mild hepatic impairment, 7 subjects with moderate hepatic impairment and 429 subjects with normal hepatic function, venetoclax exposures are similar in subjects with mild and moderate hepatic impairment and normal hepatic function. The National Cancer Institute (NCI) Organ Dysfunction Working Group criteria for hepatic impairment were used in the analysis. Mild hepatic impairment was defined as normal total bilirubin and aspartate transaminase (AST) > upper limit of normal (ULN) or total bilirubin >1.0 to 1.5 times ULN, moderate hepatic impairment as total bilirubin >1.5 to 3.0 times ULN, and severe hepatic impairment as total bilirubin >3.0 ULN.

In a dedicated hepatic impairment study, venetoclax C_{max} and AUC in subjects with mild (Child-Pugh A) or moderate (Child-Pugh B) hepatic impairment were similar to subjects with normal hepatic function. In subjects with severe (Child-Pugh C) hepatic impairment, the mean venetoclax C_{max} was similar to subjects with normal hepatic function but venetoclax AUC was 2.3- to 2.7 fold higher than subjects with normal hepatic function. (see **Section 4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE: Hepatic impairment**).

5.3 Preclinical safety data

Animal pharmacology and/or toxicology

Toxicities observed in animal studies with venetoclax included dose-dependent reductions in lymphocytes and red blood cell mass. After cessation of dosing with venetoclax, red blood cell effects were reversible, whereas partial reversibility of lymphocytes was observed at the end of an 18-week recovery period. Both B- and T- cells were affected, but the most significant decreases occurred with B-cells.

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Venetoclax also caused single-cell necrosis in various tissues, including the gallbladder and exocrine pancreas, with no evidence of disruption of tissue integrity or organ dysfunction; these findings were minimal to mild in magnitude. Following a 4-week dosing period and subsequent 4-week recovery period, minimal single-cell necrosis was still present in some tissues and reversibility has not been assessed following longer periods of dosing or recovery.

After approximately 3 months of daily dosing in dogs, venetoclax caused progressive white discoloration of the hair coat, due to loss of melanin pigment in the hair. No changes in the quality of the hair coat or skin were observed, nor in other pigmented tissues examined (e.g., the iris and the ocular fundus of the eye). Reversibility of the hair coat changes has not been assessed in dogs.

The M27 metabolite orally administered to mice had effects similar to those with venetoclax (decreased lymphocytes and red blood cell mass) but of lesser magnitude, consistent with its low pharmacologic activity *in vitro*.

Genotoxicity

Venetoclax was not mutagenic in an *in vitro* bacterial mutagenicity (Ames) assay, did not induce numerical or structural aberrations in an *in vitro* chromosome aberration assay using human peripheral blood lymphocytes, and was not clastogenic in an *in vivo* mouse bone marrow micronucleus assay at a single oral dose up to 835 mg/kg (~5 times the clinical C_{max} at the maximum recommended dose of 600 mg/day). The M27 metabolite was negative for genotoxic activity in *in vitro* Ames and chromosome aberration assays.

Carcinogenicity

Venetoclax and the M27 major human metabolite were not carcinogenic in a 6-month study in transgenic (Tg.rasH2) mice at oral doses up to 400 mg/kg/day of venetoclax and 250 mg/kg/day of M27. Exposure margins (based on AUC), relative to patients at a recommended clinical dose of 400 mg/day, were approximately 2-fold for venetoclax and 5.8-fold for M27.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

VENCLEXTA 10 mg film-coated tablets contain the following inactive ingredients: copovidone, colloidal anhydrous silica, polysorbate 80, sodium stearylfumarate, calcium hydrogen phosphate, iron oxide yellow, polyvinyl alcohol, macrogol 3350, purified talc and titanium dioxide.

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VENCLEXTA 50 mg film-coated tablets contain the following inactive ingredients: copovidone, colloidal anhydrous silica, polysorbate 80, sodium stearylfumarate, calcium hydrogen phosphate, iron oxide yellow, iron oxide red, iron oxide black, polyvinyl alcohol, purified talc, macrogol 3350 and titanium dioxide.

VENCLEXTA 100 mg film-coated tablets contain the following inactive ingredients: copovidone, colloidal anhydrous silica, polysorbate 80, sodium stearylfumarate, calcium hydrogen phosphate, iron oxide yellow, polyvinyl alcohol, macrogol 3350, purified talc and titanium dioxide.

6.2 Incompatibilities

Incompatibilities were either not assessed or not identified as part of the registration of this medicine.

6.3 Shelf life

In Australia, information on the shelf life can be found on the public summary of the Australian Register of Therapeutic Goods (ARTG). The expiry date can be found on the packaging.

6.4 Special precautions for storage

Store below 30°C.

6.5 Nature and contents of container

VENCLEXTA is dispensed as follows:

Packaging presentation	Number of tablets	
Starting Pack for CLL/SLL	Each Starting Pack contains four weekly wallets: Week 1 (14 x 10 mg tablets) Week 2 (7 x 50 mg tablets) Week 3 (7 x 100 mg tablets) Week 4 (14 x 100 mg tablets) Each wallet contains one blister pack.	
10 mg Blister pack	2, 14 x 10 mg tablets	
50 mg Blister pack	1, 7 x 50 mg tablets	
100 mg Blister pack	1, 7, 14, 112 x 100 mg tablets	
100 mg Bottle	120 x 100 mg tablets	

Not all presentations may be marketed.

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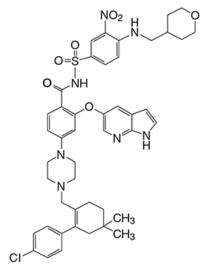
6.6 Special precautions for disposal

In Australia, any unused medicine or waste material should be disposed of by taking to your local pharmacy.

6.7 Physicochemical properties

Venetoclax is described chemically as 4-(4-{[2-(4-chlorophenyl)-4,4-dimethylcyclohex-1-en-1-yl]methyl}piperazin-1-yl)-*N*-({3-nitro-4-[(tetrahydro-2*H*-pyran-4-ylmethyl)amino]phenyl}sulfonyl)-2-(1*H*-pyrrolo[2,3-*b*]pyridin-5-yloxy)benzamide.

Chemical structure



Empirical formula: C₄₅H₅₀ClN₇O₇S

Molecular weight: 868.44

CAS Number: 1257044-40-8

7. MEDICINE SCHEDULE (POISONS STANDARD)

Schedule 4 – Prescription Only Medicine

8. SPONSOR

AbbVie Pty Ltd

241 O'Riordan Street

Mascot NSW 2020

Australia

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9. DATE OF FIRST APPROVAL

05 January 2017

10. DATE OF REVISION

7 March 2025

Summary table of changes

Section changed	Summary of new information
4.1	Addition of new indication - venetoclax in combination with ibrutinib therapy in adult patients with previously untreated CLL/SLL.
4.2	New dose regimen for venetoclax in combination with ibrutinib.
4.8	Addition of adverse events from GLOW (Study CLL3011) and CAPTIVATE (PCYC 1142-CA).
5.1	Addition of efficacy data from GLOW (Study CLL3011) and CAPTIVATE (PCYC 1142-CA).

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