

POLIVY®

Polatuzumab vedotin

1. NAME OF THE MEDICINAL PRODUCT

Polivy

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Polivy 30 mg powder for concentrate for solution for infusion

Each vial of powder for concentrate for solution for infusion contains 30 mg of polatuzumab vedotin.

After reconstitution, each mL contains 20 mg of polatuzumab vedotin.

Polivy 140 mg powder for concentrate for solution for infusion

Each vial of powder for concentrate for solution for infusion contains 140 mg of polatuzumab vedotin.

After reconstitution, each mL contains 20 mg of polatuzumab vedotin.

Polatuzumab vedotin is an antibody-drug conjugate composed of the anti-mitotic agent monomethyl auristatin E (MMAE) covalently conjugated to a CD79b-directed monoclonal antibody (recombinant humanized immunoglobulin G1 [IgG1], produced in Chinese Hamster Ovary cells by recombinant DNA technology).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Powder for concentrate for solution for infusion (powder for concentrate).

White to greyish-white lyophilized cake.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Polivy in combination with rituximab, cyclophosphamide, doxorubicin, and prednisone (R-CHP) is indicated for the treatment of adult patients with previously untreated diffuse large B-cell lymphoma (DLBCL).

Polivy in combination with bendamustine and rituximab is indicated for the treatment of adult patients with relapsed/refractory diffuse large B-cell lymphoma (DLBCL) who are not candidates for haematopoietic stem cell transplant.

4.2 Posology and method of administration

Polivy must only be administered under the supervision of a healthcare professional experienced in the diagnosis and treatment of cancer patients.

Posology

Diffuse large B-cell lymphoma

Previously untreated patients

The recommended dose of Polivy is 1.8 mg/kg, given as an intravenous infusion every 21 days in combination with rituximab, cyclophosphamide, doxorubicin, and prednisone (R-CHP) for 6 cycles. Polivy, rituximab, cyclophosphamide and doxorubicin can be administered in any order on Day 1 after the administration of prednisone. Prednisone is administered on Days 1-5 of each cycle. Cycles 7 and 8 consist of rituximab as monotherapy.

Refer to the summary of product characteristics (SmPC) of chemotherapy agents given in combination with Polivy for patients with previously untreated DLBCL.

Relapsed or refractory patients

The recommended dose of Polivy is 1.8 mg/kg, given as an intravenous infusion every 21 days in combination with bendamustine and rituximab for 6 cycles. Polivy, bendamustine and rituximab can be administered in any order on Day 1 of each cycle. When administered with Polivy, the recommended dose of bendamustine is 90 mg/m²/day on Day 1 and Day 2 of each cycle and the recommended dose of rituximab is 375 mg/m² on Day 1 of each cycle. Due to limited clinical experience in patients treated with 1.8 mg/kg Polivy at a total dose >240 mg, it is recommended not to exceed the dose 240 mg/cycle.

Previously untreated and relapsed or refractory patients

If not already premedicated, premedication with an antihistamine and anti-pyretic should be administered to patients prior to Polivy.

Delayed or missed doses

If a planned dose of Polivy is missed, it should be administered as soon as possible and the schedule of administration should be adjusted to maintain a 21-day interval between doses.

Dose modifications

The infusion rate of Polivy should be slowed or interrupted if the patient develops an infusion-related reaction. Polivy should be discontinued immediately and permanently if the patient experiences a life-threatening reaction.

There are different potential dose modifications for Polivy in patients with previously untreated DLBCL.

For dose modifications to manage peripheral neuropathy (section 4.4) see *Table 1* below.

Table 1 Polivy dose modifications for peripheral neuropathy (PN)

Indication	Severity of PN on Day 1 of any cycle	Dose modification
Previously untreated DLBCL	Grade 2 ^a	<p>Sensory neuropathy:</p> <ul style="list-style-type: none"> • Reduce Polivy to 1.4 mg/kg. • If Grade 2 persists or recurs at Day 1 of a future cycle, reduce Polivy to 1.0 mg/kg. • If already at 1.0 mg/kg and Grade 2 occurs at Day 1 of a future cycle, discontinue Polivy. <p>Motor neuropathy:</p> <ul style="list-style-type: none"> • Withhold Polivy dosing until improvement to Grade ≤ 1. • Restart Polivy at the next cycle at 1.4 mg/kg. • If already at 1.4 mg/kg and Grade 2 occurs at Day 1 of a future cycle, withhold Polivy dosing until improvement to Grade ≤ 1. Restart Polivy at 1.0 mg/kg. • If already at 1.0 mg/kg and Grade 2 occurs at Day 1 of a future cycle, discontinue Polivy. <p>If concurrent sensory and motor neuropathy, follow the most severe restriction recommendation above.</p>
	Grade 3 ^a	<p>Sensory neuropathy:</p> <ul style="list-style-type: none"> • Withhold Polivy dosing until improvement to Grade ≤ 2. • Reduce Polivy to 1.4 mg/kg. • If already at 1.4 mg/kg, reduce Polivy to 1.0 mg/kg. If already at 1.0 mg/kg, discontinue Polivy. <p>Motor neuropathy:</p> <ul style="list-style-type: none"> • Withhold Polivy dosing until improvement to Grade ≤ 1. • Restart Polivy at the next cycle at 1.4 mg/kg. • If already at 1.4 mg/kg and Grade 2–3 occurs, withhold Polivy dosing until improvement to Grade ≤ 1. Restart Polivy at 1.0 mg/kg. • If already at 1.0 mg/kg and Grade 2–3 occurs, discontinue Polivy. <p>If concurrent sensory and motor neuropathy, follow the most severe restriction recommendation above.</p>
	Grade 4	Discontinue Polivy.
R/R DLBCL	Grade 2–3	<p>Withhold Polivy dosing until improvement to \leq Grade 1.</p> <p>If recovered to Grade ≤ 1 on or before Day 14, restart Polivy at a permanently reduced dose of 1.4 mg/kg.</p> <p>If a prior dose reduction to 1.4 mg/kg has occurred, discontinue Polivy.</p> <p>If not recovered to Grade ≤ 1 on or before Day 14, discontinue Polivy.</p>
	Grade 4	Discontinue Polivy.

^a R-CHP may continue to be administered.

For dose modifications to manage myelosuppression (section 4.4) see Table 2 below.

Table 2 Polivy, chemotherapy and rituximab dose modifications to manage myelosuppression

Indication	Severity of myelosuppression on Day 1 of any cycle	Dose modification
Previously untreated DLBCL	Grade 3–4 Neutropenia	Withhold all treatment until ANC* recovers to > 1000/ μ L. If ANC recovers to > 1000/ μ L on or before Day 7, resume all treatment without any dose reductions. If ANC recovers to > 1000/ μ L after Day 7: <ul style="list-style-type: none"> • resume all treatment; consider a dose reduction of cyclophosphamide and/or doxorubicin by 25-50%. • if cyclophosphamide and/or doxorubicin are already reduced by 25%, consider reducing one or both agents to 50%.
	Grade 3–4 Thrombocytopenia	Withhold all treatment until platelets recover to > 75,000/ μ L. If platelets recover to > 75,000/ μ L on or before Day 7, resume all treatment without any dose reductions. If platelets recover to > 75,000/ μ L after Day 7: <ul style="list-style-type: none"> • resume all treatment; consider a dose reduction of cyclophosphamide and/or doxorubicin by 25-50%. • if cyclophosphamide and/or doxorubicin are already reduced by 25%, consider reducing one or both agents to 50%.
R/R DLBCL	Grade 3–4 Neutropenia ¹	Withhold all treatment until ANC recovers to > 1000/ μ L. If ANC recovers to > 1000/ μ L on or before Day 7, resume all treatment without any additional dose reductions. If ANC recovers to > 1000/ μ L after Day 7: <ul style="list-style-type: none"> • restart all treatment with a dose reduction of bendamustine from 90 mg/m² to 70 mg/m² or 70 mg/m² to 50 mg/m². • if a bendamustine dose reduction to 50 mg/m² has already occurred, discontinue all treatment.
	Grade 3–4 Thrombocytopenia ¹	Withhold all treatment until platelets recover to > 75,000/ μ L. If platelets recover to > 75,000/ μ L on or before Day 7, resume all treatment without any dose reductions. If platelets recover to > 75,000/ μ L after Day 7: <ul style="list-style-type: none"> • restart all treatment with a dose reduction of bendamustine from 90 mg/m² to 70 mg/m² or 70 mg/m² to 50 mg/m². • if a bendamustine dose reduction to 50 mg/m² has already occurred, discontinue all treatment.

¹If primary cause is due to lymphoma, the dose of bendamustine may not need to be reduced.

*ANC: absolute neutrophil count

For dose modifications to manage Infusion-related reactions (section 4.4) see *Table 3* below.

Table 3 Polivy dose modifications for Infusion-related reactions (IRRs)

Indication	Severity of IRR on Day 1 of any cycle	Dose modification
Previously untreated DLBCL and R/R DLBCL	Grade 1–3 IRR	<p>Interrupt Polivy infusion and give supportive treatment.</p> <p>For the first instance of Grade 3 wheezing, bronchospasm, or generalized urticaria, permanently discontinue Polivy.</p> <p>For recurrent Grade 2 wheezing or urticaria, or for recurrence of any Grade 3 symptoms, permanently discontinue Polivy.</p> <p>Otherwise, upon complete resolution of symptoms, infusion may be resumed at 50% of the rate achieved prior to interruption. In the absence of infusion-related symptoms, the rate of infusion may be escalated in increments of 50 mg/hour every 30 minutes.</p> <p>For the next cycle, infuse Polivy over 90 minutes. If no infusion-related reaction occurs, subsequent infusions may be administered over 30 minutes. Administer premedication for all cycles.</p>
	Grade 4 IRR	<p>Stop Polivy infusion immediately.</p> <p>Give supportive treatment.</p> <p>Permanently discontinue Polivy.</p>

Special populations

Elderly

No dose adjustment of Polivy is required in patients ≥ 65 years of age (*see section 5.2*).

Renal impairment

No dose adjustment of Polivy is required in patients with creatinine clearance (CrCL) ≥ 30 mL/min. A recommended dose has not been determined for patients with CrCL < 30 mL/min due to limited data.

Hepatic impairment

The administration of Polivy in patients with moderate or severe hepatic impairment (bilirubin greater than $1.5 \times$ upper limit of normal [ULN]) should be avoided.

No adjustment in the starting dose is required when administering Polivy to patients with mild hepatic impairment (bilirubin greater than ULN to less than or equal to $1.5 \times$ ULN or aspartate transaminase [AST] greater than ULN).

Per studied population in mild hepatic impairment (defined as AST or ALT > 1.0 to $2.5 \times$ ULN or total bilirubin > 1.0 to $1.5 \times$ ULN), there was a not more than 40% increase in unconjugated MMAE exposure, which was not deemed clinically significant.

Paediatric population

The safety and efficacy in children and adolescents less than 18 years have not been established. No data are available.

Method of administration

Polivy is for intravenous use.

The initial dose of Polivy should be administered as a 90-minute intravenous infusion. Patients should be monitored for IRRs/hypersensitivity reactions during the infusion and for at least 90 minutes following completion of the initial dose.

If the prior infusion was well tolerated, the subsequent dose of Polivy may be administered as a 30-minute infusion and patients should be monitored during the infusion and for at least 30 minutes after completion of the infusion.

Polivy must be reconstituted and diluted using aseptic technique under the supervision of a healthcare professional. It should be administered as an intravenous infusion through a dedicated infusion line equipped with a sterile, non-pyrogenic, low-protein binding in-line or add-on filter (0.2 or 0.22 micrometer pore size) and catheter. Polivy must not be administered as intravenous push or bolus.

For instructions on reconstitution and dilution of the medicinal product before administration, see section 6.6.

Precaution to be taken before handling or administering the product

Polivy contains a cytotoxic component which is covalently attached to the monoclonal antibody. Follow applicable proper handling and disposal procedure (see section 6.6).

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.
Active severe infections (see section 4.4).

4.4 Special warnings and precautions for use

Traceability

In order to improve traceability of biological medicinal products, the trade name and the batch number of the administered product should be clearly recorded.

Myelosuppression

Serious and severe neutropenia and febrile neutropenia have been reported in patients treated with Polivy as early as the first cycle of treatment. Prophylactic granulocyte colony stimulating factor (G-CSF) administration was required in the clinical development and should be considered. Grade 3 or 4 thrombocytopenia or anaemia can also occur with Polivy. Complete blood counts should be monitored prior to each dose of Polivy. More frequent lab monitoring and/or Polivy delays or discontinuation should be considered for patients with Grade 3 or Grade 4 neutropenia and/or thrombocytopenia (see section 4.2).

Peripheral neuropathy (PN)

PN has been reported in patients treated with Polivy as early as the first cycle of treatment, and the risk increases with sequential doses. Patients with pre-existing PN may experience worsening of this condition. PN reported with treatment with Polivy is predominantly sensory PN. However, motor and sensorimotor PN have also been reported. Patients should be monitored for symptoms of PN such as hypoesthesia, hyperesthesia, paraesthesia, dysesthesia, neuropathic pain, burning sensation, muscle weakness, or gait disturbance. Patients experiencing new or worsening PN may require a delay, dose reduction, or discontinuation of Polivy (see section 4.2).

Infections

Serious, life threatening or fatal infections, including opportunistic infections, such as pneumonia (including *pneumocystis jirovecii* and other fungal pneumonia), bacteraemia, sepsis, herpes infection, and cytomegalovirus infection have been reported in patients treated with Polivy (see section 4.8). Reactivation of latent infections has been reported. Patients should be closely monitored during treatment for signs of bacterial, fungal, or viral infections and seek medical advice if signs and symptoms appear. Anti-infective prophylaxis should be considered throughout treatment with Polivy. Polivy should not be

administered in the presence of an active severe infection. Polivy and any concomitant chemotherapy should be discontinued in patients who develop serious infections.

Human Immunodeficiency Virus (HIV)

Polivy has not been evaluated in patients with HIV. With regard to co-administration of CYP3A-inhibitors see section 4.5.

Immunization

Live or live-attenuated vaccines should not be given concurrently with the treatment. Studies have not been conducted in patients who recently received live vaccines.

Progressive multifocal leukoencephalopathy (PML)

PML has been reported with Polivy treatment (see section 4.8). Patients should be monitored closely for new or worsening neurological, cognitive, or behavioural changes suggestive of PML. Polivy and any concomitant chemotherapy should be withheld if PML is suspected and permanently discontinued if the diagnosis is confirmed.

Tumour lysis syndrome (TLS)

Patients with high tumour burden and rapidly proliferative tumour may be at increased risk of TLS. Appropriate measures/prophylaxis in accordance with local guidelines should be taken prior to treatment with Polivy. Patients should be monitored closely for TLS during treatment with Polivy.

Infusion-related reactions

Polivy can cause IRRs, including severe cases. Delayed IRRs as late as 24 hours after receiving Polivy have occurred. An antihistamine and antipyretic should be administered prior to the administration of Polivy, and patients should be monitored closely throughout the infusion. If an IRR occurs, the infusion should be interrupted and appropriate medical management should be instituted (see section 4.2).

Embryo-foetal toxicity

Based on the mechanism of action and nonclinical studies, Polivy can be harmful to the foetus when administered to a pregnant woman (see section 5.3). Pregnant women should be advised regarding risk to the foetus.

Women of childbearing potential should be advised to use effective contraception during treatment with Polivy and for at least 9 months after the last dose (see section 4.6). Male patients with female partners of childbearing potential should be advised to use effective contraception during treatment with Polivy and for at least 6 months after the last dose (see section 4.6).

Fertility

In non-clinical studies, polatuzumab vedotin has resulted in testicular toxicity, and may impair male reproductive function and fertility (see section 5.3). Therefore, men being treated with Polivy are advised to have sperm samples preserved and stored before treatment (see section 4.6).

Elderly

Among 435 previously untreated DLBCL patients treated with Polivy in combination with R-CHP in Study GO39942, 227 (52.2%) were ≥ 65 years of age. Patients aged ≥ 65 had an incidence of serious adverse reactions of 39.2% and 28.4% in patients aged < 65 . A similar incidence of serious adverse reactions was seen in elderly patients in the R-CHOP treatment arm.

Among 151 previously treated DLBCL patients treated with Polivy in combination with bendamustine and rituximab (BR) in Study GO29365, 103 (68%) were ≥ 65 years of age. Patients aged ≥ 65 had a similar incidence of serious adverse reactions (55%) to patients aged < 65 (56%). Clinical studies of Polivy did not include sufficient numbers of patients aged ≥ 65 to determine whether they respond differently from younger patients.

Hepatic toxicity

Serious cases of hepatic toxicity that were consistent with hepatocellular injury, including elevations of transaminases and/or bilirubin, have occurred in patients treated with Polivy (see section 4.8). Pre-existing liver disease, elevated baseline liver enzymes, and concomitant medicinal products may increase the risk. Liver enzymes and bilirubin level should be monitored (see section 4.2).

Excipients

This medicinal product contains less than 1 mmol sodium (23 mg) per dose, that is to say essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interaction

No dedicated clinical drug-drug interaction studies with polatuzumab vedotin in humans have been conducted.

Drug interactions with concomitant medicines that are CYP3A4 inhibitors, substrates or inducers and co-medications that are P-gp inhibitors

Based on physiological-based pharmacokinetic (PBPK) model simulations of MMAE released from polatuzumab vedotin, strong CYP3A4 and P-gp inhibitors (e.g., ketoconazole) may increase the area under the concentration-time curve (AUC) of unconjugated MMAE by 48%. Caution is advised in case of concomitant treatment with CYP3A4 inhibitor. Patients receiving concomitant strong CYP3A4 inhibitors (e.g., boceprevir, clarithromycin, cobicistat, indinavir, itraconazole, nefazodone, nelfinavir, posaconazole, ritonavir, saquinavir, telaprevir, telithromycin, voriconazole) should be monitored more closely for signs of toxicities.

Unconjugated MMAE is not predicted to alter the AUC of concomitant medicines that are CYP3A4 substrates (e.g., midazolam).

Strong CYP3A4 inducers (e.g., rifampicin, carbamazepine, phenobarbital, phenytoin, St John's wort [*Hypericum perforatum*]) may decrease the exposure of unconjugated MMAE.

Drug interactions of rituximab, cyclophosphamide, and doxorubicin in combination with polatuzumab vedotin

The pharmacokinetics (PK) of rituximab, cyclophosphamide, and doxorubicin are not affected by co-administration with polatuzumab vedotin. Concomitant rituximab is associated with increased antibody conjugated MMAE (acMMAE) plasma AUC by 24% and decreased unconjugated MMAE plasma AUC by 37%, based on population PK analysis. The plasma AUC of acMMAE and unconjugated MMAE for Polivy plus R-CHP are in line with other studies of Polivy. No dose adjustment is required.

4.6 Fertility, pregnancy and lactation

Women of childbearing potential/Contraception in males and females

Women

Women of childbearing potential should be advised to use effective contraception during treatment with polatuzumab vedotin and for at least 9 months after the last dose.

Men

Male patients with female partners of childbearing potential should be advised to use effective contraception during treatment with polatuzumab vedotin and for at least 6 months after the last dose.

Pregnancy

There are no data in pregnant women using Polivy. Studies in animals have shown reproductive toxicity (see section 5.3). Based on the mechanism of action and nonclinical studies, polatuzumab vedotin can be harmful to the foetus when administered to a pregnant woman. In women of childbearing potential, the pregnancy status shall be checked prior to treatment. Polivy is not recommended during pregnancy and in women of childbearing potential not using contraception unless the potential benefit for the mother outweighs the potential risk to the foetus.

Breast-feeding

It is not known whether polatuzumab vedotin or its metabolites are excreted in human breast milk. A risk for breast-feeding children cannot be excluded. Women should discontinue breast-feeding during treatment with Polivy and for at least 3 months after the last dose.

Fertility

In nonclinical studies, polatuzumab vedotin has resulted in testicular toxicity, and may impair male reproductive function and fertility (see section 5.3).

Therefore, men being treated with this medicine are advised to have sperm samples preserved and stored before treatment. Men being treated with Polivy are advised not to father a child during treatment and for up to 6 months following the last dose.

4.7 Effects on ability to drive and use machines

Polivy has minor influence on the ability to drive and use machines. IRRs, PN, fatigue, and dizziness may occur during treatment with Polivy (see sections 4.4 and 4.8).

4.8 Undesirable effects

Summary of the safety profile

The safety of Polivy has been evaluated in 435 patients in Study GO39942 (POLARIX). The ADRs described in section 4.8 were identified:

- during treatment and follow-up of previously untreated DLBCL patients from the pivotal clinical trial GO39942 (POLARIX), who received Polivy plus R-CHP (n=435) or R-CHOP (n=438). In the Polivy plus R-CHP group, 91.7% received 6 cycles of Polivy versus 88.5% of patients who received 6 cycles of vincristine in the R-CHOP group.

In previously untreated DLBCL patients treated with Polivy plus R-CHP:

The most frequently-reported ($\geq 30\%$) adverse drug reactions (ADRs) in patients treated with Polivy plus R-CHP for previously untreated DLBCL were neuropathy peripheral (52.9%), nausea (41.6%), neutropenia (38.4%), and diarrhoea (30.8%).

- Serious adverse reactions were reported in 24.1% of Polivy plus R-CHP treated patients.
- The most common serious adverse reactions reported in $\geq 5\%$ of patients were febrile neutropenia (10.6%) and pneumonia (5.3%).
- The ADRs leading to treatment regimen discontinuation in $> 1\%$ of patients treated with Polivy plus R-CHP was pneumonia (1.1%).

The safety of Polivy has been evaluated in 151 patients in Study GO29365. The ADRs described in section 4.8 were identified:

- during treatment and follow-up of previously treated DLBCL patients (n=151) from the pivotal clinical trial GO29365. This includes run-in phase patients (n=6), randomized patients (n=39), and extension cohort patients (n=106) who received Polivy plus BR compared to randomized patients (n=39) who received BR alone. Patients in the treatment arms received a median of 5 cycles of treatment while randomized patients in the comparator arm received a median of 3 cycles of treatment.

In previously treated DLBCL patients treated with Polivy plus BR:

- The most frequently reported ($\geq 30\%$) ADRs (all grades) in patients treated with Polivy plus BR in previously treated DLBCL were neutropenia (45.7%), diarrhoea (35.8%), nausea (33.1%), thrombocytopenia (32.5%), anaemia (31.8%) and neuropathy peripheral (30.5%).
- Serious adverse reactions were reported in 41.7% of Polivy plus BR treated patients.
- The most common serious adverse reactions reported in $\geq 5\%$ of patients were: febrile neutropenia (10.6%), sepsis (9.9%), pneumonia (8.6%) and pyrexia (7.9%).
- The ADR leading to treatment regimen discontinuation in $> 5\%$ of patients treated with Polivy plus BR was thrombocytopenia (7.9%).

Tabulated list of ADRs from clinical trials

The ADRs in 586 patients treated with Polivy are presented in *Table 4*. The ADRs are listed below by MedDRA system organ class (SOC) and categories of frequency. The corresponding frequency category for each adverse drug reaction is based on the following convention: very common ($\geq 1/10$), common ($\geq 1/100$ to $< 1/10$), uncommon ($\geq 1/1000$ to $< 1/100$), rare ($\geq 1/10000$ to $< 1/1000$), very rare ($< 1/10000$). Within each frequency grouping, adverse reactions are presented in the order of decreasing seriousness.

Table 4 Tabulated list of ADRs in patients treated with Polivy in clinical trials

Infections and infestations	
Very common	pneumonia ^a , upper respiratory tract infection
Common	sepsis ^a , herpes virus infection ^a , cytomegalovirus infection, urinary tract infection ^c
Blood and lymphatic system disorders	
Very common	febrile neutropenia, neutropenia, thrombocytopenia, anaemia, leukopenia
Common	lymphopenia, pancytopenia
Metabolism and nutrition disorders	
Very common	hypokalaemia, decreased appetite
Common	hypocalcaemia, hypoalbuminemia
Nervous system disorders	
Very common	neuropathy peripheral
Common	dizziness
Eye disorders	
Uncommon	vision blurred ^b
Respiratory, thoracic and mediastinal disorders	
Very common	cough
Common	pneumonitis, dyspnoea ^c
Gastrointestinal disorders	

Very common	diarrhoea, nausea, constipation, vomiting, mucositis ^c , abdominal pain
Skin and subcutaneous tissue disorders	
Very common	alopecia ^c
Common	pruritus, skin infections ^c , rash ^c , dry skin ^c
Musculoskeletal disorders	
Common	arthralgia, myalgia ^c
General disorders and administration site conditions	
Very common	pyrexia, fatigue, asthenia
Common	peripheral edema ^c , chills
Investigations	
Very common	weight decreased
Common	transaminases increased, lipase increase ^b , hypophosphataemia
Injury, poisoning and procedural complications	
Very Common	infusion related reaction

^a ADR associated with fatal outcome

^b ADRs observed in relapsed or refractory DLBCL only.

^c ADRs observed in previously untreated DLBCL only.

The listed ADRs were observed in both previously untreated DLBCL and relapsed or refractory DLBCL except where indicated with footnotes.

Rare and very rare ADRs: none

Description of selected adverse drug reactions

Myelosuppression

In a placebo-controlled study GO39942 (POLARIX), 0.5% of patients in the Polivy plus R-CHP arm discontinued study treatment due to neutropenia. No patients discontinued study treatment in the R-CHOP arm due to neutropenia. Thrombocytopenia events led to discontinuation of study treatment in 0.2% of patients in the Polivy plus R-CHP arm compared to no patients in the R-CHOP arm. No patients discontinued treatment due to anaemia in either the Polivy plus R-CHP arm or R-CHOP arm.

In an open-label study GO29365, 4% of patients in the Polivy plus BR arms discontinued Polivy due to neutropenia compared to 2.6% of patients in the BR arm who discontinued treatment due to neutropenia. Thrombocytopenia events led to discontinuation of treatment in 7.9% of patients in the Polivy plus BR arms and 5.1% of patients in the BR arm. No patients discontinued treatment due to anaemia in either the Polivy plus BR arms or BR arm. In the Polivy plus BR arms, Grade 3 or higher neutropenia, thrombocytopenia, and anaemia were reported in 40.4%, 25.8%, and 12.6% of patients, respectively.

Peripheral neuropathy (PN)

In a placebo-controlled study GO39942 (POLARIX), in the Polivy plus R-CHP arm, Grade 1, 2, and 3 PN were reported in 39.1%, 12.2% and 1.6% of patients, respectively. In the R-CHOP arm, Grade 1, 2 and 3 PN events were reported in 37.2%, 15.5% and 1.1% of patients, respectively. No Grade 4-5 PN events were reported in either the Polivy plus R-CHP arm or R-CHOP arm. 0.7% of patients discontinued study treatment in the Polivy plus R-CHP arm due to PN compared to 2.3% in the R-CHOP arm. 4.6% of patients in the Polivy plus R-CHP arm had study treatment dose reduction due to PN compared to 8.2% in the R-CHOP arm. In the Polivy plus R-CHP arm, the median time to onset of first event of PN was 2.27 months compared to 1.87 months in the R-CHOP arm. PN events resolved in 57.8% of patients in the Polivy plus R-CHP arm as of the clinical cut off date compared to 66.9% in the R-CHOP arm. The median time to peripheral neuropathy resolution was 4.04 months in the Polivy plus R-CHP arm compared to 4.6 months in the R-CHOP arm.

In an open-label study GO29365, in the Polivy plus BR arms, Grade 1 PN and Grade 2 PN were reported in 15.9% and 12.6% of patients, respectively. In the BR arm, Grade 1 and 2 PN events were reported in 2.6% and 5.1% of patients, respectively. One Grade 3 PN event was reported in the Polivy plus BR arms and no patients reported PN events in the BR arm. No Grade 4-5 PN events were reported in either the Polivy plus BR arms or BR arm. 2.6% of patients discontinued Polivy treatment due to PN and 2.0% of patients had Polivy dose reduction due to PN. No patients in the BR arm discontinued treatment or had dose reductions due to PN. In the Polivy plus BR arms, the median time to onset of first event of PN was 1.6 months, and 39.1% of patients with PN events reported event resolution.

Infections

In a placebo-controlled study GO39942 (POLARIX), infections, including pneumonia and other types of infections, were reported in 49.7% of patients in the Polivy plus R-CHP arm and 42.7% of patients in the R-CHOP arm. Grade 3-4 infections occurred in 14.0% of patients in the Polivy plus R-CHP arm and 11.2% of patients in the R-CHOP arm. In the Polivy plus R-CHP arm, serious infections were reported in 14.0% of patients and fatal infections were reported in 1.1% of patients. In the R-CHOP arm, serious infections were reported in 10.3% of patients and fatal infections were reported in 1.4% of patients. 7 patients (1.6%) in the Polivy plus R-CHP arm discontinued treatment due to infection compared to 10 patients (2.3%) in the R-CHOP arm.

In an open-label study GO29365, infections, including pneumonia and other types of infections, were reported in 48.3% of patients in the Polivy plus BR arms and 51.3% of patients in the BR arm. In the Polivy plus BR arms, serious infections were reported in 27.2% of patients and fatal infections were reported in 6.6% of patients. In the BR arm, serious infections were reported in 30.8% of patients and fatal infections were reported in 10.3% of patients. Four patients (2.6%) in the Polivy plus BR arms discontinued treatment due to infection compared to 2 patients (5.1%) in the BR arm.

Progressive multifocal leukoencephalopathy (PML)

In a placebo-controlled study GO39942 (POLARIX), no cases of PML were reported.

In an open-label study GO29365, one case of PML, which was fatal, occurred in one patient treated with Polivy plus bendamustine and obinutuzumab. This patient had three prior lines of therapy that included anti-CD20 antibodies.

Hepatic toxicity

In a placebo-controlled study GO39942 (POLARIX), hepatic toxicity was reported in 10.6% of patients in the Polivy plus R-CHP arm and 7.3% of patients in the R-CHOP arm. In the Polivy plus R-CHP arm, most events were Grade 1-2 (8.7%); Grade 3 events were reported in 1.8% of patients. There were no Grade 4 or 5 events. Serious hepatic toxicity events were reported in 1 patient (0.2%) and were reversible.

In another study, two cases of serious hepatic toxicity (hepatocellular injury and hepatic steatosis) were reported and were reversible.

Gastrointestinal toxicity

In a placebo-controlled study GO39942 (POLARIX), gastrointestinal toxicity events were reported in 76.1% of patients in the Polivy plus R-CHP arm compared to 71.9% of patients in the R-CHOP arm. Most events were Grade 1-2, and Grade 3 events were reported in 9.7% of patients in the Polivy plus R-CHP arm compared to 8.2% of patients in the R-CHOP arm. The most common gastrointestinal toxicity events were nausea and diarrhoea.

In an open-label study GO29365, gastrointestinal toxicity events were reported in 72.8% of patients in the Polivy plus BR arms compared to 66.7% of patients in the BR arm. Most events were Grade 1-2, and Grade 3-4 events were reported in 16.5% of patients in the Polivy plus BR arms compared to 12.9% of patients in the BR arm. The most common gastrointestinal toxicity events were diarrhoea and nausea.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system.

4.9 Overdose

There is no experience with overdose in human clinical trials. The highest dose tested to date is 2.4 mg/kg administered as an intravenous infusion; it was associated with a higher frequency and severity of PN events. Patients who experience overdose should have immediate interruption of their infusion and be closely monitored.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: antineoplastic agents; other antineoplastic agents; monoclonal antibodies
ATC code: L01FX14

Mechanism of action

Polatuzumab vedotin is a CD79b-targeted antibody-drug conjugate that preferentially delivers anti-mitotic agent (monomethyl auristatin E, or MMAE) to B-cells, which results in the killing of malignant B-cells. The polatuzumab vedotin molecule consists of MMAE covalently attached to a humanized immunoglobulin G1 monoclonal antibody via a cleavable linker. The monoclonal antibody binds with high affinity and selectivity to CD79b, a cell surface component of the B-cell receptor. CD79b expression is restricted to normal cells within the B-cell lineage (with the exception of plasma cells) and malignant B-cells; it is expressed in > 95% of diffuse large B-cell lymphoma. Upon binding CD79b, polatuzumab vedotin is rapidly internalized and the linker is cleaved by lysosomal proteases to enable intracellular delivery of MMAE. MMAE binds to microtubules and kills dividing cells by inhibiting cell division and inducing apoptosis.

Pharmacodynamic effects

Cardiac electrophysiology

In the placebo-controlled study GO39942 (POLARIX), ECGs were normal for the majority of patients at the start of treatment and remained normal throughout the course of treatment in both the Polivy plus R-CHP arm and control arm. The number of patients with a clinically significant ECG abnormality was comparable between the treatment arms at screening and post-baseline.

Polatuzumab vedotin did not prolong the mean QTc interval to any clinically relevant extent based on ECG data from two open-label studies in patients with previously treated B-cell malignancies at the recommended dosage.

Clinical efficacy and safety

Previously untreated DLBCL

The efficacy of Polivy was evaluated in an international, multicenter, randomized double-blind, placebo-controlled study (POLARIX, GO39942) in 879 patients with previously untreated DLBCL.

Eligible patients were age 18–80, and had IPI score 2–5, and ECOG Performance Status 0–2. Histologies included DLBCL (not otherwise specified (NOS), activated B-cell (ABC), germinal center B-cell (GCB)), HGBL (NOS, double-hit, triple-hit), and other large B-cell lymphoma subtypes (EBV positive, T-cell rich/histiocyte rich). Patients did not have known CNS lymphoma or peripheral neuropathy > Grade 1.

Patients were randomized 1:1 to receive Polivy plus R-CHP or R-CHOP for six 21-day cycles followed by two additional cycles of rituximab alone in both arms. Patients were stratified by IPI score (2 vs 3-5), presence or absence of bulky disease (lesion \geq 7.5 cm), and geographical region.

Polivy was administered intravenously at 1.8 mg/kg on Day 1 of Cycles 1–6. R-CHP or R-CHOP were administered starting on Day 1 of Cycles 1–6 followed by rituximab alone on Day 1 of Cycles 7–8. Dosing in each treatment arm was administered according to the following:

- Polivy + R-CHP arm: Polivy 1.8 mg/kg, rituximab 375 mg/m², cyclophosphamide 750 mg/m², doxorubicin 50 mg/m², and prednisone 100 mg/day, on Days 1-5 of every cycle, orally.
- R-CHOP arm: rituximab 375 mg/m², cyclophosphamide 750 mg/m², doxorubicin 50 mg/m², vincristine 1.4 mg/m², and prednisone 100 mg/day, on Days 1-5 of every cycle, orally.

The two treatment groups were generally balanced with respect to baseline demographics and disease characteristics. The median age was 65 years (range 19 to 80 years), 53.6% of patients were white and 53.8% were male, 43.8% had bulky disease, 38.0% had IPI score 2, 62.0% had IPI score 3–5, and 88.7% had Stage 3 or 4 disease. The majority of patients (84.2%) had DLBCL (including NOS, ABC, and GCB). 211 patients did not have a cell of origin (COO) result reported. Of the COO evaluable population (n=668), 33.1% of patients had ABC like DLBCL and 52.7% of patients had GCB like DLBCL, by gene expression profiling.

The primary endpoint of the study was investigator-assessed progression free survival. The median duration of follow up was 28.2 months. Efficacy results are summarized in *Table 5* and in *Figure 1*.

Table 5 Summary of efficacy in patients with previously untreated DLBCL from Study GO39942 (POLARIX)

	Polivy + R-CHP n=440	R-CHOP n=439
Primary Endpoint		
Progression free survival ^{1,*}		
Number (%) of patients with events	107 (24.3%)	134 (30.5%)
HR (95% CI)	0.73 [0.57, 0.95]	
p-value ^{3,**}	0.0177	
2-year PFS estimate (%)	76.7	70.2
[95% CI]	[72.65, 80.76]	[65.80, 74.61]
Key secondary endpoints		
Event-free survival (EFS _{eff}) ¹		
Number (%) of patients with event	112 (25.5%)	138 (31.4%)
HR [95% CI]	0.75 [0.58, 0.96]	
p-value ^{3,**}	0.0244	
Objective Response Rate (ORR) at End of Treatment ²		

Responders (%) (CR, PR)	376 (85.5%)	368 (83.8%)
Difference in response rate (%) [95% CI]	1.63 [-3.32, 6.57]	
Complete Response (%) (CR) Rate ^{2,*}		
Responders (%)	343 (78.0%)	325 (74.0%)
Difference in response rate (%) [95% CI]	3.92 [-1.89, 9.70]	
Partial response (%) (PR)	33 (7.5%)	43 (9.8%)
95% CI Clopper-Pearson	[5.22, 10.37]	[7.18, 12.97]

INV: Investigator; BICR: Blinded independent central review; CI: Confidence interval; HR: Hazard ratio; PFS: Progression free survival; EFSeff: Event free survival efficacy: used to reflect EFS events that are due to efficacy and defined as time from date of randomization to the earliest occurrence of any of the following: disease progression/relapse, death due to any cause, the primary efficacy reason determined by the investigator, other than disease progression/relapse, that led to initiation of any non-protocol specified anti-lymphoma treatment (NALT), if biopsy was obtained after treatment completion and was positive for residual disease regardless of whether NALT was initiated or not; CMH: Cochran-Mantel-Haenszel

1) INV-assessed

2) BICR-assessed

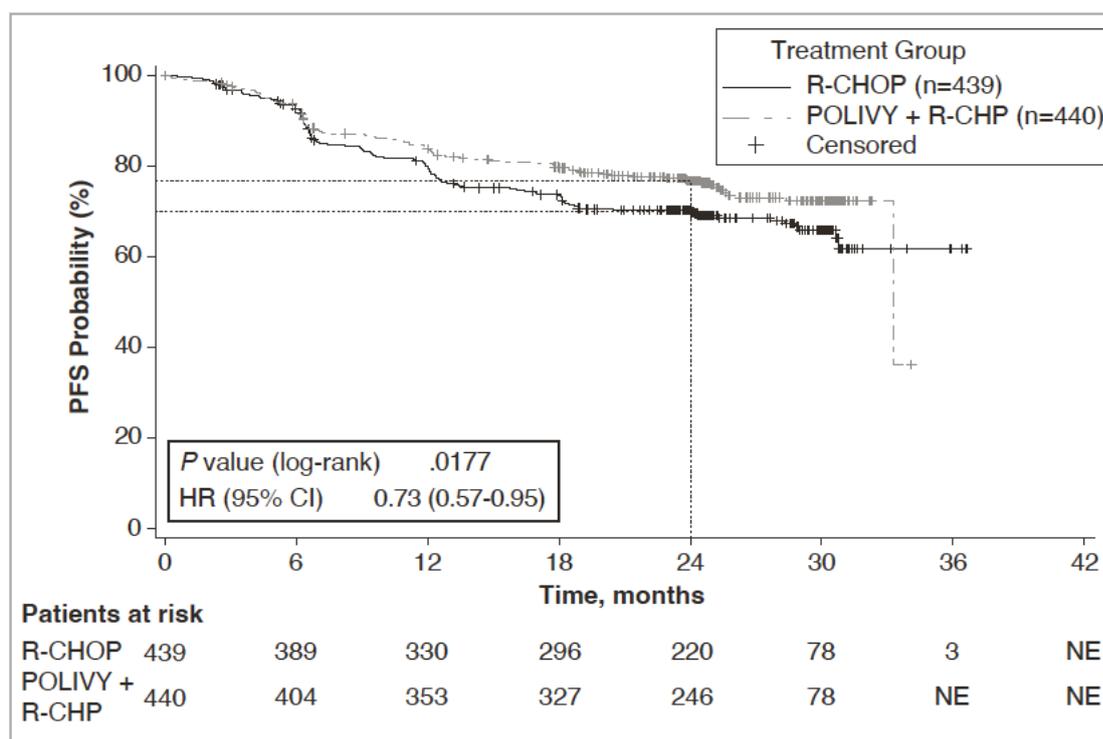
3) Log-rank test, stratified

*Per Lugano 2014 Response Criteria

**Stratified by IPI (2 vs 3-5), presence or absence of bulky disease, geography

At the interim analysis, the key secondary endpoint of OS was immature and was not statistically different [stratified hazard ratio of 0.94 (95% CI, 0.65, 1.37); p=0.7524].

Figure 1 Kaplan Meier curve of INV-assessed progression-free survival (PFS) in Study GO39942 (POLARIX)



Relapsed or refractory DLBCL

The efficacy of Polivy was evaluated in an international, multicentre, open-label study (GO29365) which included a randomized cohort of 80 patients with previously treated DLBCL. Patients were randomized 1:1 to receive Polivy plus BR or BR alone for six 21-day cycles. Patients were stratified by duration of response to last prior treatment of ≤ 12 months or > 12 months.

Eligible patients were not candidates for autologous haematopoietic stem cell transplant (HSCT) and had relapsed or refractory disease after receiving at least one prior systemic chemotherapy regimen. The study excluded patients with prior allogeneic HSCT, central nervous system lymphoma, transformed indolent

lymphoma, grade 3b FL, significant cardiovascular or pulmonary disease, active infections, AST or alanine transaminase (ALT) > 2.5 ULN or total bilirubin $\geq 1.5 \times$ ULN, creatinine > 1.5 \times ULN (or CrCl < 40 mL/min) unless due to underlying lymphoma.

Polivy was given intravenously at 1.8 mg/kg administered on Day 2 of Cycle 1 and on Day 1 of Cycles 2-6. Bendamustine was administered at 90 mg/m² intravenously daily on Days 2 and 3 of Cycle 1 and on Days 1 and 2 of Cycles 2-6. Rituximab was administered at 375 mg/m² on Day 1 of Cycles 1-6.

Among the 80 patients who were randomized to receive Polivy plus BR (n=40) or BR alone (n=40) the majority were white (71%) and male (66%). The median age was 69 years (range: 30-86 years). Sixty-four out of 80 patients (80%) had ECOG performance status (PS) of 0-1 and 14 out of 80 patients (18%) had ECOG PS of 2. The majority of patients (98%) had DLBCL not otherwise specified (NOS). Overall, 48% of patients had activated B-cell (ABC) DLBCL and 40% had germinal center B-cell like (GCB) DLBCL. Primary reasons patients were not candidates for HSCT included age (40%), insufficient response to salvage therapy (26%) and prior transplant failure (20%). The median number of prior therapies was 2 (range: 1-7), with 29% (n=23) receiving one prior therapy, 25% (n=20) receiving 2 prior therapies, and 46% (n=37) receiving 3 or more prior therapies. All except one patient in the pola+BR arm of the randomized Phase II were naïve to bendamustine treatment. 80% of patients had refractory disease. For patients who received polatuzumab vedotin plus BR and had CD3+ lymphocyte count evaluated, the absolute CD3+ lymphocyte count was > 200 cells/ μ L in 95%, 79% and 83% of patients analyzed at prior to therapy (n=134), end of treatment (n=72) and 6 months after end of treatment (n=18), respectively.

The primary endpoint of the study was complete response (CR) rate at end of treatment (6-8 weeks after Day 1 of Cycle 6 or last study treatment) as assessed by PET-CT by an Independent Review Committee (IRC).

Table 6 Summary of efficacy in patients with previously treated DLBCL from study GO29365

	Polivy + bendamustine + rituximab N=40	Bendamustine + rituximab N=40
	Median observation time 22 months	
Primary endpoint		
Complete Response Rate* (IRC-assessed) at End of treatment**		
Responders (%)	16 (40.0)	7 (17.5)
Difference in response rate (%) [95% CI]		22.5 [2.6, 40.2]
p-value (CMH chi-squared test***)		0.0261
Key secondary and exploratory endpoints		
Duration of response (INV-assessed)		
Number of patients included in analysis	28	13
Number (%) of patients with event	17 (60.7)	11 (84.6)
Median DOR (95% CI), months	10.3 (5.6, NE)	4.1 (2.6, 12.7)
HR [95% CI]		0.44 [0.20, 0.95]
p-value (Log-Rank test, stratified***)		0.0321
Overall Response Rate* (INV-assessed) at End of Treatment**		
Responders (%) (CR, PR)	19 (47.5)	7 (17.5)
Difference in response rate (%) [95% CI]		30.0 [9.5, 47.4]
p-value (CMH chi-squared test***)		0.0036
Complete Response (%) (CR)	17 (42.5)	6 (15.0)
Difference in response rate (%) [95% CI]		27.5 [7.7, 44.7]
p-value (CMH chi-squared test***)		0.0061
Partial Response (%) (PR)	2 (5.0)	1 (2.5)
95% CI Clopper-Pearson	[0.6, 16.9]	[0.06, 13.2]
Best Overall Response Rate* (INV-assessed)		
Responders (%) (CR, PR)	28 (70.0)	13 (32.5)
Difference in response rate (%) [95% CI]		37.5 [15.6, 54.7]
Complete Response (%) (CR)	23 (57.5)	8 (20.0)
95% CI Clopper-Pearson	[40.9, 73.0]	[9.1, 35.7]

	Polivy + bendamustine + rituximab N=40	Bendamustine + rituximab N=40
	Median observation time 22 months	
Partial Response (%) (PR)	5 (12.5)	5 (12.5)
95% CI Clopper-Pearson	[4.2, 26.8]	[4.2, 26.8]

CI: Confidence Interval; CMH: Cochran-Mantel-Haenszel; CR: Complete Response; DOR: Duration of Response; HR: Hazard Ratio; INV: Investigator; IRC: Independent Review Committee; NE: Not evaluable; PR: Partial Response

*Per modified Lugano 2014 criteria: Bone marrow confirmation of PET-CT CR required. PET-CT PR required meeting both PET-CT criteria and CT criteria.

**6-8 weeks after Day 1 of Cycle 6 or last study treatment

*** Stratification by duration of response to prior therapy (≤ 12 months vs > 12 months)

Overall survival (OS) was an exploratory endpoint which was not type 1 error controlled. The median OS in the Polivy plus BR arm was 12.4 months (95% CI: 9.0, NE) vs 4.7 months (95% CI: 3.7, 8.3) in the control arm. The unadjusted estimate for OS HR was 0.42. When accounting for the influence of baseline covariates the OS HR was adjusted to 0.59. Covariates included primary refractory status, number of prior lines of therapy, IPI, and prior stem cell transplant.

Investigator-assessed progression free survival (PFS) was an exploratory endpoint which was not type 1 error controlled. The median PFS in the Polivy plus BR arm was 7.6 months (95% CI: 6.0, 17.0) vs 2.0 months (95% CI: 1.5, 3.7) in the control arm. The unadjusted estimate for PFS HR was 0.34.

Immunogenicity

As with all therapeutic proteins, there is the potential for an immune response in patients treated with polatuzumab vedotin. In Studies GO39442 (POLARIX) and GO29365, 1.4% (6/427) and 5.2% (12/233) of patients tested positive for antibodies against polatuzumab vedotin, respectively, of which none were positive for neutralizing antibodies. Due to the limited number of anti-polatuzumab vedotin antibody positive patients, no conclusions can be drawn concerning a potential effect of immunogenicity on efficacy or safety.

Immunogenicity assay results are highly dependent on several factors including assay sensitivity and specificity, assay methodology, sample handling, timing of sample collection, concomitant medications and underlying disease. For these reasons, comparison of incidence of antibodies to polatuzumab vedotin with the incidence of antibodies to other products may be misleading.

Paediatric population

See section 4.2 for information on paediatric use.

5.2 Pharmacokinetic properties

Antibody-conjugated MMAE (acMMAE) plasma exposure increased dose-proportionally over the 0.1 to 2.4 mg/kg polatuzumab vedotin dose range. After the first 1.8 mg/kg polatuzumab vedotin dose, the acMMAE mean maximum concentration (C_{max}) was 803 (± 233) ng/mL and the area under the concentration-time curve from time zero to infinity (AUC_{inf}) was 1860 (± 966) day•ng/mL. Based on the population PK analysis, Cycle 3 acMMAE AUC increased by approximately 30% over Cycle 1 AUC, and achieved more than 90% of the Cycle 6 AUC. The terminal half-life at Cycle 6 was approximately 12 days (95% CI of 8.1-19.5 days) for acMMAE. Based on population PK analysis, the predicted acMMAE concentration at the end of Cycle 6 is approximately 80% of the theoretical steady-state value. Exposures of unconjugated MMAE, the cytotoxic component of polatuzumab vedotin, increased dose proportionally over the 0.1 to 2.4 mg/kg polatuzumab vedotin dose range. MMAE plasma concentrations followed formation rate limited kinetics. After the first 1.8 mg/kg polatuzumab vedotin dose, the C_{max} was 6.82 (± 4.73) ng/mL, the time to maximum plasma concentration is approximately 2.5 days, and the terminal half-life is approximately 4 days. Plasma exposures of unconjugated MMAE are $< 3\%$ of acMMAE exposures. Based on the population PK analysis there is a decrease of plasma unconjugated MMAE exposure (AUC) after repeated every-three-week dosing.

Based on population pharmacokinetics simulations, a post-hoc analysis predicted exposure to unconjugated MMAE for patients with bodyweight over 100 kg to be increased by not more than 55%.

Absorption

Polivy is administered as an intravenous infusion. There have been no studies performed with other routes of administration.

Distribution

The population estimate of central volume of distribution for acMMAE was 3.15 L, which approximated plasma volume. *In vitro*, MMAE is moderately bound (71%-77%) to human plasma proteins. MMAE does not significantly partition into human red blood cells *in vitro*; the blood to plasma ratio is 0.79 to 0.98.

In vitro data indicate that MMAE is a P-gp substrate but does not inhibit P-gp at clinically relevant concentrations.

Biotransformation

Polatuzumab vedotin is expected to undergo catabolism in patients, resulting in the production of small peptides, amino acids, unconjugated MMAE, and unconjugated MMAE related catabolites. The levels of MMAE metabolites have not been measured in human plasma.

In vitro studies indicate that MMAE is a substrate for CYP3A4/5 but does not induce major CYP enzymes. MMAE is a weak time-dependent inhibitor of CYP3A4/5 but does not competitively inhibit CYP3A4/5 at clinically relevant concentrations.

MMAE does not inhibit CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, or CYP2D6.

Elimination

Based on a population PK analysis, the conjugate (acMMAE) is primarily eliminated by non-specific linear clearance pathway with a value of 0.9 L/day. *In vivo* studies in rats dosed with polatuzumab vedotin (radiolabel on MMAE) demonstrate that the majority of radioactivity is excreted in faeces and the minority of radioactivity is excreted in urine.

Paediatric population

No studies have been conducted to investigate the pharmacokinetics of polatuzumab vedotin in the paediatric population (< 18 years old).

Elderly

Age did not have an effect on the pharmacokinetics of acMMAE and unconjugated MMAE based on population PK analyses with patients aged 19-89 years. No significant difference was observed in the pharmacokinetics of acMMAE and unconjugated MMAE among patients < 65 years of age (n=394) and patients ≥ 65 years of age (n=495) based on population PK analyses.

Renal impairment

No dedicated renal impairment study was conducted to assess the effects of renal impairment upon the pharmacokinetics of polatuzumab vedotin. Based on population PK analyses of integrated data from the Polivy clinical studies, in patients with mild (CrCL 60-89 mL/min, n=361) or moderate (CrCL 30-59 mL/min, n=163) renal impairment, acMMAE and unconjugated MMAE exposures are similar to patients with normal renal function (CrCL ≥ 90 mL/min, n=356). There are insufficient data to assess the impact

of severe renal impairment (CrCL 15-29 mL/min, n=4) on PK. No data are available in patients with end-stage renal disease and/or who are on dialysis.

Hepatic impairment

No dedicated hepatic impairment study was conducted to assess the effects of hepatic impairment upon the pharmacokinetics of polatuzumab vedotin. Based on population PK analyses of integrated data from the Polivy clinical studies, in patients with mild hepatic impairment [AST or ALT > 1.0 to 2.5 × ULN or total bilirubin > 1.0 to 1.5 × ULN, n=133], acMMAE exposures are similar whereas unconjugated MMAE AUC are not more than 40% higher compared to patients with normal hepatic function (n=737). There are insufficient data to assess the impact of moderate hepatic impairment (total bilirubin > 1.5-3 × ULN, n=11) on PK. Limited data are available in patients with severe hepatic impairment or liver transplantation.

5.3 Preclinical safety data

Systemic toxicity

In both rats and cynomolgus monkeys, the predominant systemic toxicities associated with administration of MMAE and polatuzumab vedotin included reversible bone marrow toxicity and associated peripheral blood cell effects.

Toxicity of polatuzumab vedotin and MMAE observed in rats and cynomolgus monkeys is consistent with the expected toxicity of a tubulin-binding agent, causing arrest of the cell cycle and apoptosis especially in rapidly dividing tissues. The main target organs are bone marrow, lymphoid organs, reproductive organs and liver with less severe effects on eye, skin and pancreas.

Genotoxicity

No dedicated mutagenicity studies have been performed with polatuzumab vedotin. MMAE was not mutagenic in the bacterial reverse mutation assay (Ames test) or the L5178Y mouse lymphoma forward mutation assay.

MMAE was genotoxic in the rat bone marrow micronucleus study probably through an aneugenic mechanism. This mechanism is consistent with the pharmacological effect of MMAE as a microtubule disrupting agent.

Carcinogenicity

No dedicated carcinogenicity studies have been performed with polatuzumab vedotin and/or MMAE.

Impairment of fertility

No dedicated fertility studies in animals have been performed with polatuzumab vedotin. However, results of the 4-week rat toxicity study indicate the potential for polatuzumab vedotin to impair male reproductive function and fertility. Testicular seminiferous tubule degeneration did not reverse following a 6-week treatment-free period and correlated with decreased testes weight and gross findings at recovery necropsy of small and/or soft testes in males given ε 2 mg/kg.

Reproductive toxicity

No dedicated teratogenicity studies in animals have been performed with polatuzumab vedotin. However, treatment of pregnant rats with MMAE at 0.2 mg/kg caused embryoletality and foetal malformations (including protruding tongue, malrotated limbs, gastroschisis, and agnathia). Systemic exposure (AUC) in rats at a dose of 0.2 mg/kg MMAE is approximately 50% of the AUC in patients who received the recommended dose of 1.8 mg/kg Polivy every 21 days.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Succinic acid
Sodium hydroxide (for pH-adjustment)
Sucrose
Polysorbate 20 (E 432)

6.2 Incompatibilities

This medicinal product must not be mixed or diluted with other medicinal products except those mentioned in section 6.6.

6.3 Shelf life

Unopened vial: see information on label of vial and box.

Reconstituted solution

From a microbiological point of view, the reconstituted solution should be used immediately. If not used immediately, in-use storage times and conditions prior to use are the responsibility of the user and would normally not be longer than 24 hours refrigerated (2°C-8°C), unless reconstitution has taken place in controlled and validated aseptic conditions. Chemical and physical in-use stability of the reconstituted solution has been demonstrated for up to 72 hours refrigerated (2°C-8°C) and up to 24 hours at room temperature (9°C-25°C).

Diluted solution

From a microbiological point of view, the prepared solution for infusion should be used immediately. If not used immediately, in-use storage times and conditions prior to use are the responsibility of the user and would normally not be longer than 24 hours refrigerated (2°C-8°C), unless dilution has taken place in controlled and validated aseptic conditions. Chemical and physical stability of the prepared solution for infusion has been demonstrated for the durations listed in *Table 6*. The diluted solution must be discarded if storage time exceeds the limits specified in *Table 6*.

Table 6 Durations for which chemical and physical stability of the prepared solution for infusion have been demonstrated

Diluent used to prepare solution for infusion	Solution for infusion storage conditions ¹
Sodium chloride 9 mg/mL (0.9%)	Up to 72 hours refrigerated (2°C – 8°C) or up to 4 hours at room temperature (9°C – 25°C)
Sodium chloride 4.5 mg/mL (0.45%)	Up to 72 hours refrigerated (2°C – 8°C) or up to 8 hours at room temperature (9°C – 25°C)
5% glucose	Up to 72 hours refrigerated (2°C – 8°C) or up to 8 hours at room temperature (9°C – 25°C)

¹ To ensure product stability, do not exceed specified storage durations.

6.4 Special precautions for storage

Unopened vial: store in a refrigerator (2°C-8°C).

Do not freeze.

Keep the vial in the outer carton in order to protect from light.

For storage conditions after reconstitution and dilution of the medicinal product, see section 6.3.

6.5 Nature and contents of container

Polivy 30 mg powder for concentrate for solution for infusion:

6 mL vial (colourless Type 1 glass) closed with a stopper (fluororesin laminate), with an aluminium seal with plastic flip-off cap containing 30 mg polatuzumab vedotin. Pack size of one vial.

Polivy 140 mg powder for concentrate for solution for infusion:

20 mL vial (colourless Type 1 glass) closed with a stopper (fluororesin laminate), with an aluminium seal with plastic flip-off cap containing 140 mg polatuzumab vedotin. Pack size of one vial.

6.6 Special precautions for disposal and other handling

General precautions

Polivy contains a cytotoxic component. To be administered under the supervision of a physician experienced in the use of cytotoxic agents. Procedures for proper handling and disposal of antineoplastic and cytotoxic medicines should be used.

The reconstituted product contains no preservative and is intended for single-dose only. Proper aseptic technique throughout the handling of this medicinal product should be followed.

Polivy must be reconstituted using sterile water for injection and diluted into an intravenous infusion bag containing sodium chloride 9 mg/mL (0.9%) solution for injection, or sodium chloride 4.5 mg/ml (0.45%) solution for injection, or 5% glucose prior to administration.

The reconstituted solution and solution for infusion should not be frozen or exposed to direct sunlight.

Instructions for reconstitution

- Polivy 30 mg: Using a sterile syringe, slowly inject 1.8 mL of sterile water for injection into the 30 mg Polivy vial to yield a single-dose solution containing 20 mg/mL polatuzumab vedotin. Direct the stream toward the wall of the vial and not directly on the lyophilized cake.
- Polivy 140 mg: Using a sterile syringe, slowly inject 7.2 mL of sterile water for injection into the 140 mg Polivy vial to yield a single-dose solution containing 20 mg/mL polatuzumab vedotin. Direct the stream toward the wall of the vial and not directly on the lyophilized cake.
- Swirl the vial gently until completely dissolved. Do not shake.
- Inspect the reconstituted solution for discoloration and particulate matter. The reconstituted solution should appear colourless to slightly brown, clear to slightly opalescent, and free of visible particulates. Do not use if the reconstituted solution is discoloured, is cloudy, or contains visible particulates.

Instructions for dilution

1. Polivy must be diluted to a final concentration of 0.72-2.7 mg/mL in an intravenous infusion bag, with a minimum volume of 50 mL, containing 9 mg/mL sodium chloride solution for injection, or 4.5 mg/mL sodium chloride solution for injection, or 5% glucose.
2. Determine the volume of 20 mg/mL reconstituted solution needed based on the required dose (see below):

$$\text{Total Polivy dose (mL) to be further diluted} = \frac{\text{Polivy dose (mg/kg)} \times \text{patient's weight (kg)}}{\text{Reconstituted vial concentration (20 mg/mL)}}$$
3. Withdraw the required volume of reconstituted solution from the Polivy vial using a sterile syringe and dilute into the intravenous infusion bag. Discard any unused portion left in the vial.
4. Gently mix the intravenous bag by slowly inverting the bag. Do not shake.
5. Inspect the intravenous bag for particulates and discard if present.

Avoid transportation of the prepared solution for infusion as agitation stress can result in aggregation. If the prepared infusion will be transported, remove air from the infusion bag and limit transportation to 30 minutes room temperature (9°C 25°C) or 24 hours refrigerated (2°C 8°C). If air is removed, an infusion set with a vented spike is required to ensure accurate dosing during the infusion. The total storage plus transportation times of the diluted product should not exceed the storage duration specified in *Table 6* (see section 6.3).

Polivy must be administered using a dedicated infusion line equipped with sterile, non-pyrogenic, low-protein binding in-line or add-on filter (0.2 or 0.22 micrometer pore size) and catheter.

Polivy is compatible with intravenous infusion bags with product contacting materials of polyvinyl chloride (PVC) or polyolefins such as polyethylene (PE) and polypropylene. In addition, no incompatibilities have been observed with infusion sets or infusion aids with product contacting materials of PVC, PE, polyurethane, polybutadiene, acrylonitrile butadiene styrene, polycarbonate, polyetherurethane, fluorinated ethylene propylene, or polytetrafluorethylene and with filter membranes composed of polyether sulfone or polysulfone.

Disposal

Polivy is for single-use only.

Any unused product or waste material should be disposed of in accordance with local requirements.

Packs

Box, 1 vial @ 30 mg

Box, 1 vial @ 140 mg

Reg. No.: DKI2357511480A1

Reg. No.: DKI2357511480A1

Medicine: keep out of reach and sight of children
 Obat: Jauhkan dari jangkauan dan pandangan anak-anak
On medical prescription only
Harus dengan resep dokter

Pada proses pembuatannya bersinggungan dengan bahan bersumber babi.

Made by:

Polivy 140

BSP Pharmaceuticals S.p.A.
Latina Scalo (LT), Italy

Polivy 30

F. Hoffmann-La Roche AG
Kaiseraugst, Switzerland

Released by:

F. Hoffmann-La Roche AG
Kaiseraugst, Switzerland

For:

F. Hoffmann-La Roche Ltd.
Basel, Switzerland

Imported by:

PT Menarini Indria Laboratories
Bekasi, Indonesia

Distributed by:

PT Roche Indonesia,
Jakarta, Indonesia

(This PI draft has been reviewed and approved for submission by Rahmawati and Renata on 05-Apr-2024)

INFORMASI PRODUK UNTUK PASIEN

POLIVY®
Polatuzumab Vedotin
serbuk untuk larutan infus
30 mg; 140 mg

Bacalah brosur ini dengan saksama sebelum Anda mulai menggunakan obat ini karena brosur ini berisi informasi yang penting bagi Anda.

- Simpanlah brosur ini. Anda mungkin perlu membacanya kembali.
- Jika Anda memiliki pertanyaan lebih lanjut, tanyakan pada dokter, apoteker atau perawat Anda.
- Obat ini hanya diresepkan untuk Anda. Jangan berikan obat ini ke orang lain. Hal itu dapat membahayakan mereka, meskipun tanda-tanda penyakitnya sama dengan Anda.
- Jika Anda mengalami efek samping, bicarakanlah dengan dokter, apoteker atau perawat Anda. Hal ini termasuk efek samping yang mungkin terjadi di luar dari apa yang tercantum pada brosur ini. Lihat bagian 4.

Apa yang terdapat dalam brosur ini

1. Apa itu Polivy dan kegunaannya
2. Apa yang perlu Anda ketahui sebelum diberikan Polivy
3. Cara pemberian Polivy
4. Efek samping yang mungkin terjadi
5. Cara penyimpanan Polivy
6. Isi kemasan dan informasi lainnya

1. Apa itu Polivy dan kegunaannya

Apa itu Polivy

Polivy adalah obat kanker yang mengandung zat aktif “polatuzumab vedotin”.

Apa kegunaan Polivy

Polivy diberikan untuk mengobati “limfoma sel-B besar difus” yang belum pernah diobati sebelumnya. Polivy diberikan dalam kombinasi dengan obat kanker lainnya, yaitu rituximab, siklofosfamid, doksorubisin, dan prednisone.

Polivy juga diberikan untuk mengobati “limfoma sel-B besar difus” yang muncul kembali atau tidak pernah memberi respons terapi pada setidaknya satu terapi sebelumnya dan ketika pasien tidak dapat menerima transplantasi sel punca.

Polivy diberikan dalam kombinasi dengan obat kanker lainnya, yaitu bendamustin dan rituximab.

“Limfoma sel-B besar difus” adalah kanker yang berasal dari “limfosit B” yang juga disebut sel-B. Sel ini merupakan suatu jenis sel darah.

Bagaimana Polivy bekerja

Polivy mengandung suatu antibodi monoklonal dan zat yang dapat membunuh kanker yang disebut monomethyl auristatin E (MMAE). Antibodi monoklonal akan menempel pada targetnya di sel-B. Setelah menempel pada sel-B, obat melepaskan MMAE ke dalam sel-B dan membunuhnya.

2. Apa yang perlu Anda ketahui sebelum Anda diberikan Polivy

Keadaan dimana Anda tidak boleh diberikan Polivy

- jika Anda alergi terhadap polatuzumab vedotin atau bahan lain dari obat ini (tercantum di bagian 6).
- jika saat ini Anda memiliki infeksi berat yang aktif.

Jika hal di atas berlaku untuk Anda, Anda tidak boleh diberikan Polivy. Jika Anda tidak yakin, harap konsultasikan dengan dokter atau perawat Anda sebelum Anda diberikan Polivy.

Peringatan dan pencegahan

Beri tahu kepada dokter, apoteker atau perawat Anda sebelum Anda diberikan Polivy jika beberapa hal berikut ini berlaku untuk Anda (atau jika Anda tidak yakin):

- Anda pernah mengalami gangguan pada otak atau saraf seperti:
 - gangguan ingatan
 - kesulitan bergerak atau mengalami sensasi di tubuh Anda seperti merasa kesemutan, terbakar, nyeri dan tidak nyaman bahkan dari sentuhan ringan
 - masalah penglihatan
- Anda pernah mengalami gangguan organ hati (liver)
- Anda merasa terkena infeksi atau menderita infeksi jangka-panjang atau infeksi berulang seperti herpes (lihat “Infeksi” di bagian 4)
- Anda akan dijadwalkan untuk vaksinasi atau Anda mengetahui jika Anda mungkin perlu mendapatkan vaksinasi dalam waktu dekat

Apabila hal-hal di atas terjadi pada Anda (atau jika Anda tidak yakin) beri tahu kepada dokter, apoteker, atau perawat Anda sebelum Anda diberikan Polivy.

Perhatikan efek samping berikut

Polivy dapat menyebabkan beberapa efek samping serius yang perlu Anda beritahukan segera pada dokter, apoteker atau perawat Anda, jika Anda mengalaminya, diantaranya:

Mielosupresi

Mielosupresi adalah suatu kondisi dimana produksi sel darah normal menurun, menyebabkan jumlah sel darah merah, sel darah putih, dan keping darah yang lebih sedikit. Dokter Anda akan melakukan pemeriksaan darah untuk memeriksa jumlah sel darah Anda.

Beri tahu dokter atau perawat Anda segera jika Anda:

- merasa kebingungan atau menggigil
- mengalami demam
- sakit kepala
- merasa lelah
- merasa pusing
- terlihat pucat
- mengalami perdarahan yang tidak biasa, memar di bawah kulit, perdarahan yang lebih lama dari biasanya setelah prosedur pengambilan darah, atau perdarahan dari gusi Anda.

Neuropati perifer

Beri tahu dokter, apoteker atau perawat Anda segera apabila Anda mengalami gangguan pada perubahan kepekaan kulit Anda, terutama pada tangan dan kaki, seperti:

- mati rasa
- kesemutan
- sensasi terbakar

- nyeri
- ketidaknyamanan atau kelemahan
- kesulitan berjalan.

Apabila Anda memiliki gejala-gejala tersebut sebelum pengobatan dengan Polivy, beri tahu dokter segera kepada dokter Anda apabila Anda merasakan perubahan pada gejala-gejala tersebut.

Jika Anda memiliki gejala neuropati perifer, dokter Anda dapat menurunkan dosis Anda.

Infeksi

Tanda dan gejala infeksi bervariasi antar individu, beri tahu dokter, apoteker atau perawat Anda segera jika Anda mengalami gejala infeksi seperti:

- demam
- batuk
- nyeri dada
- kelelahan
- ruam yang terasa nyeri
- sakit tenggorokan
- nyeri seperti terbakar saat berkemih
- merasa lemah atau secara keseluruhan merasa tidak sehat

Leukoensefalopati Multifokal Progresif (disebut juga LMP)

LMP merupakan infeksi otak yang sangat jarang dan mengancam jiwa, pernah dilaporkan pada satu pasien yang mendapatkan terapi menggunakan Polivy bersama dengan bendamustine dan obat lain bernama obinutuzumab.

Beri tahu dokter atau perawat Anda segera jika Anda merasa:

- hilang ingatan
- kesulitan berbicara
- kesulitan berjalan
- gangguan pada penglihatan Anda.

Apabila Anda memiliki gejala-gejala tersebut sebelum pengobatan dengan Polivy, beri tahu dokter segera kepada dokter Anda apabila Anda merasakan perubahan pada gejala-gejala tersebut. Anda mungkin membutuhkan pengobatan/penanganan medis.

Sindrom Lisis Tumor (disebut juga SLT)

Beberapa orang dapat mengalami peningkatan kadar yang tidak biasa pada beberapa zat (seperti kalium dan asam urat) dalam darah, yang disebabkan oleh penguraian yang cepat pada sel kanker selama pengobatan. Hal ini disebut SLT. Dokter Anda akan melakukan tes darah untuk memeriksa kondisi tersebut.

Reaksi terkait infus

Reaksi terkait infus, alergi atau anafilaksis (alergi yang lebih parah) dapat terjadi. Dokter, perawat atau apoteker akan memeriksa efek samping yang muncul selama penginfusan dan selama 30-90 menit setelahnya. Jika Anda menderita reaksi yang serius, dokter dapat menghentikan pengobatan dengan Polivy.

Kerusakan hati

Obat ini dapat menyebabkan peradangan atau kerusakan pada sel-sel di organ hati sehingga dapat memengaruhi fungsi normal organ hati. Sel hati yang rusak dapat menyebabkan kebocoran zat tertentu

(enzim hati dan bilirubin) dalam jumlah besar ke dalam aliran darah, yang dapat dideteksi pada pemeriksaan darah.

Pada kebanyakan kasus Anda bisa jadi tidak akan merasakan gejala apapun, namun segera beri tahu dokter, apoteker atau perawat Anda apabila Anda mengalami perubahan warna menjadi kekuningan pada kulit dan bagian putih mata Anda (ikterus).

Dokter Anda akan melakukan pemeriksaan darah untuk menilai fungsi hati Anda sebelum pengobatan dan secara rutin selama pengobatan.

Anak-anak dan remaja

Obat ini tidak boleh diberikan pada anak-anak atau remaja di bawah usia 18 tahun. Hal ini dikarenakan manfaat dan keamanan pada kelompok usia tersebut belum dapat dipastikan.

Obat-obat lain dan Polivy

Obat-obat dan vaksin

Beri tahu dokter, apoteker atau perawat Anda apabila saat ini dan beberapa waktu sebelumnya Anda mengonsumsi obat lain, atau mungkin akan mulai mengonsumsi obat lain. Hal ini termasuk obat yang Anda dapatkan tanpa resep dan obat-obat herbal.

Beri tahukan juga kepada dokter, apoteker atau perawat jika Anda dijadwalkan untuk divaksin atau Anda mengetahui jika Anda perlu divaksin dalam waktu dekat.

Kontrasepsi (perempuan dan laki-laki)

Jika Anda seorang wanita usia subur, Anda harus menggunakan kontrasepsi yang efektif selama pengobatan dan selama 9 bulan setelah dosis terakhir Polivy.

Laki-laki harus menggunakan kontrasepsi selama pengobatan dan selama 6 bulan setelah dosis terakhir Polivy.

Kehamilan

Penting untuk memberi tahu dokter Anda sebelum dan selama pengobatan apabila Anda hamil, berpikir mungkin Anda hamil, atau berencana untuk hamil. Hal ini dikarenakan Polivy dapat memengaruhi kesehatan bayi Anda.

Jangan gunakan obat ini jika Anda sedang hamil kecuali Anda dan dokter Anda memutuskan bahwa manfaat untuk Anda melebihi risiko yang mungkin berpotensi terjadi pada bayi yang belum lahir.

Menyusui

Jangan menyusui saat menggunakan Polivy dan selama setidaknya 3 bulan setelah dosis terakhir, karena sebagian kecil Polivy dapat masuk ke dalam ASI Anda.

Kesuburan

Pasien laki-laki disarankan untuk memiliki sampel sperma yang diawetkan dan disimpan sebelum memulai pengobatan dengan obat ini karena uji pada hewan menunjukkan bahwa Polivy dapat mengganggu fungsi reproduksi dan kesuburan hewan jantan.

Mengemudi dan menggunakan mesin

Polivy memiliki pengaruh kecil pada kemampuan Anda untuk mengemudi, bersepeda, atau mengoperasikan alat atau mesin.

- Jika Anda mengalami reaksi terkait infus atau kerusakan saraf, atau jika Anda merasa lelah, lemah, atau pusing (lihat bagian 4), jangan mengemudi, bersepeda, atau mengoperasikan alat atau mesin hingga reaksi obat berhenti.

Lihat bagian 4 untuk informasi lebih lanjut mengenai efek samping.

Polivy mengandung natrium

Obat ini mengandung kurang dari 1 mmol natrium (23 mg) per dosis, yang pada dasarnya dapat disebut 'bebas natrium'.

3. Cara pemberian Polivy

Polivy diberikan di bawah pengawasan dokter yang berpengalaman dalam memberikan pengobatan tersebut.

Polivy diberikan melalui vena, sebagai infus drip selama 90 menit.

Berapa banyak Polivy yang diberikan

Dosis obat ini tergantung pada berat badan Anda.

- Dosis lazim untuk memulai pengobatan ini adalah 1,8 mg per kilogram berat badan Anda.
- Jika Anda memiliki neuropati perifer, dokter Anda dapat menurunkan dosis Anda.

Seberapa sering Polivy diberikan

- Setiap siklus berdurasi 21 hari. Polivy diberikan pada hari pertama setiap siklus.
- Anda akan diberikan 6 siklus pengobatan Polivy yang dikombinasikan dengan obat lain.

Obat lain apa yang diberikan bersama dengan Polivy

- rituximab, siklofosfamid, doksorubisin, dan prednison untuk “limfoma sel-B besar difus” yang belum pernah diobati sebelumnya
- bendamustin dan rituximab untuk “limfoma sel-B besar difus” yang muncul kembali atau tidak pernah memberi respons terapi pada setidaknya satu terapi sebelumnya dan ketika pasien tidak dapat menerima transplantasi sel punca.

Jika Anda melewatkan satu dosis Polivy

- Apabila Anda melewatkan satu jadwal pemberian obat, segera datang ke dokter untuk pemberian obat tersebut.
- Agar pengobatan dapat sepenuhnya efektif, sangat penting untuk tidak melewatkan satu dosis pun.

Jika Anda berhenti menerima Polivy

Jangan menghentikan pengobatan dengan Polivy kecuali Anda telah mendiskusikan hal tersebut dengan dokter Anda. Hal ini dikarenakan penghentian pengobatan dapat memperburuk kondisi Anda.

Jika Anda memiliki pertanyaan lebih lanjut tentang penggunaan obat ini, tanyakan kepada dokter, apoteker atau perawat Anda.

4. Efek samping yang mungkin terjadi

Seperti halnya dengan obat lain, Polivy dapat menyebabkan efek samping, meskipun tidak semua pasien mendapatkannya. Beberapa efek samping berikut pernah dilaporkan terkait dengan Polivy:

Efek samping yang serius

Beri tahu dokter, apoteker atau perawat Anda segera jika Anda merasakan efek samping serius berikut:

Anda mungkin memerlukan perawatan medis segera. Hal ini dapat berupa gejala baru atau perubahan gejala yang sedang Anda alami.

- reaksi terkait infus – dokter Anda akan memeriksanya selama 30-90 menit setelah penginfusan
- demam dan atau menggigil
- ruam/gatal-gatal
- infeksi berat
- pneumonia (infeksi paru-paru)
- infeksi herpes
- infeksi sitomegalovirus
- infeksi saluran pernapasan bagian atas
- infeksi kulit
- infeksi saluran kemih
- perdarahan yang tidak biasa atau memar di bawah kulit yang tidak biasa
- kehilangan ingatan, kesulitan berbicara, kesulitan berjalan
- kulit atau bagian putih mata menjadi kuning
- tidak dapat bernapas dan kesulitan bernapas

Efek samping lainnya

Beri tahu dokter, apoteker atau perawat Anda jika Anda menyadari adanya efek samping berikut:

Sangat umum: dapat terjadi pada lebih dari 1 dari 10 pasien

- pneumonia (infeksi paru-paru)
- pilek, bersin, radang tenggorokan dan batuk (infeksi saluran pernapasan bagian atas)
- mati rasa, kesemutan, sensasi terbakar, nyeri, ketidaknyamanan atau kelemahan dan/atau kesulitan berjalan (neuropati perifer)
- demam
- batuk
- muntah
- diare atau sembelit
- sakit atau radang mulut dan/atau perut (mukositis)
- mual
- nyeri perut
- merasa lelah
- tidak merasa lapar
- penurunan berat badan
- reaksi terkait infus
- flu
- kerontokan rambut
- perubahan pada hasil tes darah:
 - rendahnya kadar semua jenis sel darah putih (gabungan)
 - rendahnya kadar neutrofil (sejenis sel darah putih) dengan atau tanpa demam
 - rendahnya kadar trombosit (sejenis sel darah yang membantu darah Anda untuk membeku)
 - rendahnya kadar sel darah merah (anemia)

Umum: dapat terjadi pada 1 dari 10 pasien

- infeksi berat (sepsis)
- infeksi saluran kemih
- infeksi sitomegalovirus
- infeksi herpes
- infeksi kulit
- radang paru-paru
- tidak dapat bernapas dan kesulitan bernapas
- pusing
- retensi cairan yang menyebabkan pembengkakan pada tungkai bawah atau tangan (edema perifer)
- tingkat transaminase yang tinggi dalam darah
- nyeri sendi
- gatal
- menggigil
- ruam
- kulit kering
- nyeri otot
- perubahan yang ditunjukkan dalam tes darah:
 - penurunan jumlah semua sel darah (pansitopenia)
 - rendahnya kadar limfosit (sejenis sel darah putih)
 - rendahnya kadar fosfat dalam darah (hipofosfatemia)
 - rendahnya kadar kalsium dalam darah (hipokalsemia)
 - rendahnya kadar albumin dalam darah (hipoalbuminemia)
 - rendahnya kadar kalium dalam darah (hipokalemia)

Tidak umum (dapat terjadi pada 1 dari 100 pasien)

- penglihatan kabur

Segera beri tahu dokter, perawat atau apoteker jika Anda mengalami salah satu dari efek samping di atas.

Pelaporan efek samping

Apabila Anda mengalami efek samping apa pun, hubungi dokter, apoteker, atau perawat Anda. Hal ini termasuk semua efek samping lainnya yang tidak tercantum dalam brosur ini. Dengan melaporkan efek samping, Anda dapat membantu menyediakan informasi tambahan terkait keamanan obat ini.

Anda juga dapat melaporkan efek samping secara langsung melalui:

PT Roche Indonesia – Local Safety Unit

Email: indonesia.safety@roche.com

5. Cara penyimpanan Polivy

Polivy akan disimpan oleh penyedia layanan kesehatan di rumah sakit atau klinik. Detil penyimpanan adalah sebagai berikut:

- Jauhkan obat ini dari pandangan dan jangkauan anak-anak.
- Jangan menggunakan obat ini setelah tanggal kedaluwarsa yang tertulis pada kemasan luar setelah tulisan EXP. Tanggal kedaluwarsa mengacu pada hari terakhir dari bulan tersebut.
- Vial yang belum dibuka disimpan di lemari pendingin (2°C–8°C). Vial yang sudah dibuka dan diencerkan dengan pelarut menjadi cairan konsentrat, dapat disimpan di lemari pendingin (2°C–8°C) selama 72 jam atau pada ruangan dengan temperatur 9°C–25°C selama 24 jam. Proses pengenceran dilakukan oleh petugas layanan kesehatan di rumah sakit atau klinik.
- Jangan dibekukan.
- Simpan vial di dalam karton luar agar terlindung dari cahaya.

Obat sebaiknya tidak dibuang melalui pembuangan air atau pembuangan rumah tangga. Penyedia layanan kesehatan Anda akan membuang obat yang tidak lagi digunakan dengan benar. Hal ini akan membantu melindungi lingkungan sekitar.

6. Isi kemasan dan informasi lainnya

Apa kandungan Polivy

- Zat aktifnya adalah polatuzumab vedotin.
- Polivy 30 mg: Setiap vial mengandung 30 miligram (mg) polatuzumab vedotin.
- Polivy 140 mg: Setiap vial mengandung 140 miligram (mg) polatuzumab vedotin.
- Setelah rekonstitusi setiap mililiter (mL) mengandung 20 mg polatuzumab vedotin.
- Bahan lainnya adalah: asam suksinat, natrium hidroksida, sukrosa, polisorbit 20.
- Lihat bagian “Polivy mengandung natrium”.

Seperti apa Polivy dan isiemasannya

Polivy serbuk untuk larutan infus merupakan padatan serbuk berwarna putih hingga putih keabuan di dalam vial berbahan kaca.

Setiap kemasan Polivy terdiri atas satu vial.

Kemasan:

Dus, 1 vial @ 30 mg; No. Reg.: DKI2357511480A1

Dus, 1 vial @ 140 mg; No. Reg.: DKI2357511480A1

Obat: Jauhkan dari jangkauan dan pandangan anak-anak
Harus dengan resep dokter

Pada proses pembuatannya bersinggungan dengan
bahan bersumber babi.

Dibuat oleh:

Polivy 140

BSP Pharmaceuticals S.p.A.

Latina Scalo (LT), Italia

Polivy 30

F. Hoffmann-La Roche AG

Kaiseraugst, Swiss

Dirilis oleh:

F. Hoffmann-La Roche AG

Kaiseraugst, Swiss

Untuk:

F. Hoffmann-La Roche Ltd.

Basel, Swiss

Diimpur oleh:

PT Menarini Indria Laboratories
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Didistribusikan oleh:

PT Roche Indonesia,
Jakarta, Indonesia

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