

YOU CAN NOW CHOOSE A NEW JOURNEY, A BETTER ONE THAN THE CLASSICAL ROUTE.



1st line **CLL** patients¹ superiority versus rituximab

2nd line **FL** ritux-refract patients² superiority after rituximab

▼ This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions.

1. Goede et al.; N Engl J Med 2014; 370: 1101–1110. 2. Sehn et al.; Lancet Oncol 2016; 17,8: 1081–1093.

CLL: Chronic Lymphocytic Leukemia; FL: Follicular Lymphoma; ritux-refract: Rituximab Refractory



This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions.
NAME OF THE MEDICINAL PRODUCT: Gazyvaro 1.000 mg concentrate for solution for infusion. QUALITATIVE AND QUANTITATIVE COMPOSITION: One vial of 40 mL

GAZYVARO 1000mg (1 vial)* : 3457,03 €

concentrate contains 1.000 mg obinutuzumab, corresponding to a concentration before dilution of 25 mg/mL. Obinutuzumab is a Type II humanised anti-CD20 monoclonal antibody concentrate contains 1.000 mg obmutuziman, corresponding to a concentration before duution of 25 mg/mL. Obmutuzimans as 1 ype 11 humanised anti-U2D immotectional antibody of the IgG1 subclass derived by humanisation of the parental B-Ly1 mouse antibody and produced in the Chinese Hamster Ovary cell line by recombinant DNA technology. PHARMACEUTICAL FORM: Concentrate for solution for infusion. Clear, colourless to slightly brownish liquid. THERAPEU-TIC INDUCATIONS: <u>Chronic Lymphocytic Leukaemia</u> (CLL): Gazyvaro in combination with chlorambucil is indicated for the treatment of adult patients with previously untreated chronic lymphocytic leukaemia (CLL) and with comorbidities making them unsuitable for full-dose fludarabine based therapy. <u>Follicular Lymphom</u> (FL): Gazyvaro in combination with chemotherapy, followed by Gazyvaro maintenance therapy in patients achieving a response, is indicated for the treatment of patients with previously untreated chronic lymphocytic leukaemia (CLL) and with chemotherapy. Followed by Gazyvaro maintenance therapy in patients achieving a response, is indicated for the treatment of patients with previously untreated during or up to 6 months after treatment with rituxinab-containing regimen. POSOLOGY AND METHOD OF ADMINISTRATION: Ga-for the patient of the treatment of patients with rituxinab-containing regimen. POSOLOGY AND METHOD OF ADMINISTRATION: Ga-for the patient of the vary and by dary hard mannetance of the dark of the da completed at least 1 hour prior to Gazyvaro infusion. Oral analgesic/anti-pyretic². Administration: at least 30 minutes before Gazyvaro infusion. Anti-histaminic medicine³. Administration: at least 30 minutes before Gazyvaro infusion. Cral analgesic/anti-pyretic². Administration: at least 30 minutes before Gazyvaro infusion. Anti-histaminic medicine³. Administration: at least 30 minutes before Gazyvaro infusion. Cral analgesic/anti-pyretic². Administration: at least 30 minutes before Gazyvaro infusion. Anti-histaminic medicine³. Administration: at least 30 minutes before Gazyvaro infusion. Anti-histaminic medicine³. Administration: at least 30 minutes before Gazyvaro infusion. Anti-histaminic medicine³. Administration: at least 30 minutes before Gazyvaro infusion. Anti-histaminic medicine³. Administration: at least 30 minutes before Gazyvaro infusion. Anti-histaminic medicine³. Administration: at least 30 minutes before Gazyvaro infusion. Anti-histaminic medicine³. Administration: at least 30 minutes before Gazyvaro infusion. Patients with no IRR during the previous infusion. Oral analgesic/anti-pyretic². Administration: at least 30 minutes before Gazyvaro infusion. Patients with an IRR (Grade 1 or 2) with the previous infusion. Oral analgesic/anti-pyretic². Administration: at least 30 minutes before Gazyvaro infusion. Patients with an IRR (Grade 1 or 2) with the previous infusion. Oral analgesic/anti-pyretic². Administration: at least 30 minutes before Gazyvaro infusion. Patients with an IRR (Grade 1 or 2) with the previous infusion. Oral analgesic/anti-pyretic². Administration: at least 30 minutes before Gazyvaro infusion. Anti-histaminic medicine³. Administration: at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion OR Patients with lymphocyte counts >25 x 10% prior to next treatment: infravenous corticosteroid⁴. Administration: completed at least 1 hour prior to Gazyvaro infusion. Oral analgesic/anti-pyretic³. Administration: at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion OR Patients with lymphocyte counts >25 x 10% prior to next treatment: infravenous corticosteroid⁴. Administration: completed at least 1 hour prior to Gazyvaro infusion. Oral analgesic/anti-pyretic³. Administration: at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion or at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion or at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion or at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion or at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion at least 30 minutes before Gazyvaro infusion. Patients with a Grade 3 IRR with the previous infusion at least 30 minutes before Gazyvaro not be used as it has not been effective in reducing rates of IRR.² e.g. 1.000 mg acetaminophen/paracetamol.¹ e.g. 50 mg diphenhydramine. 4.If a corticosteroid-containing chemotherapy regimen is administered on the same day as Gazyvaro, the corticosteroid can be administered as an oral medication if given at least 60 minutes prior to Gazyvaro, in which case additional IV corticosteroid as premedication is not required. Dose: **CLL**, in combination with chlorambucil. For patients with CLL the recommended dose of Gazyvaro, in which case additional IV corticosteroid as premedication is not required. Dose: **CLL**, in combination with chlorambucil. For patients with CLL the recommended dose of Gazyvaro in combination with chlorambucil is 1,000 mg administered over Day 1 and Day 2, (or Day 1 continued), and on Day 8 and Day 15 of the first 28 day treatment cycle. Two infusion bags should be prepared for the infusion on Days 1 and 2 (100 mg for Day 1 and 900 mg for Day 2). If the first bag is completed without modifications of the infusion rate or interruptions, the second bag may be administered on the same day (no dose delay necessary, no repetition of premedication), provided that appropriate time, conditions and medical supervision are available throughout the infusion. If there are any modifications of the infusion rate or interruptions during the first 100 mg the second bag must be administered the following day. <u>Cycles 2 – 6</u>: The recommended dose of Gazyvaro in combination with chlorambucil is 1,000 mg administered on Day 1 of each cycle. *List 2*: Dose of Gazyvaro in combination with chlorambucil is 1,000 mg administered on Day 1 of each cycle. *List 2*: Dose of Gazyvaro in combination with chlorambucil is 1,000 mg administered on Day 1 of each cycle. in and any insufances in the management of the many low may be considered as a constrained in the community of the many low of for 2 years or until disease progression (whichever occurs first). <u>Patients with follicular lymphoma who did not respond or who progressed during or up to 6 months after treatment with rituximab or a rituximab-containing regimen. Induction (in combination with bendamustine²). Gazyvaro should be administered in six 28-day cycles in combination with bendamustine². Maintenance. Patients who achieved a complete or partial response to induction treatment (i.e. the initial 6 treatment cycles) with Gazyvaro in combination with bendamustine². Maintenance. Patients who achieved a complete or partial response to induction treatment (i.e. the initial 6 treatment cycles) with Gazyvaro in combination with bendamustine². Journal of the complete or partial response to induction treatment (i.e. the initial 6 treatment cycles) with Gazyvaro in combination with bendamustine². Journal of the complete or partial response to induction treatment (i.e. the initial 6 treatment cycles) with Gazyvaro in combination with bendamustine or have stable disease should continue to receive Gazyvaro. **1**,000 mg as single agent maintenance therapy once every 2 months for 2 years or until disease progression (whichever occurs first). *List 3*. Dose of Gazyvaro to be administered during induction treatment; followed by maintenance treatment: *Cycle, day of treatment, dose of Gazyvaro*. **Cycle 1**, **D1**: 1.000</u> 1,000 mg as single agent maintenance therapy once vevry 2 months for 2 years or until disease progression (whichever occurs first). *List 5*. Dose of Gazyvaro to be administered during induction treatment, followed by maintenance treatment *Cycle, day* of preatment, *dose of Gazyvaro*. *Cycle* 1, **DI**: 1,000 mg. *Cycle* 1, **DE**: 1.000 mg. *Cycle* 1, **DE**: 1.000 mg. *Cycle* 2.6 or 2.8, **DI**: 1.000 mg. *Maintenance*: Every two months for two years or until disease progression (whichever occurs first). *Delayed or missed*, is should be administered as soon as possible; do not omit i or wait until the next planned dose. If toxicity occurs before Cycle 1 Day 15, requiring delay of treatment, these doses should be given after resolution of toxicity. In such instances, all subsequent visits and the start of Cycle 2 will be shifted to accommodate for the delay in Cycle 1. During maintenance, maintain the original dosing schedule for subsequent doses. *Dose modifications during treatment*, [lef] *indications*, be administered as an intravenous push or bolus. Instructions on the rate of infusion are shown in List 4-5. List 4: CLL: Standard infusion rate in the absence of infusion related reactions/hypersensitivity and recommendations in case an IRR occurred with previous infusion Cycle, day of treatment, rate of (900mg): If no IRR occurred during the previous infusion, administer at 50 mg/hr. The rate of the infusion can be escalated in increments of 50 mg/hr every 30 minutes to a maximum rate of 400 mg/hr. If the patient experienced an IRR during the infusion, start with administration at 25 mg/hr. The rate of infusion can be escalated in increments up to 50 mg/hr every 30 minutes to a maximum of 400 mg/hr. Cyclet J, **DI** 50 (L000mg/) Cyc solic term of and the task of the main increased by 100 mg/m increases to a maximum of 400 mg/m. Using in every 30 minutes to a maximum of 400 mg/m. Using in every 30 minutes to a maximum of 400 mg/m. Using increased and increased by 100 mg/m every 30 minutes to a maximum of 400 mg/m. Using increases to a maximum of 400 mg (severe): Influsion must be temporally stopped and disput of the standard Upon resolution of Symptoms, the influsion can be restarted at no more than half the previous rate (the rate being used at the time that the IRR occurred) and symptoms treated. Upon resolution of Symptoms, the influsion rate escalation can resume at the intervals as appropriate for the treatment dose (see List 4-5). For CLL patients receiving the Day 1 (Cycle 1) dose split over two days, the Day 1 influsion rate may be increased back up to 25 mg/hr after 1 hour, but not increased further. The influsion must be stopped and therapy permanently discontinued if the patient dose (see List 4-5). For CLL patients receiving the Day 1 (Cycle 1) dose split over two days, the Day 1 influsion rate may be increased back up to 25 mg/hr after 1 hour, but not increased further. The influsion rate escalation can resume at the increments and intervals as appropriate for the treatment dose (see List 4-5). For CLL patients receiving the Day 1 (Cycle 1) dose split over two days, the Day 1 Influsion rate was be increased back up to 25 mg/hr after 1 hour, but not increased further. The influsion rate escalation can resume at the increments and intervals as appropriate for the treatment dose (see List 4-5). For CLL patients receiving the Day 1 (Cycle 1) dose split over the two days, the Day 1 Influsion rate was be increased back up to 25 mg/hr after 1 hour, but not increased further. **CONTRAINDICATIONS:** Hypersensitivity to the active substance or to any of the exciptionts. **SPECIAL WARNINGS AND PRECAUTIONS FOR USE:** In order to improve the traceability of biological medicinal products, the trade name and back up to of the administered product should be the store administered product should be the administered product should be the administered product should be the store administered product should be the store administered CONTRAINDICATIONS: Hypersensitivity to the active substance or to any of the excipents. SPECIAL WARNINGS AND PRECAUTIONS FOR USE: In order to improve the traceability of biological medicinal products, the trace main provides the autore substance or to any of the excipents. SPECIAL WARNINGS AND PRECAUTIONS FOR USE: In order to improve the traceability of biological medicinal products, the trace main provides the outer all products built be clearly recorded (or stated) in the patient file. Based on a subgroup analysis in previously untreated follicular lymphoma, the efficacy in FLIPI low risk (0-1) patients is currently inconclusive. A therapy choice for these patients should care humphorma (NHL) including FL; treatment and follow up for CLL in the three pivotal clinical studies: BO21004/CLL11 (N=781): Patients with previously untreated CLL, BO21223/GALLIUM (N=1390): Patients with previously untreated iNHL (86% of the patients had FL), GAO4753g/GADOLIN (N=392): Patients with intiximab or a triak investigated Gazyvaro in combination with chlorambucil for CLL and with bedamustine, CHD or CVP followed by Gazyvaro maintenance therapy for iNHL. The studies BO21223/GALLIUM and GAO4753g/GADOLIN (N=392): Patients with intik including FL. Therefore, in order to provide the most comprehensive safety information, the analysis of ADRs presented in the following has been performed on the entire study opulation (i.e. iNHL). List 6 summarises the ADRs of the prival studies (BO21004/CLL11), BO21203/GALLIUM GAO4753g/GADOLIN (N=1392): Patients with previously untreated influe contence of ≥ 2% compared to the relevant comparator arm in at least on prival studies (BO21004/CLL11), Patients with previously untreated influe contence of ≥ 2% compared to the relevant comparator arm in at least envire and advector and induces that the receiving Gazyvaro plus chlorambucil compared by rituximab maintenance in patients achieving a response, compared to rituximab plus chlorambucil study BO21024/CLL11), Patients with iNHL who had no response t chemotherapy followed by rituximab maintenance in patients achieving a response (study BO21223(ALLIUM), Patients with iNHL who had no response to or who progressed during or up to 6 months after treatment with rituximab-ontaining regimen receiving Gazyvaro plus bendamus-tine, followed by grazyvaro maintenance in some patients, compared to bendamustine alone (study GA04733g/GADULN). The incidences presented in List 6 (all grades and Grades 3-5) are the highest incidence of that ADR reported from any of the three studies. Frequencies are defined as very common (≥ 1/10), common (≥ 1/100 to < 1/10), uncommon (≥ 1/1000 to < 1/1000) and very rare (< 1/10,000). Thi me incidence of the alf frequency grouping, adverse reactions are presented in order of decreasing seriouness. List 6 Summary of ADRs reported with a higher incidence of (NHL) followed by Gazyvaro maintenance (iNHL)Grades 3-5[†] Gazyvaro + chemotherapy* (CLL, iNHL) followed by Gazyvaro maintenance (iNHL) Infections and infestations. Very common, all grades: Upper respiratory tract infection, namary tract infection, pneumonia¹ herpes zoster¹. Common, all grades: Grades 3-5[†] Grades 3-5[†] Grades 3-5[†] Grades 3-5[†], Saopharyngitis, infinitis, influenza, oral herpes. Hontis, pharyngitis, and unspecified (incl cysts and polyps). Common, all grades: squamous cell carcinoma of skin. Blood and **Imphatic system disorders**. Very common, all grades: Tumour lysis syndrome, hyperania, anaemia, leukopenia, anaemia, leukopenia, anaemia, leukopenia, anaemia, leukopenia, uncommon, grades 3-5[†]; hyperuricaemia, hypokalaemia Common, grades 3-5[†]; hyperurica mon, grades 3-5⁺; Headache. Psychiatrie disorders. Very common, all grades: Insomnia. Common, all grades: depression, anxiety. Eye disorders. Common, grades 3-5⁺; Insomnia, depression, anxiety. Eye disorders. Common, grades 3-5⁺; Common, grades 3-5⁺; Common, grades 3-5⁺; Insomnia, depression, anxiety. Eye disorders. Common, grades 3-5⁺; Common, grades 3-5⁺; Complexingel pain. Incommon, grades 3-5⁺; Cough. Common, grades 3-5⁺; Cough. C cough (15%), upper respiratory infections (12%), neutropenia (11%), sinustisti (10%), sinustisti (10%), infusion related reactions (8%), nausea (8%), fatigue (8%), bronchitis (7%), parkial (7%), pyrexia (6%), nasopharyngitisti (7%), pyrexia (6%), naturipenia (11%), institution in both studies. **Description of select-**er actions were neutropenia (10%), and anaemia, febrile neutropenia, thrombocytopenia, sepsis, upper respiratory tract infection (8%), nausea (8%), fatigue (8%), bronchitis (7%), arthralgia (7%), pyrexia (6%), nasopharyngitisti (7%), pyrexia (6%), pyrexia (6%), nasopharyngitisti (7%), pyrexia (6%), nasopharyngitisti (7 an IRR were nausea, vomiting, diarrhoea, headache, dizziness, fatigue, chills, pryexia, hypotension, flushing, hypertension, tachycardia, dyspnoea, and chest disconfort. Respiratory symptoms such as bronchospasm, larynx and throat irritation, wheezing, laryngeal oedema and cardiac symptoms such as atrial fibrillation have also been reported. Chronic Lymphocytic Leukaemia, The incidence of IRRs was higher in the Gazyvaro plus chlorambucil arm compared to the rituximab plus chlorambucil arm. The incidence of IRRs was 65% with the infusion of the first 1,000 mg of Gazyvaro (20% of patients) experiencing a Grade 34 IRR). Overall, 7% of patients experienced an IRR leading to discontinuation of Gazyvaro. The incidence of IRRs with subsequent infusions was 3% with the second 1,000 mg dose and 1% thereafter. No Grade 35 IRRs were reported beyond the first 1,000 mg infusions of Cycle 1 experience a vince of the force of the control of t motherapy, the incidence of IRRs was highest on Day 1 and gradually decreased with subsequent infusions. This decreasing trend continued during maintenance therapy with Gazyvaro alone. Beyond Cycle 1 the incidence of IRRs in subsequent infusions was comparable between the Gazyvaro and the relevant comparator arms. Overall, 3% of patients experienced an infusion related reaction leading to discontinuation of Gazyvaro. *Neutropenia and infections. <u>Chronic Lymphocytic Leukaenia</u>.* The incidence of IRRs in subsequent infusions was comparable between the Gazyvaro and the relevant comparator arms. Overall, 3% of patients experienced an infusion related reaction leading to discontinuation of Gazyvaro. *Neutropenia and infections. <u>Chronic Lymphocytic Leukaenia</u>.* The incidence of neutropenia was higher in the Gazyvaro plus chlorambucil arm (41%) compared to the rituximab plus chlorambucil arm with the neutropenia resolving spontaneously or with use of granulocyte-colony stimulating factors. The incidence of infection was 38% in the Gazyvaro plus chlorambucil arm (with Grade 35 events reported in 12% and 14%, respecpus information much many pass information of the set o neutropenia and late onset neutropenia was 33% and 7%, respectively. The incidence of infection was 81% in the Gazyvaro plus chemotherapy arm (with Grade 3-5 events reported in 22% of patients and fatal events reported in 3% of patients). Patients who received G-CSF prophylaxis had a lower rate of Grade 3-5 infections. Thrombocytopenia and haemorrhagic events Chronic Lymphocytic Leukaemia. The incidence of thrombocytopenia was higher in the Gazyvaro plus chlorambucil arm (15%) compared to the rituximab plus chlorambucil arm specially during the first cycle. Four percent of patients treated with Gazvvaro plus chlorambucil experienced acute thrombocvtonenia (occurring within 24 hours after the Gazvvaro infusion). The overall incidence of haemorrhaeic events was similar in the Gazvvaro treated arm and in the rituximab treated arm. The number of fatal haemorrhaeic events was treated with Gazyvaro plus chlorambucil experienced acute thrombocytopenia (occurring within 24 hours after the Gazyvaro infusion). The overall incidence of haemorrhagic events was similar in the Gazyvaro treated arm and in the rituximab treated arm. The number of fatal haemorrhagic events was balanced between the treatment arms; however, all of the events in patients treated with Gazyvaro puts chemotherapy arm. Thrombocytopenia occurred in tycle 1 A lear relationship between thrombocytopenia and haemorrhagic events was similar in the Gazyvaro treated arm and in the rituximab treated arm. The number of fatal haemorrhagic events was similar in the Gazyvaro puts chemotherapy arm. Thrombocytopenia acute thrombocytopenia was 14%. Thrombocytopenia occurred in tycle 1 in the Gazyvaro plus chemotherapy arm. Thrombocytopenia occurred in Cycle 1. Special populations. Elderly. Chronic Lymphocytic Lukaemia. In the pivotos 10004/CLL11 study, 46% (166 out of 336) of patients, respectively. While fatal haemorrhagic events was similar across all treatment arms. Haemorrhagic events was devente vents cocurred in L2% and 5% of patients, respectively. While fatal haemorrhagic events was or older (mediang to event han those patients in the Gazyvaro fatal holds) for fatients, respectively. While fatal haemorrhagic events or older (mediang to event han those patients or 75 years or older (mediang to event han those patients or 75 years or older (mediang to event han those patients or 75 years or age. *Renal impairment. Chronic Lymphora*. In the pivotal BO21004/CLL11 study, 27% (90 out of 336) of patients with a CLL 15 year and adverse events leading to death than patients 65 years or age. *Renal impairment. Chronic Lymphora*. In the pivotal BO21004/CLL11 study, 27% (90 out of 336) of patients with a CCl 2 30 mL/min (Neg Section 42, 4 and 52). Patients with a CCl 2 30 mL/min were excluded from the study. *Indolem Montadvers* events leading to eath than patients of 6400 and 8% (1200 DN bin in the odd). *Molechar Lymphora* in the fatil phoma. In the pivotal studies (B021223/GALLIUM, GA04735g/GAD0LIN) in iNHL, 5% (35 out of 698) and 9% (15 out of 194) of fatients treated with Gazyvaro, respectively, had moderate renal impairment (CrCL < 50 mL/min). These particulars experienced more serious adverse events, adverse events leading to death and adverse events leading to treatment withdrawal than patients with a CrCl < 50 mL/min. Patients with a CrCl < 40 mL/min were excluded from the studies. Additional safety information from clinical studies experience. Progressive multifocal leukoencephalopathy (PML). PML has been reported in patients treated with Gazvvaro. Henatitis B reactivation. Cases of henatitis B reactivation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation. Cases of eastro-intestinal perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvaro. Gastro-Intestinal Perforation have been reported in patients treated with Gazvaro. Gastro-Intestinal Perforation have been reported have been reported in patients tr been reported in patients treated with Gazyvaro. *Thepatits B reactivation*. Cases of hepatits B reactivation is a set of hepatits B reactivation in cases of hepatits B reactivation in Cases of a patients treated with Gazyvaro. Cases of gastro-intestinal performation in setting of a provide studies and the set of the setting in the set of the set of the set of the setting in the set of the se AUTHORISATION HOLDER. Roche Registration GmbH Emil-Barell-Strasse 1-79639 Grenzach-Wyhlen Germany. MARKETING AUTHORISATION VUMBER(S): EU/1/14/937/001. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION: 23/07/2014. DATE OF REVISION OF THE TEXT: 6 April 2018. Delivery on medical prescription. Detailed information on this medicinal product is available on the website of the European Medicines Agency <u>http://www.ema.europa.eu</u>. R.E. Dr. Chr. Lenaerts – BE/HAEM/0418/0026-16/04/2018.

Name of the medicinal product: MabThera 100 mg and MabThera 500 mg concentrate for solution for infusion. Qualitative and quantitative composition: Each mL contains 10 mg of rituximab. Each vial contains 100 mg or 500 mg of rituximab. Rituximab is a genetically engineered chimeric mouse/human monoclonal antibody representing a glycosylated immunoglobulin with human IgG1 constant regions and murine light-chain and heavy-chain variable region sequences. The antibody is produced by mammalian (Chinese hamster ovary) cell usupension culture and purified by affinity chromatography and ion exchange, including specific viral inactivation and removal procedures. Excipients with known effects: This medicinal product contains 2.3 mmol (52.6 mg) sodium per 10mL vial. Pharmaceutical form:

MabThera IV 100 mg: €170,0950* MabThera IV 500 mg: €847,0300*

Concentrate for solution for infusion. Clear, colourless liquid. **Therapeutic indications**: MabThera is indicated in adults for the following indications. *Nan-Hodgkin's lymphoma (NHL)*. MabThera is indicated for the treatment of previously untreated patients with stage III-IV follicular lymphoma in combination with chemotherapy. MabThera maintenance therapy is indicated for the treatment of follicular lymphoma patients responding to induction therapy. MabThera monotherapy is indicated for the treatment of patients with stage III-IV follicular lymphoma who are chemoresistant or are in their second or subsequent relapse after chemotherapy. MabThera is indicated for the treatment of patients with CD20 positive diffuse large B cell non-Hodgkin's lymphoma in combination with CHOP (cyclophosphamide, doxorubicin, vincristine, prednisolone) chemotherapy. Chronic lymphocytic leukaeniia (CLL), MabThera in combination with chemotherapy is indicated for the treatment of patients with previously untreated and relapsed/refractory CLL. Only limited data are available on efficacy and safety for patients previously treated with monoclonal antibodies including MabThera or patients refractory to previous Mab Thera plus chemotherapy. **Posology and method of administration**: MabThera should be administered under the close supervision of an extperienced healthcare professional, and in an environment where full resuscitation facilities are immediately available. Premedication considered if MabThera is not given in formation of MabThera. In patients with non-Hodgkin's lymphoma and CLL, premedication with deconsidered if MabThera is not given in Maintenance of the appropriate formation of t hterapy. Previously untreated follicular lymphoma. The recommended dose of MabThera used as a maintenance treatment for patients with previously untreated follicular lymphoma who have responded to induction treatment is: 375 mg/m² body surface area once every 2 months (starting 2 months after the last dose of induction therapy) until disease progression or for a maximum period of two years(12 infusions in total). *Relapsed/refractory follicular lymphoma*. The recommended dose of MabThera used as a maintenance treatment for patients with previously untreated follicular lymphoma. The recommended dose of MabThera used as a maintenance treatment for patients with previously untreated follicular lymphoma. The recommended dose of MabThera used as a maintenance treatment for patients with relapsed/refractory follicular lymphoma. The recommended dose of MabThera used as a maintenance treatment for patients with relapsed/refractory follicular lymphoma. The recommended dose of MabThera used as a maintenance treatment for patients with relapsed/refractory follicular lymphoma. The recommended dose of mabThera used as a maintenance treatment for patients with relapsed/refractory follicular lymphoma. The recommended dose of mabThera used as a maintenance treatment for patients with relapsed/refractory follicular lymphoma. The recommended dose of mabThera used as a maintenance treatment for patients with relapsed/refractory follicular lymphoma. The recommended dose of mabThera used as a maintenance treatment for patients with relapsed/refractory follicular lymphoma. The recommended dose of mabThera used as a maintenance treatment for patients with relapsed/refractory follicular lymphoma. The recommended dose of mabThera used as a maintenance treatment for patients with relapsed/refractory follicular lymphoma. The recommended dose of mabThera used as a maintenance treatment for patients with relapsed/refractory follicular lymphoma. The recommended dose of mabThera used as a maintenance treatment for patients with relapsed/re sion or for a maximum period of two years(8 infusions in total). <u>Monotherapy</u>. Relapsed/refractory follicular lymphoma. The recommended dose of MabThera monotherapy used as induction treatment for adult patients with stage III-IV follicular lymphoma who are chemoresistant or are in their second or subsequent relapse after chemotherapy is: 375 mg/m² body surface area, administered as an intravenous infusion once weekly for four weeks. For retreatment with MabThera monotherapy for patients who have responded to previous treatment with MabThera monotherapy for relapsed/refractory follicular lymphoma, the recommended dose is: 375 mg/m² body surface area, administered as an intravenous infusion once weekly for four weeks. Diffuse large B cell non-Hodgkin's lymphoma. MabThera should be used in combination with CHOP chemotherapy. The recommended dose is: 375 mg/m² body surface area, administered on day 1 of each chemotherapy cycle for 8 cycles after intravenous infusion of the glucocorticoi component of CHOP. Safety and efficacy of MabThera have not been established in combination with other chemotherapies in diffuse large B cell non-Hodgkin's lymphoma. Does eductions of MabThera have not been established in combination with other chemotherapies in diffuse large B cell non-Hodgkin's lymphoma. Does eductions of MabThera have not been established in combination with other chemotherapies in diffuse large B cell non-Hodgkin's lymphoma. Does eductions of MabThera have not been established in combination with other chemotherapies in diffuse large B cell non-Hodgkin's lymphoma. Does eductions of MabThera are recommended. When MabThera is given in combination with chemotherapy, standard dose reductions for the chemotherapeutic medicinal products should be applied. <u>Chronic lymphovtic leukaemia</u>. Prophylaxis with adequate hydration and administra-tion of uricostatics starting 48 hours prior to start of therapy is recommended for CLL patients to reduce the risk of tumour lysis syndrome. For CLL patients whose lymphocyte counts are >25 x 10^o/L it is recommended to administer prednisolone 100 mg intravenous shortly before infusion with MabThera to decrease the rate and severity of acute infusion reactions and/or cytokine release syntheme. The recommended dosage of MabThera in combination with chemotherapy for previously untreated and relapsed/refractory patients is 375 mg/m² body surface area administered on day 0 of the first treatment cycle followed by 500 mg/m² body surface area administered on day 1 of each subsequent cycle for 6 cycles in total. The chemotherapy should be given after MabThera infusion. Special populations. Paediatric populations. Paediatric populations. The safety and efficacy of MabThera in children below 18 years has not been established. No data are available. *Elderly*. No dose adjustment is required in elderly patients (aged >65 years). Method of administration. The prepared MabThera solution should be administered as an intravenous infusion through a dedicated line. It should not be administered as an intravenous push or bolus. Patients should be closely monitored for the onset of cytokine release syndrome. Patients who develop evidence of severe reactions, especially severe dyspnoea, bronchospasm or hypoxia should have the infusion interrupted immediately. Patients with non-Hodgkin's lymphoma should then be evaluated for evidence of tumour lysis syndrome including appropriate laboratory tates and, for pulmonary infiltration, with a chest X-ray. In all patients, the infusion socur for a second time, the decision to be intraully resumed at not more than one-half the previous rate. If the same severe adverse reactions occur for a second time, the decision to be treatment should be seriously considered on a case by case basis. Whild or moderate infusion related reactions (IRR) usually respond to a reduction in the rate of infusion. The infusion rate may be increased upon improvement of symptoms. First findsion, The recommended initial rate for infusion is 50 mg/h, after the first 30 minutes, it can be escalated in 50 mg/h increments every 30 minutes, to a maximum of 400 mg/h. Subsequent infusions, All indications. Subsequent does of MabThera can be infused at an initial rate of 100 mg/h, and increased by 100 mg/h increments at 30 minute intervals, to a maximum of 400 mg/h. Subsequent infusion. The infusion is 50 mg/h after the first 30 minutes, it can be escalated in 50 mg/h and increased by 100 mg/h increments at 30 minute intervals, to a maximum of 400 mg/h. Contraindications for use in non-Hodgkin's lymphoma and chronic lymphocytic leukaemia. Hypersensitivity to the active substance or to murine proteins, or to any of the other excipients. minute intervals, to a maximum of 400 mg/h. Contraindications. Contraindications for use in non-Hodgkin's lymphoma and chronic lymphocytic leukaemia_Hypersensitivity to the active substance or to murine proteins, or to any of the other excipients. Active, severe infections. Patients in a severely immunocompromised state. Special warnings and precautions for use in non-Hodgkin's lymphoma and chronic lymphocytic leukaemia_Hypersensitivity to the active substance or to murine proteins, or to any of the other excipients. Active, severe infections. Patients in a severely immunocompromised state. Special warnings and precautions for use in nor-Hodgkin's lymphoma and chronic lymphocytic leukaemia(LL). Summary of the safety profile of 0.52.6 mg.) sodium per 10 mL vial. To be taken into consideration by patients on a controlled sodium dict. Undesirable effects: Experience from non-Hodgkin's lymphoma and chronic lymphocytic leukaemia(CLL): Summary of the safety profile. The overall safety profile of MabThera in nonHodgkin's lymphoma and CLL is based on data from patients from clinical trials and from post-marketing surveillance. These patients were treated either with MabThera monotherapy (as induction treatment or maintenance treatment following induction treatment) or in combination with chemotherapy. The most frequent post-ord diverse drug reactions (ADRs) in patients were IRR reactions which occurred in the majority of patients during clinical trials in patients with NHL and in 30-50 % of patients during clinical trials in patients with NHL and in 30-50 % of patients during clinical events in with MapThera events. Proved events, other services and progressive multificeal leukaemia (CLL). The most frequent reported or observed serious adverse drug reactions were IRR (including cytokine-release synthemating in patients with NHL and in 30-50 % of patients during clinical trials in patients with NHL and in 30-50 % of patients during clinical bepatients. Provede and progressive multificeal leukaemia (CLL). The most freque Infectious events (predominantly bacternal and viral) occurred in approximately 305.5% of patients during clinical traits in patients with NHL and in 30-50% of patients during clinical traits in patients with chronic lymphate leakema (LLL). List of adverse are accions were IRK (including cytokim-release syndrome), interoitons, cardiovascular events, other serious ADRs reported in clinical traits in patients with chronic lymphate leakema (LLL). List of adverse are accions were IRK (including cytokim-release syndrome), interoitons of in combination with chemotherapy are summarised hereunder. Within each frequency grouping, undesirable effects are presented in or in combination with chemotherapy are summarised hereunder. Within each frequency grouping, undesirable effects are presented in or in combination with chemotherapy are summarised hereunder. Within each frequency grouping, undesirable effects are presented in or observations (LL 1/10,000 to <1/100), very rare (<1/10,000 to <1/100), very rare (<1/10,000 to <1/100), individual (LL 1/100), rate (LL 1/100), ra various times up to several months after completion of MabThera therapy. ⁶ Observed mainly in patients with prior cardiac condition and/or cardiotoxic chemotherapy and were mostly associated with infusion-related reactions. ⁷ Includes fatal cases.). The following terms have been reported as adverse events during clinical trials, however, were reported at a similar or lower incidence in the MabThera arms compared to control arms: haematotoxicity, neutropenic infection, urinary tract infection, sensory disturbance, pyrexia. Signs and symptoms suggestive of an infusion-related reaction were reported in more than 50 % of patients in clinical trials involving MabThera intravenous formulation, and were predominantly seen during the first infusion, usually in the first one to two hours. These symptoms mainly comprised fever, chills and rigors. Other symptoms included flushing, angioedema, bronchospasm, hypotension) occurred in up to 12 % of the cases. Addition, there reversible thrombocytopenia. Exacerbations of pre-existing cardiac conditions such as angina pectoris or congestive heart failure or severe cardiac disorders (heart failure, myocardial infarction, atrial fibrillation), pulmonary oedema and acute reversible thrombocytopenia. Exacerbations of pre-existing cardiac conditions such as angina pectoris or congestive heart failure or severe cardiac disorders (heart failure, myocardia infarction, atrial fibrillation), pulmonary oedema, multi-organ failure, tumour lysis syndrome, cytokine release syndrome, renal failure, and respiratory failure were reported at lower or unknown frequencies. The incidence of infusion-related symptoms decreased substantially with decreased serum immunglobulins only in a minority of patients. Localized candida infections are zoster were reported at a higher incidence in the MabThera maintenance treatment up to 2 years when compared to observation. There was no cumulative toxicity in terms of infections reported over a 2-year treatment period. In addition, other serous viral infect MabThera in combination with chemotherapy or as part of a haematopoetic stem cell transplant. Examples of these serious viral infections are infections caused by the herpes viruses (Cytomegalovirus, Varicella Zoster Virus and Herpes Simplex Virus), JC virus (PML) and hepatitis C virus. Cases of fatal PML that occurred after disease progression and retreatment have also been reported in clinical trials. Cases of hepatitis B reactivation, have been reported, the majority of which were in patients receiving MabThera in combination with cytotoxic chemotherapy. In patients with relapsed/refractory CLL, the incidence of grade 3/4 hepatitis B infection (reactivation and primary infection) was 2% in R-FC vs 0% FC. Progression of Kaposi's sarcoma has been observed in MaDThera-exposed patients with pre-existing Kaposi's sarcoma. These cases occurred in non-approved indications and the majority of patients were HIV positive. *Haematologica alverse reactions*. In clinical trials with MaDThera monotherapy given for 4 weeks, haematological abnormalities occurred in a minority of patients and were usually mild and reversible. Severe (grade 3/4) neutropenia was reported in 4.2%, anaemia in 1.1% and thrombocytopenia in 1.7% of the patients. During MaDThera monotherapy maintenance treatment for up to 2 years, leucopoenia (5% vs. 2%, grade 3/4) and neutropenia (10% vs. 4%, grade 3/4) were reported at a higher incidence when compared to observation. The incidence when compared to observation. of thrombocytopenia was low (<1%, grade 3/4) and was not different between treatment arms. During the treatment curves in studies with MabThera in combination with chemotherapy, grade 3/4 leucopenia (R-CHOP 88% vs. CHOP 79%, R-FC 23% vs. FC 12%), neutropenia (R-CVP 24% vs. CVP 14%; R-CHOP 88%, R-FC 30% vs. FC 19% in previously untreated CLL), pancytopenia (R-FC 3% vs. FC 1% in previously untreated CLL) were usually reported with higher frequencies when compared to chemotherapy grade. However, the higher incidence of neutropenia in patients treated with MabThera and chemotherapy was not associated with a higher incidence of infections and infestations compared to patients treated with chemotherapy alone. Stud-12%), neutropema (RC-VP 24% vs. CVP 14%; RC-HOP 35%, RC-FC 30% vs. FC 19% in previously untreated CL1), parcytopema (RC-VP 24% vs. FC 19% in previously untreated CL1), were usually reported with higher frequencies when compared to chemotherapy alone. Stud-ies in previously untreated and relapsed/refractory CLL have established that in up to 25% of patients treated with NAbThera not chemotherapy as no associated with a higher incidence of incidence of patients treated with MabThera patients with no previous prolonged neutropenia owars prolonged neutropenia owars prolonged neutropenia owars protoned neutropenia previous protoned to 9% of patients in the R-FC arm compared to the FC arm (R-FC 83% vs. FC 1%). In the relapsed/refractory CLL study grade 3/4 thrombocytopenia was reported in 11% of patients in the R-FC group compared to 9% of patients in the R-FC arm compared to the CCL and symparenticular tachycardia) and angina pectoris during infusion were reported. Juring maintenance treatment, the incidence of grade 3/4 cardiac disorders was comparable between patients treated with MabThera and observation. Cardiac events were reported as serious adverse events (including ventricular failts), proceeding atria fibripilitation, myocardial infaction preventicular failts, myocardial ischema in 3% of patients treated with MabThera and observation. In studies eval maintegrade were reported as serious adverse vents (including atria fibripilitation, myocardial infaction, preventicular failty, myocardial infaction or pre-existing respiratory and cardiovascular disease. No difference between the R-CHOP and CHOP group (9 apprev evaluating MabThera maintenance treatment in relapsed/refractory follicular lymphoma, median IgG levels were below the lower limit of normal (LLN) ($\leq 7 gL$) after induction treatment in both the observation and the MabThera groups. In the observation group, the median IgG levels subsequently increased to above the LLN, but remained constant in the MabThera group. The proportion of patients with IgG levels below the LLN was about 60% in the MabThera, in some cases severe and requiring long-term immunoglobulina emits have been observation group (36% after 2 years). A small number of spontaneous and literature cases of hypogammaglobulinament have been observation group (36% after 2 years). A small number of spontaneous and literature cases of hypogammaglobulinament have been observation group (36% after 2 years). A small number of spontaneous and literature cases of hypogammaglobulinament have been observation group (36% after 2 years). A small number of spontaneous and literature cases of hypogammaglobulinament have been observation group (36% after 2 years). A small number of spontaneous and literature cases of hypogammaglobulinament have been observation group (36% after 2 years). A small number of spontaneous and literature cases of hypogammaglobulinament have been observation group (36% after 2 years). A small number of spontaneous and literature cases of hypogammaglobulinament have been observation group (36% after 2 years). A small cases were and requiring long-term immunoglobulin with still subpopulations (*MabThera monoherapy*): Elderly patients (\geq 65 years); the incidence of ADRs of any grade and grade 3/4 ADR is patients with bulky disease than in patients without bulky disease (25.6 % vs. 15.4 %). The incidence of ADRs of any grade and grade 2 /4 ADRs in patients (\leq 5 years); The incidence of grade 3/4 DRs in patients (\leq 5 years); The incidence of grade and Reporting suspected adverse reactions after authorisation of the medicinal product is amportant. In allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions. Belgium: Federala agentscheap voor geneesmiddelen en gezondheidsproducten/ Agence Fédérale des médicinaents de sanké. Afdeling Vigilantiej, Vigilantee; EUROSTATION II, Victor Hortaplein/Place Victor Horta, 40/ 40, B-1060 Brussel/Bruxelles,website/ site internet: www.fagg.be, www.afmps.be, e-mail: adversedrugreactions@fagg-afmps.be. Luxembourg : Direction de la Santé – Division de la Pharmacie et des Médicaments villa Louvigny – Allée Marconi, L-2120 Luxembourg, site internet: http://www.ms.public.lu/fr/activites/pharmacie-medicament/index.html. Marketing authorisation holder: Roche Registration GmbH Emil-Barell-Strasse 1- 79639 Grenzach-Wyhlen Germany. Marketing authorisation numbers: For 100mg: EU/1/98/067/001. For 500mg: EU/1/98/067/002. Date of first autorisation: 20/6/1/98. Date of Itest renewai: 02/06/2008. Date of revision of the text: 26 April 2018. On prescription. Detailed information on this medicinal product is available on the website of the European Medicines Agency (http://www.ema.europa.eu). R.E. Dr Chr. Lenaerts - BE/HAEM/0518/0030-28/05/2018

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