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# PHESGO®

## Pertuzumab and trastuzumab



Information as set forth in this label only applies to Phesgo

### 1. DESCRIPTION

#### 1.1 THERAPEUTIC/PHARMACOLOGIC CLASS OF DRUG

Antineoplastic agents, recombinant humanized IgG1 monoclonal antibodies.

ATC code: L01XY02.

#### 1.2 TYPE OF DOSAGE FORM

Solution for subcutaneous injection.

#### 1.3 ROUTE OF ADMINISTRATION

Subcutaneous injection.

#### 1.4 STERILE/RADIOACTIVE STATEMENT

Sterile product.

#### 1.5 QUALITATIVE AND QUANTITATIVE COMPOSITION

Active ingredient(s): pertuzumab, trastuzumab.

Phesgo is a clear to opalescent solution, colourless to slightly brownish solution supplied in sterile, preservative-free, nonpyrogenic single-dose vials.

Single-dose vials contain:

- 1200 mg pertuzumab/600 mg trastuzumab/15 mL solution in a vial
- 600 mg pertuzumab/600 mg trastuzumab/10 mL solution in a vial

Excipients: Phesgo contains vorhydrinase alfa (recombinant human hyaluronidase rHuPH20), an enzyme used to increase the dispersion and absorption of co-formulated drugs when administered subcutaneously. All other excipients are L-histidine, L-histidine hydrochloride monohydrate, α,α-trehalose dehydrate, polysorbate 20, L-methionine, water for injection.

### 2. CLINICAL PARTICULARS

#### 2.1 THERAPEUTIC INDICATION(S)

##### Metastatic Breast Cancer

Phesgo is indicated in combination with docetaxel for patients with HER2-positive metastatic or locally recurrent unresectable breast cancer whose disease has relapsed after adjuvant therapy.

##### Early Breast Cancer (EBC)

Phesgo is indicated in combination with chemotherapy for the neoadjuvant treatment of patients with HER2-positive, locally advanced, inflammatory, or early stage breast cancer at high risk of recurrence (node positive or > 2 cm in diameter).

Phesgo is indicated in combination with chemotherapy for the adjuvant treatment of patients with HER2-positive early breast cancer at high risk of recurrence given by the presence of positive lymph nodes (see section 3.1.2 Clinical/Efficacy Studies).

#### 2.2 DOSAGE AND ADMINISTRATION

##### Patient Selection

Patients treated with Phesgo should have HER2-positive tumor status, defined as a score of 3+ by immunohistochemistry (IHC) or a ratio of ≥ 2.0 by in situ hybridization (ISH), assessed by a validated test.

To ensure accurate and reproducible results, the testing must be performed in a specialized laboratory, which can ensure validation of the testing procedures.

For full instructions on assay performance and interpretation, please refer to the package inserts of validated HER2 testing assays.

##### Administration of Phesgo

Phesgo therapy should only be administered under the supervision of a health care professional experienced in the treatment of cancer patients.

Substitution by any other biological medicinal product requires the consent of the prescribing physician.

Patients currently receiving intravenous pertuzumab and trastuzumab can switch to Phesgo.

Switching treatment from intravenous pertuzumab and trastuzumab to Phesgo (or vice versa) was investigated in study MO40628 (see section 2.6.1 Undesirable Effects and section 3.1.2 Clinical/Efficacy Studies).

In order to prevent medication errors, it is important to check the vial labels to ensure that the drug being prepared and administered is Phesgo.

Phesgo is for subcutaneous (SC) use in the thigh only. Do not administer intravenously.

**Metastatic and Early Breast Cancer**  
For Phesgo dose recommendations in early and metastatic breast cancer refer to Table 1.

#### Table 1 Phesgo recommended dosing and administration

	Dose (irrespective of body weight)	Approximate duration of SC injection	Observation time <sup>a, b</sup>
Loading dose	1200 mg pertuzumab/600 mg trastuzumab	8 minutes	30 minutes
Maintenance dose (every 3 weeks)	600 mg pertuzumab/600 mg trastuzumab	5 minutes	15 minutes

<sup>a</sup> Patients should be observed for injection-related and hypersensitivity reactions.

<sup>b</sup> Observation period should start following administration of Phesgo and be completed prior to any subsequent administration of chemotherapy.

In patients receiving intravenous pertuzumab and trastuzumab with < 6 weeks since their last dose, Phesgo should be administered as a maintenance dose of 600 mg

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pertuzumab/600 mg trastuzumab and every 3 weeks for subsequent administrations. In patients receiving intravenous pertuzumab and trastuzumab with ≥ 6 weeks since their last dose, Phesgo should be administered as a loading dose of 1200 mg pertuzumab/600 mg trastuzumab, followed by a maintenance dose of 600 mg pertuzumab/600 mg trastuzumab every 3 weeks for subsequent administrations.

The injection site should be alternated between the left and right thigh only. New injections should be given at least 1 inch/2.5 cm from the previous site on healthy skin and never into areas where the skin is red, bruised, tender, or hard. Do not split the dose between two syringes or between two sites of administration. During the treatment course with Phesgo, other medications for SC administration should preferably be injected at different sites.

In patients receiving a taxane, Phesgo should be administered prior to the taxane. When administered with Phesgo, the recommended initial dose of docetaxel is 75 mg/m<sup>2</sup>.

In patients receiving an anthracycline-based regimen, Phesgo should be administered following completion of the entire anthracycline regimen.

##### Early Breast Cancer (EBC)

In the neoadjuvant setting (before surgery), it is recommended that patients are treated with Phesgo for three to six cycles depending on the regimen chosen in combination with chemotherapy (see section 3.1.2 Clinical/Efficacy Studies).

In the adjuvant setting (after surgery), Phesgo should be administered for a total of one year (maximum 18 cycles or until disease recurrence, or unmanageable toxicity, whichever occurs first), as part of a complete regimen for early breast cancer, including standard anthracycline- and/or taxane-based chemotherapy. Phesgo treatment should start on Day 1 of the first taxane-containing cycle and should continue even if chemotherapy is discontinued (see section 3.1.2 Clinical/Efficacy Studies).

Patients who start Phesgo in the neoadjuvant setting and have positive nodes before the start of their treatment should continue to receive adjuvant Phesgo to complete one year of treatment (maximum 18 cycles).

##### Metastatic Breast Cancer (MBC)

Phesgo should be administered in combination with docetaxel until disease progression or unmanageable toxicity. Treatment with Phesgo may continue even if treatment with docetaxel is discontinued.

##### Delayed or Missed Doses

If the time between two sequential doses is less than 6 weeks, the 600 mg pertuzumab/600 mg trastuzumab maintenance dose of Phesgo should be administered as soon as possible. Do not wait until the next planned dose.

If the time between two sequential injections is 6 weeks or more, the loading dose of 1200 mg pertuzumab/600 mg trastuzumab should be readministered followed by the maintenance dose of 600 mg pertuzumab/600 mg trastuzumab every 3 weeks thereafter.

##### Dose Modifications

No dose reductions of Phesgo are recommended.

For chemotherapy dose modifications, see relevant prescribing information.

##### Injection-related reactions

The injection should be slowed or paused if the patient experiences injection-related symptoms (see section 2.4 Warnings and Precautions).

##### Hypersensitivity reactions/anaphylaxis

Patients should be observed closely for hypersensitivity reactions. Although severe hypersensitivity reactions, including anaphylaxis and events with fatal outcomes, have not been observed in patients treated with Phesgo, caution should be exercised as these have been associated with intravenous Perjeta in combination with Herceptin and chemotherapy (see section 2.2 Dosage and Administration). Medications to treat such reactions, as well as emergency equipment, should be available for immediate use. Phesgo is contraindicated in patients with known hypersensitivity to pertuzumab, trastuzumab, or to any of its excipients (see section 2.3 Contraindications).

**Embryo fetal toxicity**  
Exposure to pertuzumab and trastuzumab can result in embryo-fetal death and birth defects. Studies in animals have resulted in oligohydramnios, delayed renal development, and death. Advise patients of these risks and the need for effective contraception.

##### Febrile neutropenia

Patients treated with pertuzumab, trastuzumab and docetaxel are at increased risk of febrile neutropenia compared with patients treated with placebo, Herceptin and docetaxel, especially during the first 3 cycles of treatment (see section 2.6 Undesirable Effects). In the CLEOPATRA trial in metastatic breast cancer, nadir neutrophil counts were similar in Perjeta-treated and placebo-treated patients. The higher incidence of febrile neutropenia in Perjeta-treated patients was associated with the higher incidence of mucositis and diarrhoea in these patients. Symptomatic treatment for mucositis and diarrhoea should be considered. No events of febrile neutropenia were reported after cessation of docetaxel.

##### Diarrhoea

Phesgo may elicit severe diarrhoea. Diarrhoea is most frequent during concurrent administration with taxane therapy. Elderly patients (> 65 years) may have a higher risk of diarrhoea compared with younger patients (< 65 years). Treat diarrhoea according to standard practice and guidelines. Early intervention with loperamide, fluids and electrolyte replacement should be considered, particularly in elderly patients, and in case of severe or prolonged diarrhoea. Interruption of treatment with Perjeta should be considered if no improvement in the patient's condition is achieved. When the diarrhoea is under control treatment with Perjeta may be reinstated.

##### Pulmonary event

Severe pulmonary events have been reported with the use of trastuzumab in the postmarketing setting. These events have occasionally been fatal. In addition, cases of interstitial lung disease including lung infiltrates, acute respiratory distress syndrome, pneumonia, pneumonitis, pleural effusion, respiratory distress, acute pulmonary edema and respiratory insufficiency have been reported. Risk factors associated with interstitial lung disease include prior or concomitant therapy with other antineoplastic therapies known to be associated with it such as taxanes, gemcitabine, vinorelbine and radiation therapy. These events may occur as part of an infusion-related reaction or with a delayed onset. Patients experiencing dyspnoea at rest due to complications of advanced malignancy and comorbidities may be at increased risk of pulmonary events. Therefore, these patients should not be treated with Phesgo. Caution should be exercised for pneumonitis, especially in patients being treated concomitantly with taxanes.

##### 2.3 CONTRAINDICATIONS

Phesgo is contraindicated in patients with a known hypersensitivity to pertuzumab, trastuzumab or any of the excipients.

##### 2.4 WARNINGS AND PRECAUTIONS

###### 2.4.1 General

In order to improve traceability of biological medicinal products, the trade name and the batch number of the administered product should be clearly recorded (or stated) in the patient file.

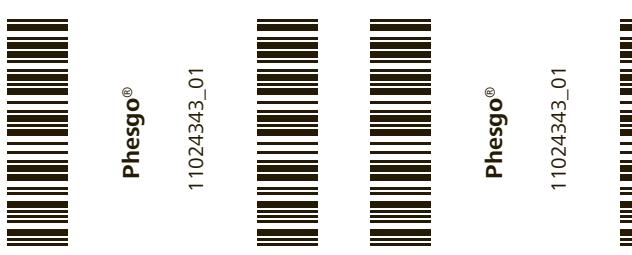
###### 2.4.2 Left ventricular dysfunction

Decreases in LVEF have been reported with drugs that block HER2 activity, including pertuzumab and trastuzumab. The incidence of symptomatic left ventricular systolic dysfunction (LVD (congestive heart failure)) was higher in patients treated with Perjeta in combination with Herceptin and chemotherapy. In the adjuvant setting, the majority of cases of symptomatic heart failure reported were in patients who received anthracycline-based chemotherapy (see 2.6 Undesirable Effects). Patients who have received prior anthracyclines or prior radiotherapy to the chest area may be at higher risk of LVEF decreases based on studies with intravenous Perjeta in combination with Herceptin and chemotherapy.

**2.4.3 Drug Abuse and Dependence**  
There is no evidence that Phesgo has the potential for drug abuse and dependence.

###### 2.4.4 Ability to Drive and Use Machines

Phesgo has a minor influence on the ability to drive and use machines. Injection-related reactions and dizziness may occur during treatment with Phesgo (see sections 2.4 Warnings and Precautions and 2.6 Undesirable Effects).



### 2.5 USE IN SPECIAL POPULATIONS

#### 2.5.1 Females and Males of Reproductive Potential

**Fertility**  
No specific fertility studies in animals have been performed to evaluate the effects of Phesgo.

Specific fertility studies in animals have been performed to evaluate the effect of pertuzumab. No adverse effects on male and female reproductive organs were observed in repeat-dose toxicity studies of pertuzumab for up to six month duration in cynomolgus monkeys (see section 3.3.3 Impairment of Fertility).

Reproduction studies conducted in cynomolgus monkeys with trastuzumab revealed no evidence of impaired fertility in female cynomolgus monkeys (see section 3.3.3 Impairment of Fertility).

#### Contraception

Women of childbearing potential including those who are partners of male patients should use effective contraception during treatment with Phesgo and for 7 months following the last dose of Phesgo.

#### 2.5.2 Pregnancy

Phesgo should be avoided during pregnancy unless the potential benefit for the mother outweighs the potential risk to the fetus.

No clinical studies of Phesgo in pregnant women have been performed. Perjeta administered intravenously to cynomolgus monkeys during organogenesis led to oligohydramnios, delayed renal development and embryo fetal death (see section 3.4 Reproductive Toxicity). In the postmarketing setting for Herceptin, cases of fetal renal growth and/or function impairment in association with oligohydramnios, some of which resulted in fatal pulmonary hypoplasia of the fetus, have been reported in pregnant women.

Based on the aforementioned animal studies and postmarketing data, Phesgo has the potential to cause fetal harm when administered to a pregnant woman. Women who become pregnant should be advised of the possibility of harm to the fetus. If a pregnant woman is treated with Phesgo, or if a patient becomes pregnant while receiving Phesgo or within 7 months following the last dose of Phesgo, close monitoring by a multidisciplinary team is desirable.

#### Labor and Delivery

The safe use of Phesgo during labor and delivery has not been established.

#### 2.5.3 Lactation

As human IgG is excreted in human milk, and the potential for absorption and harm to the infant is unknown, women should be advised to discontinue nursing during Phesgo therapy and for 7 months after the last dose of Phesgo.

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**Description of selected adverse drug reactions from clinical trials****Phesgo****Left ventricular dysfunction**

In the CLEOPATRA, the incidence of symptomatic heart failure (NYHA class III or IV) with a LVEF decline of at least 10%-points from baseline and to < 50% was 0.4% of Phesgo-treated patients vs 0% of intravenous Perjeta and Herceptin-treated patients. Of the patients who experienced symptomatic heart failure, all Phesgo-treated patients had recovered (defined as 2 consecutive LVEF measurements above 50%) at the data cutoff. Asymptomatic or mildly symptomatic (NYHA class II) declines in LVEF of at least 10%-points from baseline and to < 50% (confirmed by secondary LVEF) were reported in 0.4% of Phesgo-treated patients and 0.8% of intravenous Perjeta and Herceptin-treated patients, of whom none of the Phesgo-treated patients or intravenous Perjeta and Herceptin-treated patients had recovered at the data cutoff.

**Injection/infusion-related reactions**

In FEDERICA, an injection/infusion-related reactions was defined as any systemic reaction reported within 24 hours of Phesgo or intravenous Perjeta in combination with Herceptin administration. Injection-related reactions were reported in 1.2% of Phesgo-treated patients and infusion-related reactions were reported in 10.3% of intravenous Perjeta and Herceptin-treated patients.

Injection site reactions (defined as any local reaction reported within 24 hours of Phesgo) were reported in 12.9% of Phesgo-treated patients and were all Grade 1 or 2 events.

**Hypersensitivity reactions/anaphylaxis**

In FEDERICA, the overall frequency of hypersensitivity/anaphylaxis reported events related to HER2-targeted therapy was 1.6% in both the Phesgo-treated patients and intravenous Perjeta and Herceptin-treated patients, of which none were NCI-CTCAE (version 4) Grade 3-4 (see section 2.4 Warnings and Precautions).

**Laboratory abnormalities**

In FEDERICA, the incidence of NCI-CTCAE Grade 3-4 decreases in neutrophil counts were balanced in the Phesgo and intravenous Perjeta and Herceptin groups.

**Intravenous Perjeta and Herceptin**

In CLEOPATRA, the incidence of LVD during study treatment was higher in the placebo-treated group than the Perjeta-treated group (8.6% and 6.6%, respectively). The incidence of symptomatic LVD was also lower in the Perjeta-treated group (1.8% in the placebo-treated group vs 1.5% in the Perjeta-treated group) (see section 2.4 Warnings and Precautions).

In NEOSPHERE, in which patients received four cycles of Perjeta as neoadjuvant treatment, the incidence of LVD (during the overall treatment period) was higher in the Perjeta, Herceptin and docetaxel-treated group (7.5%) compared to the Herceptin and docetaxel-treated group (1.9%). There was one case of symptomatic LVD in the Perjeta and Herceptin-treated group.

In TRYPHENA, the incidence of LVD (during the overall treatment period) was 8.3% in the group treated with Perjeta plus Herceptin and 5-fluorouracil, epirubicin and cyclophosphamide (FEC) followed by Perjeta plus Herceptin and docetaxel; 9.3% in the group treated with Perjeta and Herceptin and docetaxel following FEC; and 6.6% in the group treated with Perjeta in combination with TCH. The incidence of symptomatic LVD (congestive heart failure) was 1.3% in the group treated with Perjeta plus Herceptin and docetaxel following FEC (this excludes a patient that experienced symptomatic LVD during FEC treatment prior to receiving Perjeta plus Herceptin and docetaxel) and also 1.3% in the group treated with Perjeta in combination with TCH. No patients in the group treated with Perjeta plus Herceptin and FEC followed by Perjeta plus Herceptin and docetaxel experienced symptomatic LVD.

In the neoadjuvant period of the BERENICE trial, the incidence of NYHA Class III/IV symptomatic LVD (congestive heart failure according to NCI-CTCAE v.4) was 1.5% in the group treated with dose dense AC followed by Perjeta plus Herceptin and paclitaxel and none of the patients (0%) experienced symptomatic LVD in the group treated with FEC followed by Perjeta in combination with Herceptin and docetaxel. The incidence of asymptomatic LVD (PT ejection fraction decrease according to NCI-CTCAE v.4) was 7% in the group treated with dose dense AC followed by Perjeta plus Herceptin and paclitaxel and 3.5% in the group treated with FEC followed by Perjeta plus Herceptin and docetaxel.

In APHINITY, the incidence of symptomatic heart failure (NYHA class III or IV) with a LVEF decline of at least 10%-points from baseline and to < 50% was < 1% (0.6% of pertuzumab-treated patients vs 0.2% of placebo-treated patients). Of the patients who experienced symptomatic heart failure, 46.7% of pertuzumab-treated patients and 66.7% of placebo-treated patients had recovered (defined as 2 consecutive LVEF measurements above 50%) at the data cutoff. The majority of the events were reported in anthracycline-treated patients.

Asymptomatic or mildly symptomatic (NYHA class II) declines in LVEF of at least 10%-points from baseline and to < 50% were reported in 2.7% of pertuzumab-treated patients and 2.8% of placebo-treated patients, of whom 79.7% of pertuzumab-treated patients and 80.6% of placebo-treated patients had recovered at the data cutoff.

**Infusion-related reactions**

An infusion-related reactions was defined in the pivotal trials as any event reported as hypersensitivity, anaphylactic reaction, acute infusion reaction or cytokine release syndrome occurring during an infusion or on the same day as the infusion. In CLEOPATRA, the initial dose of Perjeta was given the day before Herceptin and docetaxel to allow for the examination of Perjeta associated reactions. On the first day when only Perjeta was administered, the overall frequency of infusion-related reactions was 9.8% in the placebo-treated group and 13.2% in the Perjeta-treated group, with the majority of reactions being mild or moderate. The most common infusion-related reactions (≥ 1.0%) in the Perjeta-treated group were pyrexia, chills, fatigue, headache, asthenia, hypersensitivity, and vomiting.

During the second cycle when all drugs were administered on the same day, the most common infusion related reactions (≥ 1.0%) in the Perjeta-treated group were fatigue, drug hypersensitivity, dysgeusia, hypersensitivity, myalgia, and vomiting (see section 2.4 Warnings and Precautions).

In neoadjuvant and adjuvant trials, Perjeta was administered on the same day as the other study treatment drugs. Infusion-related reactions occurred in 18.6%-25.0% of patients on the first day of Perjeta administration (in combination with Herceptin and chemotherapy). The type and severity of events were consistent with those observed in CLEOPATRA, with a majority of reactions being mild or moderate.

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**Hypersensitivity/anaphylaxis**

In the CLEOPATRA, the overall frequency of hypersensitivity/anaphylaxis reported events was 9.3% in the placebo-treated patients and 11.3% in the Perjeta-treated patients, of which 2.5% and 2.0% were NCI-CTCAE (version 3) Grade 3-4, respectively. Overall, 2 patients in placebo-treated group and 4 patients in the Perjeta-treated group experienced anaphylaxis (see section 2.4 Warnings and Precautions).

Overall, the majority of hypersensitivity reactions was mild or moderate in severity and resolved upon treatment. Based on modifications made to study treatment, most reactions were assessed as secondary to docetaxel infusions.

In neoadjuvant and adjuvant trials, hypersensitivity/anaphylaxis events were consistent with those observed in CLEOPATRA. In NEOSPHERE, two patients in the Perjeta and docetaxel-treated group experienced anaphylaxis. In both TRYPHENA and APHINITY, the overall frequency of hypersensitivity/anaphylaxis was highest in the Perjeta and TCH treated group (13.2% and 7.6% respectively), of which 2.6% and 1.3% of events, respectively were NCI-CTCAE Grade 3-4.

**Febrile neutropenia**

In the CLEOPATRA, the majority of patients in both treatment groups experienced at least one leukopenic event (63.0% of patients in the Perjeta-treated group and 58.3% of patients in the 12 placebo-treated group), of which the majority were neutropenic events (see section 2.4 Warnings and Precautions). Febrile neutropenia occurred in 13.7% of Perjeta-treated patients and 7.6% of placebo-treated patients. In both treatment groups, the proportion of patients experiencing febrile neutropenia was highest in the first cycle of therapy and declined steadily thereafter. An increased incidence of febrile neutropenia was observed among Asian patients in both treatment groups compared with patients of other races and from other geographic regions. Among Asian patients, the incidence of febrile neutropenia was higher in the Perjeta-treated group (25.8%) compared with the placebo-treated group (11.3%).

In the NEOSPHERE trial, 8.4% of patients treated with neoadjuvant Perjeta, Herceptin and docetaxel experienced febrile neutropenia compared with 7.5% of patients treated with Herceptin and docetaxel. In the TRYPHENA trial, febrile neutropenia occurred in 17.1% of patients treated with neoadjuvant Perjeta + TCH, and 9.3% of patients treated with neoadjuvant Perjeta, Herceptin and docetaxel following FEC. In TRYPHENA, the incidence of febrile neutropenia was higher in patients who received six cycles of Perjeta compared with patients who received three cycles of Perjeta, independent of the chemotherapy given. As in the CLEOPATRA trial, a higher incidence of neutropenia and febrile neutropenia was observed among Asian patients compared with other patients in both neoadjuvant trials. In NEOSPHERE, 8.3% of Asian patients treated with neoadjuvant Perjeta, Herceptin and docetaxel experienced febrile neutropenia compared with 4.0% of Asian patients treated with neoadjuvant Herceptin and docetaxel.

In the APHINITY trial, febrile neutropenia occurred in 12.1% of Perjeta-treated patients and 11.1% of placebo-treated patients. As in the CLEOPATRA, TRYPHENA, and NEOSPHERE trials, a higher incidence of febrile neutropenia was observed among Perjeta-treated Asian patients compared with other races in the APHINITY trial (15.9% of Perjeta-treated patients and 9.9% of placebo-treated patients).

**Diarrhoea**  
In the CLEOPATRA, in metastatic breast cancer, diarrhoea occurred in 68.4% of Perjeta-treated patients and 48.7% of placebo-treated patients (see section 2.4 Warnings and Precautions). Most events were mild to moderate in severity and occurred in the first few cycles of treatment. The incidence of NCI-CTCAE Grade 3-4 diarrhoea was 9.3% in Perjeta-treated patients vs 5.1% in placebo-treated patients. The median duration of the longest episode was 18 days in Perjeta-treated patients and 8 days in placebo-treated patients. Diarrhoeal events responded well to proactive management with anti-diarrhoeal agents.

In the NEOSPHERE trial, diarrhoea occurred in 45.8% of patients treated with neoadjuvant Perjeta, Herceptin and docetaxel compared with 33.6% of patients treated with Herceptin and docetaxel. In the TRYPHENA trial, diarrhoea occurred in 9.8% of patients in the Perjeta arm vs 3.7% in the placebo arm. The majority of the reported events were Grade 1 or 2 in severity. The highest incidence of diarrhoea (all Grades) was reported during the targeted therapy+taxane chemotherapy period (61.4% of patients in the Perjeta arm vs 33.8% of patients in the placebo arm). The incidence of diarrhoea was much lower after chemotherapy cessation, affecting 18.1% of patients in the Perjeta arm vs 9.2% of patients in the placebo arm in the postchemotherapy targeted therapy period.

In the APHINITY trial, a higher incidence of diarrhoea was reported in the Perjeta-treated arm (71.2%) compared to the placebo arm (45.2%). Grade 3 diarrhoea was reported in 9.8% of patients in the Perjeta arm vs 3.7% in the placebo arm. The majority of the reported events were Grade 1 or 2 in severity. The highest incidence of diarrhoea (all Grades) was reported during the targeted therapy+taxane chemotherapy period (61.4% of patients in the Perjeta arm vs 33.8% of patients in the placebo arm). The incidence of diarrhoea was much lower after chemotherapy cessation, affecting 18.1% of patients in the Perjeta arm vs 9.2% of patients in the placebo arm in the postchemotherapy targeted therapy period.

**Rash**  
In the CLEOPATRA, in metastatic breast cancer, rash occurred in 51.7% of Perjeta-treated patients, compared with 38.9% of placebo-treated patients. Most events were Grade 1 or 2 in severity, occurred in the first two cycles, and responded to standard therapies, such as topical or oral treatment for acne.

In the NEOSPHERE trial, rash occurred in 40.2% of patients treated with neoadjuvant Perjeta, Herceptin and docetaxel compared with 29.0% of patients treated with Herceptin and docetaxel. In the TRYPHENA trial, rash occurred in 36.8% of patients treated with neoadjuvant Perjeta+TCH and 20.0% of patients treated with neoadjuvant Perjeta, Herceptin and docetaxel following FEC. The incidence of rash was higher in patients who received six cycles of Perjeta compared with patients who received three cycles of Perjeta, independent of the chemotherapy given.

In the APHINITY trial, the adverse event of rash occurred in 25.8% of patients in Perjeta arm vs 20.3% of patients in placebo arm. The majority of rash events were Grade 1 or 2.

**Laboratory Abnormalities**  
In the CLEOPATRA and NEOSPHERE, and APHINITY the incidence of NCI-CTCAE Grade 3-4 decreases in neutrophil counts were balanced in the Perjeta-treated and control groups.

**Switching treatment from intravenous pertuzumab and trastuzumab to Phesgo (or vice versa)**  
Switching from intravenous pertuzumab and trastuzumab to Phesgo (or vice versa) was well tolerated by patients and did not reveal any new or clinically relevant safety concerns and the adverse events experienced were in line with those studied in FEDERICA and in previous studies using intravenous pertuzumab and trastuzumab administration (see section 3.2 Clinical/Efficacy Studies).

**2.6.2 Postmarketing Experience**  
Not applicable.**2.7 OVERDOSE**

There is no experience with overdose of Phesgo in human clinical trials. The highest Phesgo dose tested is 1200 mg pertuzumab/600 mg trastuzumab.

**2.8 INTERACTIONS WITH OTHER MEDICINAL PRODUCTS AND OTHER FORMS OF INTERACTION**

No formal drug-drug interaction studies have been performed.

**Intravenous Perjeta**

A sub-study in 37 patients in the pivotal trial CLEOPATRA showed no evidence of drug-drug interaction between Perjeta and Herceptin and between Perjeta and docetaxel. In addition, no clinically relevant pharmacokinetic interaction of coadministered docetaxel or Herceptin on Perjeta was evident, based on the population pharmacokinetics analysis. This lack of drug-drug interaction was confirmed by pharmacokinetic data from the NEOSPHERE and APHINITY studies.

Five studies evaluated the effects of Perjeta on the pharmacokinetics of coadministered cytotoxic agents, docetaxel, paclitaxel, gemcitabine, capecitabine, carboplatin, and erlotinib. There was no evidence of any pharmacokinetics interaction between Perjeta and any of these agents. The pharmacokinetics of Perjeta in these studies was comparable to those observed in single-agent studies.

**Intravenous Herceptin**

There have been no formal drug interaction studies performed with Herceptin in humans. Clinically significant interactions between Herceptin and the concomitant medications used in clinical trials have not been observed.

In studies where Herceptin was administered in combination with docetaxel or carboplatin, the pharmacokinetics of these medications was not altered nor was the pharmacokinetics of Herceptin altered.

Concentrations of paclitaxel and doxorubicin (and their major metabolites 6-a hydroxyl-paclitaxel, POH, and doxorubicinol, DOL) were not altered in the presence of Herceptin. However, Herceptin may elevate the overall exposure of one doxorubicin metabolite, 7-deoxy-13 dihydro-doxorubicinone, D7D). The bioactivity of D7D and the clinical impact of the elevation of this metabolite is unclear. No changes were observed in Herceptin concentrations in the presence of paclitaxel and doxorubicin.

The results of a drug interaction sub-study evaluating the pharmacokinetics of capecitabine and cisplatin when used with or without Herceptin suggested that the exposure to the bioactive metabolites (e.g. 5-FU) of capecitabine was not affected by concurrent use of cisplatin or by concurrent use of cisplatin plus Herceptin. However, capecitabine itself showed higher concentrations and a longer half-life when combined with Herceptin. The data also suggested that the pharmacokinetics of cisplatin were not affected by concurrent use of capecitabine or by concurrent use of capecitabine plus Herceptin.

**3. PHARMACOLOGICAL PROPERTIES AND EFFECTS****3.1 PHARMACODYNAMIC PROPERTIES****3.1.1 Mechanism of Action**

Pertuzumab and trastuzumab are recombinant humanized immunoglobulin (IgG1) monoclonal antibodies, which target the human epidermal growth factor receptor 2 (HER2, also known as c-erbB-2), a transmembrane glycoprotein with intrinsic tyrosine kinase activity. Pertuzumab and trastuzumab bind to distinct HER2 epitopes, subdomains II and IV, respectively, without competing or having complementary mechanisms for disrupting HER2 signaling. This results in augmented antiproliferative activity *in vitro* and *in vivo* when pertuzumab and trastuzumab are given in combination.

Additionally, the Fc portion of both their IgG1 framework provides for potent activation of antibody-dependent cell-mediated cytotoxicity (ADCC). *In vitro*, both pertuzumab and trastuzumab ADCC are exerted preferentially on HER2-overexpressing cancer cells compared with cancer cells that do not overexpress HER2.

**3.1.2 Clinical/Efficacy Studies**

This section presents the clinical experience from Phesgo and intravenous Perjeta in combination with Herceptin patients with HER2-positive early and metastatic breast cancer.

HER2 overexpression in all trials outlined below was determined at a central laboratory and defined as a score of 3+ by IHC or an ISH amplification ratio ≥ 2.0.

**Early Breast Cancer****Fixed-dose combination of pertuzumab and trastuzumab Phesgo****FEDERICA WO40324**

FEDERICA is an open-label, multicenter, randomized study conducted in 500 patients with HER2-positive early breast cancer that is operable or locally advanced (including inflammatory) breast cancer with a tumor size > 2 cm or node-positive in the neoadjuvant and adjuvant setting. Patients were randomized to receive 8 cycles of neoadjuvant chemotherapy with concurrent administration of 4 cycles of either Phesgo or intravenous Perjeta and Herceptin during Cycles 1-8. Investigators selected one of two of the following neoadjuvant chemotherapy regimens for individual patients:

- 4 cycles of doxorubicin (60 mg/m<sup>2</sup>) and cyclophosphamide (600 mg/m<sup>2</sup>) every 2 weeks followed by paclitaxel (80 mg/m<sup>2</sup>) weekly for 12 weeks.
- 4 cycles of doxorubicin (60 mg/m<sup>2</</sup>

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Phoenix Norm: sp022447 06-Jun-2014 Version 5.0

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Artworks Creator:	Perigord	25-Jun-2024	Version 1
Type size:	9 pt		
Format:	450x500 mm	folded: 47x60 mm	double PP
Drawing Norm:	NP9358	17-Aug-2010	10.115 - 3

Drawing Norm: spt022447

Phoenix Norm: 06-Jun-2014 Version 5.0

Colours:



solutions for injection which does not need to be mixed with other drugs or diluted.

Phesgo should be inspected visually to ensure there is no particulate matter or discolouration prior to administration. Do not shake.

Phesgo solution for injection is for single use only and should be prepared by a health care professional using aseptic technique.

From a microbiological point of view, the medicine should be used immediately once transferred from the vial to the syringe since the medicine does not contain any antimicrobial-preserved. If not used immediately, preparation should take place in controlled and validated aseptic conditions. Once transferred from the vial to the syringe, the medicinal product is physically and chemically stable for 28 days at 2°C-8°C or 24 hours at 9°C-30°C.

After transfer of the solution to the syringe, it is recommended to replace the transfer needle by a syringe closing cap to avoid drying of the solution in the needle and not compromise the quality of the medicinal product. Label the syringe with the peel-off sticker. The hypodermic injection needle must be attached to the syringe immediately prior to administration followed by volume adjustment to 10 mL (600 mg pertuzumab/600 mg trastuzumab) or 15 mL (1200 mg pertuzumab/600 mg trastuzumab).

No incompatibilities between Phesgo and polypropylene, polycarbonate, polyurethane, polyethylene, polyvinyl chloride and fluorinated ethylene polypropylene have been observed.

**Disposal of unused/expired medicines**  
The release of pharmaceuticals in the environment should be minimized. Medicines should not be disposed of via wastewater and disposal through household waste should be avoided.

The following points should be strictly adhered to regarding the use and disposal of syringes and other medicinal sharps:  
• Needles and syringes should never be reused.  
• Place all used needles and syringes into a sharps container (puncture-proof disposable container).

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

#### 4.3 PACKS

Box, 1 vial @ 1200 mg/600 mg/15 mL Reg. No.: DKI2257511243A1  
Box, 1 vial @ 600 mg/600 mg/10 mL Reg. No.: DKI2257511243B1

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 for:  
F. Hoffmann-La Roche Ltd., Basel, Switzerland  
by F. Hoffmann-La Roche Ltd., Kaiseraugst, Switzerland

Imported by:  
PT Menarini Indria Laboratories  
Bekasi, Indonesia

Distributed by:  
PT Roche Indonesia  
Jakarta, Indonesia

#### INFORMASI PRODUK UNTUK PASIEN

### PHESGO®

Pertuzumab and Trastuzumab  
Cairan untuk injeksi subkutan  
1200 mg/600 mg  
600 mg/600 mg

**Bacalah keseluruhan isi brosur ini dengan saksama sebelum Anda mulai menggunakan obat ini karena brosur ini memuat 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 diresepkan hanya untuk Anda. Jangan memberikannya kepada orang lain. Obat ini dapat membahayakan mereka, walaupun tanda-tanda penyakit mereka serupa dengan penyakit 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.

#### Apakah isi brosur ini:

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

#### 1. Apa itu Phesgo dan kegunaannya

Phesgo merupakan obat kanker yang mengandung dua bahan aktif bernama pertuzumab dan trastuzumab.

- Pertuzumab dan trastuzumab adalah "antibodi monoklonal". Keduanya didesain untuk berikatan pada target tertentu pada sel tubuh yang disebut "human epidermal growth factor receptor 2" ("HER2").
- HER2 ditemukan dalam jumlah yang banyak pada permukaan beberapa jenis sel kanker dimana ia menstimulasi pertumbuhan sel kanker tersebut.
- Dengan berikatan dengan sel-sel kanker yang memiliki reseptor HER2, maka Phesgo akan menghambat atau menghentikan pertumbuhan sel-sel kanker tersebut atau membunuh sel-sel kanker tersebut.

Phesgo tersedia dalam dua ukuran yang berbeda. Lihat bagian 6 untuk informasi lebih lanjut.

Phesgo digunakan untuk mengobati pasien dewasa yang menderita kanker payudara jenis "HER2-positif", dimana dokter Anda akan melakukan pemeriksaan untuk memastikan hal ini.

Phesgo dapat digunakan apabila:

- Kanker payudara tersebut telah menyebar ke bagian tubuh lainnya (tulang, dinding, dan pembentuk dinding) atau kanker payudara yang tidak dapat diangkat (*unresectable*) yang muncul kembali di payudara Anda setelah sebelumnya berhasil diterapi dengan adjuvan.
- Kanker payudara tersebut belum menyebar ke bagian tubuh lainnya (stadium dini) dan pengobatan diberikan sebelum operasi (pengobatan sebelum operasi disebut terapi neoadjuvan).
- Kanker payudara tersebut belum menyebar ke bagian tubuh lainnya (stadium dini) dan pengobatan diberikan setelah operasi jika terdapat risiko tinggi untuk kekambuhan kanker (pengobatan setelah operasi disebut terapi adjuvan).

Sebagai bagian dari terapi, Anda juga akan diberikan secara bersamaan obat-obatan yang disebut dengan kemoterapi. Informasi tentang obat-obatan ini terdapat pada brosur masing-masing. Tanyakan pada dokter, apoteker atau perawat Anda agar Anda diberikan informasi tentang obat-obatan tambahan tersebut.

#### 2. Apa yang perlu Anda ketahui sebelum diberikan Phesgo

**Anda tidak boleh diberikan Phesgo**

- Jika Anda alergi terhadap pertuzumab, trastuzumab atau terhadap bahan-bahan lainnya yang terkandung di dalam obat ini (tersebut tercantum dalam bagian 6).

Jika Anda tidak yakin tentang hal ini, silakan bicarakan dengan dokter, apoteker atau perawat Anda sebelum Anda diberikan Phesgo.

#### Peringatan dan Perhatian

##### Gangguan pada Jantung

Pemberian Phesgo dapat memengaruhi jantung. Silakan berkonsultasi dengan dokter, apoteker atau perawat Anda sebelum Anda diberikan Phesgo apabila:

- Anda pernah mengalami gangguan jantung (seperti gagal jantung, terapi untuk detak jantung tidak beraturan yang serius, tekanan darah tinggi yang tidak terkontrol, serangan jantung baru-baru ini). Dokter Anda akan melakukan pemeriksaan untuk mengetahui apakah jantung Anda bekerja dengan baik sebelum dan selama pemberian Phesgo.
- Anda pernah mengalami gangguan jantung pada terapi sebelumnya dengan menggunakan Herceptin.
- Anda pernah diberikan obat kemoterapi dari kelas yang disebut sebagai antraksilin, misalnya doxorubicin atau epirubicin—obat-obatan ini dapat merusak otot jantung serta akan meningkatkan risiko terjadinya gangguan jantung pada saat menggunakan Phesgo.
- Anda melakukan radioterapi pada area dada sebelum mendapatkan pengobatan Phesgo karena hal tersebut dapat meningkatkan risiko gangguan pada jantung.

Jika ada di antara hal-hal tersebut di atas yang terjadi pada diri Anda (atau jika Anda tidak yakin), sebaiknya Anda berkonsultasi dengan dokter, apoteker atau perawat Anda sebelum Anda diberikan Phesgo. Silakan baca bagian 4 "Efek samping serius" untuk memperoleh keterangan lebih lanjut terkait tanda-tanda yang perlu diperhatikan.

##### Reaksi terkait Injeksi

Reaksi yang terkait dengan injeksi dapat terjadi. Reaksi tersebut adalah alergi dan dapat sangat berat. Dokter, apoteker atau perawat Anda akan melihat apakah terjadi efek samping selama pemberian injeksi Anda pada rentang waktu:

- 30 setelah pemberian injeksi pertama Phesgo
- 15 menit setelah pemberian injeksi Phesgo berikutnya

Jika Anda mengalami suatu reaksi yang serius, maka dokter Anda mungkin akan menghentikan pengobatan dengan Phesgo.

##### Febrile Neutropenia (penurunan jumlah sel darah putih (neutrofil) dalam darah disertai demam)

Ketika Phesgo diberikan bersama-sama dengan terapi kanker lainnya yaitu kemoterapi, ada kemungkinan jumlah sel darah putih dalam darah Anda akan turun dan Anda akan mengalami demam (suhu tubuh naik). Jika saluran pencernaan Anda mengalami peradangan (misalnya: sakit pada rongga mulut atau diare), maka kemungkinan Anda akan mengalami efek samping ini menjadi lebih lelah. Jika demam berlangsung selama beberapa hari, ini mungkin merupakan tanda pemburuan kondisi Anda dan Anda harus menghubungi dokter.

##### Diare

Pengobatan dengan Phesgo dapat menyebabkan diare yang berat. Pasien dengan usia lanjut (lebih dari 65 tahun) lebih rentan mengalami diare dibandingkan dengan pasien di bawah usia 65 tahun. Jika Anda mengalami diare yang berat ketika menerima pengobatan antikanker, dokter Anda dapat memberikan obat anti-diare untuk mengatasi diare selama terapi. Dokter Anda juga dapat menghentikan pengobatan Anda dengan Phesgo hingga diare terkontrol.

##### Penyakit

Penggunaan pada anak-anak dan remaja  
Phesgo tidak diperkenankan untuk digunakan pada pasien dengan usia di bawah 18 tahun, karena masih belum ada informasi tentang bagaimana efek kerja obat ini pada kelompok usia tersebut.

##### Penggunaan pada pasien dengan usia lanjut

Pasien di atas usia 65 tahun lebih sering mengalami efek samping seperti berkurangnya nafsu makan, menurunnya jumlah sel darah merah, berat badan turun, kelelahan, hilangnya atau berubahnya pengecap, kelelahan, mata rasa, sensasi kesemutan atau tertiukus yang terutama menyerang kaki dan tungkai serta diare, dibandingkan dengan pasien dibawah usia 65 tahun.

##### Obat-obatan lain dan Phesgo

Beri tahu dokter, apoteker atau perawat Anda apabila Anda sedang, baru saja, atau akan menggunakan obat-obatan lainnya juga. Ini termasuk obat-obatan tanpa resep serta obat-obatan herbal.

##### Kehamilan, menyusui dan Kontrasepsi

Sebelum mulai penggunaan obat ini, Anda harus memberi tahu dokter, apoteker atau perawat Anda bahwa Anda sedang hamil atau sedang menyusui, atau ada kemungkinan bahwa Anda sedang hamil atau berencana untuk hamil. Dokter, apoteker atau perawat Anda akan memberi tahu Anda segera manfaat dan risiko bagi Anda dan bayi Anda apabila Anda menggunakan Phesgo pada saat masih kehamilan.

- Segeralah memberi tahu dokter Anda apabila Anda sedang hamil selama masa pengobatan menggunakan Phesgo atau selama rentang waktu 7 bulan setelah selesainya masa pengobatan. Penggunaan Phesgo dapat membahayakan janin. Oleh karena itu Anda harus menggunakan alat kontrasepsi yang efektif selama terapi Phesgo ini serta pada rentang waktu 7 bulan setelah selesainya terapi.
- Tanyakan pada dokter Anda apakah Anda boleh menyusui selama atau setelah masa pengobatan dengan Phesgo.

##### Mengemudi dan mengoperasikan mesin

Phesgo mungkin dapat memengaruhi kemampuan Anda untuk mengemudi atau mengoperasikan mesin. Jika Anda merasa pusing, dingin, demam, atau terdapat reaksi terkait injeksi atau reaksi alergi seperti dijelaskan di bagian 4 di bawah, maka tunggul sampai semua reaksi itu hilang sebelum Anda mengemudi atau mengoperasikan mesin.

##### Phesgo mengandung natrium

Phesgo mengandung < 1 mmol natrium (23 mg) per dosis, maka dapat dinyatakan "tidak mengandung natrium/sodium free".

#### 3. Cara penggunaan Phesgo

##### Penggunaan obat Phesgo

Terapi Phesgo dilaksanakan oleh dokter, apoteker atau perawat di rumah sakit atau klinik dengan cara penyuntikan atau injeksi di bawah kulit Anda (injeksi subkutan).

- Injeksi akan diberikan setiap tiga minggu.
- Anda akan diberikan injeksi pertama pada bagian paha dan injeksi berikutnya di bagian paha lainnya. Titik suntik harus berantai antara paha kiri dan paha kanan.
- Dokter atau perawat Anda akan memastikan setiap penyuntikan dilakukan di titik suntik baru (berjarak sekurang-kurangnya 2,5 cm dari titik suntik lama), dan dimana area kulit tersebut tidak memerah, memar, lunak, atau keras.
- Jika akan memberikan obat lain secara subkutan selama terapi Phesgo, maka harus menggunakan titik suntik yang berbeda.

##### Untuk injeksi pertama (dosis awal)

- Phesgo 1200 mg/600 mg akan diberikan secara injeksi di bawah kulit Anda selama 8 menit. Dokter, apoteker atau perawat Anda akan melihat apakah terjadi efek samping selama pemberian injeksi hingga rentang waktu 30 menit setelahnya.
- Anda juga akan diberikan obat kemoterapi lainnya.

##### Untuk injeksi berikutnya (dosis pemeliharaan), akan diberikan jika injeksi pertama berhasil diterima oleh tubuh dengan baik:

- Phesgo 600 mg/600 mg akan diberikan secara injeksi di bawah kulit Anda selama 5 menit. Dokter, apoteker atau perawat Anda akan melihat apakah terjadi efek samping selama pemberian injeksi hingga rentang waktu 15 menit setelahnya.
- Anda juga akan diberikan obat kemoterapi lainnya, sesuai resep dokter.

##### Jumlah suntik yang diberikan kepada Anda bergantung pada:

- respon tubuh Anda terhadap terapi
- apakah Anda pernah mendapatkan terapi lain sebelum dioperasi (terapi neoadjuvan) atau setelah operasi (terapi adjuvan)

- apakah Anda pernah menyuntikkan obat kemoterapi lainnya.

Jika Anda mengalami salah satu dari efek samping di atas, segera bicarakan hal tersebut kepada dokter, apoteker atau perawat Anda.

Jika Anda mengalami gejala-gejala efek samping seperti tersebut di atas setelah terapi Phesgo dihentikan, maka Anda harus dengan segera berkonsultasi dengan dokter Anda dan memberitahu bahwa Anda sebelumnya pernah diterapi dengan menggunakan Phesgo.

Beberapa efek samping yang Anda alami bisa jadi disebabkan oleh kanker payudara Anda. Jika Anda diberikan pengobatan Phesgo dengan kemoterapi secara bersamaan, maka efek samping yang muncul bisa juga disebabkan oleh obat lain tersebut.

##### Pelaporan efek samping

Jika Anda mengalami efek samping apapun, konsultasikanlah dengan dokter, apoteker atau perawat Anda. Hal ini termasuk

memberikan yang baru sesegera mungkin. Dosis yang diberikan oleh dokter bergantung pada berapa lama jeda waktu sejaknya terakhir kali Anda menjalani terapi.

**Jika Anda menghentikan terapi Phesgo**  
Anda tidak diperkenankan untuk menghentikan terapi Phesgo ini tanpa berkonsultasi dengan dokter Anda sebelumnya. Penting bagi Anda untuk mendapatkan keseluruhan dosis injeksi yang telah direkomendasikan untuk Anda setiap waktu selama tiga minggu. Hal ini membuat obat dapat bekerja dengan baik.

Jika masih ada hal-hal yang ingin ditanyakan tentang penggunaan obat ini, silakan bertanya kepada dokter, apoteker atau perawat Anda.

## &lt;h