		Producto: Pronivel 2000/4000 (Jeringa Prellenada) - DOSSIER					R Cód	Código: 000000-00 reemplaza a			
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		Fecha: 09/08/22				Nº Diseño: 0797/2					
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Epoetin Alfa R_X Pronivel®

2.000 I.U./ml Solution for injection (IV/ SC) 4.000 I.U./ml Solution for injection (IV/ SC)

Hematopoletic Growth Factor

Composition:

Pronhel® 2.000 i.U.: Each prefilled syringe of 1 mL contains: Recombinant human enythropoletin alpha ((HuEPO alpha) 2.000 i.U. Excipients: Human serum albumin 2.5 mg; Sodium chloride 5.84 mg; Monchydrale monosodium phosphate 0.827 mg; Anhydrous dibasic sodium phosphate 1.987 mg, Water for injection q.s. to 1.0 mL.

Pronhel® 4.000 i.U.: Each prefilled syringe of 1 mL contains: Recombinant human enythropoletin alpha ((HuEPO alpha) 4.000 i.U. Excipients: Human serum albumin 2.5 mg; Sodium chloride 5.84 mg; Monchydrale monosodium phosphate 0.827 mg; Anhydrous dibasic sodium phosphate 1.987 mg, Water for injection q.s. to 1.0 mL.

Therapeutic action: Anti-anemia hormonal agent. Hematopoletic agent. Erythropolesis stimulant agent. Anti-anemia h ATC BO3XAO1

- Art BodXAOT

 Indications:

 Ind

- blood loss (900 to 1,800 mt).

 Pharmacological properties:
 -Pharmacological Atoris: Endogenous erythropolatin (EPO) is a glycoprotein produced in the kidney in response to hypoxia and stimulates the production of red blood cells in the bone marrow from erythrold progenitors, being the key regulator of red blood cells production.

 After EPO binds to the receptor on the cell surface, it actives signals interfering with apoptosis and stimulates the proliferation of erythroid cells. Recombinant human erythropoletin (-thu EPO) produced by recombinant DNA technology is identical in amino acid sequence and has the same biological effects of endogenous urinary erythropoletin.
 -Pharmacokinetics: After intravenous administration of erythropoletin olipha, the elimination half-life ranges from 4 to 6 h in healthy volunteers and from 6.5 to 9.3 h in patients with chronic renal failure.

 After subcutaneous administration, serum levels are lower than those for I.v. route, the levels increase slowly and reach a peak between 12 to 18 h post-dose which is much lower than that achieved for to, route (approx. 1720 of the I.v. value). After subcutaneous administration, erythropoletin levels remain increased for about 72 h. When 3 weekly doses are used, no accumulation is observed, and levels remain stable, whether determined 24 hours after the first injection and 24 hours after the last injection. The subculaneous bloavallability.

 Pharmacodynamics: After administration of erythropoletin alpha, increased refloulocytes within 10.
- The substraineous broavalidatiny is 20-30% of the introvenous bloovalidability.

 Pharimacodynamics: After administration of enythropoletin alpha, increased reticulocytes within 10 days of starting freatment, followed by increased levels of red blood cells, hemoglobin and hematocrit within 2-6 weeks are observed. The rate of increase of hemoglobin is variable between patients and dose-dependent, but in patients on hemodialysis no higher response at doses greater than 300 IU/kg three times a week was observed.

Dose and administration:
The dosage will be established as medically indicated. Doses should be individualized to ensure the adequate hemoglobin level for each patient.
Recombinant human erythropoletin should be administered under the supervision of a qualified

Recombinant human erythropoletin should be administered under the supervision of a qualified physician.
During treatment, hematological parameters should be monitored regularly. In patients on hemodialysis, the intravenous route is recommended.
Chanale real failure: In patients with CRF on hemodialysis with venous access available, intravenous route of administration is preferred. It is suggested to administer erythropoletin after the dialysis procedure is completed. In adult patients with CRF without venous access (those who are not yet on hemodialysis or patients on peritoneal dialysis), suboutaneous injection is preferred.
The recommended starting dose of Pronivel in adult patients is 50 to 100 Units/kg three times a week.
The treatment is divided into two stages:

- Phase of Carrection: 50 IIIVa three times a week.

Phase of Correction: 50 IU/kg three times a week.
 When a dose adjustment is required, it should be done at least in steps of four weeks. At each step, the increase or reduction in the dose should be of 25 IU/kg three times a week. The total maximum weekly dose should not exceed 3x200 IU/kg.

When a dose adjustment is required, it should be done at least in steps of four weeks. At each step, the increase or reduction in the dose should be of 25 fUVkg three times a week. The total maximum weekly dose should not exceed 3x200 fUVkg.

- Phase of Mointenance: Dose adjustment in order to maintain hemoglobin values at the desired level: the between 10 and 12 mg/dt. (6.2 to 7.5 mmol/L). The recommended total weekly dose is between 75 and 300 fUVkg.

- Patients switching from SC to IV administration should use the same dose, and Hb should be closely monitored (e.g., weekly) to make the necessary adjustments in medication to achieve hemoglobin levels in a proper range.

- Dose adjustments: if the hemoglobin increases and reaches 12 mg/dt., the dose should be reduced by 25%. If it continues to increase, discontinue the dose until the Hb begins to decrease, of which point han 1 mg/dt. In 2 weeks, the dose should be decreased by 25%, either in the number of weekly injections, the total amount of EPO alpha in each dose, or both.

Adult patients with cancer: Erythropoletin should only be administered to cancer patients with anemia with Hb below 10 mg/dt. Subcutaneous route of administration is suggested. The hemoglobin variability should be addressed through dose adjustment, considering the target hemoglobin range between 10 mg/dt. (6.2 mmo/L) and 12 mg/dt. (7.5 mmo/L), preventing a sustained hemoglobin level above 12 mg/dt.

An initial SC dose of 150 fUVkg three times a week is suggested. If other 4 weeks of treatment, the hemoglobin has increased at least 1 mg/dt. (0.62 mmo/L) or the reticulocytes count has increased \(\preceq 1 \) mg/dt. (2.0 62 mmo/L) and the reticulocytes count has increased \(\preceq 1 \) mg/dt. (2.0 62 mmo/L) or the reticulocytes count has increased \(\preceq 1 \) mg/dt. (2.0 62 mmo/L) or the reticulocytes count has increased \(\preceq 1 \) mg/dt. (2.0 62 mmo/L) and the reticulocytes count has increased \(\preceq 1 \) mg/dt. (2.0 62 mmo/L) and the reticulocytes count has increased \(\

exceeds 12 mg/dL, discontinue the treatment until the hemoglobin value drops and then restart the treatment with Pronivel with a dose 25% lower than the previous dose. Adult surgery patients in a autologous pre-donation program: Route of administration: Intravenous. Doses of 300-600 IU/kg twice a week are suggested, for 3 weeks, with at least 200 mg of elemental

Adult patients scheduled for elective surgery
Route of administration: Subcutaneous

Route of administration: Subcutaneous Before considering a freatment with enythropolesis stimulating agents as Pronivel, it is desi-rable to investigate other potential correctable causes of anemia. The recommended PRONIVEL dosing regimen is 600 IU/kg weekly for three weeks (days -21, -14 and -7) prior to surgery and the day of surgery. If the planned time before surgery is shortened to less than three weeks due to medical needs, EPO alpha 300 IU/kg daily for 10 consecutive days prior to surgery, on the day of surgery and for four days immediately following the surgery should be administered. If when performing hematologic assessments during the preoperative period, the hemoglobin level reaches 15 mg/dL or higher, the administration of Pronivel should be discontinued and subsequent doses should not be are administered. Adequate from supplementation: It is recommended to evaluate the levels of iron stores, including transferrin saturation (serum iron divided by iron binding capacity) and serum ferritin before and during treatment with recombinant human erythropoletin. Most patients will require iron supplements (e.g., elemental Iron 200mg orally) to increase or maintain transferrin saturation to levels adequate to support erythropolesis stimulated by recombinant human erythropoletin. The possible, administer the supplement before initiating the therapy with EPO alpha to achieve the indicated reserves.

ructions for use

- All parentaria products should be visually inspected in order to identify any particulate matter and the product keeps colourless

 Do not use any parentaria product if particulate matter or discoloration is observed.

 Avoid prolonged vigorous shoking with subsequent formation of foam, since this procedure can denaturate the protein recombinant human erythropoletin, with the possible inactivation of the product.
- product.

 By using aseptic techniques, place a sterile needle in a sterile syringe. Remove the plastic cover (flipp-off) of the vial containing Pronivel solution and clean the top of the stopper with a distrifectant, insert the needle into the vial and remove with the syringe the appropriate volume of solution

to be Injected.

• Each vial of Pronivel solution is for a single use because it contains no preservatives. Dispose the unused remaining contents of the vial. Do not reuse the syringe.

• Pronivel solution should not be diluted or administered mixed with other drug solutions. Administrative subcutaneous or intravenous injection (as appropriate) in 1-2 minutes, injections should be performed after the dialysis, in the oatheetration needle, followed by rinsing with 10 mL of isotonic solution for parenteral use to ensure the correct passage of product into the circulation. In patients who develop flu-like symptoms, it may be preferable a slower injection for 5 minutes.

<u>Subcutaneous administration</u>: The maximum volume to be injected per site should not exceed 1 mL. If it is necessary to inject larger volumes, choose more than one site. Injections are made afternately in the limbs and the anterior abdominal wall.

Contraindications:

- Contraindications:
 Uncontrolled hypertension
 Known hypersensitivity to products derived from mammalian cells.
 Known hypersensitivity to human albumin.
 Known hypersensitivity to any of the excipients of the formulation.
 Patients scheduled for major elective surgery, not participating in autologous blood pre-donation program and not having coronary aftery disease, peripheral array disease, caro-tild aftertal disease or stroke, including patients with recent myocardial infarction or stroke.
 Surgical patients who for any reason can not receive adequate antithrombotic prophylaxis.
 Patients developing pure red cell aplasia with any erythropoletin.

Warnings:

Cardiovascular and thrombotic events/increased mortality: An increase in thrombotic vascular events in patients receiving erythropolesis stimulating agents such as Epo alpha has been observed. These include venous and arterial thrombosis and embotism; (including some with fatal outcome), such as deep vein thrombosis, pulmonary embotism, retinal thrombosis and myocardial infarction. Additionally, strokes (including cerebral infarction, cerebral hemorrhage and transient ischemic attacks) has been reported.

An adequate weighting of benefit from treatment with erythropoletin on reported risks of thrombotic events, particularly in patients with previous risk factors, is suggested.

The hemoglobin concentration should also be monitored closely due to the potential risk of thromboembotic events when patients are thead and have the concentrations above the range of use. Use in patients with cancer diagnosis: Erythropoletin is a growth tactor that primarity stimulates red cell production. As with all growth factors, there is a concern about the possibility that they stimulate tumor growth. Controlled clinical studies have demonstrated the following:

The use of erythropolesis stimulating agents shortened the overall survival and increased deaths attributed to disease progression at 4 morths in patients with advanced breast cancer, when administered to achieve a hemoglobin level between 12 mg/dl. and 14 mg/dl.

Additionally, reduced locolegional control in patients with advanced tumors of head and neck treated with radiation therapy, when given hematopolesis stimulatins agents with a farget of hemoglobin higher from 14 mg/dt.

Another environnesses stimulation molecule was shown to increase the risk of death when administered controlled in the production of the morth of the patients with a damined the resk of death when administered to achieve a hemoglobin level between the patients agents with a forget of hemoglobin higher from 14 mg/dt.

than 14 mg/dL was reported.

Another erythropolesis stimulating molecule was shown to increase the risk of death when administered to achieve a hemoglobin level of 12 mg/dL in patients with active malignancy, receiving neither chemotherapy nor radiation therapy.

tered to achieve a hemoglobin level of 12 mg/dL in patients with active malignancy, receiving neither chemotherapy nor radiation therapy. Considering the above, the decision to administer the recombinant erythropoletin teatment should be based on the benefit-risk assessment with the participation of the patient, taking into account the specific clinical setting. Among the factors to be considered for the evaluation are the type of tumor and its stage, extent of anema, life expectancy, the setting of freatment and the patient's opinion. PRONIVEL should only be administered to theat patients with concer when anemia has appeared after concomitant chemotherapy. A level of hemoglobin of 12 mg/dL should not be exceeded. Use in patients with chance renal failure. (CRF) a complete blood count (with hemoglobin concentration) should be performed regularly, until a stable level is achieved and periodically thereafter. In patients with the CRF the radie of increase in hemoglobin should be approximately 1 mg/dL and should not exceed 2 mg/dL to minimize the risk of hypertension. The dose should be reduced where hemoglobin approaches to 12 mg/dL.

reached.

Patients with CRF with insufficient response to colony-stimulating agents (deficient hemoglacin heroseveries reached.

Patients with CRF with insufficient response to colony-stimulating agents (deficient hemoglacin concentrations) may be at greater task of cardiovascular events, including death, than other patients. Shunt thrombosis in patients on hemodialysis has been reported, especially in patients prone hypotension or whose arteriovenous fistual has complications (e.g., stenosis, aneurysms, etc.). In these patients an early shunt inspection and thrombosis prophylaxis administering a drug such as acetylsalicylic acid is recommended.

In isolated cases, hyperfalemia has been observed, although the causality has not been established. In patients with chronic renal failure monitoring of serum electrolytes is required. If high or increased arrum potassium level to observed, then in addition to appropriate freatment of hyperfaciental, the discontinuation of erythropoletin alpha until the serum potassium level has been corrected should be considered.

be considered. During therapy with erythropoletin an increase in the dose of heparin during hemodialysis due to the







increased volume of the cell mass is often required. If heparinization is not optimal a potential block-age in the dialysis system may occurs. Adjustment may be required to prevent the clagging of the extracorporeal circuit during hemodiatysis. In some women with CRF, menses have restarted after therapy with EPO alpha, so the possibility of pregnancy should be discussed and the need for contraception should be evaluated. Based on the information available to date, correction of anemia with EPO alpha in adult patients with chronic renal failure not yet undergoing dialysis does not accelerate the rate of progression of renal failure.

with chronic renal failure not yet undergoing aianysis uses not accertance the top of programs. All warnings and special precautions associated with autologous pre-donation programs. All warnings and special precautions associated with autologous pre-donation programs, especially those related to routine volume replacement, should be followed.

Patients scheduled for elective surgery: There is increased risk of postoperative thrombotic events in patients with hemoglobin greater than 13 mg/dL.

In patients scheduled for elective surgery the cause of anemia should be determined and treated, if possible, before initiating treatment with recombinant erythropoletin. Thrombotic events can be a risk in this population, so they should be weighed carefully. Hypertension: Blood pressure should be controlled before initiation of therapy with recombinant human erythropoletin and during treatment.

Patients with uncontrolled hypertension should not be freated with recombinant human erythropoletin (see Contraindications).

erythropoietin and during treatment.

Patients with uncontrolled hypertension should not be treated with recombinant human erythropoietin (see Controllediotions).

Blood pressure may increase during treatment of anemia with EPO. Seizures and encephalopathy has been observed.

Patients should be advised of the importance of compliance with antihypertensive therapy and dietary restrictions. If the blood pressure is difficult to control with the initial appropriate measures, may be necessary to reduce the dose of recombinant human erythropoietin or discontinue the therapy until the hemoglobin concentration begins to descend.

Seizures Seizures in patients receiving recombinant human erythropoietin have occurred. Use cautiously in patients with epilepsy, a history of seizures, conditions associated with predisposition to seizure activity as central nervous system infections or brain metastases.

Pure red blood cells aplaisar: Cases of red blood cells aplaisar coeries anemia, with or without cytopenias, mostly associated with neutralizing antibodies to erythropoietin has been reported. It has been reported predominantly in patients with pure red cell aplasia receiving erythropoietin subcutaneously. It was rarely reported after months or years of treatment with erythropoietin, there were also rare cases in patients with hepotitis C treated with inbovirin and interferon concomitantly to erythropoiets stimulating agents. The use of hemotopoiesis-stimulating agents in patients with produces of the evoluted for the etiology of loss of therapeutic effect, including typical causes of non-response. If no cause is identified, examination of bone marrow should be considered.

If pure red blood cells aplais is diagnosed, PRONIVEL should be discontinued immediately and antibody defection should be considered. If erythropoietin and other erythropoietic products antibodies are delected, erythropoiets is indigenosed, PRONIVEL should be considered in the produces of the erythropoietic products antibodies are delected, erythropoieti

Precautions:

Iron supplements: Before starting treatment with PRONIVEL, other causes of anemia (iron deficiency, hemolysis, blood loss, deficiency or virlamin B12 or folate) should take into account and treated. In most cases, serum territin drops simultaneously with the increase in hematocrit. In order to ensure optimum response to Pronivel, suitable iron deposits should be ensured, so supplements should be administered if necessary, usually 200-300mg/day daily:
In patients with chronic renal failure whose serum ferritin levels are below 100 ng/ml. a supplement of oral iron of e.g. 200-300 mg/day is recommended (100-200 mg/day for pediatric patients).
In patients with concer whose transferrin saturation is below 20% a supplement of oral iron of 200-300 mg/day is recommended.

In patients with cancer whose transferrin saturation is below 20% a supplement of oral iron of 200-300 mg/day is recommended. In patients on a pre-donation program, oral elemental iron 200 mg/day should be administered several weeks before.

several weeks before.

In patients undergoing elective surgery, oral iron 200 mg/day should be administered prior to Pronivel, if possible, and if not during freatment.

If the patient does not respond or maintain the response, the following etiologies should be evaluated and considered:

- Underlying malignant, infectious or inflammatory processes.

 Occult blood loss.

 Underlying hematological diseases (thalassemia, refractory anemia or other myelodysplastic disorders).
- disorders).
 Vitamin deficiencies (vitamin B12, folic acid).
- Hemodialysis.
- Aluminum poisoning. Fibrous cystic osteitis
- 8- Fibrous cystic ostetiis.

 Pronivel contains **abumin** derived from human blood. Based on the effective donor screening and product manufacturing process, this would lead to a rare remote risk for transmission of viral diseases. A theoretical risk for transmission of Creutzletal Jacob disease (CJD) is considered remote. No cases of transmission of viral diseases or CJD identified associated with albumin has been reported.

 Serious aflergic reactions: With the use of an erythropient nation such as Pronivel, a serious aflergic reaction, including anaphylactic reaction, angioedema, branchospasm, rash, and urticaria may develop. If a serious aflergic or anaphylactic reaction occurs, discontinue immediately the Pronivel therapy and consult your doctor.

 The various erythropoiesis stimulating factors are not necessarily equivalent, so it is important to consult your health care professional before making any changes.

 Platelet counts during the first 8 weeks of treatment with Pronivel are suggested as a dose-dependent increasing in platelets may occurs which becomes normal during therapy. Thrombocytopenia has been also reported.

 Use with caution in patients with gout, as increased uric acid acid by the proper and have increased erythropolesis.

- erythropoiesis

erythropoiesis.

Pregnancy: Category B3 (Australia): It is not known if Pronivel crosses the placenta or if It can produce tetal harm when administered to a pregnant woman. There are no adequate and well controlled studies in pregnant women. Studies in rats showed that doses of 20-500 IU/kg/day produced decreased fertility, increased losses, decreased fetal weight, and delayed assification. Recombinant human erythropoletin can be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Breasfeeding: It is not known if recombinant human erythropoletin is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when administered recombinant human erythropoletin to breastleeding mothers. Exposed animals showed retarded growth and development of offspring.

Pediatric use: There are clinical trials supporting the effect of erythropoletin alpha in children as to correction of anemia, reduced transitusion requirements, improved bleeding lendency in uremia, increased appetite, decreased cytotoxic antibodies.

Padamic use: Trise of the Carifox his asponsible precision of anemia, reduced transfusion requirements, improved bleeding tendency in uremia, increased appetite, decreased cytotoxic antibodies.

Safety reported for pediatric patients is incomplete, particularly with regard to hemoglobin range management and changes in blood pressure.

Genotoxicity: EPO alpha did not induce gene mutations nor caused chromosomal damage.

Carcinogenicity: There are conflicting reports in literature regarding the potential role in turnor proliferation of erythropoletin stimulating agents, however, long-term studies have not been conducted.

Drugs Interactions:
The effect of recombinant human erythropoletin can be enhanced by simultaneous administration of another anti-anemia agent. Therefore, administration of iron when treatment with recombinant human erythropoletin does not produce the desired response should be done carefully considering laboratory

entrification described in a destred response should be oblie calenting laboration ande.

Drugs lowering enythropoiesis may decrease the response to Pronivel.

Cyclosporine may interact. It is suggested to monitor their blood levels and adjust for any incre

The administration of trastuzumab 6 mg/kg in patients with metastatic breast cancer along to EPO alpha 40,000 lU/mL did not affect the pharmacokinetics of trastuzumab. Effects on the ability to operate machines: No studies have been conducted regarding erythropoietin and the ability of driving vehicles and operate machines.

Adverse Reactions:

Adverse Reactions:
Studies indicate that recombinant human erythropoletin is generally well tolerated.
The most frequently reported adverse event to the treatment with erythropoletin alpha is increased blood pressure or worsening of preexisting hypertension. Monitoring of blood pressure, especially at the begin-insure or worsening of recommended. Hypertensive crisis with encephalopathy, which requires immediate medical attention and intensive care in patients with low or normal blood pressure has been reported during treatment with erythropoletin. It is advised to pay special attention to sudden stabbing migraine-like headaches as a possible warning signal.

In patients receiving erythropolesis-stimulating agents an increased incidence of thrombotic vascular events has been observed.

In patients receiving erythropoiesis-stimulating agents an increased incidence of thrombotic vascular events has been observed.

Hypersensitivity reactions such as rash (including urticaria), anaphylactoid reactions and angioedema have also been reported.

Other most frequently reported events (±10%) in clinical trials are diarrhea, nousea, vomiting, pyrexia, chills, injection sitle reactions, headache, and flu-like syndrome (especially at the start of treatment). Adverse events occurred in more than 5% of patients with chronic renal failure participating in several clinical trials were hyperfension, thromboembolism (maintly in patients on dialysis), rash, diarrhea, nousea, vomiting, orthratipa, limbs pain, muscle aches, bone pain, chilis, peripheral deama, injection site reactions, flu-like syndrome, pyrexia, hyperkolemia, dizziness, upper respiratory tract infections, cough, in more than 5% of patients with anemia due to cancer chemotherapy treated with erythropoietin in various clinical trials, nausea, vomiting, diarrhea, pyrexia, periphera edema, headache, cough, embolism and thrombosis, myalgia, arthratigia, stomatitis, cough, weight loss, leukopenia, bone pain, rash, hyperglycemia, insomnia, headache, depression, dysphagia, hypokalemia, and thrombosis and embolism have been described.

Adverse reactions occurred in ≥5% of surgical patients in clinical trials were: nausea, vomiting, diarrhea, chills, liching, injection site reactions, pyrexia, peripheral edema, headache, cough, embolism and thrombosis, deep venous thrombosis, hypertension.

Allergic reactions: There were no reports of serious allergia reactions or anaphylaxis associated with the administration of recombinant human erythropoietin. In patients with chronic renal failure rash and urticaria of moderate and transient nature were rarely observed.

However, if an anaphylacitic reaction occurs, therapy with recombinant human erythropoietin should be immediately discontinued and appropriate therapy should be inilitated. In HIV-infected patients tre

been reported.

When reported, the incidence of antibody formation is high depending on the sensitivity and specificity

with recombinant human erythropoietin or severe unernu with a sensitivity and specificity of the assay.

When reported, the incidence of antibody formation is high depending on the sensitivity and specificity of the assay.

Additionally, the observed incidence of positive antibodies (including neutralizing antibodies) in an assay may be influenced by several factors including assay methodology, sampling, sample collection time, concomitant medications, and underlying disease.

For these reasons the comparison of the incidence of cross-antibodies within this class (erythropoietic proteins) may be an unclear data.

Hypertension: Up to 80% of patients with chronic renal failure have a history of hypertension. The blood pressure may rise during therapy with recombinant human erythropoietin in patients with chronic renal failure, the relationship between therapy with recombinant human erythropoietin and selzures is uncertain. However, it seems to have a higher rate of selzures during the first 90 days of therapy (occurring in approximately 2.5% of patients), when compared with subsequent pendos.

In clinical trials with recombinant human erythropoietin in HIV-infected patients treated with zidovudine, 10 patients experienced seizures. In general, these events seem to be related to an underlying disease such as meningilis or brain neoplasm and not to therapy with recombinant human erythropoietin. Thrombotic events: During hemodiclysis, patients treated with recombinant human erythropoietin may require an increase in heparin anticoagulation. A statistical link between increased hematocal and rate of thrombotic events such as meningilis or brain neoplasm and not to therapy with recombinant human erythropoietin may require an increase in heparin anticoagulation. A statistical link between increased hematocal and rate of thrombotic events such as myocardial infarction, stroke, and transient started collades hematocal and rate of thrombotic events such as myocardial infarction, stroke, and transient schemic attack, and my

of administration); asthenia; vertigo; convulsion; stroke; transient ischemic arrack, and myocurarii infarction.
Patients with cancer on chemotherapy: In double-blind, placebo-controlled studies, although some statistically significant differences between patients treated with recombinant human erythropoietin and those treated with placebo were noted, the overall safety profile of recombinant human erythropoietin appears to be consistent with the process of the advanced cancer disease. The observed adverse effects were pyrexia; diarries, reasons; extensing; eterms; asthenia; fatigue; shortness of breath; paresthesia; upper respiratory infection; dizziness and chest pain.

The available data from humor models in animals and measurements of proliferation of solid humor cells from clinical biopsy specimens in response to recombinant human erythropoietin, suggest no enhancement of tumor growth. However, as a growth fotor, the possibility that human recombinant erythropoletin may enhance the growth of some tumors, particularly myeloid humors, can not be excluded. HIV-infected patients treated with zidovudine: In double-blind, placebo-controlled studies there was no significant difference between treatment groups in the incidence of the events listed below; pyrexia, fatigue, headcoche, cough, diarrhea, rash, respiratory congestion, nausea, shortness of breath, astheria, skin reaction (at the site of administration), vertigo.

Recombinant human erythropoietin was not associated with significant increases in apportunistic infections or mortality. The serum antigen levels seem not to increase. Preliminary data showed no increase in HIV replication in "in vitro" infected cell lines.

In post-marketing experience, pure red blood cells applasia, which has been linked to anti-erythropoietin antibodies, was reported very rarely (<1/10,000).

increase in HIV replication in "in vitro" infected cell in post-marketing experience, pure red blood cells of antibodies, was reported very rarely (<1/10,000).

Overdose
The maximum amount of recombinant human erythropoletin that can be safely administered in single or multiple doses has not been determined. The response to erythropoletin administration is individual and dose-related.

Therapy with recombinant human erythropoletin may result in polycythemia if the hemalacrit is not carefully controlled and the dose is not adjusted. If the target range is exceeded, recombinant human erythropoletin may be discontinued temporarily until the hemalacrit return to the target range; then the therapy with recombinant human erythropoletin may be resumed using a lower dose (see Dosage and Aministration). Precautions: Hypertension and seizures. If polycythemia is a concern, phlebolomy in order to reduce the hemalacrit may be started.

In the event of overdose, go to the nearest hospital or contact a Poison Control Center:

How Supplied Packages containing

Pockages containing: 1 prefilled syringe with 1 mL of solution with needle Packages containing: 1 vial of 1 mL. Hospital use: Packages containing 10, 25, 50 and 100 vials of 1 mL.

Conservation and storage conditions Store at a temperature between 2 $^{\circ}\text{C}$ - 8 $^{\circ}\text{C}$, protected from light. Do not freeze or shake.

MAINTAIN THIS AND ALL THE MEDICINES IN THEIR ORIGINAL PACKAGE AND OUT OF THE CHILDREN REACH.

inal product authorized by the Ministry of Health. Certificate No. 43.661 RATORIO ELEA PHOENIX S.A.: Av. Gral. Lemos N° 2809, Malvinas Argentinas, Buenos Aires,

Argentine.

Technical Director: Loura A. B. Hernández, Pharmacist.

Date of authorization: August 1994

Date of revision: August 2019

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Date of outhorization: August 1994
Date of revision: August 2019
Manufactured by: M.R. PHARMA S.A.: Estados Unidos N° 5105, El Triangulo, Malvinas Argentinas,
Provincia de Buenos Aires, República Argentina. For: LABORATORIO ELEA PHOENIX S.A.: Av. Gral.
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Epoetin Alfa 2.000 I.U./ml, solution for injection (IV/SC)
Imported and Distributed by: Biocare Lifesciences, Inc., 4th Floor, 393 Goodwill Bidg., Senator Gil
Puyal Ave., Brgy. Bel-Air, Makati, Melro Manila.
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