

A close-up photograph of a person's hand holding a single wooden puzzle piece. The puzzle piece is light-colored wood with a red logo in the center. The logo consists of a white circle with four red, rounded, protruding shapes extending from it, resembling a stylized cross or a molecular structure. The background is a blurred blue suit and tie.

Rhei Life

Unique. Innovative.
Breakthrough.

**The key element
in healthcare for all**



**Delivering success to
our partners** across the globe
in a unique, cutting edge,
and innovative way.

 **Rhei Life**

The logo for Rhei Life, featuring a stylized white icon of a person with arms raised, followed by the text "Rhei Life" in a bold, white, sans-serif font.

Rhei Life



RHEI LIFE OVERVIEW

History: Founded in 2015, Rhei Life began as a privately-owned startup in Serbia and the UAE. Initially, the company focused on the Balkan markets, specializing in the importation of unregistered medicines and representing various pharmaceutical companies. Over the years, **Rhei Life expanded its operations to include European, Middle Eastern, North African, and Southeast Asian markets.**



WHO WE ARE

Rhei Life is a dynamic pharmaceutical company with a strong global presence. We have established **over 130 partnerships across 45+ countries**, demonstrating our commitment to innovation and collaboration in the pharmaceutical industry.

Signed



ACHIEVEMENTS

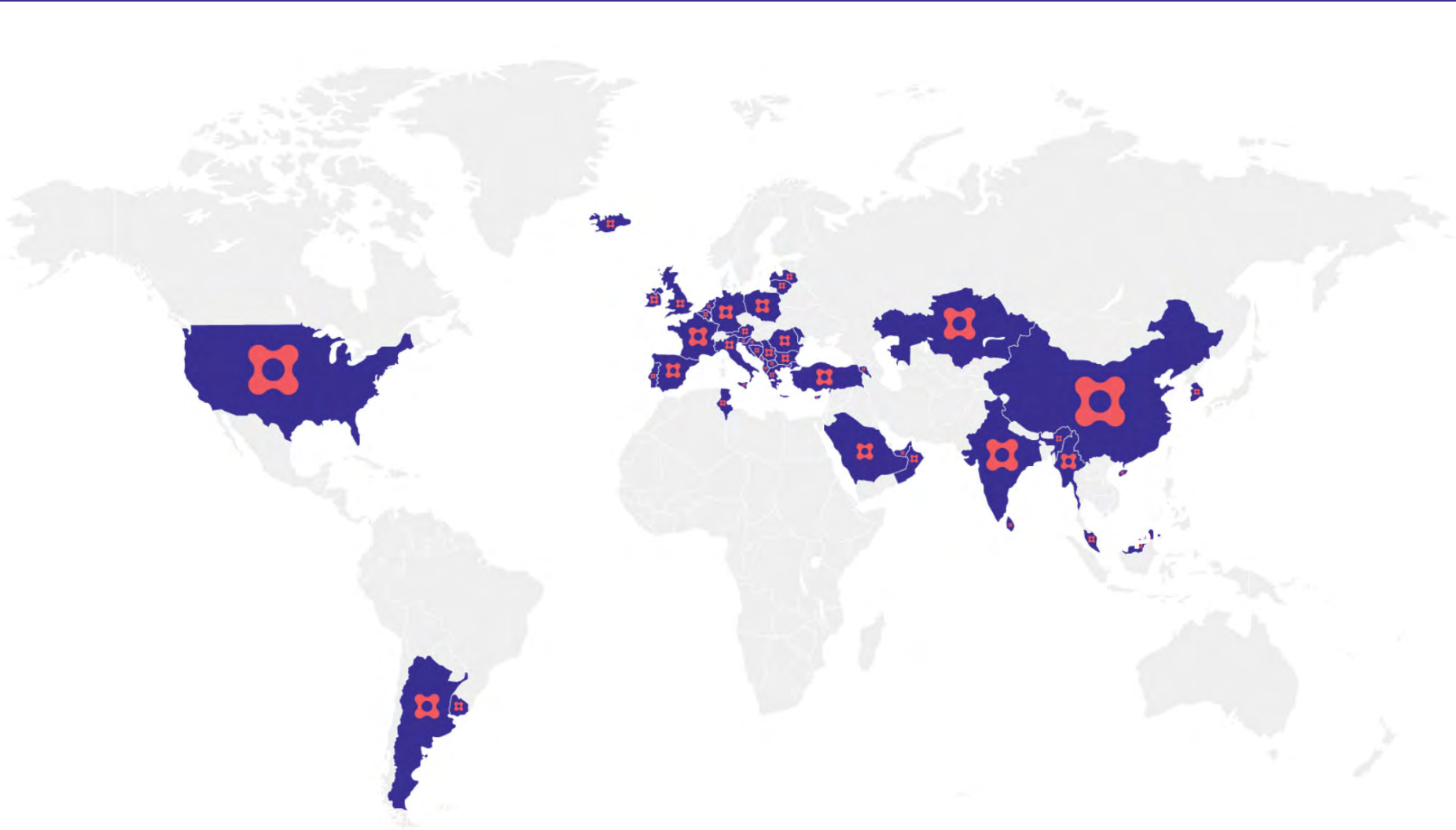
Industry Partners: Our partnerships include some of the largest pharmaceutical companies, such as Teva, Stada, Zentiva, Dr Reddy's, Sun Pharma, Walgreens Boots Alliance, Duopharma, Recordati Rare Diseases, Sinopharm, Hetero and others

- ▶ **MA holder and Distribution:** We collaborate with more than **25 manufacturers globally** for our operations in over 10 East European markets, with **253 SKUs submitted** to national authorities and **87 SKUs already granted**.
- ▶ **European Operations for our in house developed retail B2B portfolio:** Our products are manufactured through CDMOs facilities in **9 European countries:** Italy, Spain, Serbia, Lithuania, Greece, Malta, Turkey, Ireland, and Romania.



Supplier Network: We have forged active relationships with **76 suppliers** from **32 countries**.

Customer Reach: Since our inception, we've engaged with over **72 customers** from **34 countries**.





FUTURE VISION

Rhei Life aims to continue its growth by focusing on two main directions:

LICENSING

We collaborate efficiently with other pharmaceutical companies, enhancing our R&D capabilities to develop new products in the **OTC** (Food Supplements, Medical Devices, Medicines) and **Gx** categories.

Our goal is to sell and out license these products in over 100 markets by 2028., so far we reached 34 markets.

With our established presence in both **Gx and OTC** across several key Eastern EU countries and the entire Balkan region, we are actively seeking differentiated and value-added products to enhance our existing pipeline. Our goal is to leverage these products to bolster our market position and facilitate expansion into new countries.

 **CLICK** on each product to be
redirected to product page



NEUROLOGY



WOUND CARE



PAIN RELIEF



GASTROENTEROLOGY



GYNECOLOGY



HEALTH & WELLBEING



DERMATOLOGY



OPHTHALMOLOGY



COUGH & COLD



UROLOGY



NEUROLOGY

CAPSULES

Food supplement



WOUND CARE

HYDROGEL AND LIQUID SPRAY

Medical device

Nerviplex Nerviplex forte



COMPOSITION

NERVIPLEX

- UMP
- Niacin
- Vitamin B6
- Vitamin B1
- Folate
- Vitamin B12

NERVIPLEX FORTE

- UMP
- CMP
- Vitamin B1
- Vitamin B12

CHARACTERISTICS AND EFFECTS

Nerviplex and Nerviplex forte are nucleotide-based food supplements, with high concentration of nucleotides of pyrimidine bases and vitamins indicated for treatment of peripheral neuropathies. Nucleotides act directly by regenerating damaged nerves, improving myelin sheath regeneration, increasing motor neuron conduction and accelerating axonal flow rate.

KEY ADVANTAGES

Both products are in ongoing clinical trials (double blind, placebo controlled) to demonstrate efficacy and safety in patients with carpal tunnel syndrome (Nerviplex), and diabetic polyneuropathy (Nerviplex Forte).

CLICK



Effigerm Wound Wash



COMPOSITION

- Hypochlorous acid (HOCl) 0,016%

CHARACTERISTICS AND EFFECTS

Effigerm is a convenient spray liquid and hydrogel formulation that utilizes a patented technology that harnesses the power of hypochlorous acid, a naturally occurring substance in the body, to mimic the immune system's response. It serves multiple purposes in wound care, including cleansing, debriding, and preventing infections.

KEY ADVANTAGES

Supported by clinical data. Suitable for managing a variety of skin wounds such as abrasions, lacerations, cuts, burns, and even intact skin, it also functions as a wound irrigation solution, aiding in moistening and irrigation. The solution is effective for soothing sore, irritated skin and has been shown to treat and prevent biofilm formation.

CLICK



FOR MORE
DETAILED
PRESENTATION



PAIN RELIEF

CAPSULES

Food supplement



PAIN RELIEF

PREFILLED SYRINGE

Medical device

Rheipeptidase Rheipeptidase forte



COMPOSITION

RHEIPEPTIDASE

- 60.000 SPU*
- *SPU = serrapeptase units

RHEIPEPTIDASE FORTE

- 120.000 SPU*
- * SPU = serrapeptase units

CHARACTERISTICS AND EFFECTS

- Surgery
- Otorhinolaryngology (ENT – ear, nose, throat)
- Obstetrics and Gynecology.
- Orthopedics
- Pulmology

KEY ADVANTAGES

- Serrapeptase is showing:
- Strong fibrinolytic action
 - The strong effect on the degradation of bradykinin
 - Elimination of inflammation swelling
 - It helps the dilution and elimination of phlegm, pus and blood bruises (hematoma)
 - Improves the antibiotic action

CLICK FOR MORE DETAILED PRESENTATION

VIPlus



COMPOSITION

HA (hyaluronic acid)

- 20 mg/2 ml
- 32 mg/2 ml
- 40 mg/2 ml
- 48 mg/2 ml

HA (hyaluronic acid)

- 60 mg/2 ml
- 60 mg/3 ml
- 72 mg/3 ml
- 90 mg/3 ml

CHARACTERISTICS AND EFFECTS

VIPlus offers a wide range of HA concentrations and volumes for all types of joints and patients.

- Linear Hyaluronic acid
- Cross-linked Hyaluronic acid

Substitute of synovial fluid into joints affected by degenerative or mechanical OA that gives pain or reduced mobility.

KEY ADVANTAGES

It contains HA from bio fermentative origin: highly purified, sterile, non-pyrogenic formulation and chemically unmodified. Also HA is non-animal origin (good for vegans, different religious customs). Cross-linked hyaluronic acid is longer-lasting and more stable compared to non-cross-linked or natural hyaluronic acid.

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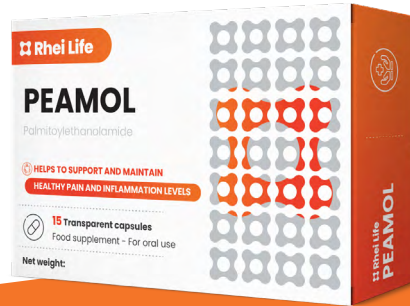


PAIN RELIEF

CAPSULES

Food supplement

Peamol



COMPOSITION

- Palmitoylethanolamide

CHARACTERISTICS AND EFFECTS

PEAMOL is palmitoylethanolamide indicated for chronic pain therapy in various etiopathogenesis (radiculopathy, osteoarthritis, herpes zoster, diab. neuropathy, failed back surgery, oncological, other diseases)

KEY ADVANTAGES

Nobel Prize winner Rita Levi-Montalcini in 1993 identified PEA as a naturally occurring molecule, describing its value in treating chronic infections and pains. PEA has been shown to have neuroprotective, anti-inflammatory and analgesic properties.

CLICK



FOR MORE
DETAILED
PRESENTATION



PAIN RELIEF

SACHETS

Food supplement

Peamol forte



COMPOSITION

- Palmitoylethanolamide
- Magnesium
- Vitamin B6
- Vitamin B12

CHARACTERISTICS AND EFFECTS

PEAMOL forte is combination of PEA (palmitoylethanolamide), magnesium and vitamin B6 and B12. It is indicated for chronic pain therapy in various etiopathogenesis (radiculopathy, osteoarthritis, herpes zoster, diab. neuropathy, failed back surgery, oncological, other diseases)

KEY ADVANTAGES

Nobel Prize winner Rita Levi-Montalcini in 1993 identified PEA as a naturally occurring molecule, describing its value in treating chronic infections and pains. PEA has been shown to have neuroprotective, anti-inflammatory and analgesic properties.

CLICK

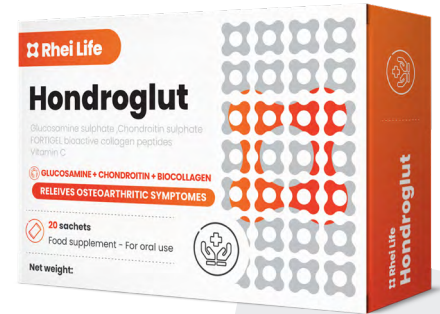


FOR MORE
DETAILED
PRESENTATION



PAIN RELIEF
SACHETS
Food supplement

Hondroglut



COMPOSITION

- Glucosamine sulphate (crystalline)
- Chondroitin sulphate
- Fortigel bioactive collagen peptides
- Vitamin C

CHARACTERISTICS AND EFFECTS

Hondroglut is a chondroprotector – a unique formula that contains therapeutically effective concentrations of glucosamine sulfate and chondroitin sulfate in one daily dose, with the addition of Fortigel® bioactive collagen peptides. Hondroglut contains crystalline glucosamine sulfate, the only form that has shown efficacy and safety in clinical trials in knee OA.

KEY ADVANTAGES

Supported by clinical trials for FORTIGEL® which directly stimulates chondrocytes to synthesize collagen type II and proteoglycans, thus leading to cartilage regeneration.

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PRESENTATION

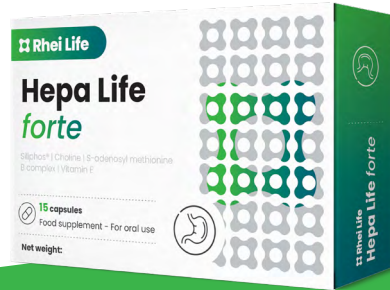


GASTROENTEROLOGY

CAPSULES

Food supplement

Hepalife forte



COMPOSITION

- Siliphos® = silybin + phosphatidylcholine
- S-adenosyl-L-methionine (SAME)
- Choline L-bitartrate
- Vitamin E
- Vitamin B complex

CHARACTERISTICS AND EFFECTS

HEPALIFE forte is a unique hepatoprotector that contains one patented active ingredient (Siliphos®), SAME, choline, vitamin E and B complex for rapid liver recovery (NAFLD, MAFLD, chronic inflammatory liver disease, treatment of toxic liver damage, ancillary therapy for liver cirrhosis, chronic damage from bile stone).

KEY ADVANTAGES

Supported by clinical trial for one patented ingredient Siliphos®. The bioavailability of silybin from Siliphos® is 4.6 times higher than that of classical silymarin, making it highly effective in the therapy of NAFLD and MAFLD.

CLICK  **FOR MORE DETAILED PRESENTATION**

 **Rhei Life**



GASTROENTEROLOGY

CAPSULES/SACHETS

Food supplement

Butirhei Butirhei forte



COMPOSITION

- Sodium butyrate microgranulated
- Inulin (FOS)
- Vitamin D3

CHARACTERISTICS AND EFFECTS

Food for special medical purposes with sodium butyrate, inuline, vitamin D3 for use in dietary management in the case of intestinal disorders and in the case of intestinal diseases:

- IBS
 - Colon diverticulosis
 - IBD
 - Diarrhoea of various pathogenesis
- Intestinal disorders caused by:
- use of antibiotics
 - radiotherapy
 - chemotherapy
 - intestinal infection

KEY ADVANTAGES

As a postbiotic, butyric acid is the main source of nutrition for colonocytes. Butyric acid has many different roles in the intestine such as resorption stimulation and mobility, regenerate, acts anti-inflammatory and strengthens intestinal barrier.

CLICK  **FOR MORE DETAILED PRESENTATION**



GASTROENTEROLOGY

DUAL SACHETS
Food supplement



GASTROENTEROLOGY

SACHETS
Medical device

DuoCare



COMPOSITION

- Magnesium
- Potassium
- Sodium
- Chloride
- Lactobacillus rhamnosus GG

CHARACTERISTICS AND EFFECTS

DuoCare contains a balanced blend of glucose, electrolyte, minerals and Lactobacillus Rhamnosus GG strain. Indicated for different types of diarrhea (infectious, antibiotic associated, chronic), persisting vomiting, fevers accompanied by intense sweating, after sports and exercise, travel and hot climates.

KEY ADVANTAGES

DuoCare comes in a dual-chambered sachet in order to separate and preserve basically two products in one. One chamber contain electrolytes, and another one probiotic strain.

CLICK  FOR MORE DETAILED PRESENTATION

Rhei clear Plus



COMPOSITION

- Diosmectite

CHARACTERISTICS AND EFFECTS

Symptomatic treatment of acute and chronic diarrhoea, and associated GI painful symptoms (Significantly shortens duration and reduces frequency of diarrhoea in children and adults.) Suitable for all diarrhoea episodes irrespective of the underlying cause. Reduces the costs of treating gastroenteritis.

KEY ADVANTAGES

Suitable for the whole family from age 1 plus. Pleasant Orange flavour. Natural actives - Has high safety profile with no systemic side effect.

CLICK  FOR MORE DETAILED PRESENTATION



GASTROENTEROLOGY

SACHETS

Medical device



GASTROENTEROLOGY

SACHETS

Food supplement

Refluzid



COMPOSITION

- Alginates
- Mucopolysaccharides HMW from Opuntia
- Potato protein extract
- Bicarbonates

CHARACTERISTICS AND EFFECTS

This natural product prevents the reflux of gastric content into the esophagus: in contact with the gastric acid, the alginate changes its physical state evolving in a gelled form of alginic acid which stratifies on the mucosa, while the bicarbonate releases carbon dioxide molecules.

KEY ADVANTAGES

It is indicated in cases of gastric pyrosis, epigastric pains, esophagitis, irritative cough and regurgitation caused by gastric reflux in adults and children over 12 years and even during pregnancy.

CLICK



FOR MORE
DETAILED
PRESENTATION

 Rhei Life

Rheigerd gel



COMPOSITION

- Sodium hyaluronate
- Sodium alginate
- L-Tryptophan
- AloeVera
- Musa Paradisiaca

CHARACTERISTICS AND EFFECTS

Rheigerd gel is food supplement based on hyaluronic acid, sodium alginate, L-Tryptophan, Aloe Vera and Musa Paradisiaca.

INDICATION:

- GERD
- NERD
- heartburn
- reflux oesophagitis
- reflux night-time symptoms
- cough and laryngopharyngeal inflammation

KEY ADVANTAGES

It is clinically proven that this formulation were able to achieve a statistically significant reduction of severity and frequency of symptoms in patients with NERD, without any documented side effect.

CLICK



FOR MORE
DETAILED
PRESENTATION



GYNECOLOGY

GASTRO-RESISTANT TABLETS
Food supplement



GYNECOLOGY

CAPSULES
Food supplement

Lekolid



COMPOSITION

- Quercetin
- Turmeric
- N-acetylcysteine

CHARACTERISTICS AND EFFECTS

LEKOLID™ is a food supplement containing quercetin, turmeric and N-acetylcysteine (formulated with ENDOBASP® technology). This product has a triple effect by blocking the growth of endometrial tissue, relieving pain and inflammation, and relieving oxidative stress.

KEY ADVANTAGES

ENDOBASP® technology is a patented innovative technology which, thanks to the synergy of absorption drivers, makes active ingredients in LEKOLID highly bioavailable in the small intestine and improves anti-inflammatory and antiproliferative activity. Supported by clinical trial.

CLICK  FOR MORE DETAILED PRESENTATION

Rheifer



COMPOSITION

- Iron (microencapsulated)
- Vitamin C
- Quatrefolic®

CHARACTERISTICS AND EFFECTS

Rheifer is an innovative solution for iron supplementation with reduced adverse effects during iron administration.

- High absorption and efficacy
- Does not color the mucosa and feces
- Excellent tolerability
- Innovative delivery system
- No oxidation of fats and vitamins
- No metal taste, gentle to stomach
- Contains an active form of folate (MTHF- Quatrefolic®)

KEY ADVANTAGES

Clinical data supporting efficacy of micro capsulated iron. Iron microcapsule contains lecithin, which is an absorption enhancer. It shows about 3.5 times better absorption than iron pyrophosphate, 2.7 times better than iron sulfate, and almost 5 times higher than ferrous fumarate, one of the most bioavailable salts commonly used in the market.

CLICK  FOR MORE DETAILED PRESENTATION



GYNECOLOGY

VAGINAL GEL
Medical device



GYNECOLOGY

VAGINAL PESSARIES
Medical device

Rheintima gel



COMPOSITION

- Trisolve P® (Trehalose, Ceramides and Phytosterols)
- Hyaluronic acid
- Vitamin E

CHARACTERISTICS AND EFFECTS

Rheintima gel represents a vaginal gel, patented formulation with moisturizing, lubricating and restorative/repairing action, counteracts vulvovaginal dryness and related disorders. Tri-Solve P®, patented compound based on ceramides and a natural disaccharide (trehalose) with moisturizing and repairing activity.

KEY ADVANTAGES

Rheintima gel regenerates the vulvovaginal mucosa with a double action. Tri-Solve P® acts on the surface to repair, while hyaluronic acid and vitamin E work deeper to provide the necessary hydration.

CLICK  FOR MORE DETAILED PRESENTATION

 Rhei Life

Hyalac ovules



COMPOSITION

- Hyaluronic acid
- Lactic acid
- Polycarbophil
- Phosphatidylcholine
- Tea Tree Oil
- Vitamin E
- Vitamin A
- 18-Beta-Glycyrrhetic Acid

CHARACTERISTICS AND EFFECTS

Hyalac ovules is a medical device that helps to keep intact the natural defenses of the vagina and facilitates the restoration of the vaginal flora. Useful in the prevention and treatment of vaginal dryness of non-specific character and in the case of atrophic vaginitis. Adjuvant in case of irritation, vaginal burning and itching and in vaginal diseases of inflammatory and infectious nature.

KEY ADVANTAGES

Ongoing clinical trials on patients with low risk HPV cervical intraepithelial lesions and mild cervical intraepithelial lesions. Suitable for women of childbearing age, menopause and perimenopause.

CLICK  FOR MORE DETAILED PRESENTATION



HEALTH & WELLBEING

SACHETS

Food supplement

Amivit Immuno



COMPOSITION

- Vitamins
- Minerals
- Amino acids

CHARACTERISTICS AND EFFECTS

Amivit Immuno is a special combination of vital nutrients, encompassing amino acids, vitamins, and minerals, designed to sustain daily nutritional need. It is recommended for different immunodeficiency conditions, after chemotherapy and radiation therapy, and periods of increased physical and mental exertion.

KEY ADVANTAGES

The addition of the amino acids lysine, arginine, and carnitine enhances this multivitamin and multimineral combination. The use of multivitamin products as well as amino acids is strongly supported by clinical studies.



FOR MORE DETAILED PRESENTATION



HEALTH & WELLBEING

GUMMIES

Food supplement

Kids gummies

Adults gummies



COMPOSITION

- Kids gummies
- Adult gummies

CHARACTERISTICS AND EFFECTS

Kids gummies are the perfect way to ensure your child is getting the vitamins they need to stay fit and healthy. Best of all, they taste so good, they'll be coming back for more nutrient filled gummies.

Adult gummies are perfect for the busy adult always on the go, but keen to make sure they get the nutrients they need to maintain a healthy body and mind.

KEY ADVANTAGES

- Different formulation of gummies.
- Free of artificial colors, flavors, gluten, lactose, wheat and yeast.
- With 30 servings per tub.



FOR MORE DETAILED PRESENTATION



DERMATOLOGY

PREFILLED SYRINGE

Medical device

Derma Secret



COMPOSITION

- Hyaluronic acid
- BDDE

CHARACTERISTICS AND EFFECTS

Derma Secret range of hyaluronic acid-based fillers, which have different range offers high quality HA fillers for the face and body that are meticulously crafted in Italy using advanced manufacturing processes and state-of-the-art technology and equipment. The incorporation of BDDE crosslinking, the gold standard, distinguishes Derma Secret Fillers as a premium brand in the filler market.

KEY ADVANTAGES

Due to MFHA and MMA technology Derma Secret fillers have a lower G' compared to other fillers, this clinically means more "fluid" filler easy to be injected, like the vycross technology but without side effects such as tardive nodules/swelling.



OPHTHALMOLOGY

SACHETS

Food supplement

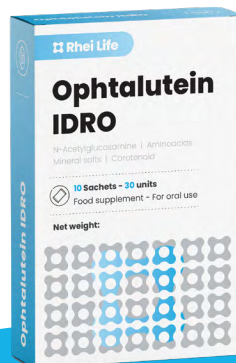


OPHTHALMOLOGY

GEL

Medical device

Ophtalutein IDRO



COMPOSITION

- N-Acetylglucosamine
- Aminoacids (Arginine, Ornithine, Hydroxyproline)
- Mineral salts (Magnesium, Zinc)
- Carotenoid (Dunaliella salina algae)

CHARACTERISTICS AND EFFECTS

This product promotes the maintenance of normal visual capacity and visual well-being especially indicated for:

- myodesopsia (eye floaters)
- eyelid myoclonia hypokalemia

KEY ADVANTAGES

It contains 10 triple-dose sachets (30 units in total). The dosage varies depending on the severity of the condition, from eye floaters to patients at risk of developing Posterior Vitreous Detachment (PVD) who require a higher level of hydration.

CLICK



FOR MORE DETAILED PRESENTATION

Periocularofta



COMPOSITION

- Tea tree (4-Terpineol)
- Hyaluronic acid
- Vitamin E
- Vitamin C
- Vitamin B3
- Aloe Vera
- Bisabolol
- Disodium EDTA
- Betaglukan
- Hesperidine
- Nucleotides

CHARACTERISTICS AND EFFECTS

Periocularofta is a periocular lipogel formulated with Terpeneol and plant extracts. This complete formula is designed for managing blepharitis and maintaining clean and healthy eyelids. It is indicated for blepharitis associated with Staphylococcus, Propionibacterium, and Demodex, as well as for rosacea, eyelid dermatitis, and itching.

KEY ADVANTAGES

Periocularofta offers dermatrophic, soothing, and emollient action for the periocular area. It is hypoallergenic, dermatologically tested, and provides a lipidizing effect. The gel absorbs quickly without drying the skin. It doesn't create resistance on antibiotics.

CLICK



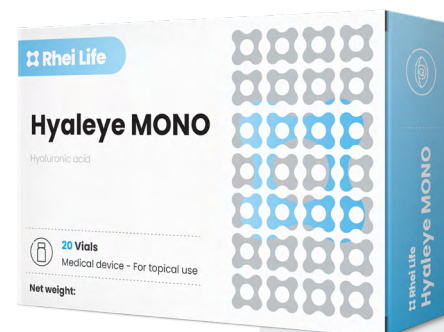
FOR MORE DETAILED PRESENTATION



OPHTHALMOLOGY

VIALS
Medical device

Hyaleye MONO



COMPOSITION

- Hyaluronic acid 0.2%

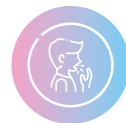
CHARACTERISTICS AND EFFECTS

Hyaleye Mono vials with hyaluronic acid represent a medical device which has excellent water binding properties and is therefore very suitable for lubricating the conjunctiva and cornea.

The best response to symptoms such as dry eyes, burning, blurred vision, foreign body sensation, photophobia, itching and pain.

KEY ADVANTAGES

0.2% pure macromolecular hyaluronic acid-based tear with broad spectrum. Compared with the use of other 0.15% hyaluronic acid or low molecular weight eye drops, the use of Hyaleye MONO ensures a rapid improvement of the epithelial pain, the instability of the tear film and the signs of inflammation and corneal irritation. Clinically proven in case of dry eyes.



COUGH & COLD

SPRAY

Medical device

Tyndalac spray



COMPOSITION

- Lactobacillus Rhamnosus

CHARACTERISTICS AND EFFECTS

Tyndalac spray is a medical device that is supportive in inflammation of the mouth and throat associated with bacterial or fungal infection. Provide the relief of symptoms, such as dry mouth, dry cough, itchy throat, difficulties with swallowing.

KEY ADVANTAGES

Tyndallised (non-viable) Lactobacillus rhamnosus HA-III bacteria coat the mucous membrane of the mouth and throat, forming a protective film; they provide better conditions for the regeneration of the mucous membrane and accelerate the restoration of the physiological flora of the mouth and throat. Xylitol has an anticariogenic effect. It is recommended for children over 3 years of age and adults.



UROLOGY

SACHETS

Food supplement

Relidon

COMPOSITION

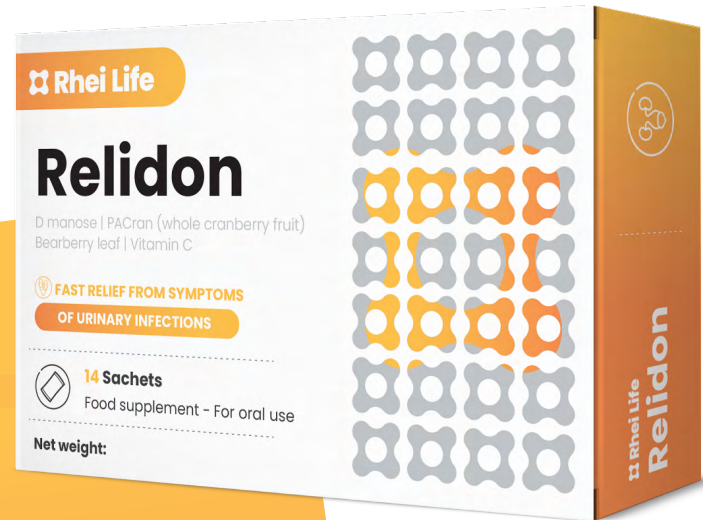
- D-mannose
- Vitamin C
- **PACran® (whole cranberry fruit)**
- Dry bearberry leaf extract

CHARACTERISTICS AND EFFECTS

Relidon™ is a dietary supplement designed for the prevention and assistance in treating acute and recurrent urinary tract infections (UTIs). The product features a unique combination of cranberry extract (PACran®), D-mannose, bearberry leaf extract, and vitamin C.

KEY ADVANTAGES

- **Broad Spectrum Efficacy:** Effectively prevents and helps treat both acute and recurrent UTIs by targeting multiple bacterial strains, including E. coli, which is responsible for 85–90% of UTIs.
- **Natural and Safe:** Non-antibiotic alternative for managing UTIs, reducing the need for antibiotics and the associated risk of antibiotic resistance.
- **Long-Lasting Protection:** The PACran® offers prolonged bacterial anti-adhesion activity, with effectiveness lasting up to 24 hours, compared to standard cranberry extracts, which diminish after 10 hours.





CLICK on each product to be redirected to product page



NEUROLOGY



PAIN RELIEF



GASTROENTEROLOGY



GYNECOLOGY



HEMATOLOGY



SYSTEMIC
CORTICOSTEROIDS



SYSTEMIC
ANTI-INFECTIVES



SYSTEMIC ANTI-INFECTIVES CAPSULES



Nitrofurantoin



ATC code: J01XE01
INN: nitrofurantoin
Pharmaceutical form:
hard capsules
Dose: 50mg

INDICATION:

for the treatment of and prophylaxis against acute or recurrent, uncomplicated lower urinary tract infections or pyelitis either spontaneous or following surgical procedures. It is indicated in adults, children and infants over 3 months old. Nitrofurantoin is specifically indicated for the treatment of infections when due to susceptible strains of *Escherichia coli*, enterococci, staphylococci, *Citrobacter*, *Klebsiella* and *Enterobacter*.

PHARMACODYNAMIC PROPERTIES:

Nitrofurantoin is a broad spectrum antibacterial agent, active against the majority of urinary pathogens. The wide range of organisms' sensitive to the bactericidal activity includes: *Escherichia coli*, *Enterococcus Faecalis*, *Klebsiella* Species, *Enterobacter* Species, *Staphylococcus* Species (e.g. *S.Aureus*, *S.Saprophyticus*, *S.Epidermidis*), *Citrobacter* Species. Clinically most common urinary pathogens are sensitive to Nitrofurantoin.

Instructions for use:

Acute Uncomplicated Urinary Tract Infections (UTIs):

Adults: 50 mg four times daily for seven days.

Children and Infants over three months of age: 3mg/kg day in four divided doses for seven days.

References:

1. SmPC Nitrofurantoin, 50mg Capsules, Hard.



SYSTEMIC ANTI-INFECTIVES

POWDER FOR SOLUTION FOR INJECTION

Gx

Polymyxin B



ATC code: J01XB02
INN: polymyxin B sulphate
Pharmaceutical form:
powder for solution for injection
Dose: USP 500,000 Units

INDICATION:

Polymyxin B sulfate is a drug of choice in the treatment of infections of the urinary tract, meninges and blood stream caused by susceptible strains of *Pseudomonas aeruginosa*. It may be indicated in serious infections caused by susceptible strains of the following organisms, when less potentially toxic drugs are ineffective or contraindicated: *H. influenza*, specifically meningeal infections; *Escherichia coli*, specifically urinary tract infections; *Aerobacter aerogenes*, specifically bacteremia; *Klebsiella pneumonia*, specifically bacteremia.

PHARMACODYNAMIC PROPERTIES:

Polymyxin B sulfate has a bactericidal action against almost all gram-negative bacilli except the *Proteus* group. Polymyxins increase the permeability of the bacterial cell membrane leading to death of the cell.

Instructions for use:

The dosage depends on the age and condition of the patient, as well as on the method of administration (intravenous, intramuscular, intrathecal). When talking about intravenous administration, the dosage for adults and children is 15,000 to 25,000 units/kg body weight/day in individuals with normal kidney function.

References:

1. SmPC Polyfic, 500,000 Units powder for solution for injection.



SYSTEMIC ANTI-INFECTIVES

POWDER FOR SOLUTION FOR INFUSION

Gx

Voriconazole



ATC code: : J02AC03
INN: voriconazole
Pharmaceutical form:
powder for solution for infusion
Dose: 200 mg

INDICATION:

Voriconazole, is a broad-spectrum, triazole antifungal agent and is indicated in adults and children aged 2 years and above as follows:

- Treatment of invasive aspergillosis.
- Treatment of candidaemia in non-neutropenic patients.
- Treatment of fluconazole-resistant serious invasive Candida infections (including *C. krusei*). Treatment of serious fungal infections caused by *Scedosporium* spp. and *Fusarium* spp.

Vortimal should be administered primarily to patients with progressive, possibly life-threatening infections. Prophylaxis of invasive fungal infections in high risk allogeneic hematopoietic stem cell transplant (HSCT) recipients.

PHARMACODYNAMIC PROPERTIES:

Voriconazole is a triazole antifungal agent. The primary mode of action of voriconazole is the inhibition of fungal cytochrome P450-mediated 14 alpha-lanosterol demethylation, an essential step in fungal ergosterol biosynthesis. The accumulation of 14 alpha-methyl sterols correlates with the subsequent loss of ergosterol in the fungal cell membrane and may be responsible for the antifungal activity of voriconazole. Voriconazole has been shown to be more selective for fungal cytochrome P-450 enzymes than for various mammalian cytochrome P-450 enzyme systems.

Instructions for use:

Therapy must be initiated with the specified loading dose regimen of either intravenous or oral Vortimal to achieve plasma concentrations on Day 1 that are close to steady state. On the basis of the high oral bioavailability (96%), switching between intravenous and oral administration is appropriate when clinically indicated. For intravenous application loading dose regimen (first 24 hours) is 6 mg/kg every 12 hours, while maintenance dose (after first 24 hours) is 4 mg/kg twice daily. Treatment duration should be as short as possible depending on the patient's clinical and mycological response.

References:

1. SmPC Vortimal, 200 mg powder for solution for infusion.



SYSTEMIC ANTI-INFECTIVES

POWDER FOR INJECTION/INFUSION

Gx

Colistimethate



ATC code: : Colistin
INN: colistimethate sodium
Pharmaceutical form:
powder for solution for infusion
Dose: 1000000 or 2000000 IU

INDICATION:

Colistimethate sodium is indicated in adults and children, including neonates, for the treatment of severe infections caused by certain aerobic Gram-negative bacteria in patients with limited treatment options.

PHARMACODYNAMIC PROPERTIES:

Colistin is a cyclic polypeptide antibacterial drug that belongs to the polymyxin group. Polymyxins work by damaging the cell membrane, and the result of this physiological effect is lethal to the bacterium. Polymyxins selectively act on aerobic Gram-negative bacteria that have a hydrophobic outer membrane.

Instructions for use:

The maintenance dose is 9 million IU/day divided into 2-3 individual doses. In critically ill patients, it is necessary to apply a shock dose of 9 million IU.

References:

1. SmPC Colistin, 1000000 IU powder for injection/infusion.



NEUROLOGY

TABLETS

Gx

Vinpocetine



ATC code: N06BX18

INN: vinpocetine

Pharmaceutical form: tablets

Dose: 5 or 10mg

INDICATION:

alleviation of neurological and psychological symptoms in patients with chronic cerebral circulation disorders.

PHARMACODYNAMIC PROPERTIES:

Vinpocetine selectively increases cerebral blood flow: increases the cerebral fraction of minute volume; reduces cerebral vascular resistance without affecting systemic circulation parameters (blood pressure, cardiac output, pulse frequency, total peripheral resistance). Vinpocetine also has a neuroprotective effect, improves cerebral microcirculation and stimulates cerebral metabolism.

Instructions for use:

for adults it is recommended to take 1-2 tablets three times a day during the first 30 days of therapy. After that, daily intake can be reduced to one tablet (5mg) three times a day. The maximum daily dose is 30 mg.

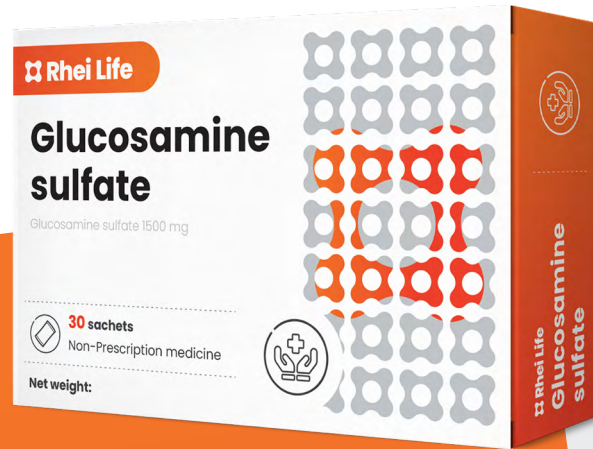
References:

1. SmPC Vinpocetine, 5mg tablets.



PAIN RELIEF
SACHETS

Glucosamine sulfate



OTC

ATC code: M01AX05

INN: glucosamine sulfate

Pharmaceutical form: powder
for oral solution

Dose: 1500 mg

INDICATION:

Metaspon is indicated for the relief of symptoms in mild and moderate osteoarthritis of the knee.

PHARMACODYNAMIC PROPERTIES:

Glucosamine sulfate is a natural aminomonosaccharide that plays an important role in the biosynthesis of cartilage proteoglycans. Glucosamine is an endogenous substance, a common building block of normal polysaccharide chains in cartilage matrix and glycosaminoglycans in synovial fluid. In vitro studies have shown that glucosamine via chondrocytes stimulates the synthesis of physiological glycosaminoglycans and proteoglycans and the synthesis of hyaluronic acid via synoviocytes.

Instructions for use:

The usual dose is one sachet per day, containing 1500 mg of glucosamine sulfate, which corresponds to 1178 mg of glucosamine, for a period of 3 months, which may be followed by a two-month break. Then the treatment continues and the same cycle is repeated.

References:

1. SmPC Metaspon, 1500mg powder.



GASTROENTEROLOGY
HARD CAPSULES



ATC code: A05BA03

INN: silymarin

Pharmaceutical form: hard capsules

Dose: 140 mg

Silymarin



INDICATION:

As an additional medicine used by adults to treat chronic hepatitis, liver cirrhosis and liver toxic injury.

PHARMACODYNAMIC PROPERTIES:

According to literature silymarin and silibin works in four ways:

1. cause antioxidant and intracellular glutathione concentration and free radicals regulating binding effect;
2. stabilizes cell membrane and regulates its penetrability, in such way stops hepatoxins intervention in to hepatocits;
3. stimulates the synthesis of RNA in the ribosome also stimulates the regeneration of the liver and
4. inhibits hepatocyte transformation into myofibroblasts – a process responsible for the accumulation of collagen fibers in liver during liver cirrhosis.

Instructions for use:

The recommended dose of Rheisilymarin for adults is 280–420 mg, equivalent to 1 capsule 2–3 times/day. The duration of the treatment should be at least 3 months.

References:

1. SmPC Rheisilymarin, 140 mg hard capsules.



GASTROENTEROLOGY

PRUCALOPRIDE SUCCINATE



Prucalopride



INDICATION:

is indicated for symptomatic treatment of chronic constipation in adults in whom laxatives fail to provide adequate relief.

PHARMACODYNAMIC PROPERTIES:

Prucalopride has gastrointestinal prokinetic activity. Prucalopride is a selective agonist of high affinity for serotonin receptors (5-HT₄), which explains its prokinetic effect on gastric, intestinal and smooth muscles of colon. Prucalopride does not affect the function of glycoprotein P or cytochrome P450 and is not extensively metabolized in the body.

ATC code: A06AX05

INN: prucalopride succinate

Pharmaceutical form:
prucalopride succinate

Dose: 1 or 2 mg

Instructions for use:

Prucalopride can be used for a period of 4 weeks

European society of neurogastroenterology and motility guidelines on functional constipation in adults

The serotonin (5-HT)₄ agonist prucalopride has prokinetic action in the entire gut and is effective in the management of chronic constipation, including conditions refractory to conventional laxatives

Level of evidence

High

Level of agreement

100%

Recommendation

Strong



GASTROENTEROLOGY

POWDER FOR SOLUTION FOR INJECTION/INFUSION

Gx

Esomeprazole



ATC code: A02BC05
INN: esomeprazole
Pharmaceutical form: powder for solution for injection/infusion
Dose: 40 mg

INDICATION:

ESOMEPRAZOLE IS INDICATED IN ADULTS FOR:

- Gastric antisecretory treatment when the oral route is not possible, such as:
 - gastroesophageal reflux disease (GERD) in patients with esophagitis and/or severe symptoms of reflux,
 - healing of gastric ulcers associated with Nonsteroidal Anti-inflammatory drug (NSAIDs) therapy,
 - prevention of gastric and duodenal ulcers associated with NSAID therapy, in patients at risk,
- prevention of rebleeding following therapeutic endoscopy for acute bleeding gastric or duodenal ulcers.

ESOMEPRAZOLE IS INDICATED IN CHILDREN AND ADOLESCENTS AGED 1-18 YEARS FOR:

- Gastric antisecretory treatment when the oral route is not possible, such as:
 - gastroesophageal reflux disease (GERD) in patients with erosive reflux esophagitis and/or severe symptoms of reflux.

PHARMACODYNAMIC PROPERTIES:

Esomeprazole (S-isomer of omeprazole) is a weak base and is concentrated and converted to the active form in the highly acidic environment of the secretory canaliculi of the parietal cell, where it inhibits the enzyme H⁺ K⁺-ATPase - the acid pump and inhibits both basal and stimulated acid secretion.

Instructions for use:

Adults: Patients who cannot take oral medication may be treated parenterally with 20-40 mg once daily.

Children and adolescents (1-18 years): Patients who cannot take oral medication may be treated parenterally once daily, as a part of a full treatment period for GERD. The dose depends on age and weight, and ranges from 10 to 40 mg once a day.

References:

1. SmPC Solezol, 40 mg powder for solution for injection/infusion.

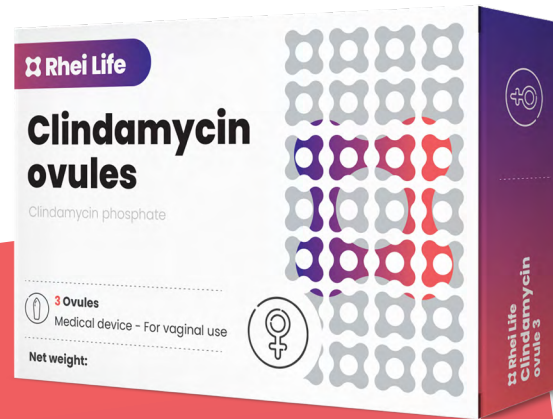


GYNECOLOGY

VAGINAL OVULES



Clindamycin ovules



INDICATION:

is indicated for the treatment of bacterial vaginosis (formerly referred to as Haemophilus vaginitis, Gardnerella vaginitis, nonspecific vaginitis, Corynebacterium vaginitis, or anaerobic vaginosis).

PHARMACODYNAMIC PROPERTIES:

Total systemic exposure to clindamycin is significantly lower when vaginal suppositories are used compared to systemic exposure to therapeutic doses of oral clindamycin (twice to 20 times lower) or parenteral clindamycin (40 to 50 times lower).

ATC code: J01FF01
INN: clindamycin phosphate
Pharmaceutical form:
vaginal ovules
Dose: 100 mg per ovule

Instructions for use:

The recommended dose is one ovula administered intravaginally for 3 consecutive days. It is desirable to apply ovules before bedtime.

KEY ADVANTAGES

Sexually Transmitted Infections Treatment Guidelines, 2021

Jack Sobel, Jeffrey F. Peipert, James A. McGregor, Charles Livengood, Maureen Martin, Jill Robbins, and Charles P. Wajszczu

Clindamycin ovules 100 mg intravaginally once at bedtime for 3 days

Efficacy of Clindamycin Vaginal Ovule (3-Day Treatment) vs. Clindamycin Vaginal Cream (7-Day Treatment) in Bacterial Vaginosis

Conclusions: A 3-day course of clindamycin vaginal ovules is as effective and well-tolerated as a 7-day course of clindamycin vaginal cream in the treatment of BV



HEMATOLOGY

FILM-COATED TABLETS

Gx

Eltrombopag



INDICATION:

Eltrombopag is indicated for the treatment of patients aged 1 year and above with primary immune thrombocytopenia (ITP) lasting 6 months or longer from diagnosis and who are refractory to other treatments (e.g. corticosteroids, immunoglobulins).

Eltrombopag is indicated in adult patients with chronic hepatitis C virus (HCV) infection for the treatment of thrombocytopenia, where the degree of thrombocytopenia is the main factor preventing the initiation or limiting the ability to maintain optimal interferon-based therapy.

Eltrombopag is indicated in adult patients with acquired severe aplastic anaemia (SAA) who were either refractory to prior immunosuppressive therapy or heavily pretreated and are unsuitable for haematopoietic stem cell transplantation.

PHARMACODYNAMIC PROPERTIES:

TPO is the main cytokine involved in regulation of megakaryopoiesis and platelet production, and is the endogenous ligand for the TPO-R. Eltrombopag interacts with the transmembrane domain of the human TPO-R and initiates signalling cascades similar but not identical to that of endogenous thrombopoietin (TPO), inducing proliferation and differentiation from bone marrow progenitor cells.

ATC code: B02BX 05

INN: eltrombopag olamine

Pharmaceutical form:

film-coated tablets

Dose: 25, 50 or 75 mg

Instructions for use:

Eltrombopag should be initiated at a dose of 25 mg once daily. A dose of 100 mg eltrombopag once daily must not be exceeded.

References:

1. SmPC Elpagate, 25 mg film-coated tablets.



SYSTEMIC CORTICOSTEROIDS

POWDER FOR SOLUTION FOR INJECTION

Methylprednisolone

INDICATION:

Pdsolone is indicated to treat any condition in which rapid and intense corticosteroid effect is required such as:

- Dermatological disease (severe erythema multiforme – Stevens–Johnson syndrome),
- Allergic states (bronchial asthma, angioneurotic oedema, anaphylaxis),
- Gastro-intestinal diseases (ulcerative colitis, Crohn's disease),
- Respiratory diseases (aspiration of gastric contents, fulminating or disseminated tuberculosis with appropriate anti-tuberculous chemotherapy),
- Neurological disorders (cerebral oedema secondary to cerebral tumour, acute exacerbations of multiple sclerosis superimposed on a relapsing-remitting background),
- Miscellaneous (T.B. meningitis with appropriate antituberculous chemotherapy), transplantation.



PHARMACODYNAMIC PROPERTIES:

Methylprednisolone is a corticosteroid with an anti-inflammatory activity at least five times that of hydrocortisone. An enhanced separation of glucocorticoid and mineralocorticoid effect results in a reduced incidence of sodium and water retention.

Gx

ATC code: H02AB04

INN: methylprednisolone

Pharmaceutical form:

powder for solution for injection

Dose: 40 or 500 mg

Instructions for use:

Pdsolone may be administered intravenously or intramuscularly, the preferred method for emergency use being intravenous injection given over a suitable time interval. When administering Pdsolone in high doses intravenously it should be given over a period of at least 30 minutes. Doses up to 250 mg should be given intravenously over a period of at least five minutes.

Adults: Dosage should be varied according to the severity of the condition, initial dosage will vary from 10 to 500 mg.

Paediatric population: In the treatment of graft rejection reactions following transplantation, a dosage of 10 to 20 mg/kg/day for up to 3 days, to a maximum of 1 g/day, is recommended. In the treatment of status asthmaticus, a dosage of 1 to 4 mg/kg/day for 1-3 days is recommended.

References:

1. SmPC Pdsolone, 40 mg powder for solution for injection.



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