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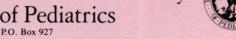
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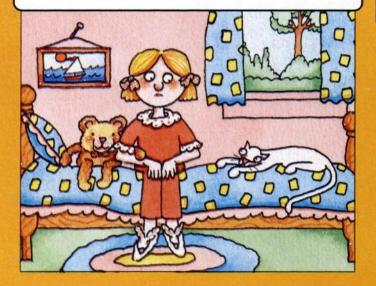
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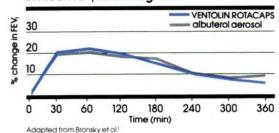
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*As with all sympathomimetic amines, albuterol should be used with caution in patients with cardiovascular disorders, especially coronary insufficiency, hypertension, and cardiac arrhythmia.

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Immunol. 1987;79:741-747.

Printed in USA

August 1989

Ventolin* Inhalation Aerosol (albuterol, USP) Bronchodilator Aerosol For Oral Inhalation Only

Ventolin Rotacaps* for Inhalation (albuterol sulfate, USP) For Inhalation Only

The following is a brief summary only. Before prescribing, see complete prescribing information in Ventolin® Inhalation Aerosol and Ventolin Rotacaps® for Inhalation product labeling.

CONTRAINDICATIONS: Ventolin® Inhalation Aerosol and Ventolin Rotacaps® for Inhalation are contraindicated in patients with a history of hypersensitivity to any of their components.

patients with a history of hypersensitivity to any of their components.

WARNINGS: As with other inhaled beta-adrenering agonists, Ventoline* Inhalation Aerosol and Ventolin Rotacaps* for Inhalation can produce paradoxical bronchospasm that can be life-threatening. If it occurs, the preparation should be discontinued immediately and alternative therapy instituted.

Fatalities have been reported in association with excessive use of inhaled sympathomimetic drugs. The exact cause of death is unknown, but cardiac arrest following the unexpected development of a severe acute asthmatic crisis and subsequent hypoxia is suspected.

Immediate hypersensitivity reactions may occur after administration of albuterol, as demonstrated by rare cases of urticana, angioedema, rash, bronchospasm, anaphylaxis, and oropharyngeal edema.

The contents of Ventolin Inhalation Aerosol are under pressure. Do not puncture. Do not use or store near heat or open flame. Exposure to temperatures above 1209F may cause bursting. Never throw container into fire or incinerator. Keep out of reach of children.

PRECALITIONS: General: Although no effect on the cardiovascular system is usually seen after the administration.

Keep out of reach of children.

PRECAUTIONS: General: Although no effect on the cardiovascular system is usually seen after the administration of inhaled albuterol at recommended doses, cardiovascular and central nervous system (CNS) effects seen with all sympathomimetic drugs can occur after use of inhaled albuterol and may require discontinuation of the drug. As with all sympathomimetic amines, albuterol should be used with caution in patients with convulsive disorders, especially coronary insufficiency, cardiac arrhythmias, and hypertension, in patients with convulsive disorders, hyperthyrodism, or diabetes mellitus, and in patients who are unusually responsive to sympathomimetic amines. Clinically significant changes in systolic and diastolic blood pressure have been seen in individual patients and could be expected to occur in some patients after use of any beta-adenergic bronchodilator.

Large doses of intravenous albuterol have been reported to aggravate pre-existing diabetes mellitus and ketoacidosis. Additionally, beta-agonists, including albuterol, given intravenously may cause a decrease in serum potassium, possibly through intracellular shunting. The decrease is usually transient, not requiring supplementation. The relevance of these observations to the use of Ventolin* Inhalation Aerosol is unknown.

Although there have been no reports concerning the use of Ventolin Inhalation Aerosol or Ventolin Rotacaps* for Inhalation during labor and delivery; it has been reported that high doses of albuterol administered intravenously inhibit uterine contractions. Although this effect is extremely unlikely as a consequence of Ventolin use, it should be kept in mind.

ulterine contractions. Although this effect is extremely univery as a consequence or extension use, it allows a consequence or extension as a consequence or extension and the action of Ventolin Rotacaps for Inhalation, other inhaled drugs should not be used more frequently than recomposed extensions. One consequence of the co

BRIEF SUMMARY

the maximum human inhalational dose (Ventolin Rotacaps* for Inhalation (albuterol sulfate, USP)). In another study this effect was blocked by the coadministration of progranolol. The relevance of these findings to humans is not known. An 18-month oral study in mice, at doses corresponding to 10.472 times the human inhalational dose, and a lifetime ostudy in hamsets, at doses corresponding to 1.042 times the human inhalational dose, showed no evidence of tumori-genicity. Studies with albuterol showed no evidence of mutagenesis. Oral reproduction studies in rats, at doses corresponding to 1.042 times the human inhalational dose, showed no evidence of impaired fertility. Pregnancy: *Teralogenic Effects: *Pregnancy Category C.** Albuterol has been shown to be teratogenic in mice when given in doses corresponding to 14 times the human aerosol dose and five times the human inhalational dose (Ventolin Rotacaps for inhalation). There are no adequate and well-controlled studies in pregnant women. Albuterol should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. A reproduction study in CDI mice given albuterol subcutaneously (1025, 0.25, and 2.5 mg/kg, Corresponding to 1.4 t, and 40 times the maximum human aerosol dose and to 0.5, 5, and 52 times the maximum human inhalational dose, respectively) showed cleft parate formation in 5 of 1114.65% letuses at 0.5 mg/kg and in 10 of 108 (9.3%) fetuses st 2.5 mg/kg, 10cen sponderenol (positive control). A reproduction study with or all albuterol in Stride Dutch rabbits revealed cranicschissis in 7 of 19 (37%) fetuses at 50 mg/kg, occresponding to 2.800 times the maximum human aerosol dose and to 1,042 times the maximum human inhalational dose of albuterol.

Labor and Delivery: Oral albuterol has been shown to delay preterm labor in some reports. There are presently no well-

Inhabational buse on anotherior.

Labor and Delivery: Oral albulerol has been shown to delay preterm labor in some reports. There are presently no well controlled studies that demonstrate that it will stop preterm labor or prevent labor at term. Therefore, cautious use of Ventionin Rotacaps for inhalation is required in pregnant patients when given for relief of bronchospasm so as to avoid

Ventolin Rotacaps for Inhalation is required in pregnant patients when given for relief of bronchospasms so as to avoid interference with uterine contractifity.

Nursing Mothers: It is not known whether albuterol is excreted in human milk. Because of the potential for tumorigenicity shown for albuterol in some animal studies, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use: Safety and effectiveness have not been established in children below 12 years of age for either product.

ADVERSE REACTIONS: The adverse reactions to albuterol are similar in nature to reactions to other sympathornimetic agents, although the incidence of certain cardiovascular effects is less with albuterol. Rare cases of urticaria, angioedema, rash, bronchospasm, and oropharyns, and oropharynsel edema have been reported after the use of albuterol. In addition to the reactions such as hypertension, angina, vomiting, vertigo, CNS stimulation, insomnia, unusual taste, and drying or irritation of the oropharynx.

Ventoline* Inhalation Aerosol (albuterol, USP): A 13-week double-blind study compared albuterol and isoproterenol acrosols in 147 astimatic patents. The results of this study showed that the incidence of cardiovascular effects was, palpitations, less than 10 per 100 with albuterol and isoproterenol, and increased blood pressure, less than 5 per 100 with isoproterenol; and increased blood pressure, less than 5 per 100 with isoproterenol; and increased blood pressure, less than 5 per 100 with both albuterol and isoproterenol, and increased blood pressure, less than 5 per 100 patients greening and the patients of the arbuting in less than 15 per 100 patients receiving sloproterenol. Wentoling Rotacaps* for Inhalation: The results of clinical trials in 172 patients (2%), lightheadedness, 4 of 172 patients (2%), lightheadedness, 4 of 172 patients (2%), lightheadedness, 4 of 172 patients (2%), insommia, 1 of 172 patients (4%), dr

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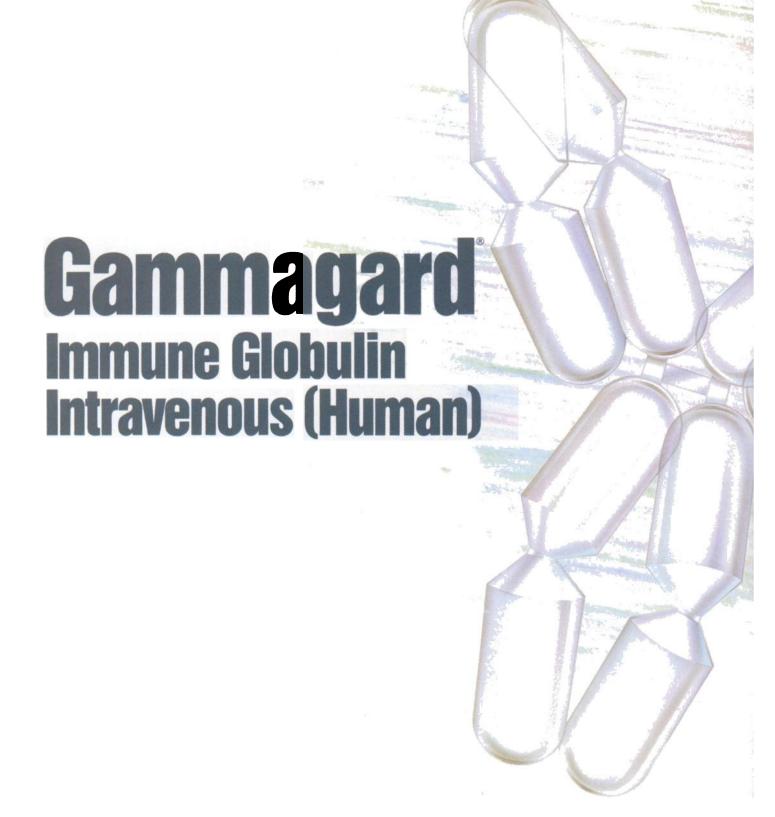
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- Sixteen patients (children and adults) with acute or chronic ITP were studied at New York Hospital-Cornell Medical Center. Childhood ITP may resolve spontaneously without treatment.
- Intravenous immunoglobulin for the prevention of infection in chronic lymphocytic leukemia. NEJM 1988; 319:902-907.
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Gammagard® Immune Globulin Intravenous (Human)

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Immune Globulin Intravenous (Human)

DESCRIPTION

Immune Globulin Intravenous (Human), Gammagard** is a sterile, dried, highly purified preparation of immunoglobulin G (IgG) which is derived from the cold ethanol fractionation process and is further purified using ultra-filtration and ion exchange adsorption. When reconstituted with the appropriate volume of diluent, this preparation contains approximately 50 mg of protein per mL, of which at least 90% is gamma globulin. The reconstituted product contains approximately 0.15 M sodium chloride and has a pH of 6.8 ± 0.4. Stabilizing agents are present in the following maximum amounts: 20 mg/mL glucose, 2 mg/mL polyethylene glycol (PEG), 0.3 M glycine, and 3 mg/mL Albumin (Human).

The manufacturing process for Immune Globulin Intravenous (Human), Gammagard, isolates IgG without additional chemical or enzymatic modification and the Fc portion is maintained intact. Immune Globulin Intravenous (Human), Gammagard contains all of the IgG antibody activities which are present in the donor population. On the average, the distribution of IgG subclasses present in this product is the same as is present in normal plasma.1 Immune Globulin Intravenous (Human), Gammagard contains only trace amounts of IgM and IgA.

Immune Globulin Intravenous (Human), Gammagard contains no preservative.

This product has been prepared from large pools of human plasma from which donors found to have elevated alanine aminotransferase (ALT) levels were excluded. Each unit of plasma used in the manufacture of this product has been found to be nonreactive for HBsAg by an FDA approved test.

CLINICAL PHARMACOLOGY

Immune Globulin Intravenous (Human), Gammagard contains a broad spectrum of IgG antibodies against bacterial and viral agents that are capable of opsonization and neutralization of microbes and toxins.

Peak levels of IgG are reached immediately after infusion of Immune Globulin Intravenous (Human), Gammagard. It has been shown that IgG is distributed relatively rapidly between plasma and extravascular fluid until approximately half of the total body pool is partitioned in the extravascular space. A rapid initial drop in serum levels is, therefore, to be expected.2

As a class, IgG survives longer in vivo than other serum proteins.23 Studies show that the half-life of Immune Globulin İntravenous (Human), Gammagard is approximately 24 days. These findings are consistent with reports of a 21 to 25 day half-life for IgG.234 The half-life of IgG can vary considerably from person to person, however. In particular, high concentrations of IgG and hypermetabolism associated with fever and infection have been seen to coincide with a shortened half-life of IaG. 2.3.4.5

INDICATIONS AND USAGE

Immunodeficiencies

Immune Globulin Intravenous (Human), Gammagard is indicated for the treatment of primary immunodeficient states, such as: congenital agammaglobulinemias, common variable immunodeficiency, Wiskott-Aldrich syndrome, and severe combined immunodeficiencies. 4.5 Immune Globulin Intravenous (Human), Gammagard is especially useful when high levels or rapid elevation of circulating IgG are desired or when intramuscular injections are contraindicated (e.g., small muscle mass).

B-cell Chronic Lymphocytic Leukemia

Immune Globulin Intravenous (Human) (IGIV), Gammagard is indicated for prevention of bacterial infections in patients with hypogammaglobulinemia and/or recurrent bacterial infections associated with B-cell Chronic Lymphocytic Leukemia (CLL). In a study of 81 patients, 41 of whom were treated with Immune Globulin Intravenous (Human), Gammagard, bacterial infections were significantly reduced in the treatment group. 6.7 In this study, the placebo group had approximately twice as many bacterial infections as the IGIV group. The median time to first bacterial infection for the IGIV group was greater than 365 days. By contrast, the time to first bacterial infection in the placebo group was 192 days. The number of viral and fungal infections, which were for the most part minor, was not statistically different between the two groups.

Idiopathic Thrombocytopenic Purpura (ITP)

When a rapid rise in platelet count is needed to control bleeding or to allow a patient with ITP to undergo surgery, the administration of Immune Globulin Intravenous (Human), Gammagard should be considered. The efficacy of Immune Globulin Intravenous (Human), Gammagard has been demonstrated in a clinical study involving sixteen patients (twelve adults and four children) diagnosed with acute or chronic Idiopathic Thrombocytopenic Purpura (ITP). Each of the sixteen patients (100%) demonstrated an acute, clinically significant rise in platelet count (platelet count greater than 40,000/mm²) following the administration of Immune Globulin Intravenous (Human), Gammagard.

Ten of the sixteen patients (62%) exhibited a clinically significant rise in platelet count after only one 1 g/kg infusion; four patients (25%) exhibited this result after only two 1 g/kg infusions; and two patients exhibited this result after more than two 1 g/kg infusions. The rise in platelet count is generally rapid, occurring within 5 days. The rise, however, is transient and should not be considered curative. Platelet rises most often lasted 2 to 3 weeks, with a range of 12 days to 6 months. It should be noted that childhood ITP may resolve spontaneously without treatment.

CONTRAINDICATIONS

None known.

WARNINGS

Immune Globulin Intravenous (Human), Gammagard should only be administered intravenously. Other routes of administration have not been evaluated.

Immune Globulin Intravenous (Human), Gammagard contains very low levels of IgA (not more than 10 µg/mL); nonetheless, it should be given with caution to patients with antibodies to IgA or selective IgA deficiencies. 5.8

PRECAUTIONS

Drug Interactions

Admixtures of Immune Globulin Intravenous (Human). Gammagard with other drugs have not been evaluated. It is recommended that Immune Globulin Intravenous (Human), Gammagard be administered separately from other drugs or medication which the patient may be receiving.

Pregnancy Category C

Animal reproduction studies have not been conducted with Immune Globulin Intravenous (Human), Gammagard. It is also not known whether Immune Globulin Intravenous (Human), Gammagard can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Immune Globulin Intravenous (Human), Gammagard should be given to a pregnant woman only if clearly needed.

ADVERSE REACTIONS

In general, adverse reactions to Immune Globulin Intravenous (Human) (IGIV), Gammagard in patients with congenital or acquired immunodeficiencies are similar in kind and frequency. The incidence of untoward reactions in these patients is low, although various minor reactions, such as headache, fatigue, chills, backache, leg cramps, lightheadedness, fever, urticaria, flushing, slight elevation of blood pressure, nausea and vomiting may occasionally occur. The incidence of these reactions directly attributable to the infusion of Immune Globulin Intravenous (Human), Gammagard during the clinical trials of primary immunodeficiencies was about 6%. In the study of patients with B-cell Chronic Lymphocytic Leukemia (CLL), the incidence was about 3%. Slowing or stopping the infusion usually allows the symptoms to disappear promptly.

During the clinical study of this product for treatment of Idi-

opathic Thrombocytopenic Purpura (ITP), the only side effect reported was headache which occurred in 12 of 16 patients. Oral antihistamines and analgesics alleviated the headache and were used as pretreatment for those patients requiring additional IGIV therapy. The remaining four patients did not report any side effects and did not require pretreatment.

Immediate anaphylactic and hypersensitivity reactions are a remote possibility. Epinephrine should be available for treatment of any acute anaphylactoid reaction. (See Warnings.)

DOSAGE AND ADMINISTRATION

Immunodeficiencies

For patients with primary immunodeficiencies, monthly doses of at least 100 mg/kg are recommended. Initially, patients may receive 200-400 mg/kg. As there are significant differences in the half-life of IgG among patients with primary immunodeficiencies, the frequency and amount of immunoglobulin therapy may vary from patient to patient. The proper amount can be determined by monitoring clinical response. The minimum serum concentration of IgG necessary for protection has not been established.

For patients with hypogammaglobulinemia and/or recurrent bacterial infections due to B-cell Chronic Lymphocytic Leukemia (CLL), a dose of 400 mg/kg every three to four weeks is recommended.

Idiopathic Thrombocytopenic Purpura (ITP)

For patients with acute or chronic Idiopathic Thrombocytopenic Purpura (ITP), a dose of 1 g/kg is recommended. The need for additional doses can be determined by clinical response and platelet count. Up to three doses may be given on alternate days if required.

Rate of Administration

It is recommended that initially a rate of 0.5 mL/kg/Hr be used. If infusion at this rate causes the patient no distress, the administration rate may be gradually increased but should not exceed 4 mL/kg/Hr.

A rate of administration which is too rapid may cause flushing and changes in pulse rate and blood pressure. Slowing or stopping the infusion usually allows the symptoms to disappear promptly.

Immune Globulin Intravenous (Human), Gammagard should be administered as soon after reconstitution as possible. Administration should begin not more than 2 hours after reconstitution.

The reconstituted material should be at room temperature during administration.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, nenever solution and container permit.

How Supplied

Immune Globulin Intravenous (Human), Gammagard is supplied in either 0.5 g, 2.5 g, 5.0 g, or 10.0 g single use bottles. Each bottle of Immune Globulin Intravenous (Human), Gammagard is furnished with a suitable volume of Sterile Water for Injection, USP, and a transfer device. An administration set, which contains an integral airway and a 15 micron filter, is included with the 2.5 g, 5.0 g, and 10.0 g sizes.

Storage

Immune Globulin Intravenous (Human), Gammagard is to be stored at a temperature not to exceed 25°C (77°F). Freezing should be avoided to prevent the diluent bottle from breaking

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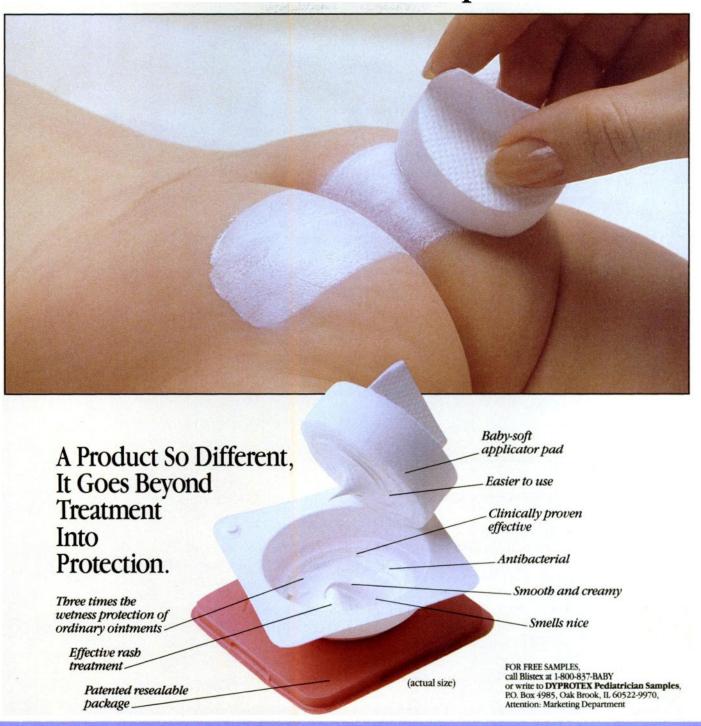
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*Manufactured under U.S. Patent No. 4,439,421. © 1986, 1987, 1988, 1989, 1990, Baxter Healthcare Corporation All rights reserved.

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Dyprotex® Has Changed Diaper Rash Care From the Bottom Up.



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DYPROTEX

MEDICATED DIAPER RASH PADS

Diaper rash care that's different from top to bottom.

ONLY FROM



The Skin Protection Specialists™

BLIND BY DESIGN

When a double-blind drug trial is set up, every effort should (and may) be made to ensure that active tablets resemble placebos, and to arrange a fair assessment of the results. But such ideals may not always be met. Patients—understandably—may try to subvert the trial to get the best available treatment; preparations thought to be identical may well differ; and side-effects (or beneficial effects of treatment) may often give the game away. Oxtoby et al emphasise that an author's description of a trial as "double-blind" may disguise a multitude of sins. They repeat the so-far little heeded call for such trials to include data on how many of the patients (and, perhaps more importantly, the "blind" clinicians) thought which was the active preparation, and which the placebo, before the code was broken. If either group guessed more accurately than might be expected by chance alone, is the trial really double-blind?

REFERENCES

 Oxtoby A, Jones A, Robinson M. Is your 'double-blind' design really double-blind? Br J Psychiatry. 1989;155:700-701.

Blind by design. Lancet. 1989;2:1539. Notes and News.

Noted by J.F.L., MD

HOW MANY PATIENTS NEEDED IN AN OBSERVATIONAL STUDY?

Observational prospective studies are a valuable method for examining the association of potential risk factors with subsequent occurrence of disease. A sample of subjects have potential risk factors recorded at an initial screening and are then followed to see which subjects manifest (or die from) the specified disease. . Although it is known that prospective studies need to be large, there is less widespread acceptance of the concept of focusing on a primary prespecified hypothesis as a basis for calculating study size, as is common practice in clinical trials.

Phillips AN, Pocock SJ. Sample size requirements for prospective studies with examples for coronary heart disease. *J Clin Epidemiol.* 1989;42:639–648.

Submitted by Student

A NEW CHOICE FOR PEDIATRIC CARE





Effectively Reduces Fever

- —In fever above 102.5°F, a 10 mg/kg dose of Children's Advil Suspension proved significantly better than a 10 mg/kg dose of acetaminophen.*1
- —In fever 102.5°F or below, a 5 mg/kg dose of Children's Advil® Suspension was comparable to a 10 mg/kg dose of acetaminophen.*1
- Effective Anti-inflammatory Action demonstrated in juvenile arthritis²
- Demonstrated Tolerability in both short-1,3,4 and long-term use^{2,5}

WHITEHALL LABORATORIES A HEALTH CARE DIVISION OF AMERICAN HOME PRODUCTS CORPORATION © 1990 Whitehall Laboratories, N.Y., N.Y.

Labeled fever-reducing dose of acetaminophen drops and liquid is approximately 10 to 15 mg/kg.





BRIEF SUMMARY OF PRESCRIBING INFORMATION
INDICATIONS: CHILDREN'S ADVIL'S SUSPENSION Is indicated for the reduction of fever in patients aged 12 months and older, and for the relief of mild-to-moderate pain in patients aged 12 years

aged 12 months and older, and for the relief of mild-to-moderate pain in patients aged 12 years and older.

CHILDREN'S ADVIL® SUSPENSION is also indicated for relief of the signs and symptoms of juvenile arthrifts, rheumatoid arthrifts, and asteoarthrifts.

CHILDREN'S ADVIL® SUSPENSION is indicated for the relief of primary dysmenorrhea.

CONTRAINDICATIONS: Patients hypersensitive to libuprofen or patients with all or part of the syndrome of nosal polyps, angioedema, and bronchospastic reactivity to aspirin or other nonsteroidal anti-inflammatory agents. Anaphylactoid reactions to libuprofen have occurred in such patients.

MARNINGS: Risk of 80 (Wecardions, Bleeding, and Perforation with NSAID Therapy; Physicians should remain alert for ulceration and bleeding in patients treated chronically with NSAIDS even in the absence of previous Gli tract symptoms. In patients observed in clinical trials of several months to two years' duration, symptomatic upper Gliubers, grass bleeding an perforation appear to occur in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year.

Except for a prior history of serious Gli events and other risk factors known to be associated with pepticulicer disease, no risk factors have been associated with increased risk. Elderly or debilitated patients seem to tolerate ulceration or bleeding less well than other individuals and most spontaneous reports of fatal Gli events are in this population.

PIECALITIONES General: Because serious Gli tract ulceration and bleeding can occur without warning symptoms, physicians should follow chronically freated patients for the signs and symptoms of ulceration and bleeding.

Blurned and/or diminished vision, scotomata, and/or changes in color vision have been reported. If a patient develops such complaints the drug should be discontinued and the patient should have an ophthalmologic examination.

Fiuld retention and edema have been reported with libuprofen: therefore, the drug should be used with cauliton

patient on CHILDRENS ADVIL® SUSPENSION, the possibility of its being related to ibuproten should be considered.

Renal Biflects: As with other nonsteroidal anti-inflammatory drugs, long-term administration of ibuproten to animals has resulted in renal popiliary necrosis and other abnormal renal pathology, in humans, there have been reports of acute intenstitial reportitis with hematuria, proteinuria, and accasionally nephrotic syndrome.

A second form of renal toxicity has been seen in patients with prerenal conditions leading to reduction in renal blood flow or blood volume. In these patients, administration of a nonsteroidal anti-inflammatory drug may cause a dose dependent reduction in prostaglandin formation and precipitate overtirenal decompensation. Patients at greatest risk of this reaction are those with impaired renal function heart failure. Never dystunction, and those toking disurieties and the elderly. Those patients at high risk who chronically take CHILDRENS ADVIL® SUSPENSION should have renal function monitored if they have signs or symptoms of acotemia. Discontinuation of ninstrickal anti-inflammatory drug therapy is hybically followed by recovery to the prefrectment state. Since ibuproten is eliminated primarily by the kidneys, patients with significantly impatied renal function should be closely monitored and a reduction in dosages should be anticipated to avoid drug accumulation.

function should be closely monitored and a reduction in dosage should be anticipated to avoid drug accumulation.

Information for Patients: Physicians may wish to discuss with their patients the potential risks and likely benefits of freatment with CHILDREN'S ADVIL® SUSPENSION.

Laboratory Tests: Meaningful (3 times the upper limit of normal) elevations of SGPT or SGOT (AST) occurred in controlled clinical ridis in less than 1% of patients. A patient with symptoms and/or sign suggesting liver dysfunction, or in whom an abnormal liver test has occurred, should be evaluated for evidence of the development of more severe hepatic reactions while on therapy with ibuproful ridis and the state of the development of systemic signs and symptoms consistent with liver disease develop, or if systemic manifestations occur, CHILDREN'S ADVIL® SUSPENSION should be discontinued.

disease develop, or if systemic manifestations occur, CHILDREN'S ADVIL® SUSPENSION should be discontinued.

**DRobetes: Each 5 mL of CHILDREN'S ADVIL® SUSPENSION contains 2.5 g of sucrose which should be taken into consideration when freating patients with impaired glucose tolerance. It also contains 3.50 m got southol per 5 mL. Although in clinical trials chilLDREN'S ADVIL® SUSPENSION was not associated with more diarrhea than control freatments, should a patient develop diarrhea, the physician may wish to review the patient's dietary intake of sorbitol from other sources. **Drug Interactions: Courractin-type Anticoogulants: Bleeding has been reported when ibuprofen and other nonsteroidal anti-inflammatory agents have been administered to patients on courractin-type anticoogulants; the physician should be cautious when administering CHILDREN'S ADVIL® SUSPENSION to patients on anticoogulants.

Methotrexate: In vitro studies indicate that ibuprofen could enhance the toxicity of methotrexate. Caution should be used if CHILDREN'S ADVIL® SUSPENSION is administered concomitantly with

methotexate. H2 Antagonists: In studies with human volunteers, coadministration of cimetidine or ranitidine with ibupraten had no substantive effect on ibupraten serum concentrations. Furosernide: Ibupraten can reduce the natriuretic effect of furosemide and thiazides in some patients. During concomitant therapy with CHILDREN'S ADVII. *9 SUSPENSION, the patient should be observed closely for signs of renal failure as well as to assure diuretic efficacy. Uthium: Ibupraten produced an elevation of plasma lithium levels (15%) and a reduction in renal inhum clearance (16%) in a study of 11 normal volunteers during the period of concomitant drug administration. Patients should be observed carefully for signs of lithium toxicity. Read package insert for lithium before its use.

insert for lithium before its use.

Pregnancy: Administration of ibuprofen is not recommended during pregnancy or for use by nursing mothers.

Infants: Safety and efficacy of CHILDRENS ADVIL® SUSPENSION in children below the age of 12 months have not been established.

ADVIRER ERACTIONS: The most frequent type of adverse reaction occurring with CHILDRENS ADVIL® SUSPENSION is gastrointestinal. In clinical trials among adults involving chronic administration of lbuprofen, the percentage of patients reporting one or more gastrointestinal complaints ranged from 4% to 16%.

newton, the percentage of patients reporting one or more gastrointestinal complaints ranged from 4% to 16%.

Incidence Greater Than 1% (but less than 3%), Probable Causal Relationship (see PRECAU-IIONS): Abdominal cramps or pain, abdominal distress, constipation, diarrhea, epigastric point, full ress of the Gil tract [blocding and flatulence], hearibum, indigestion, nause, and womiting, dizziness, headache, nervousness, pruritus, rash* (Including maculopapular type); tinnitus; decreased appetitis, edema, fluid retention (penerally responds promptly to drug discontinuation).

Practise incidence Unknown (But less than 1%), Probable Causal Relationship (see PRECAU-IIONS): Abnormal liver (incidence unknown).

Practise incidence Unknown (But less than 1%), Probable Causal Relationship (see PRECAU-IIONS): Abnormal liver (incidence unknown).

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Practise Incidence Unknown (But less than 1%), Probable Causal Relationship (see PRECAU-IIONS); and set of the probable of the

drug is acidic and excreted in the utiline, administration of sodium bicarbonate and induction of diuresis may be beneficial.

DOCAGE AND ADMINISTRATION: Fever: 5 mg/kg if baseline temperature is 102.5% or below or 10 mg/kg if baseline temperature is greater than 102.5%, every 6-8 hours (children); 400 mg every 4-6 hours (doutts).

Mild to moderate pain in adults: 400 mg every 4 to 6 hours.

Juvenille Arthittis: 30-40 mg/kg day in 3 or 4 divided doses.

RA and CA: 1200-3200 mg per day in 3 or 4 divided doses.

Dysmenorhea: 400 mg every 4 hours.

HOW SUPPLIED: 4 and 16 az bottles.

Caution: Federal law prohibits dispensing without prescription.

References:

1. Walson PD, Galletta G, Braden NJ, Alexander L, Ibuprofen, acetaminophen, and placebo treatment of febrile children. Clin Pharmacol Ther. 1989;46:9-17.

2. Independent Clinical Study: Juvenile Arthritis (I). Data on file, Medical Department, Whitehall

- 3. Independent Clinical Study: Reduction of Fever in Children, Multiple Dose, Data on file, Medical
- Independent in limited study, Reduction of Fever in Children, Single Dose, Data on file, Medical Department, Whitehall Laboratories.

 Independent Clinical Study, Reduction of Fever in Children, Single Dose, Data on file, Medical Department, Whitehall Laboratories.

 Independent Clinical Study, Juvenile Arthritis (II), Data on file, Medical Department, Whitehall

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COMPLETE SCREENING SYSTEM APPROVED BY THE AMERICAN CYSTIC FIBROSIS FOUNDATION: THERE IS ONLY

The Macroduct[®] sweat stimulation and collection system.



he Macroduct system is the simplest means of collecting a sweat specimen without the errors and artifacts associated with previous methods. This system, which allows visual quantitation of sweat production during collection, is approved as an integral part of the QPIT as defined by the Cystic Fibrosis Foundation.

- 1. The Cystic Fibrosis Foundation recommends that patients having sweat conductivity values about 50 mmol/L (equivalent NaCl) be referred to a CF Center).

 2. Data on file.

The Sweat-Chek sweat conductivity analyzer for sweat analysis.



arly in 1990 the Cystic Fibrosis Foundation approved the Wescor Sweat-Chek analyzer for cystic fibrosis screening.1 The Sweat-Chek analyzer makes accurate, reproducible conductivity measurements on sweat samples as small as 10 microliters.

Dr. Lewis E. Gibson reports that "if this machine is kept clean, it gives results that are every bit as reliable as an analysis for sodium or chloride." Dr. Gibson, co-originator of the venerable Gibson-Cooke method, recommends that conductivity values ranging up to 70 mmol/L can be considered normal.2

Contact Wescor for details. Wescor, Inc., 459 Main St., Logan, UT 84321 USA. Toll Free 800-453-2725. FAX 801-752-4127.



SUR beractant

SURVANTA beractant, surfactant TA

Treatment IND for Neonatal Respiratory Distress Syndrome

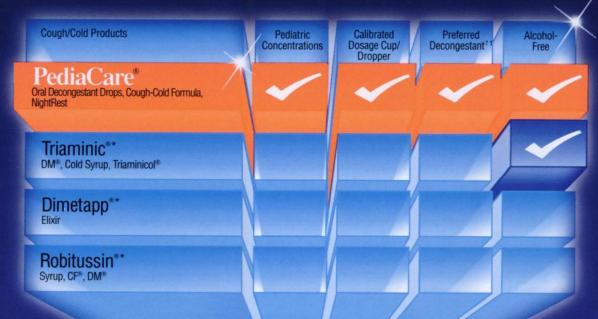
The Food and Drug Administration has approved a Treatment Investigational New Drug protocol for SURVANTA* for use in the prevention and treatment (rescue) of respiratory distress syndrome in premature infants.

Ross Laboratories will provide SURVANTA* at no charge to eligible Level II and Level III neonatal intensive care units that are directed by a board-certified or board-eligible neonatologist and that routinely manage infants with severe respiratory distress syndrome.

For more information, call **1-800-662-ROSS** (1-800-662-7677) 24 hours a day

Ross Laboratories – Helping Premature Babies

PediaCare is strong relief made just for kids.







Effective cough/cold relief just for children

McNEIL

McNeil Consumer Products Company Division of McNeil-PPC, Inc. Fort Washington, PA 19034 USA @McN, 1990 Reference; 1.Data on file, McNeil Consumer Products Company.

Triaminic, DM, and Triaminicol are registered trademarks of Sandoz Consumer. Dimetapp, Robitussin, CF, and DM are registered trademarks of AH Robins Company, Inc. 1Pseudoephedrine HCl

TOUGH ON FEVER

When her fever flares, fight it with Children's or Junior Strength TYLENOL® acetaminophen. Not even aspirin fights fever harder.¹ And TYLENOL has a better safety profile than aspirin.² In fact, there's no other pediatric antipyretic, OTC or Rx, safer for children.³ So get tough with fever. Recommend...

Children's and Junior Strength

TYLENOL

acetaminophen

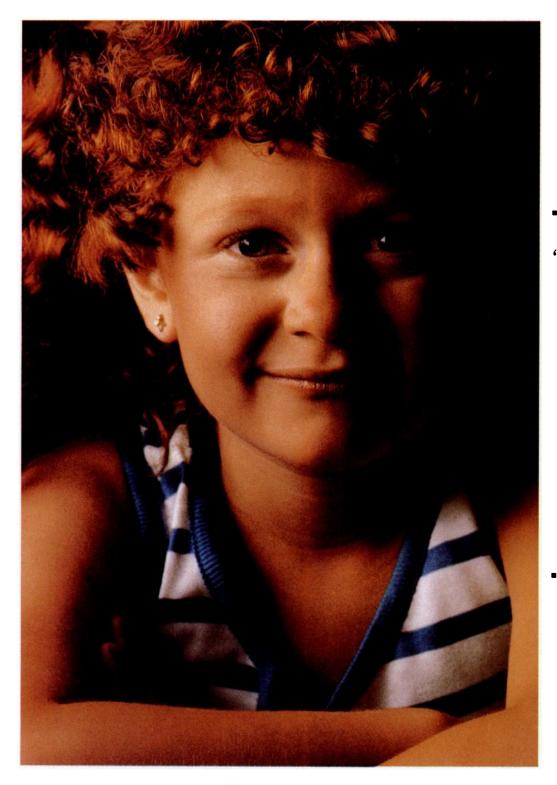
First choice for fever relief



References: 1. Tarlin L, et al. Am J Dis Child 1972:124:880-882. 2. Aspirin or paracetame? Lancet 1981;11:287-289. 3. Data on file, McNeil Consumer Products Company

MCNEIL

McNeil Consumer Products Compa Division of McNeil-PPC, Inc.



"Mom said my doctor gave her Americaine" for my sunburn.

It made it feel all better, fast."

.

For patient literature on Americaine

Sunburn pain can really hurt. But Americaine® topical anesthetic quickly relieves hot, burning sunburn pain. And hospital formula Americaine quickly stops the pain and itch of other minor hurts like scrapes, cuts, insect bites and household burns.

So when your patients need fast topical pain relief, recommend Americaine, the brand hospitals have used for years.





My kids had Orimune. Poliovirus Vaccine Live Oral Trivalent/Lederle

I didn't.

Jackie, Gina, and Krista DiLorenzo are all superior athletes. Jackie is a world champion table tennis player.
Her daughters excel in track and basketball. Unfortunately, Jackie must perform her sport in a wheelchair.
Because, unlike Gina and Krista, Jackie was born too soon for ORIMUNE. Jackie is thankful her daughters were protected.





Lederle Biologicals Protecting Families Through Immunization® lease see adjacent page for brief summary of Prescribing Information.



When I was a child there was no Orimune

Proven in Millions of US Patients

ORIMUNE was the first live, oral, trivalent polio vaccine. No other oral polio vaccine has done more to help eradicate wild poliovirus in the US. Over 500 million doses have been distributed to date.

Proven Safety* Record

Lederle takes every precaution during production and testing to ensure the safety of ORIMUNE. This dedication is evident by our 28-year safety record.

Uninterrupted Supply

Lederle has consistently met the nation's needs for oral polio vaccine for about 28 years. In fact, when all other US manufacturers discontinued the production of oral polio vaccine, Lederle has remained committed to this essential product and to the health of America's children.

Convenient Unit-Dose DISPETTE®

ORIMUNE is packaged in a single-dose DISPETTE, which assures dosage accuracy and avoids the risk of contamination.

*Paralytic disease following ingestion of live poliovirus vaccines has been reported on rare occasions in individuals receiving the vaccine or in their close contacts.



Poliovirus Vaccine Live Oral Trivalent ORIMUNE®

A Brief Summary
Please see package insert for full description, directions for use, and references.
INDICATIONS: For prevention of poliomyelitis caused by Poliovirus Types 1, 2, and 3.
CONTRAINDICATIONS: Under no circumstances should this vaccine be administered

Administration of the vaccine should be postponed or avoided in those experiencing any cute illness and in those with any advanced debilitated condition or persistent vomiting or

acute illness and in those with any advanced depintated condition of persistent reductions of pe

vaccine (IPV) is preferred for immunizing all persons in the above decircumstances.

WARNINGS: Under no circumstances should this vaccine be administered parenterally.

Administration of the vaccine should be postponed or avoided in those experiencing any acute illness and in those with any advanced debilitated condition or persistent vomiting or diarrhea.

Other viruses (including poliovirus and other enteroviruses) may interfere with the desired response to this vaccine, since their presence in the intestinal tract may interfere with the replication of the attenuated strains of poliovirus in the vaccine.

PRECAUTIONS: Preliminary data indicate that immune globulin (Human) (IG) does not appear to interfere with immunization with poliovirus vaccine live oral trivalent (OPV). However, until more data are available, it would seem prudent not to administer OPV shortly after IG, unless such a procedure is unavoidable, for example, with unexpected travel to or contact with epidemic areas or endemic areas. If OPV is given with or shortly after IG, the dose should probably be repeated after three months if immunization is still indicated.

The vaccine is not effective in modifying or preventing cases of existing and/or incubating poliomyelitis.

ever, until more data are available, it would seem prudent not to administer OPV shortly after (IG, unless such a procedure is unavoidable, for example, with unexpected travel to or contact with epidemic areas or endemic areas. If OPV is given with or shortly after IG, the dose should be provided to the provided of t

The ACIP has concluded that "Oral polio vaccine remains the vaccine of choice for primary immunization of children."

Rev. 7/89



Lederle Biologicals Protecting Families Through Immunization®

Lederle Laboratories.

A Division of American Cyanamid Company, Wayne, New Jersey 07470 © 1989 Lederle Laboratories

POLITICS AND SCIENCE

David Baltimore, who has just been named president of Rockefeller University, already knows what it's like to go through life with "Nobel laureate" appended to one's name. He is currently experiencing what it's like to have the phrase, "under investigation for scientific fraud," also attached to his name. The Nobel committee made the first addition; John Dingell's congressional committee created the second.

...a substantial number of Rockefeller's faculty...were disturbed at what they regarded as Dr Baltimore's confrontational attitude toward the Dingell committee, which held hearings on a dispute over the lab notebooks of a researcher who had co-authored a scientific paper with Dr Baltimore.

Insofar as Mr Dingell has a special interest in NIH and the institutions that receive its funding, the Rockefeller scientists were no doubt discomfited by Dr Baltimore's unflattering public opinion of this congressional patron, whose behavior reminded Dr Baltimore of the McCarthy era.

Scientists are mistaken who still think that the attacks on science in this country aren't their concern or that a David Baltimore could have somehow placated a John Dingell.

Fortunately, there are signs that increasing numbers of scientists understand the necessity of speaking out.

Scientists need to understand that while they tend to believe their work is primarily about establishing new knowledge or doing good, today it is also about power. In a media-linked world, scientists may earn wide praise and even Nobels for their work, but they also attract the attention of people who wish to gain control over the content, funding and goals of that work.

Baltimore at Rockefeller. The Wall Street Journal. October 23, 1989.

Lactaid's 2 lactases:

■ Caplets–For oral use ■ Drops–To add to milk

Lactaid enables your patients to make lactose digestible regardless of their level of tolerance or where or when they eat. Your patients will enjoy dairy foods once again and benefit from their nutritional value.

LACTAID CAPLETS

A stomach acid-stable oral lactase

As an acid-stable lactase, Lactaid Caplets work effectively in most gastric conditions from pH 2.5 to above 7.0. When taken at the beginning of a meal, Lactaid Caplets hydrolyze lactose into digest-

ible sugars, glucose and galactose, as the

food is eaten. Each
Lactaid Caplet
contains 3000
FCCLU (Food
Chemicals Codex
lactase units). This

amount will hydrolyze the lactose in 8 ounces of milk in 11 minutes at pH4.5, 37°C. Dosage ranges

from one-half
to three caplets
taken with the
lactose content
food, to treat
various intolerance levels.

LACTAID DROPS

A neutral pH-active lactase for treatment of milk

The neutral pH-active lactase in Lactaid Drops works most effectively around pH 7.0, that of fresh milk. Up to 99+% of the lactose in any milk can be hydrolyzed by

adding Lactaid Drops as directed, so any lactose intolerant patient can drink milk symptom-free.

Lactaid Brand Milk is pre-

treated at the dairy with Lactaid neutral

pH-active lactase to 70% hydrolysis of the lactose. It can be further hometreated if necessary with Lactaid Drops for 99+% lactose reduction. Lactaid Lowfat Milk is real milk, ready to drink, and is available in the dairy case of almost all supermarkets.



Lactaid works effectively orally and for treating milk.

The clinical effectiveness of both Caplets and Drops is well established.

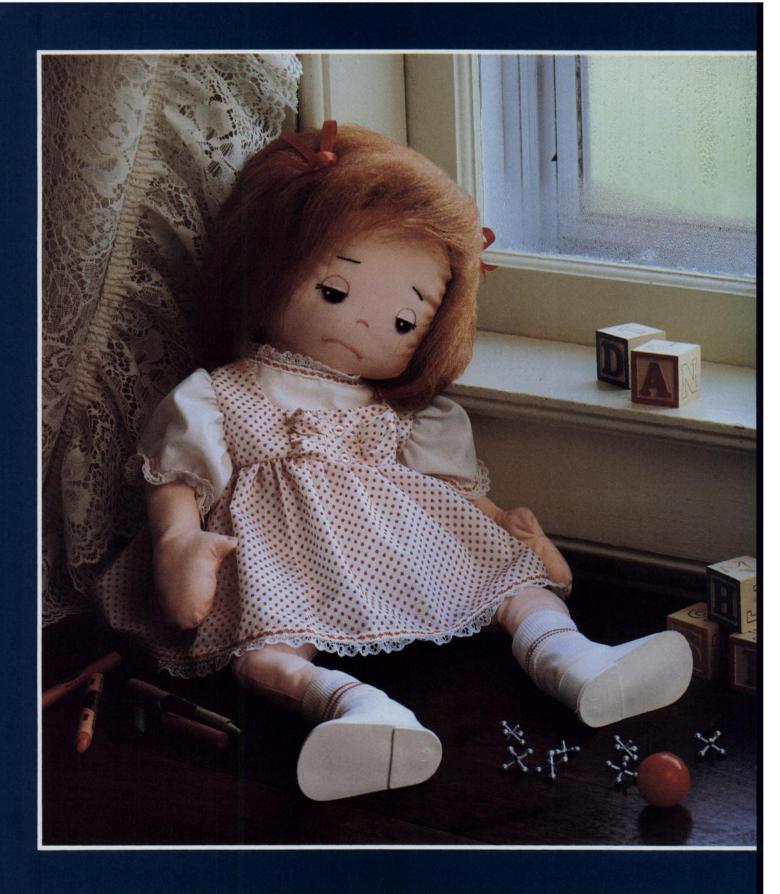
For our professional pamphlets on Lactaid Caplets and Lactaid Drops, patient literature, and free samples, please call our Lactaid Hotline.

1-800-257-8650 9am to 4pm Eastern Time Monday - Friday



THE ACKNOWLEDGED ANSWER TO LACTOSE INTOLERANCE









THE SILENT FNERGY CRISIS

The lethargic, hypotonic child. The fretful infant who doesn't eat. No specific evidence of disease...yet something clearly is wrong.

Fortunately, pediatricians are now identifying a cause of these and other similarly perplexing symptoms: an inability to metabolize fatty acids. One cause of this problem is primary systemic carnitine deficiency.

Why children require adequate carnitine

Carnitine is essential for fatty-acid oxidation and synthesis in energy production. Carnitine deficiency results in loss of energy and toxic accumulations of free fatty acids. When carnitine supply is inadequate, heart and skeletal muscle activity may be severely impaired.

Primary systemic carnitine deficiency may be associated with the following:

- hypoglycemia
- congestive heart failure
- hypotonia hepatomegaly
- neurologic disturbances progressive myasthenia
- hepatic coma
- lethargy
 - encephalopathy
- cardiomegaly
- · cardiac arrest
- impaired growth and development in infants

Because oral carnitine therapy has been proven effective in primary systemic carnitine deficiency in children and because it has little or no toxicity.1 CARNITOR® (levocarnitine) should be considered in all suspected cases of this syndrome.

So safe, there are no contraindications

CARNITOR® has no serious side effects apart from mild diarrhea, which is easily reversible with dosage adjustment or discontinuance. Because mild GI complaints have been reported, tolerance should be monitored closely during the first week and after any dosage increase.

Pediatric dosage: 50-100 mg/kg/day of CARNITOR® Tablets or CARNITOR® (100 mg/ml) Oral Solution.



THE ONLY PRESCRIPTION FORMULATION IN TABLETS AND ORAL SOLUTION

See brief summary of CARNITOR® (levocarnitine) prescribing information on the adjacent page.



Reference: 1. Lohninger A, Kaiser E, Legenstein E, et al: Carnitine, metabolism and function, in Kaiser E, Lohninger A (eds): Carnitine—Its Role in Lung and Heart Disorders. Basel, Switzerland, Karger, 1987, p 4.

CARNITOR* (LEVOCARNITINE)

Before prescribing, please consult complete product information, a summary of which follows:

INDICATIONS AND USAGE CARNITOR (levocarnitine) is indicated in the treatment of primary systemic carnitine deficiency.

CONTRAINDICATIONS None known.

WARNINGS None.

PRECAUTIONS

General CARNITOR Oral Solution is for oral/internal use only. Not for parenteral use. Gastrointestinal reactions may result from too rapid consumption. CARNITOR Oral Solution may be consumed alone, or dissolved in drinks or other liquid foods to reduce taste fatigue. It should be consumed slowly and doses should be spaced evenly throughout the day (every 3-4 hours, preferably during or following meals) to maximize tolerance.

Carcinogenesis, Mutagenesis, Impairment of Fertility Mutagenicity tests have been performed in Salmonella typhimurium, Saccharomyces cerevisiae, and Schizosaccharomyces pombe that do not indicate that CARNITOR is mutagenic. Long-term animal studies have not been conducted to evaluate the carcinogenicity of the compound.

Usage in pregnancy Pregnancy Category B Reproductive studies have been performed in rats and rabbits using parenteral administration at doses equivalent on a mg/kg basis to the suggested oral adult dosage and have revealed no harm to the letus due to CARNITOR. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Nursing mothers Levocarnitine is a normal component of human milk. Levocarnitine supplementation in nursing mothers has not been studied.

Pediatric use See Dosage and Administration.

ADVERSE REACTIONS Various mild gastrointestinal complaints have been reported during the long-term administration of oral L- or D, L-carnitine; these include transient nausea and vomiting, abdominal cramps, and diarrhea. Mild myasthenia has been described only in uremic patients receiving D, L-carnitine. Gastrointestinal adverse reactions with CARNITOR Oral Solution dissolved in liquids might be avoided by slow consumption or by greater dilution. Decreasing the dosage often diminishes or eliminates drug-related patient body odor or gastrointestinal symptoms when present. Tolerance should be closely monitored during first week of administration, and after any dosage increases.

OVERDOSAGE There have been no reports of toxicity from carntine overdosage. The oral LD₅₀ of levocarntine in mice is 19.2 g/kg. Carnitine may cause diarrhea. Overdosage should be treated with supportive care.

DOSAGE AND ADMINISTRATION

CARNITOR Tablets: Recommended adult dosage is 990 mg two or three times a day using the 330-mg tablets, depending on clinical response. Recommended dosage for infants and children is 50-100 mg/kg/day in divided doses, with a maximum of 3 g/day. Dosage should begin at 50 mg/kg/day. The exact dosage will depend on clinical response. Monitoring should include periodic blood chemistries, vital signs, plasma carnitine concentrations, and overall clinical condition.

overall clinical condition.

CARNITOR Oral Solution: Recommended adult dosage is 1-3 g/day for a 50-kg subject which is equivalent to 10-30 ml/day of CARNITOR Oral Solution. Higher doses should be administered only with caution and only where clinical and biochemical considerations make it seem likely that higher doses will be of benefit. Dosage should start at 17g/day (10 ml/day), and be increased slowly while assessing tolerance and therapeutic response. Monitoring should include periodic blood chemistries, vital signs, plasma carritine concentrations, and overall clinical condition. Recommended dosage for infants and children is 50-100 mg/kg/day which is equivalent to 0.5 ml/kg/day CARNITOR Oral Solution. Higher doses should be administered only with caution and only where clinical and biochemical considerations make it seem likely that higher doses will be of benefit. Dosage should start at 50 mg/kg/day, and be increased slowly to a maximum of 3 g/day (30 ml/day) while assessing tolerance and therapeutic response. Monitoring should include periodic blood chemistries, vital signs, plasma carritine concentrations, and overall clinical condition. See PRECAUTIONS/General above for additional information.

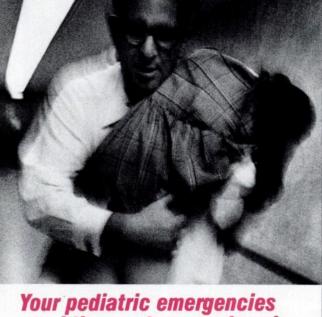
HOW SUPPLIED CARNITOR Tablets are supplied as

HOW SUPPLIED CARNITOR Tablets are supplied as 330-mg, individually foil-wrapped tablets in boxes of 90. Store at room temperature (25°C). CARNITOR Oral Solution is supplied in 118-ml (4 fl oz) multiple-unit plastic containers packaged 24 per case. Store at room temperature (25°C).

CAUTION Federal (USA) law prohibits dispensing without prescription.

CARNITOR Oral Solution manufactured for Sigma-Tau, Inc By: Barre-National, Inc., Baltimore, MD 21207-2642





Your pediatric emergencies need the most comprehensive, up-to-date care



Comprehensive overview of emergency techniques

Advanced Pediatric Life Support manual provides a core of knowledge for all health care providers who care for children in emergency settings. The 209-page, soft-cover manual is divided into five sections:

- Cardiorespiratory Support: cardiopulmonary arrest, shock, dysrhythmia, and congestive heart failure
- Traumatic Emergencies: burns, child abuse, and trauma to the chest, abdomen, and central nervous system
- Environmental Emergencies: poisonings, drowning, and hypothermia/hyperthermia
- ✓ Neonatal Emergencies: neonatal resuscitation
- ✓ Emergencies with Altered Levels of Consciousness: diabetic ketoacidosis, meningitis, Reye syndrome, and status epilepticus

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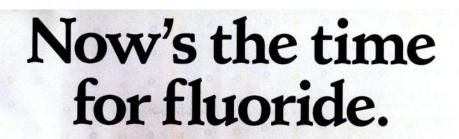
This reference guide was compiled by experts from the American Academy of Pediatrics/American College of Emergency Physicians, and the National Task Force on Advanced Pediatric Life Support. The manual also serves as the text for the official AAP/ACEP APLS Course. To find out about courses, call the National Course Coordinator at ACEP (214-550-0911).

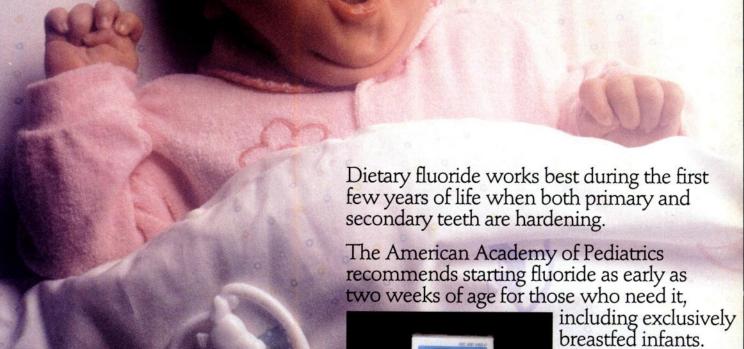
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supplementation

to help you guard appropriate pa-tients against caries risk and nutri-

INDICATIONS AND USAGE: Prophylaxis of vitamin defi-ciencies and dental caries in children and adults when fluoride of water supply does not exceed 0.7 ppm. 1.2.3 And, in the case of TRI-17ELOR® 0.25 mg Drops with Iron and POLY-VI-FLOR® Drops and Chewable Tablets with Iron, prophylaxis against Iron deficiencies. Note: VI-FLOR Drops do not contain folkic acid because the vitamin is not stable in liquid form.

PRECAUTIONS: Do not exceed recommended dose or give concurrently with other medications containing significant amounts of fluoride. Prolonged excessive fluoride intake may cause dental fluorosis.

All VI-FLOR® with Iron products: as with all products containing iron, parents should be warned against excessive dosage. The bottle should be kept out of reach of children

Keep all VI-FLOR with Iron products tightly closed and away from direct light.

VI-FLOR Drops should be dispensed in the original plastic container, since contact with glass leads to instability and precipitation.

ADVERSE REACTIONS: Allergic rash has rarely been re-

DOSAGE AND ADMINISTRATION: Supplemental Fluoride Dosage Schedule (mg/day)*

Age	Concentration of Fluoride in Drinking Water (ppm)		
	<0.3	0.3-0.7	>0.7
2-wk-2-yr**	0.25	0	0
2-3 yr	0.5	0.25	0
3-16 yr	1.0	0.5	0

statement. Pluoride supp rics 1986;77(5):758-761.

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PRODUCT	PORM	SIZE	mg/dose
POLY-VI-FLOR	Drops	50 ml. Bottle	0.25
0.25 mg			
POLY-VI-FLOR	Drops	50 mL Bottle	0.25
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POLY-VI-FLOR	Tablets	Bottle of 100	0.25
0.25 mg			
POLY-VI-FLOR	Tablets	Bottle of 100	0.25
0.25 mg with Iron			
POLY-VI-FLOR	Drops	50 mL Bottle	0.5
0.5 mg	-		
POLY-VI-FLOR	Drops	50 ml. Bottle	0.5
0.5 mg with Iron			
POLY-VI-FLOR	Tablets	Bottle of 100	0.5
0.5 mg			
POLY-VI-FLOR	Tablets	Bottle of 100	0.5
0.5 mg with Iron			
POLY-VI-FLOR	Tablets	Bottle of 100	1.0
1.0 mg			
POLY-VI-FLOR	Tablets	Bottle of 100	1.0
1.0 mg with Iron			
TRI-VI-FLOR	Drops	50 mL Bottle	0.25
0.25 mg			
TRI-VI-FLOR	Drops	50 mL Bottle	0.25
0.25 mg with Iron			
TRI-VI-FLOR	Drops	50 mL Bottle	0.5
0.5 mg			
TRI-VI-FLOR	Tablets	Bottle of 100	1.0
1.0 mg			

REFERENCES:

- EFERENCES:
 Hennon DK, Stookey GK, Muhler JC: The clinical anticariogenic effectiveness of supplementary fluoride-vitamin preparations Results at the end of four years. J Dentistry for Children 1967(Nov): 34-439-443.

 Hennon DK, Stookey GK, Muhler JC: The clinical anticariogenic effectiveness of supplementary fluoride-vitamin preparations Results at the end of five and a half years. Pharmacology and Therapeutics in Dentistry 1970(Oct): 1:1-6.

 Hennon DK, Stookey GK, Muhler JC: Prophylaxis of dental caries: Relative effectiveness of chewable fluoride preparations with and without added vitamins. J Padiatrics 1972(June): 80-1018-1021.

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CONTRAINDICATIONS: Rocephin is contraindicated in patients with known allergy to the cephalosporin class of antibiotics.

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antibacterial drug effective against *C. difficile*.

PRECAUTIONS: GENERAL: Although transient elevations of BUN and serum creatinine have been observed, at the recommended dosages, the nephrotoxic potential of Rocephin is similar to that of other cephalosporins. Ceftriaxore is excreted via both biliary and renal excretion (see Clinical Pharmacology). Therefore, patients with renal failure normally require no adjustment in dosage when usual doses of Rocephin are administered, but concentrations of drug in the serum should be monitored periodically, if evidence of accumulation exists, dosage should be decreased accordingly. Dosage adjustments should not be necessary in patients with hepatic dysfunction; however, in patients with both hepatic dysfunction and significant renal disease. Rocephin dosage should but of exceed 2 gm daily without close monitoring of serum concentrations. Alterations in prothrombin times have occurred rarely in patients treated with Rocephin. Patients with impaired vitamin K synthesis or low vitamin K stores (e.g., chronic hepatic disease and mainutrition) may require monitoring of prothrombin time during Rocephin Rocephin Rocephin and aniuntrition of the patients of the vitamin K administration (10 mg weekly) may be necessary if the prothrombin time is prolonged before or during therapy. Prolonged use of Rocephin may result in overgrowth of non-susceptible organisms. Careful observation of the patient is essential. If superinfection occurs during therapy, appropriate measures should be taken. Rocephin should be prescribed with caution in individuals with a history of gastrointestinal disease, especially collis. Rare cases reported of sonographic abnormalities seen in the gallbladder; patients may also have symptoms of gallbladder disease. These abnormalities acrously described as sludge, precipitations, echoes with shadows, may be misinterpreted as concretions. Chemical nature of sonographically-detected material not determined. Condition appears to be transient and reversible upon disc versible upon discontinuation of Rocephin and conservative management. Therefore, discontinue Rocephin if signs and symptoms suggestive of gallbladder disease and/or the sonographic findings described above develop. CARCINOGENESIS, MUTAGENESIS, IM-PAIRMENT OF FERTILITY: Carcinogenesis: Considering the maximum duration of treatment

and the class of the compound, carcinogenicity studies with ceftriaxone in animals have not been performed. The maximum duration of animal toxicity studies was six months. Mutagenesis: Genetic toxicology tests included the Ames test, a micronucleus test and a test for chromosomal aberrations in human hymphocytes cultured *in vitro* with ceftriaxone. Ceftriaxone showed no potential for mutagenic activity in these studies. Impairment of Fertility: Ceftriaxone produced no impairment of fertility when given intravenously to rats at daily dose up to 58 mg/kg/day, approximately 20 times the recommended clinical dose of 2 gm/day. PREGNAN-CY: Teratogenic Effects: Pregnancy Category B. Reproductive studies have been performed in mice and rats at doses up to 20 times the usual human dose and have no evidence of empryotoxicity, fetotoxicity or teratogenicity. In primates, no embryotoxicity or teratogenicity was bryotoxicity, fetotoxicity or teratogenicity. In primates, no embryotoxicity or teratogenicity was demonstrated at a dose approximately three times the human dose. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproductive studadequate and well-controlled studies in pregnant women. Because animal reproductive studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed. Nonteratogenic Effects: In rats, in the Segment I (fertility and general reproduction) and Segment II (perinatal and postnatal) studies with intravenously administered ceffriaxone, no adverse effects were noted on various reproductive parameters during gestation and lactation, including postnatal growth, functional behavior and reproductive ability of the offspring, at doses of 586 mg/kg/day or less. NURSING MOTHERS: Low concentrations of ceffriaxone are excreted in human milk. Caution should be exercised when Rocephin in administered to a nursing woman. PEDIATRIC USE: Safety and effectiveness of Rocephin in neonates, infants and children have been established for the dosages described in the Dosage and Administration section. In vitro studies have shown ceffriaxone, like some other cephalosporins. can displace bilirubin from serum albumin. Rocephin should not be administration instance. alosporins, can displace bilirubin from serum albumin. Rocephin should not be administered

to hyperbilirubinemic neonates, especially prematures.

ADVERSE REACTIONS: Rocephin is generally well tolerated. In clinical trials, the following adverse reactions, which were considered to be related to Rocephin therapy or of uncertain etiology, were observed: LOCAL REACTIONS—pain, induration or tenderness at the site of injection (1%). Less frequently reported (less than 1%) was phlebitis after I.V. administration. HYPERSENSITIVITY—rash (1.7%). Less frequently reported (less than 1%) were pruritus, fever or chills. HEMATOLOGIC—eosinophilia (6%), thrombocytosis (5.1%) and leukopenia (2.1%). Less frequently reported (less than 1%) were anemia, neutropenia, lymphopenia, thrombocytopenia and prolongation of the prothrombin time. GASTROINTESTINAL—diarrhea thrombocytopenia and prolongation of the prothrombin time. GASTROINTEST/NAL—diarrhea (2.7%). Less frequently reported (less than 1%) were nausea or vorniting, and dysgeusia. Onset of pseudomembranous colitis symptoms may occur during or after antibotic treatment (see WARNINGS). HEPATIC—elevations of SGOT (3.1%) or SGPT (3.3%). Less frequently reported (less than 1%) were elevations of alkaline phosphatase and bilirubin. RENAL—elevations of the BUN (1.2%). Less frequently reported (less than 1%) were elevations of creatinine and the presence of casts in the urine. CENTRAL NERVOUS SYSTEM—headache or dizziness were reported occasionally (less than 1%). GENITOURINARY—monitiasis or vaginitis were reported occasionally (less than 1%). Other rarely observed adverse reactions (less than 1%) of the rarely observed adverse reactions (less than 1%). Other rarely observed adverse reactions (less than 1%) of the rarely observ



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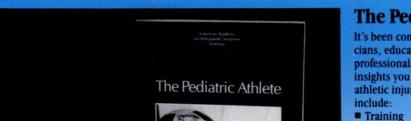
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...the FAA has resisted requiring safety seats for babies in part because it would compel parents to buy a ticket for the child...

...According to industry estimates, 5,000 to 10,000 children under age two fly on US airlines every day. Precise numbers aren't available because tickets aren't issued for babies...

Any rule requiring safety seats could easily take a year or so to go into effect.

McGinley L. Airlines now push baby safety seats. The Wall Street Journal. February 22, 1990.

Noted by J.F.L., MD

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In northern Manhattan, 34 percent of the children who die die of gunshot wounds.

Cooper A. Quoted by: Kempton M. Mad about guns. New York Review of Books. December 21, 1989.

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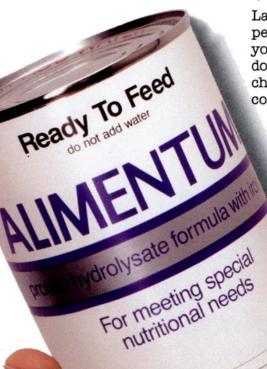
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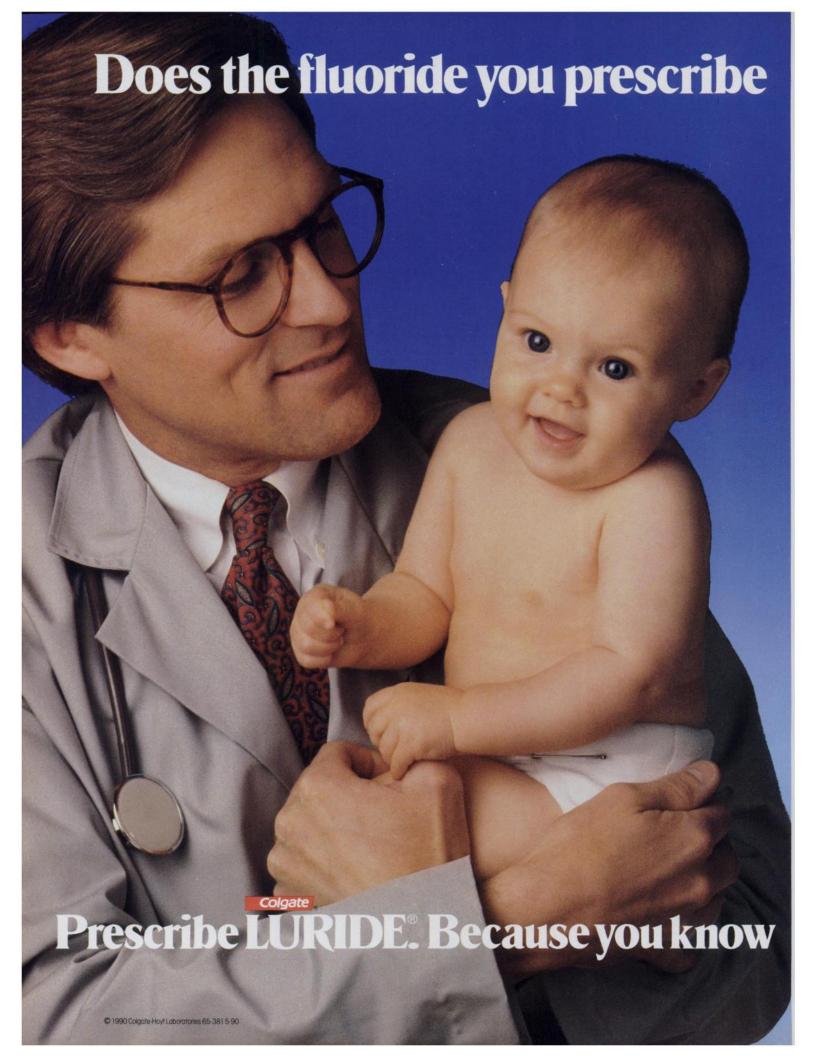
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Sampson HA: Safety of casein hydrolysate formula in children with cow's milk hypersensitivity. Pediatr Res 1989;25:123A.

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66...the normal breast-fed infant of the well nourished mother has not been shown conclusively to need any specific vitamin and mineral supplement. Similarly, there is no evidence that supplementation is necessary for the full-term, formula-fed infant and for the properly nourished normal child. 99

66...In the absence of an adequately fluoridated water supply, fluoride supplements should be given to all children.**99**

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1 American Academy of Pediatrics, Committee on Nutrition. Vitamin and mineral supplement needs in normal children in the United States Pediatrics 1980,66(6):1015-1021.2. American Academy of Pediatrics, Committee on Nutrition. Fluoride supplementation Pediatrics 1986,77(5):758-761.3. Trauther K et al. Influence of milk and food on fluoride bioavailability from NoF and No $_2$ FPO $_3$ in man. J Dent Res 1989,68(1):72-77.4. Keyes PH, Englander HR. Fluoride therapy in the treatment of dentomicrobial plaque diseases. J Am Soc Prev Dent 1975;5:36-48.5. Assenden R, Peebles TC. Effects of fluoride supplementation on human deciduous and permanent feeth. Arch Oral Biol 1974;19:321-326.

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1 O F TABLETS	1 0 mg per tablet (full-strength)	120 1000*	cherry & assorted (cherry, orange, lemon, lime) cherry & assorted
		5000*	cherry
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over 0.7 ppm	Fluoride dietary supplements contraindicated		

PRECAUTIONS: Recommended dosage should not be exceeded since prolonged overdosage may result in dental fluorosis.

REFERENCES

- 1 Aasenden R, Peebles TC Effects of fluoride supplementation on human deciduous and permanent teeth Arch Oral Biol 1974;19 321-326
- 2 American Dental Association Council on Dental Therapeutics Fluoride compounds In Accepted Dental Therapeutics Ed 40 Chicago ADA 1984.401
- 3 American Academy of Pediatrics, Committee on Nutrition Fluoride supplementation Pediatrics 1986;77(5) 758-761



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Brief Summary INDICATIONS AND USAGE

Treatment

Treatment
Claforan is indicated for the treatment of patients with serious infections caused by susceptible strains of the designated microgranisms in the diseases listed below.

(1) Lower respiratory tract infections, including pneumonia, caused by Streptococcus pneumoniae (10 merry Diplococcus pneumoniae). Streptococcus progeness* (Group A streptococcu) and other streptococci. et a. Streptococcus deacalis). Staphylococcus aureus (penicillinase and non-penicillinase producing). Eschenchia coli. Klebsiella species. Haemophilus influenzae (including ampicillin-resistant strains). Haemophilus paranfluenzae. Proteus mirabilis. Serratia marcescens.*
Enterobacter species, indole-positive Proteus and Pseudomonas species (including P aerignosa).

(2) Genitourinary infections. Urinary tract infections caused by Enterococcus species. Staphylococcus aureus* (penicillinase and non-penicillinase producing). Ethrobacter species. Enterobacter species. Eschenchia coli. Klebsiella species. Proteus mirabilis. Proteus vulgaris.*
Proteus inconstans Group B. Morganella morgani.* Providencia catetgen.* Serratia marcescens.

3) Gynecologic infections, including P aeruginosa). Also, uncomplicated gonorrhea of single or multiple sites caused by Staphylococcus epidermidis. Streptococcus species. Enterobacter species. * Klebsiella species.* Sechenchia coli. Proteus mirabilis. Bercordes species (including Stateroides species (including Bacteroides fragilis*). Clostridium species, anaerobic cocci (including Peptostreptococcus species and Peptococcus species (including Stateroides species (including Stateroides).

(3) Staphylococcus aureus, and Streptococcus species. Enterobacter species (including Stateroides).

(4) Bacteremia/Septicemia caused by Staphylococcus aureus (penicillinase and non-penicillinase producing). Staphylococcus species (including S pneumoniae).

(5) Skin and Kinstructure infections caused by Staphylococcus aureus (penicillinase and non-penicillinase producing). Staphylococcus species. Enterobacter species. Klebsiella

Bacteroides species, and anaerobic cocci (including Peptostreptococcus' species and Peptococcus species)

(6) Intra-abdominal infections including peritonitis caused by Streptococcus species.* Escherichia coli. Klebsiella species. Bacteroides species, anaerobic cocci (including Peptostreptococcus' species) and Peptococcus' species. Proteus mirabilis.* and Clostridum species.*

(7) Bone and/or joint infections caused by Staphylococcus aureus (penicillinase and non-penicillinase producing strains). Streptococcus species (including S. pyogenes*). Pseudomonas species (including P. aerugmosa*). and Proteus mirabilis.*

(8) Central nervous system infections, e.g., meningitis and ventriculitis, caused by Neissena meningitois. Haemophilus influenzae. Streptococcus pneumoniae. Klebsiella pneumoniae.* and Eschencha coli.*

Efficacy for this organism, in this organ system. has been studied in lewer than 10 infections. Although many strains of enterococci (e.g., S. Jaecails) and Pseudomonas species are resistant to celotaxime sodium in vitro. Clatoran has been used successfully in treating patients with infections caused by susceptible organisms.

Specimens for bacteriologic culture should be obtained prior to therapy in order to isolate and identify causative organisms and to determine their susceptibilities to Claforan. Therapy may be instituted before results of susceptibility studies are known, however, once these results become available, the antibiotic treatment should be adjusted accordingly.

In certain cases of confirmed or suspected gram-positive or gram-negative sepsis or in patients with other serious infections in which the causative organism has not been identified. Claforan may be used concomitantly with an aminoglycoside. The dosage recommended in the liabeling of both antibiotics may be given and depends on the severity of the infection and the patient's condition. Renal function should be carefully monitored, especially if higher dosages of the aminoglycosides are bound and pening to the patient's conditi

Prevention
The administration of Claforan preoperatively reduces the incidence of certain infections in patients undergoing surgical procedures (e.g., abdominal or vaginal hysterectomy, gastrointestian and genitourinary fract surgery) that may be classified as contaminated or potentially contaminated. In patients undergoing cesarean section, intraoperative (after clamping the umbilical cord) and postoperative use of Claforan may also reduce the incidence of certain postoperative infections. (See DOSAGE AND ADMINISTRATION section.)

Effective use for elective surgery depends on the time of administration. To achieve effective tissue levels. Claforan should be given 1/2 to 1/2 hours before surgery. (See DOSAGE AND ADMINISTRATION section.)

For patients undergoing gastrointestinal surgery, preoperative bowel preparation by mechanical cleansing as well as with a non-absorbable antibiotic (e.g., neomycin) is recommended. If there are signs of infection, specimens for culture should be obtained for identification of the causative organism so that appropriate therapy may be instituted.

CAUSAIVE Organism so that appropriate therapy may be instituted.

CONTRAINDICATIONS

Claforan is contraindicated in patients who have shown hypersensitivity to cefotaxime sodium or the cephalosporin group of antibiotics.

WARNINGS

BEFORE THERAPY WITH CLAFORAN IS INSTITUTED. CAREFUL INQUIRY SHOULD BE MADE TO DETERMINE WHETHER THE PATIENT HAS HAD PREVIOUS HYPERSENSITIVITY REACTIONS TO CEFOTAXIME SODIUM. CEPHALOSPORINS, PENICILLINS. OR OTHER DRUGS. THIS PRODUCT SHOULD BE GIVEN WITH CAUTION TO PATIENTS WITH TYPE I HYPERSENSITIVITY REACTIONS TO PENICILLIN. ANTIBIOTICS SHOULD BE ADMINISTERED WITH CAUTION TO ANY PATIENT WHO HAS DEMONSTRATED SOME FORM OF ALLERGY. PARTICULARLY TO DRUGS. IF AN ALLERGIC REACTION TO CLAFORAN OCCURS. DISCONTINUE TREATMENT WITH THE DRUG SERIOUS HYPERSENSITIVITY REACTIONS MAY REQUIRE EPINEPHRINE AND OTHER EMERGENCY MEASURES.

PSEUDOMEMBRANDED. IS IN THE STANDAY OF THE STAND

Mild cases of colitis may respond to drug discontinuance alone.

Moderate to severe cases should be managed with fluid, electrolyte, and protein supplementation

when the colitis is not relieved by drug discontinuance or when it is severe, oral vancomycin is the treatment of choice for antibiotic associated pseudomembranous colitis produced by C. difficile. Other causes of colitis should also be considered.

Other causes of colitis should also be considered.
PRECAUTIONS
Claforan* (cefotaxime sodium) should be prescribed with caution in individuals with a history of gastrointestinal disease, particularly colitis.
Claforan has not been shown to be nephrotoxic. however, because high and prolonged serum antibiotic concentrations can occur from usual doses in patients with transient or persistent reduction of urinary output because of renal insufficiency, the total daily dosage should be reduced when Clafora is administered to such patients. Continued dosage should be determined by degree of renal impairment, severity of infection, and susceptibility of the causative organism.

Although there is no clinical evidence supporting the necessity of changing the dosage of cefo-taxime sodium in patients with even profound renal dysfunction, it is suggested that, until further data are obtained, the dose of celotaxime sodium be halved in patients with estimated creatinine clearances of less than 20 mL/min/1/3 m². When only serum creatinine is available, the following formula (based on sex, weight, and age of the patient) may be used to convert this value into creatinine clearance. The serum creatinine should represent a steady state of renal function.

Weight (kg)x(140 - age) 72 x serum creatinine 0.85 x above value Females

As with other antibiotics, prolonged use of Claforan may result in overgrowth of nonsusceptible organisms. Repeated evaluation of the patient's condition is essential. If superinfection occurs during therapy, appropriate measures should be taken. As with other beta-lactam antibiotics, granulocytopenia and, more rarely, agranulocytosis may develop during treatment with Claforan*, particularly if given over long periods. For courses of treatment lasting longer than 10 days, blood counts should therefore be monitored. Drug Interactions: Increased nephrotoxicity has been reported following concomitant administration of cephalosporins and aminoglycoside antibiotics.

Carcinogenesis, Mutagenesis: Long-term studies in animals have not been performed to evaluate carcinogenic potential. Mutagenic tests included a micronucleus and an Ames test. Both tests were negative for mutagenic effects.

negative for mutagenic effects. Pregnancy (Category B): Reproduction studies have been performed in mice and rats at doses up to 30 times the usual human dose and have revealed no evidence of impaired fertility or harm to the fetus because of cefotaxime sodium. However, there are no well-controlled studies in pregnant women. Because animal reproductive studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Nonteralogenic Effects: Use of the drug in women of childbearing potential requires that the anticipated benefit be weighed against the possible risks.

In perinatal and postnatal studies with rats, the pups in the group given 1200 mg/kg of Claforan were significantly lighter in weight at birth and remained smaller than pups in the control group during the 21 days of nursing.

Nursing Mothers: Claforan is excreted in human milk in low concentrations. Caution should be exercised when Claforan is administered to a nursing woman.

exercised when Claforan is administered to a nursing woman

ADVERSE REACTIONS

ADVERSE REACTIONS
Claforan is generally well tolerated. The most common adverse reactions have been local reactions following IM or IV injection. Other adverse reactions have been encountered infrequently. The most frequent adverse reactions (greater than 1%) are:
Local (4.3%) – Injection site inflammation with IV administration. Pain, induration, and tenderness after IM injection.
Hypersensitivity (2.4%) – Rash, pruritus, fever, and eosinophilia.
Gastrointestinal (1.4%) – Colitis, diarrhea, nausea, and vomiting.
Symptoms of pseudomembranous colitis can appear during or after antibiotic treatment.
Nausea and vomiting have been reported rarely.
Less frequent adverse reactions (less than 1%) are:
Hematologic System – Neutropenia, transient leukopenia, eosinophilia, thrombocytopenia and agranulocytosis have been reported. Some individuals have developed positive direct Coombs Tests during treatment with Claforan* and other cephalosporin antibiotics. Rare cases of hemolytic anemia have been reported.
Genitourinary System – Moniliasis, vaginitis.

ive been reported. **Genitourinary System –** Moniliasis, vaginitis. **Central Nervous System –** Headache. **Liver –** Transient elevations in SGOT, SGPT, serum LDH, and serum alkaline phosphatase levels

have been reported.

Kidney — As with some other cephalosporins, transient elevations of BUN have been occasionally observed with Claforan.

DOSAGE AND ADMINISTRATION

Adults
Dosage and route of administration should be determined by susceptibility of the causative organisms, severity of the infection, and the condition of the patient (see table for dosage guidelines).
Claforan may be administered IM or IV after reconstitution. Premixed Claforan Injection is intended for IV administration after thawing. The maximum daily dosage should not exceed 12 grams.

GUIDELINES FOR DOSAGE OF CLAFORAN

Type of Infection	Daily Dose (grams)	Frequency and Route
Gonorrhea	1	1 gram IM (single dose)
Uncomplicated infections	2	1 gram every 12 hours IM or IV
Moderate to severe infections Infections commonly needing antibiotics in	3-6	1-2 grams every 8 hours IM or IV
higher dosage (e.g., septicemia)	6-8	2 grams every 6-8 hours IV
Life-threatening infections	un to 12	2 grame every 4 hours IV

To prevent postoperative infection in contaminated or potentially contaminated surgery. The recommended dose is a single 1 gram IM or IV administered 30 to 90 minutes prior to start of surgery. Cesarean Section Patients

The first dose of 1 gram is administered intravenously as soon as the umbilical cord is clamped. The second and third doses should be given as 1 gram intravenously or intramuscularly at 6 and 12 hours

after the first dose.

Neonates, Infants, and Children
The following dosage schedule is recommended:
Neonates (birth to 1 month):

Neonates (birth to 1 month):

1 - 1 week of age
1-4 weeks of age
1-4 weeks of age
50 mg/kg IV q12h
50 mg/kg IV q8h
It is not necessary to differentiate between premature and normal-gestational-age infants.
Infants and Children (1 month to 12 years): For body weights less than 50 kg, the recommended daily dose is 50 to 180 mg/kg IM or IV of body weight divided into four to six equal doses. The higher dosages should be used for more severe or serious infections, including meningitis. For body weights 50 kg or more, the usual adult dosage should be used: the maximum daily dosage should not exceed 12 orams

12 grams.

Impaired Renal Function – see PRECAUTIONS section.

NOTE: As with antibiotic therapy in general, administration of Claforan should be continued for a minimum of 48 to 72 hours after the patient defervesces or after evidence of bacterial eradication has been obtained, a minimum of 10 days of treatment is recommended for infections caused by Group A beta-hemolytic streptococci in order to guard against the risk of rheumatic fever or glomerulo-nephritis. frequent bacteriologic and clinical appraisal is necessary during therapy of chronic urinary tract infection and may be required for several months after therapy has been completed; persistent infections may require treatment of several weeks and doses smaller than those indicated above should not be used.

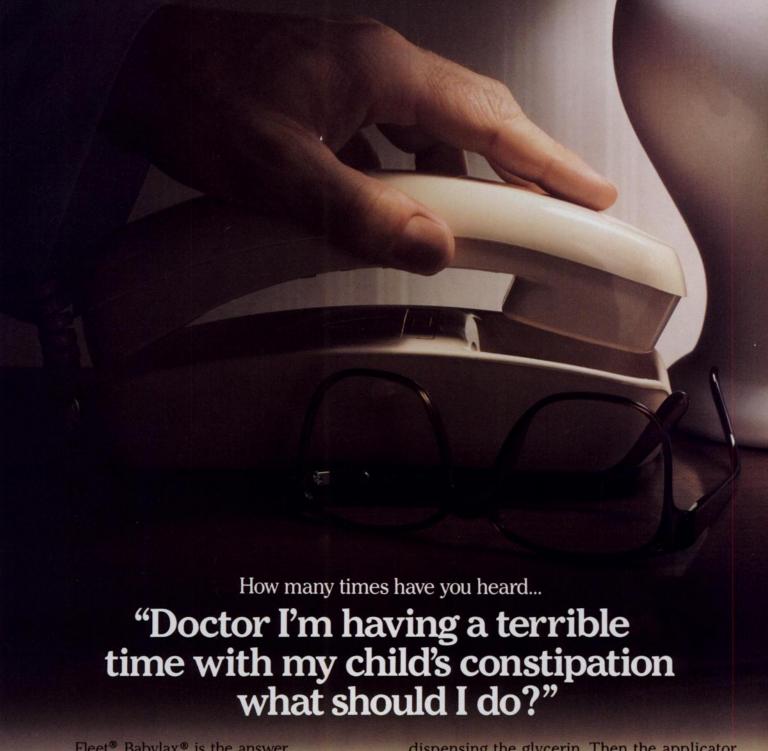
*US Patent 4.152.432 CLAFORAN REG TM ROUSSEL-UCLAF

71789T Revised 3/89

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cally correct solution for occasional childhood constipation that's easier on both child and mother.

Babylax, from the makers of Fleet enema, is a unique, ready-touse disposable applicator that contains 4 ml of liquid glycerin. Babylax takes just seconds to use. The parent simply removes the protective shield, inserts the pre-lubricated applicator and squeezes the bulb

dispensing the glycerin. Then the applicator is removed and discarded. A normal bowel

movement should occur within

30 minutes.

Babylax eliminates all the problems of suppositories: messy insertion, lengthy melting time and discomfort for the child.

Babylax is available in most drug and food stores, in handy boxes of six disposable units.

Babylax. Another healthy innovation from C. B. Fleet Company.



AIDS STRIKES ROMANIAN CHILDREN

The Baltimore Sun

BUCHAREST, Romania—A full-blown AIDS crisis has hit the sick and abandoned children of Romania...

Tests by Romanian and French virologists revealed that of 1025 children under age 13 tested in hospitals and children's homes since the December revolution, 367 were HIV positive.

They are victims of direct transfusions of unchecked blood and repeated use of unsterilized hypodermic needles...

Of 460 children tested in hospitals here, 283 were HIV positive and 60 per cent of them were developing AIDS, Patrascu said.

AIDS strikes Romanian children. The Burlington Free Press. February 6, 1990.

Noted by J.F.L., MD

AIDS CASES IN US ROSE 9% IN 1989

ATLANTA, Feb 10 (AP)—The number of new AIDS cases in the United States rose 9 percent last year...the number of new cases grew faster among heterosexuals, newborns, women and Southerners, health officials say.

The Atlanta-based Federal health agency reported a total of 35,238 AIDS cases in 1989, compared with 32,196 in 1988...

Last year 547 cases of AIDS transmission from mothers to newborns were reported, up 17 percent from 1988. And while women accounted for only 3,931 of the 35,238 cases last year, that was an increase of 11 percent over the total for 1988. . .

AIDS cases in U.S. rose 9% in 1989. The New York Times. February 11, 1990.

Noted by J.F.L., MD

What makes a child seat safe is how an adult uses it.



One-third of all child seats aren't used correctly. It's one reason traffic accidents are the leading cause of death in children. To change that, double-check your child's seat. Read all instructions and follow them carefully.

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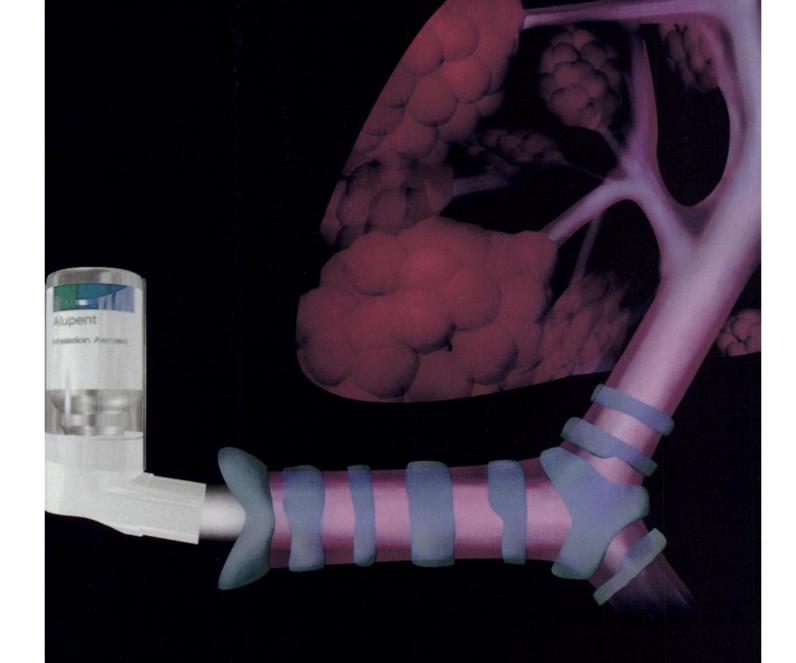
As adults, it's our job to make sure child seats are used right all the time.

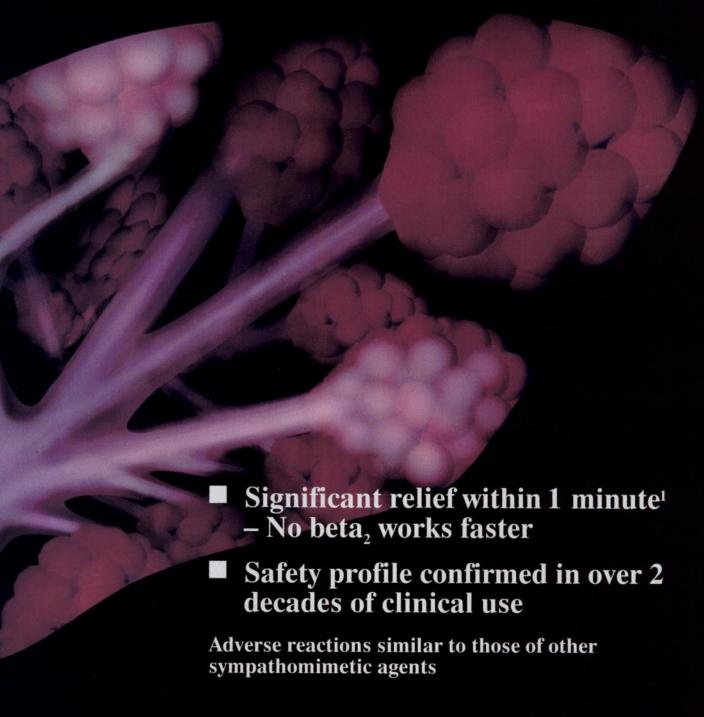


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<u>Fast Action, Fast Relief in Asthma</u>

Alupent (metaproterenol sulfate)



Inhalation Aerosol 10 mL: 15 mg/mL (each metered dose delivers 0.65 mg



Inhalation Solution
5% in 10 mL and 30
mL bottles: unit dose

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Please see following page for brief summary of Prescribing Information.



Boehringer Ingelheir Pharmaceuticals, Inc Ridgefield, CT, 0687





Inhalation Aerosol 10 ml.*

*10 mL; 15 mg per mL (each metered dose delivers 0.65 mg metaproterenol sulfate)

Brief Summary of Prescribing Information

CONTRAINDICATIONS Use in patients with cardiac arrhythmias associated with tachycardia is contraindicated.

Although rare, immediate hypersensitivity reactions can occur. Therefore, Allupents (metaproterenc) suifate USP) Inhalation Aerosol is contraindicated in patients with a history of hypersensitivity to any of its components.

WARNINGS Fatalities have been reported following excessive use of Alupent® (metaproterenol sulfate USP) as with other sympathomimetic inhalation preparations, and the exact cause is unknown. Cardiac arrest was noted in several cases.

Alupent, like other beta adrenergic agonists, can produce a significant cardiovascular effect in some patients, as measured by pulse rate, blood pressure, symptoms, and/or ECG changes. As with other beta adrenergic aerosols. Alupent can produce paradoxical bronchospasm (which can be life-threatening). If it occurs, the preparation should be discontinued immediately and alternative therapy instituted.

Alupent® (metaproterenol sulfate USP) should not be used more often than prescribed. Patients should be advised to contact their physician in the event that they do not respond to their usual dose of a sympathomimetic amine aerosol.

PRECAUTIONS General Extreme care must be exercised with respect to the administration of additional sympathomimetic agents.

Since metaproterenol is a sympatronimetic agents.

Since metaproterenol is a sympatronimetic amine, it should be used with caution in patients with cardiovascular disorders, including ischemic heart disease, hypertension or cardiac arrhythmias, in patients with hyperthyroidism or diabetes mellitus, and in patients who are unusually responsive to sympathomimetic amines or who have convulsive disorders. Significant changes in systolic and diastolic blood pressure could be expected to occur in some patients after use of any beta adrenergic bronchodilator.

Information for Patients Appropriate care should be exercised when considering the administration of additional sympathomimetic agents. A sufficient interval of time should elapse prior to administration of another sympathomimetic agent.

Drug Interactions Other beta adrenergic aerosol bronchodilators should not be used concomitantly with Alupent because they may have additive effects. Beta adrenergic agonists should be administered with caution to patients being treated with monoamine oxidase inhibitors or tricyclic antidepressants, since the action of beta adrenergic agonists on the vascular system may be potentiated.

Carcinogenesis/Mutagenesis/Impairment of Fertility In an 18-month study in mice, Alupent produced an increase in benign ovarian tumors in females at doses corresponding to 320 and 640 times the maximum recommended dose (based on a 50 kg individual). In a 2-year study in rats, a nonsignificant incidence of benign leiomyomata of the mesovarium was noted at 640 times the maximum recommended dose. The relevance of these findings to man is not known. Mutagenic studies with Alupent have not been conducted. Reproduction studies in rats revealed no evidence of impaired fertility.

Pregnancy/Teratogenic Effects PREGNANCY CATEGORY C. Alupent has been shown to be teratogenic and embryotoxic in rabbits when given in doses corresponding to 640 times the maximum recommended dose. These effects included skeletal abnormalities, hydrocephalus and skull bone separation. Results of other studies in rabbits, rats or mice have not revealed any teratogenic, embryocidal or fetotoxic effects. There are no adequate and well-controlled studies in pregnant women. Alupent should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers It is not known whether Alupent is excreted in human milk; therefore, Alupent should be used during nursing only if the potential benefit justifies the possible risk to the newborn.

Pediatric Use Safety and effectiveness in children below the age of 12 have not been established. Studies are currently under way in this age group.

ADVERSE REACTIONS Adverse reactions are similar to those noted with other

The most frequent adverse reaction to Alupent® (metaproterenol sulfate USP) administered by metered-dose inhaler among 251 patients in 90-day controlled clinical trials was nervousness. This was reported in 6.8% of patients. Less frequent adverse experiences, occurring in 1% to 4% of patients were headache, dizziness, palpitations, gastrointestinal distress, tremor, throat irritation, nausea, vomiting, cough and asthma exacerbation. Tachycardia occurred in less than 1% of patients.

HOW SUPPLIED Each Alupent® (metaproterenol sulfate USP) Inhalation Aerosol contains 150 mg of metaproterenol sulfate as a micronized powder in inert propellants. Each metered dose delivers through the mouthpiece 0.65 mg metaproterenol sulfate (each mL contains 15 mg). Alupent Inhalation Aerosol with Mouthpiece (NDC 0597-0070-17), net contents 14 g (10 mL), equipped with blue protective cap. Alupent Inhalation Aerosol Refill (NDC 0597-0070-18), net contents 14 g (10 mL).

Store between 59°F (15°C) and 77°F (25°C). Avoid excessive humidity.

Consult package insert before prescribing.

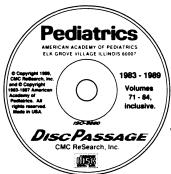
Reference:

1. Reilly EB, Rodgers JM, Bickerman HA. A comparison of the onset of bronchodilator activity of metaproterenol and isoproterenol aerosols. Curr Ther Res. 1974;16(8):759-764.

AL-4431



Boehringer Ingelheim Pharmaceuticals, Inc. Ridgefield, CT 06877



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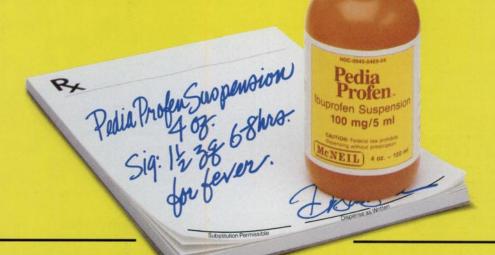
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A new alternative for fever

Pedia Pedia Profen

Ibuprofen Suspension 100 mg/5 ml



Antipyretic efficacy

In children with temperatures greater than 102.5° F, ibuprofen 10 mg/kg is more effective than ibuprofen 5 mg/kg or acetaminophen 10 mg/kg! And the only ibuprofen suspension indicated for use in children as young as 6 months is PediaProfen.

Up to 8-hour relief

Ibuprofen 10 mg/kg provides longer duration of antipyresis than acetaminophen^{1,2}—up to 8 hours of relief. That means fewer interruptions in the family's work, school, or sleep schedules. And PediaProfen is pleasant-tasting, so it's easy to take.

COMPREHENSIVE FEVER MANAGEMENT FROM Meneil

References: 1. Walson PD, et al. Ibuprofen, acetaminophen and placebo treatment of febrile children. Clin Pharmacol Ther. 1989;46:9-17. 2. Data on file, McNeil Consumer Products Company.

McNEIL CONSUMER PRODUCTS CO. Division of McNeil-PPC, Inc. Fort Washington, PA 19034 USA

A new alternative for fever PediaProfen...

Ibuprofen Suspension 100 mg/5 ml

The following is a brief summary only. Before prescribing, see complete prescribing information in

INDICATIONS AND USAGE: PediaProfen is indicated for the reduction of fever in patients aged 6 months and older, and for the relief of mild-to-moderate pain in patients aged 12 years and older. CLINICAL PHARMACOLOGY: Controlled clinical trials comparing doses of 5 and 10 mg/kg ibuprofen

and 10-15 mg/kg of acetaminophen have been conducted in children 6 months to 12 years of age with fever primarily due to viral illnesses. In these studies there were no differences between treatments in fever primarily due to viral illnesses. In these studies there were no differences between treatments in tever reduction for the first hour and maximum fever reduction occurred between 2 and 4 hours. Response after 1 hour was dependent on both the level of temperature elevation as well as the treatment. In children with baseline temperatures at or below 102.5°F, both ibuprofen doses and acetaminophen were equally effective in their maximum effect. In those children with temperatures above 102.5°F, the ibuprofen 10 mg/kg dose was more effective. By 6 hours children treated with ibuprofen 5 mg/kg tended to have recurrence of lever, whereas children treated with 10 mg/kg acetaminophen, fever reduction resembled that seen in children treated with 5 mg/kg of ibuprofen, with the exception that temperature elevative bedded to return 1.2 hours actiliar. the exception that temperature elevation tended to return 1-2 hours earlier.

The exception that temperature elevation tended to return 12 indus carnet.

CONTRAINDICATIONS: PediaProfen should not be used in patients who have previously exhibited hypersensitivity to ibuprofen, or in individuals with all or part of the syndrome of nasal polyps, angioedema and bronchospastic reactivity to aspirin or other nonsteroidal anti-inflammatory agents. Anaphylactoid reactions have occurred in such patients.

WARNINGS: Risk of GI Ulceration, Bleeding and Perforation with NSAID Therapy. Serious gastro-intestinal toxicity such as bleeding, ulceration, and perforation, can occur at any time, with or without warning symptoms, in patients treated chronically with NSAID therapy. Although minor upper gastro-intestinal problems, such as dyspepsia, are common, usually developing early in therapy, physicians should remain alert for ulceration and bleeding in patients treated chronically with NSAIDs even in the absence of previous GI tract symptoms. In patients observed in clinical trials of several months to two years duration, symptomatic upper GI ulcers, gross bleeding or perforation appear to occur in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. Physicians should inform patients about the signs and/or symptoms of serious GI toxicity and what steps to take if they occur.

steps to take if they occur.

Studies to date have not identified any subset of patients not at risk of developing peptic ulceration and bleeding. Except for a prior history of serious GI events and other risk factors known to be associated with peptic ulcer disease, such as alcoholism, smoking, etc., no risk factors (e.g., age, sex) have been associated with increased risk. Elderly or debilitated patients seem to tolerate ulceration or bleeding less well than other individuals and most spontaneous reports of fatal GI events are in this population. Studies to date are inconclusive concerning the relative risk of various NSAIDs in causing such reactions. High doses of any NSAID probably carry a greater risk of these reactions, although controlled clinical trials showing this do not exist in most cases. In considering the use of relatively large doses (within the recommended dosage range), sufficient benefit should be anticipated to offset the potential increased risk of GI toxicity. pated to offset the potential increased risk of GI toxicity.

PRECAUTIONS: General: Blurred and/or diminished vision, scotomata, and/or changes in color vision have been reported. If a patient develops such complaints while receiving PediaProlen, the drug should be discontinued and the patient should have an ophthalmologic examination which includes central visual fields and color vision testing.

Fluid retention and edema have been reported in association with ibuprofen; therefore, the drug should be used with caution in patients with a history of cardiac decompensation or hypertension.

PediaProfen, like other nonsteroidal anti-inflammatory agents, can inhibit platelet aggregation, but the effect is quantitatively less and of shorter duration than that seen with aspirin. Ibuprofen has been shown to prolong bleeding time (but within the normal range) in normal subjects. Because this prolonged bleeding effect may be exaggerated in patients with underlying hemostatic defects, PediaProfen should be used with caution in persons with intrinsic coagulation defects and those on asticoavulent theraps. anticoaquiant therapy

Patients on PediaProten should report to their physicians signs or symptoms of gastrointestinal ulceration or bleeding, blurred vision or other eye symptoms, skin rash, weight gain, or edema.

In order to avoid exacerbation of disease of adrenal insufficiency, patients who have been on prolonged corticosteroid therapy should have their therapy tapered slowly rather than discontinued abruptly when ibuprofen is added to the treatment program.

The antipyretic and anti-inflammatory activity of PediaProfen may reduce fever and inflammation, thus diminishing their utility as diagnostic signs in detecting complications of presumed noninfec-tious, noninflammatory painful conditions.

Since ibuprofen is eliminated primarily by the kidney, patients with significantly impaired renal function should be closely monitored and a reduction in dosage should be anticipated to avoid drug accumulation. Prospective studies on the safety of ibuprofen in patients with chronic renal failure have not been conducted.

Safety and efficacy of PediaProfen in children below the age of 6 months has not been established. Pregnancy: Reproductive studies conducted in rats and rabbits at doses somewhat less than the maximal clinical dose did not demonstrate evidence of developmental abnormalities. However, animal reproduction studies are not always predictive of human response. As there are no adequate and well-controlled studies in pregnant women, this drug should be used during pregnancy only if clearly needed. Because of the known effects of nonsteroidal anti-inflammatory drugs on the fetal cardiovascular system (closure of ductus arteriosus), use during late pregnancy should be avoided. As wither drugs known to inhibit prostaglandin synthesis, an increased incidence of dystocia and delayed parturition occurred in rats. Administration of PediaProfen is not recommended during pregnancy.

ADVERSE REACTIONS: The most frequent type of adverse reaction occurring with ibuproten is gastrointestinal. In controlled clinical trials, the percentage of adult patients reporting one or more gastrointestinal complaints ranged from 4% to 16%.

Adverse reactions occurring in 3% to 9% of patients treated with ibuprofen: nausea, epigastric pain, heartburn, dizziness, rash. Adverse reactions occurring in 1% to 3% of patients: diarrhea, abdominal distress, nausea and vomiting, indigestion, constipation, abdominal cramps or pain, utiliness of GI tract, headache, nervousness, pruritus, tinnitus, decreased appetite, edema, fluid retention (generally responds promptly to drug discontinuation). Still other reactions (less than 1 in 100) have been reported, and are detailed in the full summary of prescribing information.

DOSAGE AND ADMINISTRATION: Shake well prior to administration.

Fever Reduction in Children 6 months to 12 years of age: Dosage should be adjusted on the basis of the initial temperature level (See CLINICAL PHARMACOLOGY for a description of the controlled clinical trial results). The recommended dose is 5 mg/kg if the baseline temperature is less that 102.5 °F or 10 mg/kg if the baseline temperature is greater than 102.5°F. The duration of fever reduction is generally 6-8 hours and is longer with the higher dose. The recommended maximum daily dose is

Mild to moderate pain: 400 mg every 4 to 6 hours as necessary for the relief of pain in adults. In controlled analgesic clinical trials, doses of ibuprofen greater than 400 mg were no more effective than 400 mg dose

HOW SUPPLIED: PediaProfen Ibuprofen Suspension 100 mg/5 ml (teaspoon) —

orange, berry-vanilla flavored Bottles of 4 oz (120 ml)

.....NDC 0045-0469-04 Bottles of 16 oz (480 ml)NDC 0045-0469-16

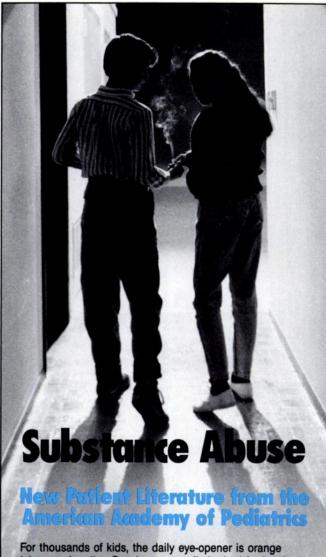
SHAKE WELL BEFORE USING. Store at room temperature.

Caution: Federal law prohibits dispensing without prescription.

McNEIL)

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juice-and vodka. Cocaine can easily be had for lunch money, and marijuana use is so accepted that 5th and 6th graders are blasé about it.

Substance abuse has become a major problem. And the toll? The future of millions of children.

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The Substance Abuse brochures are specially priced: a pack of 300 brochures-100 each of Cocaine, Marijuana, and Alcohol-is only \$40 for AAP members (\$55 for nonmembers). Order today by calling the Academy toll-free: 1-800-433-9016 (in Illinois, 1-800-421-0589).

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Part 1: AS DRUG BABIES GROW OLDER, SCHOOLS STRIVE TO MEET THEIR NEEDS

Los Angeles—The children look like a casting call for Sesame Street, but they carry unseen burdens.

One slim, six-year-old boy sits on the floor with his classmates happily singing an alphabet song. Two years ago, he used to throw hour-long temper tantrums. He would build a tower of blocks, then shout that it was on fire and knock it down. Last year, while classmates watched the space shuttle blast off on television, he banged on his desk and cried.

What little his teachers know of his background helps explain some of his problems. While pregnant with him, his mother used alcohol, cocaine and PCP. After he was born, she would abandon him from time to time in deserted buildings. Once, a building exploded in flames when he was inside. "He had an area in the schoolroom where he could just go and cry," says a social worker at his school.

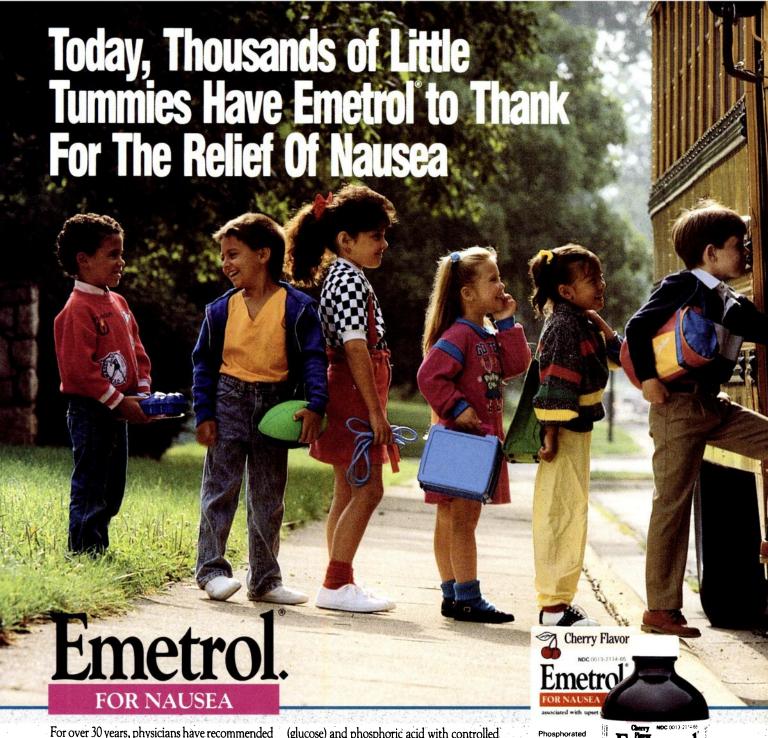
The troubled boy is part of a pilot project here for children exposed to drugs in their mothers' wombs. These 30 or so preschoolers and kindergarteners represent the advance guard of a generation of drug babies who are growing up and starting school. The project's goal is to provide early help to children who are of normal intelligence but considered at high risk for developmental, behavioral and learning problems.

Researchers are just now beginning to uncover a web of problems related to prenatal exposure to crack and other drugs, though much still is not known of the long-term effects. A child's ability to learn may be hampered. A child may have difficulty developing strong attachments for others. Extremes of behavior are common, from apathy to aggression, passivity to hyperactivity, indiscriminate trust to extreme suspicion.

The numbers of afflicted children are multiplying, especially in drug-laden urban areas. Within a few years, 40% to 60% of the children in some inner-city schools will have been prenatally exposed to drugs, predicts [a] clinical professor of pediatrics at the University of California, Los Angeles, School of Medicine, whose research helped spark the project.

Even the suburbs and the urban enclaves of the well-to-do are likely to see the effects of the drug epidemic in their classrooms soon. A 1988 survey of 36 urban and suburban hospitals found that 11% of the newborns had been exposed to drugs in the womb.

Trost C. Second Chance. The Wall Street Journal. December 27,1989.



For over 30 years, physicians have recommended Emetrol for nausea associated with upset stomach of:

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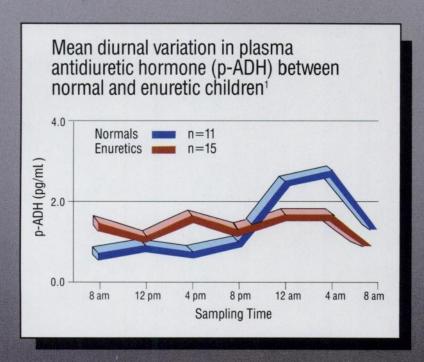
Recommend Emetrol all year long for the relief of nausea associated with upset stomach. It's the liquid antinauseant pediatricians count on most.



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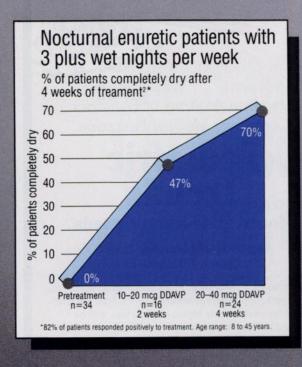
Landmark study concludes: Enuretic children may lack diurnal rhythm of ADH common in non-enuretic children¹



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Please see next page for brief summary of prescribing information.

Part 2: AS DRUG BABIES GROW OLDER, SCHOOLS STRIVE TO MEET THEIR NEEDS

Most schools are ill-prepared to handle, much less nourish, ...drug-exposed children...Their disabilities often frustrate teachers who may not be familiar with their backgrounds. On a recent day, the classroom at the Salvin Special Education School crackles with the combustible energy of three- and four-year-olds pushing dolls in strollers and hurtling down slides. A girl crawls on a visitor's lap. She says playing outside and coloring are her favorite things to do.

She is being raised by her 50-year-old father, who teachers say started using heroin at age 13. Her 26-year-old mother has to go to meetings because she uses drugs, the child says. Her grandmother died of AIDS, contracted from her husband, a drug addict.

Teachers say the little girl is doing well in school, but her actions sometimes betray a wellspring of frustration. Once, a teacher recalls, the child was playing in a sandbox when she got upset. She reached into her sock and pretended to pull out a knife to jab at a boy's face.

Teachers also see more subtle signs of the children's drug exposure and fragmented lives. A girl demands to be left alone, bumps into walls, or stares blankly into space. A boy screams and throws himself on the floor because he wants to be picked up but can't express himself.

On the average, the children in the pilot project have been placed in three different homes; some have been shuffled through as many as seven or eight. Most of the children are being reared by foster parents or grandparents.

Children are referred to the program by hospitals, social service agencies and foster-care providers. But only a tiny percentage can be accepted.

Caring for drug-damaged children demands an extraordinary commitment from the staff - in and out of the classroom. Some ferry children to after-school parties they normally would have missed for lack of transportation. Others spend long hours with children's families or caseworkers. But such care is costly. The Los Angeles Unified School District pays up to \$18,000 a year to educate each of these children. In contrast, it pays an average of \$4,000 a year per child in its regular classrooms.

Trost C. Second chance. The Wall Street Journal. December 27, 1989.



Liquid decongestant/antihistamines can stain a child's clothes and strain a parent's patience. That's why RYNATAN®-S comes complete with its own oral dosing syringe — to help make sure the prescribed amount of medication goes into the child and not onto his outfit.

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Please see full prescribing information.
*Patent pending. RYNATAN®-S is the combination of RYNATAN® Pediatric Suspension (4 fl oz) in a unit of use container and a 10 mL calibrated

oral syringe.
"When used for symptomatic relief of coryza and nasal congestion in allergic rhinitis or the common cold.



Helps give spotless performance – two times daily



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Each teaspoonful (5 mL) contains: phenylephrine tannate, 5 mg; chlorpheniramine tannate, 2 mg; pyrilamine tannate, 12.5 mg.

Description RYNATAN® is an antihistaminic/decongestant combination available for oral administration as Tablets and as Pediatric Suspension. Each tablet contains: Phenylephrine Tannate 25 mg

Chlorpheniramine Tannate Pyrilamine Tannate

Other ingredients: com starch, dibasic calcium phosphate, magnesium stearate, methylcellulose, polygalacturonic acid, talc.

Each 5 mL (teaspoonful) of the Pediatric Suspension contains: Phenylephrine Tannate

5 mg Chlorpheniramine Tannate Pyrilamine Tannate

Other ingredients: benzoic acid, FD&C Red No. 3, flavors (natural and artificial), glycerin, kaolin, magnesium aluminum silicate, methylparaben, pectin, purified water, accharin sodium, sucrose.

Clinical Pharmacology RYNATAN combines the sympathomimetic decongestant effect of phenylephrine with the antihistaminic actions of chlorpheniramine and

Indications and Usage RYNATAN is indicated for symptomatic relief of the coryza and nasal congestion associated with the common cold, sinusitis, allergic rhinitis and other upper respiratory tract conditions. Appropriate therapy should be provided for the primary disease.

indications RYNATAN is contraindicated for newborns, nursing mothers and patients sensitive to any of the ingredients or related compounds.

Warnings Use with caution in patients with hypertension, cardiovascular disease, hyperthyroidism, diabetes, narrow angle glaucoma or prostatic hypertrophy. Use with caution or avoid use in patients taking monoamine (MAO) inhibitors. This product contains antihistamines which may cause drowsiness and may have additive central nervous system (CNS) effects with alcohol or other CNS depressants (e.g., hypnotics, sendatives transmitters). sedatives, tranquilizers)

ations General: Antihistamines are more likely to cause dizziness, sedation and hypotension in elderly patients. Antihistamines may cause excitation, particularly in children, but their combination with sympathomimetics may cause either mild stimulation or mild sedation.

Information for patients: Caution patients against drinking alcoholic beverages or engaging in potentially hazardous activities requiring alertness, such as driving a car or operating machinery while using this product.

Drug interactions: MAO inhibitors may prolong and intensify the anticholinergic effects of antihistamines and the overall effects of sympathomimetic agents.

Carcinogenesis, mutagenesis, impairment of fertility: No long term animal studies have been performed with RYNATAN®.

Pregnancy: Teratogenic effects: Pregnancy Category C. Animal reproduction studies have not been conducted with RYNATAN. It is also not known whether RYNATAN can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. RYNATAN should be given to a pregnant woman only if clearly needed.

Nursing mothers: RYNATAN should not be administered to a nursing woman.

Adverse Reactions Adverse effects associated with RYNATAN at recommended doses have been minimal. The most common have been drowsiness, sedation, dryness of mucous membranes, and gastrointestinal effects. Serious side effects with oral antihistamines or sympathomimetics have been rare

Overdosage Signs and symptoms: May vary from CNS depression to stimulation (restlessness to convulsions). Antihistamine overdosage in young children may lead to convulsions and death. Atropine-like signs and symptoms may be prominent.

Treatment: Induce vomiting if it has not occurred spontaneously. Precautions must be taken against aspiration especially in infants, children and comatose patients. If gastric lavage is indicated, isotonic or half-isotonic saline solution is preferred. Stimulants should not be used. If hypotension is a problem, vasopressor agents may be

Dosage and Administration Administer the recommended dose every 12 hours. RYNATAN Tablets: Adults — 1 or 2 tablets. RYNATAN Pediatric Suspension: *Children over six years of age* — 5 to 10 mL (1 to 2 teaspoonfuls); *Children two to six years of age* — 2.5 to 5 mL (½ to 1 teaspoonful); *Children under two years of age* — Titrate dose individually

How Supplied RYNATAN* Tablets: buff, capsule-shaped, compressed tablets in bottles of 100 (NDC 0037-0713-92) and 500 (NDC 0037-0713-96).

RYNATAN® Pediatric Suspension: pink with strawberry-currant flavor, in 4 fl. oz. bottles (NDC 0037-0715-67, labeled RYNATAN®-S®) and in pint bottles (NDC

Storage: RYNATAN® Tablets — Store at room temperature; avoid excessive heat above 40°C (104°F)

RYNATAN® Pediatric Suspension — Store at controlled room temperature — between 15°C−30°C (59°F−86°F); protect from freezing.

*Patent Pending

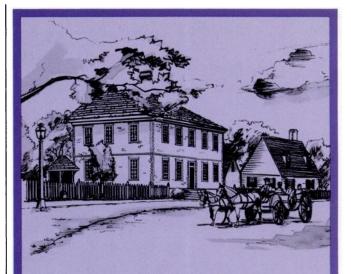
RYNATAN*-S is the combination of RYNATAN Pediatric Suspension (4 fl. oz.) in a unit of use container and a 10 mL, calibrated, oral syringe

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Major indications for GRIFULVIN V griseofulvin microsize are:
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GRIFULVIN V (griseofulvin microsize) inhibits the growth of those genera of fungi that commonly cause ringworm infections of the hair, skin, and nails, such as

Trichophyton rubrum Microsporum audouini Trichophyton tonsurans Microsporum canis Trichophyton mentagrophytes Trichophyton interdigitalis Microsporum gypseum Epidermophyton floccosum Trichophyton verrucosum Trichophyton sulphureum Trichophyton megnini Trichophyton gallinae Trichophyton schoenleini Trichophyton crateriform

Note: Prior to therapy, the type of fungi responsible for the infection should be identified. The use of the drug is not justified in minor or trivial infections which will respond to topical antifungal agents alone

It is not effective in:

Coccidioidomycosis North American Blastomycosis Cryptococcosis (Torulosis) **Bacterial infections** Candidiasis (Moniliasis) Histoplasmosis Actinomycosis Sporotrichosis Nocardiosis Chromoblastomycosis

Contraindications

This drug is contraindicated in patients with porphyria, hepatocellular failure, and in individuals with a history of hypersensitivity to griseofulvin. Two cases of conjoined twins have been reported in patients taking griseofulvin during the first trimester of pregnancy. Griseofulvin should not be prescribed to pregnant patients.

Prophylactic Usage: Safety and efficacy of prophylactic use of this drug has not been established.

Chronic feeding of griseofulvin, at levels ranging from 0.5-2.5% of the diet, resulted in-the development of liver tumors in several strains of mice, particularly in males. Smaller particle sizes result in an enhanced effect. Lower oral dosage levels have not been tested. Subcutaneous administration of relatively small doses of griseofulvin once a week during the first three weeks of life has also been reported to induce hepatomata in mice. Although studies in other animal species have not yielded evidence of tumorigenicity, these studies were not of adequate design to form a basis for conclusions in this regard.

In subacute toxicity studies, orally administered griseofulvin produced hepatocellular necrosis in mice, but this has not been seen in other species. Disturbances in porphyrin metabolism have been reported in griseofulvin-treated laboratory animals. Griseofulvin has been reported to have a colchicine-like effect on mitosis and cocarcinogenicity with methylcholanthrene in cutaneous tumor induction in laboratory animals.

Reports of animal studies in the Soviet literature state that a griseofulvin preparation was found to be embryotoxic and teratogenic on oral administration to pregnant Wistar rats. Rat reproduction studies done thus far in the United States and Great Britain have been inconclusive in this regard, and additional animal reproduction studies are underway. Pups with abnormalities have been reported in the litters of a few bitches treated with griseofulvin.

Suppression of spermatogenesis has been reported to occur in rats but investigation in man failed to confirm this.

Patients on prolonged therapy with any potent medication should be under close observation. Periodic monitoring of organ system function, including renal, hepatic and hemopoietic, should be done.

Since griseofulvin is derived from species of penicillin, the possibility of cross sensitivity with penicillin exists: however, known penicillin-sensitive patients have been treated without difficulty.

Since a photosensitivity reaction is occasionally associated with griseo-fulvin therapy, patients should be warned to avoid exposure to intense natural or artificial sunlight. Should a photosensitivity reaction occur, lupus erythematosus may be aggravated.

Drug Interactions: Patients on warfarin-type anticoagulant therapy may require dosage adjustment of the anticoagulant during and after griseo-fulvin therapy. Concomitant use of barbiturates usually depresses griseofulvin activity and may necessitate raising the dosage.

The concomitant administration of griseofulvin has been reported to reduce the efficacy of oral contraceptives and to increase the incidence of breakthrough bleeding.

Adverse Reactions

When adverse reactions occur, they are most commonly of the hypersensitivity type such as skin rashes, urticaria and rarely, angioneurotic edema, and may necessitate withdrawal of therapy and appropriate countermeasures. Paresthesias of the hands and feet have been reported rarely after extended therapy. Other side effects reported occasionally are oral thrush, nausea, vomiting, epigastric distress, diarrhea, headache, fatigue, dizziness, insomnia, mental confusion and impairment of performance of routine activities.

Proteinuria and leukopenia have been reported rarely. Administration of the drug should be discontinued if granulocytopenia occurs.

When rare, serious reactions occur with griseofulvin, they are usually associated with high dosages, long periods of therapy, or both.

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