

For adults with uncomplicated urethral, endocervical, or

rectal infections caused by Chlamydia trachomatis when tetracycline is contraindicated or not tolerated 500 mp of eptheomycin by mouth four inner a day or two

333 mg tablets orally every 8 hours for at least 7 days.⁶ 500 mg of erythromycin by mouth four times a day or two

For patients with nongonococcal urethritis caused by Ureaplasma ureslyticum when tetracycline is containdicated or notiolerated 500 mg of crythromycin by mouth four times a day or two 303 mg of crythromycin by mouth four times a day or two 333 mg ableto scality every 8 hours for at least seven days.⁶ 200 mg of crythromycin by mouth for at least seven days.⁶

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30 to 40 g given in divided doses over a period of 10 to

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500 mg Erythrocin Lactobionate-LV. (erythromycin lacto-bionate for injection, USP) every 6 hours for 3 days, fol-biowed by 500 mg of erythromycin base orally every 12

assom

Acute Pelvic Inflammatory Disease Caused by N. gonor-

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(Nos. 6346) XX-XXXX-R1-Rev. July, 2013 ERYTHROCIN® STEARATE

Honein, M.A., et. al.: Infantile hypertrophic pyloric stenois after perussis prophylaxis with crythromycin: a case review and cohort study. The Lancet 1999;354 (9196): 2101-5.
Data on file, Arbor Pharmaceuticals, LLC.

Wayne, Pennsylvania 19087, USA, 2012. Oromniego en Nikumuio Feyre, Endocardiovaschia, Endocardiovaschia Disease of the Council on Cardiovascular Disease in the Young, the American Heart Association: Prevention of Rheumatic Fever. Circulation. 78(4):1082-1086. October 1988.

Liboratory Standards Institute, 550 West, USA, 2012. Suite 2500, Wayne, Penney Vannie, Johns, Valley Koad, Clinical and Laboratory Standards Institute (CLSI). Performance Standards for huminrobula discerptibility institute, Twenty-finical and Laboratory Standards Institute, 250 West Valley Road, Suite 2500, Wayne, Performance Standards for huminrobula discerptibility for programme (CLSI). Direst and Laboratory Standards Institute (CLSI). Performance Standards for huminrobula Laboratory Enternet (CLSI). Direst and Laboratory Standards Institute (CLSI). Performance Standards Institute (CLSI). Direst and Laboratory Standards Laboratory Standards Standards Institute, 950 West Valley Road, Suite 2500, Standards Institute, 950 West Valley Road, Suite 2003, Standards Institu

Clinical and Laboratory Standards Institute (CLSI). Waltods for Minton Municolatic Institution Carlo for Bacteria that Grow Nerebically, Approved Standard – Wanih Editon. CL3 document M07-A9. Clinical and Encortory Standards Institution 550 West Majey Road, Suite 500 Warne Bennettonia (1963, 1154, 2013)

tablets imprinted with the Product Code designation ES:

ERYTHROCIN® STEARATE Film-coated, 250 mg pink romycin stearate tablets, USP) are supplied in the following strengths and packages.

ERYTHROCIN® STEARATE Film-coated Tablets (eryth-

utilized in reported clinical data were 1 to 4 g daily in divided doses. Legionnaires' Disease Although optimal dosage has not been established, doses

studies were 40 to 50 mg/kg/day, given in divided doses

Although optimal dosage and duration have not been estab-lished, doses of erythromycin utilized in reported clinical and a size of the second second

500 mg every 12 hours, 333 mg every 8 hours or 250 mg every 6 hours for 10 to 14 days.

hours, or 333 mg of erythromycin base orally every 8 hours

30 to 50 mg/kg/day in divided doses for 10 to 14 days.

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Atlanta, GA 30328 USA Arbor Pharmaceuticals, LLC XX-XXX-R1 Revised: July, 2013

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BEFERENCES

Bottles of 100.....

HOW SUPPLIED

for 5 to 14 days.

Pertussis

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lntestinal Amebiasis Adults

Recommended Storage Store below 86°F (30°C).

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ERYTHROMYCIN STEARATE

TABLETS, USP

 R only

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Film-coated Tablets

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ally every 8 hou splets romycin by mouth four times a day or two erythromycin 333 Although the optimal dose and duration of therapy have not been established, the suggested treatment is 500 mg of erythracnomaus

Urogenital Infections During Pregnancy Due to Chlamydia lished, the recommended therapy is oral erythromycin sus-pension 50 mg/kg/day in 4 divided doses for at least 3 weeks. Although the optimal duration of therapy has not been estabaitemorhant siby Chlamydia trachomatis

Oral erythromycin suspension 50 mg/kg/day in 4 divided doses for at least 2 weeks.⁴ rachomatis

Conjunctivitis of the Newborn Caused by Chlamydia

tions for the prevention of recurring attacks of rheumatic fever in patients allergic to penicillin and sulfonamides.⁴ prophylaxis of streptococcal upper respiratory tract intec-The American Heart Association suggests a dosage of 250 mg of erythromycin orally, twice a day in long-term at least ten days.

In the treatment of streptococcal infections of the upper respiratory tract (e.g., tornsillitis or pharyngińs), the thera-peutic dosige of erythromycin should be administered for al least per dare exceed 4 g per day.

severe infections this dosage may be doubled but should not factors in determining the proper dosage. The usual dosage factors in factors in gugday, in equally divided doses. For more Age, weight, and severity of the infection are important

. иәлрүң are administered.

ing to the severity of the infection. However, twice-a-day dosing is not recommended when doses larger than I g daily are administered 12 hours. Dosage may be increased up to 4 g per day accord-The usual dosage is 250 mg every 6 hours; or 500 mg every stiubA

hours before meals).

obtained when ERYTHROCIN® STEARATE tablets are given in the fasting state (at least 1/2 hour and preferably 2 hour and breaking area. In most patients, ERYTHROCIN® STEARATE Film-coated tablets are well absorbed and may be dosed orally without regard to meals. However, optimal blood levels are NOITAATSINIMDA DNA 3DA2OD

hemodialysis.

Erythromycin is not removed by peritoneal dialysis or should be instituted.

In case of overdosage, erythromycin should be discontinued. Overdosage should be handled with the prompt elimina-tion of unabsorbed drug and all other appropriate measures

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patients receiving high doses of erythromycin.

occurring chiefly in patients with renal insufficiency and in

There have been isolated reports of reversible hearing loss There have been rare reports of pancreatitis and convul-

with erythromycin use. There have been reports of interstitial nephritis coincident

toxic epidermal necrolysis have been reported rarely.

Allergic reactions ranging from unicaria to anaphylaxis have occurred. Skin reactions ranging from mild eruptions to erytherna multiforme, Stevens-Johnson syndrome, and

Erythromycin has been associated with QT prolongation and ventricular arrhythmias, including ventricular tachycar-dia and torsades de pointes. (See WARNINGS).

liver function test results may occur. (See WARNINGS.) Onset of pseudomembranous colitits symptoms may occur during or after antibacterial treatment. (See WARNINGS.)

tions are gastrointestinal and are dose-related. They include nausea, vorniting, abdominal pain, diarrhea and anorexia. Symptoms of hepatitis, hepatic dysfunction and/or abnormal The most frequent side effects of oral erythromycin prepara-

SNOITCAER REACTIONS

with regard to such diseases as congestive heart failure. The geriatric population may respond with a blunted natriuresis to salt loading. This may be clinically important potassium per tablet.

Elderly patients may experience increased effects of oral anticoagulant therapy while undergoing transmissions), erythromytics (See PREALUTIONS - Drug Interactions), erythromytics (See PREALU patients. (See WARNINGS).

Elderly patients may be more susceptible to the devel-opment of torsades de pointes arrhythmias than younger

(NOITAATSINIMAA). ADVERSE REACTIONS and DOSAGE AND developing erythromycin-induced hearing loss. (See

Elderly patients, particularly those with reduced Geriatric Use

See INDICATIONS AND USAGE and DOSAGE AND Pediatric Use

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Nursing Mothers

to 3 times the maximum recommended human dose). There is no evidence of teratogenicity or any other adverse effect on reproduction in female rats fed erythromycin base by oral gavage at 350 mg/kg/day (sphorzymately twice the

> Pregnancy dose on a body surface area basis).

rats treated with erythromycin base by oral gavage at 700 mg/kg/day (approximately 3 times the maximum human There was no apparent effect on male or temale tertility in show genotoxic potential in the Ames, and mouse lympho-ma assays or induce chromosomal aberrations in CHO cells.

Other Microorganisms: Chlamydia trachomatis Entamoeba histolytica Mycoplasma pneumoniae Treponema pallidum Ureaplasma urealyticum

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(Nos. 6346) XX-XXXX-R1-Rev. July, 2013 ERYTHROCIN® STEARATE

To reduce the development of drug-resistant bacteria and maintain the effectiveness of ERYTHROCIN® STEARATE Film-coated tablets and other antibacterial

drugs, ERYTHROCIN® STEARATE Film-coated tablets should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria.

ERYTHROCIN® STEARATE Film-coated tablets (erythromycin stearate tablets, USP) are an antibacterial product containing the stearate salt of erythromycin in a unique film

Erythromycin is produced by a strain of

Sacharopolyspora erythraea (formerly Streptonyces ery-thraeus) and belongs to the macrolide group of antibiotics. It is basic and readily forms salts with acids. Erythromycin

is a white to off-white powder, slightly soluble in water, and soluble in alcohol, chloroform, and ether. Erythromycin

stearate is known chemically as erythromycin octadecanote. The molecular formula of erythromycin stearate is $C_{37}H_{67}NO_{13} \cdot C_{18}H_{36}O_2$, and the molecular weight is 1018.43. The structural formula is:

250 mg tablet: Cellulosic polymers, corn starch, D&C Red No. 7, polacrilin potassium, polyethylene glycol, povidone, propylene glycol, sodium carboxymethylcellulose, sodium

citrate, sorbic acid, sorbitan monooleate and titanium dioxide.

Orally administered erythromycin base and its salts are readily absorbed in the microbiologically active form.

Interindividual variations in the absorption of erythromycin are, however, observed, and some patients do not achieve optimal serum levels. Erythromycin is largely bound to plas-

ma proteins. After absorption, erythromycin diffuses readily into most body fluids. In the absence of meningeal inflam-

mation, low concentrations are normally achieved in the spinal fluid but the passage of the drug across the blood-brain barrier increases in meningitis. Erythromycin crosses the

placental barrier, but fetal plasma levels are low. The drug is excreted in human milk. Erythromycin is not removed by

In the presence of normal hepatic function, erythromycin

is concentrated in the liver and is excreted in the bile; the effect of hepatic dysfunction on biliary excretion of eryth-

romycin is not known. After oral administration, less than

5% of the administered dose can be recovered in the active

Orally administered ERYTHROCIN® STEARATE tab-

lets are readily and reliably absorbed. Optimal serum levels of erythromycin are reached when the drug is taken in the

Erythromycin acts by inhibition of protein synthesis by binding 50S ribosomal subunits of susceptible organisms. It does not affect nucleic acid synthesis.

<u>Mechanism of Resistance</u> The major route of resistance is modification of the 23S rNA in the 50S ribosomal subunit to insensitivity while efflux can the believe the sense of the sense of the sense of the sense.

Antagonism exists in vitro between erythromycin and

clindamycin, lincomycin, and chloramphenicol. Erythromycin has been shown to be active against most isolates

of the following bacteria both in vitro and in clinical infections as described in the INDICATIONS AND USAGE section.

Staphylococcus aureus (resistant organisms may

fasting state or immediately before meals.

СН3-(СН2)16-

ERYTHROMYCIN STEARATE

TABLETS, USP

R only

DESCRIPTION

Inactive Ingredients:

CLINICAL PHARMACOLOGY

peritoneal dialysis or hemodialysis.

form in the urine.

Microbiology Mechanism of Action

also be significant.

Gram-positive Bacteria: Corynebacterium diphtheria Corynebacterium minutissim Listeria monocytogenes

emerge during treatment) Streptococcus pneumoniae Streptococcus pyogenes

Gram-negative Bacteria: Bordetella pertussis Haemophilus influenzae Legionella pneumophila

Neisseria gonorrhoeae

Interactions with Other Antibiotics

coating.

Film-coated Tablets

The following in vitro data are available, but their clinical significance is unknown.

At least 90% of the following bacteria exhibit in vitro minimum inhibitory concentration (MIC) less than or equal to the susceptible breakpoint for erythromycin. However, the efficacy of erythromycin in treating clinical infections due to these bacteria has not been established in adequate and well controlled clinical trials.

Gram-positive Bacteria: Viridans group streptococci

Gram-negative Bacteria:

Susceptibility Test Methods When available the clinical microbiology laboratory should provide the results of *in viro* susceptibility test results for antimicrobial drug products used in resident hospitals to the physician as periodic reports that describe the susceptibility profile of nosocomial and community-acquired pathogens. These reports should aid the physician in selecting an antibacterial drug product for treatment.

Dilution Techniques: Quantitative methods are used to determine antimicrobial minimum inhibitory concentrations (MIC's). These MICs provide estimates of the susceptibility of bacteria to antimi-crobial compounds. The MICs should be determined using a standardized test method^{1,2} (broth and/or agar). The MIC values should be interpreted according to criteria provided in **Table 1**.

Diffusion techniques: Quantitative methods that require measurement of zone diameters can also provide reproducible estimates of the susceptibility of bacteria to antimicrobial compounds. The zone size provides an estimate of the susceptibility of bacteria to antimicrobial an estimate of the size should be determined using a standardized test method.^{2,3} This procedure uses paper disks impregnated with 15 mcg erythromycin to test the suscepti-bility of microorganisms to erythromycin. The disc diffusion interpretive criteria are provided in **Table 1**.

Table 1. In Vitro Susceptibility Test

Interpretive Criteria for Erythromycin

Minimum Inhibitory Concentrations Disk Diffusion (zone diameters

Pathogen	(mcg/mL)			in mm)		
	S	Ι	R	S	Ι	R
Staphylococcus aureus	≤0.5	1-4	≥8	≥23	14-22	≤13
Streptococcus pneumoniae	≤0.25	0.5	≥1	≥21	16-20	≤15
Streptococcus	≤0.25	0.5	≥1	≥21	16-20	≤15

A report of "Susceptible" indicates that the antimicrobial is likely to inhibit growth of the pathogen if the antimicrobial compound reaches the concentrations at the site of infection necessary to inhibit growth of the pathogen. A report of "Intermediate" indicates that the result should be considered "Intermediate" indicates that the result should be considered equivocal, and, if the microorganism is not fully susceptible to alternative, clinically feasible drugs, the test should be repeated. This category implies possible clinical applicability in body sites where the drug product is physiologically concentrated or in situations where high dosage of drug can be used. This category also provides a buffer zone which prevents small uncontrolled technical factors from causing major discrepan-cies in interpretation. A report of "Resistant" indicates that the antimicrobial is not likely to inhibit growth of the pathogen if the antimicrobial commound neaches the concentrations usually the antimicrobial compound reaches the concentrations usually achievable at the infection site; other therapy should be selected.

Quality Control: Quanty Control: Standardized susceptibility test procedures require the use of laboratory controls to monitor and ensure the accuracy and precision of supplies and reagents used in the assay, and the techniques of the individuals performing the test.^{1,2,3,4} Standard erythromycin powder should provide the following range of MIC values noted in **Table 2**. For the diffusion technique using the 15 more direct the opticine in **Table 2** and the should be ablanced the 15 mcg disk, the criteria in Table 2 should be achieved.

Table 2. Acceptable Quality Control

Ranges for Erythromycin Minimum Inhibitory Disk Diffusion Concentrations (zone diam **OC** Strain (mcg/mL) eters in mm) Staphylococcus 0.25-1 NA ATCC 29213 Staphylococcus NA 22-30 ATCC 25923 Enterococcus 1-4 NA ATCC 29212 Streptococcus 0.03-0.12 25-30 ATCC 49619

INDICATIONS AND USAGE

To reduce the development of drug-resistant bacteria and maintain the effectiveness of ERYTHROCIN® STEARATE Film-coated tablets and other antibacterial drugs, ERYTHROCIN® STEARATE Film-coated tablets should be used only to treat or prevent infections that are proven or strongly suspected to be caused by susceptible bacteria. When culture and susceptibility information are available, they should be considered in selecting or modify-ing antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to

the empiric selection of therapy. ERYTHROCIN[®] STEARATE tablets are indicated in the treatment of infections caused by susceptible strains of the designated microorganisms in the diseases listed below: Upper respiratory tract infections of mild to moderate degree caused by Streptococcus pyogenes; Streptococcus pneumoniae; Haemophilus influenzae (when used con-comitantly with adequate doses of sulfonamides, since many strains of H. influenzae are not susceptible to the erythromy cin concentrations ordinarily achieved). (See appropriate sulfonamide labeling for prescribing information.)

Lower respiratory tract infections of mild to moderate severity caused by Streptococcus pyogenes or Streptococcus

Listeriosis caused by Listeria monocytogeness Respiratory tract infections due to Mycoplasma pneu

Skin and skin structure infections of mild to mod-

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exercised when erythromycin is administered to a nursing Erythromycin is excreted in human milk. Caution should be

uwonan. The effect of erythromycin on labor and delivery is

Labor and Delivery

by oral gavage to pregnant rats and mice at 700 mg/kg/day and to pregnant rabbits at 125 mg/kg/day (approximately 1 for the second loxicity was observed when erythromycin dase was given area) prior to and during mating, during gestation, and through weaming. No evidence of teratogenicity or embryo-toxicity use observed when artthromycin base use given maximum recommended human dose on a body surface

> Pregnancy Category B ן פּגַשַּנָסַמַפּּטוּכ דְּנָנָפּכָנָצ

500 mg/kg/day (approximately 1 to 2 fold of the maximum human dose on a body surface area basis) did not provide evidence of tumorigenicity. Erythromycin stearate did not Carcinogenesis, Mutagenesis, Impaiment of Ferdility Long-term oral dietary studies conducted with erythromycin stearate in rais up to 400 mg/kg/day and in mice up to about

rate severity caused by Streptococcus pyogenes or taphylococcus aureus (resistant staphylococci may emerge during treatment).

Pertussis (whooping cough) caused by *Bordetella pertus-*sis. Erythromycin is effective in eliminating the organism from the nasopharynx of infected individuals, rendering them noninfectious. Some clinical studies suggest that eryth-romycin may be helpful in the prophylaxis of pertussis in exposed susceptible individuals.

Diphtheria: Infections due to Corynebacterium diphthe-riae, as an adjunct to antitoxin, to prevent establishment of carriers and to eradicate the organism in carriers.

Erythrasma: In the treatment of infections due to Corynebacterium minutissimum.

Intestinal amebiasis caused by Entamoeba histolytical (oral erythromycins only). Extraenteric amebiasis requires treatment with other agents.

Acute pelvic inflammatory disease caused by Neisseria gonorrhoeae: Erythrocin[®] Lactobionate-I.V. (erythromycin lactobionate for injection, USP) followed by erythromycin base orally, as an alternative drug in treatment of acute pelvic inflammatory disease caused by *N. gonorrhoeae* in female patients with a history of sensitivity to penicillin. Patients should have a serologic test for syphilis before receiving erythromycin as treatment of gonorrhea and a follow-up serologic test for syphilis after 3 months.

Erythromycins are indicated for treatment of the follow ing infections caused by *Chlamydia trachomatis*: conjuncti-vitis of the newborn, pneumonia of infancy, and urogenital infections during pregnancy. When tetracyclines are contraindicated or not tolerated, erythromycin is indicated for the treatment of uncomplicated urethral, endocervical, or rectal infections in adults due to Chlamydia trachomatis.

When tetracyclines are contraindicated or not tolerated, erythromycin is indicated for the treatment of nongonococcal urethritis caused by Ureaplasma urealyticum.

Primary syphilis caused by *Treponema pallidum*. Erythromycin (oral forms only) is an alternative choice of treatment for primary syphilis in patients allergic to the penicillins. In treatment of primary syphilis, spinal fluid should be examined before treatment and as part of the follow-up after therapy.

Legionnaires' Disease caused by Legionella pneumoph-ila. Although no controlled clinical efficacy studies have been conducted, in vitro and limited preliminary clinical data suggest that erythromycin may be effective in treating Legionnaires' Disease.

Prophylaxis

Prevention of Initial Attacks of Rheumatic Fever Penicillin is considered by the American Heart Association to be the drug of choice in the prevention of initial attacks of rheumatic fever (treatment of Streptococcus pyogenes infections of the upper respiratory tract e.g., tonsillitis, or pharyngitis).⁴ Erythromycin is indicated for the treatment of penicillin-allergic patients. The therapeutic dose should be administered for ten days.

Prevention of Recurrent Attacks of Rheumatic Fever Penicillin or sulfonamides are considered by the American Heart Association to be the drugs of choice in the prevention of recurrent attacks of rheumatic fever. In patients who are allergic to penicillin and sulfonamides, oral erythromycin is recommended by the American Heart Association in the long-term prophylaxis of streptococcal pharyngitis (for the prevention of recurrent attacks of rheumatic fever).⁴

CONTRAINDICATIONS

Erythromycin is contraindicated in patients with known hypersensitivity to this antibiotic. Erythromycin is contraindicated in patients taking terfenadine, astemizole, cisapride, pimozide, ergotamine, or dihydroergotamine. (See **PRECAUTIONS** - *Drug*

Interactions.) WARNINGS

Hepatotoxicity

There have been reports of hepatic dysfunction, including increased liver enzymes, and hepatocellular and/or choles-tatic hepatitis, with or without jaundice, occurring in patients receiving oral erythromycin products

QT Prolongation

Erythromycin has been associated with prolongation of the QT interval and infrequent cases of arrhythmia. Cases of torsades de pointes have been spontaneously reported during postmarketing surveillance in patients receiving erythromycin. Fatalities have been reported. Erythromycin should be avoided in patients with known prolongation of the QT interval, patients with ongoing proarrhythmic conditions such as uncorrected hypokalemia or hypomagnesemia, clinically significant bradycardia, and in patients receiving Class IA (quinidine, procainamide) or Class III (dofetilide, amiodarone, sotalol) antiarrhythmic agents. Elderly patients may be more susceptible to drug-associated effects on the QT interval.

Syphilis in Pregnancy

There have been reports suggesting that erythromycin does not reach the fetus in adequate concentration to prevent congenital syphilis. Infants born to women treated during pregnancy with oral erythromycin for early syphilis should be treated with an appropriate penicillin regimen.

Clostridium difficile Associated Diarrhea

Clostridium difficile associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, includ-ing ERYTHROCIN[®] STEARATE Film-coated tablets,

and may range in severity frave. The time-coalect tables, and may range in severity frave. The time-coalect tables, Treatment with antibacterial agents alters the normal flora of the colon leading to overgrowth of *C* difficile. *C* difficile produces toxins: A and B which contribute to the development of CDAD. Hypertoxin producing strains of *C*. difficile cause increased morbidity and mortality, as these infections can be refractory to antimicrohial therapy. these infections can be refractory to antimicrobial therapy and may require colectomy. CDAD must be considered in all patients who present with diarrhea following antibiotic use. Careful medical history is necessary since CDAD has been reported to occur over two months after the administration of antibacterial agents.

If CDAD is suspected or confirmed, ongoing antibiotic use not directed against *C. difficile* may need to be discontin-ued. Appropriate fluid and electrolyte management, protein entation, antibiotic treatment of C. difficile, and surgical evaluation should be instituted as clinically indicated. Drug Interactions

Serious adverse reactions have been reported in patients taking erythromycin concomitantly with CYP3A4 substrates. These include colchicine toxicity with colchicine; rhabdomyolysis with simvastatin, lovastatin, and atorvastatin; and hypotension with calcium channel blockers metabolized by CYP3A4 (e.g., verapamil, amlodipine, diltiazem) (see **PRECAUTIONS** - *Drug Interactions*).

There have been post-marketing reports of colchicine tox-icity with concomitant use of erythromycin and colchicine. This interaction is potentially life-threatening, and may occur while using both drugs at their recommended doses (see PRECAUTIONS - Drug Interactions). Rhabdomyolysis with or without renal impairment has been reported in seriously ill patients receiving erythro-mycin concomitantly with lovastatin. Therefore, patients receiving concomitant lovastatin and erythromycin should be carefully monitored for creatine kinase (CK) and serum transaminase levels. (See package insert for lovastatin.)

f urinary catecholamina Erythromycin interferes with the fluorometric determination Drug/Laboratory Test Interactions

symptoms of colchicine toxicity (see WARNINGS). should be lowered. Patients should be monitored for clinical such as erythromycin. If co-administration of colchicine and erythromycin is necessary, the starting dose of colchicine may need to be reduced, and the maximum colchicine dose about to private and the maximum contribution and the about the human of the private starting dose of the private starting and the private starting dose of the private starting dose and the private starting and the private starting dose of the private starting and the private starting dose of the private starting dose of the private starting and the private starting and the private starting dose of the private starti sidered a moderate inhibitor of CYP3A4. A significant increase in colchicine plasma concentration is anticipated when co-administered with moderate CYP3A4 inhibitors Colchicine is a substrate for both CYP3A4 and the efflux transporter P-glycoprotein (P-gp). Erythromycin is con-อนเวเนวเดว

been reported. (See CONTRAINDICATIONS).

ades de pointes, most likely due to the inhibition of hepatic metabolism of cisapride by erythromycin. Fatalities have ventricular tachycardia, ventricular fibrillation, and tors-There have been post-marketing reports of drug interac-tions when erythromycin was co-administered with cis-apride, resulting in QT prolongation, cardiae arthrithmias, constraints the result of the second secon

tion, deaths have been reported rarely with concomitant administration of terfenadine and erythromycin. been observed. (See CONTRAINDICATIONS.) In addi-tional contraction of the second s serious cardiovascular adverse events, including electro-cardiographic QT/QT_c interval prolongation, cardiac arrest, torsades de pointes, and other venticular anthythinise, have Erythromycin has been reported to significantly alter the metabolism of the nonsedating antihistamines terfenadine and asternizole when laken concomitantly. Rare cases of

In addition, there have been reports of interactions of erythromycin with dargs not thought to be metabolized by CYP3A, including hexobarbital, phenytom, and valproate,

cated. (See CONTRAINDICATIONS.)

Concornitant administration of erythromycin with cis-apride, pirnoside, astemizole, or terfenadine is contraindistazol, vinblastine, and bromocriptine.

sporine, carbamazepine, tacrolimus, alfentanil, disopyra-mide, rifabutin, quinidine, methyl-prednisolone, cilo-mide, riftlogin, quinidine, methyl-prednisolone, cilo-CYP3A based interactions of erythromycin with cycloage should be considered. (See Viagra package insert.) There have been spontaneous or published reports of exposure (AUC) of sildensfil. Reduction of sildensfil dos-

Sildenafil (Viagra) Erythromycin has been reported to increase the systemic (MUC) of alloned to increase the systemic reported in patients taking these drugs concomitantly.

Erythromycin has been reported to increase concentrations of HMG-CoA reductase inhibitors (e.g., lovastatin and simvastatin). Rare reports of rhabdomyolysis have been

storididal esetsubeA AoD-DMH

pharmacologic effect of these benzodiazepines.

Erythromycin has been reported to decrease the clearance of triazolam and midazolam, and thus, may increase the

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ergotamine or dihydroergotamine is contraindicated (see Concomitant administration of erythromycin with terized by vasospasm and ischemia of the extremities and other tissues including the central nervous system. has been associated with acute ergot toxicity charac-Post-marketing reports indicate that co-administration of erythromycin with ergotamine or dihydroergotamine hos bean associated with outle great toxicity obviou Егдотатіпе/огілудгоегдотатіпе

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The following CYP3A based drug interactions have been observed with erythromycin products in post-marketing The following are examples of some clinically significant CYP3A based drug interactions. Interactions with other drugs metabolized by the CYP3A isoform are also possible.

patients concurrently receiving erythromycin. concomitant drug. Dosage adjustments may be considered, and when possible, serum concentrations of drugs primar-ily metabolized by CYP3A should be monitored closely in metabolized power and a serum of the monitored closely in the service construction of the service ser elevations in drug concentrations that could increase or prolong both the therapeutic and adverse effects of the form subfamily of the cytochronic p450 enzyme system (CYP3A). Coadministration of erythromycin and a drug primarily metabolized by CYP3A may be associated with

tions of erythromycin with oral anticoagulants may be more pronounced in the elderly. Erythromycin is a substrate and inhibitor of the 3A iso-

There have been reports of increased anticoagulant effects when erythromycin and oral anticoagulants were used con-comitantly. Increased anticoagulation effects due to interac-

belonging to the calcium channel blockers drug class. Concomitant administration of erythromycin and digoxin has been reported to result in elevated digoxin serum levels.

result in subtherapeutic concentrations of erythromycin. Hypotension, bradyarrhythmias, and lactic acidosis have been observed in patients receiving concurrent veraparail,

approximately 35%. The mechanism by which this interac-tion occurs is unknown. The decrease in erythromycin con-centrations due to co-administration of theophylline could

There have been published reports suggesting that when oral erythromycin is given concurrently with theophylline there is a decrease in erythromycin serum concentrations of

case of theophylline toxicity and/or elevated serum theophyl-line levels, the dose of theophylline should be reduced while the patient is receiving concomiant erythromycin therapy.

Erythromycin use in patients who are receiving high doses of theophylline may be associated with an increase in serum theophylline levels and potential theophylline toxicity. In

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should contact their physician as soon as possible. taken the last dose of the antibiotic. If this occurs, patients after starting treatment with antibiotics, patients can develop watery and bloody stools (with or without stormsch cramps and fever) even as late as two or more months after having antibacterial drugs in the future. Distribacterial drugs in the future. Usually ends when the antibiotic is discontinued. Sometimes

immediate treatment and (2) increase the likelihood that bacteria will develop resistance and will not be treatable by BRYTHROCIN® STEARATE Film-coated tablets or other course of therapy, the medication should be taken exactly as directed. Skipping doses or not completing the full course of therapy may (1) decrease the effectiveness of the ERYTHROCIN® STEARATE Film-coaled tablets are prescribed to treat a bacterial infection, patients should be told that although it is common to feel better early in the abould only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When ing ERYTHROCIN® STEARATE Film-coated tablets

should be counseled that antibacterial drugs includbite Patie

Reference ID: 3416724

appropriate therapy instituted. When indicated, incision and drainage or other surgical infection occurs, erythromycin should be discontinued and Prolonged or repeated use of erythromycin may result in an overgrowth of nonsusceptible bacteria or fungi. If superui ilus their physician if vomiting or irritability with feeding occurs. inycin therapy needs to be weighed against the potential risk of developing IHPS. Parents should be informed to contact Chlamydia trachomatis infections), the benefit of erythroment of conditions in infants which are associated with sig-nificant mortality or morbidity (such as pertussis or neonatal IS to 21 days.⁵ Since erythromycin may be used in the treatof high states of 5.1% for infants who took erythromycin for 8 to 14 days and 10% for infants who took erythromycin for too 16 days for a state of the states of the state

biotic therapy. procedures should be performed in conjunction with anti-

dose-response effect was described with an absolute risk

ity with feeding and were subsequently diagonsed as hav-ing IHPS requiring surgical pyloromycolomy. A possible

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eryunromycin tor pertussis prophylaxis, seven neonates (5%)

cin therapy. In one cohort of 157 newborns who were given

ing erythromycin during early pregnancy. cular malformations after exposure to drug products contain-Observational studies in humans have reported cardiovas

PRECAUTIONS

General

Prescribing ERYTHROCIN® STEARATE Film-coated tablets in the absence of a proven or strongly suspected bacterial infection or a prophylactic indication is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

Since erythromycin is principally excreted by the liver, caution should be exercised when erythromycin is administered to patients with impaired hepatic function. (See CLINICAL PHARMACOLOGY and WARNINGS.)

Exacerbation of symptoms of myasthenia gravis and new onset of symptoms of myasthenic syndrome has been reported in patients receiving erythromycin therapy.

ve been reports of infantile hypertrophic pyloric stenosis (IHPS) occurring in infants following erythromy-