(Nos. 6326 and 6227) XX-XXXX-R1 Rev. July 2013 **ERYTHROMYCIN** TABLETS, USP Film-coated Tablets R only

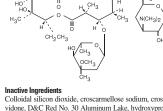
To reduce the development of drug-resistant bacteria and maintain the effectiveness of Erythromycin Tablets and other antibacterial drugs. Erythromycin Tablets should be used only to treat or prevent infections that are proven or strongly

Erythromycin Tablets (erythromycin tablets, USP) are an antibacterial product containing erythromycin, USP, in a unique, nonenteric film coating for oral administration. Erythromycin Tablets are available in two strengths containing either 250 mg or 500 mg of erythromycin base.

suspected to be caused by bacteria.

DESCRIPTION

mg or SOU mg of erythromycin base.
Erythromycin is produced by a strain of Saccharopolyspora
erythraea (formerly Streptomyces erythraeus) 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, sightly soluble in water, and soluble in alcohol, chloroform, and ether. Erythromycin is known chemically as (3R*, 4S*, 5S*, 6R*, 7R*, 9R*, 11R*, 12R*, 13S*, 14R*)-4-[(2,6-dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl) oxyl-14-ethyl-7.12,13-rihydroxy-3.5,79,11,31-bexamethyl-6-[[3,4,6-riideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl] oxyloxacyclotetradecane-2,10-dione. The molecular formula is C₃₇H₆₇NO₁₃, and the molecular weight is 733.94. The structural formula is:



Inactive Ingredients
Colloidal silicon dioxide, croscarmellose sodium, crospovidone, D&C Red No. 30 Aluminum Lake, hydroxypropyl cellulose, hydroxypropyl methylcellulose phthalate, magnesium stearate, microcrystalline cellulose, povidone, polyethylene glycol, propylene glycol, sodium citrate, sodium hydroxide, sorbic acid, sorbitan monooleate, talc, and titanium dioxide. CLINICAL PHARMACOLOGY

CLINICAL PHARMACULOFY
Orally administered crythromycin base and its salts are readily absorbed in the microbiologically active form. Interindividual variations in the absorption of crythromycin are, however, observed, and some patients do not achieve optimal serum levels. Erythromycin is largely bound to plasma proteins. After absorption, crythromycin diffuses readily into most both fluids. In the desenge of manipulation body fluids. In the absence of meningeal inflammation, 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 peritoneal dialysis or hemodialysis. dialysis or hemodialysis.

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 erythromycin is not known. After oral administration, less than 5% of the administered dose can be recovered in the active form in the urine.

Optimal blood levels are obtained when Erythromycin Tablets are given in the fasting state (at least 1/2 hour and preferably 2 hours before meals). Bioavailability data are available from Arbor Pharmaceuticals. Microbiology
Mechanism of Action
Erythromycin acts by inhibition of protein synthesis by binding
50S ribosomal subunits of susceptible organisms. It does not

Interactions with Other Antibiotics
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. Gram-positive Bacteria:

Mechanism of Resistance
The major route of resistance is modification of the 23S rNA

in the 50S ribosomal subunit to insensitivity while efflux can

Listeria monocytogenes Staphylococcus aureus (resistant organisms may emerge during treatment) Streptococcus pneumoniae Streptococcus pyogenes Gram-negative Bacteria

Corynebacterium diphtheriae Corynebacterium minutissimum

affect nucleic acid synthesis.

also be significant.

Bordetella pertussis Haemophilus influenzae Legionella pneumophila Neisseria gonorrhoeae

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

The following in vitro data are available, but their clinical significance is unknown. At least 90% of the following bacteria exhibit in vitro

drug product for treatment. Dilution Techniques:

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 <u>Gram-negative Bacteria:</u> *Moraxella catarrhalis*

Susceptibility Test Methods Susceptibility 18 methods: When available the clinical microbiology laboratory should provide the results of in vitro 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

Quadriative Heatinus are used to teachine aministronia minimum inhibitory concentrations (MIC's). These MICs provide estimates of the susceptibility of bacteria to antimicrobial 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. <u>Diffusion techniques:</u> Quantitative methods that require measurement of zone diameters

Quantitative methods are used to determine antimicrobial

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 compounds. The zone size should be determined using a standardized test method.^{2,3} This procedure uses paper disks impregnated with 15 mcg erythromycin to test the susceptibility of microorganisms to erythromycin. The disc diffusion interpretive criteria are provided in Table 1. Table 1. In Vitro Susceptibility Test Interpretive Criteria for Erythromyci Minimum Inhibitory Disk Dillusion
Concentrations (zone diameters in mm)

S R Pathogen I

Staphylococcus aureus	≤0.5	1-4	≥8	≥23	14-22	≤13
Streptococcus pneumoniae	≤0.25	0.5	≥1	≥21	16-20	≤15
Streptococcus pyogenes	≤0.25	0.5	≥1	≥21	16-20	≤15
A report of "Susce likely to inhibit gro compound reaches necessary to inhib "Intermediate" indi equivocal, and, if the	wth of the con it grow cates th ne micro	the pa centra th of at the	thoger tions a the pa result : ism is	n if the at the si thogen should not fu	antimie ite of in n. A rep be cons lly susc	crobial fection port of sidered eptible

equivoca, and, in the microorganism is not ruly susceptione to alternative, clinically feasible drugs, the test should be repeated. This category implies possible clinical applicabil-ity 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 prevents small uncontrolled exercising a report of "Resistant" indicates that the antimicrobial is not likely to inhibit growth of the pathogen if the antimicrobial compound reaches the concentrations usually achievable at the infection site; other therapy should be selected. Standardized susceptibility test procedures require the use of laboratory controls to monitor and ensure the accuracy and narotrary controls to frontion 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 mcg disk, the criteria in Table 2 should be achieved. Table 2. Acceptable Quality Control Ranges for Erythromycin

Inhibitory Concentrations (mcg/mL) Diffusion (zone diam-eters in mm) QC Strain Staphylococcus aureus ATCC 29213 Staphylococcus NA 22-30 aureus ATCC 25923

Enterococcus

ATCC 29212

Minimum

Disk

NA

Streptococcus 0.03-0.12 25-30 pneumoniae ATCC 49619 INDICATIONS AND USAGE To reduce the development of drug-resistant bacteria and maintain the effectiveness of Erythromycin Tablets, USP and other antibacterial drugs, Erythromycin Tablets, USP 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 modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy. Erythromycin Tablets, USP are indicated in the treatment

influenzae are not susceptible to the erythromycin 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 pneumoniae. Listeriosis caused by Listeria monocytogenes. Respiratory tract infections due to Mycoplasma pneumoniae Skin and skin structure infections of mild to moderate severity caused by Streptococcus pyogenes or Staphylococcus aureus (resistant staphylococci may emerge during treatment).

Enymonych a packs, CSF are mucaced in the deathern 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 progeners, Streptococcus pneumoniae; Haemophilus influenzae (when used concomitantly with adequate doses of sulfonamides, since many strains of H. influenzae trapport tracerity to the parthern programment of the programment

aureus (resistant staphy)tococci may ehrege during treatment). Pertussis (whooping cough) caused by Bordetella pertussis. Erythromycin is effective in eliminating the organism from the nasopharynx of infected individuals, rendering them noninfectious. Some clinical studies suggest that erythromycin may be helpful in the prophylaxis of pertussis in exposed susceptible individuals.

Diphtheria: Infections due to Corynebacterium diphtheriae, as an adjunct to antitoxin, to prevent establishment of carriers and to eradicate the organism in carriers. as an adjunct to annuolant, to prevent establishment of carners and to eradicate the organism in carriers.

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

Intestinal amebiasis caused by Entamoeba histolytica (oral erythromycins only). Extraenteric amebiasis requires treatment

erythromycins only). Extraenteric amebiasis requires freatment with other agents.

Acute pelvic inflammatory disease caused by Neisseria gonorrhoeae: Erythrocin® Lactobionate-LV. (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 followant serologic test for

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 following infections caused by Chlamydia trachomatis: conjunctivitis 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.

When tetracyclines are contraindicated or not tolerated. adults due to Chlamydia trachomatis.³

When tetracyclines are contraindicated or not tolerated, erythromycin is indicated for the treatment of nongonococcal urethritis caused by Ureaplasma urealyticum.³

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

Legionnaires' Disease. **Prophylaxis** Prevention of Initial Attacks of Rheumatic Fever Previous of minute and the state of 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 Pencillin 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 pencillin 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

Erythromycin is contraindicated in patients with known hypersensitivity to this antibiotic.

Erythromycin is contraindicated in patients taking terfenadine, astemizole, cisapride, pimozide, ergotamine, or dihydroergota-mine. (See **PRECAUTIONS** - *Drug Interactions*.) WARNINGS Hepatotoxicity
There have been reports of hepatic dysfunction, including increased liver enzymes, and hepatocellular and/or cholestatic hepatitis, with or without jaundice, occurring in patients receiv-

CONTRAINDICATIONS

ing oral erythromycin products. QT Prolongation

been reported. Elythomorphism stood to a voluce 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.

Erythromycin has been associated with prolongation of the QT interval and infrequent cases of arrhythmia. Cases of torsades to pointes have been spontaneously reported during postmarketing surveillance in patients receiving erythromycin. Fatalities have

been reported. Erythromycin should be avoided in patients with

Syphilis in Pregnancy

Sphinis in regulars. There have been reports suggesting that erythromycin does not reach the fetus in adequate concentration to prevent congenital syphilis. Infains 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, including Erythromycin Tablets, and may range in severity from mild diarrhea to fatal colitis. 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. Henotheric produces toxins of the development of CDAD. the development of CDAD. Hypertoxin producing strains of C. difficile cause increased morbidity and mortality, as 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 proported to the contract of the proportion of the contract of

reported to occur over two months after the administration 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 discontinued. Appropriate fluid and electrolyte management, protein supplementation, 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 toxicity 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 erythromycin concomitantly with lovastatin. Therefore, patients receiving concomitant lovastatin and erythromycin should be carefully monitored for creatine kinase (CK) and serum transaminase lavale (Sac produces in the lovastatin and explanations). levels. (See package insert for lovastatin.)

PRECAUTIONS

Drug Interactions).

Prescribing Erythromycin 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. (OVER)

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ERYTHROMYCIN TABLETS, USP Film-coated Tablets R only

KXXXX-R1 Revised: July, 2013 stenosis after pertussis prophylaxis with erythromycin: a case review and cohort study. The Lancet 1999;354 (9190); 2101-5.
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Honein, M.A., et. al.: Infantile hypertrophic pyloric Committee on Rheumatic Fever, Endocarditis, and Kawasaki 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

Peningywant 1906, Co. Az. (2013).
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Performance Standards for Antimicrobial Disk Diffusion
Performance Standards for Antimicrobial Disk Diffusion
CLSI document Mosts, Pests Approved Standards and Laboratory
Class I document Most Valley Road, Suite 2500,
Standards Institute, 950 West Valley Road, Suite 2500,
Wayruc, Pennsylvania 19087, USA, 2012.

REFERENCES

Erythromycin Tablets are supplied as pink, unscored oval tablets in the following strengths and packages. Legionnaires' Disease Although optimal dosage has not been established, doses utilized in reported clinical data were 1 to 4 g daily in divided doses.

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

 $500\,\mathrm{mg}$ every 12 hours or 250 mg every 6 hours for 10 to 14 days.

7600 mg Erythrocin [®] Lactobionate-LV. (erythromycin factobion-ate for injection, USP) every 6 hours for 3 days, followed by 500 mg of erythromycin base orally every 12 hours for 7 days.

500 mg of erythromycin by mouth four times a day for at Ureaplasma urealyticum when tetracycline is contraindi-cated or not tolerated For patients with nongonococal urethritis caused by

at least 7 days. For women who cannot tolerate this regimen, a decreased dose of one erythromycin 500 mg tablet orally every 12 hours or 250 mg by mouth four times a day should be used for at least 14 days. tomycin by mouth four times a day on an empty stomach for

vacionatus

Although the optimal dose and duration of therapy have not been established, the suggested treatment is 500 mg of erythnia of Infancy Caused by Chlamydia trachor

of erythronyein should be administered for at least fen days.

The American Heart Association suggests a dosage of 250 mg of erythromyein orally, twice a day in long-term prophylaxis of streptococcal upper respiratory tract infections for the prevention of recurring attacks of theundard them and sulfaction for the prevention of recurring attacks of theundard particular and sulfaction for the prevention of recurring attacks of them and sulfaction for the prevention of recurring attacks of them and sulfaction for the prevention of recurring attacks.

Age, weight, and severity of the inflection are important factors in deciented to 30 to 50 so 10 so 30 than 1 g daily are administered.

In most patients, Erythromycin Tablets are well absorbed and may be dosed orally without regard to meals. However, optimal proceed orally without person Erythromycine Tablets may not be a continued to the continue of the continued or the contin NOTARTZINIMUA UNA 3DAZOU

There have been reports of interstitial nephritis coincident with early about the coincident of the control of

uning of anter amondacerian deather; (see WARMINGS)
Erythromyein has been associated with QT prolongation
and ventricular arrhythmias, including ventricular tachycardia
and torades de pointes, (See WARMINGS,)
Allergic reactions ranging from unitearia to anaphylaxis
have occurred. Skin reactions ranging from mild eruptons to
erytherma multiforme, Slevens-Johnson syndrome, and toxic
gridermas neutriforme, Slevens-Johnson syndrome, and toxic
There have been reporte interstitation of the properties of the propertie vomiting, abdominal pain, diarrhea and ancoraxia. Symptoms of bepatities, hepatic dysfunction and/or abnormal liver function lest results may occur. (See WARNIUGS.)

Onest of pseudomembranous colities symptoms may occur during or after amtheacterial treatment. (See WARNIUGS.)

Evolpromini has been associated with OT profuseration

Evolpromini has been associated with OT profuseration The most frequent side effects of oral erythromycin preparations are gastrointestinal and are dose-related. They include nausea,

Erythromycin Tablets (500 mg) contain 17 mg (0.7 mEq) Elderly patients may experience increased effects of oral anticoagulant theatry while undergoing realment with erythromycin. (See PRECAITIONS—Drug Interactions).

Erythromycin Tablete (250 mg) contain 8.5 mg (0.4 mEq) of sodium per tablet.

Erythromycin Tablete (300 mg) contain B. (300 mg) and be tablet.

Erythromycin Tablete (300 mg) contain I mg (0.4 mEq) mg (0.4 mg) and mg (0.

Pediatric Use $_{\rm Sec}$ Indications and Usage and Dosage and Dosage and Dosage and Dosage $_{\rm Sec}$ exercised when erythromycin is administered to a nursing woman. Erythromycin is excreted in human milk. Caution should be Nursing Mothers

The effect of erythromycin on labor and delivery is unknown. to pregnant rats and mice at $700~\mathrm{mg/kg/day}$ and to pregnant rabbits at $1.25~\mathrm{mg/kg/day}$ (approximately 1 to 3 times the maximum recommended human dose).

rats treated with erythromycin base by oral gavage at $700\,\mathrm{mg}$ kg/day (approximately 3 times the maximum human dose on a body surface area basis). Carcinogenesis, Mutagenesis, Impainment of Fertility
Long-term oral dietary studies conducted with erythromycin
steasus in rate up o400 mg/kgbwa and in mice up to about
steasus in rate up o400 mg/kgbwa and in mice up to about
human dose on a body surface area basis) did not provide
evidence of tumorgenicity. Erythromycin steasuse did not
evidence of mongenicity. Erythromycin steasuse did not
assays or induce chromosomal abservations in CHO cells.
There was no apparent effect on male or fermale fertility in
rate treated with erythromycin base by onal gavage at 700 mg/

co-administration of colchicine and erythromycin is necessary, the starting dose of colchicine may need to be reduced, and the maximum colchicine dose should be lowered. Patients should be monitored for clinical symptoms of colchicine forus and an administration of colchicine and an administration of the maximum colchicine dose when the maximum colchicine and administration of colchicine and administration of colchicine and administration of colchicine and administration of colchicine and colchic Colcitions is a substrate for both CYP3A4 and the efflux transporter P₂gycoprotein (P-gp). Explitional increase in colciti-rioderate inhibitor of CYP3A4. A significant increase in colcin-ine plasma concentration is anticipated when co-administered the plasma concentration is anticipated when co-administered with moderate CYP3A4 inhibitors such as cyptumycin. If

CONTRAINDICATIONS). tachycardia, ventricular fibrillation, and torsades de pointes, most likely due to the imbibition of hepaite metabolism of crowing erythmomycin. Fatalities have been reported. (See crowing hypothemical properties of the contract of the co There have been post-marketing reports of drug interactions when erythromycin was co-administered with cisapride, resulting in QT prolongation, cardiac arrhythmias, ventricular reported rarely with concomitant administration of terrenadine astemizole when taken concominiantly. Rane cases of serious candiovascular adverse events, including electrocardiographic offfort, interval prolongation, cardiac arrest, torsades de pointes, and other ventricular anthythmitas, have been observed. (See CONTRAINDICATIONS). In addition, deaths have been constructed to the property of the proposed property of the prop

and bromocriptine. Erythromycin has been reported to increase the systemic exposure (AUC) of sildensfil Reduction of sildenafil dosage should be considered (See Viagra package insert.) Sildenafil (Viagra) reported in patients taking these drugs concomitantly HM6-CoA Reductase Inhibitors between the concentrations by HMC-CoA reductase inhibitors (e.g., lovasiatin and simvasiatin). Rare reports of rhabdomyolysis have been

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with erythromycin products in post-marketing experience:

The following are examples of some clinically significant (CYP3A based drug interactions threezedons with obter drugs metabolistic dby the CYP3A isoform as also possible. The following CYP3A based drug interactions have been observed to following CYP3A based drug interactions have been observed. CYP3A should be monitored closely in patients concurrently receiving erythromycin. inderactions of englaronic directs due to inderections of englaronic directs due to offered and redesign and englaronic directs due to the elderty.

The englaronic of erythromycin with oral anticoagulatin may be actorized in the elderty.

Coadministration of erythromycin and a drug primarily metabolized by CYP3A. The conformation of erythromycin and a drug primarily metabolized by CYP3A may be accordated with feetinging in drug concentrations that could increase or prolong both the threstpeutic and adverse effects of the concomitant drug. Dosage adjustments may be accordated with develations are the present and when possible, and the proposed of the proposed of

there is a decrease in erythromycin scrum concentiations of approximately 35%. The mechanism by which this interaction occurs is unknown. The decrease in erythromycin concentration from size the total fresh concentrations of erythromycin. The abbreaspoutic concentrations of erythromycin. There have been reported in patient ediministration of erythromycin and digoxin has been reported to result in elevated digoxin serum levels. There have been reported to result in elevated digoxin serum levels. There have been reporte of increased anticoagularin levels are seen reported to result in elevated digoxin serum levels. There have been reporte of increased anticoagularin levels used concomism of the experimental in the experimental processed anticoagularin levels.

oral erythromycin is given concurrently with theophylline there is a decrease in erythromycin serum concentrations of theophylline levels and potential theophylline toxicity. In case of theophylline includy and of theophylline includy and/or elsevated secun theophylline pevels, the cose of theophylline should be reduced while the patient is receiving concomitant erythromycin therapy.

There have been been applicable that when confirmed the property of the property

ungs in me rumer.

Distribes is a common problem caused by antibiotics which usually ends when the antibiotic is discontinued. Sometimes after starting treatment with antibiotics, patients can develop watery leven as blate as two or more months after having taken be last dose of the ambitotic. If this occurs, patients should be last dose of the ambitotic. If this occurs, patients should he last dose of the ambitotic. If this occurs, patients should he last dose of the ambitotic and the properties. in medication about the tasker search as directed. Stripping doese or not completing the full course of therapy may (1) decrease or not completing the full course of therapy may (1) decrease the effectiveness of the immediate learness and will not be itseltance and will develop resistance and will not be treatable by Erythromycin Tablets or other antibacterial drugs in the future.

stneite¶ rot noitemrotal егућиготусіп during early pregnancy. When indicated, incision and drainage or other surgi-cal procedures should be performed in conjunction with Observational studies in humans have reported cardiovascular malformations after exposure to durg products containing erythromyclin during early pregnancy.

the rapy. In one cohort of 157 newborns who were given cyllennyth in or pentasets prophytais, seven news (3%) according to expension of cyllenyth of

onset of symptoms of mysteria registronic registronic registronic registronic registronic registronic registronic registronic receiving crythromycin dierapy.

There have been reports of infanite hypertrophic populor stenois (HPPS) occurring in infanite hypertrophic populor registronic registro



Clinical and Laboratory Standards Institute (CLSI).

Clinical and Laboratory Standards Institute (CLSI).

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Testing: Twenty-third Informational supplement. CLSI

document M100-825, Clinical and Laboratory Standards

bennsylvania 19087, USA, 2013.

Pennsylvania 19087, USA, 2013.

Pennsylvania 19087, USA, 2013.

Recommended storage Store below $86^{\circ}F$ (30°C). 250 mg tablets (debossed with EB):

Bottles of 100(NDC 24338-102-13)
500 mg tablets (debossed with EA):
Bottles of 100(NDC 24338-104-13).

HOW SUPPLIED

least seven days.⁶

Although optimal dosage and duration have not been established, doses of enythromycin utilized in reported clinical studies were 0.0 to mg/kg/day, given in divided doses for $50~{\rm ng}$ /kg/day, given in divided doses for 5 to $14~{\rm days}$.

Acute Pelvic Inflammatory Disease Caused by N. gonor-Primary syphilis 30 to 40 g given in divided doses over a period of 10 to 15 days.

500 mg of erythromycin by mouth four times a day for at least 7 days.6 $^{\rm 6}$ For adults with uncomplicated urethral, endocervical, or rectal infections caused by Chlamydia trachomatis, when tetracycline is contraindicated or not tolerated

Urogenital Infections During Pregnancy Due to Chlamydia Although the optimal duration of therapy has not been established, the recommended therapy is oral erythromycin suspension 50 mg/kg/day in 4 divided doses for at least 3 weeks. Oral erythromycin suspension of mg/kg/day in 4 divided doses for at least 2 weeks. $^{\rm 4}$

Conjunctivitis of the Newborn Caused by Chlamydia

WICE-a-day dosing is not recommended when doses larger The usual dosage of Erythromycin Tablets is one 250 mg tablet four times daily in equally speaced dosage or one 500 mg tablet four times daily in equally speaced dosage or one 500 mg tablet four times all the speaced with the speace of the are given in the fasting state (at least 1/2 hour and preferably 2 hours before meals).

 $\label{eq:encoder} \mbox{Erythromycin is not removed by peritoneal dialysis} \mbox{ or } \mbox{hemodialysis}.$ In case of overdosage, erythromycin should be discontinued.
Overdosage should be brandled with the prompt elimination of unabsorbed drug and all other appropriate measures should be instituted. OVERDOSAGE patients receiving high doses of erythromycin.

ADVERSE REACTIONS of sodium per table.

The genetic population may respond with a blunted natriumesis to eath coding. This may be clinically important with regard to such diseases as congestive heart failure.

OSAGE AND ADMINISTRATION).

[See WARNINGS.]

Of torsades de pointes arrivalturias than younger patients. Interior, present, persons, pe Elderly patients, particularly those with reduced renal or hepatic

beragogner, Category B.

There is no evidence of teratogenicity or any other adverse effect on reproduction in female rate fed erythromycin base by oral gavage at 350 mg/kg/day (approximately twice the maximum recommended human dose on a body surface wera) prior to an admining mating, during gestation, and through weating. No evidence of teratogenicity or embryotoxicity was wear, prior to so and during mating, and through a construction of the properties of the programming of the properties of the programming to the programming the programming to the program regnancy Feratogenic Effects

Erythromycin interferes with the fluorometric determination of urinary catecholamines. Drug/Laboratory Test Interactions

In addition, there have been reports of interactions of erythromycin with due to thought to be metabolized by Erythromycin with due to thought to be metabolized by Erythromycin has been reported to significantly alter the Erythromycin has been reported to significantly alter the metabolism of the mousedaing antihistamines terfenadine and sequencing the proposition of the proposition of the proposition of the proposition of the metabolism of the metabolism of the proposition of the metabolism of the proposition of t Concomitant administration of erythromycin with cisapride, pimoxide, astemizole, or terfenadine is contraindicated. (See CONTRAINDICATIONS.) There have been spontaneous or published reports of CYP3A based interactions of erythromycin with cyclosporine, carbamarsepine, factolimus, altentianil, disopyramide, rifabutine, methyl-prednisolone, cilostaxol, vimblastine, and bromovrinine

Erythromycin has been reported to decrease the clearance of triazolam and midazolam, and thus, may increase the pharmacologic effect of these benzodiazepines. Ergotamine/dihydroergotamine Post-marketing reports indicate that co-administration of erythromycin with ergotamine or dihydroergotamine has

Erythromycin use in patients who are receiving high doses of theophylline may be associated with an increase in serum of theophylline layele and rotanical theoretical succession.

Patients afound to enumerate the antibacterial drugs including Erythromycin Tablets should only be used to treat bacterial infections. They do not treat a miteratory of the Tablets we presented to treat a bacterial infection, patients Tablets will be presented to the patients about the patients and infection, patients should be told that although it becomes of Interpy, the miscommon to feel better early in the zonce of Interpy, the

Abound be informed to contact their physician if vontining or intribility with feeding occurs, around so from the feeding occurs, erythromycin repeated use of erythromycin may result in an overgrowth of nonsusceptible bacteria or lungi. If superinfection occurs, erythromycin should be discontinued and appropriate the erythromycin should be discontinued and definitioned. When indiscison and definitioned or other superior around the erythromycin should be discontinued and definitioned or other superior around the erythromycin should be discontinued.

stbation of symptoms of myasthenia gravis and ne Since orythromycin is principally excreted by the liver, cau-tion should be exercised when graythromycin is dear daministered to patients with impaired hepatic function, (See CLINICAL, to patients with impaired hepatic function, (See CLINICAL)

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