BENZODOX 60 KIT- doxycycline tablets and advanced acne wash Elorac, Inc.

Disclaimer: This drug has not been found by FDA to be safe and effective, and this labeling has not been approved by FDA. For further information about unapproved drugs, click here.

BenzoDoxTM60 Kit

Rx Only

IContains:

I1 Bottle Doxycycline Tablets, USP, 100mg (60 tablets)

1 Tube Advanced Acne Wash (4.4% Benzoyl Peroxide Extended Release), 3.5 FL OZ (104ml)

Doxycycline Tablets, USP

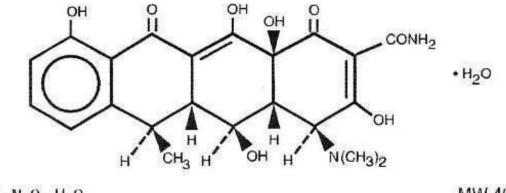
Rx only

To reduce the development of drug-resistant bacteria and maintain the effectiveness of doxycycline tablets and other antibacterial drugs, doxycycline tablets should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria.

DESCRIPTION

Doxycycline tablets, USP is a broad-spectrum antibacterial synthetically derived from oxytetracycline. Doxycycline 100 mg tablets contain doxycycline monohydrate equivalent to 100 mg of doxycycline for oral administration. Inactive ingredients include anhydrous lactose, microcrystalline cellulose, corn starch, colloidal silicon dioxide, magnesium stearate, polyvinyl alcohol, titanium dioxide, polyethylene glycol, talc, D&C yellow #10 aluminum lake, and FD&C yellow #6 aluminum lake. The chemical designation of the light-yellow crystalline powder is 4-(Dimethylamino)-1,4,4a,5,5a,6,11,12aoctahydro-3,5,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacenecarboxamide monohydrate.

Structural formula:



C22H24N2O8+H2O

MW 462.45

Doxycycline tablets, USP has a high degree of lipid solubility and a low affinity for calcium binding. It is highly stable in normal human serum. Doxycycline will not degrade into an epianhydro form.

CLINICAL PHARMACOLOGY

Tetracyclines are readily absorbed and are bound to plasma proteins in varying degrees. They are concentrated by the liver in the bile and excreted in the urine and feces at high concentrations in a

biologically active form. Doxycycline is virtually completely absorbed after oral administration.

Following a 200 mg dose of doxycycline monohydrate, 24 normal adult volunteers averaged the following serum concentration values:

Time (hr):0.51.01.52.03.04.08.012.024.048.072.0Conc. (mcg/mL):1.022.262.673.013.163.032.031.620.950.370.15

Average Observed ValuesMaximum Concentration $3.61 \text{ mcg/mL} (\pm 0.9 \text{ sd})$ Time of Maximum Concentration 2.60 hr ($\pm 1.10 \text{ sd}$)Elimination Rate Constant $0.049 \text{ per hr} (\pm 0.030 \text{ sd})$ Half-Life $16.33 \text{ hr} (\pm 4.53 \text{ sd})$

Excretion of doxycycline by the kidney is about 40%/72 hours in individuals with normal function (creatinine clearance about 75 mL/min). This percentage excretion may fall as low as 1-5%/72 hours in individuals with severe renal insufficiency (creatinine clearance below 10 mL/min). Studies have shown no significant difference in serum half-life of doxycycline (range 18-22 hours) in individuals with normal and severely impaired renal function.

Hemodialysis does not alter serum half-life.

MICROBIOLOGY:

Mechanism of Action

Doxycycline inhibits bacterial protein synthesis by binding to the 30S ribosomal subunit. Doxycycline has bacteriostatic activity against a broad range of Gram-positive and Gram-negative bacteria. Cross resistance with other tetracyclines is common. Doxycycline has been shown to be active against most isolates of the following microorganisms, both in vitro and in clinical infections as described in the INDICATIONS AND USAGE section of the package insert for doxycycline tablets.

Gram-Negative Bacteria

Acinetobacter species Bartonella bacilliformis Brucella species Calymmatobacterium granulomatis Campylobacter fetus Enterobacter aerogenes Escherichia coli Francisella tularensis Haemophilus ducreyi Haemophilus influenzae Klebsiella species Neisseria gonorrhoeae Shigella species Vibrio cholerae Yersinia pestis

Gram-Positive Bacteria

Bacillus anthracis Streptococcus pneumoniae

Anaerobic Bacteria

Clostridium species Fusobacterium fusiforme Propionibacterium acnes

Other Bacteria

Nocardiae and other Actinomyces species Borrelia recurrentis Chlamydophila psittaci Chlamydia trachomatis Mycoplasma pneumoniae Rickettsiae Treponema pallidum Treponema pertenue Ureaplasma urealyticum

Parasites

Balantidium coli Entamoeba species

Susceptibility Testing Methods

When available, the clinical microbiology laboratory should provide the results of in vitro susceptibility test results for antimicrobial drugs 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 the most effective antimicrobial.

Dilution techniques

Quantitative methods are used to determine antimicrobial minimum inhibitory concentrations (MICs). These MICs provide estimates of the susceptibility of bacteria to antimicrobial compounds. The MICs should be determined using a standardized test method (broth and/or agar).^{1,2,4} 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 compounds.

The zone size should be determined using a standardized test method.^{1,3,4} This procedure uses paper disks impregnated with 30 mcg doxycycline to test the susceptibility of microorganisms to doxycycline. The disk diffusion interpretive criteria are provided in **Table 1**.

Anaerobic Techniques

For anaerobic bacteria, the susceptibility to doxycycline can be determined by a standardized test method.⁵ The MIC values obtained should be interpreted according to the criteria provided in **Table 1**.

Table 1: Susceptibility Test Interpretive Criteria for Doxycycline and Tetracycline			
Bacteria*	Minimal Inhibitory Concentration	Zone Diameter	Agar Dilution (mcg

	(mcg per mL)	(mm)	per mL)						
S	Ι	R	S	Ι	R	S	Ι	R	
Acinetobacter spp.									
Doxycycline	≤4	8	≥16	≥13	10- 12	≤9	-	-	-
Tetracycline	≤4	8	≥16	≥15	12- 14	≤11	-	-	-
Anaerobes									
Tetracycline	-	-	-	-	-	-	≤4	8	≥16
Bacillus anthracis†									
Doxycycline	≤1	-	-	-	-	-	-	-	-
Tetracycline	≤1	-	-	-	-	-	-	-	-
Brucella species†									
Doxycycline	≤1	-	-	-	-	-	-	-	-
Tetracycline	≤1	-	-	-	-	-	-	-	-
Enterobacteriaceae									
Doxycycline	≤4	8	≥16	≥14	11- 13	≤10	-	-	-
Tetracycline	≤4	8	≥16	≥15	12- 14	≤11	-	-	-
Franciscella tularensis†									
Doxycycline	≤4	-	-	-	-	-	-	-	-
Tetracycline	≤4	-	-	-	-	-	-	-	-
Haemophilus influenzae									
Tetracycline	≤2	4	≥8	≥29	26- 28	≤25	-	-	-
Mycoplasma pneumoniae†									
Tetracycline	-	-	-	-	-	-	≤2	-	-
Neisseria gonorrhoeae‡									
Tetracycline	-	-	-	≥38	31- 37	≤30	≤0.25	0.5- 1	≥2
<i>Norcardiae</i> and other aerobic <i>Actinomyces</i> species†									
Doxycycline	≤1	2-4	≥8	-	-	-	-	-	-
Streptococcus pneumoniae									
Tetracycline	≤2	4	≥8	≥23	19- 22	≤18	-	-	-
Vibrio cholerae					-				
Doxycycline	≤4	8	≥16	-	-	-	-	-	-
Tetracycline	≤4	8	≥16	-	-	-	-	-	-
Yersinia pestis					1	1		1	
Doxycycline	≤4	8	≥16	-	-	-	-	-	-
Tetracycline	≤4	8	≥16	-	-	-	-	-	-
Ureaplasma urealyticum					1	1		1	
Tetracycline	-	-	-	-	-	-	≤1	-	≥2

* Organisms susceptible to tetracycline are also considered susceptible to doxycycline. However, some organisms that are intermediate or resistant to tetracycline may be susceptible to doxycycline.

[†] The current absence of resistance isolates precludes defining any results other than "Susceptible". If isolates yielding MIC results other than susceptible, they should be submitted to a reference laboratory for further testing.

 \ddagger Gonococci with 30 mcg tetracycline disk zone diameters of less than 19 mm usually indicate a plasmid-mediated tetracycline resistant *Neisseria gonorrhoeae* isolate. Resistance in these strains should be confirmed by a dilution test (MIC \ge 16 mcg per mL).

A report of *Susceptible* (S) indicates that the antimicrobial is likely to inhibit growth of the pathogen if the antimicrobial compound reaches the concentrations at the infection site necessary to inhibit growth of the pathogen. A report of *Intermediate* (I) indicates that the result should be considered equivocal, and, if the bacteria 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 that prevents small uncontrolled technical factors from causing major discrepancies in interpretation. A report of *Resistant* (R) 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.

Quality Control

Standardized susceptibility test procedures require the use of laboratory controls to monitor and ensure the accuracy and precision of the supplies and reagents used in the assay, and the techniques of the individuals performing the test.^{1,2,3,4,5,6,7}

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Standard doxycycline and tetracycline powders should provide the following range of MIC values noted in Table 2. For the diffusion technique using the 30 mcg doxycycline disk the criteria noted in **Table 2** should be achieved.

Table 2: Acceptable Quality Control Ranges for Susceptibility Testing for Doxycycline and Tetracycline			
QC Strain	Minimal Inhibitory Concentration (mcg per mL)	Diameter (mm)	Agar Dilution (mcg per mL)
Enterococcus faecalis ATCC 29212			
Doxycycline	2-8	-	-
Tetracycline	8-32	-	-
Escherichia coli ATCC 25922			
Doxycycline	0.5-2	18-24	-
Tetracycline	0.5-2	18-25	-
Haemophilus influenzae ATCC 49247			
Tetracycline	4-32	14-22	-
Neisseria gonorrhoeae ATCC 49226			
Tetracycline	-	30-42	0.25-1
Staphylococcus aureus ATCC 25923			

Doxycycline	-	23-29	-
Tetracycline	-	24-30	-
Staphylococcus aureus ATCC 29213			
Doxycycline	0.12-0.5	-	-
Tetracycline	0.12-1	-	-
Streptococcus pneumoniae ATCC 49619			
Doxycycline	0.015-0.12	25-34	-
Tetracycline	0.06-0.5	27-31	-
Bacteroides fragilis ATCC 25285			
Tetracycline	-	-	0.125- 0.5
Bacteroides thetaiotaomicron ATCC 29741			
Tetracycline	-	-	8-32
Mycoplasma pneumoniae ATCC 29342			
Tetracycline	0.06-0.5	-	0.06- 0.5
Ureaplasma urealyticum ATCC 33175			
Tetracycline	-	-	≥8

IINDICATIONS AND USAGE

To reduce the development of drug-resistant bacteria and maintain effectiveness of doxycycline tablets and other antibacterial drugs, doxycycline 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 modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

Doxycycline is indicated for the treatment of the following infections:

Rocky mountain spotted fever, typhus fever and the typhus group, Q fever, rickettsialpox, and tick fevers caused by *Rickettsiae*.

Respiratory tract infections caused by *Mycoplasma pneumoniae*.

Lymphogranuloma venereum caused by *Chlamydia trachomatis*.

Psittacosis (ornithosis) caused by *Chlamydophila psittaci*.

Trachoma caused by Chlamydia trachomatis, although the infectious agent is not always eliminated as judged by immunofluorescence.

Inclusion conjunctivitis caused by *Chlamydia trachomatis*.

Uncomplicated urethral, endocervical or rectal infections in adults caused by *Chlamydia trachomatis*. Nongonococcal urethritis caused by *Ureaplasma urealyticum*.

Relapsing fever due to Borrelia recurrentis.

Doxycycline is also indicated for the treatment of infections caused by the following gram-negative microorganisms:

Chancroid caused by *Haemophilus ducreyi*.

Plague due to Yersinia pestis.

Tularemia due to *Francisella tularensis*.

Cholera caused by *Vibrio cholerae*.

Campylobacter fetus infections caused by *Campylobacter fetus*.

Brucellosis due to *Brucella* species (in conjunction with streptomycin).

Bartonellosis due to Bartonella bacilliformis.

Granuloma inguinale caused by *Calymmatobacterium granulomatis*.

Because many strains of the following groups of microorganisms have been shown to be resistant to doxycycline, culture and susceptibility testing are recommended.

Doxycycline is indicated for treatment of infections caused by the following gram-negative microorganisms, when bacteriologic testing indicates appropriate susceptibility to the drug: *Escherichia coli*

Enterobacter aerogenes

Shigella species

Acinetobacter species

Respiratory tract infections caused by *Haemophilus influenzae*.

Respiratory tract and urinary tract infections caused by *Klebsiella* species.

Doxycycline is indicated for treatment of infections caused by the following gram-positive microorganisms when bacteriologic testing indicates appropriate susceptibility to the drug: Upper respiratory infections caused by *Streptococcus pneumoniae*.

Anthrax due to *Bacillus anthracis*, including inhalational anthrax (post-exposure): to reduce the incidence or progression of disease following exposure to aerosolized *Bacillus anthracis*.

When penicillin is contraindicated, doxycycline is an alternative drug in the treatment of the following infections:

Uncomplicated gonorrhea caused by *Neisseria gonorrhoeae*.

Syphilis caused by Treponema pallidum.

Yaws caused by *Treponema pertenue*.

Listeriosis due to *Listeria monocytogenes*.

Vincent's infection caused by Fusobacterium fusiforme.

Actinomycosis caused by Actinomyces israelii.

Infections caused by *Clostridium* species.

In acute intestinal amebiasis, doxycycline may be a useful adjunct to amebicides.

In severe acne, doxycycline may be useful adjunctive therapy.

CONTRAINDICATIONS

This drug is contraindicated in persons who have shown hypersensitivity to any of the tetracyclines.

WARNINGS

THE USE OF DRUGS OF THE TETRACYCLINE CLASS DURING TOOTH DEVELOPMENT (LAST HALF OF PREGNANCY, INFANCY, AND CHILDHOOD TO THE AGE OF 8 YEARS) MAY CAUSE PERMANENT DISCOLORATION OF THE TEETH (YELLOW-GRAY-BROWN). This adverse reaction is more common during long-term use of the drugs but has been observed following repeated short-term courses. Enamel hypoplasia has also been reported. TETRACYCLINE DRUGS, THEREFORE, SHOULD NOT BE USED IN THIS AGE GROUP, EXCEPT FOR ANTHRAX, INCLUDING INHALATIONAL ANTHRAX (POST-EXPOSURE), UNLESS OTHER DRUGS ARE NOT LIKELY TO BE EFFECTIVE OR ARE CONTRAINDICATED.

Clostridium difficile associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including doxycycline 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. Hypertoxin producing strains of *C. difficile* cause increased morbidity and mortality, as these infections can be refractory to antimicrobial therapy and may require collectomy. 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 discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibiotic treatment of *C. difficile*, and surgical evaluation should be instituted as clinically indicated.

All tetracyclines form a stable calcium complex in any bone-forming tissue. A decrease in the fibula growth rate has been observed in prematures given oral tetracycline in doses of 25 mg/kg every six hours. This reaction was shown to be reversible when the drug was discontinued.

Results of animal studies indicate that tetracyclines cross the placenta, are found in fetal tissues, and can have toxic effects on the developing fetus (often related to retardation of skeletal development). Evidence of embryo toxicity has been noted in animals treated early in pregnancy. If any tetracycline is used during pregnancy or if the patient becomes pregnant while taking these drugs, the patient should be apprised of the potential hazard to the fetus.

The antianabolic action of the tetracyclines may cause an increase in BUN. Studies to date indicate that this does not occur with the use of doxycycline in patients with impaired renal function.

Photosensitivity manifested by an exaggerated sunburn reaction has been observed in some individuals taking tetracyclines. Patients apt to be exposed to direct sunlight or ultraviolet light should be advised that this reaction can occur with tetracycline drugs, and treatment should be discontinued at the first evidence of skin erythema.

PRECAUTIONS

General:

As with other antibacterial preparations, use of this drug may result in overgrowth of non-susceptible organisms, including fungi. If superinfection occurs, doxycycline tablets should be discontinued and appropriate therapy instituted.

Intracranial hypertension (IH, pseudotumor cerebri) has been associated with the use of tetracyclines including doxycycline tablets. Clinical manifestations of IH include headache, blurred vision, diplopia, and vision loss; papilledema can be found on fundoscopy. Women of childbearing age who are overweight or have a history of IH are at greater risk for developing tetracycline associated IH. Concomitant use of isotretinoin and doxycycline tablets should be avoided because isotretinoin is also known to cause pseudotumor cerebri.

Although IH typically resolves after discontinuation of treatment, the possibility for permanent visual loss exists. If visual disturbance occurs during treatment, prompt ophthalmologic evaluation is warranted. Since intracranial pressure can remain elevated for weeks after drug cessation patients should be monitored until they stabilize.

Incision and drainage or other surgical procedures should be performed in conjunction with antibacterial therapy when indicated.

Prescribing doxycycline tablets in the absence of 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.

Information for Patients:

All patients taking doxycycline should be advised:

-to avoid excessive sunlight or artificial ultraviolet light while receiving doxycycline and to discontinue therapy if phototoxicity (e.g., skin eruptions, etc.) occurs. Sunscreen or sunblock should be considered. (See **WARNINGS**.)

-to drink fluids liberally along with doxycycline to reduce the risk of esophageal irritation and ulceration. (See **ADVERSE REACTIONS**.)

-that the absorption of tetracyclines is reduced when taken with foods, especially those which contain

calcium. However, the absorption of doxycycline is not markedly influenced by simultaneous ingestion of food or milk. (See **Drug Interactions**.)

-that the absorption of tetracyclines is reduced when taking bismuth subsalicylate. (See **Drug Interactions**.)

-not to use outdated or poorly stored doxycycline.

-that the use of doxycycline might increase the incidence of vaginal candidiasis.

Diarrhea 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 and bloody stools (with or without stomach cramps and fever) even as late as two or more months after having taken the last dose of the antibiotic. If this occurs, patients should contact their physician as soon as possible.

Patients should be counseled that antibacterial drugs including doxycycline tablets should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When doxycycline tablets are prescribed to treat a bacterial infection, patients should be told that although it is common to feel better early in the 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 immediate treatment and (2) increase the likelihood that bacteria will develop resistance and will not be treatable by doxycycline tablets or other antibacterial drugs in the future.

Laboratory Tests:

In venereal disease when coexistent syphilis is suspected, a dark-field examination should be done before treatment is started and the blood serology repeated monthly for at least four months.

In long-term therapy, periodic laboratory evaluations of organ systems, including hematopoietic, renal, and hepatic studies should be performed.

Drug Interactions:

Because tetracyclines have been shown to depress plasma prothrombin activity, patients who are on anticoagulant therapy may require downward adjustment of their anticoagulant dosage.

Since bacteriostatic drugs may interfere with the bactericidal action of penicillin, it is advisable to avoid giving tetracyclines in conjunction with penicillin.

Absorption of tetracyclines is impaired by antacids containing aluminum, calcium, or magnesium, and iron-containing preparations.

Barbiturates, carbamazepine, and phenytoin decrease the half-life of doxycycline.

The concurrent use of tetracycline and methoxyflurane has been reported to result in fatal renal toxicity.

Concurrent use of tetracycline may render oral contraceptives less effective.

Drug/Laboratory Test Interactions:

False elevations of urinary catecholamine levels may occur due to interference with the fluorescence test.

Carcinogenesis, Mutagenesis, Impairment of Fertility:

Long-term studies in animals to evaluate the carcinogenic potential of doxycycline have not been conducted. However, there has been evidence of oncogenic activity in rats in studies with related antibacterial, oxytetracycline (adrenal and pituitary tumors) and minocycline (thyroid tumors). Likewise, although mutagenicity studies of doxycycline have not been conducted, positive results in *lin vitro* mammalian cell assays have been reported for related antibacterial (tetracycline, oxytetracycline). Doxycycline administered orally at dosage levels as high as 250 mg/kg/day had no apparent effect on the fertility of female rats. Effect on male fertility has not been studied.

Pregnancy:

Teratogenic Effects.

Pregnancy Category D:

There are no adequate and well-controlled studies on the use of doxycycline in pregnant short-term, first trimester exposure. There are no human data available to assess the effects of long-term therapy of doxycycline in pregnant women such as that proposed for treatment of anthrax exposure. An expert review of published data on experiences with doxycycline use during pregnancy by TERIS – the Teratogen Information System - concluded that therapeutic doses during pregnancy are unlikely to pose a substantial teratogenic risk (the quantity and quality of data were assessed as limited to fair), but the data are insufficient to state that there is no risk.⁸

A case-control study (18,515 mothers of infants with congenital anomalies and 32,804 mothers of infants with no congenital anomalies) shows a weak but marginally statistically significant association with total malformations and use of doxycycline anytime during pregnancy. (Sixty-three [0.19%] of the controls and 56 [0.30%] of the cases were treated with doxycycline.) This association was not seen when the analysis was confined to maternal treatment during the period of organogenesis (i.e., in the second and third months of gestation) with the exception of a marginal relationship with neural tube defect based on only two exposed cases.⁹

A small prospective study of 81 pregnancies describes 43 pregnant women treated for 10 days with doxycycline during early first trimester. All mothers reported their exposed infants were normal at 1 year of age.¹⁰

Labor and Delivery:

The effect of tetracyclines on labor and delivery is unknown.

Nursing Mothers:

DTetracyclines are excreted in human milk, however, the extent of absorption of tetracyclines, including doxycycline, by the breastfed infant is not known. Short-term use by lactating women is not necessarily contraindicated; however, the effects of prolonged exposure to doxycycline in breast milk are unknown.11 Because of the potential for adverse reactions in nursing infants from doxycycline, 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. (See **WARNINGS**.)

Pediatric Use:

See **WARNINGS** and **DOSAGE AND ADMINISTRATION** sections.

ADVERSE REACTIONS

Due to oral doxycycline's virtually complete absorption, side effects to the lower bowel, particularly diarrhea, have been infrequent. The following adverse reactions have been observed in patients receiving tetracyclines.

Gas trointes tinal: Anorexia, nausea, vomiting, diarrhea, glossitis, dysphagia, enterocolitis, and inflammatory lesions (with monilial overgrowth) in the anogenital region. Hepatotoxicity has been reported. These reactions have been caused by both the oral and parenteral administration of tetracyclines. Rare instances of esophagitis and esophageal ulcerations have been reported in patients receiving capsule and tablet forms of drugs in the tetracycline class. Most of these patients took medications immediately before going to bed. (See **DOSAGE AND ADMINISTRATION**.)

Skin: Maculopapular and erythematous rashes, Stevens-Johnson syndrome, toxic epidermal necrolysis, and erythema multiforme have been reported. Exfoliative dermatitis has been reported but is uncommon. Photosensitivity is discussed above. (See **WARNINGS**.)

Renal Toxicity: Rise in BUN has been reported and is apparently dose related. (See **WARNINGS**.)

Hypersensitivity Reactions: Urticaria, angioneurotic edema, anaphylaxis, anaphylactoid purpura, serum sickness, pericarditis, and exacerbation of systemic lupus erythematosus.

Blood: Hemolytic anemia, thrombocytopenia, neutropenia, and eosinophilia have been reported with tetracyclines.

Other: Intracranial hypertension (IH, pseudotumor cerebri) has been associated with the use of tetracyclines. (See **PRECAUTIONS – Genera**l.)

When given over prolonged periods, tetracyclines have been reported to produce brown-black microscopic discoloration of the thyroid gland. No abnormalities of thyroid function are known to occur.

OVERDOSAGE

In case of overdosage, discontinue medication, treat symptomatically and institute supportive measures. Dialysis does not alter serum half-life, and it would not be of benefit in treating cases of overdosage.

DOSAGE AND ADMINISTRATION

THE USUAL DOSAGE AND FREQUENCY OF ADMINISTRATION OF DOXYCYCLINE DIFFERS FROM THAT OF THE OTHER TETRACYCLINES. EXCEEDING THE RECOMMENDED DOSAGE MAY RESULT IN AN INCREASED INCIDENCE OF SIDE EFFECTS.

Adults: The usual dose of oral doxycycline is 200 mg on the first day of treatment (administered 100 mg every 12 hours or 50 mg every 6 hours) followed by a maintenance dose of 100 mg/day. The maintenance dose may be administered as a single dose or as 50 mg every 12 hours. In the management of more severe infections (particularly chronic infections of the urinary tract), 100 mg every 12 hours is recommended.

For pediatric patients above eight years of age: The recommended dosage schedule for pediatric patients weighing 100 pounds or less is 2 mg/lb of body weight divided into two doses on the first day of treatment, followed by 1 mg/lb of body weight given as a single daily dose or divided into two doses, on subsequent days. For more severe infections up to 2 mg/lb of body weight may be used. For pediatric patients over 100 pounds the usual adult dose should be used.

Uncomplicated gonococcal infections in adults (except anorectal infections in men): 100 mg, by mouth, twice a day for 7 days. As an alternate single visit dose, administer 300 mg stat followed in one hour by a second 300 mg dose.

Acute epididymo-orchitis caused by *N. gonorrhoeae*: 100 mg, by mouth, twice a day for at least 10 days.

Primary and secondary syphilis: 300 mg a day in divided doses for at least 10 days.

Uncomplicated urethral, endocervical, or rectal infection in adults caused by *Chlamydia trachomatis*: 100 mg, by mouth, twice a day for at least 7 days.

Nongonococcal urethritis caused by *C. trachomatis* and *U. urealyticum*: 100 mg, by mouth, twice a day for at least 7 days.

Acute epididymo-orchitis caused by *C. trachomatis*: 100 mg, by mouth, twice a day for at least 10 days.

Inhalational anthrax (post-exposure):

ADULTS: 100 mg of doxycycline, by mouth, twice a day for 60 days. CHILDREN: weighing less than 100 pounds (45 kg); 1 mg/lb (2.2 mg/kg) of body weight, by mouth, twice a day for 60 days. Children weighing 100 pounds or more should receive the adult dose. When used in streptococcal infections, therapy should be continued for 10 days.

Administration of adequate amounts of fluid along with capsule and tablet forms of drugs in the tetracycline class is recommended to wash down the drugs and reduce the risk of esophageal irritation and ulceration. (See **ADVERSE REACTIONS**.) If gastric irritation occurs, doxycycline may be given with food. Ingestion of a high fat meal has been shown to delay the time to peak plasma concentrations by an average of one hour and 20 minutes. However, in the same study, food enhanced the average peak concentration by 7.5% and the area under the curve by 5.7%.

HOW SUPPLIED

Doxycycline Tablets, USP 100 mg are yellow, film coated, caplets, debossed LCI on one face and 1338 on the other face. Each tablet contains doxycycline monohydrate equivalent to 100 mg of doxycycline.

They are supplied as follows:

Bottles of 30 NDC 42783-601-30

Bottles of 60 NDC 42783-601-60

Dispense in a tight light-resistant container with a child-resistant closure.

Store at 20° to 25°C (68° to 77°F)[see USP Controlled Room Temperature].

PROTECT FROM LIGHT.

ANIMAL PHARMACOLOGY AND ANIMAL TOXICOLOGY

Hyperpigmentation of the thyroid has been produced by members of the tetracycline class in the following species: in rats by oxytetracycline, doxycycline, tetracycline PO₄, and methacycline; in minipigs by doxycycline, minocycline, tetracycline PO₄, and methacycline; in dogs by doxycycline and minocycline; in monkeys by minocycline.

Minocycline, tetracycline PO₄, methacycline, doxycycline, tetracycline base, oxytetracycline HCl and tetracycline HCl were goitrogenic in rats fed a low iodine diet. This goitrogenic effect was accompanied by high radioactive iodine uptake. Administration of minocycline also produced a large goiter with high radioiodine uptake in rats fed a relatively high iodine diet.

Treatment of various animal species with this class of drugs has also resulted in the induction of thyroid hyperplasia in the following: in rats and dogs (minocycline), in chickens (chlortetracycline) and in rats and mice (oxytetracycline). Adrenal gland hyperplasia has been observed in goats and rats treated with oxytetracycline.

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Manufactured For: Elorac, Inc. Vernon Hills, IL 60061 Made in the USA

Revised: 08/14, Revision 2

10-303

DOXYCYCLINE TABLETS, USP

Rx Only

Advanced Acne Wash (4.4% benzoyl peroxide extended release)

Continous Action for Lasting Results

Dermatologist Developed

3.5 FL OZ (104ml)

Drug Facts

Active Ingredient

Benzoyl peroxide 4.4%

Purpose

Acne treatment

Uses

Treats and helps prevent acne

Warnings

For external use only

Do not use if you

have very sensitive skin are sensitive to benzoyl peroxide

When using this product

Avoid unnecessary sun exposure and use a sunscreen

Avoid contact with eyes, lips, and mouth

Avoid contact with hair and dyed fabrics, which may be bleached by this product

Skin irritation may occur, characterized by redness, burning, itching, peeling, or possibly swelling. Irritation may be reduced by using the product less frequently.

Skin irritation and dryness is more likely to occur if you use another topical acne medication at the same time. If irritation occurs, only use one topical acne medication at a time.

Stop use and ask a doctor if

irritation becomes severe

Keep out of reach of children

If swallowed, get medical help or contact a Poison Control Center immediately.

Directions

Wet face

Apply to hands then work into a lather and massage gently onto face

Rinse thoroughly and pat dry

Because excessive drying of the skin may occur, start with one application daily, then increase to 2 times daily if needed or as directed by a doctor

If bothersome dryness or peeling occurs, reduce usage to once a day or every other day

If going outside, apply sunscreen after using this product.

If irritation or sensitivity develops, stop use of both products and ask a doctor.

Other information

THIS PRODUCT MAY BLEACH HAIR OR DYED FABRICS

KEEP TIGHTLY CLOSED

Avoid storing at temperatures above 100°F (38°C)

Inactive ingredients

Butyrospermum Parkii (Shea) Butter, C13-14 Isoparaffin, Cocamidopropyl Betaine, Ethylhexylglycerin, Euphorbia Cerifera (Candelilla) Wax, Hydroxyethyl Behenamidopropyl Dimonium Chloride, Laureth-7, Phenoxyethanol, Polyacrylamide, Water

Questions?

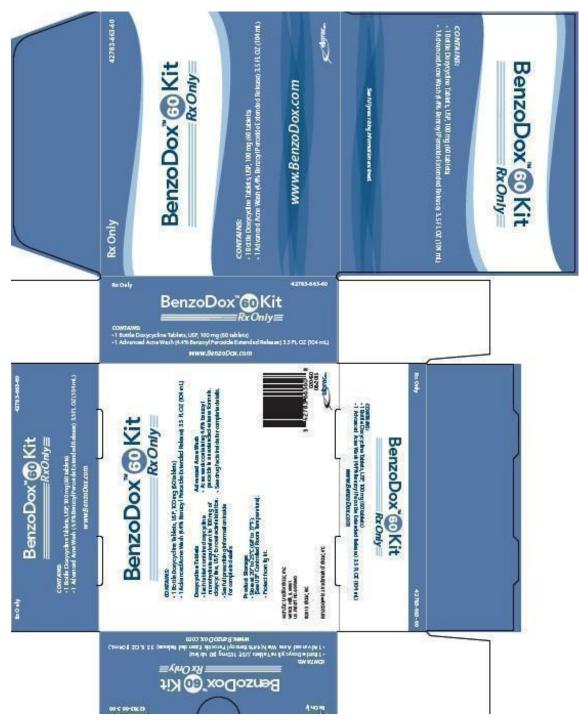
1-847-362-8200 MON - FRI 9 AM - 5 PM (CST)

Advanced Acne Wash

Extended - release action for lasting results Kills bacteria that cause acne Gentle formula Manufactured for Elorac, Inc. Vernon Hills, IL 60061 U.S. Patent No. 6979440 022004-2 07/2015 ©2015 Elorac, Inc. NDC 42783-635-04 Elorac, Inc. Advanced Acne Wash

PRINCIPAL DISPLAY PANEL

NDC 42783-663-60 BenzoDox 60 Kit Rx Only Manufactured for: Elorac, Inc. Vernon Hills, IL 60061 U.S. Patent No. 6979440 © Elorac, Inc. BenzoDox[™] is a trademark of Elorac, Inc. 020430 08/2015



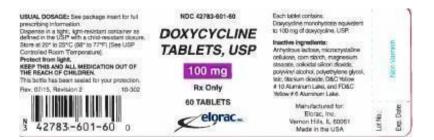
NDC 42783-601-60

DOXYCYCLINE TABLETS, USP 100 mg Rx Only

60 TABLETS

Manufactured for: Elorac, Inc. Vernon Hills, IL 60061

Rev.07/15, Revision 2 10-302



NDC 42783-635-04

Advanced Acne Wash (4.4% Benzoyl Peroxide Extended Release)

Manufactured for Elorac, Inc.

Vernon Hills, IL 60061

U.S. Patent No. 6979440

022004-2 07/2015 © Elorac, Inc.



Item Code

Package Description

Marketing Start Date

Marketing End Date

Quantity of Parts						
-	Package Qua	antity		Total Product (Ouantity	
Part 1 1 BOTTLE	r uchuge Qui		60	1 otur 1 i otur i i o	Quantity	
Part 2 1 TUBE			104 mL			
Part 1 of 2						
DOXYCYCLIN	IE					
doxycycline tablet, fi	ilm coated					
Product Informati	ion					
Item Code (Source)		NDC:42783-601				
Route of Administrat	ion	ORAL				
Active Ingredient/	Active Moi	ety				
Active Ingredient/				Basis	of Strength	Strengt
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Labeler - Elorac, Inc. (832590009)

Revised: 10/2015

Elorac, Inc.