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Dr. Reddy's Laboratories, Ltd., et al. v. Galderma Laboratories, Inc. IPR2015-

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#### 2082/OCLASSEN

#### MONODOX® DOXYCYCLINE MONOHYDBATE CAPSULES [mon 'o-dox ]

#### DESCRIPTION

Doxycycline is a broad-spectrum antibiotic synthetically derived from oxytetracycline. Monodox® 100 mg and 50 mg capsules contain doxycycline monohydrate equivalent to 100 mg or 50 mg of doxycycline for oral administration. The al designation of the light-yellow crystalline powder is alpha-6-deoxy-5-oxytetracycline, Structural formula:



 $C_{22}H_{24}N_2O_8 \cdot H_2O$ M.W.=462.46 Doxycycline has a high degree of lipid solubility and a low affinity for calcium binding. It is highly stable in normal hu-man serum. Doxycycline will not degrade into an epianhydro form.

Inert Ingredients: colloidal silicon dioxide; hard gelatin capsule; magnesium stearate; microcrystalline cellulose; and sodium starch glycolate.

#### 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: [See table below]

#### Average Observed Values

Maximum Concentration  $3.61 \text{ mcg/mL} (\pm 0.9 \text{ sd})$ Time of Maximum 2.60 hr (± 1.10 sd) Concentration Elimination Rate Constant  $0.049 \text{ per hr} (\pm 0.030 \text{ sd})$ 

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 verely impaired renal function.

Hemodialysis does not alter serum half-life.

Microbiology: The tetracyclines are primarily bacterio-static and are thought to exert their antimicrobial effect by the inhibition of protein synthesis. The tetracyclines, including doxycycline, have a similar antimicrobial spectrum of activity against a wide range of gram-positive and gram-negative organisms. Cross-resistance of these organisms to tetracyclines is common.

While in vitro studies have demonstrated the susceptibility of most strains of the following microorganisms, clinical ef-ficacy for infections other than those included in the INDI-CATIONS AND USAGE section has not been documented. GRAM-NEGATIVE BACTERIA:

- Neisseria gonorrhoeae
  Haemophilus ducreyi
- Haemophilus influenza

Yersinia pestis (formerly Pasteurella pestis)
Francisella tularensis (formerly Pasteurella tularensis) Vibrio cholerae (formerly Vibrio comma)

Bartonella bacilliformis

Brucella species

Because many strains of the following groups of gram-negtetracyclines, culture and susceptibility testing are recom-mended: ative microorganisms have been shown to be resistant to

- Escherichia coli
- Klebsiella species
- Enterobacter aerogenes

Shigella species
Acinetobacter species (formerly Mima species and Herellea species)

Bacteroides specie

DOCKE.

GRAM-POSITIVE BACTERIA:

Because many strains of the following groups of gram-positive microorganisms have been shown to be resistant to tetracyclines, culture and susceptibility testing are recom mended. Up to 44 percent of strains of Streptococcus pyog-enes and 74 percent of Streptococcus faecalis have been found to be resistant to tetracycline drugs. Therefore, tetracyclines should not be used to treat streptococcal infections unless the organism has been demonstrated to be susceptible.

- Ŗ • Streptococcus pyogenes
  - Streptococcus pneumoniae
     Enterococcus group (Streptococcus faecalis and Streptococcus
  - cus faecium)

 Alpha-hemolytic streptococci (viridans group) OTHER MICROORGANISMS

- Chlamydia psittaci
- Chlamydia trachomatis
- Ureaplasma urealyticum
  Borrelia recurrentis
- Treponema pallidum
- Treponema pertenue
- Clostridium species
- Fusobacterium fusiforme Actinomyces species
- Bacillus anthracis
- Provionibacterium acnes
- Entamoeba species Balantidium coli

Susceptibility tests: Diffusion Techniques: Quantitative methods that require measurement of zone diameters give the most precise estimate of the susceptibility of bacteria to antimicrobial agents.

One such standard procedure<sup>1</sup> which has been recommended for use with disks to test susceptibility of organisms to doxycycline uses the 30-mcg tetracycline-class disk or the 30-mcg doxycycline disk. Interpretation involves the correof the diameter obtained in the disk test with the lation minimum inhibitory concentration (MIC) for tetracycline or

Minimum minimum concernation (whe) for test acycline of doxycycline, respectively. Reports from the laboratory giving results of the standard single-disk susceptibility test with a 30-mcg tetracycline-class disk or the 30-mcg doxycycline disk should be inter-preted according to the following criteria.

Zone Diam	Interpretation			
tetracycline	doxycycline			
≥19	≥16	Susceptible		
15-18	13-15	Intermediate		
≤14	≤12	Resistant		

A report of "susceptible" indicates that the pathogen is likely to be inhibited by generally achievable blood levels. A report of "intermediate" suggests that the organism would report or intermediate suggests that the organism would be susceptible if a high dosage is used or if the infection is confined to tissues and fluids in which high antimicrobial levels are attained. A report of "resistant" indicates that achievable concentrations are unlikely to be inhibitory, and other therapy should be selected.

Standardized procedures require the use of laboratory cor trol organisms. The 30-mcg tetracycline-class disk or the 30 mcg doxycycline disk should give the following zone diam-

Organism	Zone Diameter					
	tetracycline	doxycycline				
E. coli ATCC 25922	18-25	18-24				
S. aureus ATCC 25923	19-28	23–29				

#### Dilution Techniques:

Use a standardized dilution method<sup>2</sup> (broth, agar, microdi-lution) or equivalent with tetracycline powder. The MIC values obtained should be interpreted according to the follow ing criteria:

MIC (mcg/mL)	Interpretation
≤4	Susceptible
. 8	Intermediate
. ≥16	Resistant

As with standard diffusion techniques, dilution methods require the use of laboratory control organisms. Standard tet-racycline powder should provide the following MIC values:

Organism	MIC (mcg/mL)
S. aureus ATCC 29213	0.25 - 1
E. faecalis ATCC 29212	8-32
E. coli ATCC 25922	1-4
P. aeruginosa ATCC 27853	8-32
1	

#### INDICATIONS AND USAGE

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 pneu

Lymphogranuloma venereum caused by Chlamydia tracho matis

Psittacosis (omithosis) caused by Chlamydia psittaci. Trachoma caused by Chlamvdia trachomatis, although the infectious agent is not always eliminated as judged by im-

munofluorescence. Inclusion conjunctivitis caused by Chlamydia trachomatis.

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

lyticum. Poloneing fever due to Borrelia recurrentis

Time (hr):	0.5	1.0	1.5	2.0	3.0	4.0	8.0	12.0	24.0	48.0	72.0
Conc.	1.02	2.26	2.67	3.01	3.16	3.03	2.03	1.62	0.95	0.37	0.15

## PHYSICIANS' DESK REFERENCER

RODUCT INFORMATI

cision and drainage or othe

he performed in conjunction

aboratory tests: In vener

syphilis is suspected, a dark

done before treatment is star

ated monthly for at least fo

In long-term therapy, periodic

gan systems, including hem:

tudies should be performed.

Drug interactions: Because

to depress plasma prothrombi

anticoagulant therapy may 1

of their anticoagulant dosage

Since bacteriostatic drugs ma

dal action of penicillin, it is a

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Absorption of tetracyclines is

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Concurrent use of tetracycli

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Carcinogenesis, mutagenesis

term studies in animals to ev

tial of doxycycline have not h

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with related antibiotics, oxy

tary tumors) and minocyclin

although mutagenicity studi conducted, positive results i says have been reported for 1

oxytetracycline). Doxycycline

levels as high as 250 mg/kg

the fertility of female rats.

been studied. Pregnancy: Pregnancy Cat

Labor and Delivery: The e

Nursing mothers: Tetracyc

lactating women who are to cause of the potential for set

ing infants from the tetra

made whether to discontin

drug, taking into account th mother. (See WARNINGS).

Pediatric Use: See WARN

MINISTRATION sections.

ADVERSE REACTIONS

Due to oral doxycycline's vir

effects to the lower bowel, r

infrequent. The following a

served in patients receiving

Gastrointestinal: Anorexi

glossitis, dysphagia, entero

(with monifial overgrowth)

reactions have been caused administration of tetracycli tis and esophageal ulcerat tients receiving capsule and racycline class. Most of the

ADMINISTRATION).

Skin: Maculopapular and tive dermatitis has been re

sensitivity is discussed abo

Renal toxicity: Rise in BL parently dose related. (See

Hypersensitivity reactions

ma, anaphylaxis, anaphyle

exacerbation of systemic lu

Blood: Hemolytic anemia.

and eosinophilia have been

Other: Bulging fontanels

pertension in adults. (See ]

When given over prolonged

reported to produce brown of the thyroid gland. No a

In case of overdosage, disc

tomatically and institute

does not alter serum half-l

in treating cases of overdo

DOSAGE AND ADMINIS

THE USUAL DOSAGE AT

RATION OF DOXYCYCI

THE OTHER TETRACYC OMMENDED DOSAGE

CREASED INCIDENCE ( Adults: The usual dose of first day of treatment (adn

are known to occur.

OVERDOSAGE

and

and delivery is unknown.

half-life of doxycycline.

tives less effective.

dicated.

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 (formerly Pasteurella pestis). Tularemia due to Francisella tularensis (formerly Paster). rella tularensis).

Cholera caused by Vibrio cholerae (formerly Vibrio comn Campylobacter fetus infections caused by Campylobacter fe

merly Vibrio fetus). Brucellosis due to Brucella species (in conjunction with

streptomycin).

Bartonellosis due to Bartonella bacilliformis

Granuloma inguinale caused by Calymmatobacterium gran. ulomatis. Because many strains of the following groups of microor

ganisms have been shown to be resistant to doxycycline, culgamsms have been shown to be resistant to taxyycline, cul-ture and susceptibility testing are recommended. Doxycycline is indicated for treatment of infections caused

by the following gram-negative microorganisms, when bacriologic testing indicates appropriate susceptibility to the drug: Escherichia coli

Enterobacter aerogenes (formerly Aerobacter aerogenes) Shigella species

Acinetobacter species (formerly Mima species and Herellea species)

Respiratory tract infections caused by Haemophilus in

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 bacte riologic testing indicates appropriate susceptibility to the drug:

Upper respiratory infections caused by Streptococcus pneu moniae (formerly Diplococcus pneumoniae). Skin and skin structure infections caused by Staphylococcus

aureus. Doxycycline is not the drug of choice in the treatment of any type of staphylococcal infections.

When penicillin is contraindicated, doxycycline is an alterdrug in the treatment of the following infection native Uncomplicated gonorrhea caused by Neisseria gonorrhoeae. Syphilis caused by Treponema pallidum. Yaws caused by Treponema pertenue. Listeriosis due to Listeria monocytogenes.

Anthrax due to Bacillus anthracis

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

General:

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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 DISCOL-ORATION 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 shortterm courses. Enamel hypoplasia has also been reported. TETRACYCLINE DRUGS, THEREFORE, SHOULD NOT BE USED IN THIS AGE GROUP UNLESS OTHER DRUGS ARE NOT LIKELY TO BE EFFECTIVE OR ARE CONTRAINDICATED.

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 pated in primet to the tart and the state of the 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 re action has been observed in some individuals taking tetra cyclines. 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

As with other antibiotic preparations, use of this drug may

result in overgrowth of non-susceptible organisms, includ-ing fungi. If superinfection occurs, the antibiotic should be

ing tetracyclines. These conditions disappeared when the

discontinued and appropriate therapy instituted. Bulging fontanels in infants and benign intracranial hyper-tension in adults have been reported in individuals receiv-

#### ANS' DESK REFERENCE®

ed for the treatment of infections am-negative microorganisms: nophilus ducreyi. stis (formerly Pasteurella pestis). ella tularensis (formerly Pasteu-

:holerae (formerly Vibrio comma). tions caused by Campylobacter fe.

lla species (in conjunction with

nella bacilliformis. ed by Calymmatobacterium gran.

the following groups of microorto be resistant to doxycycline, culting are recommended. or treatment of infections caused ative microorganisms, when bac-appropriate susceptibility to the

rmerly Aerobacter aerogenes)

nerly Mima species and Herellea

ons caused by Haemophilus in-

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r treatment of infections caused tive microorganisms when bacte appropriate susceptibility to the

ns caused by Streptococcus nneu cus pneumoniae ). ections caused by Staphylococcus the drug of choice in the treat-rlococcal infections. adicated, doxycycline is an alternt of the following infections: caused by Neisseria gonorrhoeae.

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eparations, use of this drug may n-susceptible organisms, includ-occurs, the antibiotic should be ite therapy instituted. s and benign intracranial hyper-n reported in individuals receivinditions disappeared when the

PRODUCT INFORMATION

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

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 or gan 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 uri-

nary catecholamine levels may occur due to interference with the fluorescence test.

Carcinogenesis, mutagenesis, impairment of fertility: Longterm 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 antibiotics, oxytetracycline (adrenal and pituitary tumors) and minocycline (thyroid tumors). Likewise. although mutagenicity studies of doxycycline have not been conducted, positive results in in vitro mammalian cell assays have been reported for related antibiotics (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: Pregnancy Category D. (See WARNINGS). Labor and Delivery: The effect of tetracyclines on labor and delivery is unknown.

Nursing mothers: Tetracyclines are present in the milk of lactating women who are taking a drug in this class. Because of the potential for serious adverse reactions in nursing infants from the tetracyclines, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother (See WARNINGS).

Pediatric Use: See WARNINGS and DOSAGE AND AD-MINISTRATION 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.

Gastrointestinal: Anorexia, nausea, vomiting, diarrhea, glossitis, dysphagia, enterocolitis, and inflammatory lesions (with monilial overgrowth) in the anogenital region. These reactions have been caused by both the oral and parenteral administration of tetracyclines. Rare instances of esophagi-tis and esophageal ulcerations have been reported in patients receiving capsule and tablet forms of drugs in the tetacuts receiving capsule and capter forms of mugs in the tec-racycline class. Most of these patients took medications im-mediately before going to bed. (See DOSAGE AND ADMINISTRATION).

Ability Martin and erythematous rashes. Exfolia-tive dermatitis has been reported but is uncommon. Photo-sensitivity is discussed above. (See WARNINGS.) Renal toxicity: Rise in BUN has been reported and is ap-

Parently dose related. (See WARNINGS.) Hypersensitivity reactions: Urticaria, angioneurotic ede-ma, anaphylaxis, anaphylactoid purpura, pericarditis, and

ma, anaphylaxis, anaphylactoid purpura, pericarditis, and exacerbation of systemic lupus erythematosus.
Blood: Hemolytic anemia, thrombocytopenia, neutropenia, and eosinophilia have been reported with tetracyclines.
Other: Bulging fontanels in infants and intracranial hypertension in adults. (See PRECAUTIONS-General.)
When given over prolonged periods, tetracyclines have been reported to produce brown-black microscopic discloration of the thyroid gland. No abnormalities of thyroid function for known.

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 <sup>in treating</sup> cases of overdosage.

## DOSAGE AND ADMINISTRATION

THE USUAL DOSAGE AND FREQUENCY OF ADMINIS-TRATION OF DOXYCYCLINE DIFFERS FROM THAT OF THE OTHER TETRACYCLINES. EXCEEDING THE REC-OMMENDED DOSAGE MAY RESULT IN AN IN-CREASED INCIDENCE OF SIDE EFFECTS.

Adults: The usual dose of oral doxycycline is 200 mg on the <sup>trat</sup> day of treatment (administered 100 mg every 12 hours) <sup>or 50</sup> 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 rec ommended 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 lbs 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. When used in streptococcal infections, therapy should be continued for 10 days.

Administration of adequate amounts of fluid along with cap-sule 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

MONODOX® 50 mg Capsules have a white opaque body with a yellow opaque cap. The capsule bears the inscription "MONODOX 50" in brown and "M 260" in brown. Each capsule contains doxycycline monohydrate equivalent to 50 mg doxycycline.

MONODOX® 50 mg is available in: Bottles of 100 capsules, NDC 55515-260-06. MONODOX® 100 mg Capsules, yellow opaque body with a brown opaque cap. The capsule bears the inscription "MONODOX 100" in white and "M 259" in brown. Each capsule contains doxycycline monohy drate equivalent to 100 mg of doxycycline. MONODOX® 100 mg is available in: Bottles of 50 capsules, NDC 55515-259-04 and in bottles of 250 capsules, NDC 55515-259-07. STORE AT CONTROLLED ROOM TEMPERATURE 15°-30°C (59°-86°F), PROTECT FROM LIGHT,

#### ANIMAL PHARMACOLOGY AND ANIMAL TOXICOL OGY

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.

#### REFERENCES:

1. National Committee for Clinical Laboratory Standards. Performance Standards for Antimicrobial Disk Susceptibility Tests, Fourth Edition. Approved Standard NCCLS Document M2-A4, Vol. 10, No. 7 NCCLS, Villanova, PA, April 1990.

2. National Committee for Clinical Laboratory Standards, National Communes in Ominaria Laboratory Journary Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically, Second Edition. Ap-proved Standard NCCLS Document MT-A2, Vol. 10, No. 8 NCCLS, Villanova, PA, April 1990.

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## (973) 325-4500

Currently available products are listed below. For complete product line information and price lists, direct inquiries to Organon Inc. Customer Service. For specific product information, contact Organon Inc. Medical Services Department.

#### ARDUAN® Ŗ (pipecuronium bromide) for injection HOW SUPPLIED 10 mL vials/10 mg-boxes of 6 vials-NDC-0052-0446-36

TICE® BCG, BCG Live R BCG VACCINE USP (for Intravesical use)

Distributed by Organon Inc. (See page 2111 complete product information.)

CALDEROL® [kal-dah 'rol] (calcifediol capsules, USP)

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#### HOW SUPPLIED

20 µg (white, soft elastic capsules) bottle of 60 50 µg (orange, soft elastic capsules) bottle of 60 Shown in Product Identification Guide, page 327

### CORTROSYN® [cör-trö-sin]

(cosyntropin) for injection FOR DIAGNOSTIC USE ONLY

#### DESCRIPTION

Cortrosyn® (cosyntropin) for injection is a sterile lyophilized powder in vials containing 0.25mg of Cortrosyn® and 10mg of mannitol to be reconstituted with 1mL sodium chloride for injection. USP as solvent, Administration is by intravenous or intramuscular injection. Cosyntropin is  $\alpha 1-24$  corticotropin, a synthetic subunit of ACTH. It is an open chain polypeptide containing, from the N terminus, the first 24 of the 39 amino acids of natural ACTH. The sequence of amino acids in the 1-24 compound is as follows:

Ser-	- Tyr -	- Ser -	- Met -	- Glu -	His	- Phe	- Arg -	— Trp -	- Gly -	-Lys .	
1.	2	3	4	5	6	7	8	9	10	11	
Pm-	Val	Gly	- Ive -	lve	- Am -	- Am	Pro -	- Val -	-1vs-	- Val	
12	- vai -	- Gily - 14	15 ·	16	17	18	19	20	21	22	
Tyr-	- Pro										

#### CLINICAL PHARMACOLOGY

23 24

Cortrosyn® (cosyntropin) for injection exhibits the full corticosteroidogenic activity of natural ACTH. Various studies have shown that the biologic activity of ACTH resides in the nave snown that the blogic activity of ACTH resides in the N-terminal portion of the molecule and that the 1-20 amino acid residue is the minimal sequence retaining full activity. Partial or complete loss of activity is noted with progressive shortening of the chain beyond 20 amino acid residue. For example, the decrement from 20 to 19 results in a 70% loss for the second secon

of potency. The pharmacologic profile of Cortrosyn® is similar to that of purified natural ACTH. It has been established that 0.25 mg of Cortrosyn® will stimulate the adrenal cortex maximally and to the same extent as 25 units of natural ACTH. This does of Cortrosyn@ will produce maximal secretion of 17-OH corticosteroids, 17-ketosteroids and/or 17-ketogenic steroids.

The extra-adrenal effects which natural ACTH and Cortrosyn® have in common include increased melanotropic ac-tivity, increased growth hormone secretion and an adipokinetic effect. These are considered to be without physiological or clinical significance.

Animal, human and synthetic ACTH (1-39) which all contain 39 amino acids exhibit similar immunologic activity.

Continued on next page

Consult 2000 PDR<sup>®</sup> supplements and future editions for revisions

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