

SCHEDULING STATUS:

S4

PROPRIETARY NAME (and dosage form):

DOXYCYCLINE BIOTECH 100 mg Tablets

COMPOSITION:

Each Tablet contains:

Doxycycline hydrate equivalent to doxycycline 100 mg.

Excipients: Microcrystalline cellulose, croscarmellose sodium, colloidal silicone dioxide, magnesium stearate, TC-530027 orange (Hypromellose, titanium dioxide, polyethylene glycol, macrogol, sunset yellow FCF aluminium lake, carnauba wax).

Sugar free

PHARMACOLOGICAL CLASSIFICATION:

A 20.1.1 Antimicrobial (chemotherapeutic) agents. Broad and medium spectrum antibiotic.

PHARMACOLOGICAL ACTION:Doxycyclines are bacteriostatic antibiotics which inhibit bacterial growth by binding to the 30S ribosomal sub unit with consequent misreading of information for protein synthesis. They are effective *in vitro* against the following organisms (*in vitro* activity does not necessarily imply *in vivo* efficacy):*Vibrio cholera, Ureaplasma urealyticum, Mycoplasma pneumonia, Chlamydia trachomatis, Chlamydia psittaci, Borrelia recurrentis, Calymmatobacterium granulomatis, Borrelia burgdorferi, penicillin-sensitive Neisseria gonorrhoeae and Rickettsiae.*Doxycyclines are also effective against the following organisms *in vitro*:*Haemophilus ducreyi, Actinomyces isrealii, Francisella tularensis, Treponema pertenue.***RESISTANT PATHOGENS:**

Many of the following strains are resistant:

Staphylococci

Enterococci

Proteus vulgaris

Fungi and yeasts (except Actinomycetes)

Pseudomonas aeruginosa (all strains)

Escherichia coli

Shigella

Streptococcus

PHARMACOKINETICS:

Doxycycline is readily and almost completely absorbed from the gastro-intestinal tract. Peak plasma concentrations occur about 2 hours after ingestion. Doxycycline is readily absorbed into body fluids and tissues.

INDICATIONS:

Infections caused by susceptible strains of pathogens:

Upper and lower respiratory tract infectionsSinusitis, pharyngitis, *Mycoplasma pneumonia*, psittacosis and chronic bronchitis.**Genito-urinary tract infections**Non-specific urethritis (only if the strain is sensitive), *Lymphogranuloma venereum*, chancroid and *Granuloma inguinale*, *Gonococcal salpingitis*, epididymitis, acute *Epididymo-orchitis*, endocervical infections, syphilis and gonorrhoea (in cases of penicillin allergy);**Soft tissue**

Acne

Ophthalmic

Trachoma and inclusion conjunctivitis

Intestinal

Cholera, Whipple's disease and tropical sprue.

Miscellaneous

Rickettsial infections, brucellosis, tularaemia, actinomycosis, Lyme disease, yaws, relapsing fever, leptospirosis during the early infective phase.

CONTRA-INDICATIONS:

In patients with impaired renal function.

Allergy to any tetracycline.

DOXYCYCLINE BIOTECH 100 should not be given in pregnancy. DOXYCYCLINE BIOTECH 100 crosses the placenta and is deposited in foetal bones and teeth.

Pregnant women are particularly susceptible to severe Doxycycline-induced liver damage.

Should not be given to lactating women or to children younger than 12 years of age as permanent discolouration of the child's teeth may occur.

Should not be given to patients with systemic lupus erythematosus.

INTERACTIONS:

Absorption of DOXYCYCLINE BIOTECH 100 is diminished by milk, alkalis, aluminium hydroxide and other di and tri-valent cations such as calcium, iron and magnesium if they are given concomitantly.

Doses of anticoagulant may need to be reduced if given concomitantly.

Penicillin should not be given concomitantly with DOXYCYCLINE BIOTECH 100 as antagonism in action may occur.

DOXYCYCLINE BIOTECH 100 may diminish the effectiveness of oral contraceptives.

Methoxyflurane: serious nephrotoxicity may follow concomitant use.

PREGNANCY AND LACTATION:

DOXYCYCLINE BIOTECH 100 should not be given in pregnancy. DOXYCYCLINE BIOTECH 100 crosses the placenta and is deposited in foetal bones and teeth.

Pregnant women are particularly susceptible to severe Doxycycline-induced liver damage. Should not be given to lactating women as permanent discolouration of the child's teeth may occur.

DOSAGE AND DIRECTIONS FOR USE:

Should be taken either one hour before meals or two hours after meals.

DOXYCYCLINE BIOTECH 100 should be taken with adequate liquid and with the patient in the upright position, to avoid lodging of capsules in the distal oesophagus as this may result in local corrosive irritation and ulceration.

The usual dose is 100 mg twice daily on the first day, then 100 mg daily.

For acne the adult dosage is 50 mg twice daily.

WARNINGS AND SPECIAL PRECAUTIONS:

Use with care in patients with liver function impairment.

Frail or elderly patients are susceptible to the hepatotoxic and anti-anabolic effects of DOXYCYCLINE BIOTECH 100.

Do not use concomitantly with hepatotoxic medicines.

Symptoms of Myasthenia gravis may be aggravated.

Raised intracranial pressure may occur particularly in infants and especially if Vitamin A or other retinoids are given concomitantly.

Always tell your healthcare professional if you are using any other medicine.

DOXYCYCLINE BIOTECH 100 is not indicated for treating commonly occurring infection in children under 12 years of age.

SIDE EFFECTS:**Gastro-intestinal**

Nausea, vomiting, diarrhoea, glossitis, dysphagia related to oesophagitis, enterocolitis. Oesophageal ulceration has been reported when oral preparations were taken with insufficient fluid or in a recumbent position.

Secondary fungal overgrowth (Candida albicans)

Oral candidiasis, vulvovaginitis, pruritis ani.

Secondary bacterial overgrowth infections may occurResistant coliform organisms such as Proteus spp. may cause diarrhoea; Pseudomembranous colitis due to *Clostridium difficile* may occur; super-infection due to resistant staphylococci may cause fulminating enteritis.

Increased severity of uraemia and hepatotoxicity. In patients with renal disease given high doses.

Blood abnormalities

Haemolytic anaemia, eosinophilia, neutropenia, thrombocytopenia.

Vitamin deficiencies may occur.

Allergic (hypersensitivity) reactionsUrticaria, maculopapular and erythematous rashes, exfoliative dermatitis, exacerbation of systemic lupus erythematosus, pericarditis, Henoch-Schonlein purpura (*Anaphylactoid purpura*), Angieurotic oedema, anaphylaxis.

Photosensitivity of the skin and nails, onycholysis and nail discolouration may occur.

A Jarisch-Herxheimer-like reaction has been reported in patients with relapsing fever treated with doxycycline.

The use of expired doxycyclines may lead to a Fanconi-type syndrome which is characterised by polyuria and polydipsia with nausea, vomiting, proteinuria, glucosuria, acidosis, aminoaciduria, hypophosphataemia and hypocalcaemia.

Not all side effects reported for this medicine are included in this leaflet. Should your general health worsen or if you experience any untoward effects while taking this medicine, please consult your doctor, pharmacist or other health care professional for advice.

KNOWN SYMPTOMS OF OVERDOSE AND PARTICULARS OF ITS TREATMENT:

See (SIDE-EFFECTS and WARNINGS AND SPECIAL PRECAUTIONS).

Treatment is symptomatic and supportive.

IDENTIFICATION:

Round, light orange, film-coated, biconvex tablets, engraved "Dox" over "100" on one side. Other side plain.

PRESENTATION

DOXYCYCLINE BIOTECH 100 mg tablets are packed in white, opaque, HDPE plastic bottles of 100 and 250 and patient ready packs or cartons of 14 and 28 tablets.

STORAGE INSTRUCTIONS:

Store at or below 25 °C.

Protect from light.

KEEP OUT OF REACH OF CHILDREN

REGISTRATION NUMBERS:

31/20.1.1/0425

NAME AND BUSINESS ADDRESS OF THE HOLDER OF THE CERTIFICATE OF REGISTRATION:Biotech Laboratories (Pty) Ltd
Ground Floor, Block K West, Central Park,
400 16th Road, Randjespark, Midrand, 1685
South Africa**DATE OF PUBLICATION OF THE PACKAGE INSERT:**

25 April 1997

SKEDULERINGSTATUS:

54

EIENDOMSNAAM EN DOSEERVORM:

DOXYCYCLINE BIOTECH 100 mg Tablets

SAMESTELLING:

Elke tablet bevat:

Doksiklieniem hylaat gelykstaande aan 100 mg doksiklieni.

Eksipiénte: Mikrokristallyne celuloze, croscarmellose natrium, kolloïdale silikondioksied, magnesium stearat, TC-530027 oranje (Hypromellose, titaniumdioksied, polietileenglikol / makrogol, sunsel geel FCF aluminium lake, carnauba was).

Suiker

FARMAKOLOGIESE KLASIFIKASIE:

A 20.1.1 Antimikrobiese (chemoterapeutiese) middels. Breé en medium spektrum antibiotika.

FARMAKOLOGIESE WERKING:

Doksiklieniem is bakteriostatische antibiotikums wat bakteriële groei inhibeer deur hul binding aan die 30S ribosomale sub-eenheid wat misinterpretasie van inligting vir proteiensintese tot gevolg het.

Hulle is effekief *in vitro* teen die volgende organismes (*in vitro* aktiwiteit beteken nie noodwendig dat dit *in vivo* doeltreffend is):*Vibrio cholera*, *Ureaplasma urealyticum*, *Mycoplasma pneumonia*, *Chlamydia trachomatis*, *Chlamydia psittaci*, *Borrelia recurrentis*, *Calymmatobacterium granulomatis*, *Borrelia burgdorferi*, penicillien-sensitieve *Neisseria gonorrhoeae* en *Rickettsiae*.

Doksiklieniem is ook effekief vir die gebruik teen die volgende organismes in vitro:

Haemophilus ducreyi, *Actinomyces israelii*, *Francisella tularensis*, *Treponema pertenue*.**WEERSTANDIGE PATOGENE:**

Baie van die volgende stamme toon weerstandigheid:

Staphylococci

Enterococci

Proteus vulgaris

Swamme en giste (behalwe Actinomycetes)

Pseudomonas aeruginosa (alle stamme)*Escherichia coli*

Shigella

Streptococcus

FARMAKOKINETIKAT:

Doksiklieniem word geredelik en byna heeltemal geabsorbeer in die spysverteringskanaal. Piek plasma konseptrasies vind plaas onrent 2 ure na innname van die medisyne. Doksiklieniem word geredelik geabsorbeer deur liggaamsvloeiostewe en -weefsel.

INDIKASIES:

Infeksies wat veroorsaak word deur vatbare patogene stamme:

Boonste en onderste lugweginfeksiesSinusitis, faringitis, *Mycoplasma pneumoniae*, psittakose en chroniese bronritis.**Genito-ureniweginfeksies**Nie-spesifieke uretritis (slegs indien die stam sensitief is), *Lymphogranuloma venereum*, sjankroei en *Granuloma inguinale*, *Gonococcal salpingitis*, epididimitis, akute *Epididymo-orchitis*, endoservikale infeksies, sifilis en Gonoree (in gevalle van penisillien allergie);**Sagteweefsel**

Aknee

Oftalmies

Tragoen en insluitingskonjunktivitis

Dermkanaal

Cholera, Whipple se siekte en tropiese dermsproei.

Ander

Rickettsiale infeksies, brusellose, tularemie, aktinomikose, Lyme se siekte, frambesie, herhalende koers, leptosiprose in die vroeë aanstaeklike fase.

KONTRAINDIKASIES:

- In pasiënte met ingekorte nierfunksie.
- Allergie vir tetrasikliene.
- DOXYCYCLINE BIOTECH 100 moet nie tydens swangerskap gegee word nie. Doksiklieniem deurkruis die plasenta en word gedeponeer in die fetus se bene en tandé.
- Swanger vrouwe is veral vatbaar vir ernstige DOXYCYCLINE BIOTECH 100 geinduseerde lewerskade.
- Moet nie gegee word aan vrouens wat borsvoed nie, of aan kinders wat jonger as 12 jaar oud is nie, omdat permanente verkleuring van die kind se tandé mag voorkom.
- Moet nie gegee word aan pasiënte met sistemiese lupus eritematosoese nie.

INTERAKSIES:

Absorpsie van DOXYCYCLINE BIOTECH 100 word verminder deur melk, alkalisé middels, aluminiumhidroksied en ander di en tri-valentekatione soos kalsium, yster en magnesium indien hulle gelyktydig gegee word.

Dit mag nodig wees om dosisse van 'n antistolmiddel te verminder indien gelyktydig gegee word.

Die gebruik van penisillien tesame met DOXYCYCLINE BIOTECH 100 moet vermy word, omdat dit die werking daarvan kan teenwerk.

DOXYCYCLINE BIOTECH 100 kan die effektiwiteit van orale kontrasepsié verminder.

Metoksifluraan: gelyktydig gebruik kan nefrotoksisiteit tot gevolg hé.

SWANGERSKAP EN BORSVOEDING:

DOXYCYCLINE BIOTECH 100 moet nie tydens swangerskap gegee word nie. Doksiklieniem deurkruis die plasenta en word gedeponeer in die fetus se skelet en tandé. Swanger vrouwe is veral vatbaar vir ernstige DOXYCYCLINE BIOTECH 100 geinduseerde lewerskade. Moet nie gegee word aan vrouens wat borsvoed nie, omdat permanente verkleuring van die kind se tandé mag voorkom.

DOSIS EN GEBRUIKSAANWYSINGS:

Moet óf een vir eter of twee uur na etes geneem word.

DOXYCYCLINE BIOTECH 100 moet geneem word met genoeg vloeistof en met die pasiënt in die regop sitpende posisie om te vermy dat die tablet in die distale esofagus vassteek wat kan lei tot lokale koroderende irritasie en ulserasie.

Die gewone dosis is 100 mg twee maal per dag op die eerste dag, daarna 100 mg daagliks. Die volwasse dosis vir aknee is 50 mg twee maal per dag.

WAARSUKWINGS EN SPESIALE VOORSORGMAATREËLS:

Gebruik met sorg in pasiënte met ingekorte leverfunksie.

Verswakte of bejaarde pasiënte kan vatbaar wees vir die hepatotoksiese en anti-anaboliese effekte van DOXYCYCLINE BIOTECH 100.

Moet nie saam met hepatotoksiese medisyne gebruik nie.

Symptome van miastenie gravis kan vererger word.

Verhoogde intrakraniale druk kan voorkom veral in babas en veral as Vitamine A of ander retinoïede gelyktydig gegee word.

Lig u gesondheidsoordeskundige in indien u enige ander medisyne gebruik.

DOXYCYCLINE BIOTECH 100 word nie aangedui vir die behandeling van infeksies wat algemeen voorkom in kinders onder 12 jaar oud nie.

NEWE EFFEKTE EN SPESIALE VOORSORGMAATREËLS:**Spysverteringskanaal**

Naardie, braking, diarree, glossitis, disfasie verwant aan esofagitis, enterokolitis.

Esofageale ulserasie is al aangemeld wanneer orale preparate geneem word met onvoldoende vloeistowwe of in 'n leunende posisie is wanneer dit geneem word.

Sekondêre fungus oorgroeiing (Candida albicans)

Mondelinge kandiase, vulvovaginitis, pruritis ani.

Sekondêre bakteriële oorgroeiingsinfeksies kan plaasvindWeerstandige koliforme organismes soos Proteus spp. kan diarree veroorsaak; pseudomenbraankolitis as gevolg van *Clostridium difficile* kan voorkom; super-infeksie as gevolg van weerstandige staflokkie kan skeleel en ernstige enteritis veroorsaak.

Verhoogde verergering van uremie en hepatotoksiteit. In pasiënte met nierversaking vir wie hoë dosise gegee word.

Bloed abnormaliteite

Hemolitiese anemie, eosinoflie, neutropenie, trombositopenie.

Vitaminkortkort kan voorkom.

Allergiese (hipersensitiviteit) reaksies

Urtikarie, makulopapuler- en eritematose uitslag, eksfoliatiewe dermatitis, verergering van sistemiese lupus eritematosoese, perikarditis,

Henoch-Schönlein se purpura (*Anafilatoide purpura*), Angioneurotiese edeem, anafilaksie.

Fotosensitiviteit van die vel en naels, onigolise en verkleuring van die naels kan voorkom.

'n Soortgelyke reaksie soos die van Jarisch-Herxheimer se reaksie is aangemeld in pasiënte met terugkerende koers wat behandel is met DOXYCYCLINE BIOTECH 100.

Die gebruik van doksiklieniem wat reeds verval het kan lei tot 'n Fanconi-tipe sindroom wat gekenmerk word deur polurié en polidipsie met naarheid, braking, proteinurie, glukosurie, asidose, aminosuururie, hipofosfatemi en hipokalsemie.

BEKENDE SIMPTOME VAN ORDOSERING EN DIE BESONDERHEDE VIR DIE BEHANDELING DAARVAN:

Verwys na (NEWE EFFEKTE EN SPESIALE VOORSORGMAATREËLS).

Behandeling is simptomatis en ondersteunend.

IDENTIFIKASIE:

Ronde, lige oranje, film-bedekte, bikonvekske tablette waarop "Dox" oor "100" gegraveer is op die een kant. Die ander kant van die tablet is skoon.

AANBIEDING:

DOXYCYCLINE BIOTECH 100 mg tablette is verpak in wit, ondeursigtige, plastiese HDPE bottels van 100 of 250 tablette en patiënt verpakkings of kartonne met 14 en 28 tablette.

BERGINGSINSTRUKSIES:

Bewaar teen of benede 25 °C.

Beskerm teen lig.

HOU BUITE DIE BEREIK VAN KINDERS.

REGISTRASIENOMMER:

31/20.1.1/0425

NAAM EN BESIGHEIDSADRES VAN DIE HOUER VAN DIE REGISTRASIESERTIFIKAAT:

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Grond Vlae, Blok K Wes, Central Park,

400 16th Weg, Midrand, 1685

Suid Afrika

DATUM VAN DIE PUBLIKASIE VAN HIERDIE VOUBILJET:

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