

QUALITATIVE AND QUANTITATIVE COMPOSITION

T E D I Z[™] Tablet 200mg

Each film coated tablet contains: Tedizolid Phosphate MS...200mg

PHARMACEUTICAL FORM ilm-coated tablet

CLINICAL PARTICULARS

THERAPEUTIC INDICATIONS:

TEDIZ™ is indicated for the treatment of acute bacterial skin and skin structure infections (ABSSSI) in adults and adolescents 12 years of age and older. Consideration should be given to official guidance on the appropriate use of antibacterial agents.

POSOLOGY AND METHOD OF ADMINISTRATION:

Posology

TEDIZ[™] tablets may be used as initial therapy. Patients who commence treatment on the parenteral formulation may be switched to the oral presentation when clinically

Recommended dose and duration: The recommended dosage for adults and adolescents 12 years of age and older is 200mg once daily for 6 days. The safety and efficact of tedizolid phosphate when administered for periods longer than 6 days have not been established.

Missed dose: If a dose is missed, it should be taken as soon as possible anytime up to 8 hours prior to the next scheduled dose. If less than 8 hours remains before the next dose, then the patient should wait until the next scheduled dose. Patients should not take a double dose to compensate for a missed dose.

Elderly (≥65 years): No dosage adjustment is required. The clinical experience in patients ≥75 years is limited.

Hepatic impairment: No dosage adjustment is required. Renal impairment: No dosage adjustment is required.

Paediatric population: The safety and efficacy of tedizolid phosphate in children below 12 years of age have not yet been established. No recommendation on a posology for children below 12 years of age can be made.

Method of administration

For oral use. The film-coated tablets can be taken with or without food. The time to tedizolid peak concentration with oral administration under fasting conditions is 6 hours aster than when administered with a high-fat, high-calorie meal. If a rapid antibiotic effect is needed, the intravenous administration should be considered

CONTRAINDICATIONS:

Hypersensitivity to the active substance or to any of the excipients.

SPECIAL WARNINGS AND PRECAUTIONS FOR USE:

Patients with neutropenia: The safety and efficacy of tedizolid phosphate in patients with neutropenia (neutrophil counts <1,000 cells/mm²) have not been investigated. In an animal model of infection, the antibacterial activity of tedizolid was reduced in the absence of granulocytes. The clinical relevance of this finding is unknown. Alternative therapies should be considered when treating patients with neutropenia and ABSSSI.

Mitochondrial dysfunction: Tedizolid inhibits mitochondrial protein synthesis. Adverse reactions such as lactic acidosis, anaemia and neuropathy (optic and peripheral) may occur as a result of this inhibition. These events have been observed with another member of the oxazolidinone class when administered over a duration exceeding that recommended for tedizolid phosphate.

Myelosuppression: Thrombocytopenia, decreased haemoglobin and decreased neutrophils have been observed during treatment with tedizolid phosphate. Anaemia, eucopenia and pancytopenia have been reported in patients treated with another member of the oxazolidinone class and the risk of these effects appeared to be related to the duration of treatment. Most cases of thrombocytopenia occurred with treatment lasting longer than the recommended duration. There may be an association with hrombocytopenia in patients with renal insufficiency. Patients who develop mystopensis on should be monitored and the benefit-risk should be re-evaluated. If treatment is continued, dose monitoring of blood counts and appropriate management legislations and be implemented by the insufficiency progression should be re-evaluated. If treatment is continued, dose monitoring of blood counts and appropriate management strongly as well as optic neuropathy sometimes progressing to loss of vision, have been reported in

patients treated with another member of the oxazolidinone class with treatment durations exceeding that recommended for tedizolid phosphate. Neuropathy (optic and peripheral) has not been reported in patients treated with tedizolid phosphate at the recommended treatment duration of 6 days. All patients should be advised to report symptoms of visual impairment, such as changes in visual acuity, changes in color vision, blurred vision, or visual field defect. In such cases, prompt evaluation is

recommended with referral to an ophthalmologist as necessary.

Lactic acidosis: Lactic acidosis has been reported with the use of another member of the oxazolidinone class. Lactic acidosis has not been reported in patients treated with tedizolid phosphate at the recommended treatment duration of 6 days.

Hypersensitivity reactions: Tedizolid phosphate should be administered with caution in patients known to be hypersensitive to other oxazolidinones since ss-hypersensitivity may occur.

Clostridioides difficile associated diarrhoea: Clostridioides difficile associated diarrhoea (CDAD) has been reported for tedizolid phosphate. CDAD may range in severit from mild diarrheat to state locitis. Treatment with antibacterial agents alters the normal flora of the colon and may permit overgrowth of C. difficile. CDAD must be considered in all patients who present with severe diarrhoea 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, tedizolid phosphate and, if possible, other antibacterial agents not directed against C. difficile should be discontinued and adequate therapeutic measures should be initiated immediately. Appropriate supportive measures, antibiotic treatment of C. difficile, and surgical evaluation should be considered. Medicinal products inhibiting peristalsis are contraindicated in this situation.

Monoamine oxidase inhibition: Tedizolid is a reversible, non-selective inhibitor of monoamine oxidase (MAO) in vitro.

Serotonin syndrome: Spontaneous reports of serotonin syndrome associated with the co-administration of oxazolidinones, including tedizolid phosphate, together with serotonergic agents (such as antidepressants and opicids) have been reported. Caution should be exercised when tedizolid is used with these medicinal products. Patients should be closely observed for signs and symptoms of serotonin syndrome such as cognitive dysfunction, hyperpyrexia, hyperreflexia and incoordination. If signs or symptoms occur, physicians should consider discontinuing either one or both agents.

Non-susceptible microorganisms: Prescribing tedizoid phosphate in the absence of a proven or strongly suspected bacterial infection increases the risk of the development of drug-resistant bacteria. Tedizoild is generally not active against Gram-negative bacteria.

Limitations of the clinical data: The safety and efficacy of tedizolid phosphate when administered for periods longer than 6 days have not been established. In ABSSSI, the ypes of infections treated were confined to cellulitis/erysipelas or major culaneous abscesses, and wound infections only. Other fypes of skin infections have not been studied. There is limited experience with tedizolid phosphate in the treatment of patients with concomitant acute bacterial skin and skin structure infections and secondary bacteraemia and no experience in the treatment of ABSSSI with severe sepsis or septic shock. Controlled clinical studies did not include patients with neutropenia (neutrophil counts <1,000 cells/mm³) or severely immunocompromised patients.

INTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORM OF INTERACTIONS:

Pharmacokinetic interactions: In a clinical study comparing the single dose (10mg) pharmacokinetics of rosuvastatin (Brase Cancer Resistant Protein (BCRP) substrate) glone or in combination with eduzoid phosphate (note-eduly 200mg or ad dose), rosuvastatin AUC and Care land to the grant of the dose) provided by the control of the combination of BCRP at the intestinal education of the combination of BCRP at the intestinal eye. If possible, an interruption of the control of the combination of BCRP at the intestinal eye. If possible, an interruption of the combination of the comb the coadministered BCRP substrate medicinal product (such as imatinib, lapatinib, methotrexate, pitavastatin, rosuvastatin, sulfasalazine, and topotecan) should be considered during the 6 days of treatment with oral tedizolid phosphate. In a clinical study comparing the single dose (2mg) pharmacokinetics of midazolam (CYP3A4 substrate) alone or In combination with tedizoidi phosphate (once-daily 200mg oral dose for 10 days), midazolam AUC and C_{max} when co-administered with tedizoid phosphate were 81% and 83% of midazolam AUC and C_{max} when administered alone, respectively. This effect is not clinically meaningful, and no dose adjustment for co-administered CYP3A4 substrates is necessary during tedizolid phosphate treatment.

Pharmacodynamic interactions: Monoamine exidase inhibition: Tedizolid is a reversible inhibitor of monoamine exidase (MAO) in vitro; however, no interaction is anticipated hen comparing the ICss for MAO-A inhibition and the anticipated plasma exposures in man. Drug interaction studies to determine effects of 200mg oral tedizolid phosphate at steady state on pseudoephedrine and tyramine pressor effects were conducted in healthy volunteers. No meaningful changes in blood pressure or heart rate with pseudoephedrine were observed in the healthy volunteers, and no clinically relevant increase in tyramine sensitivity was observed. Potential serotonergic interactions: The potential for serotonergic interactions has not been studied in either patients or healthy volunteers. Post-marketing experience: there have been reports of patients experiencing serotonin syndrome while taking tedizolid and serotonergic agents (antidepressants, opicids) which resolved on discontinuation of one or both medications.

FERTILITY, PREGNANCY AND LACTATION

Fertility: The effects of tedizolid phosphate on fertility in humans have not been studied. Animal studies with tedizolid phosphate do not indicate harmful effects with respect to fertility Pregnancy: There are no data from the use of tedizolid phosphate in pregnant women. As a precautionary measure, it is preferable to avoid the use of tedizolid phosphate

Breast-feeding: It is unknown whether tedizolid phosphate or its metabolities are excreted in human milk. Tedizolid is excreted in the breast milk of rats. A risk to the preast-feeding infant cannot be excluded. A decision must be made whether to discontinue breast-feeding or to discontinue/abstain from tedizolid phosphate therapy taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman

EFFECTS ON ABILITY TO DRIVE AND USE MACHINES:

Tedizolid Phosphate may have a minor influence on the ability to drive and use machines as it may cause dizziness, fatigue or, uncommonly, somnolence.

Adverse reactions are classified by preferred term and System Organ Class, and by frequency. Frequencies are defined as: very common (≥1/10); common (≥1/100 to <1/10); uncommon (≥1/1,000 to <1/100); rare (≥1/10,000 to <1/1,000); very rare (<1/10,000); not known (cannot be estimated from the available data).

Infections and infestations: Uncommon: Vulvovaginal mycotic infection, fungal infection, vulvovaginal candidiasis, abscess, Clostridioides difficile colitis, dermatophytosis oral candidiasis, respiratory tract infection

Blood and lymphatic system disorders: Uncommon: Lymphadenopathy. Not known: Thrombocytopenia*

mmune system: Uncommon: Drug hypersensitivity.

Metabolism and nutrition disorders: Uncommon: Dehydration, diabetes mellitus inadequate control, hyperkalaemia.

Psychiatric disorders: Uncommon: Insomnia, sleep disorder, anxiety, nightmare.
Nervous system disorders: Common: Dizziness, headache. Uncommon: Somnolence, dysgeusia, tremor, paraesthesia, hypoaesthesia

Eye disorders: Uncommon: Vision blurred, vitreous floaters.

ardiac disorders: Uncommon: Bradycardia

Vascular disorders: Uncommon: Flushing, hot flush.

Respiratory, thoracic and mediastinal disorders: Uncommon: Cough, nasal dryness, pulmonary congestion.
Gastrointestinal disorders: Common: Diarrhoea, nausea, vomiting. Uncommon: Abdominal pain, constipation, abdominal discomfort, dry mouth, dyspepsia, abdominal pain upper, flatulence, gastroesophageal reflux disease, haematochezia, etching.

Skin and subcutaneous tissue disorders: Common: Pruritus generalised. Uncommon: Hyperhidrosis, pruritus, rash, urticaria, alopecia, rash erythematous, rash

Beneralised, acne, pruritus allergic, rash maculo-papular, rash papular, rash pruritic.

Musculoskeletal and connective tissue disorders: Uncommon: Arthralgia, muscle spasms, back pain, limb discomfort, neck pain.

Renal and Urinary disorders: Uncommon: Urine odour abnormal.

Reproductive system and breast disorders: Uncommon: Vulvovaginal pruritus.

General disorders and administration site conditions: Common: Fatigue. Uncommon: Chills, irritability, pyrexia, peripheral oedema.

Investigations: Uncommon: Grip strength decreased, transaminases increased, white blood cell count decreased

Based on post-marketing reports. Since these reactions are reported voluntarily from a population of uncertain size, it is not possible to reliably estimate their frequency which is therefore categorised as not known.

OVERDOSE:

n the event of overdose, Tedizolid Phosphate should be discontinued and general supportive treatment given. Haemodialysis does not result in meaningful removal of tedizolid from systemic circulation. The highest single dose administered in clinical studies was 1,200mg. All adverse reactions at this dose level were mild or moderate in severity.

PHARMACOLOGICAL PROPERTIES

PHARMACODYNAMIC PROPERTIES:

Pharmacotherapeutic group: Antibacterials for systemic use, other antibacterials, ATC code: J01XX11

Mechanism of action: Tedizolid phosphate is an oxazolidinone phosphate prodrug. The antibacterial activity of tedizolid is mediated by binding to the 50S subunit of the bacterial ribosome resulting in inhibition of protein synthesis. Tedizolid is primarily active against Gram-positive bacteria. Tedizolid is bacteriostatic against enterococci, staphylococci, and streptococci in vitro

PHARMACOKINETICS:

Oral and intravenous tedizolid phosphate is a prodrug that is rapidly converted by phosphatases to tedizolid, the microbiologically active moiety. Only the pharmacokinetic profile of tedizolid is discussed in this section.

Absorption: The absolute bioavailability of tedizolid is above 90%. Peak plasma tedizolid concentrations are achieved within approximately 3 hours after dosing after oral administration of tedizolid phosphate under fasted conditions. Peak concentrations (Comp.) of tedizolid are reduced by approximately 26% and delayed by 6 hours when tedizolid phosphate is administered after a high-fat meal relative to fasted.

Distribution: The average binding of tedizolid to human plasma proteins is approximately 70-90%. The mean steady state volume of distribution of tedizolid in healthy adults Personal Control of the Control of t

accounts for approximately 95% of the total radiocarbon AUC in plasma, there are no other significant circulating metabolites. When incubated with pooled human liver microsomes, tedizolid was stable suggesting that tedizolid is not a substrate for hepatic CYP450 enzymes. Multiple sulfotransferase (SULT) enzymes (SULT1A1, SULT1A2, and SULT2A1) are involved in the biotransformation of tedizolid, to form an inactive and non-circulating sulphate conjugate found in the excreta. Elimination: Tedizolid is eliminated in excreta, primarily as a non-circulating sulphate conjugate. Following single oral administration of 14C-labeled tedizolid phosphate under asted conditions, the majority of elimination occurred via the liver with 81.5% of the radioactive dose recovered in faeces and 18% in urine, with most of the elimination (>85%) occurring within 96 hours. Less than 3% of tedizolid phosphate administered dose is excreted as active tedizolid. The elimination half-life of tedizolid is approximately 12 hours and the intravenous clearance is 6-7L/h

PRECLINICAL SAFETY DATA:

Long-term carcinogenicity studies have not been conducted with tedizolid phosphate. Repeated oral and intravenous dosing of tedizolid phosphate in rats in 1-month and any term vacuoling-water size on veer contacts with educated with experience of an experience of a exp splenic B cells and T cells and reduce plasma IgG titres. These effects occurred at plasma tedizolid exposure levels (AUC) ≥3-fold greater than the expected human plasma exposure associated with the therapeutic dose. A special neuropathology study was conducted in pigmented Long Evans rats administered tedizolid phosphate daily for up to 9 months. This study used sensitive morphologic evaluation of perfusion-fixed peripheral and central nervous system tissue. No evidence of neurotoxicity, including neurobehavioral changes or optic or peripheral neuropathy, was associated with tedizolid after 1, 3, 6 or 9 months of oral administration up to doses with plasma exposure evels (AUC) up to 8-fold greater than the expected human plasma exposure at the oral therapeutic dose. Tedizolid phosphate was negative for genotoxicity in all in vitro assays (bacterial reverse mutation [Ames], Chinese hamster lung [CHL] cell chromosomal aberration) and in all in vivo tests (mouse bone marrow micronucleus, rat liver unscheduled DNA synthesis). Tedizolid, generated from tedizolid phosphate after metabolic activation (in vitro and in vivo), was also tested for genotoxicity. Tedizolid was positive in an in vitro CHL cell chromosomal aberration assay, but negative for genotoxicity in other in vitro assays (Ames, mouse lymphoma mutagenicity) and in vivo in a mouse bone marrow micronucleus assay. Tedizolid phosphate had no adverse effects on the fertility or reproductive performance of male rats, including spermatogenesis, at node one man or micronoceus assign exclusion phosphiae relat in developere electron in exemply the reproducing periodiciant process and provide a process of the maximum tested dose of Singligidary, or adult female rais at oral doses up to the maximum tested dose of 1 Singligidary. These dose levels equate to the exposure margins of \$5.3-fold for males and \$4.2-fold for females relative to tediziolid plasma AUO-24 levels at the human oral therapeutic dose. Emitryo-total development studies in mice and rais showed no evidence of a teratogenic effect at exposure levels 4-fold and 6-fold, respectively, those expected in humans, in embryo-foetal development studies in mice and rais showed no evidence of a teratogenic effect at exposure levels 4-fold and 6-fold, respectively, those expected in humans, in embryo-foetal positions. studies, tedizolid phosphate was shown to produce foetal developmental toxicities in mice and rats. Foetal developmental effects occurring in mice in the absence of maternal toxicity included reduced foetal weights and an increased incidence of costal cartilage fusion (an exacerbation of the normal genetic predisposition to stemal variations in the CD-1 strain of mice) at the high dose of 25mg/kg/day (4-fold the estimated human exposure level based on AUCs). In rats, decreased foetal weights and increased skeletal variations including reduced ossification of the sternabrae, vertebrae, and skull were observed at the high dose of 15mg/kg/day (6-fold the estimated human exposure based on AUCs) and were associated with maternal toxicity (reduced maternal body weights). The no observed adverse effect levels (NOAELs) for foetal toxicity in mice (5mg/kg/day) as well as maternal and foetal toxicity in rats (2.5mg/kg/day) were associated with tedizolid plasma area under the curve (AUC) values approximately equivalent to the tedizolid AUC value associated with the oral human therapeutic dose. Tedizolid is excreted into the milk of lactating rats and the concentrations observed were similar to those in maternal plasma

PHARMACEUTICAL PARTICULARS

LIST OF EXCIPIENTS:

Microcrystalline cellulose ● Mannitol ● Crospovidone ● Polyvinyl pyrrolidone ● Magnesium stearate ● Sheffcoat PVA white ● Yellow iron oxide color

INCOMPATIBILITIES:

SHELF LIFE:

See expiry on the pack.

SPECIAL PRECAUTIONS FOR STORAGE:

°C, and protect from heat, light and moisture. Improper storage may deteriorate the medicine.

Keep out of reach of children.

NATURE AND CONTENTS OF CONTAINER

Alu/Alu blister, pack size is 6's.

SPECIAL PRECAUTIONS FOR DISPOSAL OF A USED PRODUCT:

No special requirement.

DRUG PRODUCT SPECIFICATIONS:

Innovator's Specs

MARKETING AUTHORISATION HOLDER



MARKETING AUTHORISATION NUMBER(S)

DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION 16th August, 2024

DATE OF REVISION OF THE TEXT

خوراک ڈاکٹر کی ہدایت کےمطابق استعال کریں۔ صرف رجٹر ڈ ڈاکٹر کے نشخے کےمطابق فروخت کریں۔ چوں کی پہنچ سے دورر تھیں۔ دوا کو ۴ ڈگری سنٹی گریڈ سے زیادہ درجہ ترارت پر ندر تھیں، گرمی،روشنی اورنمی ہے محفوظ رکھیں ورنہ دواخراب ہوجائیگی۔