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COMPOSITION:

SILDAFIL Tablet 50 mg:

Each film coated tablet contains: Sildenafil citrate equivalent to Sildenafil. . 50 ma

Product Specs.: USP

SILDAFILTablet 100 mg

Each film coated tablet contains: Sildenafil citrate equivalent to Sildenafil. . 100 ma

Product Specs.: USF

Pharmacological properties:

Sildenafil is an oral therapy for erectile dysfunction. In the natural setting, i.e. with sexual stimulation, it restores impaired erectile function by increasing blood flow to the penis. Sildenafil is a potent and selective inhibitor of cGMP specific phosphodiesterase type 5 (PDE5) in the corpus cavernosum, where PDE5 is responsible for degradation of cGMP. Sildenafil has a peripheral site of action on erections. When the NO/cGMP pathway is activated, as occurs with sexual stimulation, in hibition of PDE5 by silden a fill results in increased corpus cavernosum levels of cGMP. Therefore sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulation in the sexual stimulation is required in the sexual stimulationorder for sildenafil to produce its intended beneficial pharmacological effects.

Pharmacokinetic properties:

Absorption:

Silden afil is rapidly absorbed. Maximum observed plasma concentrations are reached within 30 to 120 minutes (median 60 minutes) of oral dosing in the fasted state. The mean absolute or albio availability is 41% (range 25-63%). When silden a fill is taken with food, the rate of absorption is reduced with a mean absolute or albio availability of the rate of absorption is reduced with a mean absolute or albio availability of the rate of absorption is reduced with a mean absolute or albio availability of the rate of absorption is reduced with a mean absolute or albio availability of the rate of absorption is reduced with a mean absolute or albio availability of the rate of absorption is reduced with a mean absolute or albio availability of the rate of absorption is reduced with a mean absolute or albio availability of the rate of absorption is reduced with a mean absolute or albio availability of the rate of absorption of the rate of absorption is reduced with a mean absolute or albio availability of the rate of absorption of the rate ofdelay in T_{max} of 60 minutes and a mean reduction in C_{max} of 29%.

The mean steady state volume of distribution (V_{σ}) for sildenafil is 105 l, indicating distribution into the tissues. Since sildenafil (and its major circulating N $desmethyl \,metabolite) \,is\,96\%\,bound\,to\,plasma\,proteins, this results in the mean maximum free plasma concentration for sildenafil of 18\,ng/ml (38\,nM).$ Biotransformation:

Sildenafil is cleared predominantly by the CYP3A4 (major route) and CYP2C9 (minor route) hepatic microsomal isoenzymes. The major circulating metabolite results from N-demethylation of sildenafil

The total body clearance of sildenafil is 41 l/h with a resultant terminal phase half life of 3-5 h. After either oral or intravenous administration, sildenafil is excreted as metabolites predominantly (80%) in the faeces and to a lesser extent in the urine (13%)

Sildenafil is indicated in adult men with erectile dysfunction, which is the inability to achieve or maintain a penile erection sufficient for satisfactory sexual

In order for Sildenafil to be effective, sexual stimulation is required.

Posology: Use in adults:

The recommended dose is 50 mg taken as needed approximately one hour before sexual activity. Based on efficacy and tolerability, the dose may be increased to 100mg or decreased to 25 mg. The maximum recommended dose is 100 mg. The maximum recommended dosing frequency is once per day If Sildenafil is taken with food, the onset of activity may be delayed compared to the fasted state.

Special populations:

Elderly: Dosage adjustments are not required in elderly patients (≥ 65 years old).

Renal impairment: Since sildenafil clearance is reduced in patients with severe renal impairment (creatinine clearance < 30 ml/min) a 25mg dose should be considered.

Hepatic impairment: Since sildenafil clearance is reduced in patients with hepatic impairment (e.g. cirrhosis) a 25mg dose should be considered

Paediatric population: Sildenafil is not indicated for individuals below 18 years of age.

 $as \ retinit is \ pigmentos a \ (a \ minority \ of \ these \ patients \ have \ genetic \ disorders \ of \ retinal \ phosphodies terases).$

METHOD OF ADMINISTRATION

For oral use only

Hypersensitivity to the active substance or to any of the excipients

Sildenafil was shown to potentiate the hypotensive effects of nitrates, and its co-administration with nitric oxide donors (such as amyl nitrite) or nitrates in any form is therefore contraindicated. The co-administration of PDE5 inhibitors, including sildenafil, with guanylate cyclase stimulators, such as Riociguat, is contraindicated as it may

potentially lead to symptomatic hypotension Agents for the treatment of erectile dysfunction, including sildenafil, should not be used in men for whom sexual activity is inadvisable (e.g. patients with

severe cardiovascular disorders such as unstable angina or severe cardiac failure). Sildenafil is contraindicated in patients who have loss of vision in one eye because of non-arteritic anterior ischaemic optic neuropathy (NAION),

regardless of whether this episode was in connection or not with previous PDE5 inhibitor exposure. The safety of sildenafil has not been studied in the following sub-groups of patients and its use is therefore contraindicated: severe hepatic impairment, hypotension (blood pressure < 90/50 mmHg), recent history of stroke or myocardial infarction and known hereditary degenerative retinal disorders such

WARNINGS & PRECAUTIONS

A medical history and physical examination should be undertaken to diagnose erectile dysfunction and determine potential underlying causes, before

Cardiovascular risk factors:

Prior to initiating any treatment for erectile dysfunction, physicians should consider the cardiovascular status of their patients, since there is a degree of cardiac risk associated with sexual activity. Sildenafil has vasodilator properties, resulting in mild and transient decreases in blood pressure. Patients with increased susceptibility to vasodilators include those with left ventricular outflow obstruction (e.g., aortic stenosis, hypertrophic obstructive $cardiomy opathy), or those with the rare syndrome of multiple system at rophy manifesting as severely impaired autonomic control of blood pressure. \\ Sildenafil potentiates the hypotensive effect of nitrates.$

Serious cardiovascular events, including myocardial infarction, unstable angina, sudden cardiac death, ventricular arrhythmia, cerebrovascular haemorrhage, transient ischaemic attack, hypertension and hypotension have been reported post-marketing in temporal association with the use of Sildenafil. Most, but not all, of these patients had pre-existing cardiovascular risk factors.

Priapism:

Agents for the treatment of erectile dysfunction, including sildenafil, should be used with caution in patients with anatomical deformation of the penis (such as angulation, cavernosal fibrosis or Peyronie's disease), or in patients who have conditions which may predispose them to priapism (such as sickle cell anaemia, multiple myeloma or leukaemia).

The safety and efficacy of combinations of sildenafil with other PDE5 inhibitors, or other pulmonary arterial hypertension (PAH) treatments containing silden a fil, or other treatments for erectile dysfunction have not been studied. Therefore the use of such combinations is not recommended and the combination of the combination ofEffects on vision:

Cases of visual defects have been reported spontaneously in connection with the intake of sildenafil and other PDE5 inhibitors. Patients should be

advised that in the event of any sudden visual defect, they should stop taking sildenafil and consult a physician immediately

Concomitant use with ritonavir

Co-administration of sildenafil with ritonavir is not advised.

Concomitant use with alpha-blockers:

Caution is advised when sildenafil is administered to patients taking an alpha-blocker, as the coadministration may lead to symptomatic hypotension in a few susceptible individuals. In addition, physicians should advise patients what to do in the event of postural hypotensive symptoms Effect on bleeding:

 $There is no safet \overline{y} information on the administration of sildenafil to patients with bleeding disorders or active peptic ulceration. Therefore sildenafil should the performance of the performance of$ be administered to these patients only after careful benefit-risk assessment.

Interaction with other medicinal products and other forms of interaction: There is a reduction in sildenafil clearance when co-administered with CYP3A4 inhibitors (such as ketoconazole, erythromycin, cimetidine. Therefore when sildenafil is administered concomitantly with CYP3A4 inhibitors, a starting dose of 25mg should be considered

Co-administration of the HIV protease inhibitor ritonavir. Based on these pharmacokinetic results co-administration of sildenafil with ritonavir is not advised and in any event the maximum dose of sildenafil should under no circumstances exceed 25mg within 48 hours. Concomitant administration of strong CYP3A4 inducers, such as rifampin, is expected to cause greater decreases in plasma concentrations of sildenafil. Nicorandil is a hybrid of $pot assium channel \ activator \ and \ nitrate. \ Due to the nitrate component it has the potential to result in a serious interaction with sildenafil. \ Consistent with its known effects on the nitric oxide/cGMP pathway sildenafil was shown to potentiate the hypotensive effects of nitrates, and its co-administration with a sildenafil was shown to potentiate the hypotensive effects of nitrates, and its co-administration with a sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of nitrates. \ An article of the sildenafil was shown to potentiate the hypotensive effects of the sildenafil was shown to be article of the sildenafil was$ nitric oxide donors or nitrates in any form is therefore contraindicated. Riociguat has been shown to augment the hypotensive effects of PDE5 inhibitors. Concomitant use of riociguat with PDE5 inhibitors, including sildenafil, is contraindicated. Concomitant administration of sildenafil to patients taking alpha-blocker therapy may lead to symptomatic hypotension in a few susceptible individuals This is most likely to occur within 4 hours post sildenafil dosing:

 $Addition \ of a single \ dose \ of silden a fill to sacubitril/valsartan \ at \ steady \ state \ in patients \ with \ hypertension \ was \ associated \ with \ a \ significantly \ greater \ blood$ pressure reduction compared to administration of sacubitril/valsartan alone. Therefore, caution should be exercised when sildenafil is initiated in patients treated with sacubitril/valsartan.

Fertility: Sildenafil is not indicated for use by women.

There was no effect on sperm motility or morphology after single 100 mg oral doses of sildenafil in healthy volunteers.

Effects on ability to drive and use machines: Sildenafil may have a minor influence on the ability to drive and use machines

As dizziness and altered vision were reported in clinical trials with sildenafil, patients should be aware of how they react to Sildenafil, before driving or operating machinery.

ADVERSE EFFECTS:

In the table below all medically important adverse reactions, which occurred in clinical trials at an incidence greater than placebo are listed by system organ class and frequency 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) Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness

System Organ Class	Very common (≥ 1/10)	Common (≥ 1/100 and <1/10)	Uncommon (≥ 1/1000 and <1/100)	Rare (≥ 1/10000 and <1/1000)
Infections and infestations			Rhinitis	
Immune system disorders			Hypersensitivity	
Nervous system disorders	Headache	Dizziness	Somnolence, Hypoaesthesia	Cerebrovascular accident, Transient ischaemic attack, Seizure, Seizure recurrence, Syncope
Eye disorders		Visual colour distortions, Visual disturbance, Vision blurred	Lacrimation disorders, Eye pain, Photophobia, Photopsia, Ocular hyperaemia, Visual brightness, Conjunctivitis	Non-arteritic anterior ischaemic opti neuropathy (NAION), Retinal vascular occlusion, Retinal haemorrhage, Arteriosclerotic retinopathy, Retinal disorder, Glaucoma, Visual field defect, Diplopia, Visual acuity reduced, Myopia, Asthenopia, Vitreous floaters, Iris disorder, Mydriasis, Halo vision, Eye oedema, Eye welling, Eye disorder, Conjunctival hyperaemia, Eye irritation, Abnormal sensation in eye, Eyelid oedema, Scleral discoloration
Ear and labyrinth disorders			Vertigo, Tinnitus	Deafness
Cardiac disorders			Tachycardia, Palpitations	Sudden cardiac death, Myocardial infarction, Ventricular arrhythmia, Atrial fibrillation, Unstable angina
Vascular disorders		Flushing, Hot flush	Hypertension, Hypotension	
Respiratory, thoracic and mediastinal disorders		Nasal congestion	Epistaxis, Sinus congestion	Throat tightness, Nasal oedema, Nasal dryness
Gastrointestinal disorders		Nausea, Dyspepsia	Gastro oesophageal reflux disease, Vomiting, Abdominal pain upper, Dry mouth	Hypoaesthesia oral
Skin and subcutaneous tissue disorders			Rash	Stevens-Johnson Syndrome (SJS), Toxic Epidermal Necrolysis (TEN)
Musculoskeletal and connective tissue disorders			Myalgia, Pain in extremity	
Renal and urinary disorders			Haematuria	
Reproductive system and breast disorders				Penile haemorrhage, Priapism, Haematospermia, Erection increased
General disorders and administration site conditions			Chest pain, Fatigue, Feeling hot	Irritability
Investigations			Heart rate increased	

OVERDOSE

In cases of overdose, standard supportive measures should be adopted as required. Renal dialysis is not expected to accelerate clearance as sildenafil is highly bound to plasma proteins and not eliminated in the urine

Store below 30°C. Protect from heat, sunlight & moisture. Keep out of the reach of children To be sold on the prescription of a registered medical practitioner only.

PRESENTATION:

SILDAFIL Tablet 50 mg Pack of 1 x 4 tablets. SILDAFIL Tablet 100 mg Pack of 1 x 4 tablets

Manufactured by:

ceuticals Pvt. Ltd.

Plot No. 129, Sundar Industrial Estate, Raiwind Road, Lahore, Pakistan,

FOR FURTHER INFORMATION PLEASE CONTACT:



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