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HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use SILDENAFIL TABLETS safely and effectively. See full prescribing information for SILDENAFIL TABLETS.

SILDENAFIL tablets, for oral use Initial U.S. Approval: 1998

-- RECENT MAJOR CHANGES ---

Warnings and Precautions, Effects on the Eye (5.3) ---- INDICATIONS AND USAGE

Sildenafil is a phosphodiesterase-5 (PDE5) inhibitor indicated for the treatment of erectile dysfunction (ED) (1)

----- DOSAGE AND ADMINISTRATION • For most patients, the recommended dose is 50 mg taken, as needed, approximately 1 hour before sexual activity. However, sildenafil tablets may be taken anywhere from 30

minutes to 4 hours before sexual activity (2.1)

Based on effectiveness and toleration, may increase to a maximum of 100 mg or decrease to 25 mg (2.1) • Maximum recommended dosing frequency is once per day (2.1)

--- DOSAGE FORMS AND STRENGTHS

Tablets: 25 mg, 50 mg and 100 mg (3)

----- CONTRAINDICATIONS -

· Administration of sildenafil tablets to patients using nitric oxide donors, such as organic nitrates or organic nitrites in any form. Sildenafil was shown to potentiate the

hypotensive effect of nitrates (4.1, 7.1, 12.2) Known hypersensitivity to sildenafil or any component of tablet (4.2)

• Administration with guanylate cyclase (GC) stimulators, such as riociguat (4.3)

-- WARNINGS AND PRECAUTIONS --• Patients should not use sildenafil if sexual activity is inadvisable due to cardiovascular status (5.1)

Patients should seek emergency treatment if an erection lasts >4 hours. Use sildenafil with caution in patients predisposed to priapism (5.2)

 Patients should stop sildenafil tablets and seek medical care if a sudden loss of vision occurs in one or both eyes, which could be a sign of non arteritic anterior ischemic optic neuropathy (NAION). Sildenafil tablets should be used with caution, and only when the anticipated benefits outweigh the risks, in patients with a history of NAION. Patients with a "crowded" optic disc may also be at an increased risk of NAION. (5.3)

Patients should stop sildenafil tablets and seek prompt medical attention in the event of sudden decrease or loss of hearing (5.4)

• Caution is advised when sildenafil is co-administered with alpha-blockers or anti-hypertensives. Concomitant use may lead to hypotension (5.5) Decreased blood pressure, syncope, and prolonged erection may occur at higher sildenafil exposures. In patients taking strong CYP inhibitors, such as ritonavir, sildenafil

exposure is increased. Decrease in sildenafil dosage is recommended (2.4, 5.6)

-- ADVERSE REACTIONS -----

Most common adverse reactions (≥2%) include headache, flushing, dyspepsia, abnormal vision, nasal congestion, back pain, myalgia, nausea, dizziness and rash (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact www.umedicalabs.com at 1-855-288-577 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. ---- DRUG INTERACTIONS ---

Sildenafil can potentiate the hypotensive effects of nitrates, alpha blockers, and anti-hypertensives (4.1, 5.5, 7.1, 7.2, 7.3, 12.2)

• With concomitant use of alpha blockers, initiate sildenafil at 25 mg dose (2.3)

• CYP3A4 inhibitors (e.g., ritonavir, ketoconazole, itraconazole, erythromycin): Increase sildenafil exposure (2.4, 7.4, 12.3)

Ritonavir: Do not exceed a maximum single dose of 25 mg in a 48 hour period (2.4, 5.6)

 Erythromycin or strong CYP3A4 inhibitors (e.g., ketoconazole, itraconazole, saquinavir): Consider a starting dose of 25 mg (2.4, 7.4) ----USE IN SPECIFIC POPULATIONS ----

Geriatric use: Consider a starting dose of 25 mg (2.5, 8.5) Severe renal impairment: Consider a starting dose of 25 mg (2.5, 8.6)

Hepatic impairment: Consider a starting dose of 25 mg (2.5, 8.7)

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Revised: 11/2023

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For most patients, the recommended dose is 50 mg taken, as needed, approximately 1 hour before sexual activity. However, sildenafil tablets may be taken anywhere from 30 minutes to 4 hours before sexual activity. The maximum recommended dosing frequency is once per day.

Sildenafil tablets was shown to potentiate the hypotensive effects of nitrates and its administration in patients who use nitric oxide donors such as organic nitrates or organic nitrites in any form is therefore contraindicated [see Contraindications (4.1), Drug Interactions (7.1), and Clinical Pharmacology (12.2)].

When sildenafil tablets are co-administered with an alpha-blocker, patients should be stable on alpha-blocker therapy prior to initiating sildenafil tablets treatment and sildenafil tablets should be initiated at 25 mg [see Warnings and Precautions (5.5), Drug Interactions (7.2), and Clinical Pharmacology

The recommended dose for ritonavir-treated patients is 25 mg prior to sexual activity and the recommended maximum dose is 25 mg within a 48 hour period because concomitant administration increased the blood levels of sildenafil by 11-fold [see Warnings and Precautions (5.6), Drug Interactions (7.4), and Clinical Pharmacology (12.3)].

Consider a starting dose of 25 mg in patients treated with strong CYP3A4 inhibitors (e.g., ketoconazole, itraconazole, or saquinavir) or erythromycin. Clinical data have shown that co-administration with saquinavir or erythromycin increased plasma levels of sildenafil by about 3 fold [see Drug Interactions (7.4) and Clinical Pharmacology (12.3)].

Consider a starting dose of 25 mg in patients > 65 years, patients with hepatic impairment (e.g., cirrhosis), and patients with severe renal impairment

Silden a fill tablets, USP are supplied as pale blue to blue, caplet shaped film-coated tablets containing silden a fill citrate USP equivalent to 50 mg, or 100 mg of 100 mg of 100 mg. The content is the containing silden a fill citrate USP equivalent to 50 mg, or 100 mg of 100 mg. The content is the containing silden a fill citrate USP equivalent to 50 mg, or 100 mg of 100 mg. The content is the containing silden a fill citrate USP equivalent to 50 mg, or 100 mg of 100 mg. The content is the containing silden a fill citrate USP equivalent to 50 mg, or 100 mg of 100 mg. The content is the containing silden a fill citrate USP equivalent to 50 mg, or 100 mg of 100 mg. The content is the containing silden a fill citrate USP equivalent to 50 mg, or 100 mg of 100 mg. The content is the containing silden a fill citrate USP equivalent to 50 mg, or 100 mg of 100 mg. The content is the containing silden and the containing silden a fillen a f

Consistent with its known effects on the nitric oxide/cGMP pathway [see Clinical Pharmacology (12.1, 12.2)], sildenafil tablets was shown to potentiate the

After patients have taken sildenafil tablets, it is unknown when nitrates, if necessary, can be safely administered. Although plasma levels of sildenafil at 24

hours post dose are much lower than at peak concentration, it is unknown whether nitrates can be safely co-administered at this time point [see Dosage and

Sildenafil tablets are contraindicated in patients with a known hypersensitivity to sildenafil, as contained in sildenafil tablets and REVATIO, or any component of the tablet. Hypersensitivity reactions have been reported, including rash and urticaria [see Adverse Reactions (6.1)].

Do not use sildenafil tablets in patients who are using a GC stimulator, such as riociguat. PDE5 inhibitors, including sildenafil, may potentiate the hypotensive effects of GC stimulators.

There is a potential for cardiac risk of sexual activity in patients with preexisting cardiovascular disease. Therefore, treatments for erectile dysfunction, including sildenafil, should not be generally used in men for whom sexual activity is inadvisable because of their underlying cardiovascular status. The evaluation of erectile dysfunction should include a determination of potential underlying causes and the identification of appropriate treatment following a

Sildenafil has systemic vasodilatory properties that resulted in transient decreases in supine blood pressure in healthy volunteers (mean maximum decrease of 8.4/5.5 mmHg), [see Clinical Pharmacology (12.2)]. While this normally would be expected to be of little consequence in most patients, prior to prescribing sildenafil, physicians should carefully consider whether their patients with underlying cardiovascular disease could be affected adversely by such vasodilatory effects, especially in combination with sexual activity.

Use with caution in patients with the following underlying conditions which can be particularly sensitive to the actions of vasodilators including sildenafii – those with left ventricular outflow obstruction (e.g., aortic stenosis, idiopathic hypertrophic subaortic stenosis) and those with severely impaired

Prolonged erection greater than 4 hours and priapism (painful erections greater than 6 hours in duration) have been reported infrequently since market approval of sildenafil tablets. In the event of an erection that persists longer than 4 hours, the patient should seek immediate medical assistance. If priapism is not treated immediately, penile tissue damage and permanent loss of potency could result.

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 anemia, multiple myeloma, or leukemia). However, there are no controlled clinical data on the safety or efficacy of sildenafil in patients with sickle cell or related anemias.

Physicians should advise patients to stop use of all phosphodiesterase type 5 (PDE5) inhibitors, including sildenafil, and seek medical attention in the event of a sudden loss of vision in one or both eyes. Such an event may be a sign of non-arteritic anterior ischemic optic neuropathy (NAION), a rare condition and a cause of decreased vision including permanent loss of vision, that has been reported rarely post-marketing in temporal association with the use of all PDE5 inhibitors. Based on published literature, the annual incidence of NAION is 2.5-118, cases per 100,000 in males aged > 50. An observational case-crossover study evaluated the risk of NAION when PDE5 inhibitor use, as a class, occurred immediately before NAION onset (within 5 half-lives), compared to PDE5 inhibitor use in a prior time period. The results suggest an approximate 2-fold increase in the risk of NAION, with a risk estimate of 2.15 (95% C1 1.06, 4.34). A similar study reported a consistent result, with a risk estimate of 2.27 (95% C1 0.99, 5.20). Other risk factors for NAION, such as the presence of "crowded" optic disc, may have contributed to the occurrence of NAION in these studies.

Neither the rare post-marketing reports, nor the association of PDE5 inhibitor use and NAION in the observational studies, substantiate a causal relationship between PDE5 inhibitor use and NAION [see Adverse Reactions (6.2)].

Physicians should consider whether their patients with underlying NAION risk factors could be adversely affected by use of PDE5 inhibitors. Individuals

who have already experienced NAION are at increased risk of NAION recurrence. Therefore, PDE5 inhibitors, including sildenafil, should be used with caution in these patients and only when the anticipated benefits outweigh the risks. Individuals with "crowded" optic disc are also considered at greater risk for NAION compared to the general population, however, evidence is insufficient to support screening of prospective users of PDE5 inhibitors, including

There are no controlled clinical data on the safety or efficacy of sildenafil in patients with retinitis pigmentosa (a minority of these patients have genetic

Physicians should advise patients to stop taking PDE5 inhibitors, including sildenafil, and seek prompt medical attention in the event of sudden decrease

loss of hearing. These events, which may be accompanied by tinnitus and dizziness, have been reported in temporal association to the intake of PDE5 inhibitors, including sildenafil. It is not possible to determine whether these events are related directly to the use of PDE5 inhibitors or to other factors [see

Caution is advised when PDE5 inhibitors are co-administered with alpha-blockers, PDE5 inhibitors, including sildenafil, and alpha-adrenergic blocking

agents are both vasodilators with blood pressure lowering effects. When vasodilators are used in combination, an additive effect on blood pressure may occur. In some patients, concomitant use of these two drug classes can lower blood pressure significantly [see Drug Interactions (7.2) and Clinical

· Patients who demonstrate hemodynamic instability on alpha-blocker therapy alone are at increased risk of symptomatic hypotension with concomitant use of PDE5 inhibitors. Patients should be stable on alpha-blocker therapy prior to initiating a PDE5 inhibitor.

In those patients who are stable on alpha-blocker therapy, PDE5 inhibitors should be initiated at the lowest dose [see Dosage and Administration]

• In those patients already taking an optimized dose of a PDE5 inhibitor, alpha-blocker therapy should be initiated at the lowest dose. Stepwise increase

in alpha-blocker dose may be associated with further lowering of blood pressure when taking a PDE5 inhibitor.

• Safety of combined use of PDE5 inhibitors and alpha-blockers may be affected by other variables, including intravascular volume depletion and other

In a separate drug interaction study, when amlodipine, 5 mg or 10 mg, and sildenafil, 100 mg were orally administered concomitantly to hypertensive patients mean additional blood pressure reduction of 8 mmHg systolic and 7 mmHg diastolic were noted [see Drug Interactions (7.3) and Clinical

The concomitant administration of the protease inhibitor ritonavir substantially increases serum concentrations of sildenafil (11-fold increase in AUC). If sildenafil is prescribed to patients taking ritonavir, caution should be used. Data from subjects exposed to high systemic levels of sildenafil are limited. Decreased blood pressure, syncope, and prolonged erection were reported in some healthy volunteers exposed to high doses of sildenafil (200-800 mg). To decrease the chance of adverse reactions in patients taking ritonavir, a decrease in sildenafil dosage is recommended [see Dosage and Administration (2.4), Drug Interactions (7.4), and Clinical Pharmacology (12.3)].

The safety and efficacy of combinations of sildenafil with other PDE5 Inhibitors, including REVATIO or other pulmonary arterial hypertension (PAH)

Sildenafil has systemic vasodilatory properties and may further lower blood pressure in patients taking antihypertensive medications.

There are no controlled clinical data on the safety or efficacy of sildenafil in the following groups; if prescribed, this should be done with caution.

Patients who have suffered a myocardial infarction, stroke, or life-threatening arrhythmia within the last 6 months; Patients with resting hypotension (BP <90/50 mmHg) or hypertension (BP >170/110 mmHg);

Patients with cardiac failure or coronary artery disease causing unstable angina.

disorders of retinal phosphodiesterases); if prescribed, this should be done with caution

5.5 Hypotension when Co-administered with Alpha-blockers or Anti-hypertensives

nacology (12.2)] leading to symptomatic hypotension (e.g., dizziness, lightheadedness, fainting)

potensive effects of nitrates, and its administration to patients who are using nitric oxide donors such as organic nitrates or organic nitrites in any form

sildenafil. Tablets are debossed with 1A1 and 1A2 on one side and plain on the other to indicate the dosage strengths viz. 100 mg and 50 mg respectively Sildenafil tablets 25 mg USP is supplied as Pale blue to blue, round film-coated tablets, debossed with "25" on one side and "SL" on other side.

nistration of sildenafil tablets in these patients resulted in higher plasma levels of sildenafil [see Use in

 $Based \ on \ effectiveness \ and \ toleration, the \ dose \ may \ be \ increased \ to \ a \ maximum \ recommended \ dose \ of \ 100 \ mg \ or \ decreased \ to \ 25 \ mg.$

Effects on Bleeding

ADVERSE REACTIONS

- Counseling Patients About Sexually Transmitted Diseases 5.9
- Clinical Trials Experience 6.2 Postmarketing Experience

FULL PRESCRIBING INFORMATION

2 DOSAGE AND ADMINISTRATION

Sildenafil tablets may be taken with or without food. 2.3 Dosage Adjustments in Specific Situations

2.4 Dosage Adjustments Due to Drug Interactions

2.5 Dosage Adjustments in Special Populations

Specific Populations (8.5, 8.6, 8.7) and Clinical Pharmacology (12.3)].

either regularly and/or intermittently is therefore contraindicated.

4.3 Concomitant Guanylate Cyclase (GC) Stimulators

5 WARNINGS AND PRECAUTIONS

5.3 Effects on the Eye

Adverse Reactions (6.1, 6.2)].

anti-hypertensive drugs.

Anti-hypertensives

patients mean additior Pharmacology (12.2)].

Consideration should be given to the following:

5.6 Adverse Reactions with the Concomitant Use of Ritonavir

Therefore, the use of such combinations is not recommended.

5.7 Combination with other PDE5 Inhibitors or Other Erectile Dysfunction Therapies

Alpha-blockers

Administration (2.3), Drug Interactions (7.1), and Clinical Pharmacology (12.2)].

1 INDICATIONS AND USAGE

2.2 Use with Food

CYP3A4 Inhibitors

4 CONTRAINDICATIONS

4.1 Nitrates

5.6

Sildenafil tablets are indicated for the treatment of erectile dysfunction

*Sections or subsections omitted from the full prescribing information are not listed has not been established. In humans, sildenafil has no effect on bleeding time when taken alone or with aspirin. However, in vitro studies with human

platelets indicate that sildenafil potentiates the antiaggregatory effect of sodium nitroprusside (a nitric oxide donor). In addition, the combination of heparin and sildenafil had an additive effect on bleeding time in the anesthetized rabbit, but this interaction has not been studied in humans.

The safety of silden a fill is unknown in patients with bleeding disorders and patients with active peptic ulceration.

5.9 Counseling Patients About Sexually Transmitted Diseases The use of sildenafil offers no protection against sexually transmitted diseases. Counseling of patients about the protective measures necessary to guard against sexually transmitted diseases, including the Human Immunodeficiency Virus (HIV), may be considered.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

The following are discussed in more detail in other sections of the labeling: Cardiovascular [see Warnings and Precautions (5.1)]

Cardiovascular [see Warnings and Precautions (5.1)]
Prolonged Erection and Priapism [see Warnings and Precautions (5.2)]
Effects on the Eye [see Warnings and Precautions (5.3)]
Hearing Loss [see Warnings and Precautions (5.4)]
Hypotension when Co-administered with Alpha-blockers or Anti-hypotension when Co-administered with Alpha-blockers or Anti-hypotension when Co-administered with Alpha-blockers or Anti-hypotension when Co-administered with Alpha-blockers or Anti-hypotensions (5.6)]
Adverse Reactions with the Concomitant Use of Ritonavir [see Warnings and Precautions (5.6)]
Combination with other PDE5 Inhibitors or Other Erectile Dystunction Therapies [see Warnings and Precautions (5.7)]

Effects on Bleeding [see Warnings and Precautions (5.8)]
Counseling Patients About Sexually Transmitted Diseases [see Warnings and Precautions (5.9)]

The most common adverse reactions reported in clinical trials (≥2%) are headache, flushing, dyspepsia, abnormal vision, nasal congestion, back pain,

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

Sildenafil was administered to over 3700 patients (aged 19-87 years) during pre-marketing clinical trials worldwide. Over 550 patients were treated for In placebo-controlled clinical studies, the discontinuation rate due to adverse reactions for sildenafil (2.5%) was not significantly different from placebo

In fixed-dose studies, the incidence of some adverse reactions increased with dose. The type of adverse reactions in flexible-dose studies, which reflect the recommended dosage regimen, was similar to that for fixed-dose studies. At doses above the recommended dose range, adverse reactions were similar to those detailed in Table 1 below but generally were reported more frequently.

Table 1: Adverse Reactions Reported by >2% of Patients Treated with sildenafil and More Frequent than Placebo in Fixed-Dose Phase II/III Studies

Adverse Reaction	(n=312)	(n=511)	(n=506)	(n=607)	
Headache	16%	21%	28%	7%	
Flushing	10%	19%	18%	2%	
Dyspepsia	3%	9%	17%	2%	
Abnormal vision†	1%	2%	11%	1%	
Nasal congestion	4%	4%	9%	2%	
Back pain	3%	4%	4%	2%	
Myalgia	2%	2%	4%	1%	
Nausea	2%	3%	3%	1%	
Dizziness	3%	4%	3%	2%	
Rash	1%	2%	3%	1%	

Abnormal Vision: Mild to moderate in severity and transient, predominantly color tinge to vision, but also increased sensitivity to light, or blurred vision. afil was taken as recommended (on an as-needed basis) in flexible-dose, placebo-controlled clinical trials of two to twenty-six weeks duration, patients took sildenafil at least once weekly, and the following adverse reactions were reported.

Table 2. Adverse Reactions Reported by $\ge 2\%$ of Patients Treated with sildenafil and More Frequent than Placebo in Flexible-Dose Phase II/III Studies

Adverse Reaction	SILDENAFIL CITRATE	PLACEB0		
	N=734	N=725		
Headache	16%	4%		
Flushing	10%	1%		
Dyspepsia	7%	2%		
Nasal Congestion	4%	2%		
Abnormal Vision†	3%	0%		
Back pain	2%	2%		
Dizziness	2%	1%		
Rach	2%	1%		

Abnormal Vision: Mild and transient, predominantly color tinge to vision, but also increased sensitivity to light or blurred vision. In these studies, only one The following events occurred in <2% of patients in controlled clinical trials; a causal relationship to sildenafil is uncertain. Reported events include those

with a plausible relation to drug use; omitted are minor events and reports too imprecise to be meaningful: Body as a Whole: face edema, photosensitivity reaction, shock, asthenia, pain, chills, accidental fall, abdominal pain, allergic reaction, chest pain,

Cardiovascular: angina pectoris, AV block, migraine, syncope, tachycardia, palpitation, hypotension, postural hypotension, myocardial ischemia, cerebral thrombosis, cardiac arrest, heart failure, abnormal electrocardiogram, cardiomyopathy. Digestive: vomiting, glossitis, colitis, dysphagia, gastritis, gastroenteritis, esophagitis, stomatitis, dry mouth, liver function tests abnormal, rectal

Hemic and Lymphatic: anemia and leukopenia. Metabolic and Nutritional: thirst, edema, gout, unstable diabetes, hyperglycemia, peripheral edema, hyperuricemia, hypoglycemic reaction,

Musculoskeletal: arthritis, arthrosis, myalgia, tendon rupture, tenosynovitis, bone pain, myasthenia, synovitis.

Nervous: ataxia, hypertonia, neuralgia, neuropathy, paresthesia, tremor, vertigo, depression, insomnia, somnolence, abnormal dreams, reflexes Respiratory: asthma, dyspnea, laryngitis, pharyngitis, sinusitis, bronchitis, sputum increased, cough increased.

Special Senses: sudden decrease or loss of hearing, mydriasis, conjunctivitis, photophobia, tinnitus, eye pain, ear pain, eye hemorrhage, cataract, dry

Skin and Appendages: urticaria, herpes simplex, pruritus, sweating, skin ulcer, contact dermatitis, exfoliative dermatitis.

Urogenital: cystitis, nocturia, urinary frequency, breast enlargement, urinary incontinence, abnormal ejaculation, genital edema and anorgasmia Analysis of the safety database from controlled clinical trials showed no apparent difference in adverse reactions in patients taking sildenafil with and without anti-hypertensive medication. This analysis was performed retrospectively, and was not powered to detect any pre-specified difference in adverse

The following adverse reactions have been identified during post approval use of sildenafil. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. These events have been chosen for inclusion either due to their seriousness, reporting frequency, lack of clear alternative causation, or a combination of these factors.

Serious cardiovascular, cerebrovascular, and vascular events, including myocardial infarction, sudden cardiac death, ventricular arrhythmia, cerebrovascular hemorrhage, transient ischemic attack, hypertension, subarachnoid and intracerebral hemorrhages, and pulmonary hemorrhage have been reported post-marketing in temporal association with the use of sildenafil. Most, but not all, of these patients had preexisting cardiovascular risk

factors. Many of these events were reported to occur during or shortly after sexual activity, and a few were reported to occur shortly after the use of sildenafil without sexual activity. Others were reported to have occurred hours to days after the use of sildenafil and sexual activity. It is not possible to determine whether these events are related directly to sildenafil, to sexual activity, to the patient's underlying cardiovascular disease, to a combination of these factors, or to other factors [see Warnings and Precautions (5.1) and Patient Counseling Information (17)]. Hemic and Lymphatic: vaso-occlusive crisis: In a small, prematurely terminated study of REVATIO (sildenafil) in patients with pulmonary arterial

hypertension (PAH) secondary to sickle cell disease, vaso-occlusive crises requiring hospitalization were more commonly reported in received sildenafil than in those randomized to placebo. The clinical relevance of this finding to men treated with sildenafil for ED is not known

Nervous: seizure, seizure recurrence, anxiety, and transient global amnesia.

Abering: Cases of sudden decrease or loss of hearing have been reported postmarketing in temporal association with the use of PDE5 inhibitors, including sildenafil. In some of the cases, medical conditions and other factors were reported that may have also played a role in the otologic adverse events. In many cases, medical follow-up information was limited. It is not possible to determine whether these reported events are related directly to the use of sildenafil, to the patient's underlying risk factors for hearing loss, a combination of these factors, or to other factors [see Warnings and Precautions (5.4) and Patient

Ocular: diplopia, temporary vision loss/decreased vision, ocular redness or bloodshot appearance, ocular burning, ocular swelling/pressure, increased traocular pressure, retinal edema, retinal vascular disease or bleeding, and vitreous traction

Non-arteritic anterior ischemic ontic neuronathy (NAION), a cause of decreased vision including permanent loss of vision, has been reported rarely postmarketing in temporal association with the use of phosphodiesterase type 5 (PDE5) inhibitors, including sildenatil. Most, but not all, of these patients had underlying anatomic or vascular risk factors for developing NAION, including but not necessarily limited to: low cup to disc ratio ("crowded disc"), age over 50, diabetes, hypertension, coronary artery disease, hyperlipidemia and smoking. [see Warnings and Precautions (5.3) and Patient Counseling

Urogenital: prolonged erection, priapism [see Warnings and Precautions (5.2) and Patient Counseling Information (17)], and hematuria. 7 DRUG INTERACTIONS

Use caution when co-administering alpha-blockers with sildenafil because of potential additive blood pressure- lowering effects. When sildenafil is co-administered with an alpha-blocker, patients should be stable on alpha-blocker therapy prior to initiating sildenafil treatment and sildenafil should be initiated at the lowest dose [see Dosage and Administration (2.3), Warnings and Precautions (5.5), Clinical Pharmacology (12.2)].

When sildenafil 100 mg was co-administered with amlodipine (5 mg or 10 mg) to hypertensive patients, the mean additional reduction on supine blood pressure was 8 mmHg systolic and 7 mmHg diastolic [see Warnings and Precautions (5.5), Clinical Pharmacology (12.2)].

Co-administration of ritonavir, a strong CYP3A4 inhibitor, greatly increased the systemic exposure of sildenafil (11-fold increase in AUC). It is therefore recommended not to exceed a maximum single dose of 25 mg of sildenafil in a 48 hour period [see Dosage and Administration (2.4), Warnings and Precautions (5.6), Clinical Pharmacology (12.3)].

Co-administration of erythromycin, a moderate CYP3A4 inhibitor, resulted in a 160% and 182% increases in sildenafil C_{max} and AUC, respectively. Co-administration of saquinavir, a strong CYP3A4 inhibitor, resulted in 140% and 210% increases in sildenafil C_{max} and AUC, respectively. Stronger CYP3A4 inhibitors such as ketoconazole or itraconazole could be expected to have greater effects than seen with saquinavir. A starting dose of 25 mg of sildenafil should be considered in patients taking erythromycin or strong CYP3A4 inhibitors (such as saquinavir, ketoconazole, itraconazole) [see Dosage and Administration (2.4), Clinical Pharmacology (12.3)].

In a drug-drug interaction study sildenafil 50 mg given with alcohol 0.5 g/kg in which mean maximum blood alcohol levels of 0.08% was achieved, sildenafil did not potentiate the hypotensive effect of alcohol in healthy volunteers [see Clinical Pharmacology (12.2)]. 8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary Sildenafil is not indicated for use in females.

There are no data with the use of sildenafil in pregnant women to inform any drug-associated risks for adverse developmental outcomes. Animal reproduction studies conducted with sildenafil did not show adverse developmental outcomes when administered during organogenesis in rats and rabbits at oral doses up to 16 and 32 times, respectively, the maximum recommended human dose (MRHD) of 100 mg/day on a mg/m² basis (see Data).

No evidence of teratogenicity, embryotoxicity or fetotoxicity was observed in rats and rabbits which received oral doses up to 200 mg/kg/day during organogenesis. These doses represent, respectively, about 16 and 32 times the MRHD on a mg/m² basis in a 50 kg subject. In the rat pre-and postnatal development study, the no observed adverse effect dose was 30 mg/kg/day given for 36 days, about 2 times the MRHD on a mg/m² basis in a 50 kg subject.

Risk Summary Sildenafil is not indicated for use in females Limited data indicate that sildenafil and its active metabolite are present in human milk. There is no information on the effects on the breastfed child, or the effects on milk production.

8.4 PediatricUse Sildenafil is not indicated for use in pediatric patients. Safety and effectiveness have not been established in pediatric patients.

N-desmethyl metabolite were 45% and 57%, respectively [see Clinical Pharmacology (12.3)].

Healthy elderly volunteers (65 years or over) had a reduced clearance of sildenafil resulting in approximately 84% and 107% higher plasma AUC values of sildenafil and its active N-desmethyl metabolite, respectively, compared to those seen in healthy young volunteers (18-45 years) [see Clinical Pharmacology (12.3)]. Due to age-differences in plasma protein binding, the corresponding increase in the AUC of free (unbound) sildenafil and its active

Of the total number of subjects in clinical studies of sildenafil, 18% were 65 years and older, while 2% were 75 years and older. No overall differences in safety or efficacy were observed between older (\geq 65 years of age) and younger (< 65 years of age) subjects. However, since higher plasma levels may increase the incidence of adverse reactions, a starting dose of 25 mg should be considered in older subjects due

to the higher systemic exposure [see Dosage and Administration (2.5)]. No dose adjustment is required for mild (CLcr=50-80 mL/min) and moderate (CLcr=30-49 mL/min) renal impairment. In volunteers with severe renal

impairment (Clcr<30 mL/min), sildenafil clearance was reduced, resulting in higher plasma exposure of sildenafil (~2 fold), approximately doubling of C_{max} and AUC. A starting dose of 25 mg should be considered in patients with severe renal impairment [see Dosage and Administration (2.5) and Clinical 8.7 Hepatic Impairment

In volunteers with hepatic impairment (Child-Pugh Class A and B), sildenafil clearance was reduced, resulting in higher plasma exposure of sildenafil (47% Involutible S with repatic impariment (office Tught Class C) have not been studied. A starting dose of 25 mg should be considered in patients with any degree of hepatic impairment [see Dosage and Administration (2.5) and Clinical Control of 10 OVERDOSAGE

In studies with healthy volunteers of single doses up to 800 mg, adverse reactions were similar to those seen at lower doses but incidence rates and

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 it is not eliminated in the urine. 11 DESCRIPTION

Sildenafil tablets USP, an oral therapy for erectile dysfunction, is the citrate salt of sildenafil, a selective inhibitor of cyclic guanosine monophosphate (cGMP)-specific phosphodiesterase type 5 (PDE5). Sildenafil citrate. USP is designated chemically as 1-[[3-(6.7-dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo[4,3d]pyrimidin-5-yl)-4ethoxyphenyl]sulfonyl]-4-methylpiperazine citrate and has the fo

Sildenafil citrate. USP is a white to off-white crystalline powder with a solubility of 3.5 mg/mL in water and a molecular weight of 666.7

Sildenafil tablets USP are formulated as pale blue to blue film-coated tablets equivalent to 25 mg, 50 mg and 100 mg of sildenafil for oral administration. Sildenafil tablets 50 mg and 100 mg are caplet shaped whereas sildenafil tablets 25 mg are round shaped. In addition to the active ingredient, sildenafil citrate, each tablet contains the following inactive ingredients: colloidal silicon dioxide, croscarmellose sodium, dicalcium phosphate anhydrous, FD&C $Blue \# 2 \ a luminum \ lake, hypromellose, lactose monohydrate, magnesium \ stearate, microcrystalline \ cellulose, titanium \ dioxide \ and \ triacetin.$

12.1 Mechanism of Action

severities were increased.

The physiologic mechanism of erection of the penis involves release of nitric oxide (NO) in the corpus cavernosum during sexual stimulation. NO then activates the enzyme guanylate cyclase, which results in increased levels of cyclic guanosine monophosphate (cGMP), producing smooth muscle relaxation in the corpus cavernosum and allowing inflow of blood. Sildenafil enhances the effect of NO by inhibiting phosphodiesterase type 5 (PDE5), which is responsible for degradation of cGMP in the corpus cavernosum. Sildenafil has no direct relaxant effect on isolated human corpus cavernosum. When sexual stimulation causes local release of NO, inhibition of PDE5 by sildenafil causes increased levels of cGMP in the corpus cavernosum, resulting in smooth muscle relaxation and inflow of blood to the corpus cavernosum. Sildenafil at recommended doses has no effect in the absence of sexual stimulation.

Studies *in vitro* have shown that sildenafil is selective for PDE5. Its effect is more potent on PDE5 than on other known phosphodiesterases (10-fold for PDE6, >80-fold for PDE1, >700-fold for PDE2, PDE3, PDE4, PDE7, PDE8, PDE9, PDE10, and PDE11). Sildenaffil is approximately 4,000-fold more selection of PDE5 compared to PDE3. PDE3 is involved in control of cardiac contractility. Sildenaffil is only about 10-fold as potent for PDE5 compared to PDE5, enzyme found in the retina which is involved in the phototransduction pathway of the retina. This lower selectivity is thought to be the basis of abnormalities related to color vision [see Clinical Pharmacology (12.2)].

In addition to human corpus cavernosum smooth muscle, PDE5 is also found in other tissues including platelets, vascular and visceral smooth muscle, and skeletal muscle, brain, heart, liver, kidney, lung, pancreas, prostate, bladder, testis, and seminal vesicle. The inhibition of PDE5 in some of these tissues by sildenafil may be the basis for the enhanced platelet antiaggregatory activity of NO observed *in vitro*, an inhibition of platelet thrombus formation *in vivo* and peripheral arterial-venous dilatation *in vivo*.

Effects of sildenafil on Erectile Response: In eight double-blind, placebo-controlled crossover studies of patients with either organic or psychogenic erectile dysfunction, sexual stimulation resulted in improved erections, as assessed by an objective measurement of hardness and duration of erections (RigiScan[®]), after sildenafil administration compared with placebo. Most studies assessed the efficacy of sildenafil approximately 60 minutes post dose.

onse, as assessed by RigiScan[®], generally increased with increasing sildenafil dose and plasma concentration. The time course of effect was examined in one study, showing an effect for up to 4 hours but the response was dim Effects of sildenafil on Blood Pressure: Single oral doses of sildenafil (100 mg) administered to healthy volunteers produced decreases in sitting blood pressure (mean maximum decrease in systolic/diastolic blood pressure of 8.3/5.3 mmHg). The decrease in sitting blood pressure was most notable approximately 1-2 hours after dosing, and was not different than placebo at 8 hours. Similar effects on blood pressure were noted with 25 mg, 50 mg and

100 mg of sildenafil, therefore the effects are not related to dose or plasma levels within this dosage range. Larger effects were recorded among patier dications (4.1)]

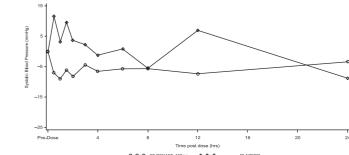


Figure 1: Mean Change from Baseline in Sitting Systolic Blood Pressure, Healthy Volunteers.

ing sildenafil, or other treatments for erectile dysfunction have not been studied. Such combinations may further lower blood pre

There have been postmarketing reports of bleeding events in patients who have taken sildenafil. A causal relationship between sildenafil and these events

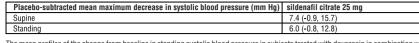
Administration of sildenafil with nitric oxide donors such as organic nitrates or organic nitrites in any form is contraindicated. Consistent with its known effects on the nitric oxide/cGMP pathway, sildenafil was shown to potentiate the hypotensive effects of nitrates [see Dosage and Administration (2.3), Contraindications (4.1), Clinical Pharmacology (12.2)].

Effects of sildenafil on Blood Pressure When Nitroglycerin is Subsequently Administered: Based on the pharmacokinetic profile of a single 100 mg oral dose given to healthy normal volunteers, the plasma levels of sildenafil at 24 hours post dose are approximately 2 ng/mL (compared to peak plasma levels of approximately 440 ng/mL). In the following patients: age >65 years, hepatic impairment (e.g., creatinine clearance <30 mL/min), and concomitant use of erythromycin or strong CYP3A4 inhibitors, plasma levels of sildenafil at 24 hours post dose have been found to be 3 to 8 times higher than those seen in healthy volunteers. Although plasma levels of sildenafil at 24 hours post dose are much lower than at peak concentration, it is unknown whether nitrates can be safely co-administered at this time point [see Contraindications (4.1)].

Effects of sildenafil on Blood Pressure When Co-administered with Alpha-Blockers: Three double-blind, placebo-controlled, randomized, two-way crossover studies were conducted to assess the interaction of sildenafil with doxazosin, an alpha-adrenergic blocking agent.

Study 1: Sitioenani with Doxazosin In the first study, a single oral dose of sildenafil 100 mg or matching placebo was administered in a 2-period crossover design to 4 generally healthy males with benign prostatic hyperplasia (BPH). Following at least 14 consecutive daily doses of doxazosin, sildenafil 100 mg or matching placebo was administered simultaneously with doxazosin. Following a review of the data from these first 4 subjects (details provided below), the sildenafil dose was reduced to 25 mg. Thereafter, 17 subjects were treated with sildenafil 25 mg or matching placebo in combination with doxazosin 4 mg (15 subjects) or doxazosin 8 mg (2 subjects). The mean subject age was 66.5 years.

For the 17 subjects who received sildenafil 25 mg and matching placebo, the placebo-subtracted mean maximum decreases from baseline (95% CI) in systolic blood pressure were as follows:



The mean profiles of the change from baseline in standing systolic blood pressure in subjects treated with doxazosin in combination with 25 mg sildenafil or matching placebo are shown in Figure 2.

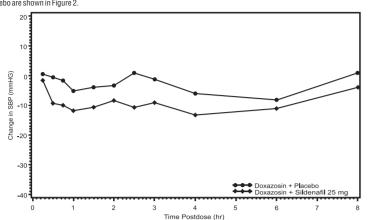


Figure 2: Mean Standing Systolic Blood Pressure Change from Baseline

Blood pressure was measured immediately pre-dose and at 15, 30, 45 minutes, and 1, 1.5, 2, 2.5, 3, 4, 6 and 8 hours after sildenafil or matching placebo Outliers were defined as subjects with a standing systolic blood pressure of .85 mmHg or a decrease from baseline in standing systolic blood pressure of .85 mmHg at one or more timepoints. There were no subjects treated with sildenafil 25 mg who had a standing SBP < 85mmHg. There were three subjects with a decrease from baseline in standing systolic BP > 30 mmHg following placebo and two subjects with a decrease from baseline in standing systolic BP > 30 mmHg following placebo and two subjects with a decrease from baseline in standing systolic BP > 30 mmHg following placebo and two subjects with a decrease from baseline in standing systolic BP > 30 mmHg following placebo and two subjects with a decrease from baseline in standing systolic BP > 30 mmHg following both sildenafil and placebo. No severe adverse events potentially related to blood pressure effects were reported in this group.

Of the four subjects who received sildenafil 100 mg in the first part of this study, a severe adverse event related to blood pressure effect was reported in one patient (postural hypotension that began 35 minutes after dosing with sildenafil with symptoms lasting for 8 hours), and mild adverse events potentially related to blood pressure effects were reported in two others (dizziness, headache and fatigue at 1 hour after dosing; and dizziness, lightheadedness and nausea at 4 hours after dosing). There were no reports of syncope among these patients. For these four subjects, the placebo-subtracted mean maximum decreases from baseline in supine and standing systolic blood pressures were 14.8 mmHg, and 21.5 mmHg, respectively. Two of these subjects had a standing SBP < 85mmHg. Both of these subjects were protocol violators, one due to a low baseline standing SBP, and the other due to baseline orthostatic hypotension.

In the second study, a single oral dose of sildenafil 50 mg or matching placebo was administered in a 2-period crossover design to 20 generally healthy males with BPH. Following at least 14 consecutive days of doxazosin, sildenafil 50 mg or matching placebo was administered simultaneously with doxazosin 4 mg (17 subjects) or with doxazosin 8 mg (3 subjects). The mean subject age in this study was 63.9 years

Twenty subjects received sildenafil 50 mg, but only 19 subjects received matching placebo. One patient discontinued the study prematurely due to an adverse event of hypotension following dosing with sildenafil 50 mg. This patient had been taking minoxidil, a potent vasodilator, during the study.

For the 19 subjects who received both sildenafil and matching placebo, the placebo-subtracted mean maximum decreases from baseline (95% CI) in systolic blood pressure were as follows:

Placebo-subtracted mean maximum decrease in systolic blood pressure (mm Hg) sildenafil citrate 50 mg (95% Cl) 9.08 (5.48, 12.68) Supine The mean profiles of the change from baseline in standing systolic blood pressure in subjects treated with doxazosin in combination with 50 mg sildenafil or matching placebo are shown in Figure 3.

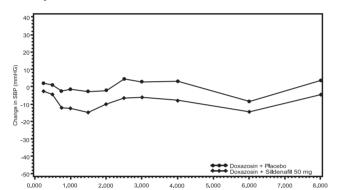


Figure 3: Mean Standing Systolic Blood Pressure Change from Baseline

Blood pressure was measured after administration of sildenafil at the same times as those specified for the first doxazosin study. There were two subjects who had a standing SBP of < 85 mmHg. In these two subjects, hypotension was reported as a moderately severe adverse event, beginning at approxi 1 hour after administration of sildenafil 50 mg and resolving after approximately 7.5 hours. There was one subject with a decrease from baseline in st systolic BP > 30 mmHg following sildenafil 50 mg and one subject with a decrease from baseline in st systolic BP > 30 mmHg following sildenafil 50 mg and one subject with a decrease from baseline in st standing systolic BP > 30 mmHg following sildenafil 50 mg and placebo. There were no severe adverse events potentially related to blood pressure and no episodes of syncope reported in this study.

Study 3: Sildenatil with Doxazosin
In the third study, a single oral dose of sildenafil 100 mg or matching placebo was administered in a 3-period crossover design to 20 generally healthy males with BPH. In dose period 1, subjects were administered open-label doxazosin and a single dose of sildenafil 50 mg simultaneously, after at least 14 consecutive days of doxazosin. If a subject did not successfully complete this first dosing period, he was discontinued from the study. Subjects who had successfully completed the previous doxazosin interaction study (using sildenafil 50 mg), including no significant hemodynamic adverse events, were allowed to skip dose period 1. Theratment with doxazosin continued for at least 7 days after dose period 1. Theratment with doxazosin continued for at least 7 days after dose period 1. Theratment with doxazosin 4 mg (14 subjects) or doxazosin 8 mg (6 subjects) in standard crossover fashion. The mean subject age in this study was 66.4 years.

Twenty-five subjects were screened. Two were discontinued after study period 1: one failed to meet pre-dose screening qualifications and the other experienced symptomatic hypotension as a moderately severe adverse event 30 minutes after dosing with open-label sildenafil 50 mg. Of the twenty subjects who were ultimately assigned to treatment, a total of 13 subjects successfully completed dose period 1, and seven had successfully completed the previous doxazosin study (using sildenafil 50 mg).

For the 20 subjects who received sildenafil 100 mg and matching placebo, the placebo-subtracted mean maximum decreases from baseline (95% CI) in systolic blood pressure were as follows

oupine	7.9 (4.0, 11.1)
Standing	4.3 (-1.8,10.3)
e mean profiles of the change from baseline in standing systolic l matching placebo are shown in Figure 4.	blood pressure in subjects treated with doxazosin in combination with 100 mg sil
40	
30 -	
20 -	
10 -	
0 ·	0
-10	0
-20 -	
-30 -	●●● Doxazosin + Sildenafil 100 mg ○ ○ 0 Doxazosin + Placebo

Placebo-subtracted mean maximum decrease in systolic blood pressure (mm Hg) sildenafil citrate 100 mg

Figure 4: Mean Standing Systolic Blood Pressure Change from Baseline

Blood pressure was measured after administration of sildenafil at the same times as those specified for the previous doxazosin studies. There were three brook pressure was ineasured and animistration of single and the same linkes as inches specified to the previous dozacism studies. There were taking sidenafil 100 mg, and all three reported mild adverse events at the time of reductions in standing SBP, including vasodilation and lightheadedness. There were four subjects with a decrease from baseline in standing systolic BP > 30 mmHg following sildenafil 100 mg, one subject with a decrease from baseline in standing systolic BP > 30 mmHg following placebo and one subject with a decrease from baseline in standing systolic BP > 30 mmHg following placebo and one subject with a decrease from baseline in standing systolic BP > 30 mmHg following both sildenafil and placebo. While there were no severe adverse events potentially related to blood pressure reported in this study, one subject reported moderate vasodilatation after both sildenafil 50 mg and 100 mg. There were no episodes of syncope reported in this study.

Effect of sildenafil on Blood Pressure When Co-administered with Anti-hypertensives: When sildenafil 100 mg oral was co-admin amlodipine, 5 mg or 10 mg oral, to hypertensive patients, the mean additional reduction on supine blood pressure was 8 mmHg systolic and 7 mmHg diastolic.

Effect of sildenafil on Blood Pressure When Co-administered with Alcohol: sildenafil (50 mg) did not potentiate the hypotensive effect of alcohol (0.5 g/kg) in healthy volunteers with mean maximum blood alcohol levels of 0.08%. The maximum observed decrease in systolic blood pressure was -18.5 mmHg when sildenafil was co-administered with alcohol versus -17.4 mmHg when alcohol was administered alone. The maximum observed decrease in diastolic blood pressure was -17.2 mmHg when alcohol was administered alone. The maximum observed decrease in mHg when alcohol was administered alone. The maximum observed decrease in mHg when alcohol was administered alone. The maximum observed decrease in systolic blood pressure was -17.2 mmHg when alcohol was administered alone. The maximum observed decrease in systolic blood pressure was -17.4 mmHg when alcohol was administered alone. The maximum observed decrease in systolic blood pressure was -18.5 mmHg when alcohol was administered alone. The maximum observed decrease in systolic blood pressure was -18.5 mmHg when alcohol was administered alone. The maximum observed decrease in systolic blood pressure was -18.5 mmHg when alcohol was administered alone. The maximum observed decrease in systolic blood pressure was -18.5 mmHg when alcohol was administered alone. The maximum observed decrease in systolic blood pressure was -18.5 mmHg when alcohol was administered alone. The maximum observed decrease in systolic blood pressure was -18.5 mmHg when alcohol was administered alone. study [see Drug Interactions (7.5)].

Effects of sildenafil on Cardiac Parameters: Single oral doses of sildenafil up to 100 mg produced no clinically relevant changes in the ECGs of normal

Studies have produced relevant data on the effects of sildenafii on cardiac output. In one small, open-label, uncontrolled, pilot study, eight patients with stable ischemic heart disease underwent Swan-Ganz catheterization. A total dose of 40 mg sildenafil was administered by four intravenous infusions.

baseline in these patients. Mean resting values for right atrial pressure, pulmonary artery pressure, pulmonary artery occluded pressure and cardiac output decreased by 28%, 28%, 20% and 7% respectively. Even though this total dosage produced plasma sildenafil concentrations which were approximately 2 to 5 times higher than the mean maximum plasma concentrations following a single oral dose of 100 mg in healthy male volunteers, the hemodynamic response to exercise was preserved in these patients. The results from this pilot study are shown in Table 3; the mean resting systolic and diastolic blood pressures decreased by 7% and 10% compared to

Table 3. Hemodynamic Data in Patients with Stable Ischemic Heart Disease after Intravenous Administration of 40 mg of Sildenafii

Means ±SD	At rest				After 4 minutes of exercise			
	N	Baseline (B2)	n	Sildenafil (D1)	n	Baseline	n	Sildenafil
PAOP (mmHg)	8	8.1 ± 5.1	8	6.5 ± 4.3	8	36.0 ± 13.7	8	27.8 ± 15.3
Mean PAP (mmHg)	8	16.7 ± 4	8	12.1 ± 3.9	8	39.4 ± 12.9	8	31.7 ± 13.2
Mean RAP (mmHg)	7	5.7 ± 3.7	8	4.1 ± 3.7	-	-	-	
Systolic SAP (mmHg)	8	150.4 ± 12.4	8	140.6 ± 16.5	8	199.5 ± 37.4	8	187.8 ± 30.0
Diastolic SAP (mmHg)	8	73.6 ± 7.8	8	65.9 ± 10	8	84.6 ± 9.7	8	79.5 ± 9.4
Cardiac output (L/min)	8	5.6 ± 0.9	8	5.2 ± 1.1	8	11.5 ± 2.4	8	10.2 ± 3.5
Heart rate (bpm)	8	67 ± 11.1	8	66.9 ± 12	8	101.9 ± 11.6	8	99.0 ± 20.4

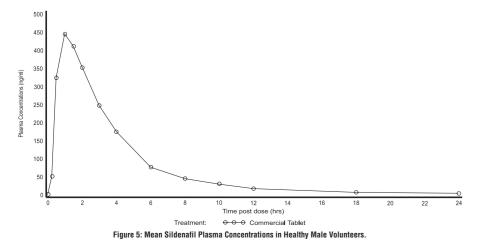
In a double-blind study, 144 patients with erectile dysfunction and chronic stable angina limited by exercise, not receiving chronic oral nitrates, were randomized to a single dose of placebo or sildenafil 100 mg 1 hour prior to exercise testing. The primary endpoint was time to limiting angina in the evaluable cohort. The mean times (adjusted for baseline) to onset of limiting angina were 423.6 and 403.7 seconds for sildenafil (N=70) and placebo, respectively. These results demonstrated that the effect of sildenafil on the primary endpoint was statistically non-inferior to placebo.

Effects of sildenafil on Vision: At single oral doses of 100 mg and 200 mg, transient dose-related impairment of color discrimination was detected using the Farnsworth-Munsell 100-hue test, with peak effects near the time of peak plasma levels. This finding is consistent with the inhibition of PDE6, which is involved in phototransduction in the retina. Subjects in the study reported this finding as difficulties in discriminating blue/green. An evaluation of visual function at doses up to twice the maximum recommended dose revealed no effects of sildenafil on visual aculty, intraocular pressure, or pupillometry. Effects of sildenafil on Sperm: There was no effect on sperm motility or morphology after single 100 mg oral doses of sildenafil in healthy volunteers

12.3 Pharmacokinetics

Sildenafil is rapidly absorbed after oral administration, with a mean absolute bioavailability of 41% (range 25-63%). The pharmacokinetics of sildenafil are dose-proportional over the recommended dose range. It is eliminated predominantly by hepatic metabolism (mainly CYP3A4) and is converted to an active metabolite with properties similar to the parent, sildenafil. Both sildenafil and the metabolite have terminal half lives of about 4 hours.

Mean sildenafil plasma concentrations measured after the administration of a single oral dose of 100 mg to healthy male volunteers is depicted below



Absorption and Distribution: Sildenafil is rapidly absorbed. Maximum observed plasma concentrations are reached within 30 to 120 minutes (median 60 minutes) of oral dosing in the fasted state. When sildenafil is taken with a high fat meal, the rate of absorption is reduced, with a mean delay in $T_{\rm gas}$ of 60 minutes and a mean reduction in $C_{\rm gas}$ of 29%. The mean steady state volume of distribution (Vss) for sildenafil is 105 L, indicating distribution into the tissues. Sildenafil and its major circulating N-desmethyl metabolite are both approximately 96% bound to plasma proteins. Protein binding is independent of total drug concentrations.

Based upon measurements of sildenafil in semen of healthy volunteers 90 minutes after dosing, less than 0.001% of the administered dose may appear in the semen of patients. Metabolism and Excretion: Sildenafil is cleared predominantly by the CYP3A4 (major route) and CYP2C9 (minor route) hepatic microsomal isoenzyme:

The major circulating metabolite results from N-desmethylation of sildenafil, and is itself further metabolized. This metabolite has a PDE selectivity profile similar to sildenafil and an *in vitro* potency for PDE5 approximately 50% of the parent drug. Plasma concentrations of this metabolite are approximately 40% of those seen for sildenafil, so that the metabolite accounts for about 20% of sildenafil's pharmacologic effects.

After either oral or intravenous administration, sildenafil is excreted as metabolites predominantly in the feces (approximately 80% of administered oral dose) and to a lesser extent in the urine (approximately 13% of the administered oral dose). Similar values for pharmacokinetic parameters were seen in normal volunteers and in the patient population, using a population pharmacokinetic approach.

Geriatrics: Healthy elderly volunteers (65 years or over) had a reduced clearance of sildenafil, resulting in approximately 84% and 107% higher plasma AUC values of sildenafil and its active N-desmethyl metabolite, respectively, compared to those seen in healthy younger volunteers (18-45 years). Due to age-differences in plasma protein binding, the corresponding increase in the AUC of free (unbound) sildenafil and its active N-desmethyl metabolite were 45% and 57%, respectively [see Dosage and Administration (2.5), and Use in Specific Populations (8.5)]

Renal Impairment: In volunteers with mild (CLcr=50-80 mL/min) and moderate (CLcr=30-49 mL/min) renal impairment, the pharmacokinetics of a single oral dose of sildenafil (50 mg) were not altered. In volunteers with severe (CLcr <30 mL/min) renal impairment, sildenafil clearance was reduced, resulting in approximately doubling of AUC and C must compared to age-matched volunteers with no renal impairment [see Dosage and Administration (2.5), and Use in Secretic Populations (4 61)

In addition, N-desmethyl metabolite AUC and C_{max} values significantly increased by 200% and 79%, respectively in subjects with severe renal impairment

Hepatic Impairment: In volunteers with hepatic impairment (Child-Pugh Class A and B), sildenafil clearance was reduced, resulting in increases in AUC (85%) and C_{max} (47%) compared to age-matched volunteers with no hepatic impairment. The pharmacokinetics of sildenafil in patients with severely

impaired hepatic function (Child-Pugh Class C) have not been studied [see Dosage and Administration (2.5), and Use in Specific Populations (8.7)]. Therefore, age >65, hepatic impairment and severe renal impairment are associated with increased plasma levels of sildenafil. A starting oral dose of 25 mg should be considered in those patients [see Dosage and Administration (2.5)].

Pharmacokinetics in Special Populations

Effects of Other Drugs on sildenafil Sildenafil metabolism is principally mediated by CYP3A4 (major route) and CYP2C9 (minor route). Therefore, inhibitors of these isoenzymes may reduce sildenafil clearance and inducers of these isoenzymes may increase sildenafil clearance. The concomitant use of erythromycin or strong CYP3A4 inhibitors (e.g., saquinavir, ketoconazole, itraconazole) as well as the nonspecific CYP inhibitor, cimetidine, is associated with increased plasma levels of sildenafil

In vivo studies Cimetidine (800 mg), a nonspecific CYP inhibitor, caused a 56% increase in plasma sildenafil concentrations when co-administered with sildenafil (50 mg)

When a single 100 mg dose of sildenafil was administered with erythromycin, a moderate CYP3A4 inhibitor, at steady state (500 mg bid for 5 days), there was a 160% increase in sildenafil C_{ma} and a 182% increase in sildenafil AUC. In addition, in a study performed in healthy male volunteers, co-administration of the HIV protease inhibitor saquinavir, also a CYP3A4 inhibitor, at steady state (1200 mg tid) with sildenafil (100 mg single dose) resulted in a 140% increase in sildenafil AUC. Sildenafil AuC sildenafil AUC. Sildenafil AuC sildenaf clinical trials also indicated a reduction in sildenafil clearance when it was co-administered with CYP3A4 inhibitors (such as ketoconazole, erythromycin, or

cimetidine) [see Dosage and Administration (2.4) and Drug Interactions (7.4)]. In another study in healthy male volunteers, co-administration with the HIV protease inhibitor ritonavir, which is a highly potent P450 inhibitor, at steady state (500 mg bid) with sildenafil (100 mg single dose) resulted in a 300% (4-fold) increase in sildenafil 0 and a 1000% (11-fold) increase in sildenafil plasma AUC. At 24 hours the plasma levels of sildenafil were still approximately 200 ng/mL, compared to approximately 5 ng/mL when sildenafil was dosed alone. This is consistent with ritonavir's marked effects on a broad range of P450 substrates. Sildenafil had no effect on ritonavir pharmacokinetics [see Dosane and Administration (2.4) and Puru Interactions (7.4)]

Dosage and Administration (2.4) and Drug Interactions (7.4)]. Although the interaction between other protease inhibitors and sildenafil has not been studied, their concomitant use is expected to increase sildenafil

In a study of healthy male volunteers, co-administration of sildenafil at steady state (80 mg t.i.d.) with endothelin receptor antagonist bosentan (a moderate inducer of CYP3A4, CYP2C9 and possibly of CYP2C19) at steady state (125 mg b.i.d.) resulted in a 63% decrease of sildenafil AuC and a 55% decrease in sildenafil C_{max}. Concomitant administration of strong CYP3A4 inducers, such as rifampin, is expected to cause greater decreases in plasma levels of

Single doses of antacid (magnesium hydroxide/aluminum hydroxide) did not affect the bioavailability of sildenafil. In healthy male volunteers, there was no evidence of a clinically significant effect of azithromycin (500 mg daily for 3 days) on the systemic exposure of

sildenafil or its major circulating metabolite.

CYP2D6 inhibitors (such as selective serotonin reuptake inhibitors, tricyclic antidepressants), thiazide and related diuretics, ACE inhibitors, and calcium channel blockers. The AUC of the active metabolite, N-desmethyl sildenafil, was increased 62% by loop and potassium-sparing diuretics and 102% by nonspecific beta-blockers. These effects on the metabolite are not expected to be of clinical consequence.

In vitro studies:

Sildenafil is a weak inhibitor of the CYP isoforms 1A2, 2C9, 2C19, 2D6, 2E1 and 3A4 (IC50 >150 μ M). Given sildenafil peak plasma concentrations of approximately 1 μ M after recommended doses, it is unlikely that sildenafil will alter the clearance of substrates of these isoenzymes.

No significant interactions were shown with tolbutamide (250 mg) or warfarin (40 mg), both of which are metabolized by CYP2C9.

In a study of healthy male volunteers, sildenafil (100 mg) did not affect the steady state pharmacokinetics of the HIV protease inhibitors, saquinavir and ritonavir, both of which are CYP3A4 substrates.

Sildenafil (50 mg) did not potentiate the increase in bleeding time caused by aspirin (150 mg).

Sildenafil at steady state, at a dose not approved for the treatment of erectile dysfunction (80 mg t.i.d.) resulted in a 50% increase in AUC and a 42% increase in C_{max} of bosentan (125 mg b.i.d.).

13 NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis
Sildenafil was not carcinogenic when administered to rats for 24 months at a dose resulting in total systemic drug exposure (AUCs) for unbound sildenafil
and its major metabolite of 20- and 38- times, for male and female rats, respectively, the exposures observed in human males given the Maximum
Recommended Human Dose (MRHD) of 100 mg. Sildenafil was not carcinogenic when administered to mice for 18-21 months at dosages up to the
Maximum Tolerated Dose (MTD) of 10 mg/kg/day, approximately 0.4 times the MRHD on a mg/m² basis in a 50 kg subject.

Mutagenesis
Sildenafil was negative in in vitro bacterial and Chinese hamster ovary cell assays to detect mutagenicity, and in vitro human lymphocytes and in vivo mouse

Impairment of Fertility
There was no impairment of fertility in rats given sildenafil up to 60 mg/kg/day for 36 days to females and 102 days to males, a dose producing an AUC value of more than 25 times the human male AUC.

14 CLINICAL STUDIES

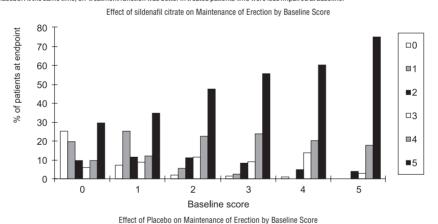
In clinical studies, sildenafil was assessed for its effect on the ability of men with erectile dysfunction (ED) to engage in sexual activity and in many cases specifically on the ability to achieve and maintain an erection sufficient for satisfactory sexual activity. Sildenafil was evaluated primarily at doses of 25 mg, 50 mg and 100 mg in 21 randomized, double-blind, placebo-controlled trials of up to 6 months in duration, using a variety of study designs (fixed dose, tritation, parallel, crossover). Sildenafil was administered to more than 3,000 patients aged 19 to 87 years, with ED of various etiologies (organic, psychogenic, mixed) with a mean duration of 5 years. Sildenafil demonstrated statistically significant improvement compared to placebo in all 21 studies. The studies that established benefit demonstrated improvements in success rates for sexual intercourse compared with placebo.

Efficacy Endpoints in Controlled Clinical Studies
The effectiveness of sildenafil was evaluated in most studies using several assessment instruments. The primary measure in the principal studies was a sexual function questionnaire (the International Index of Erectile Function - IIEF) administered during a 4-week treatment-free run-in-period, at baseline, at sexual function questionnaire (the international index of Erectule Function - IEEF) administered ourling 4 - 4-week treatment-free run-in period, at baseline, at follow-up visits, and at the end of double-blind, placebo-controlled, at-home treatment. Two of the questions from the IEEF served as primary study endpoints; categorical responses were elicited to questions about (1) the ability to achieve erections sufficient for sexual intercourse and (2) the maintenance of erections after penetration. The patient addressed both questions at the final visit for the last 4 weeks of the study. The possible categorical responses to these questions were (0) no attempted intercourse, (1) never or almost never, (2) a few times, (3) sometimes, (4) most times, and (5) almost always or always. Also collected as part of the IEEF was information about other aspects of sexual function, including information on erectile function, orgasm, desire, satisfaction with intercourse, and overall sexual satisfaction. Sexual function data were also recorded by patients in a daily diary. In

Efficacy Results from Controlled Clinical Studies

The effect on one of the major end points, maintenance of erections after penetration, is shown in Figure 6, for the pooled results of 5 fixed-dose, dose-response studies of greater than one mointh duration, showing response according to baseline function. Results with all doses have been pooled, but scores showed greater improvement at the 50 and 100 mg doses than at 25 mg. The pattern of responses was similar for the other principal question, the ability to achieve an erection sufficient for intercourse. The titration studies, in which most patients received 100 mg, showed similar results. Figure 6 that the transfer of the benefits all the first produced for the control of the produced for the control of the produced for the produced for the control of the produced for the pr shows that regardless of the baseline levels of function, subsequent function in patients treated with sildenafil was better than that seen in patients treated with placebo. At the same time, on-treatment function was better in treated patients who were less impaired at baseline.

addition, patients were asked a global efficacy question and an optional partner questionnaire was administered



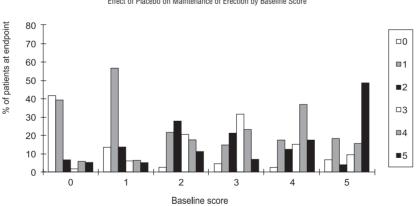
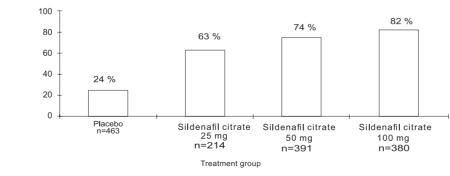


Figure 6. Effect of sildenafil and Placebo on Maintenance of Erection by Baseline Score. The frequency of patients reporting improvement of erections in response to a global question in four of the randomized, double-blind, parallel, placebo-

The frequency of patients reporting improvement of erections in response to a global question in four of the randomized, double-blind, parallel, placebo-controlled fixed dose studies (1797 patients) of 12 to 24 weeks duration is shown in Figure 7. These patients had erectile dysfunction at baseline that was characterized by median categorical scores of 2 (a few times) on principal IIEF questions. Erectile dysfunction was attributed to organic (58%; generally not characterized, but including diabetes and excluding spinal cord injury), psychogenic (17%), or mixed (24%) etiologies. Sixty-three percent, 74%, and 82% of the patients on 25 mg, 50 mg and 100 mg of sildenafil, respectively, reported an improvement in their erections, compared to 24% on placebo. In the titration studies (n=644) (with most patients eventually receiving 100 mg), results were similar.



Overall treatment p<0.0001 Figure 7. Percentage of Patients Reporting an Improvement in Erections.

The patients in studies had varying degrees of ED. One-third to one-half of the subjects in these studies reported successful intercourse at least once during In many of the studies, of both fixed dose and titration designs, daily diaries were kept by patients. In these studies, involving about 1600 patients, analyses

of patient diaries showed no effect of sildenafil on rates of attempted intercourse (about 2 per week), but there was clear treatment-related improvement in sexual function; per patient weekly success rates averaged 1.3 on 50-100 mg of sildenafil vs 0.4 on placebo; similarly, group mean success rates (total successes divided by total attempts) were about 66% on sildenafil vs about 20% on placebo.

During 3 to 6 months of double-blind treatment or longer-term (1 year), open-label studies, few patients withdrew from active treatment for any reason, including lack of effectiveness. At the end of the long-term study, 88% of patients reported that sildenafil improved their erections

Men with untreated ED had relatively low baseline scores for all aspects of sexual function measured (again using a 5-point scale) in the IIEF. Sildenafil improved these aspects of sexual function: frequency, firmness and maintenance of erections; frequency of orgasm; frequency and level of desire; frequency, satisfaction and enjoyment of intercourse; and overall relationship satisfaction.

One randomized, double-blind, flexible-dose, placebo-controlled study included only patients with erectile dysfunction attributed to complications of diabetes mellitus (n=268). As in the other titration studies, patients were started on 50 mg and allowed to adjust the dose up to 100 mg or down to 25 mg of sildenafil; all patients, however, were receiving 50 mg or 100 mg at the end of the study. There were highly statistically significant improvements on the two principal IIEF questions (frequency of successful penetration during sexual activity and maintenance of erections after penetration) on sildenafil compared to placebo. On a global improvement question, 57% of sildenafil patients reported improved erections versus 10% on placebo. Diary data indicated that on sildenafil (AUM). sildenafil, 48% of intercourse attempts were successful versus 12% on placebo.

One randomized, double-blind, placebo-controlled, crossover, flexible-dose (up to 100 mg) study of patients with erectile dysfunction resulting from spinal cord injury (n=178) was conducted. The changes from baseline in scoring on the two end point questions (frequency of successful penetration during sexual activity and maintenance of erections after penetration) were highly statistically significantly in favor of sildenafil. On a global improvement question, 83% of patients reported improved erections on sildenafil versus 12% on placebo. Diary data indicated that on sildenafil, 59% of attempts at sexual intercourse were successful compared to 13% on placebo.

Across all trials, sildenafil improved the erections of 43% of radical prostatectomy patients compared to 15% on placebo

Subgroup analyses of responses to a global improvement question in patients with psychogenic etiology in two fixed-dose studies (total n=149) showed 84% of sildenafil patients reported improvement in erections compared with 26% of placebo. The changes from baseline in scoring on the two end point questions (frequency of successful penetration during sexual activity and maintenance of erections after penetration) were highly statistically significantly in favor of sildenafil. Diary data in two of the studies (n=178) showed rates of successful intercourse per attempt of 70% for sildenafil and 29% for placebo.

Efficacy Results in Subpopulations in Controlled Clinical Studies
A review of population subgroups demonstrated efficacy regardless of baseline severity, etiology, race and age. Sildenafil was effective in a broad range of ED patients, including those with a history of coronary artery disease, hypertension, other cardiac disease, peripheral vascular disease, diabetes mellitus, depression, coronary artery bypass graft (CABG), radical prostatectomy, transurethral resection of the prostate (TURP) and spinal cord injury, and in patients taking antidepressants/antipsychotics and anti-hypertensives/diuretics.

16 HOW SUPPLIED/STORAGE AND HANDLING

Sildenafil tablets USP are supplied as pale blue to blue, film-coated tablets containing sildenafil citrate equivalent to the nominally indicated amount of sildenafil as follows:

For 100 mg - Pale blue to blue, caplet shaped film-coated tablets, debossed with '1A1' on one side and plain on other side. For 50 mg - Pale blue to blue, caplet shaped film-coated tablets, debossed with '1A2' on one side and plain on other side

NDC 60290-079-03

For 25 mg - Pale blue to blue, round film-coated tablets, debossed with "25" on one side and "SL" on other side NDC 60290-079-01 NDC 60290-003-01 Bottle of 90 tablets NDC 60290-079-02 Bottle of 100 tablets NDC 60290-002-02 NDC 60290-003-02 Bottle of 500 tablets NDC 60290-002-04 NDC 60290-003-04

NDC 60290-002-03

NDC 60290-003-03

Recommended Storage: Store at 25°C (77°F); excursions permitted within 15-30°C (59-86°F) [see USP Controlled Room Temperature]

$Advise the \ patient \ to \ read \ the \ FDA-approved \ patient \ labeling \ (Patient \ Information)$

Physicians should discuss with patients the contraindication of sildenafil with regular and/or intermittent use of nitric oxide donors, such as organic nitrates or organic nitrites in any form [see Contraindications (4.1)].

Guanylate Cyclase (GC) Stimulators Physicians should discuss with patients the contraindication of sildenafil with use of guanylate cyclase stimulators such as riociguat [see Contraindications (4.3)].

${\bf Concomitant\, Use\, with\, Drugs\, Which\, Lower\, Blood\, Pressure}$

Physicians should advise patients of the potential for sildenafil to augment the blood pressure lowering effect of alpha-blockers and anti-hypertensive medications. Concomitant administration of sildenafil and an alpha-blocker may lead to symptomatic hypotension in some patients. Therefore, when sildenafil is co-administered with alpha-blockers, patients should be stable on alpha-blocker therapy prior to initiating sildenafil treatment and sildenafil should be initiated at the lowest dose [see Warnings and Precautions (5.5)].

Physicians should discuss with patients the potential cardiac risk of sexual activity in patients with preexisting cardiovascular risk factors. Patients who experience symptoms (e.g., angina pectoris, dizziness, nausea) upon initiation of sexual activity should be advised to refrain from further activity and should discuss the episode with their physician [see Warnings and Precautions (5.1)].

Bottle of 1000 tablets

Physicians should advise patients to stop use of all PDE5 inhibitors, including sildenafil, and seek medical attention in the event of a sudden loss of vision in one or both eyes. Such an event may be a sign of non-arteritic anterior ischemic optic neuropathy (NAION), a cause of decreased vision including possible permanent loss of vision, that has been reported rarely post-marketing in temporal association with the use of all PDE5 inhibitors. Physicians should discuss with patients the increased risk of NAION in individuals who have already experienced NAION in one eye. Physicians should also discuss with patients the increased risk of NAION among the general population in patients with a "crowded" optic disc, although evidence is insufficient to support

screening of prospective users of PDE5 inhibitor, including sildenafil, for this uncommon condition [see Warnings and Precautions (5.3) and Adverse Reactions (6.2)].

Physicians should advise patients to stop taking PDE5 inhibitors, including sildenafil, and seek prompt medical attention in the event of sudden decrease or loss of hearing. These events, which may be accompanied by tinnitus and dizziness, have been reported in temporal association to the intake of PDE5 inhibitors, including sildenafil. It is not possible to determine whether these events are related directly to the use of PDE5 inhibitors or to other factors [see Warnings and Precautions (5.4) and Adverse Reactions (6.2).

Physicians should warn patients that prolonged erections greater than 4 hours and priapism (painful erections greater than 6 hours in duration) have been reported infrequently since market approval of sildenafil. In the event of an erection that persists longer than 4 hours, the patient should seek immediate medical assistance. If priapism is not treated immediately, penile tissue damage and permanent loss of potency may result [see Warnings and Precautions

Physicians should inform patients not to take sildenafil tablets with other PDE5 inhibitors including REVATIO or other pulmonary arterial hypertension (PAH) treatments containing sildenafil. Sildenafil is also marketed as REVATIO for the treatment of PAH. The safety and efficacy of sildenafil tablets with other PDE5 inhibitors, including REVATIO, have not been studied [see Warnings and Precautions (5.7)].

The use of sildenafil offers no protection against sexually transmitted diseases. Counseling of patients about the protective measures necessary to guard against sexually transmitted diseases, including the Human Immunodeficiency Virus (HIV), may be considered [see Warnings and Precautions (5.9)].

Manufactured by: Umedica Laboratories Pvt. Ltd. Plot No. 221 and 221/1, GIDC, IInd Phase, Vapi, Gujarat 396195, INDIA (IND)

Revised: November 2023, V-04

Sildenafil (sil den¢ a fil) Tablets USP

What is the most important information I should know about sildenafil tablets?

Sildenafil tablets can cause your blood pressure to drop suddenly to an unsafe level if it is taken with certain other medicines. Do not take sildenafil tablets if you take any other medicines called "nitrates." Nitrates are used to treat chest pain (angina). A sudden drop in blood pressure can cause you to feel

Do not take sildenafil tablets if you take medicines called guanylate cyclase stimulators which include:

Riociguat (Adempas®) a medicine that treats pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension.

Tell all your healthcare providers that you take sildenafil tablets. If you need emergency medical care for a heart problem, it will be important for your healthcare provider to know when you last took sildenafil tablets.

 $Stop\ sexual\ activity\ and\ get\ medical\ help\ right\ away\ if\ you\ get\ symptoms\ such\ as\ chest\ pain,\ dizziness,\ or\ nause\ a\ during\ sex.$ Sexual activity can put an extra strain on your heart, especially if your heart is already weak from a heart attack or heart disease. Ask your doctor if your heart

is healthy enough to handle the extra strain of having sex. Sildenafil tablets does not protect you or your partner from getting sexually transmitted diseases, including HIV-the virus that causes AIDS

Sildenafil tablets are a prescription medicine used to treat erectile dysfunction (ED). You will not get an erection just by taking this medicine. Sildenafil tablets helps a man with erectile dysfunction get and keep an erection only when he is sexually excited (stimulated).

It is not known if sildenafil tablets are safe and effective in women or children under 18 years of age

Who should not take sildenafil tablets?

take medicines called nitrates (such as nitroglycerin)

take any medicines called guanylate cyclase stimulators such as riociguat (Adempas) are allergic to sildenafil, as contained in sildenafil tablets and REVATIO, or any of the ingredients in sildenafil tablets. See the end of this leaflet for a complete list of ingredients in sildenafil tablets.

$What should I tell \, my \, health care \, provider \, before \, taking \, silden a fill \, tablets?$

Before you take sildenafil tablets, tell your healthcare provider if you: have or have had heart problems such as a heart attack, irregular heartbeat, angina, chest pain, narrowing of the agrtic valve or heart failure

have had heart surgery within the last 6 months have pulmonary hypertension have had a stroke have low blood pressure, or high blood pressure that is not controlled

have a deformed penis shape have had an erection that lasted for more than 4 hours have problems with your blood cells such as sickle cell anemia, multiple myeloma, or leukemia

have retinitis pigmentosa, a rare genetic (runs in families) eye disease have ever had severe vision loss, including an eye problem called non-arteritic anterior ischemic optic neuropathy (NAION) have bleeding problems have or have had stomach ulcers

have liver problems have kidney problems or are having kidney dialysis have any other medical conditions

Tell your healthcare provider about all the medicines you take*, including prescription and over-the-counter medicines, vitamins, and herbal

Sildenafil tablets may affect the way other medicines work, and other medicines may affect the way sildenafil tablets works causing side effects. Especially medicines called nitrates (see "What is the most important information I should know about sildenafil tablets?")

medicines called jumplate cyclase stimulators, such as riocipuat (Adempas)
medicines called guanylate cyclase stimulators, such as riocipuat (Adempas)
medicines called alpha blockers such as Hytrin (terazosin HCI), Homax (tamsulosin HCI), Cardura (doxazosin mesylate), Minipress (prazosin HCI),
Uroxatral (alfuzosin HCI), Jalyn (dutasteride and tamsulosin HCI), prapaflo (silodosin). Alpha-blockers are sometimes prescribed for prostate
problems or high blood pressure. In some patients, the use of sildenafil tablets with alpha-blockers can lead to a drop in blood pressure or to fainting. nedicines called HIV protease inhibitors, such as ritonavir (Norvir), indinavir sulfate (Crixivan), saquinavir (Fortovase or Invirase) or atazanavir medicines called HIV protease inhibitors, such as ritonavir (Norvir), indinavir sulfate (Crixivan), saquinavir (Fortovase or Invirase) or atazanavir sulfate (Reyataz) some types of oral antifungal medicines, such as ketoconazole (Nizoral), and itraconazole (Sporanox) some types of antibiotics, such as clarithromycin (Biaxin), telithromycin (Ketek), or erythromycin other medicines that treat high blood pressure other medicines that treat high blood pressure other medicines or treatments for ED Sildenafil tablet contains sildenafil, which is the same medicine found in another drug called REVATIO. REVATIO is used to treat a rare disease called pulmonary arterial hypertension (PAH). Sildenafil tablets should not be used with REVATIO or with other PAH treatments containing sildenafil or any other PDE5 inhibitors (such as Adcirca [tadalafil]).

Ask your healthcare provider or pharmacist for a list of these medicines, if you are not sure.

$Know \ the \ medicines \ you \ take. \ Keep \ a \ list \ of \ them \ to \ show \ to \ your \ healthcare \ provider \ and \ pharmacist \ when \ you \ get \ a \ new \ medicine.$ How should I take sildenafil tablets?

Take sildenafil tablets exactly as your healthcare provider tells you to take it.

Your healthcare provider will tell you how much sildenafil tablets to take and when to take it.

Your healthcare provider may change your dose if needed.

Take sildenafil tablets about 1 hour before sexual activity. You may take sildenafil tablets between 30 minutes to 4 hours before sexual activity if

Sildenafill tablets can be taken with or without food. If you take sildenafil tablets after a high fat meal (such as a cheeseburger and french fries). sildenafil tablets may take a little longer to start working **Do not** take sildenafil tablets more than 1 time a day.

If you accidentally take too much sildenafil, call your doctor or go to the nearest hospital emergency room right away. What are the possible side effects of sildenafil tablets?

Sildenafil tablets can cause serious side effects. Rarely reported side effects include: • an erection that will not go away (priapism). If you have an erection that lasts more than 4 hours, get medical help right away. If it is not treated right

away, priapism can permanently damage your penis. sudden vision loss in one or both eyes. Sudden vision loss in one or both eyes can be a sign of a serious eye problem called non-arteritic anterior ischemic optic neuropathy (NAION). It is uncertain whether PDE5 inhibitors directly cause the vision loss. Stop taking sildenafil tablets and call you

healthcare provider right away if you have sudden vision loss in one or both eyes.

sudden hearing decrease or hearing loss. Some people may also have ringing in their ears (tinnitus) or dizziness. If you have these symptoms, stop taking sildenafil tablets and contact a doctor right away. The most common side effects of sildenafil tablets are:

headache abnormal vision, such as changes in color vision (such as having a blue color tinge) and blurred vision stuffy or runny nose back pain muscle pain

In addition, heart attack, stroke, irregular heartbeats and death have happened rarely in men taking sildenafil tablets. Most, but not all, of these men had heart problems before taking sildenafil tablets. It is not known if sildenafil tablets caused these problems

 $These \ are \ not \ all \ the \ possible \ side \ effects \ of \ silden \ a fill \ tablets. For \ more \ information, as kyour \ health care \ provider \ or \ pharmacist.$

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store sildenafil tablets? Store sildenafil tablets at room temperature between 68°F to 77°F (20°C to 25°C).

Keep sildenafil tablets and all medicines out of the reach of children. General information about the safe and effective use of sildenafil tablets

Tell your healthcare provider if you have any side effect that bothers you or does not go away

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use sildenafil tablets for a condition for

which it was not prescribed. Do not give sildenafil tablets to other people, even if they have the same symptoms that you have. It may harm t This Patient Information leaflet summarizes the most important information about sildenafil tablets. If you would like more information, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about sildenafil tablets that is written for health professional For more information, call Umedica Laboratories Pvt. Ltd. at 1-855-288-577.

What are the ingredients in sildenafil tablets? Active ingredient: sildenafil citrate, USP

Inactive ingredients: colloidal silicon dioxide, croscarmellose sodium, dicalcium phosphate anhydrous, FD&C Blue # 2 aluminum lake, hypromellose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, titanium dioxide and triacetin. Patient Information available at www.umedicalabs.com or call 1-855-288-577.

This Patient Information has been approved by the U.S. Food and Drug Administration

Umedica Laboratories Pvt. Ltd. Plot No. 221 and 221/1, GIDC, IInd Phase, Vapi, Gujarat 396195, INDIA (IND)

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