

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, 5.1
Effects on the Eye (5.3) 08/2017

----- INDICATIONS AND USAGE -----
Sildenafil Tablets are indicated for the treatment of erectile dysfunction (ED) (1).
----- DOSAGE AND ADMINISTRATION -----
For most patients, the recommended dose is 50 mg taken orally, approximately 1 hour before sexual activity. However, sildenafil tablets may be taken anywhere from 30 minutes to 4 hours before sexual activity (2.1).

----- CONTRAINDICATIONS -----
Administration of sildenafil tablets to patients using nitric oxide donors, such as organic nitrates or organic nitrites in any form. Sildenafil tablets were shown to potentiate the hypotensive effect of nitrates (4.1, 7.1, 12.2).

----- 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 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 should be used with caution, and only when the anticipated benefits outweigh

----- 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, 5.4).
Erythromycin or strong CYP3A4 inhibitors (e.g., ketoconazole, itraconazole, saquinavir): Consider a starting dose of 25 mg (2.4, 7.4).

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

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4.3 Concomitant Guanylate Cyclase (GC) Stimulators

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.

5.1 WARNINGS AND PRECAUTIONS

5.1 Cardiovascular

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 complete medical assessment.

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)].

When used in combination with other antihypertensive agents, the hypotensive effects of 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 sildenafil – those with left ventricular outflow obstruction (e.g., aortic stenosis or aortic hypertrophic subaortic stenosis) and those with severely impaired autonomic control of blood pressure.

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.

5.2 Prolonged Erection and Priapism

Prolonged erection (lasting more 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 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.

5.3 Effects on the Eye
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 cause of decreased vision including permanent loss of vision, that has been reported rarely postmarketing in temporal association with the use of all PDE5 inhibitors. Based on published literature, the annual incidence of NAION is 2.5 to 11.8 cases per 100,000 males aged > 50. An observational case-control study of PDE5 inhibitor use as a risk factor for NAION, 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% CI 1.06, 4.34). A similar study reported a consistent result, with a risk estimate of 2.27 (95% CI 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 postmarketing 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 individuals who have already experienced NAION. For men with maximum decrease in NAION response. 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 sildenafil, for this uncommon condition.

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

5.4 Hearing Loss
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 [See *Adverse Reactions* (6.1, 6.2)].

5.5 Hypotension when Coadministered with Alpha-blockers or Anti-hypertensives
Alpha-blockers
Caution is advised when PDE5 inhibitors are coadministered with alpha-blockers. PDE5 inhibitors, including sildenafil, and alpha-adrenergic blocking agents are both vasodilators with blood pressure lowering effects. When used in combination, an additive hypotensive effect may occur. In some patients, concomitant use of these two drug classes can lower blood pressure significantly [See *Drug Interactions* (7.2) and *Clinical Pharmacology* (12.2)] leading to symptomatic hypotension (e.g., dizziness, lightheadedness, fainting).

Consideration should be given to the following:

• Patients who demonstrate instability on alpha-blocker therapy alone are at increased risk of symptomatic hypotension when 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* (2.3)].

• 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 anti-hypertensive drugs.

Anti-hypertensives
Sildenafil has systemic vasodilatory properties and may further lower blood pressure in patients taking anti-hypertensive medications.

Consider a starting dose of 25 mg in patients, when administered concomitantly with 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 Pharmacology* (12.2)].

5.6 Adverse Reactions with the Concomitant Use of Ritonavir
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 exercised in prescribing sildenafil 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 to 800 mg). To decrease the chance of adverse reactions in patients taking ritonavir, decrease in sildenafil dosage is recommended [See *Dosage and Administration* (2.4), *Drug Interactions* (7.4), and *Clinical Pharmacology* (12.3)].

5.7 Combination with Other PDE5 Inhibitors or Other Erectile Dysfunction Therapies
The safety and efficacy of combinations of sildenafil with other PDE5 inhibitors, including REVATIO® or other pulmonary arterial hypertension (PAH) treatments containing sildenafil, or other treatments for erectile dysfunction have not been studied. Such combinations may further lower blood pressure. Therefore, the use of such combinations is not recommended.

5.8 Effects on Bleeding
There have been postmarketing reports of bleeding events in patients who have taken sildenafil. A causal relationship between sildenafil and these events 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 may potentiate 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 sildenafil 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 prevent sexually transmitted diseases, including the Human Immunodeficiency Virus (HIV), may be considered.

6. ADVERSE REACTIONS
The following are discussed in more detail in other sections of the labeling:
• 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 Coadministered with Alpha-blockers or Anti-hypertensives [See *Warnings and Precautions* (5.5)].
• Adverse Reactions with the Concomitant Use of Ritonavir [See *Warnings and Precautions* (5.6)].
• Combination with other PDE5 Inhibitors or Other Erectile Dysfunction 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, myalgia, nausea, dizziness, and rash.

6.1 Clinical Trials Experience
Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in sildenafil clinical trials 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 to 87 years) during premarketing clinical trials worldwide. Over 550 patients were treated for longer than one year.

In placebo-controlled clinical studies, the discontinuation rate due to adverse reactions for sildenafil (2.5%) was not significantly different from placebo (2.3%).

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 Study III/III Studies

Adverse Reaction	25 mg (n = 512)	50 mg (n = 511)	100 mg (n = 506)	Placebo (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%	3%	1%
Nausea	2%	3%	4%	1%
Dizziness	3%	4%	3%	2%
Rash	1%	2%	3%	1%

* Abnormal Vision: Mild to moderate in severity and transient, predominantly color change to vision, but also increased sensitivity to light, or blurred vision.

When sildenafil was taken as recommended (on an as-needed basis) in flexible-dose, placebo-controlled clinical trials of two to two weeks duration, patients took sildenafil at least once weekly, and the following adverse reactions were reported:

Table 2: Adverse Reactions Reported by > 2% of Patients Treated with Sildenafil and More Frequent than Placebo in Flexible-Dose Study III/III Studies

Adverse Reaction	SILDENAFIL (N = 734)	PLACEBO (N = 725)
Headache	16%	4%
Flushing	10%	1%
Dyspepsia	7%	2%
Nasal Congestion	4%	2%
Flushing	1	

In another study in healthy male volunteers, coadministration 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 *C*_{max} 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 *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 levels.

In a study of healthy male volunteers, coadministration 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 sildenafil.

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.

Pharmacokinetic data from patients in clinical trials showed no effect on sildenafil pharmacokinetics of CYP2C8 inhibitors (such as tolbutamide, warfarin), 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 non-specific beta-blockers. These effects on the metabolite are not expected to be of clinical consequence.

Effects of Sildenafil on Other Drugs

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

***In vivo* studies:** 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 29- and 42-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 to 21 months at dosages up to the Maximum Tolerated Dose (MTD) of 10 mg/kg/day, approximately 0.6 times the MRHD on a mg/m² basis.

Mutagenesis

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

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 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, titration, parallel, crossover). Sildenafil was administered to more than 3,000 patients aged 19 to 87 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 follow-up visits, and at the end of double-blind, parallel, placebo-controlled, at-home treatment. Two of the questions from the IIEF 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 IIEF 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 addition, patients were asked a global efficacy question and an optional partner questionnaire was administered.

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 month 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 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.

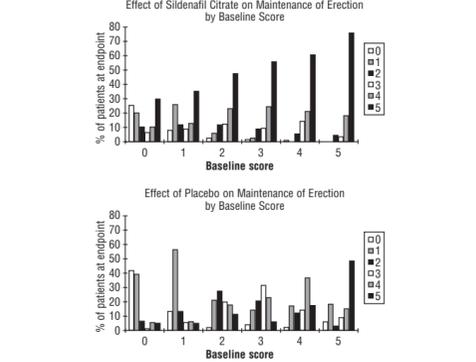


Figure 6: Effect of Sildenafil and Placebo on Maintenance of Erection by Baseline Score. The frequency of patients reporting improvement of erections in response to a global question in four of the randomized, double-blind, parallel, placebo-controlled fixed dose studies (1797 patients) of 12 to 24 weeks 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.

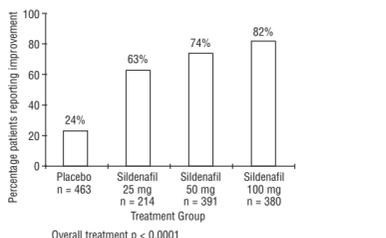


Figure 7: Percentage of Patients Reporting an Improvement in Erections.

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 a 4-week, treatment-free run-in period.

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 to 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, 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 significant in favor of sildenafil. On a global improvement question, 63% 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 = 179) and two titration 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 significant in favor of sildenafil. On a global improvement question, 63% 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.

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, 25 mg are available as white to off-white, film-coated, modified oval-shaped, convex tablets debossed with "VEVA" on one side and "5341" on the other side, in bottles of 30 (NDC 0093-5341-56). Sildenafil tablets USP, 50 mg are available as white to off-white, film-coated, modified oval-shaped, convex tablets debossed with "VEVA" on one side and "5342" on the other side, in bottles of 30 (NDC 0093-5342-56) and 100 (NDC 0093-5342-01).

Sildenafil tablets USP, 100 mg are available as white to off-white, film-coated, modified oval-shaped, convex tablets debossed with "VEVA" on one side and "5343" on the other side, in bottles of 30 (NDC 0093-5343-56) and 100 (NDC 0093-5343-01).

Recommended Storage: Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature]. Dispense in a tight, light-resistant container as defined in the USP, with a child-resistant closure (as required).

17 PATIENT COUNSELING INFORMATION

See FDA-approved patient labeling (Patient Information)

Nitrates

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 nitrates 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)*].

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 coadministered 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)*].

Cardiovascular Considerations

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)*].

Sudden Loss of Vision

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 postmarketing 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)*].

Sudden Hearing Loss

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)*].

Priapism

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 (5.2)*].

Avoid Use with other PDE5 Inhibitors

Physicians should inform patients not to take sildenafil 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 with other PDE5 inhibitors, including REVATIO, have not been studied [see *Warnings and Precautions (5.7)*].

Sexually Transmitted Disease

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)*]. All brand names listed are the registered trademarks of their respective owners and are not trademarks of Teva Pharmaceuticals USA, Inc.

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Zagreb, Croatia

Manufactured For:
Teva Pharmaceuticals USA, Inc.
North Wales, PA 19454

PATIENT INFORMATION

Sildenafil Tablets USP

(sildenafil)

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 they are 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 dizzy, faint, or have a heart attack or stroke.

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 nausea 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 do not protect you or your partner from getting sexually transmitted diseases, including HIV—the virus that causes AIDS.

What are sildenafil tablets?

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 help a man with erectile dysfunction get and keep an erection only when he is sexually excited (stimulated).

Sildenafil tablets are not for use in women or children.

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?

Do not take sildenafil tablets if you:

- take medicines called nitrates (such as nitroglycerin)
- use street drugs called "poppers" such as amyl nitrate or amyl nitrite, and butyl nitrate
- 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 healthcare provider before taking sildenafil 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 aortic 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 supplements.

Sildenafil tablets may affect the way other medicines work, and other medicines may affect the way sildenafil tablets work causing side effects. Especially tell your healthcare provider if you take any of the following:

- medicines called nitrates (see **What is the most important information I should know about sildenafil tablets?**)
- medicines called guanylate cyclase stimulators, such as riociguat (Adempas)
- medicines called alpha blockers such as Hytrin® (terazosin HCl), Flomax® (tamsulosin HCl), Cardura® (doxazosin mesylate), Minipress® (prazosin HCl), Uroxatral® (alfuzosin HCl), Jalyn® (dutasteride and tamsulosin HCl), or Rapaflo® (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.
- 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 or treatments for ED
- sildenafil tablets contain 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 them.
- Your healthcare provider will tell you how many sildenafil tablets to take and when to take them.
- 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 needed.

- Sildenafil 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 many sildenafil tablets, 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 your 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
- flushing
- upset stomach
- 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
- nausea
- dizziness
- rash

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.

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

These are not all the possible side effects of sildenafil tablets. For more information, ask your healthcare 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 68° to 77°F (20° 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.

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 they were not prescribed. Do not give sildenafil tablets to other people, even if they have the same symptoms that you have. They may harm them.

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 professionals.

For more information, call 1-888-838-2872.

What are the ingredients in sildenafil tablets USP?

Active ingredient: sildenafil citrate, USP

Inactive ingredients: croscarmellose sodium, dibasic calcium phosphate, magnesium stearate, microcrystalline cellulose, polyethylene glycol, polyvinyl alcohol – part, hydrolyzed, talc, and titanium dioxide.

This Patient Information has been approved by the U.S. Food and Drug Administration. This product's label may have been updated. For more information, call 1-888-838-2872. All brand names listed are the registered trademarks of their respective owners and are not trademarks of Teva Pharmaceuticals USA, Inc.

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Pliva Hrvatska d.o.o.
Zagreb, Croatia

Manufactured For:
Teva Pharmaceuticals USA, Inc.
North Wales, PA 19454

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