

HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use AVANAFIL TABLETS safely and effectively. See full prescribing tion for AVANAFIL TABLETS.

AVANAFIL tablets, for oral use Initial U.S. Approval: 2012

---INDICATIONS AND USAGE---Avanafil tablet is a phosphodiesterase 5 (PDE5) inhibitor indicated for the treatment of erectile dysfunction (1)

- ---DOSAGE AND ADMINISTRATION-The starting dose is 100 mg taken as early as approximately 15 minutes before sexual activity, on an as needed basis (2.1)
- Take avanafil tablet no more than once a day (2.1).

 Based on efficacy and/or tolerability, the dose may be increased to 200 mg taken as early as approximately 15 minutes before sexual activity or decreased to 50 mg taken approximately 30 minutes before sexual activity. Use the lowest dose that provides
- Avanafil tablet may be taken with or without food (2.2) Do not use avanafil tablet with strong CYP3A4 inhibitors (2.3)
- If taking a moderate CYP3A4 inhibitor, the dose should be no more than 50 mg in a 24-hour period (2.3). In patients on stable alpha-blocker therapy, the recommended starting dose of avanafil tablet is 50 mg (2.3).

-DOSAGE FORMS AND STRENGTHS-Tablets: 50 mg, 100 mg, 200 mg (3)

---CONTRAINDICATIONS--

- Administration of avanafil tablet to patients using any form of organic nitrate is contraindicated (4.1) Hypersensitivity to any component of the avanafil tablet (4.2)
- Administration with guanylate cyclase (GC) stimulators such as riociguat and vericiguat (4.3)

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FULL PRESCRIBING INFORMATION

INDICATIONS AND USAGE Avanafil tablets are a phosphodiesterase 5 (PDE5) inhibitor indicated for the treatment of erectile dysfunction in adult males.

2 DOSAGE AND ADMINISTRATION

The recommended starting dose is 100 mg. Avanafil tablets should be taken orally as needed as early as approximately 15 minutes

2.1 Erectile Dysfunction

before sexual activity. Based on individual efficacy and tolerability, the dose may be increased to 200 mg taken as early as approximately 15 minutes before sexual activity, or decreased to 50 mg taken approximately 30 minutes before sexual activity. The lowest dose that provides benefit

The maximum recommended dosing frequency is once per day. Sexual stimulation is required for a response to treatment.

Avanafil tablets may be taken with or without food

2.3 Concomitant Medications

4.2 Hypersensitivity Reactions

Concomitant use of nitrates in any form is contraindicated [see Contraindications (4.1)].

replace-blockers. It avanafil tablet is co-administered with an alpha-blocker, patients should be stable on alpha-blocker therapy prior to initiating treatment with avanafil tablet, and avanafil tablet should be initiated at the 50 mg dose [see Warnings and Precautions (5.6), Drug Interactions (7.1) and Clinical Pharmacology (12.2)]. CYP3A4 Inhibitors

For patients taking concomitant strong CYP3A4 inhibitors (including ketoconazole, ritonavir, atazanavir, clarithromycin

indinavir, itraconazole, nefazodone, nelfinavir, saquinavir and telithromycin), do not use avanafil tablet [see Warnings and Precautions (5.2) and Drug Interactions (7.2)].
For patients taking concomitant moderate CYP3A4 inhibitors (including erythromycin, amprenavir, aprepitant, diltiazem. fluconazole, fosamprenavir, and verapamil), the maximum recommended dose of avanafil tablet is 50 mg, not to exceed once

every 24 hours [see Warnings and Precautions (5.2) and Drug Interactions (7.2)]. DOSAGE FORMS AND STRENGTHS Avanafil tablets, 50 mg are white to off-white, oval shape, biconvex tablets debossed with 'A41' on one side and 'H' on the other side.

Avanafil tablets, 100 mg are white to off-white, oval shape, biconvex tablets debossed with 'A42' on one side and 'H' on the other side. Avanafil tablets, 200 mg are white to off-white, oval shape, biconvex tablets debossed with 'A42' on one side and 'H' on the other side.

4 CONTRAINDICATIONS

4.1 Nitrates Administration of avanafil tablets with any form of organic nitrates, either regularly and/or intermittently, is contraindicated. Consistent with its known effects on the nitric oxide/cyclic guanosine monophosphate (cGMP) pathway, avanafil has been shown to potentiate

In a patient who has taken avanafil tablets, where nitrate administration is deemed medically necessary in a life-threatening situation, at least 12 hours should elapse after the last dose of avanafil tablets before nitrate administration is considered. In such circumstances, nitrates should only be administered under close medical supervision with appropriate hemodynamic monitoring [see Contraindications (4.1), Dosage and Administration (2.3), and Clinical Pharmacology (12.2)].

Avanafil is contraindicated in patients with a known hypersensitivity to any component of the tablet. Hypersensitivity reactions have been reported, including pruritis and eyelid swelling

4.3 Concomitant Guanylate Cyclase (GC) Stimulators 4.3 Concomman qualityate cyclese (GC) stimulaturs
Do not use avanafil tablets in patients who are using a GC stimulators, such as riociguat or vericiguat. PDE5 inhibitors, including avanafil tablets may potentiate the hypotensive effects of GC stimulators.

Evaluation of erectile dysfunction (ED) should include an appropriate medical assessment to identify potential underlying causes, as Before prescribing avanafil, it is important to note the following:

5.1 Cardiovascular Risk There is a potential for cardiac risk during sexual activity in patients with pre-existing cardiovascular disease. Therefore, treatments for ED, including avanafil, should not be used in men for whom sexual activity is inadvisable because of their underlying cardiovascular status. Patients with left ventricular outflow obstruction (e.g., aortic stenosis, idiopathic hypertrophic subaortic stenosis) and those with severely impaired autonomic control of blood pressure can be particularly sensitive to the actions of vasodilators, including avanafil. The following groups of patients were not included in clinical safety and efficacy trials for avanafil, and therefore until further

- information is available, avanafil is not recommended for the following groups Patients who have suffered a myocardial infarction, stroke, life-threatening arrhythmia, or coronary revascularization within the Patients with resting hypotension (blood pressure less than 90/50 mmHg) or hypertension (blood pressure greater than
- Patients with unstable angina, angina with sexual intercourse, or New York Heart Association Class 2 or greater congestive heart

As with other PDE5 inhibitors avanafil has systemic vasodilatory properties and may augment the blood pressure-lowering effect of other anti-hypertensive medications. Avanafil 200 mg resulted in transient decreases in sitting blood pressure in healthy volunteers of 8.0 mmHg systolic and 3.3 mmHg diastolic [see Clinical Pharmacology (12.2)], with the maximum decrease observed at 1 hour after dosing. While this normally would be expected to be of little consequence in most patients, prior to prescribing avanafil, physicians should carefully consider whether patients with underlying cardiovascular disease could be affected adversely by such vasodilatory effects, especially in combination with sexual activity. 5.2 Concomitant Use of CYP3A4 Inhibitors

Avanafil metabolism is principally mediated by the CYP450 isoform 3A4 (CYP3A4). Inhibitors of CYP3A4 may reduce avanafil clearance and increase plasma concentrations of avanafil. For patients taking concomitant strong CYP3A4 inhibitors (including ketoconazole, ritonavir, atazanavir, clarithromycin, indinavir, itraconazole, nefazodone, nelfinavir, saquinavir and telithromycin), do not use avanafil [see Drug Interactions (7.2)].

For patients taking concomitant moderate CYP3A4 inhibitors (including erythromycin, amprenavir, aprepitant, diltiazem, fluconazole, Including disjunctions, and verapamil), the maximum recommended dose of avanafil is 50 mg, not to exceed once every 24 hours [see Drug Interactions (7.2)]. 5.3 Prolonged Erection

Prolonged erection greater than 4 hours and priapism (painful erections greater than 6 hours in duration) have been reported with other PDE5 inhibitors. In the event of an erection that persists longer than 4 hours, the patient should seek immediate medical assistance. If not treated immediately, penile tissue damage and permanent loss of potency could result. Avanafil 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).

Physicians should advise patients to stop use of all PDE5 inhibitors, including avanafil 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 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 in males aged \geq 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% 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 use of PDE5 inhibitors. Individuals who have already experienced NAION are at increased risk of NAION recurrence. Therefore, PDE5 inhibitors, including avanafii 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 avanafil, for this uncommon condition.

Patients with known hereditary degenerative retinal disorders, including retinitis pigmentosa, were not included in the clinical trials for avanafil. and therefore, until further information is available, avanafil is not recommended for use in these patients. 5.5 Sudden Hearing Loss Use of PDE5 inhibitors has been associated with sudden decrease or loss of hearing, which may be accompanied by tinnitus or dizziness. It is not possible to determine whether these events are related directly to the use of PDE5 inhibitors or to other factors

[see Adverse Reactions (6)]. Patients experiencing these symptoms should be advised to stop taking avanafil and seek prompt

5.6 Alpha-Blockers and Other Antihypertensives
Physicians should discuss with patients the potential for avanafil to augment the blood pressure-lowering effect of alpha-blockers and other antihypertensive medications [see Drug Interactions (7.1) and Clinical Pharmacology (12.2)].

Caution is advised when PDE5 inhibitors are co-administered with alpha-blockers. Phosphodiesterase type 5 inhibitors, including avanafil, 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 be anticipated. In some patients, concomitant use of these two drug

cyclase

guanylate

classes can lower blood pressure significantly leading to symptomatic hypotension (e.g., dizziness, lightheadedness, fainting).

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are nitrates

-- WARNINGS AND PRECAUTIONS--Patients should not use avanafil if sexual activity is inadvisable due to cardiovascular status or any other reason (5.1) Use of avanafil with alpha-blockers, other antihypertensives, or substantial amounts of alcohol (greater than 3 units) may lead

2D Code

to hypotension (2.3, 5.6, 5.7) Patients should seek emergency treatment if an erection lasts greater than 4 hours (5.3)

Patients should step avanafil and seek medical care if a sudden loss of vision occurs in one or both eyes, which could be a sign of Non Arteritic Ischemic Optic Neuropathy (INAION). Avanafil 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 Patients should stop taking avanafil and seek prompt medical attention in the event of sudden decrease or loss of hearing (5.5)

-- ADVERSE REACTIONS-Most common adverse reactions (greater than or equal to 2%) include headache, flushing, nasal congestion, nasopharyngitis, and

To report SUSPECTED ADVERSE REACTIONS, contact Hetero Labs Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or www.

- ---- USE IN SPECIFIC POPULATIONS
- Do not use in patients with severe renal impairment (8.6) Do not use in patients with severe hepatic impairment (8.7)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

8.3 Females and Males of Reproductive Potential

- 8.4 Pediatric Use 8.5 Geriatric Use 8.6 Renal Impairment
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Nas

*Sections or subsections omitted from the full prescribing information are not listed.

Consideration should be given to the following:

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

In those patients who are stable on alpha-blocker therapy, PDE5 inhibitors should be initiated at the lowest dose (Avanafil 50 mg). 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 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 [see Dosage and Administration (2) and Drug Interactions (7.1)]

Patients should be made aware that both alcohol and PDE5 inhibitors including avanafil act as vasodilators. When vasodilators are taken in combination, blood-pressure-lowering effects of each individual compound may be increased. Therefore, physicians should inform patients that substantial consumption of alcohol (e.g., greater than 3 units) in combination with avanafil may increase the potential for orthostatic signs and symptoms, including increase in heart rate, decrease in standing blood pressure, dizziness, and headache [see Drug Interactions (7.1) and Clinical Pharmacology (12.2)].

5.8 Combination with Other PDE5 Inhibitors or Erectile Dysfunction Therapies The safety and efficacy of combinations of avanafil with other treatments for ED has not been studied. Therefore, the use of such

The safety of avanafil is unknown in patients with bleeding disorders and patients with active peptic ulceration. In vitro studies with

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

ADVERSE REACTIONS 6.1 Clinical Trials Experience

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 practice. Avanafil was administered to 2215 men during clinical trials. In trials of avanafil for use as needed, a total of 493 patients were exposed for greater than or equal to 6 months, and 153 patients were treated for greater than or equal to 12 months. In three randomized, double-blind, placebo-controlled trials lasting up to 3 months in duration, the mean age of patients was 56.4

years (range from 23 to 88 years), 83.9% of patients were White, 13.8% were Black, 1.4% Asian, and <1% Hispanic. 41.1% were current or previous smokers. 30.6% had diabetes mellitus. The discontinuation rate due to adverse reactions for patients treated with avanafil 50 mg, 100 mg, or 200 mg was 1.4%, 2.0%, and 2.0%, respectively, compared to 1.7% for placebo-treated patients

Table 1 presents the adverse reactions reported when avanafil was taken as recommended (on an as-needed basis) from these 3 Table 1: Adverse Reactions Reported by Greater Than or Equal to 2% of Patients Treated with Avanafil From 3 Placebo-Controlled

Idai Iriais Lasting 3 months for Availain Ose as Needed					
Adverse Reaction	Placebo (N = 349)	Avanafil 50 mg (N = 217)	Avanafil 100 mg (N = 349)	Avanafil 200 mg (N = 352)	
adache	1.7%	5.1%	6.9%	10.5%	
ıshing	0.0%	3.2%	4.3%	4.0%	
sal congestion	1.1%	1.8%	2.9%	2.0%	
sopharyngitis	2.9%	0.9%	2.6%	3.4%	
ck pain	1.1%	3.2%	2.0%	1.1%	

Adverse reactions reported by greater than or equal to 1%, but less than 2% of patients in any avanafil dose group, and greater nausea, constination, and rash.

In an open-label, long-term extension study of two of these randomized, double-blind, placebo-controlled trials, the total duration of treatment was up to 52 weeks. Among the 712 patients who participated in this open-label extension study, the mean age of the population was 56.4 years (range from 23 to 88 years). The discontinuation rate due to adverse reactions for patients treated with avanafil (50 mg, 100 mg, or 200 mg) was 2.8%.

In this extension trial, all eligible patients were initially assigned to avanafil 100 mg. At any point during the trial, patients could request to have their dose of avanafil increased to 200 mg or decreased to 50 mg based on their individual response to treatment. In total, 536 (approximately 75%) patients increased their dose to 200 mg and 5 (less than 1%) patients reduced their dose to 50 mg. Table 2 presents the adverse reactions reported when avanafil was taken as recommended (on an as-needed basis) in this open-label

Table 2: Adverse Reactions Reported by Greater Than or Equal to 2% of Patients Treated With Avanafil in an Open-Label

Adverse Reaction	Avanafil (N = 711)
Headache	5.6%
Flushing	3.5%
Nasopharyngitis	3.4%
Nasal congestion	2.1%

Adverse reactions reported by greater than or equal to 1%, but less than 2% of patients in the open-label extension study included: The following events occurred in less than 1% of patients in the three placebo-controlled 3-month clinical trials and/or the open-label long-term extension study lasting 12 months. A causal relationship to avanafil is uncertain. Excluded from this list are those events that were minor, those with no plausible relation to drug use and reports too imprecise to be meaningful. Body as a whole — edema peripheral, fatigue

Digestive — gastritis, gastroesophageal reflux disease, hypoglycemia, blood glucose increased, alanine aminotransferase increased, oropharyngeal pain, stomach discomfort, vomiting

Musculoskeletal — muscle spasms, musculoskeletal pain, myalgia, pain in extremity Nervous - depression, insomnia, somnolence, vertigo Respiratory — cough, dyspnea exertional, epistaxis, wheezing

Cardiovascular — angina, unstable angina, deep vein thrombosis, palpitations

Skin and Appendages — pruritus Urogenital — balanitis, erection increased, hematuria, nephrolithiasis, pollakiuria, urinary tract infection In an additional, randomized, double-blind, placebo-controlled study lasting up to 3 months in 298 men who had undergone bilateral

Table 3: Adverse Reactions Reported by Greater than or Equal to 2% of Patients Treated with Avanafil in a Placebo-Controlled Clinical Trial Lasting 3 Months in Patients Who Underwent Bilateral Nerve-Sparing Radical Prostatectomy (Study 3) Avanafil 200 mg Avanafil 100 mg

nerve-sparing radical prostatectomy for prostate cancer, the mean age of patients was 58.4 years (range 40 to 70). Table 3 presents

Adverse Reaction (N = 100)(N = 99)(N = 99)

Headache	1.0%	8.1%	12.1%
Flushing	0.0%	5.1%	10.1%
Nasopharyngitis	0.0%	3.0%	5.1%
Upper respiratory infection	0.0%	2.0%	3.0%
Vasal congestion	1.0%	3.0%	1.0%
Back pain	1.0%	3.0%	2.0%
Electrocardiogram abnormal	0.0%	1.0%	3.0%
Dizziness	0.0%	1.0%	2.0%
randomized, double-blind, placebo-controll 4 to 86 years) to determine the time to onse	et of effect of avanafil, define	ed as the time to the first occurr	ence of an erection sufficient

for sexual intercourse. Table 4 presents the adverse reactions occurring in $\geq 2\%$ of subjects treated with avanafil

Table 4: Adverse Reactions Reported by ≥ 2% of Patients Treated with Avanafil in a Placebo-Controlled Clinical Trial Lasting 2 Months to Determine the Time to Onset of Effect (Study 4) Avanafil 100 mm Avanafil 200 mm

Adverse Reaction	(N = 143)	(N = 146)	(N = 146)
eadache	0.7%	1.4%	8.9%
asal congestion	0.0%	0.7%	4.1%
astroenteritis viral	0.0%	0.0%	2.1%
ross all trials with any avanafil dose, 1 s	subject reported a change in co	olor vision.	

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Before you take avanafil tablet, tell your he medical conditions, including if you:

• have or have had heart problems such as angina, or heart failure.

• have had heart surgery within the last 6 mg

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nitrite. See the

n as amyl nitrite and butyl n redients in avanafil tablet. S lients in avanafil tablet. relase stimulators.

are allergic to avanafil or any of the ingre this leaflet for a complete list of ingredie take any medicines called guanylate cycl

use street drugs called are allergic to avanafil o

6.2 Postmarketing Experience The following adverse reactions have been identified during post approval use of avanafil. 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 and cerebrovascular events, including myocardial infarction, sudden cardiac death, cerebrovascular accident, and subarachnoid hemorrhage, have been reported post-marketing in temporal association with the use of avanafii. All of these patients had preexisting cardiovascular archering respectively. although events were reported to occur both with and without sexual activity. It is not possible to determine whether these events are related directly to avanafil, 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 (17.2)].

Nervous: transient global amnesia

Special senses: Ophthalmologic: vitreous detachment, visual impairment

7 DRUG INTERACTIONS

Non-arteritic anterior ischemic optic neuropathy (NAION), a cause of decreased vision including permanent loss of vision, has been reported rarely post-marketing in temporal association with the use of phosphodiesterase type 5 (PDE5) inhibitors, such as avanafil. 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 (5.4)].

Otologic: Cases of sudden decrease or loss of hearing have been reported postmarketing in temporal association with the use of PDE5 inhibitors, such as avanafil. 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 PDE5 inhibitors such as avanafil, to the patient's underlying risk factors for hearing loss, a combination of these factors, or to other factors [see Warnings and Precautions (5.5) and Patient Counseling Information (17.6)].

7.1 Potential for Pharmacodynamic Interactions with Avanafil

Nitrates

Administration of avanafil to patients who are using any form of organic nitrate, is contraindicated. In a clinical pharmacology trial, avanafil was shown to potentiate the hypotensive effect of nitrates. In a patient who has taken avanafil, where nitrate administration is deemed medically necessary in a life-threatening situation, at least 12 hours should elapse after the last dose of avanafil before nitrate administration is considered. In such circumstances, nitrates should only be administered under close medical supervision with appropriate hemodynamic monitoring [see Contraindications (4.1), Dosage and Administration (2.3), and Clinical Pharmacology

Alpha-Blockers

Revised: 11/2025

Caution is advised when PDE5 inhibitors are co-administered with alpha-blockers. PDE5 inhibitors, including avanafil, and alphaadrenergic blocking agents are both vasodilators with blood pressure-lowering effects. When vasodilators are used in combination, an additive effect on blood pressure may be anticipated. In some patients, concomitant use of these two drug classes can lower blood pressure significantly leading to symptomatic hypotension (e.g., dizziness, lightheadedness, fainting) [see Warnings and Precautions (5.6), Dosage and Administration (2.3), and Clinical Pharmacology (12.2)].

PDE5 inhibitors, including avanafil, are mild systemic vasodilators. A clinical pharmacology trial was conducted to assess the effect of avanafil on the potentiation of the blood pressure-lowering effects of selected antihypertensive medications (amlodipine and enalapril). Additional reductions in blood pressure of 3 to 5 mmHg occurred following co-administration of a single 200 mg dose of

avanafil with these agents compared with placebo [see Warnings and Precautions (5.6) and Clinical Pharmacology (12.2)]. Both alcohol and PDE5 inhibitors, including avanafil, act as vasodilators. When vasodilators are taken in combination, blood pressure-

lowering effects of each individual compound may be increased. Substantial consumption of alcohol (e.g., greater than 3 units) in combination with avanafil can increase the potential for orthostatic signs and symptoms, including increase in heart rate, decrease in standing blood pressure, dizziness, and headache [see Clinical Pharmacology (12.2)].

7.2 Potential for Other Drugs to Affect Avanafil Avanafil is a substrate of and predominantly metabolized by CYP3A4. Studies have shown that drugs that inhibit CYP3A4 can increase avanafil exposure

Strong CYP3A4 Inhibitors Ketoconazole (400 mg daily), a selective and strong inhibitor of CYP3A4, increased avanafil 50 mg single-dose systemic exposure (AUC) and maximum concentration (C_{max}) equal to 13-fold and 3-fold, respectively, and prolonged the half-life of avanafil to approximately 9 hours. Other potent inhibitors of CYP3A4 (e.g., itraconazole, clarithromycin, nefazadone, ritonavir, saquinavir, neffinavir, indinavir, atanazavir and telithromycin) would be expected to have similar effects. Do not use avanafil in patients taking strong CYP3A4 inhibitors [see Warnings and Precautions (5.2) and Dosage and Administration (2.3)].

HIV Protease inhibitor — Ritonavir (600 mg twice daily), a strong CYP3A4 inhibitor, which also inhibits CYP2C9, increased avanafil 50 mg single-dose C_{max} and AUC equal to approximately 2-fold and 13-fold, and prolonged the half-life of avanafil to approximately 9 hours in healthy volunteers. Do not use avanafil in patients taking ritonavir. Erythromycin (500 mg twice daily) increased avanafil 200 mg single-dose Cmax and AUC equal to approximately 2-fold and 3-fold, respectively, and prolonged the half-life of avanafil to approximately 8 hours in healthy volunteers. Moderate CVP3A4 inhibitors (e.g., erythromycin, amprenavir, aprepitant, diltiazem, fluconazole, fosamprenavir, and verapamil) would be expected to have similar

effects. Consequently, the maximum recommended dose of avanafil is 50 mg, not to exceed once every 24 hours for patients taking concomitant moderate CYP3A4 inhibitors [see Warnings and Precautions (5.2) and Drug Interactions (7.2)]. Although specific interactions have not been studied, other CYP3A4 inhibitors, including grapefruit juice are likely to increase avanafil

When administered with avanafil 200 mg, amlodipine (5 mg daily) increased the C_{max} and AUC of avanafil by approximately 22% and 70%, respectively. The half-life of avanafil was prolonged to approximately 10 hrs. The C_{max} and AUC of amlodipine decreased by approximately 9% and 4%, respectively [see Dosage and Administration (2.3)].

No in vivo drug-drug interaction studies with weak CYP3A4 inhibitors were conducted.

Cytochrome P450 Inducers
The potential effect of CYP inducers on the pharmacokinetics of avanafil was not evaluated. The concomitant use of avanafil and CYP inducers is not recommended

Weak CYP3A4 Inhibitors

8 LISE IN SPECIFIC POPULATIONS 8.1 Pregnancy

Avanafil is not indicated for use in females.

There are no data with the use of avanafil in pregnant women to inform any drug-associated risks for adverse developmental outcomes. In a nimal reproduction studies conducted in pregnant work and rabbits, no adverse developmental outcomes were observed with oral administration of avanafil during organogenesis at exposures for total avanafil at approximately 8 and 6 times, respectively, the Maximum Recommended Human Dose (MRHD) of 200 mg based on AUC (see Data)

8.2 Lactation

Animal Data In pregnant rats administered orally at 100, 300, or 1000 mg/kg/day from gestation days 6 to 17, no evidence of teratogenicity, embryotoxicity, or fetotoxicity was observed at up to 300 mg/kg/day. This dose is equivalent to exposures of approximately 8 times the exposure at the Maximum Recommended Human Dose (MRHD) of 200 mg based on AUCs for total avanafil. At the maternally toxic dose (1000 mg/kg/day), decreased fetal body weight occurred with no signs of teratogenicity. In pregnant rabbits administered

orally at 30, 60, 120, or 240 mg/kg/day from gestation days 6 to 18, no teratogenicity was observed at exposures up to approximately

6 times the human exposure at the MRHD based on AUCs for total avanafil. In a pre- and post-natal development study in rats given orally at 100, 300, or 600 mg/kg/day on gestation days 6 through lactation day 20, offspring growth and maturation were reduced when maternal rats were given avanafil doses greater than or equal to 300 mg/kg/day, resulting in exposures greater than or equal to 17 times the human exposure to total avanafil at the MRHD. There was no effect on reproductive performance of the maternal rats or offspring, or on the behavior of the offspring at up to the highest dose tested. The no observed adverse effect level (NOAEL) for developmental toxicity (100 mg/kg/day) was observed at exposures to total avanafil approximately 2-fold greater than the systemic exposure in humans at the MRHD.

Avanafil is not indicated for use in females. There is no information on the presence of avanafil and/or its metabolites in human or animal milk, the effects on the breastfed child

8.3 Females and Males of Reproductive Potential

There have been no studies evaluating the effect of avanafil on fertility in men [see Clinical Pharmacology (12.2)]

Based on studies in animals, decreased fertility, abnormal sperm motility and morphology, and altered estrous cycles were observed in rats. The abnormal sperm findings were reversible at the end of a 9-week drug-free period [see Nonclinical Toxicology (13.1)]. Avanafil is not indicated for use in pediatric patients. Safety and efficacy in patients below the age of 18 years has not been established.

8.5 Geriatric Use
Of the total number of subjects in clinical studies of avanafil, approximately 23% were 65 and over. No overall differences in efficacy and safety were observed between subjects over 65 years of age compared to younger subjects; therefore, no dose adjustment is warranted based on age alone. However, a greater sensitivity to medication in some older individuals should be considered *[see*

Clinical Pharmacology (12.3)] 8.6 Renal Impairment

The actinical pharmacology trial using single 200 mg doses of avanafil, avanafil exposure (AUC or C_{max}) in normal subjects was comparable to patients with mild (creatinine clearance greater than or equal to 60 to less than 90 mL/min) or moderate (creatinine clearance greater than or equal to 30 to less than 60 mL/min) renal impairment. No dose adjustment is necessary for patients with mild to moderate renal impairment (creatinine clearance greater than or equal to 30 to less than 90 mL/min). The pharmacokinetics of avanafil in patients with severe renal disease or on renal dialysis has not been studied; do not use avanafil in such patients [see

In a clinical pharmacology trial, avanafil AUC and C_{max} in patients with mild hepatic impairment (Child-Pugh Class A) was comparable In a clinical pharmacology trial, avanatil AUC and C_{max} in patients with mild hepatic impairment (Child-Pugh Class A) was comparable to that in healthy subjects when a dose of 200 mg was administered. Avanafil C_{max} was approximately 51% lower and AUC was 11% higher in patients with moderate hepatic impairment (Child Pugh Class B) compared to subjects with normal hepatic function. No dose adjustment is necessary for patients with mild to moderate hepatic impairment (Child Pugh Class A or B). The pharmacokinetics of avanafil in patients with severe hepatic disease has not been studied; do not use avanafil in such patients [see Clinical Pharmacology

10 OVERDOSAGE Single doses up to 800 mg have been given to healthy subjects, and multiple doses up to 300 mg have been given to patients. In cases of overdose, standard supportive measures should be adopted as required. Renal dialysis is not expected to accelerate clearance because avanafil is highly bound to plasma proteins and is not significantly eliminated in the urine.

Avanafil is a selective inhibitor of cGMP-specific PDE5. A vana fil is designated chemically as (S)-4-[(3-Chloro-4-methoxybenzyl)amino]-2-[2-(hydroxymethyl)-1-pyrrolidinyl]- N-(2-methoxybenzyl)amino]-2-[2-(hydroxymethyl)-1-pyrrolidinyl]- N-(2-methoxybenzyl)-2-[2-(hydroxymethyl)-1-pyrrolidinyl]- N-(2-methoxybenzyl)-2-[2-(hydroxymethyl)-1-pyrrolidinyl]- N-(2-methoxybenzyl)-2-[2-(hydroxymethyl)-1-pyrrolidinyl]- N-(2-methoxybenzyl)-2-[2-(hydroxymethyl)-1-pyrrolidinyl]- N-(2-methoxybenzyl)-2-[2-(hydroxymethyl)-2-(hydroxymethyl)-2-[2-(hydroxymethyl)-2-(hydroxymethyl)-2-[2-(hydroxymethyl)-2-(hydroxymethyl)-2pyrimidinylmethyl)-5-pyrimidinecarboxamide and has the following structural formula

Avanafil occurs as an off-white to white powder, molecular formula C23H26ClN7O3 and molecular weight of 483.95 and is slightly soluble in methanol, ethanol and insoluble in water. Avanafil tablets, for oral administration, is supplied as oval, white to off-white tablets containing 50 mg, 100 mg, or 200 mg avanafil. In addition to the active ingredient, avanafil, each tablet contains the following inactive ingredients: fumaric acid, hydroxyl propyl cellulose, low- substituted hydroxyl propyl cellulose, magnesium stearate,

12 CLINICAL PHARMACOLOGY 12.1 Mechanism of Action

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have bleeding problems. have or have had stomach ulcers. have liver problems. have kidney problems or are having kidr

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Avanafil tablet may affect the way other may affect the way avanafil tablet works chealthcare provider if you take any of the f

mannitol and sodium bicarbonate.

11 DESCRIPTION

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 GGMP, producing smooth muscle relaxation in the corpus cavernosum and allowing inflow of blood. Avanafil has no direct relaxant effect on isolated human corpus cavernosum, but enhances the effect of NO by inhibiting PDE5, which is responsible for degradation of cGMP in the corpus cavernosum. Because sexual stimulation is required to initiate the local release of nitric oxide, the inhibition of PDE5 has no effect in

Studies in vitro have shown that avanafil is selective for PDE5. Its effect is more potent on PDE5 than on other known phosphodiesterases (greater than 100-fold for PDE6; greater than 1,000-fold for PDE4, PDE8 and PDE10; greater than 5,000-fold for PDE2 and PDE7; greater than 10,000-fold for PDE5, PDE9, and PDE11). Avanafil is greater than 100-fold more potent for PDE5 than PDE6, which is found in the retina and is responsible for phototransduction. In addition to human corpus cavernosum smooth muscle PDF5 is also found in other tissues including platelets, vascular and visceral smooth muscle, and skeletal muscle, brain hast, liver, kidney, lung, pancreas, prostate, bladder, testis, and seminal vesicle. The inhibition of PDE5 in these tissues by avanafil may be the basis for the enhanced platelet anti-aggregatory activity of NO observed *in vitro* and peripheral vasodilatation *in vivo*.

lators, such a riociguat or vericiguat (see

medicines called guanylate cyclase stimu What is the most important information medicines called HIV protease inhibitor

medicines called nitrates (see **What is the most important information I shou**l know about avanafil tablets?)

ss, such as ketoconazole, and itraconozale. Thromycin, telithromycin, or erythromycin. nese include terazosin, tamsulosin HCI, dutasteride and tamsulosin HCI, or mes prescribed for prostate problems or its, the use of avanafil tablet with alphanessure or to fainting.

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o drop suddenly to an unsafe o not take avanafii tablets if you ed to treat chest pain (angina). feel dizzy, faint, or have a heart called s. Do no used to to feel o medicines nes. are u you t Avanafil tablets can cause your blood press level if it is taken with certain other medicine take any medicines called nitrates. Nitrates at A sudden drop in blood pressure can cause y attack or stroke. if you tak What is the most important

of your medicines t treat pulmonary a ary hypertension. if any nary Ask your healthcare provider or pharmacist Riociguat and vericiguat, medicine thand chronic-thromboembolic pulmor Do not take avanafil tablets stimulators which include:

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children. ed What are avanafil tablets? Avanafil tablet is a prescription medicine us adult men. chest pain, dizziness, or nausea during sex your heart, especially if your heart is already Avanafil tablet is not for use in women or

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It is not known if avanafil tablet is safe an 18 years of age.

Do not take avanafil tablet if you:

• take medicines called nitrates.

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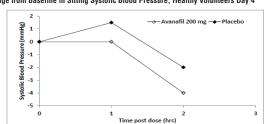
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Effects of Avanafil on Erectile Response In a single-blind, placebo-controlled, single-dose trial of 82 patients with either organic and/or psychogenic ED, visual sexual stimulation resulted in improved erections after avanafil administration compared to placebo, as assessed by an objective measurement of hardness and duration of erections (RigiScan®). Efficacy was assessed by RigiScan at discrete time intervals ranging from 20 to 40 minutes after dosing to 100 to 120 minutes after dosing.

Effects of Avanafil on Blood Pressure
Single oral doses of avanafil (200 mg) administered to healthy male volunteers resulted in mean changes from baseline in systolic/
diastolic blood pressure of -5.3/-3.7 mmHg at 1 hour after dosing, compared to mean changes from baseline in the placebo group of 2.7/-0.4 mmHg. The reductions in systolic/diastolic blood pressure at 1 hour after dosing of avanafil 200 mg compared to placebo

Figure 1: Median Change from Baseline in Sitting Systolic Blood Pressure, Healthy Volunteers Day 4



Effects on Cardiac Electrophysiology

The effect of single 100 or 800 mg doses of avanafil on the QT interval were evaluated in a randomized, double-blind, placebo, and active (moxifloxacin) -controlled crossover study in 52 healthy male subjects aged 18 to 45 years. There were no significant effects of the 100 mg dose. The mean QTc (Fridericia QT correction) for avanafil 800 mg, relative to placebo was 9.4 milliseconds (two-sided 90% Ci-l-7.2, 11.6). An 800 mg dose of avanafil (4 times the highest recommended dose) was chosen because this dose yields exposures greater than those observed upon co-administration of avanafil with strong CYP3A4 inhibitors. A double-blind, randomized, placebo- and active-controlled (moxifloxacin), thorough QT/QTc trial of avanafil (100 and 800 mg) in healthy male subjects demonstrated that avanafil did not cause any significant changes in QTc interval or ventricular repolarization

Effects of Avanafil on Blood Pressure When Administered with Nitrates
In a clinical pharmacology trial, a single dose of avanafil 200 mg was shown to potentiate the hypotensive effect of nitrates. The use of avanafil in patients taking any form of nitrates is contraindicated [see Contraindications (4.1)]. A trial was conducted to assess the degree of interaction between nitroglycerin and avanafil, should nitroglycerin be required in an emergency situation after avanafil was taken. This was a single-center, double-blind, randomized, 3-way crossover trial of healthy males from 30 to 60 years of age. Subjects were divided among 5 trial groups with the trial group being determined by the time interval between treatment with trial drug and glyceryl trinitrate administration. Subjects were assigned to trial groups sequentially and hemodynamic results from the previous group were reviewed for serious adverse events (SAEs) before the next group received treatment. Each subject was dosed with all 3 study drugs (avanafil 200 mg, sildenafil citrate 100 mg, and placebo) in random order. Subjects were administered a single dose of 0.4 mg sublingual nitroglycerin (NTG) at pre-specified time points, following their dose of trial drug (0.5, 1, 4, 8 or 12 hours). Overall, 14 (15%) subjects treated with placebo and 28 (28%) subjects treated with avanafil, had ant decreases in standing SBP, defined as greater than or equal to 30 mmHg decrease in SBP, after glyceryl trinitrate administration. Mean maximum decreases are shown in Table 5.

Table 5: Mean Maximum Decreases from Baseline in Sitting and Standing Systolic Blood Pressure/Diastolic Blood Pressure (mmHg) following Placebo or 200 mg Avanafil with 0.4 mg sublingual nitroglycerin

Placebo with nitroglycerin	
Sitting	13.4/11.8
Standing	21.1/16.5
Avanafil with nitroglycerin	
Sitting	21.6/18.2
Standing	28.0/23.5

Like other PDE5 inhibitors, avanafil administration with nitrates is contraindicated. In a patient who has taken avanafil, where nitrate administration is deemed medically necessary in a life threatening situation, at least 12 hours should elapse after the last dose of avanafil before nitrate administration is considered. In such circumstances, nitrates should still only be administered under close

Effects of Avanafil on Blood Pressure When Administered with Alpha-Blockers A single-center, randomized, double-blinded, placebo-controlled, two-period crossover trial was conducted to investigate the potential interaction of avanafil with alpha-blocker agents in healthy male subjects which consisted of two cohorts:

Cohort A (N=24): Subjects received oral doses of doxazosin once daily in the morning at 1 mg for 1 day (Day 1), 2 mg for 2 days (Days 2 to 3), 4 mg for 4 days (Days 4 to 7), and 8 mg for 11 days (Days 8 to 18). On Days 15 and 18, the subjects also received a single oral dose of either 200 mg avanafil or placebo, according to the treatment randomization code. The avanafil or placebo doses were administered 1.3 hours after the doxazosin administration on Days 15 and 18. The co-administration was designed so that doxazosin (T_{max} ~2 hours) and avanafil (T_{max} ~0.7 hours) would reach their peak plasma concentrations at the same time. Cohort B (N=24): Subjects received 0.4 mg daily oral doses of tamsulosin in the morning for 11 consecutive days (Days 1 to 11).

On Days 8 and 11, the subjects also received a single oral dose of either 200 mg avanafil or placebo, according to the treatmen andomization code. The avanafil or placebo doses were administered 3.3 hours after the tamsulosin administration on Days 8 and 11. The co-administration was designed so that tamsulosin (T_{max} ~4 hours) and avanafil (T_{max} ~0.7 hours) would reach their peak plasma concentrations at the same time.

Supine and sitting BP and pulse rate measurements were recorded before and after avanafil or placebo dosing A total of seven subjects in Cohort A (doxazosin) experienced potentially clinically important absolute values or changes from baseline in standing SBP or DBP. Three subjects experienced standing SBP values less than 85 mmHg. One subject experienced a decrease

from baseline in standing SBP greater than 30 mmHg following avanafil. Two subjects experienced standing DBP values less than 45 mmHg following avanafil. Four subjects experienced decreases from baseline in standing DBP greater than 20 mmHg following avanafil. One subject experienced such decreases following placebo. There were no severe adverse events related to hypotension reported during the trial. There were no cases of syncope. A total of five subjects in Cohort B (tamsulosin) experienced potentially clinically important absolute values or changes from

baseline in standing SBP or DBP. Two subjects experienced standing SBP values less than 85 mmHg following avanafil. One subject experienced a decrease from baseline in standing SBP greater than 30 mmHg following avanafil. Two subjects experienced standing DBP values less than 45 mmHg following avanafil. Four subjects experienced decreases from baseline in standing DBP greater than 20 mmHg following avanafil; one subject experienced such decreases following placebo. There were no severe adverse events related to hypotension reported during the trial. There were no cases of syncope. Table 6 presents the placebo-subtracted mean maximum decreases from baseline (95% CI) in systolic blood pressure results for the

24 subjects who received avanafil 200 mg and matching placebo.

Table 6: Placebo-Subtracted Mean (95% CI) Maximum Decreases from Baseline in Standing and Supine Systolic Blood Pressure

Doxazosin	
Supine	-6.0 (-9.1, -2.9)
Standing	-2.5 (-6.5, 1.5)
Tamsulosin	
Supine	-3.1 (-6.4, 0.1)
Standing	-3.6 (-8.1, 0.9)

Blood pressure effects (standing SBP) in normotensive men on stable dose doxazosin (8 mg) following administration of avanafil 200 mg or placebo, are shown in Figure 2. Blood pressure effects (standing SBP) in norm mg) following administration of avanafil 200 mg or placebo are shown in Figure 3. sive men on stable dose tamsulosin (0.4

Figure 2: Mean (SD) Change From Baseline in Standing Systolic Blood Pressure Over Time Following Administration of a Single Dose 200 mg Dose of Avanafil with Doxazosin

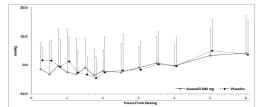
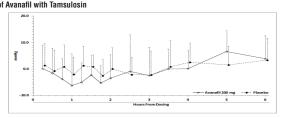


Figure 3: Mean (SD) Change From Baseline in Standing Systolic Blood Pressure Over Time Following Administration of a Single



Effects of Avanafil on Blood Pressure When Administered with Enalapril
A trial was conducted to assess the interaction of enalapril (20 mg daily) and avanafil 200 mg. Single doses of 200 mg avanafil co-administered with enalapril caused a mean maximum decrease in supine systolic/diastolic blood pressure of 1.8/3.5 mmHg compared to placebo), accompanied by a mean maximum increase in pulse rate of 1.0 bpm.

Effects of Avanafil on Blood Pressure When Administered with Amlodipine
A trial was conducted to assess the interaction of amlodipine (5 mg daily) and avanafil 200 mg. Single doses of 200 mg avanafil co-administered with amlodipine caused a mean maximum decrease in supine systolic blood pressure of 1.2 mmHg (compared to placebo), accompanied by a mean maximum increase in pulse rate of 1.0 bpm; the mean maximum decrease in diastolic blood pressure was less than that observed in the placebo group. There was no effect of avanafil on amlodipine plasma concentrations. Concomitant amlodipine was associated with 22% and 70% increases in avanafil C_{max} and AUC, respectively.

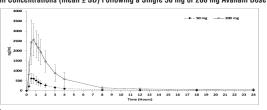
Effects of Avanafil on Blood Pressure When Administered with Alcohol Alcohol and PDE5 inhibitors, including avanafil, are mild systemic vasodilators. The interaction of avanafil with alcohol was evaluated in a clinical pharmacology trial. Alcohol was administered at a dose of 0.5 g/kg, which is equivalent to approximately 3 ounces of 80-proof vodka in a 70-kg male, and avanafil was administered at a dose of 200 mg. All patients consumed the entire alcohol dose within 15 minutes of starting. Blood alcohol levels of 0.057% were confirmed. There were no reports of orthostatic hypotension or dizziness. Additional maximum supine systolic/diastolic blood pressure decreases of 3.5/4.5 mmHg and additional maximum pulse rate increase of 9.3 bpm were observed when avanafil was taken with alcohol compared to alcohol alone. Avanafil did not affect

Effects of Avanafil on Spermatogenesis The effect of avanafil on spermatogenesis was assessed in 181 healthy male volunteers who received avanafil 100 mg or placebo daily for 26 weeks. The results of this randomized, double-blind, placebo-controlled study in 137 subjects who completed the study

through Week 26 and provided 2 semen samples at baseline and at Week 26 showed no adverse effects of avanafil on sperm concentration, total sperm count, sperm motility, sperm normal morphology, and semen volume

Effects of Avanafil on Vision
Single oral doses of Type 5 phosphodiesterase inhibitors have demonstrated transient dose-related impairment of color discri (blue/green), using the Farnsworth-Munsell 100-hue test, with peak effects near the time of peak plasma levels. This finding is stent with the inhibition of PDE6, which is involved in phototransduction in the retinal

Mean avanafil plasma concentrations measured after the administration of a single oral dose of 50 or 200 mg to healthy male volunteers are depicted in Figure 4. The pharmacokinetics of avanafil are dose proportional from 12.5 to 600 mg Figure 4: Plasma Avanafil Concentrations (mean ± SD) Following a Single 50 mg or 200 mg Avanafil Dose



Absorption and Distribution

Avanafil is rapidly absorbed after oral administration, with a median T_{max} of 30 to 45 minutes in the fasted state. When avanafil (200 mg) is taken with a high fat meal, the rate of absorption is reduced, with a mean delay in T_{max} of 1.12 to 1.25 hours and a mean duction in C_{max} of 39% (200 mg). There was an approximate 3.8% decrease in AUC. The small changes in avanafil C_{max} and AUC econsidered of minimal clinical significance; therefore, avanafil may be administered with or without food. The mean accumulation ratio is approximately 1.2. Avanafil is approximately 99% bound to plasma proteins. Protein binding is independent of total drug concentrations, age, renal and hepatic function.

Based upon measurements of avanafil in semen of healthy volunteers 45 to 90 minutes after dosing, less than 0.0002% of the Metabolism and Excretion

Avanafil is cleared predominantly by hepatic metabolism, mainly by the CYP3A4 enzyme and to a minor extent by CYP2C isoform. The plasma concentrations of the major circulating metabolites, M4 and M16, are approximately 23% and 29% that of the parent compound, respectively. The M4 metabolite has an *in vitro* inhibitory potency for PDE5 18% of that of avanafil and M4 accounts for approximately 4% of the pharmacologic activity of avanafil. The M16 metabolite was inactive against PDE5. Avanafil was extensively metabolized in humans. After oral administration, avanafil is excreted as metabolites predominantly in the feces (approximately 62% of administered oral dose) and to a lesser extent in the urine (approximately 21% of the administered oral dose). Avanafil has a terminal elimination half-life of approximately 5 hours.

The pharmacokinetics of a single 200 mg avanafii administered to fourteen healthy elderly male volunteers (65 to 80 years) and eighteen healthy younger male volunteers (18 to 43 years of age) were compared. AUCo to mr increased by 6.8% and Cmax decreased

by 2.1% in the elderly group, compared to the younger group. However, greater sensitivity to medications in some older individuals should be considered [see Use in Specific Populations (8.5)].

Renal Impairment
The pharmacokinetics of a single 200 mg avanafil administered to nine patients with mild (creatinine clearance greater than or equal to 60 and less than 90 mL/min) and to ten patients with moderate (creatinine clearance greater than or equal to 30 to less than 60 mL/min) renal impairment were evaluated. AUCo-m decreased by 2.9% and Cmax increased by 2.8% in patients with mild renal impairment, compared to healthy volunteers with normal renal function. AUC_{0-int} increased by 9.1% and C_{max} decreased by 2.8% in patients with

moderate renal impairment, compared to healthy volunteers with normal renal function. There is no data available for subjects with severe renal insufficiency or end-stage renal disease on hemodialysis [see Use in Specific Populations (8.6)]. The pharmacokinetics of a single 200 mg avanafil administered to eight patients with mild hepatic impairment (Child-Pugh A) and eight patients with moderate hepatic impairment (Child-Pugh B) were evaluated. AUC_{0-lmf} increased by 3.8% and C_{max} decreased by 2.7% in patients with mild hepatic impairment, compared to healthy volunteers with normal hepatic function. AUC_{0-lmf} increased by 11.2% and C_{max} decreased by 51% in patients with moderate hepatic impairment, compared to healthy volunteers with norma

hepatic function. There is no data available for subjects with severe hepatic impairment (Child-Pugh Class C) [see Use in Specific

Drug Interaction Studies

Effect of CYP3A4 Inhibitors on Avanafil: Strong and moderate CYP3A4 inhibitors increase plasma concentrations of avanafil. The effect of strong CYP3A4 inhibitors, ketoconazole and ritonavir, and moderate CYP3A4 inhibitor, erythromycin, on avanafil pharmacokinetics was studied in an open-label, randomized, one-sequence crossover, three-way parallel study.

Fifteen healthy male volunteers received 400 mg ketoconazole (2 tablets containing 200 mg ketoconazole) once daily for 5 days (Days 2 to 6) and a single 50 mg avanafil on Days 1 and 6. Twenty-four hour pharmacokinetics of avanafil on Days 1 and 6 were compared. Co-administration with the strong CYP3A4 inhibitor ketoconazole resulted in an approximate 13-fold increase in AUCo-inf and 3.1-fold increase in Cmax. Fourteen healthy male volunteers received 300 mg ritonavir (3 tablets containing 100 mg ritonavir) twice daily for 1 day (Day 2), 400 mg twice daily for 1 day (Day 3), 600 mg twice daily for 5 days (Days 4 to 8), and a single 50 mg avanafil on Days 1 and 8. Twenty-four hour pharmacokinetics of avanafil on Days 1 and 8 were compared. Co-administration with the strong CYP3A4 inhibitor ritonavir resulted in an approximate 13-fold increase in AUC_{0-mt} and 2.4-fold increase in C_{max} of avanafil.

(2 tablets containing 250 mg erythromycin) every 12 hrs for 5 days (Days 2 to 6) and a single 200 mg avanafil (2 tablets containing 100 mg avanafil) on Days 1 and 6. Twenty-four hour pharmacokinetics of avanafil on Days 1 and 6 were compared. Co-administration with the moderate CYP3A4 inhibitor erythromycin resulted in an

approximate 3.6-fold increase in AUCo-infand 2.0-fold increase in Cmax of avanafil.

The effect of avanafil on warfarin pharmacokinetics and pharmacodynamics was evaluated in a double-blind, randomized, placebocontrolled, two-way crossover study. Twenty-four healthy male volunteers were randomized to receive either 200 mg avanafil or matching placebo for 9 days. On Day 3 of each period, volunteers received a single 25 mg warfarin. Pharmacokinetics of R- and S-warfarin, PT, and INR prior to warfarin dosing and up to 168 hrs after warfarin administration were compared. Platelet aggregation prior to warfarin dosing and up to 24 hrs after warfarin administration were compared. PT, INR, and platelet aggregation did not change with avanafil administration: 23.1 sec, 2.2, and 75.5%, respectively. Co-administration with avanafil resulted in an approximate 1.6% increase in AUCo-m and 5.2% decrease in Cmax of S-warfarin.

Omeprazole, Rosiglitazone, and Desipramine The effect of avanafil on the pharmacokinetics of omenrazole (a CYP2C19 substrate), rosiglitazone (a CYP2C8 substrate), and designamine (a CYP2D6 substrate) was evaluated in an open-label, three cohort, crossover study. Nineteen healthy male volunteers received a single 40 mg omeprazole delayed-release capsule once daily for 8 days (Days 1 to 8), and a single 200 mg avanafil on Day 8. Twelve hour pharmacokinetics of omegrazole on Days 7 and 8 were compared. Co-administration with avanafil resulted in an approximate 5.9% increase in AUCo-er and 8.6% increase in Cress of omeprazole. Twenty healthy male volunteers received a single 8 mg rosiglitazone tablet then a single 200 mg avanafil. Twenty-four hour pharmacokinetics of rosiglitazone with and without avanafil were compared. Co-administration with avanafil resulted in an approximate 2.0% increase in AUCo-er and 14% decrease in Cress of

rosiglitazone. Twenty healthy male volunteers received a single 50 mg desipramine tablet then a single 200 mg avanafil tablet 2 hours after desipramine. Ninety-six hour pharmacokinetics of desipramine with and without avanafil were compared. Co-administration with avanafil resulted in an approximate 5.7% increase in AUCo-m and 5.2% increase in Cmax of desipramine. Avanafil had no effect on CYP1A1/2, 2A6, 2B6 and 2E1 (ICs greater than 100 micromolar) and weak inhibitory effects toward other isoforms (CYP2C8, 2C9, 2C19, 2D6, 3A4). Major circulating metabolites of avanafil (M4 and M16) had no effect on CYPs 1A, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1 and 3A4. Avanafil and its metabolites (M4 and M16) are unlikely to cause clinically significant

nhibition of CYPs 1A, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1 or 3A4. 13 NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis and Impairment of Fertility

Avanafil was not carcinogenic to CD-1 mice when administered daily at doses of 100, 200, or 600 mg/kg/day orally by gavage for at least 98 weeks (approximately 11 times the MRHD on an AUC basis) or to Sprague Dawley rats when administered daily at doses of 100, 300, or 1000 mg/kg/day orally by gavage for at least 100 weeks (approximately 8 times for males and 34 times for females above the MRHD on an AUC basis).

Avanafil was not genotoxic in a series of tests. Avanafil was not mutagenic in Ames assays. Avanafil was not clastogenic in chromosome aberration assays using Chinese hamster ovary and lung cells, or *in vivo* in the mouse micronucleus assay. Avanafil did not affect DNA repair when tested in the rat unscheduled DNA synthesis assay.

In a rat fertility and early embryonic development study administered 100, 300, or 1000 mg/kg/day for 28 days prior to pairing and continued until euthanasia for males, and 14 days prior to pairing to gestation day 7 for females, a decrease in fertility, no or reduced sperm motility, altered estrous cycles, and an increased percentage of abnormal sperm (broken sperm with detached heads) occurred at exposures in males approximately 11 times the human exposure at a dose of 200 mg. The altered sperm effects were reversible at the end of a 9-week drug-free period. Systemic exposure at the NOAEL (300 mg/kg/day) was comparable to the human AUC at

13.2 Animal Toxicology and/or Pharmacology
Repeated oral administration of avanafil in multiple species resulted in signs of centrally-mediated toxicity including ataxia, tremor. convulsion, hypoactivity, recumbency, and/or prostration at doses resulting in exposures approximately 5 to 8 times the MRHD based on C_{max} and 8 to 30 times the MRHD based on AUC.

14 CLINICAL STUDIES Avanafil was evaluated in four randomized, double-blind, placeho-controlled, parallel trials of 2 to 3 months in duration. Avanafil was taken as needed at doses of 50 mg, 100 mg, and 200 mg (Study 1) and 100 mg (Study 2, Study 3 and Study 4). Patients were instructed to take 1 dose of study drug approximately 30 minutes (Study 1 and Study 2) or approximately 15 minutes (Study 4) prior to initiation of sexual activity. Food and alcohol intake was not restricted

In addition, a subset of patients from 2 of these trials were enrolled into an open-label extension trial. In the open-label extension trial, all eligible patients were initially assigned to avanafil 100 mg. At any point during the trial, patients could request to have their dose of avanafil increased to 200 mg or decreased to 50 mg based on their individual response to treatment. The 3 primary outcome measures in Studies 1, 2 and 3 were the erectile function domain of the International Index of Erectile Functior (IEF) and Questions 2 and 3 from Sexual Encounter Profile (SEP). The IIEF is a 4-week recall questionnaire that was administered at baseline and at 4-week intervals during treatment. The IIEF erectile function domain has a 30-point total score, where the higher scores reflect better erectile function. The SEP included diary-based measures of erectile function. Patients recorded information

regarding each sexual attempt made throughout the trial. Question 2 of the SEP asks "Were you able to insert your penis into your partner's vagina?" Question 3 of the SEP asks "Did your erection last long enough for you to have successful inte In Study 4, the primary efficacy variable was the per-subject proportion of sexual attempts that had an erectogenic effect within approximately 15 minutes following dosing, where an erectogenic effect was defined as an erection sufficient for vaginal penetration and that enabled satisfactory completion of sexual intercourse

Results are shown from the three, Phase 3, randomized, double-blind, placebo-controlled, parallel studies, one in the general ED population (Study 1), another in the diabetic population with ED (Study 2), and another in the radical prostatectomy population

Results in the General ED Population (Study 1):

Avanafil was evaluated in 646 men with ED of various etiologies (organic, psychogenic, mixed), in a randomized, double-blinded, parallel, placebo controlled fixed dose trial of 3 months duration. The mean age was 55.7 years (range 23 to 88 years). The population was 85.6% White, 13.2% Black, 0.9% Asian, and 0.3% of other races. The mean duration of ED was approximately 6.5 years. Avanafil

at doses of 50 mg, 100 mg, and 200 mg demonstrated statistically significant improvement in all 3 primary efficacy variables relative to placebo (see Table 7).

	Placebo (N=155)	Avanafil 50 mg (N=154)	Avanafil 100 mg (N=157)	Avanafil 200 mg (N=156)
IEF EF Domain Score				
Endpoint	15.3	18.1	20.9	22.2
Change from baseline†	2.9	5.4	8.3	9.5
p-value*		0.0014	<0.0001	<0.0001
/aginal Penetration (SEP2)				
Endpoint	53.8%	64.3%	73.9%	77.3%
Change from baseline†	7.1%	18.2%	27.2%	29.8%
p-value*	-	0.0009	<0.0001	<0.0001
Successful Intercourse (SEP3))			•

57.1%

43.4%

57.0%

44.2%

< 0.0001

p-value' 0.0002 < 0.000 least-squares estimate from ANCOVA model* comparison to placebo for change from baseline

27.0%

14.1%

Endpoint

Change from baseline¹

Results in the ED Population with Diabetes Mellitus (Study 2) Avanafil was evaluated in ED patients (n=390) with type 1 or type 2 diabetes mellitus in a randomized, double-blind, parallel, placebo-controlled fixed dose trial of 3 months in duration. The mean age was 58 years (range 30 to 78 years). The population was 80.5% White, 17.2% Black, 1.5% Asian, and 0.8% of other races. The mean duration of ED was approximately 6 years. In this trial, avanafil at doses of 100 mg and 200 mg demonstrated statistically significant improvement in all 3 primary efficacy variables as measured by the erectile function domain of the IIEF questionnaire; SEP2 and SEP3 (see Table 8).

41.3%

27.8%

Table 8: Mean Change From Baseline for Primary Efficacy Variables in ED Population with Diabetes Mellitus (Study 2)

	Placebo (N=127)	Avanafil 100 mg (N=126)	Avanafil 200 mg (N=126)
IIEF EF Domain Score			
Endpoint	13.2	15.8	17.3
Change from baseline [†]	1.8	4.5	5.4
p-value*	-	0.0017	<0.0001
Vaginal Penetration (SEP2)			
Endpoint	42.0%	54.0%	63.5%
Change from baseline [†]	7.5%	21.5%	25.9%
p-value*	-	0.0004	<0.0001
Successful Intercourse (SEP3)			
Endpoint	20.5%	34.4%	40.0%
Change from baseline [†]	13.6%	28.7%	34.0%
p-value*	-	<0.0001	<0.0001

† least-squares estimate from ANCOVA model * comparison to placebo for change from baseline

Results in the ED Population following Radical Prostatectomy (Study 3)
The efficacy of Avanafil was evaluated in Study 3 (NCT00895011), a randomized, double-blind, parallel, placebo-controlled fixed dose trial of 3 months in duration. For study inclusion, patients had to have ED following bilateral, nerve-sparing radical prostatectomy. Patients received Avanafil 100 mg or 200 mg once daily. A total of 286 patients were included in the efficacy population: mean age 58.4 years (range 40 to 70 years), 81.5% White, 18.1% Black and 0.3% of other races. Treatment with Avanafil at doses of 100 mg and 200 mg demonstrated statistically significant improvement in all 3 primary efficacy variables relative to placebo (see Table 9). Table 9: Mean Change From Baseline for Primary Efficacy Variables in ED Population Following Radical Prostatectomy (Study 3)

Avanafil 100 mg

effects

side

report

may

Avanafil 200 mg

	(N=96)	(N=94)	(N=96)
IIEF EF Domain Score			
Endpoint	9.3	12.6	14.7
Change from baseline†	1.2	4.7	6.2
p-value*	-	0.0001	<0.0001
Vaginal Penetration (SEP2)			
Endpoint	19.7%	32.5%	40.8%
Change from baseline†	7.5%	22.3%	27.7%
p-value*	-	0.0003	<0.0001
Successful Intercourse (SEP3)			
Endpoint	8.9%	23.4%	26.4%
Change from baseline†	13.9%	28.0%	29.4%
p-value*	-	0.0004	<0.0001
t least-squares estimates were obtained using an a			

Time to Onset of Effect (Study 4)
Avanafil was evaluated in 440 subjects with ED including diabetics (16.4%) and subjects with severe ED (41.4%) in a randomized double-blind, parallel, placebo-controlled study of 2 months duration. The mean age was 58.2 years (range 24 to 86 years). The population was 75.7% White, 21.4% Black, 1.6% Asian, and 1.4% of other races. Subjects were encouraged to attempt intercourse approximately 15 minutes after dosing and used a stopwatch for measurement of time to onset of effect, defined as the time to the first occurrence of an erection sufficient for sexual intercourse.

Avanafil 100 mg and 200 mg demonstrated statistically significant improvements relative to placebo in the primary efficacy variable, percentage of all attempts resulting in an erection sufficient for penetration at approximately 15 minutes after dosing followed by successful intercourse (SEP3) (see Table 10).

Table 10: Percentage of All Attempts Resulting in an Erection Sufficient for Penetration at Approximately 15 minutes After Dosing Followed by Successful Intercourse (SEP3) During the 8-Week Treatment Period in the Time to Onset of Effect (Study 4)

	Placebo (N=136)	Avanafil 100 mg (N=139)	Avanafil 200 mg (N=139)
Percentage of Successful Intercourse (SEP3)			
Mean	14.9	25.9	29.1
Median	0.0	11.1	13.3
p-value*	-	0.001	<0.001

*comparison to placebo using rank-ANCOVA model

16 HOW SUPPLIED/STORAGE AND HANDLING Avanafil tablets, 50 mg are white to off-white, oval shape, biconvex tablets debossed with 'A41' on one side and 'H' on the other side They are supplied as

NDC 31722-440-30 NDC 31722-440-01 Bottle of 100 tablets Avanafil tablets, 100 mg are white to off-white, oval shape, biconvex tablets debossed with 'A42' on one side and 'H' on the other side. They are supplied as

NDC 31722-441-30 NDC 31722-441-01 Bottle of 100 tablets

Avanafil tablets, 200 mg are white to off-white, oval shape, biconvex tablets debossed with 'A43' on one side and 'H' on the other side. They are supplied as Bottle of 30 tablets Bottle of 100 tablets NDC 31722-442-01

Store at controlled room temperature 25°C (77°F); excursions permitted to 15° to 30°C (59° to 86°F). Protect from light [see USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION Advise the patient to read the FDA-approved patient labeling (Patient Information).

Physicians should discuss with patients the contraindication of avanafil tablets with regular and/or intermittent use of organic nitrates Patients should be counseled that concomitant use of avanafil tablets with nitrates could cause blood pressure to suddenly drop to an unsafe level, resulting in dizziness, syncope, or even heart attack or stroke.

Physicians should discuss with patients the appropriate action in the event that they experience anginal chest pain requiring nitroglycerin following intake of avanafil tablets. In such a patient, who has taken avanafil tablets, where nitrate administration is deemed medically necessary in a life-threatening situation, at least 12 hours should elapse after the last dose of avanafit ablets before nitrate administration is considered. In such circumstances, nitrates should still only be administered under close medical supervision with appropriate hemodynamic monitoring. Patients who experience anginal chest pain after taking avanafil tablets should seek mediate medical attention [see Contraindications (4.1) and Warnings and Precautions (5.1)].

17.2 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 upon initiation of sexual activity should be advised to refrain from further sexual activity and should seek immediate medical attention [see Warnings and Precautions (5.1)].

17.3 Concomitant Use with Drugs Which Lower Blood Pressure

Physicians should advise patients of the potential for avanafil tablets to augment the blood pressure-lowering effect of alpha-blockers and other antihypertensive medications [see Warnings and Precautions (5.6), Drug Interactions (7.1), and Clinical Pharmacology (12.2)].

17.4 Potential for Drug Interactions Patients should be advised to contact the prescribing physician if new medications that may interact with avanafil are prescribed by another healthcare provider.

There have been rare reports of prolonged erections greater than 4 hours and priapism (painful erections greater than 6 hours in duration) for this class of compounds. Priapism, if not treated promptly, can result in irreversible damage to the erectile tissue. Physicians should advise patients who have an erection lasting greater than 4 hours, whether painful or not, to seek emergency

Physicians should advise patients to stop use of all PDE5 inhibitors, including avanafil tablets, 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 permanent loss of vision that has been reported rarely in temporal association with the use of 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 avanafil tablets, for these uncommon conditions [see Warnings and Precautions (5.4) and Adverse Reactions (6.2)]. 17.7 Sudden Hearing Loss Physicians should advise patients to stop taking PDE5 inhibitors, including avanafil tablets, and seek prompt medical attention in the event of sudden decrease or loss of hearing. Use of PDE5 inhibitors has been associated with sudden decrease or loss of hearing,

which may be accompanied by tinnitus and dizziness. It is not possible to determine whether these events are related directly to the use of PDE5 inhibitors or to other factors [see Adverse Reactions (6)]. Patients should be made aware that both alcohol and PDE5 inhibitors including avanafil tablets act as mild vasodilators. When mild

vasodilators are taken in combination, blood pressure-lowering effects of each individual compound may be increased. Therefore, physicians should inform patients that substantial consumption of alcohol (e.g., greater than 3 units) in combination with avanafil tablets can increase the potential for orthostatic signs and symptoms, including increase in heart rate, decrease in standing blood pressure, dizziness, and headache [see Warnings and Precautions (5.7) and Clinical Pharmacology (12.2)].

The use of avanafil tablets offers no protection against sexually transmitted diseases. Counseling of patients about the protective

17.10 Recommended Administration

Physicians should discuss with patients the appropriate use of avanafil tablets and its anticipated benefits. It should be explained rhysticans should uscuss with patients the appropriate use of availant labets and its anticipated beliefs, it should be explained that sexual stimulation is required for an erection to occur after taking avanafil tablets. Patients should be counseled regarding the dosing of avanafil tablets. Inform patients that the recommended starting dose of avanafil tablets is 100 mg, taken as early as approximately 15 minutes before initiation of sexual activity. Based on efficacy and tolerability, the dose may be increased to 200 ming taken as early as approximately 15 minutes before sexual activity, or decreased to 50 mg taken approximately 30 minutes before sexual activity. The lowest dose that provides benefit should be used. Patients should be advised to contact their healthcare provider for dose modification.

17.11 Guanylate Cyclase (GC) Stimulators Physicians should discuss with patients the contraindication of avanafil tablets with use of guanylate cyclase stimulators such as riociguat or vericiguat [see Contraindications (4.3)]

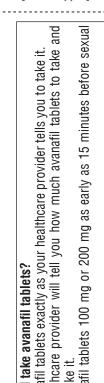


Manufactured for: Piscataway, NJ 08854

bv: HETERO™ Jeedimetla, Hyderabad - 500 055, India.

Revised: 11/2025

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How should I take avanafil tablets?
Take avanafil tablets exactly as your heal
Your healthcare provider will tell you h

Take avanafil tablets 100 mg or 200 mg when to take it.

Take avanafil tablets 50 mg as early as 30 minutes before sexual activity.
Do not take avanafil tablets more than 1 time a day.
Some form of sexual stimulation is needed for an erection to happen after taking avanafil tablets.
Your healthcare provider may change your dose if needed.
You should take the lowest dose of avanafil tablets that works for you. You and your healthcare provider should decide about the lowest dose of avanafil tablets that works for you.
Avanafil tablets may be taken with or without food.
If vou take too much avanafil, call your healthcare provider or go to the nearest

 What should I avoid while taking avanafil tablets?
 Do not drink too much alcohol when taking avanafil tablets (for example, 3 glasses of wine, or 3 shots of whiskey). Drinking too much alcohol when taking avanafil tablets can increase your chances of increasing your heart rate, lowering your blood pressure, dizziness or getting a headache. ıafil tablets? What are the possible side effects of avar

know about Avanafil tablets can cause serious side effects, including:
• See "What is the most important information I should tablets?"

avanafil

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 1 or both eyes. Sudden vision loss in 1 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 such as avanafil tablets, directly cause vision loss. Stop taking avanafil tablets and call your healthcare provider right away if you have sudden vision loss in 1 or both eyes.
sudden hearing decrease or hearing loss. Some people may also have ringing in their ears (tinnitus) or dizziness.

The most common side effects of avanafil

avanafil tablets. effects. of de These are not all of the possible side effects flushing stuffy or runny nose sore throat back pain

Call your doctor for medical advice about si to FDA at 1-800-FDA-1088.

temperature 77°F (25 You **100**m Store avanafil tablets at controlled ro
 Keep avanafil tablets out of the light. How should I store avanafil tablets?

Keep avanafil tablets and all medicines out of the reach of children ffective purp nafil

ective use of avanafil tablets.

uurposes other than those listed in a afil tablets for a condition for which it lets to other people, even if they have trum them. You can ask your healthcare out avanafil tablets that is written for arm ts? General information about the safe and effect Medicines are sometimes prescribed for pur Patient Information leaflet. Do not use avanafil was not prescribed. Do not give avanafil table the same symptoms that you have. It may harr provider or pharmacist for information about health professionals.

What are the ingredients in avanafil table Inactive ingredients: fumaric acid, hydra hydroxyl propyl cellulose, magnesium steaı Active ingredient: avanafil



of their respective owners

trademarks c nited.

propyl cellulose, low-substituted mannitol and sodium bicarbonate.

oxyl rate,



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Administration.

Revised: 11/2025

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