SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

Terazosin 10 mg Tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each tablet contains 11.87 mg of terazosin hydrochloride dihydrate equivalent to 10 mg of terazosin.

For excipients see 6.1.

3. PHARMACEUTICAL FORM

Tablet

Mottled blue, round, flat tablet with bevelled edges.

Embossed with "93" on one-side and "763" on the other side.

4. CLINICAL PARTICULARS

4.1. Therapeutic indications

Terazosin Tablets are indicated for:

The treatment of mild to moderate hypertension.

The symptomatic treatment of urinary obstruction caused by benign prostatic hyperplasia (BPH).

4.2. Posology and method of administration

For oral use.

For the different dosage regimens suitable strengths are available.

The dose of terazosin should be adjusted according to the patient's response. The following is a guide to administration:

Initial dose

The lowest single dose of 1 mg before bedtime for all patients, which should not be exceeded. Strict compliance with this recommendation should be observed to minimise potential acute first-dose hypotensive episodes.

Subsequent doses

Treatment of mild to moderate hypertension.

The single daily dosage may be increased by approximately doubling the dosage at weekly intervals to achieve the desired blood pressure response.

The maintenance dose needs to be adjusted to the patient's response. 2 mg/day may be sufficient with increases up to 10 mg if necessary (clinical studies support the use of 2-10 mg as maintenance dose).

The maximum dose is 20 mg of terazosin per day and should not be exceeded.

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Use with thiazide diuretics and other antihypertensive agents in the treatment of hypertension When adding a thiazide diuretic or another antihypertensive agent to a patient's regimen the dose of terazosin should be reduced or discontinued and retitration carried out if necessary. Caution should be observed when terazosin is administered with thiazides or other antihypertensive agents as hypotension may develop.

Treatment of benign prostatic hyperplasia

The dose may be increased by approximately doubling at weekly or bi-weekly intervals to achieve the desired reduction in symptoms. The maintenance dose is usually 5 to 10 mg once daily. Improvements in symptoms have been detected as early as two weeks after starting treatment with terazosin.

At present there are insufficient data to suggest additional symptomatic relief with doses above 10 mg once daily.

Treatment should be initiated using the 1 mg tablets during seven days, 2 mg tablets during 14 days and 5 mg tablets during 7 days. Response to treatment must be reviewed at four weeks. Transient side effects may occur at each titration step. If any side effects persist, consideration should be given to reducing the dose.

Renal insufficiency

Pharmacokinetic studies indicate that patients with impaired renal function need no alteration in recommended dosage.

Children

Safety and efficacy in children has not been established.

Elderly

Pharmacokinetic studies in the elderly indicate that no major alteration in dosage recommendation is required. However, particular caution should be taken with the titration of the terazosin dose.

If administration is discontinued for more than several days, therapy should be re-instituted using the initial dosage regimen.

Use in patients with hepatic insufficiency:

The terazosin dose should be titrated with particular caution in patients with impaired liver function since terazosin undergoes extensive hepatic metabolism and is mainly excreted by the biliary tract. No clinical experience is available in patients with severe hepatic dysfunction.

Method of administration:

The first tablet of a defined dose strength should be taken in the evening at bedtime. The following tablets of the same strength may be taken in the morning. The tablets should be taken with sufficient amount of liquid (i.e. 1 glass of water).

Terazosin therapy of hypertension is a long-term treatment, which should only be interrupted on medical advice. If it is necessary to stop terazosin therapy, the dose should be re-titrated starting with 1 mg terazosin at bedtime.

4.3. Contraindications

- Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

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- Known sensitivity to other alpha-adrenoceptor blockers, other quinazolines (e.g. prazosin, doxazosin).
- In patients with a history of micturition syncope.

4.4. Special warnings and precautions for use

Terazosin hydrochloride, like other alpha-adrenoceptor blockers, can cause marked lowering of blood pressure, especially postural hypotension and syncope in association with the first dose or first few doses of therapy. A similar effect can be anticipated if therapy is interrupted for more than a few doses and then re-started. Syncope has also been reported with other alpha-adrenoceptor blockers in association with rapid dosage increases or the introduction of another antihypertensive drug. Syncope is believed to be due to an excessive postural hypotensive effect, although occasionally the syncopal episode has been preceded by a bout of severe supraventricular tachycardia with heart rates of 120 to 160 beats per minute.

In clinical trials, the incidence of postural hypotension was greater in BPH patients than in those with hypertension. In these cases, the incidence of postural hypotension events was greater in patients aged 65 years and over (5.6%) than those aged less than 65 years (2.6%).

If administration is discontinued for more than several days, therapy should be re-instituted during the initial dosing regimen.

Before treating the symptoms of BPH with alpha blockers, other causes of impaired urinary flow or urinary symptoms should be excluded. Also where the diagnosis of BPH has been established, it should be confirmed that there is no concomitant obstruction of the upper urinary tract or any signs of infection before treating with terazosin. Patients with benign prostatic hyperplasia, who simultaneously suffer from congestion of the upper urinary tract, chronic urinary tract infection or bladder stones, should not be treated with terazosin.

Terazosin should not be given to patients with bladder overflow, anuria or advanced renal failure.

Due to the risk of an excessive decrease in blood pressure, caution is advised for the concomitant administration of terazosin and thiazides or other antihypertensive medications. If a thiazide diuretic or another antihypertensive medication is added during treatment with terazosin, the terazosin dose must be reduced or the drug discontinued. A new dose-titration is essential. When administering terazosin in addition to other antihypertensives, the dose of the other antihypertensives should be reduced before commencement of therapy and adjusted after discontinuation of terazosin.

Due to the vasodilatory effect of terazosin, it should be administered with caution if the following cardiac conditions are present:

- Pulmonary oedema due to aortic or mitral valve stenosis
- High output cardiac insufficiency
- Right-sided cardiac insufficiency due to pulmonary embolism or pericardial effusion
- Left-sided cardiac insufficiency with low filling pressure

In patients with severe coronary heart disease, a very rapid or excessive decrease in blood pressure can lead to an exacerbation of angina pectoris.

Laboratory Tests:

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Small but statistically significant decreases in haematocrit, haemoglobin, white blood cells, total protein and albumin were observed in controlled clinical trials. These laboratory findings suggest the possibility of haemodilution. Treatment with terazosin for up to 24 months had no significant effect on Prostate Specific Antigen (PSA) levels.

Caution is also recommended, when terazosin is administered concomitantly with drugs, which may influence hepatic metabolism.

Concomitant use of phosphodiesterase-5-inhibitors (e.g. sildenafil, tadalafil, vardenafil) and terazosin may lead to symptomatic hypotension in some patients. In order to minimise the risk for developing postural hypotension the patient should be stable on the alpha-blocker therapy before initiating use of phospodiesterase-5-inhibitors.

The 'Intraoperative Floppy Iris Syndrome' (IFIS, a variant of small pupil syndrome) has been observed during cataract surgery in some patients on or previously treated with tamsulosin. Isolated reports have also been received with other alpha-adrenoceptor blockers and the possibility of a class effect cannot be excluded. As IFIS may lead to increased procedural complications during the cataract operation current or past use of alpha-adrenoceptor blockers should be made known to the ophthalmic surgeon in advance of surgery.

Terazosin 10mg Tablets contain lactose

Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicine.

Use in patients with hepatic insufficiency:

As for all medicaments metabolised in the liver, terazosin should be used with particular caution in patients with impaired hepatic function. As there is no data available in patients with severe hepatic dysfunction, use of terazosin in these patients is not recommended (see section 4.2).

Patients should be warned for symptoms of postural hypotension and be advised to sit or lay down in case they occur (see also 4.7 Effects on ability to drive and use machines and 4.8 Undesirable effects).

Dizziness, light-headedness, weakness and drowsiness may occur.

This has also to be assumed in association with missed doses and subsequent re-initiation of terazosin therapy. Patients should be cautioned about these possible adverse events and the circumstances in which they occur.

To minimise the risk of postural hypotension, patients should be monitored at the start of therapy. As the likelihood of such responses is greater with a higher than recommended starting dose, the recommended dosage regimen should be followed carefully. The patient should take the first dose of terazosin at bedtime and should avoid abrupt changes in position or activities, which could be harmed by dizziness or weariness. This especially applies to the elderly.

4.5. Interactions with other medicinal products and other forms of interaction

In patients receiving terazosin plus ACE inhibitors or diuretics, the proportion reporting dizziness or related side effects was greater than in the total population of terazosin treated patients from clinical trials. Hypotensive effects is enhanced when Terazosin is taken along with adrenergic neurone blockers, alcohol, aldesleukin, alprostadil, anaesthetic (general),

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angiotensin – II receptor antagonists, antipsychotics, anxiolytics and hypnotics, baclofen, betablockers, calcium-channel blockers, clonidine, diazoxide, diuretics, hydralazine, levodopa, monoamine oxidase inhibitors (MAOIs), Methyldopa, Minoxidil, Moxisylyte, Moxonidine, nitrates, sodium nitroprusside, Tizanidine.

Caution should be observed when terazosin is administered with other thiazide diuretic or other antihypertensive agents to avoid the possibility of significant hypotension. When adding terazosin to a diuretic or other antihypertensive agent, dosage reduction and retitration may be necessary.

Terazosin has been given without interaction with analgesics/anti-inflammatories, cardiac glycosides, hypoglycemics, antiarrhythmics, anxiolytics/sedatives, antibacterials, hormones/steroids and drugs used for gout. Hypotensive effects of terazosin are antagonised by the following: corticosteroids, non-steroidal anti-inflammatory drugs (NSAIDs) and oestrogens.

The hypotensive effect is enhanced when terazosin is given with Phosphodiesterase-5-inhibitors (e.g. sildenafil, tadalafil, vardenafil) (see section 4.4). Avoid giving terazosin for 4 hours after Phosphodiesterase-5-inhibitor administration.

4.6. Fertility, pregnancy and lactation

Pregnancy

Terazosin hydrochloride was not teratogenic in either rats or rabbits when administered at oral doses up to 1330 and 165 times, respectively, the maximum recommended human dose. Fetal resorptions occurred in rats dosed with 480mg/kg/day, approximately 1330 times the maximum recommended human dose. Increased fetal resorptions, decreased fetal weight and an increased number of supernumerary ribs were observed in offspring of rabbits dosed with 165 times the maximum recommended human dose. These findings (in both species) were most likely secondary to maternal toxicity. Although no teratogenic effects were seen in animal testing, the safety during pregnancy and lactation has not yet been established. Furthermore, data from animal studies show that terazosin may increase the duration of pregnancy or inhibit labour. Terazosin should not be used therefore in pregnancy unless the potential benefit outweighs the risk.

Breast-feeding

It is not known whether terazosin hydrochloride is excreted in breast milk. Because many drugs are excreted in breast milk, caution should be exercised when terazosin hydrochloride is administered to a nursing woman.

4.7. Effects on ability to drive and use machines

Terazosin tablets have a major influence on the ability to drive and use machines. Dizziness, light-headedness or drowsiness may occur with the initial dose or in association with missed doses and subsequent reinitiation of terazosin therapy. Patients should be cautioned about these possible adverse effects and the circumstances in which they may occur and advised to avoid driving or hazardous tasks for approximately the first 12 hours after the initial dose or when the dose is increased.

4.8. Undesirable effects

Terazosin, in common with other alpha-adrenoreceptor antagonists, may cause syncope. Syncopal episodes have occurred within 30 to 90 minutes of the initial dose of the drug.

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Syncope has occasionally occurred in association with rapid dosage increases or the introduction of another antihypertensive agent.

In clinical trials in hypertension, the incidence of syncopal episodes was approximately 1%. In most cases, this was believed to be due to an excessive postural hypotensive effect although occasionally the syncopal episode has been preceded by a bout of tachycardia with heart rates of 120 to 160 beats per minute.

If syncope occurs the patient should be placed in a recumbent position and given supportive treatment as necessary.

Dizziness, light-headedness or fainting may occur when standing up quickly from a lying or sitting position. Patients should be advised of this possibility and instructed to lie down if these symptoms appear and then sit for a few minutes before standing to prevent re-occurrence.

These adverse effects are self-limiting and, in most cases, do not recur after the initial period of therapy or during subsequent titration.

Adverse drug effects reported with terazosin from multiple sources including clinical trials and spontaneous reports:

System Organ Class	Frequency	Adverse reaction
Blood and lymphatic system disorder	Not known	Thrombocytopenia
Immune system disorders	Not known	Anaphylactoid reaction
Psychiatric disorders	Not known	Depression, nervousness, anxiety, insomnia
Nervous system disorders	Not known	Dizziness, somnolence, headache, vertigo
Eye disorders	Not known	Blurred vision, amblyopia, visual impairment, conjunctivitis, abnormal vision
Ear and labyrinth disorders	Not known	Tinnitus
Cardiac disorders	Not known	Palpitations , tachycardia, arrhythmia, atrial fibrillation
Vascular disorders	Not known	Postural hypotension, syncope, vasodilatation

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Respiratory, thoracic and mediastinal disorders	Not known	Nasal congestion, rhinitis, dyspnoea, sinusitis, bronchitis, epistaxis, flu symptoms, pharyngitis, cold symptoms, cough
Gastrointestinal disorders	Not known	Nausea, abdominal pain, constipation, diarrhoea, dry mouth, dyspepsia, flatulence, vomiting
Skin and subcutaneous tissue disorders	Not known	Pruritus, rash, hyperhidrosis, angioedema
	Very rare	Urticaria
Musculoskeletal and connective tissue disorders	Not known	Back pain, pain in extremity, neck pain, shoulder pain, gout, arthralgia, arthritis, joint disorders, myalgia
Renal and urinary disorders	Not known	Pollakiuria, urinary tract infection and urinary incontinence (primarily reported in postmenopausal women)
Reproductive system and breast disorders	Not known	Libido decreased, erectile dysfunction, priapism, impotence
General disorders and administration site conditions	Not known	Asthenia, peripheral oedema, oedema, chest pain, face oedema, pyrexia, sweating
Investigations	Not known	Weight increased. Decreased haematocrit, decreased haemoglobin, decreased white blood cell count, decreased total protein and decreased blood albumin (suggestive of haemodilution) Treatment with terazosin for up to 24 months had no significant effect on prostate specific antigen (PSA) levels.

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Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the Yellow Card Scheme Website: www.mhra.gov.uk/yellowcard or search for MHRA Yellow Card in the Google Play or Apple App Store.

4.9. Overdose

Symptoms

Acute hypotension

Management

Cardiovascular support is of first importance. Restoration of blood pressure and normalisation of heart rate may be accomplished by keeping the patient in a supine position. If this measure is inadequate, shock should first be treated with volume expanders and, if necessary, vasopressors could then be used. Renal function should be monitored and general supportive measures applied as required. Dialysis may not be of benefit since laboratory data indicate that terazosin is highly protein bound.

5. PHARMACOLOGICAL PROPERTIES

5.1. Pharmacodynamic properties

Pharmacotherapeutic group: alpha-adrenoreceptor antagonist

ATC code: G04C A03

Mechanism of action and Pharmacodynamic effects

Hypertension

Although the exact mechanism of the hypotensive action is not established, the relaxation of peripheral blood vessels appears to be produced mainly by competitive antagonism of post-synaptic alpha-1-adrenoceptors. Terazosin usually produces an initial gradual decrease in blood pressure followed by a sustained antihypertensive action.

Clinical experience indicates that a 2-5% decrease in total cholesterol plasma concentration and a 3-7% decrease in the combined LDLc + VLDLc fraction plasma concentration from pretreatment values are associated with the administration of therapeutic doses of terazosin.

In clinical trials, plasma concentrates of total cholesterol and combined low density and very low density lipoproteins were found to be slightly reduced following Terazosin administration. Additionally, the increase in total cholesterol seen with other hypertensive agents did not occur when these were used in combination with Terazosin.

Benign Prostatic Hyperplasia

Studies suggest that alpha-1-adrenoreceptor antagonism is useful in improving the urodynamics in patients with chronic bladder obstruction such as in benign prostatic hyperplasia (BPH).

The symptoms of BPH are caused mainly by the presence of an enlarged prostate and by the increased smooth muscle tone of the bladder outlet and prostate, which is regulated by alphal-adrenergic receptors.

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Clinical efficacy and safety

In <u>in-vitro</u> experiments, terazosin has been shown to antagonise phenylephrine-induced contractions of human prostatic tissue. In clinical trials terazosin has been shown to improve the urodynamics and symptomatology in patients with BPH.

5.2. Pharmacokinetic properties

Absorption

Terazosin is well-absorbed (80-100%). Terazosin has a minimal "first pass" effect and almost the complete dose of terazosin is systematically available. The plasma concentration of the parent drug is a maximum about 1 hour post administration and declines with a half-life of approximately 12 hours. Food has little or no effect on bioavailability.

Distribution

Approximately 90-94% of terazosin is bound to plasma proteins. Protein binding is independent of total active substance concentrations.

Biotransformation

Main metabolites of terazosin are caused by demethylation and conjugation.

Elimination

Approximately 10% and 20% of orally administered terazosin is excreted as unchanged active substance in urine and in faeces, respectively. Approximately 40% of the administered dose of terazosin is eliminated in urine and 60% in faeces. The total elimination half-life is approximately 8-13 hours.

Linearity/non-linearity of pharmacokinetics

After oral dosing of terazosin AUC and Cmax increase in proportion with dose over the recommended dose range (2-10 mg).

5.3. Preclinical safety data

Preclinical data reveal no special hazards for humans based on conventional studies of safety pharmacology.

No evidence of a genotoxic effect of terazosin has been reported from in vitro and in vivo investigations of the mutagenic potential of the substance.

Decreased fertility and testicular atrophy were seen in rats at repeated administration of doses $\geq 20\text{-}30$ times higher than the maximum recommended human dose. Foetal resorptions, decreased foetal weights, increased number of supernumerary ribs and decreased post-natal survival were noted in reproductive toxicity studies in rats and rabbits at maternally toxic doses (60-280 times the maximum recommended human dose).

Carcinogenicity:

In male rats, terazosin induced benign adrenal medullary tumours at the highest administered dose corresponding to 175 times the maximum human dose. No such occurrences were seen in female rats or in a similar study in mice. The relevance of these findings with respect to the clinical use of the active substance in man is unknown.

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6. PHARMACEUTICAL PARTICULARS

6.1. List of Excipients

Lactose monohydrate Maize starch Povidone (K-30) Crospovidone Talc

Magnesium stearate (E572)

Indigo carmine (E132)

6.2. Incompatibilities

Not applicable

6.3. Shelf Life

36 months

6.4. Special Precautions for Storage

Do not store above 25°C. Store in the original package.

6.5. Nature and Contents of Container

Transparent or white opaque PVdC coated PVC film with hard temper aluminium foil blisters in packs of 20 (including samples), 28 (including samples), 50, 84, 100 tablets.

Not all pack sizes may be marketed

6.6. Instruction for Use and Handling

No special requirements.

7. MARKETING AUTHORISATION HOLDER

TEVA UK Limited, Ridings Point, Whistler Drive, Castleford, WF10 5HX, United Kingdom

8. MARKETING AUTHORISATION NUMBER

PL 00289/0366

9. DATE OF FIRST AUTHORISATION/RENEWAL OF AUTHORISATION

26/07/2000

10. DATE OF (PARTIAL) REVISION OF THE TEXT

27/03/2023

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