SCHEDULING STATUS: S5

1. NAME OF THE MEDICINE

XANOR® 0,25 mg tablets

XANOR® 0,5 mg tablets

XANOR® 1,0 mg tablets

XANOR® 2,0 mg tablets

XANOR® SR 0,5 mg tablets

XANOR® SR 1,0 mg tablets

XANOR® SR 2,0 mg tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each XANOR 0,25 mg tablet contains 0,25 mg alprazolam and 0,1125 mg sodium benzoate (preservative).

Each XANOR 0,5 mg tablet contains 0,5 mg alprazolam and 0,1125 mg sodium benzoate (preservative).

Each XANOR 1,0 mg tablet contains 1,0 mg alprazolam and 0,1125 mg sodium benzoate (preservative).

Each XANOR 2,0 mg tablet contains 2,0 mg alprazolam and 0,225 mg sodium benzoate (preservative).

Each XANOR SR tablet contains 0,5 mg, 1,0 mg or 2,0 mg alprazolam.

Contains sugar (lactose monohydrate).

Each XANOR 0,25 mg, 0,5 mg and 1,0 mg tablet contains 96,0 mg lactose monohydrate.

Each XANOR 2,0 mg tablet contains 192,0 mg lactose monohydrate.

Each XANOR SR 0,5 mg, 1,0 mg or 2,0 mg tablet contains 221,7 mg lactose monohydrate.

For full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Tablets

XANOR 0,25 mg tablets are white, ovoid shaped, embossed with "Upjohn 29" on the one side and scored on the other side.

XANOR 0,5 mg tablets are pink, ovoid shaped, embossed with "Upjohn 55" on the one side and scored on the other side.

XANOR 1,0 mg tablets are lavender, ovoid shaped, embossed with "Upjohn 90" on the one side and scored on the other side.

XANOR 2,0 mg tablets are white capsule shaped, three scored tablets, embossed with "U94".

XANOR SR 0,5 mg tablets are round, blue, convex tablets with "P&U 57" on one side.

XANOR SR 1,0 mg tablets are round, white, convex tablets with "P&U 59" on one side.

XANOR SR 2,0 mg tablets are pentagonal, blue tablets with "P&U 66" on one side.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

XANOR is indicated for the treatment of:

- SHORT-TERM RELIEF OF SYMPTOMS OF ANXIETY
- TREATMENT OF ANXIETY DISORDERS

Anxiety disorder is a condition corresponding most closely to the latest APA Diagnostic and Statistical Manual (DSM) diagnosis of generalised anxiety disorder.

Anxiety or tension associated with the stress of everyday life usually does not require treatment with an anxiolytic.

Diagnostic criteria for generalised anxiety disorder:

A. Generalised, persistent anxiety is manifested by symptoms from three of the following four categories:

1. Motor tension:

Shakiness, jitteriness, jumpiness, trembling, muscle aches, tension, eyelid twitch, inability to relax, furrowed brow, strained face, restlessness and easily startled.

2. Autonomic hyperactivity:

Heart pounding or racing, sweating, cold clammy hands, dry mouth, light-headedness, dizziness, paraesthesias, upset stomach, diarrhoea, discomfort in the pit of the stomach, hot or cold spells, lump in the throat, flushing, pallor, high resting pulse and respiration rate.

3. Apprehensive expectation:

Fear, anxiety, worry, rumination, and anticipation of misfortune to self and others.

4. Vigilance and scanning:

Hyper attentiveness resulting in distractibility, difficulty in concentrating, insomnia, feeling "on edge", impatience and irritability.

- B. The anxious mood has been continuous for at least one month.
- C. Not due to another mental disorder, such as depressive disorder or schizophrenia.
- D. At least 18 years of age.
- ANXIETY ASSOCIATED WITH DEPRESSION
- MIXED ANXIETY-DEPRESSION
- DEPRESSION

Depression can be variously described as neurotic depression, reactive depression, major depressive disorder, etc, depending upon local psychiatric nosology. Usage has not been established in depression with psychiatric features, in bipolar disorders or in "endogenous" depression (i.e. severely depressed inpatients).

PANIC DISORDERS

This includes panic disorder with or without agoraphobia. The essential feature of panic disorder is the unexpected panic attack, a sudden onset of intense apprehension, fear, or terror.

Panic disorder is an illness characterised by recurrent panic attacks. Later in the course of this disturbance, certain issues e.g. driving a car or being in a crowded place, may become associated with having a panic attack. These panic attacks are not triggered by situations in which the person is the focus of others' attention (as in social phobia).

Diagnostic criteria for panic disorder:

A. At least three panic attacks within a three-week period in circumstances other than during marked exertion or in a life-threatening situation. The attacks are not precipitated by exposure

to a circumscribed phobic stimulus.

B. Panic attacks are manifested by discrete periods of apprehension or fear, and at least four of the following symptoms appear during each attack: dyspnoea, palpitations, chest pain or discomfort, choking or smothering sensations, dizziness, vertigo or unsteady feelings, feelings of unreality, paraesthesias (tingling in hands or feet), hot and cold flushes, sweating, faintness, trembling or shaking, smothering sensations, dizziness.

XANOR is indicated for use of up to six months duration for anxiety and depression and for up to eight months in the treatment of panic disorder with or without some phobic avoidance. The effectiveness for long-term use, exceeding six months has not been established.

4.2 Posology and method of administration

Patients should be periodically re-assessed and dosage adjustments made, as appropriate.

The optimum dose of XANOR tablets should be individualised based upon the severity of the symptoms and individual patient response. In patients who require higher doses, dosage should be increased cautiously to avoid adverse effects.

When higher dosage is required, the evening dose should be increased before the daytime dose. In general, patients who have not previously received psychotropic medications will require somewhat lower doses than those previously treated with minor tranquillisers, antidepressants or hypnotics or those with a history of chronic alcoholism. It is recommended that the general principle of using the lowest effective dose be followed in elderly or debilitated patients to preclude the development of ataxia or over sedation.

Posology

XANOR tablets	Usual starting dose*	Usual dose range
Anxiety	0,25 to 0,5 mg given 3	0,5 to 4,0 mg daily, given in
	times daily	divided doses
Mixed anxiety/	0,5 mg given 3 times daily	1,5 to 4,5 mg daily, given in
depression		divided doses
Anxiety associated with		

depression		
Panic disorders	0,5 – 1,0 mg given at	The dose should be adjusted to
	bedtime or 0,5 mg three	patient response. Dosage
	times daily	adjustments should be in
		increments no greater than 1 mg
		every three to four days. With
		XANOR tablets, additional doses
		can be added until a three times
		daily or four times daily schedule
		is achieved. The mean dose in a
		large multi-clinic study was 5,7 ±
		2,27 mg with occasional patients
		requiring a maximum of 10 mg
		daily.
Geriatric patients	0,25 mg given two or three	0,25 to 0,75 mg daily, given in
or in the presence of	times daily	divided doses; to be gradually
debilitating disease		increased if needed and
		tolerated
Anxiety	1 mg daily, in one or two	0,5 to 4,0 mg daily, in one or two
	doses	doses
Mixed anxiety/	1 mg daily, in one or two	0,5 to 4,5 mg daily, in one or two
depression Anxiety	doses	doses
associated with		
depression		
Panic disorders	0,5 – 1,0 mg given at	In clinical trials the mean
. amo disordors	bedtime or 0,5 mg two	maintenance dose was between
	times daily	5 and 6 mg per day given as a
		single daily dose or divided into

		two doses daily, with occasional
		patients needing up to 10 mg per
		day. The dose should be
		adjusted to patient response,
		with dose increments of no
		greater than 1 mg in the daily
		dose every three to four days
Geriatrics patients	0,5 to 1,0 mg daily, given	0,5 to 1 mg daily; may be
	in one or two doses	gradually increased if needed
		and tolerated

^{*} If side effects occur, the dose should be lowered (see section 4.4).

To discontinue treatment in patients taking XANOR tablets, the dosage should be reduced slowly in keeping with good medical practice. It is suggested that the daily dosage of XANOR be decreased by no more than 0,5 mg every three days. Some patients may require an even slower dosage reduction (see section 4.4).

Method of administration

XANOR SR tablets may be administered once daily, preferably in the morning.

The XANOR SR tablets should be taken intact; they should not be chewed, crushed or broken.

4.3 Contraindications

- XANOR is contraindicated in patients with known hypersensitivity to benzodiazepines, alprazolam, or to any component of these formulations.
- XANOR is not recommended for patients whose primary diagnosis is schizophrenia.
- Concomitant administration with antiretroviral protease inhibitors, ketoconazole, as the elimination of XANOR is delayed several fold.

4.4 Special warnings and precautions for use

XANOR usage has not been established in certain types of depression (see section 4.1).

Upjohn South Africa (Pty) Ltd Xanor 0,25 mg, 0,5 mg, 1,0 mg and 2,0 mg tablets Xanor SR 0,5 mg, 1,0 mg and 2,0 mg tablets

Final approved PI - 09 July 2020

XANOR must be used with caution in patients with impaired renal or hepatic function, pulmonary

disease or limited pulmonary reserve.

XANOR produces additive CNS depressant effects when co-administered with alcohol or other

medicines producing CNS depression.

Habituation and emotional/physical dependence may occur with XANOR. The risk of

dependence increases with higher doses and long-term use and is further increased in patients

with a history of alcoholism or drug abuse. Caution should be particularly used when prescribing

XANOR to patients who are prone to abuse drugs (e.g. alcoholics and drug addicts) because of

their predisposition to habituation and dependence.

Withdrawal symptoms have occurred following rapid decrease or abrupt discontinuance of

XANOR. These can range from mild dysphoria and insomnia to a major syndrome which may

include abdominal and muscle cramps, vomiting, sweating, tremor, and convulsions. In addition,

withdrawal seizures have occurred upon rapid decrease or abrupt discontinuation of therapy with

XANOR and special care must be taken in the treatment of epileptic patients. See section 4.2

for dose reduction during withdrawal period.

XANOR should be avoided in psychotic patients and patients suffering from mental depression

unless there is a marked component of anxiety in their illness.

Panic disorders have been associated with primary and secondary major depressive disorders

and increased reports of suicide among untreated patients. Therefore, the same precaution must

be exercised when using the higher doses of XANOR in treating patients with panic disorders as

is exercised with the use of any psychotropic medicines in treating depressed patients or those

in whom there is reason to expect concealed suicidal ideation or plans.

Episodes of hypomania and mania have been reported in association with the use of XANOR in

patients with depression.

Patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or

glucose-galactose malabsorption should not take this medicine.

Paediatric population

The safety and efficacy of XANOR has not been established in children under the age of 18

years.

4.5 Interaction with other medicines and other forms of interaction

The steady state plasma concentrations of imipramine and desipramine have been reported to

be increased an average of 31 and 20 %, respectively, by the concomitant administration of

XANOR tablets in doses up to 4 mg/day. The clinical significance of these changes is unknown.

Pharmacokinetic interactions can occur when XANOR is administered along with medicines that

interfere with its metabolism. Compounds which inhibit certain hepatic enzymes (particularly

cytochrome P450IIIA4) may increase the concentration of XANOR and enhance its activity. Data

from clinical and in vitro studies with XANOR, and clinical studies with medicines metabolised

similarly to XANOR provide evidence for varying degrees of interaction and possible interaction

with XANOR for a number of medicines. Based on the degree of interaction and the type of data

available, the following recommendations are made:

· Caution and consideration of dose reduction is recommended when XANOR is co-

administered with nefazodone, fluvoxamine, and cimetidine.

Caution is recommended when XANOR is co-administered with fluoxetine, oral

contraceptives, sertraline, diltiazem, or macrolide antibiotics such as erythromycin and

troleandomycin.

4.6 Fertility, pregnancy and lactation

Pregnancy

The safety of XANOR during pregnancy and lactation has not been established. The potential

for congenital malformations in children of patients who have received XANOR during pregnancy

exists.

XANOR should not be administered during labour. Given during labour, it crosses the placenta

and may cause the floppy-infant syndrome characterised by central respiratory depression,

hypothermia and poor sucking.

Breastfeeding

XANOR should not be administered to mothers breastfeeding their infants, since XANOR is excreted in human breast milk.

4.7 Effects on ability to drive and use machines

Caution patients about using XANOR while operating motor vehicles or other dangerous activities until it is established that they do not become impaired while taking XANOR.

4.8 Undesirable effects

The table below contains adverse events categorised as follows utilising the incidence rates: Very common \geq 1/10 (\geq 10 %), Common \geq 1/100 and < 1/10 (\geq 1 % and < 10 %), Uncommon \geq 1/1 000 and < 1/100 (\geq 0,1 % and < 1 %), Rare \geq 1/10 000 and < 1/1 000 (\geq 0,01 % and < 0,1 %), Very rare < 1/10 000 (< 0,01 %).

Undesirable effects associated with alprazolam therapy in patients participating in controlled clinical studies were as follows:

MedDRA	Frequency	Undesirable effects
System Organ Class		
Metabolism and	Common	Decreased appetite
nutrition disorders		
Psychiatric disorders	Common	Confusional state, depression, irritability,
		libido decreased
	Uncommon	Aggression, insomnia, loss of libido, mood
		disorder, nervousness
	Rare	Hallucinations, agitation, rage
Nervous system	Very common	Sedation, somnolence
disorders	Common	Ataxia, balance impaired, coordination
		abnormal, dizziness, headache, memory
		impairment, dysarthria, hypersomnia, lethargy
	Uncommon	Amnesia, increased activity, tremor

	Rare	Intellectual impairment, slurred speech
Eye disorders	Common	Vision blurred
	Rare	Increased intraocular pressure
Gastrointestinal	Common	Constipation, nausea, dry mouth
disorders	Uncommon	Diarrhoea, vomiting
Hepatobiliary	Rare	Abnormal liver function
disorders		
Skin and	Rare	Dermatitis
subcutaneous tissue		
disorders		
Musculoskeletal and	Uncommon	Muscle twitching, muscle weakness
connective tissue		
disorders		
Renal and urinary	Uncommon	Enuresis, urinary frequency
disorders	Rare	Urinary retention
Reproductive system	Uncommon	Menstrual irregularities
and breast disorders	Rare	Sexual dysfunction
General disorders and	Common	Fatigue
administration site		
conditions		
Investigations	Uncommon	Jaundice, weight decreased, weight increased

Post-marketing surveillance

The following post-marketing events have been reported with XANOR:

MedDRA	Frequency	Undesirable effects
System Organ Class		
Endocrine disorders	Less frequent	Hyperprolactinaemia
Psychiatric disorders	Less frequent	Hypomania, mania (see section 4.4), hallucination, anger, aggression, hostility,

		agitation, libido disorder, abnormal thinking,
		psychomotor hyperactivity
Nervous system	Less frequent	Dystonia
disorders	Less frequent	Autonomic nervous system imbalance
Gastrointestinal	Less frequent	Gastrointestinal disorder
disorders		
Hepatobiliary	Less frequent	Hepatitis, abnormal hepatic function, jaundice
disorders		
Skin and	Less frequent	Dermatitis
subcutaneous tissue	Less frequent	Angioedema
disorders		
Renal and urinary	Less frequent	Incontinence, urinary retention
disorders		
Reproductive system	Less frequent	Sexual dysfunction, irregular menstruation
and breast disorders		
General disorders and	Less frequent	Peripheral oedema
administration site		
conditions		
Investigations	Less frequent	Increased intraocular pressure

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Health care providers are asked to report any suspected adverse reactions to SAHPRA via the "6.04 Adverse Drug Reaction Reporting Form", found online under SAHPRA's publications: https://www.sahpra.org.za/Publications/Index/8.

4.9 Overdose

Symptoms of overdose with XANOR are extensions of its pharmacological action and include

Upjohn South Africa (Pty) Ltd

Xanor 0,25 mg, 0,5 mg, 1,0 mg and 2,0 mg tablets

Xanor SR 0,5 mg, 1,0 mg and 2,0 mg tablets

Final approved PI - 09 July 2020

drowsiness, slurred speech, motor incoordination, coma and respiratory depression. Serious

sequelae are rare unless other medicines and/or ethanol are concomitantly ingested. Treatment

of overdosage is primarily supportive of respiratory and cardiovascular function. The value of

dialysis has not been determined. Flumazenil may be used as an adjunct to the management of

respiratory and cardiovascular function associated with overdose.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Category and class: A 2.6 Tranquillisers

Alprazolam is an anxiolytic agent of the benzodiazepine group. Benzodiazepines, including

alprazolam, are thought to bind to central nervous system benzodiazepine receptors, thereby

increasing the affinity of the receptor for gamma-aminobutyric acid (GABA). GABA, an inhibitory

neurotransmitter, modulates the activity of other neurotransmitter systems, including the

noradrenergic system.

5.2 Pharmacokinetic properties

The pharmacokinetics of alprazolam are linear over the recommended dosage range, with

plasma concentrations being proportional to dose given. Alprazolam is almost completely

bioavailable following oral administration. The bioavailability and pharmacokinetic characteristics

of XANOR tablets or XANOR SR tablets are comparable, except for a slower rate of absorption

of alprazolam from XANOR SR tablets. The slower absorption rate for XANOR SR tablets results

in peak plasma alprazolam concentrations that are approximately one-half that of an equivalent

dose of XANOR tablets; peak concentrations occur within one to two hours after a single dose

of XANOR tablets, and 5 to 11 hours after a single dose of XANOR SR tablets.

Steady-state plasma concentrations are achieved within three to four days of continuous dosing

with either dosage form. When equivalent daily doses are given, steady-state peak and trough

plasma alprazolam concentrations for XANOR SR tablets given once or twice a day are

comparable to XANOR tablets given three or four times a day.

Alprazolam and its metabolites are excreted primarily in the urine. The predominant metabolites

are alpha-hydroxy-alprazolam, 4-hydroxy alprazolam, and a benzophenone derived from alprazolam. Although they possess some pharmacological activity, the plasma levels of these metabolites are extremely low during chronic dosing. In vitro, alprazolam is bound (80 %) to

human serum protein.

The plasma elimination half-life of alprazolam has been found to be about 11 to 15 hours in healthy adults. A comparable elimination half-life for XANOR SR tablets indicates that the metabolism and elimination of alprazolam are the same for both dosage forms. Alprazolam clearance has been reported to be delayed in patients with impaired hepatic and renal function, alcoholism, in elderly or obese patients, and by the co-administration of certain medicines.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

XANOR 0,25 mg, 0,5 mg, 1,0 mg and 2,0 mg tablets:

Colloidal silicon dioxide

Docusate sodium with sodium benzoate

Lactose monohydrate

Magnesium stearate

Microcrystalline cellulose

Starch with erythrosine sodium or

FD & C blue as colourants

XANOR SR 0,5 mg, 1,0 mg and 2,0 mg tablets:

Cellulose methylhydroxypropyl

Lactose monohydrate

Magnesium stearate

Silicon colloidal dioxide

FD & C blue as colourant

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

XANOR 0,25 mg, 0,5 mg, 1,0 mg tablets: 36 months

XANOR 2,0 mg tablets: 60 months

XANOR SR 0,5 mg, 1,0 mg, 2,0 mg tablets: 24 months

6.4 Special precautions for storage

XANOR 0,25 mg, 0,5 mg, 1,0 mg, 2,0 mg tablets: Store at or below 30 °C.

XANOR SR 0,5 mg, 1,0 mg, 2,0 mg tablets: Store at or below 25 °C.

Keep tablets packed in bottles tightly closed.

Keep tablets in the carton until use.

Protect from light.

6.5 Nature and contents of container

XANOR 0,25 mg and 1,0 mg are packed in blister packs of 30 and 100 tablets.

XANOR 0,5 mg is packed in blister packs of 30 and 100 tablets and in bottles containing 500 tablets.

XANOR 2,0 mg is packed in bottles containing 30 and 100 tablets.

XANOR SR tablets are packed in foil blisters of 60 tablets.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal

No special requirements.

7. HOLDER OF CERTIFICATES OF REGISTRATION

Upjohn South Africa (Pty) Ltd

85 Bute Lane

Sandton

2196

South Africa

Tel.: +27(0)11 320 6000 / 0860 734 937 (Toll-free South Africa)

8. REGISTRATION NUMBERS

XANOR 0,25 mg tablets: M/2.6/233

XANOR 0,5 mg tablets: M/2.6/234

XANOR 1,0 mg tablets: M/2.6/235

XANOR 2,0 mg tablets: 27/2.6/0096

XANOR SR 0,5 mg tablets: 29/2.6/0504

XANOR SR 1,0 mg tablets:29/2.6/0505

XANOR SR 2,0 mg tablets: 29/2.6/0506

9. DATE OF FIRST AUTHORISATION

XANOR 0,25 mg, 0,5 mg, 1,0 mg tablets: 23 May 1983

XANOR 2,0 mg tablets: 20 October 1993

XANOR SR 0,5 mg, 1,0 mg, 2,0 mg tablets: 21 June 1996

10. DATE OF REVISION OF THE TEXT

07 March 2014

BOTSWANA: S1C

XANOR 0,25 mg - Reg. no.: B9312185

XANOR 0,5 mg - Reg. no.: B9312190

XANOR 1,0 mg - Reg. no.: B9312195

NAMIBIA: NS3

XANOR 0,25 mg - Reg. no.: 90/2.6/001366

XANOR 0,5 mg - Reg. no.: 90/2.6/001367

XANOR 1,0 mg - Reg. no.: 90/2.6/001368

XANOR 2,0 mg - Reg. no.: 04/2.6/0746

XANOR SR 0,5 mg - Reg. no.: 04/2.6/0747

XANOR SR 1,0 mg - Reg. no.: 04/2.6/0748

XANOR SR 2,0 mg - Reg. no.: 04/2.6/0749