1. NAME OF THE DRUG PRODUCT

Brand Name: - Aquatix Pregabalin capsule 300 mg

Generic Name: Pregabalin capsule 300 mg

Strength: 300 mg

Dosage form: Hard gelatin capsule

Rout of administration: Oral

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Label claim:

Each Hard gelatin capsule contains:

Pregabalin BP 300 mg

Excipients Q.S.

Approved colour used in Empty hard gelatine shell

UNIT FORMULA:

Sr.	Ingredients	Specifi-	Quantity/	Function
No		cation	capsules	
1	Pregabalin*	BP	300.00 mg	Active
2	Lactose	BP	160.0 mg	Diluent
3	Starch(SP-Maize	BP	75.00 mg	Diluent
	starch powder)			
4	Sodium Lauryl	BP	5.00 mg	Disintegrant
	sulphate			
5	Calcium Silicate	USP	5.00 mg	Filler
6	Magnesium	BP	5.00 mg	Lubricant
	Stearate			
7	Hard Gelatin	IH	01.Nos.	Capsule shell
	Capsules Size "0"			
	Colour: Red/white			

3. PHARMACEUTICAL FORM

Hard Gelatin Capsule

4. CLINICAL PARTICULARS

4.1 Therapeutic indications:

Neuropathic pain

Pregabalin Capsules 300Mg is indicated for the treatment of peripheral and central neuropathic pain in adults.

Epilepsy

Pregabalin Capsules 300Mg is indicated as adjunctive therapy in adults with partial seizures with or without secondary generalisation.

Generalised Anxiety Disorder

Pregabalin Capsules 300Mg is indicated for the treatment of Generalised Anxiety Disorder (GAD) in adults.

4.2 Posology/Dosage and method of administration:

Posology

The dose range is 150 to 600 mg per day given in either two or three divided doses.

Neuropathic pain

Pregabalin treatment can be started at a dose of 150 mg per day given as two or three divided doses. Based on individual patient response and tolerability, the dose may be increased to 300 mg per day after an interval of 3 to 7 days, and if needed, to a maximum dose of 600 mg per day after an additional 7-day interval.

Epilepsy

Pregabalin treatment can be started with a dose of 150 mg per day given as two or three divided doses. Based on individual patient response and tolerability, the dose may be increased to 300 mg per day after 1 week. The maximum dose of 600 mg per day may be achieved after an additional week.

Generalised Anxiety Disorder

The dose range is 150 to 600 mg per day given as two or three divided doses. The need for treatment should be reassessed regularly.

Pregabalin treatment can be started with a dose of 150 mg per day. Based on individual patient response and tolerability, the dose may be increased to 300 mg per day after 1 week. Following an additional week the dose may be increased to 450 mg per day. The maximum dose of 600 mg per day may be achieved after an additional week.

Method of administration: Oral

4.3 Contraindication:

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

4.4 Special warnings and precautions for use

Diabetic patients

In accordance with current clinical practice, some diabetic patients who gain weight on pregabalin treatment may need to adjust hypoglycaemic medicinal products.

Hypersensitivity reactions

There have been reports in the post marketing experience of hypersensitivity reactions, including cases of angioedema. Pregabalin should be discontinued immediately if symptoms of angioedema, such as facial, perioral, or upper airway swelling occur. Dizziness, somnolence, loss of consciousness, confusion and mental impairment Pregabalin treatment has been associated with dizziness and somnolence, which could increase the occurrence of accidental injury (fall) in the elderly population. There have also been post-marketing reports of loss of consciousness, confusion and mental impairment. Therefore, patients should be advised to exercise caution until they are familiar with the potential effects of the medicinal product.

Renal failure

Cases of renal failure have been reported and in some cases discontinuation of pregabalin did show reversibility of this adverse reaction.

Withdrawal of concomitant antiepileptic medicinal products

There are insufficient data for the withdrawal of concomitant antiepileptic medicinal products, once seizure control with pregabalin in the add-on situation has been reached, in order to reach monotherapy on pregabalin.

Congestive heart failure

There have been post-marketing reports of congestive heart failure in some patients receiving pregabalin. These reactions are mostly seen in elderly cardiovascular compromised patients during pregabalin treatment for a neuropathic indication.

Pregabalin should be used with caution in these patients. Discontinuation of pregabalin may resolve the reaction.

Treatment of central neuropathic pain due to spinal cord injury.

4.5 Interaction with other drug products and other forms of interaction

Since pregabalin is predominantly excreted unchanged in the urine, undergoes negligible metabolism in humans (<2% of a dose recovered in urine as metabolites), does not inhibit drug metabolism in vitro, and is not bound to plasma proteins, it is unlikely to produce, or be subject to, pharmacokinetic interactions.

Oral contraceptives, norethisterone and/or ethinyl oestradiol:

Co-administration of pregabalin with the oral contraceptives norethisterone and/or ethinyl oestradiol does not influence the steady-state pharmacokinetics of either substance.

Interactions and the elderly:

No specific pharmacodynamic interaction studies were conducted in elderly volunteers. Interaction studies have only been performed in adults.

4.6 Fertility, pregnancy and lactation

As the potential risk for humans is unknown, effective contraception must be used in women of child bearing potential.

Pregnancy

There are no adequate data from the use of pregabalin in pregnant women.

Studies in animals have shown reproductive toxicity. The potential risk for humans is unknown.

Pregabalin Capsules 300Mg should not be used during pregnancy unless clearly necessary

Breast-feeding

Pregabalin is excreted into human milk. The effect of pregabalin on newborns/infants is unknown. A decision must be made whether to discontinue breast-feeding or to discontinue pregabalin therapy taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman.

4.7 Effects on ability to drive and use machines

Pregabalin Capsules 300Mg may have minor or moderate influence on the ability to drive and use machines. Pregabalin Capsules 300Mg may cause dizziness and somnolence and therefore may influence the ability to Patients are advised not to drive, operate complex machinery or engage in other potentially hazardous activities until it is known whether this medicinal product affects their ability to perform these activities.

4.8 Undesirable effects

The adverse reactions listed may also be associated with the underlying disease and/or concomitant medicinal products.

Pregabalin adverse drug	Adverse drug reactions				
reactions System Organ Class					
Infections and infestations					
Common	Nasopharyngitis				
Blood and lymphatic system					
Uncommon	Neutropaenia				
Immune system disorders	1 vento puestia				
Uncommon	Hypersensitivity				
Rare	Angioedema, allergic reaction				
Metabolism and nutrition disorders					
Common	Appetite increased				
Uncommon	Anorexia, hypoglycaemia				
Psychiatric disorders	7 7 0				
Common	Euphoric mood, confusion, irritability, libido decreased, disorientation, insomnia				
Uncommon	Hallucination, panic attack, restlessness, agitation, depression, depressed mood, elevated mood, aggression, mood swings, depersonalisation, word finding difficulty, abnormal dreams, libido increased, anorgasmia, apathy				
Rare	Disinhibition,				
Nervous system disorders	,				
Very Common	Dizziness, somnolence, headache				
Common	Ataxia, coordination abnormal, tremor, dysarthria, amnesia, memory impairment, disturbance in attention, paraesthesia, hypoaesthesia, sedation, balance disorder, lethargy				
Uncommon	Syncope, stupor, myoclonus, <i>loss of consciousness</i> , psychomotor hyperactivity, dyskinesia, dizziness postural, intention tremor, nystagmus, cognitive disorder, <i>mental impairment</i> , speech disorder, hyporeflexia, hyperaesthesia, burning sensation, ageusia, <i>malaise</i>				
Rare	Convulsions, hypokinesia, parosmia, dysgraphia				
Eye disorders					
Common	Vision blurred, diplopia				
Uncommon	Peripheral vision loss, Visual disturbance, eye swelling, visual field defect, visual acuity reduced, eye pain, asthenopia, photopsia, dry eye, lacrimation increased, eye irritation,				
Rare	Vision loss, keratitis, oscillopsia, altered visual depth perception, mydriasis, strabismus, visual brightness				
Ear and labyrinth disorders					
Common	Vertigo				

Cardiac disorders				
Uncommon	Tachycardia, atrioventricular block first degree, sinus bradycardia, <i>Congestive heart failure</i>			
Rare	QT prolongation, sinus tachycardia, sinus arrhythmia			
Vascular disorders				
Uncommon	Flushing, hot flushes, hypotension, hypertension, peripheral coldness			
Respiratory, thoracic and mediastinal disorders				
Uncommon	Dyspnoea, epistaxis, cough, nasal congestion, rhinitis, snoring, nasal dryness			
Rare	Pulmonary oedema, throat tightness			
Not known	Respiratory depression			
Gastrointestinal disorders				
Common	Vomiting, nausea, dry mouth, constipation, diarrhoea, flatulence, abdominal distension			
Uncommon	Gastrooesophageal reflux disease, salivary hypersecretion, hypoaesthesia oral			
Rare	Ascites, pancreatitis, dysphagia, Swollen tongue			

4.9 Overdose

In the post-marketing experience, the most commonly reported adverse reactions observed when pregabalin was taken in overdose included somnolence, confusional state, agitation, and restlessness. Seizures were also reported.

In rare occasions, cases of coma have been reported.

Treatment of pregabalin overdose should include general supportive measures and may include haemodialysis if necessary.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Other analgesics and antipyretics, ATC code: N02BF02

Mechanism of action:

Pregabalin binds to an auxiliary subunit (α 2- δ protein) of voltage-gated calcium channels in the central nervous system.

5.2 Pharmacokinetic properties

Pregabalin steady-state pharmacokinetics are similar in healthy volunteers, patients with epilepsy receiving anti-epileptic drugs and patients with chronic pain.

Absorption: Pregabalin is rapidly absorbed when administered in the fasted state, with peak plasma concentrations occurring within 1 hour following both single and multiple dose administration. Pregabalin oral bioavailability is estimated to be ≥ 90 % and is independent of dose. Following repeated administration, steady state is achieved within 24 to 48 hours. The rate of pregabalin absorption is decreased when given with food resulting in a decrease in Cmax by approximately 25-30 % and a delay in tmax to approximately 2.5 hours. However, administration of pregabalin with food has no clinically significant effect on the extent of pregabalin absorption.

Distribution: In preclinical studies, pregabalin has been shown to cross the blood brain barrier in mice, rats, and monkeys. Pregabalin has been shown to cross the placenta in rats and is present in the milk of lactating rats. In humans, the apparent volume of

distribution of pregabalin following oral administration is approximately 0.56 l/kg. Pregabalin is not bound to plasma proteins.

Biotransformation

Pregabalin undergoes negligible metabolism in humans. Following a dose of radiolabelled pregabalin, approximately 98 % of the radioactivity recovered in the urine was unchanged pregabalin. The N-methylated derivative of pregabalin, the major metabolite of pregabalin found in urine, accounted for 0.9 % of the dose. In preclinical studies, there was no indication of racemisation of pregabalin S-enantiomer to the R-enantiomer.

Elimination

Pregabalin is eliminated from the systemic circulation primarily by renal excretion as unchanged drug. Pregabalin mean elimination half-life is 6.3 hours. Pregabalin plasma clearance and renal clearance are directly proportional to creatinine clearance (see section 5.2 Renal impairment). Dose adjustment in patients with reduced renal function or undergoing haemodialysis is necessary

5.3 Preclinical safety data

In conventional safety pharmacology studies in animals, pregabalin was well-tolerated at clinically relevant doses. In repeated dose toxicity studies in rats and monkeys CNS effects were observed, including hypoactivity, hyperactivity and ataxia. An increased incidence of retinal atrophy commonly observed in aged albino rats was seen after long term exposure to pregabalin at exposures ≥ 5 times the mean human exposure at the maximum recommended clinical dose.

Pregabalin was not teratogenic in mice, rats or rabbits. Foetal toxicity in rats and rabbits occurred only at exposures sufficiently above human exposure. In prenatal/postnatal toxicity studies, pregabalin induced offspring developmental toxicity in rats at exposures > 2 times the maximum recommended human exposure.

Adverse effects on fertility in male and female rats were only observed at exposures sufficiently in excess of therapeutic exposure. Adverse effects on male reproductive organs and sperm parameters were reversible and occurred only at exposures sufficiently in excess of therapeutic exposure or were associated with spontaneous degenerative processes in male reproductive organs in the rat. Therefore the effects were considered of little or no clinical relevance.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients:

Sr. No	Excipients
1	Lactose BP
2	Starch (SP-maize starch powder) BP
3	Sodium Lauryl Sulphate BP
4	Calcium Silicate USP
5	Magnesium stearate BP
6	Hard Gelatin Capsules Size: "O"

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

3 Years

6.4 Special precautions for storage

Store below 30°C in dry & dark place.

6.5 Nature and contents of container

An ALU-PVC blister containing 10 capsules such 10 blisters are packed in carton along with pack insert.

6.6 Special precautions for disposal of a used medicinal product or waste materials derived from such medicinal product and other handling of the product

No special requirements for disposal.

7. APPLICANT/HOLDER OF CERTIFICATE OF PRODUCT REGISTRATION

Aquatix Pharmaceuticals Ltd.

No.7, Sapara Williams Street, Industrial Estate, Ikeja, Lagos

8. DRUG PRODUCT MANUFACTURER

KCH Consumer Healthcare 7/9 Sawyer Cres, Gbagada, Lagos 100232, Lagos

9. NAFDAC REGISTRATION NUMBER(S): New Registration