

## Pregabalin

### FORMS AND PRESENTATION

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Gabrika®75: Capsules: Box of 30.
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Gabrika®100: Capsules: Box of 30.
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COMPOSITION
Gabrika®25: Each capsule contains Pregabalin 25mg.
Excipients: lactose, starch, talc, magnesium stearate, titanium dioxide, gelatin, erythrosin, indigotine, black iron oxide.
Gabrika® 75: Each capsule contains Pregabalin 75mg.
Excipients: lactose, starch, talc, magnesium stearate, gelatin, titanium dioxide, erythrosin, indigotine, black iron oxide.

indigotine.

Gabrika\* 100: Each capsule contains Pregabalin 100mg.

Excipients: lactose, starch, talc, magnesium stearate, gelatin, titanium dioxide, erythrosin, sunset yellow, brilliant blue.

Gabrika\* 150: Each capsule contains Pregabalin 150mg.

Excipients: lactose, starch, talc, gelatin, titanium dioxide, brilliant blue, erythrosin.

PHARMACOLOGICAL PROPERTIES

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Pharmacodynamic Properties

Therapeutic class: Antiepileptics.

ATC code: N03AX16.

The active substance, Pregabalin, is a gamma-aminobutyric acid analogue ((S)-3-(aminomethyl)-5-methylhexanoic acid).

Pregabalin binds to an auxiliary subunit (a,-ō protein) of voltage-gated calcium channels in the central nervous system, potently displacing [³H]-gabapentin.

Pharmacokinetic Properties

Pregabalin steady-state pharmacokinetics are similar in healthy volunteers, patients with

the central nervous system, potential the central nervous system, potential the properties of Propadalin 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 hr 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 hrs. The rate of Pregabalin absorption is decreased when given with food resulting in a decrease in C\_by approximately 2.5 hrs. 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.

bound to plasma proteins.

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Metabolism: 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 racemization 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 hrs. Pregabalin plasma clearance and renal clearance are directly proportional to Cl..

Dosage adjustment in patients with reduced renal function or undergoing haemodialysis is necessary.

necessary.

<u>Pharmacokinetics in special patient groups:</u>

Renal impairment: Pregabalin clearance is directly proportional to Cl. In addition, Pregabalin is effectively removed from plasma by haemodialysis (following a 4 hr haemodialysis treatment plasma Pregabalin concentrations are reduced by approximately 50%). Because renal elimination is the major elimination pathway, dosage reduction in patients with renal impairment and dosage supplementation following haemodialysis is necessary.

necessary. Hepatic impairment: No specific pharmacokinetic studies were carried out in patients with impaired liver function. Since Pregabalin does not undergo significant metabolism and is excreted predominantly as unchanged drug in the urine, impaired liver function would not be expected to significantly alter Pregabalin plasma concentrations. Elderly (> 65 years): Pregabalin clearance tends to decrease with increasing age. This decrease in Pregabalin oral clearance is consistent with decreases in Cl\_associated with increasing age. Reduction of Pregabalin dose may be required in patients who have age

related compromised renal function.
INDICATIONS

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INDICATIONS

Neuropathic pain: Gabrika® is indicated for the treatment of peripheral and central neuropathic pain: adults.

Epilepsy: Gabrika® is indicated as adjunctive therapy in adults with partial seizures with or without secondary generalisation.

Generalised Anxiety Disorder: Gabrika® is indicated for the treatment of Generalised Anxiety Disorder: GAD) in adults.

CONTRAINDICATIONS

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

PRECAUTIONS

Hypersensitivity to the active substance or to any of the excipients who gain weight on Pregabalin treatment may need to adjust hypoglycaemic medications.

Pregabalin treatment may seen associated with dizziness and sommolence, 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

Cases of renal failure have been reported and discontinuation of Pregabalin withdrawal symptoms have been observed in some patients. The following events have been mentioned: insomnia, headache, nausea, diarrhoea, flu syndrome, nervousness, depression, pain, sweating and dizziness. The patient should be informed about this at the start of the treatment.

There have been post-marketing reports of congestive heart failure in some patients receiving Pregabalin.

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

Sucidal ideation and behaviour have been reported in patients treated with anti-epileptic agents in several indications. A meta-analysis of randomised placebo controlled trials of anti-epileptic drugs has also shown a small increased risk of suicidal ideation and behaviour. The mechanism of this risk is not known and the available data do not exclude the possibility of an increased risk for Pregabalin.

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

PREGNANCY AND LACTATION

There are no adequate data on the use of Pregabalin in pregnant women. Studies in animals have shown reproductive toxicity. The potential risk to humans is unknown. Pregabalin should not be used during pregnancy unless clearly necessary (if the benefit to the mother clearly outweighs the potential risk to the focus). Effective contraception must be used in women of child bearing potential. It is not known if Pregabalin is excreted in the breast milk of humans; however, it is present in the milk of rats. Therefore, breast-feeding is not recommended during treatment with Pregabalin.

DRUG INTERACTIONS

Since Pregabalin is predominantly excreted unchanged in the urine, undergoes negligible metabolism in humans (e.2%) of a dose recovered in urine as metabolities) does not inhibit

DRUG INTERACTIONS
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

drug Inetaonismi in Virto; and is no bound to plasma proteins, it is unincey to produce, or be subject to, pharmacokinetic interactions. Accordingly, in in vivo studies no clinically relevant pharmacokinetic interactions were observed between Pregabalin and phenytoin, carbamazepine, valproic acid, lamotrigine, gabapentin, lorazepam, oxycodone or ethanol. Population pharmacokinetic analysis indicated that oral antidabetics, diuretics, insulin, phenobarbital, tiagabine and topiramate had no clinically significant effect on Pregabalin clearance.

Co-administration of Pregabalin with the oral contraceptives norethisterone and/or ethinyl oestradiol does not influence the steady-state pharmacokinetics of either substance. Pregabalin may potentiate the effects of ethanol and lorazepam. In controlled clinical trials, multiple oral does of Pregabalin co-administered with oxycodone, lorazepam, or ethanol did not result in clinically important effects on respiration. In the postmarketing experience, there are reports of respiratory failure and coma in patients taking Pregabalin and other CNS depressant medications. Pregabalin appears to be additive in the impairment of cognitive and gross motor function caused by oxycodone.

ADVERSE EFFECTS

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The Pregabalin clinical programme involved over 9000 patients who were exposed to Pregabalin, of whom over 5000 were in double-blind placebo controlled trials. The most commonly reported adverse reactions were dizziness and sommolence. Adverse reactions were usually mild to moderate in intensity. In all controlled studies, the discontinuation rate due to adverse reactions was 13% for patients receiving Pregabalin and 7% for patients receiving placebo. The most common adverse reactions resulting in discontinuation from Pregabalin treatment groups were dizziness and sommolence.

Below are mentioned all adverse reactions, which occurred at an incidence greater than placebo and in more than one patient, are listed by class and frequency: Very common (> 1/100, < 1/10), uncommon (> 1/100, < 1/10), uncommon (> 1/100, < 1/10) and are (< 1/1000). Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

seriousness.

Immune system disorders: Unknown frequency: Hypersensitivity, angioedema, allergic

reaction

\*\*Blood and lymphatic system disorders: Rare: Neutropenia

\*\*Metabolism and Nutrition disorders: Common: Apetite increased; Uncommon: Anorexia; Rare: Hypoglycaemia

\*\*Psychiatric disorders: Common: Euphoric mood, confusion, irritability, libido decreased; Uncommon: Hallucination, panie attack, restlessness, agitation, depression, depressed mood, mood swings, depersonalisation, insomnia exacerbated, word finding difficulty, abnormal dreams, libido increased, anorgasmia, apathy; Rare: Disinhibition, elevated mood.

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Nervous system disorders: Very common: Dizziness, somnolence; Common: Ataxia, coordination abnormal, tremor, dysarthria, memory impairement, disturbance in attention, paraesthesia; Uncommon: Syncope, stupor, myoclonus, psychomotor hyperactivity, ageusia, dyskinesia, dizziness postural, intention tremor, nystagmus, cognitive disorder, speech disorder, hyporeflexia, hypoaesthesia, amnesia, hyperaesthesia, burning sensation; Rare: Hypokinesia, parosmia, dysraphia; Unknown frequency: Loss of consciousness, mental impairement, headache

Eye disorders: Common: Vision blurred, diplopia; Uncommon: Visual disturbance, eye swelling, visual field defect, visual acuity reduced, eye pain, asthenopia, dry eye, lacrimation increased; Rare: Peripheral vision loss, oscillopsia, altered visual depth perception, photopsia, eye irritation, mydriasis, strabismus, visual brightness; Unknown frequency; Vision loss, keratitis

Lar and labyrinth disorders: Common: Vertigo; Rare: Hyperacusis

Cardiac disorders: Uncommon: Tachycardia; Rare: Atrioventricular block first degree, sinus tachycardia, sinus arrhythmia; Unknown frequency: Congestive heart failure

Vascular disorders: Unknown: Flushing, hot flushes; Rare: Hypotension, hypertension,

Vascular disorders: Unknown: Flushing, hot flushes; Rare: Hypotension, hypertension, peripheral coldness
 Respiratory, thoracic and mediastinal disorders: Uncommon: Dyspnoea, nasal dryness; Rare: Epistaxis, throat tightness, nasopharyngitis, cough, nasal congestion, rhinitis, snoring
 Gastrointestinal disorders: Common: Vomiting, dry mouth, constipation, flatulence; Uncommon: abdominal distension, gastrooesophageal reflux disease, salivary hypersecretion, oral hypoaesthesia; Rare: ascites, pancreatitis, dysphagia; Unknown frequency: swallen tounge, diarrhoea, nausea
 Skin and subcutaneous tissue disorders: Uncommon: Rash papular sweating; Rare: urticaria, cold sweat; Unknown frequency: Steven Johnson syndrom, pruritus
 Musculoskeletal and connective tissue disorders: Uncommon: muscle twitching, joint swelling, muscle cramp, myalgia, arthralgia, back pain, pain in limb, muscle stiffness; Rare: rhabdomyolysis, cervical spasm, neck pain
 Renal and Urinary disorders: Uncommon: urinary incontinence, dysuria; Rare: renal failure, oliguria; Unknown frequency: urinary retention
 Reproductive system and breast disorders: Common: Erectile dysfunction; Uncommon: ejaculation delayed, sexual dysfunction; Rare: Amenorrhoea, breast disorders and administration site conditions: Common: Gait abnormal, feeling drunk, fatigue, oedema periheral, oedema; Uncommon: fall, chest tightness, asthenia, thirst; Rare: Anasarca, pyrexia, rigors, pain exacerbated; Unknown frequency: Face oedema

## Face oedema DOSAGE AND ADMINISTRATION

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Cl <sub>cr</sub> (ml/min)	Total Gabrika® Daily dose *		Dose Regimen
	Starting dose (mg/day)	Maximum dose (mg/day)	
≥ 60	150	600	BID or TID
≥ 30 - < 60	75	300	BID or TID
≥ 15 - < 30	25 - 50	150	Once daily or BID
< 15	25	75	Once daily
Supplementary dosage following haemodialysis (mg)			
	25	100	Single dose ±

| 100 | Single dose + | TID = Three divided doses |
| IID = Two divided doses |
| IID = Two divided doses |
| IID = Two divided doses |
| Total daily dose (mg/day) should be divided as indicated by dose regimen to provide mg/dose + Supplementary dose is a single additional dose |
| OVERIOSAGE |
| In overdose up to 15 g, no unexpected adverse reactions were reported. In the post-marketing experience, the most commonly reported adverse events observed when Pregabalin was taken in overdose included somnolence, confusional state, agitation, and restlessness. Treatment of Pregabalin overdose should include general supportive measures and may include haemodialysis if processory.

# if necessary. STORAGE CONDITIONS

Keep in original pack in intact conditions

Date of revision: February 2018.

### This is a medicament

This is a medicament
A medicament is a product which affects your health, and its consumption
contrary to instructions is dangerous for you
Fellow strictly the doctor's prescription, the method of use, and the
instructions of the pharmacist with 6 sold the medicament
The doctor and the pharmacist with 6 sold the medicament
The doctor and the pharmacist with 6 sold the medicament
Do not by yourself interrupt the period of treatment prescribed for you
Do not repeat the same prescription without consulting your doctor
Medicament: keep out of reach of children

Union of Arab Pharms