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Pis No. : ART/21/11/8920-01

For the use of a Registered Medical Practitioner or a Hospital or a Laboratory only. **LEVETIRACETAM**

Keppra Tablets, Oral Solution & Concentrate for solution for infusion

QUALITATIVE AND QUANTITATIVE COMPOSITION

 $\emph{Film-coated tablets:} \\ Each film-coated tablet contains: Levetiracetam I.P. 250 mg, 500 mg, 750 mg or 1000 mg. \\$

Concentrate for solution for infusion: Each 5ml concentrate solution contains: Levetiracetam I.P. 500 mg.

PHARMACEUTICALFORM

Film-coated tablet
Levelificated an 250 mg film-coated tablets are blue, oblong and debossed with the code ucb and 250 on one side.
Levelificated an 50 mg film-coated tablets are yellow, oblong and debossed with the code ucb and 350 on one side.
Levelificated an 50 mg film-coated tablets are orange, oblong and debossed with the code ucb and 350 on one side.
Levelificated an 50 mg film-coated tablets are write, oblong and debossed with the code ucb and 350 on one side.
Levelificated an 50 mg film-coated tablets are white, oblong and debossed with the code ucb and 1000 on one side
Orall State of the side of the s

py: ont of partial onset seizures with or without secondary generalization in patients from 16 years of age with newly diagno

As an adjunctive therapy:

- In mycolonic seizures in adults and adolescents from 12 years of age with Juvenile mycolonic epilepsy.

- In primary generalised tonic-clonic seizures in adults and adolescents from 12 years of age with idiopathic generalised epilepsy.

- In the treatment of partial onset of seizures in adults with epilepsy.

Posology and method of administration

ts
sset seizures
ided dosing for monotherapy and adjunctive therapy is the same; as outlined below.

All indications

-Adults C=18 years) and adolescents (12 to 17 years) weighing 50 kg or more. The initial therapeutic dose is 500 mg twice daily for both oral immediate release [tablets and oral solution] and IV formulations, and 1000 mg once daily for the extended-release tablets). This case can be started on the first sol or the first solver initial dose of 250 mg twice daily when ye given based to physician assessment of seizure reduction versus. two weeks.
and indig upon the clinical response and tolerance, the daily dose can be increased up to 1500 mg twice /daily. Dose changes can be made in 250 mg or 500 mg twice daily increments or aments every two to four weeks.

Levetiracetam therapy can be initiated with either intravenous or oral administration. Levetiracetam concentrate for solution for infusion is an alternative for patients when oral administration the bitter taste of Levetiracetam may be experienced.

Should a smaller volume be clinically required (e.g. paediatric population), the amount of diluent and also take into consideration the total daily fluid intake of the patient.

72 x serum creatinine (mg/dl) Then CLcr is adjusted for body surface area (BSA) as follows: CLcr (ml/min)

CLcr (ml/min/1.73 m2) = ----- x 1.73 BSA subject (m2) For young adolescents, children and infants, using the following formula (Schwartz formula)

 $CLar = \frac{\text{Height}(am) \times ks}{\text{Furm creatinine}(mg/ad)} \\ ks = 0.45 \text{ in Term infants to 1 year old; } ks = 0.55 \text{ in Children to elses than 13 years and in adolescent female; } ks = 0.7 \text{ in adolescent male.} \\ Dosing adjustment for adults and adolescents weighing 50 kg or more with impaired renal function}$ Creatinine clearance (ml/min/1.73m2) Dosage and frequency

 $(1)A750\,mg\,loading\,dose\,is\,recommended\,on\,the\,first\,day\,of\,treatment\,with\,levetiracetam.\\(2)\,Following\,dialysis,\,a\,250\,to\,500\,mg\,supplemental\,dose\,is\,recommended.$

Dosage (dose for oral solution) and frequency Infants 6 to 23 months, children and adol weighing less than 50 kg 7 to 21 mg/kg (0.07 to 0.21 ml/kg) twice daily 10 to 30 mg/kg (0.10 to 0.30 ml/kg) twice daily Normal Mild 50-79 3.5 to 10.5 mg/kg (0.035 to 0.105 ml/kg) twice daily 10 to 20 mg/kg (0.10 to 0.20 ml/kg) twice daily Severe 3.5 to 7 mg/kg (0.035 to 0.07 ml/kg) twice daily 5 to 10 mg/kg (0.05 to 0.10 ml/kg) twice daily

(1)A 1.5 mg/kg (0.105 ml/kg) loading dose is recommended on the first day of treatment with Levetiraceta (2)A 15 mg/kg (0.15 ml/kg) loading dose is recommended on the first day of treatment with Levetiracetam. (3) Following dalays: a.3.5 to 7 mg/kg (0.035 to 0.7 ml/kg) supplemental dose is recommended. (4) Following dialysis, a.5 to 10 mg/kg (0.05 to 0.10 ml/kg) supplemental dose is recommended.

Patients with hepatic impairment.

No dose adjustment is needed in patients with mild to moderate hepatic impairment. In patients with severe hepatic impairment, the creatinine clearance may underestimate the renal insufficiency. Therefore a 50% reduction of the daily maintenance dose is recommended when the creatinine clearance is < 60 milmin 1.73m2.

erapeutic dose is 7 mg/kg twice daily. Depending upon the clinical response and tolerability, the dose can be increased up to 21 mg/kg twice daily. Dose changes should not lases or decreases of 7 mg/kg twice daily every two weeks. The lowest effective dose should be used. Infants should start the treatment with Levetiracetam 100 mg/ml oral

Starting dose (dose for oral solution): 7 mg/kg twice daily Maximum dose (dose for oral solution): 21 mg/kg twice daily 147 mg (1.5 ml) twice daily 49 mg (0.5 ml)twice daily

 $\underline{Infants\,aged\,6\,to\,23\,months, children\,aged\,2\,to\,11\,years\,and\,adolescents\,(12\,to\,17\,years)\,weighing\,less\,than\,50\,kg}$ The initial therapeutic dose is 10 mg/kg twice daily.

Depending upon the clinical response and tolerability, the dose can be increased up to 30 mg/kg twice daily. Dose changes should not exceed increments or decrements of 10 mg/kg twice daily every two weeks. The lowest effective dose should be used. Dosage in children 50 kg or greater is the same as in adults. Dosage recommendations for children and adolescents:

Weight 100 mg twice daily
 20 kg(1)
 200 mg twice daily

 25 kg
 250 mg twice daily

 From 50 kg(2)
 500 mg twice daily
 600 mg twice daily 750 mg twice daily 1500 mg twice daily (1) Children 20 kg or less should preferably start the treatment with Keppra 100 mg/ml oral solution (2) Dosage in children and adolescents 50 kg or more is the same as in adults

CONTRA-INDICATIONS
Hypersensitivity to levetiracetam or other pyrrolidone derivatives or any of the ex

SPECIAL WARNINGS AND SPECIAL PRECAUTIONS FOR USE

Discontinuation in accordance with current clinical practice, if Keppra has to be discontinued it is recommended to withdraw it gradually (e.g. in adults and adolescent weighing 50 kg or more: 500 mg twice daily decrements every two to four weeks; in infants locker than 6 months, children and adolescents weighing less than 50 kg; dose decrease should not exceed decrements of 10 mg/kg twice daily every frow weeks; in infants locker shane from this; dose decrease should not exceed may be adolescent weighing less than 50 kg; dose decrease should not exceed may be adolescent weighing less than 50 kg; dose decrease should not exceed may be adolescent weighing less than 50 kg; dose decrease should not exceed may be adolescent weighing less than 50 kg; dose decrease should not exceed may be adolescent weighing less than 50 kg; dose decrease should not exceed the should not e Boy or a local courts (Bood cell counts) (Reytropenia, agranulocytosis, leucopenia, thombocytopenia and pancytopenia) have been described in association with Levetracetam administration. Complete blood cell counts are advised in patients experiencing important weakness, pyrexia, recurrent infections or coautation disorders (see undesirable effects).

Renal insufficiency
The administration of Keppra to patients with renal impairment may require dose adjustment. In patients with severely impaired hepatic function, assessment of renal function is recommended before dose selection (see Posology and method of administration section).

Fedotin-meteorenesessessessessessessessesses (more reported in patients treated with leveliracetam. Patients (and caregivers of patients) should be advised to immediately report any symptoms of depression and/or suicidal ideation to their prescribing physician. hilatric reactions and changes in behavior trincotant may cause changes in behavior (e.g. aggression, agitation, anger, anxiety, apathy, depression, hostility, and irritability) and psycholic symptoms. Patients treated with irracetam should be monitored for psychiatric signs and symptoms.

levetiracetam should be monitoried for psychiatric supplies and a projection.

Aparadoxical reaction of worsening of seizure may be observed especially when starting treatment or at increase in dose.
Lack of efficacy or seizure worsening has been reported in patients with epilepsy associated with SCN8A mutations.

Electrocardiogram OT interval prolongation

Rare cases of ECG OT interval prolongation have been observed during the post-marketing surveillance. Levetiracetam should be used with caution in patients with QTc-interval prolongation, in patients concomitantly treated with drugs affecting the QTc-interval, or in patients with relevant pre-existing cardiac disease or electrolyte disturbances.

prolongation, in patients concomitantly treated with drugs alrecting the QTC-interval, or in patients with relevant prolongation.

Rare cases of ECG QT interval prolongation have been observed during the post-marketing surveillance. Leveltracetam should be used with caution in patients with QTC-interval prolongation, in patients concomitantly treated with drugs affecting the QTC-interval, or in patients with relevant pre-existing cardiac disease or electrolyte disturbances.

prolongation, in patients concomitantly treated with drugs allowing the Concentrate for solution for influsion
This medicinal product contains 0.8 mmol (or 19 mg) of sodium per vial. To be taken into consideration by patients on a controlled sodium diet. INTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORMS OF INTERACTION

Antieplipplic drugs

Data indicate that levetiracetam did not influence the serum concentrations of existing antieplieptic drugs (phenytoin, carbamazepine, valproic acid, phenobarbital, lamotrigine, gabapentin and primidone) and that these antieplieptic drugs did not influence the pharmacokinetics of levetiracetam. The clearance of leveltracetam was 22% higher in children taking enzyme-inducing AEDs compared to children who did not taken enzyme-inducing AEDs. Dose adjustment is not recommended. Leveltracetam had no effect on plasma concentrations of carbamazepine, valproate, topiramate, or lamotrigine.

Probenedic (900 mg four times daily), a renal tubular secretion blocking agent, has been shown to inhibit the renal clearance of the primary metabolite but not of levetiracetam. Nevertheless, the concentration of this metabolite remains low. It is expected that other drugs excreted by active tubular secretion could also reduce the renal clearance of the metabolite. The effect of levetiracetam on probened was not studied and the effect of levetiracetam on other actively secreted drugs, e.g., NSAIDs, subphornamides, and methotroxate is unknown.

ation of ins relationise relations tow. It is expected that other rough excrete dry active thoular secretion cloud asks rectioned in the relation cloud asks relations on the relation of the relationship of

n the influence of antacids on the absorption of levetiracetam are available.

Food and alcohol
The extent of abo rption of levetiracetam was not altered by food, but the rate of absorption was slightly reduced. raction of levetiracetam with alcohol are available.

chilobeaning potential advice should be given to women who are of childbearing potential. Treatment with levetiracetam should be reviewed when a woman is planning to become pregnant. As with all ic medicines, sudden discontinuation of levetiracetam should be avoided as this may lead to breakthrough seizures that could have serious consequences for the woman and the

Monotherapy should be preferred whenever possible because therapy with multiple antiepileptic medicines could be associated with a higher risk of congenital malformations than monotherapy, depending on the associated antiepileptics. rige amount of postmarketing data on pregnant women exposed to levetiracetam monotherapy (more than 1800, among which in more than 1500 exposure occurred during the 1st ester do not indicate increased risk of major malformations

trimestary 10 not indicate increased rask or migar materimation's.

Trimed evidence is available or in the neurodevoluginary of them evidence in the neurodevoluginary of the neurodevolug Physiological changes during pregnancy may affect leveltiracetam concentration. A decrease in leveltiracetam plasma concentrations has been observed during pregnancy. This decrease is more pronounced during the third trimester (up to 60% of baseline concentration before pregnancy). Appropriate clinical management of pregnant women treated with leveltracetam should

ter instruct.
Ladridion
Leveltracter is excreted in human breast milk. Therefore, breast-feeding is not recommended. However, if Leveltracetam treatment is needed during breastfeeding, the benefit/risk of the treatment should be weighed considering the importance of breastfeeding.

Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed.

Due to possible different individual sensitivity, some patients might experience somnolence or other central nervous system related symptoms, at the beginning of treatm dose increase. Therefore, caution is recommended in those patients when performing skilled tasks, e.g. driving vehicles or operating machinery.

Clinical struits.

UNDESIRABLE EFFEUS
Clinical studies
Cyterioiav
Levelinacean has been administered to more than 3,000 subjects and patients. One thousand and twenty three (1,023) patients with epilepsy participated in controlled clinical studies. Poolde safely data from these studies conducted in adult patients showed that 46.4% and 42.2% of the patients experienced adverse reactions in the levelinacean and placebo groups, respectively, and that 2.4% and 2.0% of the patients experienced seriors, respectively. The patients experienced adverse reactions were somnoince, asthenia and dizziness. In the pooled safety analysis, there was no evidence of dose-response relationship but incidence and severity of the certifial revolves system related adverse reactions were seamnoinced.

The most commonly reported adverse reactions were somnoince.

The most commonly reported adverse reactions were somnoince.

The most commonly reported adverse reactions were fatigue and somnoince.

y of the central nervous system related adverse reactions decreased over time.

The most request is usually supported a function of the most requestly reported adverse reactions were fatigue and somnolence, inducted in paediatric patients (4 to 16 years) showed that 55.4% of the patients in the levetiracetam group and 40.2% of the patients in the placebo group experienced adverse

reactions.

Teaching the second of the properties of the properties of the patients in the placebox group. The most commonly reported adverse reactions were semonicone, hostility, nervousness, emotional ability, agaitant, a norwai, asthenia and headach in the paedatric population. Safety results in paedatric papitalism, paedatric papitalism, were semonicone, hostility, nervousness, emotional ability, agaitant, anorwai, asthenia and headach in the paedatric population. Safety results in paedatric papitalism is paedatric papitalism to were consistent with the safety profile of levelifacetam in adults except for behavioural and psychiatric adverse reactions which were more common in children than in adults (38.6% versus 18.6%). However, the relative risk was similar in children as compared to adults.

120 MM

Insert to be folded by printer

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BACK

Astudy conducted in paediatric patients (1 month to less than 4 years) with focal/partial onset seizures showed that 21.7 % of the patients in the levetiracetam group and 7.1% of the patients in the placebo group experienced adverse reactions. No serious adverse reactions were experienced in patients in the levetiracetam or placebo group. During the long-term follow-up study NO1148, the most frequent adverse reactions in the 1m — 4dy group were irritability (7.9%), convolsion (7.2%), sommolence (6.6%), psychomotor hyperactivity (3.3%), sleep disorder (3.3%). Safety results in paediatric patients were consistent with the safety profile of levetiracetam in older children aged 4 to 16 years. Adouble-billing dazebo-controlled rearrialists state vistual with an on-indirectivity state to the second the second

behaviour were not worse train baseline.

A study conducted in adults and obliosecents with myoclonic seizures (12 to 65 years) showed that 33.3% of the patients in the leveltracetam group and 30.0% of the patients in the placebo group experienced adverse reactions. The most commonly reported adverse causes were headache and somnolence. The incidence of adverse reactions in patients with myoclonic seizures was over than that in adult patients with flocal/partial orset seizures (33.3% excurses was 60.4%). A study conducted in adults and children (4 to 65 years) with foliopathic generatised pelleps with conductant generatised control in the levelation of the patients in the placebo group experienced adverse reactions. The most commonly reported adverse reaction was fatigue.

System Organ Class	Very common	Common	Uncommon	Rare
Infections and infestation	nasopharyngitis			Infection
Blood and lymphatic system disorders			Thrombocytopenia	
Metabolism and nutrition disorders		Anorexia	Weight increased	
Psychiatric disorders		Depression, hostility, aggression, insomnia, nervousness, irritability	Affect lability/mood swings, agitation	Personality disorders thinking abnormal
Nervous system disorders	Somnolence, headache	Convulsion, balance disorder, dizziness,tremor	Amnesia memory impairment, coordination abnormal/cerebellar ataxia, disturbance in attention	Hyperkinesia
Eye disorders			Diplopia, vision blurred	
Ear and labyrinth disorders		Vertigo		
Respiratory, thoracic and mediastinal disorders		Cough		
Gastrointestinal disorders		Abnormal pain, diarrhea, dyspepsia, vomiting, nausea.		
Skin and subcutaneous tissue disorders		Rash	Eczema, pruritus	
Musculoskeletal and connective tissue disorders			Myalgia	
General disorders and administration site conditions		Asthenia/fatigue		
Injury poisoning and procedural complication			Injury	

Description of selected adverse reactions
The risk of anorexia is higher when topiramate is co administered with levetiracetam. In several alopecia cases, recovery was observed when levetiracetam was d Available many experience, and a superience of the superience of t Adverse reactions
Pancytopenia (with bone marrow suppression identified in some of the cases),
agranulocytosis, leukopenia, neutropenia
Electrocardiogram QT prolonged Cardiac disorders Toxic epidermal necrolysis, Stevens-Johnson syndrome, erythema multiforme, alopecia, Angioedema

Muscular weakness, rhabdomyolysis and blood creatine phosphokinase increased

Description of selected adverse reactions
The prevalence of rhabdomyolysis and blood creatine phosphokinase increase is significantly higher in Japanese patients compared to non-Japanese patients. Rare cases of OT protonation have been seen in oos-marketing surveillance. Evidence also suocests a possible predisposition of the Japanese population to neurolegic malignant syndrome (NMS).

Liver function test abnormal, weight decreased

agement of Overdose
an acute overdose, the stomach may be emptied by gastric lavage or by induction of emesis. There is no specific antidote for levetiracetam. Treatment of an overdose will be symptomatic may include hemodialysis. The dialyser extraction efficiency is 60 % for levetiracetam and 74 % for the primary metabolite.

Pharmacodynamic properties

Pharmacotherapeutic group: Antiepileptics, ATC code: N03AX14 The active substance, levetirac chemically unrelated to existing antiepileptic active substances.

In vitro studies show that leveliracetam affects intraneuronal Ca2+ levels by partial inhibition of N-type Ca2+ currents and by reducing the release of Ca2+ from intraneuronal stores addition it partially reverses the reductions in GABA- and glycine-gated currents induced by zinc and -carbolines, Furthermore, leveltracetam has been shown in in vitro studies to bind specific site in order brain tissue. This binding site is the synaptic vesicle protein 2A, believed to be involved in vesicle fusion enurorizansmitter release. Leveltracetam and related and show a rank order of affinity for binding to the synaptic vesicle protein 2A which correlates with the potency of their anti-seizure protection in the mouse audiogenic model of epilepsy. finding suggests that the interaction between leveltracetam and the synaptic vesicle protein 2A seems to contribute to the articipation between leveltracetam and the synaptic vesicle protein 2A seems to contribute to the articipation between leveltracetam and the synaptic vesicle protein 2A seems to contribute to the articipation between leveltracetam and the synaptic vesicle protein 2A seems to contribute to the articipation between leveltracetam and the synaptic vesicle protein 2A seems to contribute to the articipation between the vertical and not synaptic vesicle protein 2A seems to contribute to the articipation between the vertical and not synaptic vesicle protein 2A seems to contribute to the articipation between the vertical and not synaptic vesicle protein 2A seems to contribute to the articipation between the vertical and the synaptic vesicle protein 2A seems to contribute to the articipation that the vertical and the synaptic vesicle protein 2A seems to contribute to the articipation that the vest of the vertical and the synaptic vesicle protein 2A seems to contribute to the articipation that the vest of the vest of

Due to its complete (F=1) absorption, over the therapeutic dose range, levetiracetam plasma concentrations are similarly predictable following both oral or intrave. Therefore there is no need for plasma level monitoring of levetiracetam.

Metabolism Leveltracetam is not extensively metabolised in humans. The major metabolic pathway (24 % of the dose) is an enzymatic hydrolysis of the acetamide group. Production of the primary metabolite, ucb L057, is not supported by liver cytochrome P450 isoforms. Hydrolysis of the acetamide group was measurable in a large number of tissues including blood cells. The metabolite, urb LIS7, is not supported by inver cytochronic From teaching. It is not supported by invertigation of the pyrrolidone ring (1,5 % of the does) and the other one by opening of the pyrrolidone ring (0,9 % of the fose). Two minor metabolites were also identified. One was obtained by hydrocytation of the pyrrolidone ring (1,5 % of the does) and the other one by opening of the pyrrolidone ring (0,9 % of the fose). We have the pyrrolidone ring (1,5 % of the does) are determined in the conversion was evidenced in vivo for neither flowering calcium or fix primary metabolite have been shown not to inhibit the major human liver cytochrome P459 look (CYPAAL, 2As, 2C9, 2C19, 2D6, 2E1 and 1A2), glucuronyl transferase (UGT1A1 and UGT1A6) and epoxide hydroxylase activities. In addition, levetiracetam does not affect the in vitro glucuronidation of valproic acid.

Elimination
The plasma half-life in adults was 7±1 hours and did not vary either with dose, route of administration or repeated administration. The mean total body clearance was 0.96 ml/min/kg. The major route of excretion was via urine, accounting for a mean 95 % of the dose (approximately 93 % of the dose was excreted within 48 hours). Excretion via faeces accounted for only 0.3 % of the dose.

hours during interdialytic and intradialytic periods, respectively. The fractional removal of leveltracetam was 51 % during a typical 4-hour dialysis session. Hegastic imagaiment In subjects with mild (Child-Pugh A) to moderate (Child-Pugh B) hepatic impairment, the pharmacokinetics of leveltracetam were unchanged. In subjects with severe hepatic impairment (Child-Pugh C, total body clearance was 50% that of normal subjects, but decreased renal clearance accounted for most of the decrease. No dose adjustment is needed in patients with mild to moderate hepatic impairment. In patients with severe hepatic impairment preference and the patients of the decrease of the patients with mild to moderate hepatic impairment. In patients with severe hepatic impairment creating in the creating in the patients with mild to moderate hepatic impairment. In patients with severe hepatic impairment creating in the creating in the patients with severe hepatic impairment. In patients with severe hepatic impairment of the decrease.

Paediatric population
Infants and children (1 month to 4 years) Following single dose administration (20 mg/kg) of a 100 mg/ml oral solution to epileptic children (1 month to 4 years), levetiracetam was rapidly absorbed and peak plasma concentrations were observed approximately 1 hour after dosing. The pharmacokinetic results indicated that hat-life was shorter (5.3 h) than for adults (7.2 h) and apparent clearance was faster (1.5 ml/minkg) than for adults (9.5 ml/minkg). In the population pharmacokinetic analysis conducted in patients from 1 month to 16 years of age, body weight was significant overleted to apparent volume of distribution. Age also had an influence on both parameters. This effect was pronounced for the younger infants, and subsided as age increase in observable, observable registed in the properties of a paediation of the population pharmacokinetic analyses, there was about a 2% increase of apparent clearance of evertire cells mitted to the properties of age, plasma concentrations and pharmacokinetic model derived steady-state exposure (AUCO-12) were within the range of the adult intravenous exposure as well as that observed in Children (4 to 12 years).

Preclinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, genotoxicity and carcinogenicity.

Adverse effects not observed in clinical studies, but seen in the rat and to a lesser extent in the mouse, at exposure levels similar to human exposure levels and with possible relevance for clinical use were fiver changes indicating an adaptive response such as increased event and contributant rhypertrophy, fath fulfillration and increased liver enzymes in plasma.

Carcinogenesis
Rats were dosed with levetiracetam in the diet for 104 weeks at doses of 50, 300 and 1800 mg/kg/day.
The highest dose corresponds to 6 times the maximum recommended daily human dose (MRHD) of 3000 mg on a mg/m2 basis and it also provided systemic exposure (AUC) approximately 6 times that achieved in humans received wing the MRHD. There was no evidence of carcinogenicity, two studies have been conducted in mice. In one study, mice received levertracidam in the diet increase in a carcinogenicity of the control of

Classics of the Care of the Ca

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ose. Macrogol 6000. Colloidal anhydrous silica. Magnesium stearate

Coaling
250 mg film-coated tablets: Opadry 85F20694 (Polyvinyl alcohol-part.hydrolyzed, Titanium dioxide (E171), Macrogol 3350, Talc, Indigo carmine aluminium lake (E132)).
-500 mg film-coated tablets: Opadry 85F22004 (Polyvinyl alcohol-part.hydrolyzed, Titanium dioxide (E171), Macrogol 3350, Talc, Inno xxide yellow (E172)).
-750 mg film coated tablets: Opadry 85F23402 (Polyvinyl alcohol-part.hydrolyzed, Titanium dioxide (E171), Macrogol 3350, Talc, sunset yellow FCF aluminium lake (E110), Iron oxide red (E172).
-1000 mg film-coated tablets: Opadry 85F18422 (Polyvinyl alcohol-part.hydrolyzed, Titanium dioxide (E171), Macrogol 3350, Talc).

incompatibilities
The Concentrate must not be mixed with other medicinal products except compatible diluents. It was found to be physically compatible and chemically stable when mixed with the following diluents for at least 24 hours and stored in PVC bags at controlled room temperature 20°C to 25°C (68°-77°F): Sodium chloride (0.9%) injection, Lactated Ringer's injection, Dextrose 5% injection.

Compatibility and Stability
Levelir cactain injection was found to be physically compatible and chemically stable when mixed with the following diluents and antiepileptic drugs for at least 24 hours and stored in polyvinyl
choide (PVC) bags at controlled room temperature 20°C to 25°C (68°-77°F). From a microbiological point of view, the product should be used immediately after dilution. If not used
immediately after the user deposition and conditions ratio to its area the responsibility of the user (person administering the medication) and would normally not be longer than 24 hours at 2 to 8°C

Other Antiepileptic Drugs

Giobal Distribution Centre, Survey No. 41, Bachupally (V), Bachupally (M), Medchal - Malkajgiri (Dist.), Hyderabad - 500 090, Telangana, INDIA.

® Regd. Trade Mark of UCB Pharma S.A.

Film-coated tablet: 2 years.

Carl solution: 2 years

Concentrate for solution for infusion: - 2 years. From a microbiological point of view, the product should be used immediately after dilution. If not used immediately, in-use storage time and conditions prior to use are the responsibility of the user and would normally not be longer than 24 hours at 2 to 8°C (35-46°F), unless dilution has taken place in controlled and validated aseptic conditions.

Nature and contents of container:

(Apparal 250 mg film coaded tablets are packaged in strips containing 10 tablets placed into a monocarton.

(Apparal 250 mg film-coated tablets are packaged in strips containing 10 tablets placed into a monocarton.

(Apparal 500 mg film-coated tablets are packaged in strips containing 10 tablets placed into a monocarton.

(Apparal 750 mg film-coated tablets are packaged in strips containing 10 tablets placed into a monocarton.

(Apparal 1000 mg film-coated tablets are packaged in strips containing 10 tablets placed into a monocarton.

(Apparal 1000 mg/mic oral coultion is supplied as 100 ml bottles.

(Apparal 1000 mg/mic oral coultion is supplied as 100 ml bottles.

(Apparal 1000 mg/mic concentrate for solution for infusion is packed in glass vials (type I) with rubber stoppers and sealed with an aluminium/polypropylene flip off cap. The vials are placentors of 10 vials. Each stringtie use vial contains 5 ml or 10 concentrate.

CONTACT FOR MEDICAL INFORMATION, REPORT SIDE EFFECTS/ADVERSE REACTIONS OR PRODUCT QUALITY COMPLAINTS:
Tel: +91 22 6700 4932
Mobile: +91 99200 54290
Modical Information Mailbox:ucbcares.in@ucb.com
Drug Safety Mailbox: ds.ind@ucb.com

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Manufactured in India by: Pure & Cure Healthcare Pvt. Ltd. (A subsidiary of Akums Drugs & Pharmaceutic

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