

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

**SCHEDULING STATUS**

**S5**

**1. NAME OF THE MEDICINE**

AVERTZ™ 25 Capsules

AVERTZ™ 75 Capsules

AVERTZ™ 150 Capsules

**2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

Each hard capsule contains 25 mg, 75 mg or 150 mg of pregabalin

Sugar content:

AVERTZ™ 25 Capsules - Contains 36 mg sugar (lactose monohydrate) per capsule.

AVERTZ™ 75 Capsules - Contains 8 mg sugar (lactose monohydrate) per capsule.

AVERTZ™ 150 Capsules - Contains 16 mg sugar (lactose monohydrate) per capsule.

For full list of excipients, see section 6.1.

**3. PHARMACEUTICAL FORM**

Capsules, hard

AVERTZ™ 25: White to off white powder filled in size '4' hard gelatin capsules with opaque white coloured cap and opaque white coloured body, imprinted 'RDY' on cap and '291' on body with black imprinting ink.

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

AVERTZ™ 75: White to off white powder filled in size '4' hard gelatin capsules with opaque red coloured cap and opaque white coloured body imprinted 'RDY' on cap and '293' on body with black imprinting ink.

AVERTZ™ 150: White to off white powder filled in size '2' hard gelatin capsules with opaque white coloured cap and opaque white coloured body imprinted 'RDY' on cap and '295' on body with black imprinting ink

#### **4. CLINICAL PARTICULARS**

##### **4.1 Therapeutic indications**

AVERTZ™ capsules are indicated for the treatment of adult patients with neuropathic pain due to Herpes zoster infections and diabetes.

##### **4.2 Posology and method of administration**

###### **Posology:**

The recommended starting dose for AVERTZ™ is 75 mg twice daily (150 mg/day), with or without food. Based on individual patient response and tolerability, the dose may be increased to 150 mg twice daily after an interval of 3 to 7 days. In accordance with current clinical practice, if AVERTZ™ has to be discontinued, it is recommended this should be done gradually over a minimum of 1 week.

###### **Special Populations**

###### **Patients with renal impairment:**

AVERTZ™ is eliminated from the systemic circulation primarily by renal excretion as unchanged pregabalin. As AVERTZ™ clearance is directly proportional to creatinine

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

clearance (see section 5.2), dosage reduction in patients with compromised renal function must be individualised according to creatinine clearance (CL<sub>Cr</sub>), as indicated in Table 1 determined using the following formula:

$$CL_{Cr}(\text{ml/min}) = \left[ \frac{1.23 \times [140 - \text{age (years)}] \times \text{weight (kg)}}{\text{serum creatinine } (\mu\text{mol/l})} \right] (\times 0.85 \text{ for female patients})$$

**Table 1: AVERTZ™ dosage adjustment based on renal function <sup>(1)</sup>**

Creatinine clearance (CL <sub>CR</sub> ) (ml/min)	Total AVERTZ™ daily dose*		Dose regimen
	Starting dose (mg/day)	Maximum dose (mg/day)	
≥ 60	150	300	BD
30 - 60	75	150	OD or BD
15 - 30	25 - 50	75	OD or BD
< 15	25	25 - 50	OD
Supplementary dosage following haemodialysis (mg)			
	25	50	Single dose'
BD = Two divided doses OD = Once daily * Total daily dose (mg/day) should be divided as indicated by dose regimen to provide mg/dose ' Supplementary dose is a single additional dose			

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

AVERTZ is removed effectively from plasma by haemodialysis (50 % of medicine in 4 hours). For patients receiving haemodialysis, the AVERTZ™ daily dose should be adjusted based on renal function. In addition to the daily dose, a supplementary dose should be given immediately following every 4-hour haemodialysis treatment (see Table 1).

***Use in patients with hepatic impairment:***

No dosage adjustment is required for patients with hepatic impairment.

***Paediatric patients:***

The safety and effectiveness of AVERTZ™ in patients below the age of 18 years with neuropathic pain has not been established.

***Use in the elderly (over 65 years of age):***

No dosage adjustment is necessary for elderly patients unless their renal function is compromised, see Table 1.

**Method of administration**

AVERTZ™ is given orally with or without food.

**4.3 Contraindications**

Known hypersensitivity to pregabalin or to any of the excipients of AVERTZ™ (see section 6.1).

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

#### **4.4 Special warnings and precautions for use**

##### ***Diabetic patients***

Diabetic patients who gain weight on AVERTZ™ treatment may need to adjust hypoglycaemic medicines.

##### ***Hypersensitivity reactions***

AVERTZ™ 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***

AVERTZ™ treatment has been associated with dizziness and somnolence, which could increase the occurrence of accidental injury (fall) in the elderly population. There have been reports of loss of consciousness, confusion and mental impairment. Patients should be advised to exercise caution until they are familiar with the potential effects of AVERTZ™.

##### ***Vision-related effects***

Visual adverse reactions have been reported, including loss of vision, visual blurring or other changes of visual acuity, many of which were transient.

Discontinuation of AVERTZ™ may result in resolution or improvement of these visual symptoms.

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

***Renal failure***

Renal failure has been reported and discontinuation of pregabalin, as in AVERTZ™, did show reversibility of this adverse reaction.

***Withdrawal symptoms***

After discontinuation of short-term and long-term treatment with pregabalin, as in AVERTZ™, withdrawal symptoms have been observed. The following events have been mentioned: insomnia, headache, nausea, anxiety, diarrhoea, flu syndrome, nervousness, depression, pain, convulsion, hyperhidrosis and dizziness, suggestive of physical dependence. The patient should be informed about this at the start of the treatment.

Convulsions, including status epilepticus and grand mal convulsions, may occur during AVERTZ™ use or shortly after discontinuing.

Discontinuation of long-term treatment of pregabalin, as in AVERTZ™, data suggest that the incidence and severity of withdrawal symptoms may be dose related.

***Congestive heart failure***

Congestive heart failure has been reported. These reactions are mostly seen in elderly cardiovascular compromised patients during pregabalin treatment for a neuropathic indication. AVERTZ™ should be used with caution in these patients. Discontinuation of AVERTZ™ may resolve the reaction.

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

***Suicidal ideation and behaviour***

Suicidal ideation and behaviour have been reported in patients treated with gabapentinoids such as pregabalin in AVERTZ™ in several indications.

Therefore, patients should be monitored for signs of suicidal ideation and behaviours and appropriate treatment should be considered. Patients and caregivers should be advised to seek medical advice should signs of suicidal ideation or behaviour emerge.

***Reduced lower gastrointestinal tract function***

Reduced lower gastrointestinal tract function (e.g., intestinal obstruction, paralytic ileus, constipation) has been reported when pregabalin was co-administered with medicines that have the potential to produce constipation, such as opioid analgesics. When AVERTZ™ and opioids will be used in combination, measures to prevent constipation may be considered (especially in female patients and the elderly).

***Concomitant use with opioids***

Caution is advised when prescribing pregabalin concomitantly with opioids due to risk of CNS depression (see section 4.5). In a case control study of opioid users, those patients who took pregabalin concomitantly with an opioid had an increased risk for opioid-related death compared to opioid use alone. This increased risk was observed at low doses of pregabalin ( $\leq 300$  mg) and there was a trend for a greater risk at high doses of pregabalin ( $> 300$  mg).

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

***Misuse, abuse potential or dependence***

Cases of misuse, abuse and dependence have been reported. Caution should be exercised in patients with a history of substance abuse and the patient should be monitored for symptoms of AVERTZ™ misuse, abuse or dependence (development of tolerance, dose escalation, intentional overdose, drug-seeking behaviour have been reported).

***Encephalopathy***

Encephalopathy has been reported, mostly in patients with underlying conditions that may precipitate encephalopathy.

***Treatment of central neuropathic pain due to spinal cord injury***

In the treatment of central neuropathic pain due to spinal cord injury the incidence of adverse reactions in general, central nervous system adverse reactions and especially somnolence was increased. This may be attributed to an additive effect due to concomitant medicines (e.g., anti-spasticity medicines) needed for this condition. This should be considered when prescribing AVERTZ™ in this condition.

***Severe cutaneous adverse reactions (SCARs)***

SCARs including Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), which can be life-threatening or fatal, have been reported rarely in association with pregabalin treatment. At the time of prescription patients should be advised of the signs and



**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

symptoms and monitored closely for skin reactions. If signs and symptoms suggestive of these reactions appear, pregabalin should be withdrawn immediately and an alternative treatment considered (as appropriate).

***Respiratory depression***

There have been reports of severe respiratory depression in relation to pregabalin use.

Patients with compromised respiratory function, respiratory or neurological disease, renal impairment, concomitant use of CNS depressants and the elderly may be at higher risk of experiencing this severe adverse reaction. Dose adjustments may be necessary in these patients (see section 4.2).

***Lactose intolerance***

AVERTZ™ contains lactose monohydrate. Patients with rare hereditary problems of galactose intolerance, total Lapp lactase deficiency or glucose-galactose malabsorption should not take AVERTZ™.

**4.5 Interaction with other medicines 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 medicine metabolism *in vitro*, and is not bound to plasma proteins, AVERTZ™ is unlikely to produce, or be subject to, pharmacokinetic interactions.

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

***In vivo studies and population pharmacokinetic analysis***

Accordingly, in *in vivo* studies no clinically relevant pharmacokinetic interactions were observed between AVERTZ™ and phenytoin, carbamazepine, valproic acid, lamotrigine, gabapentin, lorazepam, oxycodone or ethanol. In addition, population pharmacokinetic analysis indicated that the 3 commonly used medicine classes, oral antidiabetics, diuretics and insulin, and the commonly used anti-epileptic medicines, phenytoin, carbamazepine, valproic acid, lamotrigine, phenobarbitone, tiagabine and topiramate had no clinically significant effect on pregabalin clearance.

Similarly, these analyses indicated that AVERTZ™ had no clinically significant effect on the clearance of phenytoin, carbamazepine, valproic acid, lamotrigine, topiramate and phenobarbitone.

***Oral contraceptives, norethisterone and/or ethinyl oestradiol***

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

***Central nervous system influencing medicines***

Multiple oral doses of AVERTZ™ co-administered with oxycodone, lorazepam, or ethanol did not result in clinically important effects on respiration.

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

AVERTZ™ appears to be additive in the impairment of cognitive and gross motor function caused by oxycodone. AVERTZ™ may potentiate the effects of ethanol and lorazepam. In the post marketing experience, there are reports of respiratory failure and coma in patients taking AVERTZ™ and other CNS depressant medications.

***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**

**Women of child-bearing potential/ contraception in males and females**

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

**Pregnancy**

There are no adequate data on the use of AVERTZ™ in pregnant women. Studies in animals have shown reproductive toxicity. The potential risk to humans is unknown. Therefore, AVERTZ™ should not be used during pregnancy.

**Breast-feeding**

Pregabalin is excreted into human milk (see section 5.2). The effect of

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

pregabalin on newborns/infants is unknown. Therefore, breastfeeding is not recommended during treatment with AVERTZ™.

## **Fertility**

There are no clinical data on the effects of pregabalin on female fertility. A fertility study in female rats has shown adverse reproductive effects. Fertility studies in male rats have shown adverse reproductive and development effects.

### **4.7 Effects on ability to drive and use machines**

AVERTZ™ frequently causes dizziness and somnolence. Head and body injuries and road traffic incidents have also been reported with pregabalin, as contained in AVERTZ™.

Therefore, patients are advised not to drive, operate complex machinery or engage in other potentially hazardous activities until it is known whether this medicine affects their ability to perform these activities.

### **4.8 Undesirable effects**

#### ***a) Summary of adverse effects***

The most frequently reported adverse reactions were dizziness and somnolence. The most frequent adverse reactions resulting in discontinuation from pregabalin treatment are dizziness and somnolence.

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

In the table below the adverse reactions are listed by system organ class and frequency. Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

Additional reactions reported from post marketing experience are also included and listed according to frequency.

***b) Tabulated summary of adverse reactions***

<b>MedDRA system organ class</b>	<b>Frequency</b>	<b>Adverse reactions</b>
Infections and infestations:	Frequent	Nasopharyngitis
Blood and the lymphatic system disorders:	Less frequent	Neutropenia
Immune system disorders:	Less frequent	Hypersensitivity, angioedema, allergic reaction
Metabolism and nutrition disorders:	Frequent	Increased appetite
	Less frequent	Anorexia, hypoglycaemia

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

Psychiatric disorders:	Frequent	Euphoric mood, confusion, irritability, disorientation, insomnia, decreased libido
	Less frequent	Hallucination, panic attack, restlessness, agitation, depression, depressed mood, elevated mood, aggression, mood swings, depersonalisation, word finding difficulty, abnormal dreams, increased libido, anorgasmia, apathy, disinhibition
	Unknown frequency	Suicidal ideation and behaviour
Nervous system disorders:	Frequent	Dizziness, somnolence, headache, ataxia, coordination abnormal, tremor, dysarthria, amnesia, memory impairment,

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

		disturbance in attention, paraesthesia, hypoesthesia, sedation, balance disorder, lethargy
	Less frequent	Syncope, stupor, myoclonus, loss of consciousness, psychomotor hyperactivity, dyskinesia, dizziness postural, intention tremor, nystagmus, cognitive disorder, mental impairment, speech disorder, hyporeflexia, hyperaesthesia, burning sensation, ageusia, malaise, convulsions, parosmia, hypokinesia, dysgraphia
Eye disorders:	Frequent	Blurred vision, diplopia
	Less frequent	Peripheral vision loss, visual disturbance, eye

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

		swelling, visual field defect, reduced visual acuity, eye pain, asthenopia, photopsia, dry eye, increased lacrimation, eye irritation, vision loss, keratitis, oscillopsia, altered visual depth perception, mydriasis, strabismus, visual brightness
Ear and labyrinth: disorders:	Frequent	Vertigo
	Less frequent	Hyperacusis
Cardiac disorders:	Less frequent	Tachycardia, first degree atrioventricular block, sinus bradycardia, congestive heart failure, QT prolongation, sinus tachycardia, sinus dysrhythmia
Vascular disorders:	Less frequent	Hypotension, hypertension, hot flushes,



**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

		flushing, peripheral coldness
Respiratory, thoracic and mediastinal disorders:	Less frequent	Dyspnoea, epistaxis, cough, nasal congestion, rhinitis, snoring, nasal dryness, pulmonary oedema, throat tightness
	Frequency unknown	Respiratory depression
Gastrointestinal disorders:	Frequent	Vomiting, nausea, constipation, diarrhoea, flatulence, abdominal distension, dry mouth
	Less frequent	Gastro-oesophageal reflux disease, salivary hypersecretion, oral hypoaesthesia, ascites, pancreatitis, swollen tongue, dysphagia

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

Hepatobiliary disorders:	Less frequent	Elevated liver enzymes*, jaundice, hepatic failure, hepatitis
Skin and subcutaneous tissue disorders:	Less frequent	Papular rash, urticaria, hyperhidrosis, pruritus, Stevens-Johnson syndrome, cold sweat, Toxic Epidermal Necrolysis
Musculoskeletal and connective tissue disorders:	Frequent	Muscle cramp, arthralgia, back pain, pain in limb, cervical spasm
	Less frequent	Joint swelling, myalgia, muscle twitching, neck pain, muscle stiffness, rhabdomyolysis
Renal and urinary disorders:	Less frequent	Urinary incontinence, dysuria, renal failure, oliguria, urinary retention
	Frequent	Erectile dysfunction

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

Reproductive system and breast disorders:	Less frequent	Sexual dysfunction, delayed ejaculation, dysmenorrhoea, breast pain, amenorrhoea, breast discharge, breast enlargement, gynaecomastia
General disorders and administration site conditions:	Frequent	Peripheral oedema, oedema, abnormal gait, fall, feeling drunk, feeling abnormal, fatigue
	Less frequent	Generalised oedema, face oedema, chest tightness, pain, pyrexia, thirst, chills, asthenia
Investigations:	Frequent	Increased weight
	Less frequent	Increased blood creatine phosphokinase, increased alanine aminotransferase, increased aspartate aminotransferase, increased blood glucose,

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

		decreased platelet count, increased blood creatinine, decreased blood potassium, decreased weight, decreased white blood cell count
--	--	---

\* Alanine aminotransferase increased (ALT) and aspartate aminotransferase increased (AST).

***c) Description of selected adverse reactions***

After discontinuation of short-term and long-term treatment with pregabalin withdrawal symptoms have been observed in some patients. The following reactions have been mentioned: insomnia, headache, nausea, anxiety, diarrhoea, flu syndrome, convulsions, nervousness, depression, pain, hyperhidrosis and dizziness, suggestive of physical dependence. The patient should be informed about this at the start of the treatment.

Concerning discontinuation of long-term treatment of pregabalin, data suggest that the incidence and severity of withdrawal symptoms may be dose related.

***Reporting of suspected adverse reactions***

Reporting suspected adverse reactions after authorisation of the medicine is important. It

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

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 Reactions Reporting Form”, found online under SAHPRA’s publications:

<https://www.sahpra.org.za/Publications/Index/8>

#### **4.9 Overdose**

In the post marketing experience, the most commonly reported adverse reactions observed when pregabalin was taken in overdose included affective disorder, somnolence, confusional state, agitation, depression 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 (see section 4.2 Table 1).

## **5. PHARMACOLOGICAL PROPERTIES**

### **5.1 Pharmacodynamic properties**

Category and Class: A 2.5 Central nervous system depressants –

Anticonvulsants: including antiepileptics.

Pharmacotherapeutic group: Anti-epileptics, other anti-epileptics ATC code: N03AX16

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

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

Pregabalin binds to an auxiliary subunit ( $\alpha 2$ - $\sigma$  protein) of voltage-gated calcium channels in the central nervous system, displacing (3H)-gabapentin.

Two lines of evidence indicate that binding of pregabalin to the  $\alpha 2$ - $\sigma$  site is required for analgesic activity in animal models: (1) Studies with the inactive R-enantiomer and other structural derivatives of pregabalin and (2) Studies of pregabalin in mutant mice with defective binding to the  $\alpha 2$ - $\sigma$  protein. In addition, pregabalin reduces the release of several neurotransmitters, including glutamate, noradrenaline, and substance P. The significance of these effects for the clinical pharmacology of pregabalin is not known.

Pregabalin does not interact with either GABA<sub>A</sub> or GABA<sub>B</sub> receptors; it is not converted metabolically into GABA or a GABA agonist; it is not an inhibitor of GABA uptake or degradation. <sup>(1)</sup>

Pregabalin prevents pain-related behaviours in animal models of neuropathic and post-surgical pain, including hyperalgesia and allodynia.

## **5.2 Pharmacokinetic properties**

Pregabalin steady-state pharmacokinetics are similar in healthy volunteers and patients with chronic pain.

### ***Absorption***

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

Pregabalin is 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  $\geq 90\%$  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  $C_{\max}$  by approximately 25 – 30 % and a delay in  $T_{\max}$  to approximately 2,5 hours. However, administration of pregabalin with food has no clinically significant effect on the extent of pregabalin absorption.

### ***Distribution***

In pre-clinical studies, pregabalin has been shown to readily 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.

### **Metabolism**

Pregabalin undergoes negligible metabolism in humans. Following a dose of radio-labelled 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 pre-clinical studies, there was no indication of racemisation of pregabalin S-enantiomer to the R-enantiomer.

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

## **Elimination**

Pregabalin is eliminated unchanged from the systemic circulation primarily by renal excretion.

Pregabalin mean elimination half-life is 6,3 hours. Pregabalin plasma clearance and renal clearance are directly proportional to creatinine clearance (see "Pharmacokinetics in special patient groups – Renal impairment"). Dosage adjustment in patients with reduced renal function or undergoing haemodialysis is necessary (see section 4.2).

## ***Linearity/non-linearity***

Pregabalin pharmacokinetics are linear over the recommended daily dose range. Inter-subject pharmacokinetic variability for pregabalin is low (< 20 %). Multiple dose pharmacokinetics are predictable from single-dose data.

## ***Special Populations:***

### ***Renal impairment:***

Pregabalin clearance is directly proportional to creatinine clearance. In addition, pregabalin is effectively removed from plasma by haemodialysis (following a 4-hour 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 (see section 4.2).



**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

***Elderly (over 65 years of age):***

Pregabalin clearance tends to decrease with increasing age. This decrease in pregabalin oral clearance is consistent with decreases in creatinine clearance associated with increasing age. Reduction of pregabalin dose may be required in patients who have age related compromised renal function (see section 4.2).

***Gender***

Clinical trials indicate that gender does not have a clinically significant influence on the plasma concentrations of pregabalin.

**6. PHARMACEUTICAL PARTICULARS**

**6.1 List of excipients**

Lactose monohydrate.

Maize starch.

Talc.

The hard gelatin capsule shell of AVERTZ™<sub>25</sub> and AVERTZ™<sub>150</sub> consists of:

Gelatin.

Sodium lauryl sulphate.

Titanium dioxide.

The hard gelatin capsule shell of AVERTZ™<sub>75</sub> consists:

Gelatin.

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

Iron oxide.

Sodium lauryl sulphate.

Titanium dioxide.

The imprinting ink consists of:

Black iron oxide.

Butyl alcohol.

Dehydrated alcohol.

Isopropyl alcohol.

Potassium hydroxide.

Propylene glycol.

Purified water.

Shellac.

Strong ammonia solution.

## **6.2 Incompatibilities**

Not applicable.

## **6.3 Shelf life**

3 years.

## **6.4 Special precautions for storage**

Store at or below 25 °C.

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

Keep the blisters in the carton until required for use.

### **6.5 Nature and contents of container**

AVERTZ capsules are available in clear, transparent PVC (Polyvinyl chloride) film coated with PVdC (polyvinylidene chloride) on one side – Alu (Aluminium) Foil blisters of 14 capsules, in pack sizes of 14's, 28's, 56's and 112's.

Not all pack sizes are marketed.

### **6.6 Special precautions for disposal and other handling**

Any unused product or waste material should be returned to the pharmacist for safe disposal in accordance with local requirements.

## **7. HOLDER OF CERTIFICATE OF REGISTRATION**

Dr Reddy's Laboratories (Pty) Ltd.

Block B, 204 Rivonia Road

Morningside

Sandton

2057

**DR. REDDY'S LABORATORIES (PTY) LTD**  
**APPROVED PROFESSIONAL INFORMATION**  
**AVERTZ™ 25/75/150**

**8. REGISTRATION NUMBERS**

AVERTZ™ 25: 51/2.5/0439

AVERTZ™ 75: 51/2.5/0440

AVERTZ™ 150: 51/2.5/0441

**9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE  
AUTHORISATION**

18 January 2022

**10. DATE OF REVISION OF THE TEXT**

10 March 2023