

**ANNEX I**  
**SUMMARY OF PRODUCT CHARACTERISTICS**

## **1. NAME OF THE MEDICINAL PRODUCT**

Duloxetine Zentiva 30 mg gastro-resistant hard capsules  
Duloxetine Zentiva 60 mg gastro-resistant hard capsules

## **2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

### Duloxetine Zentiva 30 mg gastro-resistant hard capsules

Each capsule contains duloxetine hydrochloride equivalent to 30 mg duloxetine.

#### Excipient(s) with known effect

Each capsule contains 42.26 – 46.57 mg of sucrose.

### Duloxetine Zentiva 60 mg gastro-resistant hard capsules

Each capsule contains duloxetine hydrochloride equivalent to 60 mg duloxetine.

#### Excipient(s) with known effect

Each capsule contains 84.51 - 93.14 mg of sucrose.

For the full list of excipients, see section 6.1.

## **3. PHARMACEUTICAL FORM**

Gastro-resistant hard capsule

### Duloxetine Zentiva 30 mg gastro-resistant hard capsules

Hard opaque gelatin capsules of length approx. 15.9 mm with white opaque body and light-blue opaque cap which contain off-white to light-brown-yellow spherical pellets.

### Duloxetine Zentiva 60 mg gastro-resistant hard capsules

Hard opaque gelatin capsules of length approx. 19.4 mm with ivory opaque body and light-blue opaque cap which contain off-white to light-brown-yellow spherical pellets.

## **4. CLINICAL PARTICULARS**

### **4.1 Therapeutic indications**

Treatment of major depressive disorder.  
Treatment of diabetic peripheral neuropathic pain.  
Treatment of generalised anxiety disorder.

Duloxetine Zentiva is indicated in adults.  
For further information see section 5.1.

## 4.2 Posology and method of administration

### Posology

#### *Major depressive disorder*

The starting and recommended maintenance dose is 60 mg once daily with or without food. Dosages above 60 mg once daily, up to a maximum dose of 120 mg per day have been evaluated from a safety perspective in clinical trials. However, there is no clinical evidence suggesting that patients not responding to the initial recommended dose may benefit from dose up-titrations.

Therapeutic response is usually seen after 2-4 weeks of treatment.

After consolidation of the antidepressive response, it is recommended to continue treatment for several months, in order to avoid relapse. In patients responding to duloxetine, and with a history of repeated episodes of major depression, further long-term treatment at a dose of 60 to 120 mg/day could be considered.

#### *Generalised anxiety disorder*

The recommended starting dose in patients with generalised anxiety disorder is 30 mg once daily with or without food. In patients with insufficient response the dose should be increased to 60 mg, which is the usual maintenance dose in most patients.

In patients with co-morbid major depressive disorder, the starting and maintenance dose is 60 mg once daily (please see also dosing recommendation above).

Doses up to 120 mg per day have been shown to be efficacious and have been evaluated from a safety perspective in clinical trials. In patients with insufficient response to 60 mg, escalation up to 90 mg or 120 mg may therefore be considered. Dose escalation should be based upon clinical response and tolerability.

After consolidation of the response, it is recommended to continue treatment for several months, in order to avoid relapse.

#### *Diabetic peripheral neuropathic pain*

The starting and recommended maintenance dose is 60 mg daily with or without food. Dosages above 60 mg once daily, up to a maximum dose of 120 mg per day administered in evenly divided doses, have been evaluated from a safety perspective in clinical trials. The plasma concentration of duloxetine displays large inter-individual variability (see section 5.2). Hence, some patients that respond insufficiently to 60 mg may benefit from a higher dose.

Response to treatment should be evaluated after 2 months. In patients with inadequate initial response, additional response after this time is unlikely.

The therapeutic benefit should be reassessed regularly (at least every three months) (see section 5.1).

### Special populations

#### *Elderly*

No dosage adjustment is recommended for elderly patients solely on the basis of age. However, as with any medicine, caution should be exercised when treating the elderly, especially with duloxetine 120 mg per day for major depressive disorder or generalised anxiety disorder, for which data are limited (see sections 4.4 and 5.2).

#### *Hepatic impairment*

Duloxetine Zentiva must not be used in patients with liver disease resulting in hepatic impairment (see sections 4.3 and 5.2).

#### *Renal impairment*

No dosage adjustment is necessary for patients with mild or moderate renal dysfunction (creatinine clearance 30 to 80 ml/min). Duloxetine Zentiva must not be used in patients with severe renal impairment (creatinine clearance <30 ml/min; see section 4.3).

#### *Paediatric population*

Duloxetine should not be used in children and adolescents under the age of 18 years for the treatment of major depressive disorder because of safety and efficacy concerns (see sections 4.4, 4.8 and 5.1).

The safety and efficacy of duloxetine for the treatment of generalised anxiety disorder in paediatric patients aged 7-17 years have not been established. Current available data are described in sections 4.8, 5.1 and 5.2.

The safety and efficacy of duloxetine for the treatment of diabetic peripheral neuropathic pain has not been studied. No data are available.

#### *Discontinuation of treatment*

Abrupt discontinuation should be avoided. When stopping treatment with Duloxetine Zentiva the dose should be gradually reduced over a period of at least one to two weeks in order to reduce the risk of withdrawal reactions (see sections 4.4 and 4.8). If intolerable symptoms occur following a decrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed dose may be considered. Subsequently, the physician may continue decreasing the dose, but at a more gradual rate.

#### Method of administration

For oral use.

### **4.3 Contraindications**

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Concomitant use of Duloxetine Zentiva with nonselective, irreversible monoamine oxidase inhibitors (MAOIs) is contraindicated (see section 4.5).

Liver disease resulting in hepatic impairment (see section 5.2).

Duloxetine Zentiva should not be used in combination with fluvoxamine, ciprofloxacin or enoxacin (i.e. potent CYP1A2 inhibitors) since the combination results in elevated plasma concentrations of duloxetine (see section 4.5).

Severe renal impairment (creatinine clearance <30 ml/min) (see section 4.4).

The initiation of treatment with Duloxetine Zentiva is contraindicated in patients with uncontrolled hypertension that could expose patients to a potential risk of hypertensive crisis (see sections 4.4 and 4.8).

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

#### Mania and seizures

Duloxetine should be used with caution in patients with a history of mania or a diagnosis of bipolar disorder, and/or seizures.

### Mydriasis

Mydriasis has been reported in association with duloxetine, therefore, caution should be used when prescribing Duloxetine Zentiva to patients with increased intraocular pressure, or those at risk of acute narrow-angle glaucoma.

### Blood pressure and heart rate

Duloxetine has been associated with an increase in blood pressure and clinically significant hypertension in some patients. This may be due to the noradrenergic effect of duloxetine. Cases of hypertensive crisis have been reported with duloxetine, especially in patients with pre-existing hypertension. Therefore, in patients with known hypertension and/or other cardiac disease, blood pressure monitoring is recommended, especially during the first month of treatment. Duloxetine should be used with caution in patients whose conditions could be compromised by an increased heart rate or by an increase in blood pressure. Caution should also be exercised when duloxetine is used with medicinal products that may impair its metabolism (see section 4.5). For patients who experience a sustained increase in blood pressure while receiving duloxetine either dose reduction or gradual discontinuation should be considered (see section 4.8). In patients with uncontrolled hypertension duloxetine should not be initiated (see section 4.3).

### Renal impairment

Increased plasma concentrations of duloxetine occur in patients with severe renal impairment on haemodialysis (creatinine clearance <30 ml/min). For patients with severe renal impairment, see section 4.3. See section 4.2 for information on patients with mild or moderate renal dysfunction.

### Serotonin syndrome

As with other serotonergic agents, serotonin syndrome, a potentially life-threatening condition, may occur with duloxetine treatment, particularly with concomitant use of other serotonergic agents (including SSRIs, SNRIs, tricyclic antidepressants or triptans), with agents that impair metabolism of serotonin such as MAOIs, with antipsychotics or other dopamine antagonists or with opioids such as buprenorphine (with or without naloxone), tramadol and pethidine that may affect the serotonergic neurotransmitter systems (see sections 4.3 and 4.5).

Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, coma), autonomic instability (e.g., tachycardia, labile blood pressure, hyperthermia), neuromuscular aberrations (e.g. hyperreflexia, incoordination) and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhoea).

If concomitant treatment with duloxetine and other serotonergic agents that may affect the serotonergic and/or dopaminergic neurotransmitter systems is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases.

If serotonin syndrome is suspected, a dose reduction or discontinuation of therapy should be considered depending on the severity of the symptoms.

### St. John's wort

Adverse reactions may be more common during concomitant use of Duloxetine Zentiva and herbal preparations containing St. John's wort (*Hypericum perforatum*).

### Suicide

#### *Major Depressive Disorder and Generalised Anxiety Disorder*

Depression is associated with an increased risk of suicidal thoughts, self-harm and suicide (suicide-related events). This risk persists until significant remission occurs. As improvement may not occur

during the first few weeks or more of treatment, patients should be closely monitored until such improvement occurs. It is general clinical experience that the risk of suicide may increase in the early stages of recovery.

Other psychiatric conditions for which duloxetine is prescribed can also be associated with an increased risk of suicide-related events. In addition, these conditions may be co-morbid with major depressive disorder. The same precautions observed when treating patients with major depressive disorder should therefore be observed when treating patients with other psychiatric disorders.

Patients with a history of suicide-related events or those exhibiting a significant degree of suicidal thoughts prior to commencement of treatment are known to be at greater risk of suicidal thoughts or suicidal behaviour, and should receive careful monitoring during treatment. A meta-analysis of placebo-controlled clinical trials of antidepressant medicinal products in psychiatric disorders showed an increased risk of suicidal behaviour with antidepressants compared to placebo in patients less than 25 years old.

Cases of suicidal thoughts and suicidal behaviours have been reported during duloxetine therapy or early after treatment discontinuation (see section 4.8).

Close supervision of patients and in particular those at high risk should accompany medicinal product therapy especially in early treatment and following dose changes. Patients (and caregivers of patients) should be alerted about the need to monitor for any clinical worsening, suicidal behaviour or thoughts and unusual changes in behaviour and to seek medical advice immediately if these symptoms present.

#### *Diabetic Peripheral Neuropathic Pain*

As with other medicinal products with similar pharmacological action (antidepressants), isolated cases of suicidal ideation and suicidal behaviours have been reported during duloxetine therapy or early after treatment discontinuation. Concerning risk factors for suicidality in depression, see above. Physicians should encourage patients to report any distressing thoughts or feelings at any time.

#### Use in children and adolescents under 18 years of age

Duloxetine should not be used in the treatment of children and adolescents under the age of 18 years. Suicide-related behaviours (suicide attempts and suicidal thoughts), and hostility (predominantly aggression, oppositional behaviour and anger), were more frequently observed in clinical trials among children and adolescents treated with antidepressants compared to those treated with placebo. If, based on clinical need, a decision to treat is nevertheless taken, the patient should be carefully monitored for the appearance of suicidal symptoms (see section 5.1). In addition, long-term safety data in children and adolescents concerning growth, maturation and cognitive and behavioural development are lacking (see section 4.8).

#### Haemorrhage

There have been reports of bleeding abnormalities, such as ecchymoses, purpura and gastrointestinal haemorrhage with selective serotonin reuptake inhibitors (SSRIs) and serotonin/noradrenaline reuptake inhibitors (SNRIs), including duloxetine. Duloxetine may increase the risk of postpartum haemorrhage (see section 4.6). Caution is advised in patients taking anticoagulants and/or medicinal products known to affect platelet function (e.g. NSAIDs or acetylsalicylic acid (ASA)), and in patients with known bleeding tendencies.

#### Hyponatraemia

Hyponatraemia has been reported when administering duloxetine, including cases with serum sodium lower than 110 mmol/l. Hyponatraemia may be due to a syndrome of inappropriate anti-diuretic hormone secretion (SIADH). The majority of cases of hyponatraemia were reported in the elderly, especially when coupled with a recent history of, or condition pre-disposing to, altered fluid balance.

Caution is required in patients at increased risk for hyponatraemia, such as elderly, cirrhotic, or dehydrated patients or patients treated with diuretics.

#### Discontinuation of treatment

Withdrawal symptoms when treatment is discontinued are common, particularly if discontinuation is abrupt (see section 4.8). In clinical trials adverse events seen on abrupt treatment discontinuation occurred in approximately 45% of patients treated with duloxetine and 23% of patients taking placebo. The risk of withdrawal symptoms seen with SSRI's and SNRI's may be dependent on several factors including the duration and dose of therapy and the rate of dose reduction. The most commonly reported reactions are listed in section 4.8. Generally these symptoms are mild to moderate, however, in some patients they may be severe in intensity. They usually occur within the first few days of discontinuing treatment, but there have been very rare reports of such symptoms in patients who have inadvertently missed a dose. Generally, these symptoms are self-limiting and usually resolve within 2 weeks, though in some individuals they may be prolonged (2-3 months or more). It is therefore advised that duloxetine should be gradually tapered when discontinuing treatment over a period of no less than 2 weeks, according to the patient's needs (see section 4.2).

#### Elderly

Data on the use of duloxetine 120 mg in elderly patients with major depressive disorder and generalised anxiety disorder are limited. Therefore, caution should be exercised when treating the elderly with the maximum dosage (see sections 4.2 and 5.2).

#### Akathisia/psychomotor restlessness

The use of duloxetine has been associated with the development of akathisia, characterised by a subjectively unpleasant or distressing restlessness and need to move often accompanied by an inability to sit or stand still. This is most likely to occur within the first few weeks of treatment. In patients who develop these symptoms, increasing the dose may be detrimental.

#### Medicinal products containing duloxetine

Duloxetine is used under different trademarks in several indications (treatment of diabetic neuropathic pain, major depressive disorder, generalised anxiety disorder and stress urinary incontinence). The use of more than one of these products concomitantly should be avoided.

#### Hepatitis/increased liver enzymes

Cases of liver injury, including severe elevations of liver enzymes (>10 times upper limit of normal), hepatitis and jaundice have been reported with duloxetine (see section 4.8). Most of them occurred during the first months of treatment. The pattern of liver damage was predominantly hepatocellular. Duloxetine should be used with caution in patients treated with other medicinal products associated with hepatic injury.

#### Sexual dysfunction

Selective serotonin reuptake inhibitors (SSRIs)/serotonin norepinephrine reuptake inhibitors (SNRIs) may cause symptoms of sexual dysfunction (see section 4.8). There have been reports of long-lasting sexual dysfunction where the symptoms have continued despite discontinuation of SSRIs/SNRIs.

#### Sucrose

Duloxetine Zentiva gastro-resistant hard capsules contain sucrose. Patients with rare hereditary problems of fructose intolerance, glucose-galactose malabsorption or sucrase-isomaltase insufficiency should not take this medicine.

## 4.5 Interaction with other medicinal products and other forms of interaction

### Monoamine oxidase inhibitors (MAOIs)

Due to the risk of serotonin syndrome, duloxetine should not be used in combination with non-selective irreversible monoamine oxidase inhibitors (MAOIs), or within at least 14 days of discontinuing treatment with an MAOI. Based on the half-life of duloxetine, at least 5 days should be allowed after stopping Duloxetine Zentiva before starting an MAOI (see section 4.3).

The concomitant use of Duloxetine Zentiva with selective, reversible MAOIs, like moclobemide, is not recommended (see section 4.4). The antibiotic linezolid is a reversible non-selective MAOI and should not be given to patients treated with duloxetine (see section 4.4).

### Inhibitors of CYP1A2

Because CYP1A2 is involved in duloxetine metabolism, concomitant use of duloxetine with potent inhibitors of CYP1A2 is likely to result in higher concentrations of duloxetine. Fluvoxamine (100 mg once daily), a potent inhibitor of CYP1A2, decreased the apparent plasma clearance of duloxetine by about 77% and increased AUC<sub>0-t</sub> 6-fold. Therefore Duloxetine Zentiva should not be administered in combination with potent inhibitors of CYP1A2 like fluvoxamine (see section 4.3).

### CNS medicinal products

The risk of using duloxetine in combination with other CNS-active medicinal products has not been systematically evaluated, except in the cases described in this section. Consequently, caution is advised when duloxetine is taken in combination with other centrally acting medicinal products or substances, including alcohol and sedative medicinal products (e.g. benzodiazepines, morphinomimetics, antipsychotics, phenobarbital, sedative antihistamines).

### Serotonergic agents

In rare cases, serotonin syndrome has been reported in patients using SSRIs/SNRIs concomitantly with serotonergic agents. Caution is advisable if duloxetine is used concomitantly with serotonergic agents like SSRIs, SNRIs, tricyclic antidepressants like clomipramine or amitriptyline, MAOIs like moclobemide or linezolid, St. John's wort (*Hypericum perforatum*) or triptans, buprenorphine, tramadol, pethidine and tryptophan (see section 4.4).

### Effect of duloxetine on other medicinal products

#### *Medicinal products metabolised by CYP1A2*

The pharmacokinetics of theophylline, a CYP1A2 substrate, were not significantly affected by co-administration with duloxetine (60 mg twice daily).

#### *Medicinal products metabolised by CYP2D6*

Duloxetine is a moderate inhibitor of CYP2D6. When duloxetine was administered at a dose of 60 mg twice daily with a single dose of desipramine, a CYP2D6 substrate, the AUC of desipramine increased 3-fold. The co-administration of duloxetine (40 mg twice daily) increases steady state AUC of tolterodine (2 mg twice daily) by 71 %, but does not affect the pharmacokinetics of its active 5-hydroxyl metabolite and no dosage adjustment is recommended. Caution is advised if duloxetine is co-administered with medicinal products that are predominantly metabolised by CYP2D6 (risperidone, tricyclic antidepressants [TCAs] such as nortriptyline, amitriptyline, and imipramine) particularly if they have a narrow therapeutic index (such as flecainide, propafenone and metoprolol).

#### *Oral contraceptives and other steroidal agents*

Results of *in vitro* studies demonstrate that duloxetine does not induce the catalytic activity of CYP3A. Specific *in vivo* drug interaction studies have not been performed.



#### *Anticoagulants and antiplatelet agents*

Caution should be exercised when duloxetine is combined with oral anticoagulants or antiplatelet agents due to a potential increased risk of bleeding attributable to a pharmacodynamic interaction. Furthermore, increases in INR values have been reported when duloxetine was co-administered to patients treated with warfarin. However, concomitant administration of duloxetine with warfarin under steady state conditions, in healthy volunteers, as part of a clinical pharmacology study, did not result in a clinically significant change in INR from baseline or in the pharmacokinetics of R- or S-warfarin.

#### Effects of other medicinal products on duloxetine

##### *Antacids and H<sub>2</sub> antagonists*

Co-administration of duloxetine with aluminium- and magnesium-containing antacids or duloxetine with famotidine had no significant effect on the rate or extent of duloxetine absorption after administration of a 40 mg oral dose.

##### *Inducers of CYP1A2*

Population pharmacokinetic analyses have shown that smokers have almost 50% lower plasma concentrations of duloxetine compared with non-smokers.

## **4.6 Fertility, pregnancy and lactation**

### Fertility

In animal studies, duloxetine had no effect on male fertility, and effects in females were only evident at doses that caused maternal toxicity.

### Pregnancy

Studies in animals have shown reproductive toxicity at systemic exposure levels (AUC) of duloxetine lower than the maximum clinical exposure (see section 5.3).

Two large observational studies do not suggest an overall increased risk of major congenital malformation (one from the US including 2,500 exposed to duloxetine during the first trimester and one from the EU including 1,500 exposed to duloxetine during the first trimester). The analysis on specific malformations such as cardiac malformations shows inconclusive results.

In the EU study, maternal exposure to duloxetine during late pregnancy (at any time from 20 weeks gestational age to delivery) was associated with an increased risk for preterm birth (less than 2-fold, corresponding to approximately 6 additional premature births per 100 women treated with duloxetine late in pregnancy). The majority occurred between 35 and 36 weeks of gestation. This association was not seen in the US study.

The US observational data have provided evidence of an increased risk (less than 2-fold) of postpartum haemorrhage following duloxetine exposure within the month prior to birth.

Epidemiological data have suggested that the use of SSRIs in pregnancy, particularly in late pregnancy, may increase the risk of persistent pulmonary hypertension in the newborn (PPHN). Although no studies have investigated the association of PPHN to SNRI treatment, this potential risk cannot be ruled out with duloxetine taking into account the related mechanism of action (inhibition of the re-uptake of serotonin).

As with other serotonergic medicinal products, discontinuation symptoms may occur in the neonate after maternal duloxetine use near term. Discontinuation symptoms seen with duloxetine may include hypotonia, tremor, jitteriness, feeding difficulty, respiratory distress and seizures. The majority of cases have occurred either at birth or within a few days of birth.

Duloxetine should be used in pregnancy only if the potential benefit justifies the potential risk to the foetus. Women should be advised to notify their physician if they become pregnant, or intend to become pregnant, during therapy.

### Breast-feeding

Duloxetine is very weakly excreted into human milk based on a study of 6 lactating patients, who did not breast feed their children. The estimated daily infant dose on a mg/kg basis is approximately 0.14% of the maternal dose (see section 5.2). As the safety of duloxetine in infants is not known, the use of duloxetine while breast-feeding is not recommended.

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

No studies on the effects on the ability to drive and use machines have been performed. Duloxetine may be associated with sedation and dizziness. Patients should be instructed that if they experience sedation or dizziness they should avoid potentially hazardous tasks such as driving or operating machinery.

### **4.8 Undesirable effects**

#### Summary of the safety profile

The most commonly reported adverse reactions in patients treated with duloxetine were nausea, headache, dry mouth, somnolence, and dizziness. However, the majority of common adverse reactions were mild to moderate, they usually started early in therapy, and most tended to subside even as therapy was continued.

#### Tabulated summary of adverse reactions

Table 1 gives the adverse reactions observed from spontaneous reporting and in placebo-controlled clinical trials.

*Table 1: Adverse reactions*

Frequency estimate: Very common ( $\geq 1/10$ ), common ( $\geq 1/100$  to  $< 1/10$ ), uncommon ( $\geq 1/1,000$  to  $< 1/100$ ), rare ( $\geq 1/10,000$  to  $< 1/1,000$ ), very rare ( $< 1/10,000$ ).

Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

<b>Very common</b>	<b>Common</b>	<b>Uncommon</b>	<b>Rare</b>	<b>Very Rare</b>
<i>Infections and infestations</i>				
		Laryngitis		
<i>Immune system disorders</i>				
			Anaphylactic reaction Hyper-sensitivity disorder	
<i>Endocrine disorders</i>				
			Hypo-thyroidism	
<i>Metabolism and nutrition disorders</i>				
	Decreased appetite	Hyperglycaemia (reported especially in diabetic patients)	Dehydration Hyponatraemia SIADH <sup>6</sup>	
<i>Psychiatric disorders</i>				
	Insomnia Agitation Libido decreased Anxiety Orgasm abnormal Abnormal dreams	Suicidal ideation <sup>5,7</sup> Sleep disorder Bruxism Disorientation Apathy	Suicidal behaviour <sup>5,7</sup> Mania Hallucinations Aggression and anger <sup>4</sup>	

Very common	Common	Uncommon	Rare	Very Rare
<i>Nervous system disorders</i>				
Headache Somnolence	Dizziness Lethargy Tremor Paraesthesia	Myoclonus Akathisia <sup>7</sup> Nervousness Disturbance in attention Dysgeusia Dyskinesia Restless legs syndrome Poor quality sleep	Serotonin syndrome <sup>6</sup> Convulsion <sup>1</sup> Psychomotor restlessness <sup>6</sup> Extra-pyramidal symptoms <sup>6</sup>	
<i>Eye disorders</i>				
	Blurred vision	Mydriasis Visual impairment	Glaucoma	
<i>Ear and labyrinth disorders</i>				
	Tinnitus <sup>1</sup>	Vertigo Ear pain		
<i>Cardiac disorders</i>				
	Palpitations	Tachycardia Supra-ventricular arrhythmia, mainly atrial fibrillation		
<i>Vascular disorders</i>				
	Blood pressure increase <sup>3</sup> Flushing	Syncope <sup>2</sup> Hypertension <sup>3,7</sup> Orthostatic hypotension <sup>2</sup> Peripheral coldness	Hypertensive crisis <sup>3,6</sup>	
<i>Respiratory, thoracic and mediastinal disorders</i>				
	Yawning	Throat tightness Epistaxis	Interstitial lung disease <sup>10</sup> Eosinophilic pneumonia <sup>6</sup>	
<i>Gastrointestinal disorders</i>				
Nausea Dry mouth	Constipation Diarrhoea Abdominal pain Vomiting Dyspepsia Flatulence	Gastrointestinal haemorrhage <sup>7</sup> Gastroenteritis Eructation Gastritis Dysphagia	Stomatitis Haematochezia Breath odour Microscopic colitis <sup>9</sup>	
<i>Hepato-biliary disorders</i>				
		Hepatitis <sup>3</sup> Elevated liver enzymes (ALT, AST, alkaline phosphatase) Acute liver injury	Hepatic failure <sup>6</sup> Jaundice <sup>6</sup>	
<i>Skin and subcutaneous tissue disorders</i>				
	Sweating increased Rash	Night sweats Urticaria Dermatitis contact Cold sweat Photo-sensitivity reactions Increased tendency to bruise	Stevens-Johnson Syndrome <sup>6</sup> Angio-neurotic oedema <sup>6</sup>	Cutaneous vasculitis

Very common	Common	Uncommon	Rare	Very Rare
<i>Musculoskeletal and connective tissue disorders</i>				
	Musculo-skeletal pain Muscle spasm	Muscle tightness Muscle twitching	Trismus	
<i>Renal and urinary disorders</i>				
	Dysuria Pollakiuria	Urinary retention Urinary hesitation Nocturia Polyuria Urine flow decreased	Urine odour abnormal	
<i>Reproductive system and breast disorders</i>				
	Erectile dysfunction Ejaculation disorder Ejaculation delayed	Gynaecological haemorrhage Menstrual disorder Sexual dysfunction Testicular pain	Menopausal symptoms Galactorrhoea Hyperprolactinaemia Postpartum haemorrhage <sup>6</sup>	
<i>General disorders and administration site conditions</i>				
	Falls <sup>8</sup> Fatigue	Chest pain <sup>7</sup> Feeling abnormal Feeling cold Thirst Chills Malaise Feeling hot Gait disturbance		
<i>Investigations</i>				
	Weight decrease	Weight increase Blood creatine phosphokinase increased Blood potassium increased	Blood cholesterol increased	

<sup>1</sup> Cases of convulsion and cases of tinnitus have also been reported after treatment discontinuation.

<sup>2</sup> Cases of orthostatic hypotension and syncope have been reported especially at the initiation of treatment.

<sup>3</sup> See section 4.4.

<sup>4</sup> Cases of aggression and anger have been reported particularly early in treatment or after treatment discontinuation.

<sup>5</sup> Cases of suicidal ideation and suicidal behaviours have been reported during duloxetine therapy or early after treatment discontinuation (see section 4.4).

<sup>6</sup> Estimated frequency of post-marketing surveillance reported adverse reactions; not observed in placebo-controlled clinical trials.

<sup>7</sup> Not statistically significantly different from placebo.

<sup>8</sup> Falls were more common in the elderly ( $\geq 65$  years old)

<sup>9</sup> Estimated frequency based on all clinical trial data.

<sup>10</sup> Estimated frequency based on placebo-controlled clinical trials.

### Description of selected adverse reactions

Discontinuation of duloxetine (particularly when abrupt) commonly leads to withdrawal symptoms. Dizziness, sensory disturbances (including paraesthesia or electric shock-like sensations, particularly in the head), sleep disturbances (including insomnia and intense dreams), fatigue, somnolence, agitation or anxiety, nausea and/or vomiting, tremor, headache, myalgia, irritability, diarrhoea, hyperhidrosis and vertigo are the most commonly reported reactions.

Generally, for SSRIs and SNRIs, these events are mild to moderate and self-limiting, however, in some patients they may be severe and/or prolonged. It is therefore advised that when duloxetine

treatment is no longer required, gradual discontinuation by dose tapering should be carried out (see sections 4.2 and 4.4).

In the 12 week acute phase of three clinical trials of duloxetine in patients with diabetic neuropathic pain, small but statistically significant increases in fasting blood glucose were observed in duloxetine-treated patients. HbA1c was stable in both duloxetine-treated and placebo-treated patients. In the extension phase of these studies, which lasted up to 52 weeks, there was an increase in HbA1c in both the duloxetine and routine care groups, but the mean increase was 0.3% greater in the duloxetine-treated group. There was also a small increase in fasting blood glucose and in total cholesterol in duloxetine-treated patients while those laboratory tests showed a slight decrease in the routine care group.

The heart rate-corrected QT interval in duloxetine-treated patients did not differ from that seen in placebo-treated patients. No clinically significant differences were observed for QT, PR, QRS, or QTcB measurements between duloxetine-treated and placebo-treated patients.

### Paediatric population

A total of 509 paediatric patients aged 7 to 17 years with major depressive disorder and 241 paediatric patients aged 7 to 17 years with generalised anxiety disorder were treated with duloxetine in clinical trials. In general, the adverse reaction profile of duloxetine in children and adolescents was similar to that seen for adults.

A total of 467 paediatric patients initially randomized to duloxetine in clinical trials experienced a 0.1 kg mean decrease in weight at 10-weeks compared with a 0.9 kg mean increase in 353 placebo-treated patients. Subsequently, over the four- to six-month extension period, patients on average trended toward recovery to their expected baseline weight percentile based on population data from age- and gender-matched peers.

In studies of up to 9 months an overall mean decrease of 1% in height percentile (decrease of 2% in children (7-11 years) and increase of 0.3% in adolescents (12-17 years)) was observed in duloxetine-treated paediatric patients (see section 4.4).

### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via [the national reporting system listed in Appendix V](#).

## **4.9 Overdose**

Cases of overdoses, alone or in combination with other medicinal products, with duloxetine doses of 5400 mg were reported. Some fatalities have occurred, primarily with mixed overdoses, but also with duloxetine alone at a dose of approximately 1000 mg. Signs and symptoms of overdose (duloxetine alone or in combination with other medicinal products) included somnolence, coma, serotonin syndrome, seizures, vomiting and tachycardia.

No specific antidote is known for duloxetine but if serotonin syndrome ensues, specific treatment (such as with cyproheptadine and/or temperature control) may be considered. A free airway should be established. Monitoring of cardiac and vital signs is recommended, along with appropriate symptomatic and supportive measures. Gastric lavage may be indicated if performed soon after ingestion or in symptomatic patients. Activated charcoal may be useful in limiting absorption. Duloxetine has a large volume of distribution and forced diuresis, haemoperfusion, and exchange perfusion are unlikely to be beneficial.

## 5. PHARMACOLOGICAL PROPERTIES

### 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Other antidepressants, ATC code: N06AX21

#### Mechanism of action

Duloxetine is a combined serotonin (5-HT) and noradrenaline (NA) reuptake inhibitor. It weakly inhibits dopamine reuptake with no significant affinity for histaminergic, dopaminergic, cholinergic and adrenergic receptors. Duloxetine dose-dependently increases extracellular levels of serotonin and noradrenaline in various brain areas of animals.

#### Pharmacodynamic effects

Duloxetine normalised pain thresholds in several preclinical models of neuropathic and inflammatory pain and attenuated pain behaviour in a model of persistent pain. The pain inhibitory action of duloxetine is believed to be a result of potentiation of descending inhibitory pain pathways within the central nervous system.

#### Clinical efficacy and safety

##### *Major Depressive Disorder*

Duloxetine was studied in a clinical programme involving 3,158 patients (1,285 patient-years of exposure) meeting DSM-IV criteria for major depression. The efficacy of duloxetine at the recommended dose of 60 mg once a day was demonstrated in three out of three randomised, double-blind, placebo-controlled, fixed dose acute studies in adult outpatients with major depressive disorder. Overall, duloxetine's efficacy has been demonstrated at daily doses between 60 and 120 mg in a total of five out of seven randomised, double-blind, placebo-controlled, fixed dose acute studies in adult outpatients with major depressive disorder.

Duloxetine demonstrated statistical superiority over placebo as measured by improvement in the 17-item Hamilton Depression Rating Scale (HAM-D) total score (including both the emotional and somatic symptoms of depression). Response and remission rates were also statistically significantly higher with duloxetine compared with placebo. Only a small proportion of patients included in pivotal clinical trials had severe depression (baseline HAM-D > 25).

In a relapse prevention study, patients responding to 12-weeks of acute treatment with open-label duloxetine 60 mg once daily were randomised to either duloxetine 60 mg once daily or placebo for a further 6-months. Duloxetine 60 mg once daily demonstrated a statistically significant superiority compared to placebo ( $p=0.004$ ) on the primary outcome measure, the prevention of depressive relapse, as measured by time to relapse. The incidence of relapse during the 6-months double-blind follow-up period was 17% and 29% for duloxetine and placebo, respectively.

During 52 weeks of placebo-controlled double blind treatment, duloxetine-treated patients with recurrent MDD had a significantly longer symptom free period ( $p < 0.001$ ) compared with patients randomised to placebo. All patients had previously responded to duloxetine during open-label duloxetine treatment (28 to 34 weeks) at a dose of 60 to 120 mg/day. During the 52-week placebo-controlled double blind treatment phase 14.4% of the duloxetine-treated patients and 33.1% of the placebo-treated patients experience a return of their depressive symptoms ( $p < 0.001$ ).

The effect of duloxetine 60 mg once a day in elderly depressed patients ( $\geq 65$  years) was specifically examined in a study that showed a statistically significant difference in the reduction of the HAM-D17 score for duloxetine-treated patients compared to placebo. Tolerability of duloxetine 60 mg once daily in elderly patients was comparable to that seen in the younger adults. However, data on elderly patients exposed to the maximum dose (120 mg per day) are limited and thus, caution is recommended when treating this population.

### *Generalised Anxiety Disorder*

Duloxetine demonstrated statistically significant superiority over placebo in five out of five studies including four randomised, double-blind, placebo-controlled acute studies and a relapse prevention study in adult patients with generalised anxiety disorder.

Duloxetine demonstrated statistically significant superiority over placebo as measured by improvement in the Hamilton Anxiety Scale (HAM-A) total score and by the Sheehan Disability Scale (SDS) global functional impairment score. Response and remission rates were also higher with duloxetine compared to placebo. Duloxetine showed comparable efficacy results to venlafaxine in terms of improvements on the HAM-A total score.

In a relapse prevention study, patients responding to 6 months of acute treatment with open-label duloxetine were randomised to either duloxetine or placebo for a further 6-months. Duloxetine 60 mg to 120 mg once daily demonstrated statistically significant superiority compared to placebo ( $p < 0.001$ ) on the prevention of relapse, as measured by time to relapse. The incidence of relapse during the 6-months double-blind follow-up period was 14% for duloxetine and 42% for placebo.

The efficacy of duloxetine 30-120 mg (flexible dosing) once a day in elderly patients (>65 years) with generalised anxiety disorder was evaluated in a study that demonstrated statistically significant improvement in the HAM-A total score for duloxetine treated patients compared to placebo treated patients. The efficacy and safety of duloxetine 30-120 mg once daily in elderly patients with generalised anxiety disorder was similar to that seen in studies of younger adult patients. However, data on elderly patients exposed to the maximum dose (120 mg per day) are limited and, thus, caution is recommended when using this dose with the elderly population.

### *Diabetic Peripheral Neuropathic Pain*

The efficacy of duloxetine as a treatment for diabetic neuropathic pain was established in 2 randomised, 12-week, double-blind, placebo-controlled, fixed dose studies in adults (22 to 88 years) having diabetic neuropathic pain for at least 6 months. Patients meeting diagnostic criteria for major depressive disorder were excluded from these trials. The primary outcome measure was the weekly mean of 24-hour average pain, which was collected in a daily diary by patients on an 11-point Likert scale.

In both studies, duloxetine 60 mg once daily and 60 mg twice daily significantly reduced pain compared with placebo. The effect in some patients was apparent in the first week of treatment. The difference in mean improvement between the two active treatment arms was not significant. At least 30% reported pain reduction was recorded in approximately 65% of duloxetine treated patients versus 40% for placebo. The corresponding figures for at least 50% pain reduction were 50% and 26% respectively. Clinical response rates (50% or greater improvement in pain) were analysed according to whether or not the patient experienced somnolence during treatment. For patients not experiencing somnolence, clinical response was observed in 47% of patients receiving duloxetine and 27% of patients on placebo. Clinical response rates in patients experiencing somnolence were 60% on duloxetine and 30% on placebo. Patients not demonstrating a pain reduction of 30% within 60 days of treatment were unlikely to reach this level during further treatment.

In an open label long-term uncontrolled study, the pain reduction in patients responding to 8-weeks of acute treatment of duloxetine 60 mg once daily was maintained for a further 6-months as measured by change on the Brief Pain Inventory (BPI) 24-hour average pain item.

### Paediatric population

Duloxetine has not been studied in patients under the age of 7.

Two randomized, double-blind, parallel clinical trials were performed in 800 paediatric patients aged 7 to 17 years with major depressive disorder (see section 4.2). These two studies included a 10 week placebo and active (fluoxetine) controlled acute phase followed by six months period of active controlled extension treatment. Neither duloxetine (30-120 mg) nor the active control arm (fluoxetine

20-40 mg) statistically separated from placebo on change from baseline to endpoint in the Children's Depression Rating Scale-Revised (CDRS-R) total score. Discontinuation due to adverse events was higher in patients taking duloxetine compared with those treated with fluoxetine, mostly due to nausea. During the 10-week acute treatment period, suicidal behaviours were reported (duloxetine 0/333 [0%], fluoxetine 2/225 [0.9%], placebo 1/220 [0.5%]). Over the entire 36-week course of the study, 6 out of 333 patients initially randomized to duloxetine and 3 out of 225 patients initially randomized to fluoxetine experienced suicidal behaviour (exposure adjusted incidence 0.039 events per patient year for duloxetine, and 0.026 for fluoxetine). In addition, one patient who transitioned from placebo to duloxetine experienced a suicidal behaviour while taking duloxetine.

A randomised, double-blind, placebo-controlled study was performed in 272 patients aged 7-17 years with generalised anxiety disorder. The study included a 10 week placebo-controlled acute phase, followed by an 18 week extension treatment period. A flexible dose regimen was used in this study, to allow for slow dose escalation from 30 mg once daily to higher doses (maximum 120 mg once daily). Treatment with duloxetine showed a statistically significantly greater improvement in GAD symptoms, as measured by PARS severity score for GAD (mean difference between duloxetine and placebo of 2.7 points [95% CI 1.3-4.0]), after 10 weeks of treatment. The maintenance of the effect has not been evaluated. There was no statistically significant difference in discontinuation due to adverse events between duloxetine and placebo groups during the 10 week acute treatment phase. Two patients who transitioned from placebo to duloxetine after the acute phase experienced suicidal behaviours while taking duloxetine during the extension phase. A conclusion on the overall benefit/risk in this age group has not been established (see also sections 4.2 and 4.8).

A single study has been performed in paediatric patients with juvenile primary fibromyalgia syndrome (JPFS) in which the duloxetine-treated group did not separate from placebo group for the primary efficacy measure. Therefore, there is no evidence of efficacy in this paediatric patient population. The randomised, double-blind, placebo-controlled, parallel study of duloxetine was conducted in 184 adolescents aged 13 to 18 years (mean age 15.53 years) with JPFS. The study included a 13-week double-blind period where patients were randomised to duloxetine 30 mg/60 mg, or placebo daily. Duloxetine did not show efficacy in reducing pain as measured by primary outcome measure of Brief Pain Inventory (BPI) average pain score endpoint: least squares (LS) mean change from baseline in BPI average pain score at 13 weeks was -0.97 in the placebo group, compared with -1.62 in the duloxetine 30/60 mg group ( $p = 0.052$ ). The safety results from this study were consistent with the known safety profile of duloxetine.

The European Medicines Agency has waived the obligation to submit the results of studies with the reference medicinal product containing duloxetine in all subsets of the paediatric population in the treatment of major depressive disorder, diabetic neuropathic pain and generalised anxiety disorder. See section 4.2 for information on paediatric use.

## 5.2 Pharmacokinetic properties

Duloxetine is administered as a single enantiomer. Duloxetine is extensively metabolised by oxidative enzymes (CYP1A2 and the polymorphic CYP2D6), followed by conjugation. The pharmacokinetics of duloxetine demonstrate large intersubject variability (generally 50-60%), partly due to gender, age, smoking status and CYP2D6 metaboliser status.

### Absorption

Duloxetine is well absorbed after oral administration with a  $C_{max}$  occurring 6 hours post dose. The absolute oral bioavailability of duloxetine ranged from 32% to 80% (mean of 50%). Food delays the time to reach the peak concentration from 6 to 10 hours and it marginally decreases the extent of absorption (approximately 11 %). These changes do not have any clinical significance.



## Distribution

Duloxetine is approximately 96% bound to human plasma proteins. Duloxetine binds to both albumin and alpha-1 acid glycoprotein. Protein binding is not affected by renal or hepatic impairment.

## Biotransformation

Duloxetine is extensively metabolised and the metabolites are excreted principally in urine. Both cytochromes P450-2D6 and 1A2 catalyse the formation of the two major metabolites glucuronide conjugate of 4-hydroxy duloxetine and sulphate conjugate of 5-hydroxy 6-methoxy duloxetine. Based upon *in vitro* studies, the circulating metabolites of duloxetine are considered pharmacologically inactive. The pharmacokinetics of duloxetine in patients who are poor metabolisers with respect to CYP2D6 has not been specifically investigated. Limited data suggest that the plasma levels of duloxetine are higher in these patients.

## Elimination

The elimination half-life of duloxetine ranges from 8 to 17 hours (mean of 12 h). After an intravenous dose the plasma clearance of duloxetine ranges from 22 l/h to 46 l/h (mean of 36 l/h). After an oral dose the apparent plasma clearance of duloxetine ranges from 33 to 261 l/h (mean 101 l/h).

## Special populations

### *Gender*

Pharmacokinetic differences have been identified between males and females (apparent plasma clearance is approximately 50% lower in females). Based upon the overlap in the range of clearance, gender-based pharmacokinetic differences do not justify the recommendation for using a lower dose for female patients.

### *Age*

Pharmacokinetic differences have been identified between younger and elderly females ( $\geq 65$  years) (AUC increases by about 25% and half-life is about 25% longer in the elderly), although the magnitude of these changes is not sufficient to justify adjustments to the dose. As a general recommendation, caution should be exercised when treating the elderly (see sections 4.2 and 4.4).

### *Renal impairment*

End stage renal disease (ESRD) patients receiving dialysis had 2-fold higher duloxetine  $C_{max}$  and AUC values compared with healthy subjects. Pharmacokinetic data on duloxetine is limited in patients with mild or moderate renal impairment.

### *Hepatic impairment*

Moderate liver disease (Child Pugh Class B) affected the pharmacokinetics of duloxetine. Compared with healthy subjects, the apparent plasma clearance of duloxetine was 79% lower, the apparent terminal half-life was 2.3 times longer, and the AUC was 3.7 times higher in patients with moderate liver disease. The pharmacokinetics of duloxetine and its metabolites have not been studied in patients with mild or severe hepatic insufficiency.

### *Breast-feeding mothers*

The disposition of duloxetine was studied in 6 lactating women who were at least 12-weeks postpartum. Duloxetine is detected in breast milk, and steady-state concentrations in breast milk are about one-fourth those in plasma. The amount of duloxetine in breast milk is approximately 7  $\mu\text{g/day}$  while on 40 mg twice daily dosing. Lactation did not influence duloxetine pharmacokinetics.

### *Paediatric population*

Pharmacokinetics of duloxetine in paediatric patients aged 7 to 17 years with major depressive disorder following oral administration of 20 to 120 mg once daily dosing regimen was characterized using population modelling analyses based on data from 3 studies. The model-predicted duloxetine

steady state plasma concentrations in paediatric patients were mostly within the concentration range observed in adult patients.

### 5.3 Preclinical safety data

Duloxetine was not genotoxic in a standard battery of tests and was not carcinogenic in rats. Multinucleated cells were seen in the liver in the absence of other histopathological changes in the rat carcinogenicity study. The underlying mechanism and the clinical relevance are unknown. Female mice receiving duloxetine for 2 years had an increased incidence of hepatocellular adenomas and carcinomas at the high dose only (144 mg/kg/day), but these were considered to be secondary to hepatic microsomal enzyme induction. The relevance of this mouse data to humans is unknown. Female rats receiving duloxetine (45 mg/kg/day) before and during mating and early pregnancy had a decrease in maternal food consumption and body weight, oestrous cycle disruption, decreased live birth indices and progeny survival, and progeny growth retardation at systemic exposure levels estimated to be at the most at maximum clinical exposure (AUC). In an embryotoxicity study in the rabbit, a higher incidence of cardiovascular and skeletal malformations was observed at systemic exposure levels below the maximum clinical exposure (AUC). No malformations were observed in another study testing a higher dose of a different salt of duloxetine. In prenatal/postnatal toxicity studies in the rat, duloxetine induced adverse behavioural effects in the offspring at exposures below maximum clinical exposure (AUC).

Studies in juvenile rats reveal transient effects on neurobehaviour, as well as significantly decreased body weight and food consumption; hepatic enzyme induction; and hepatocellular vacuolation at 45 mg/kg/day. The general toxicity profile of duloxetine in juvenile rats was similar to that in adult rats. The no-adverse effect level was determined to be 20 mg/kg/day.

## 6. PHARMACEUTICAL PARTICULARS

### 6.1 List of excipients

#### Capsule content

Sucrose  
Maize starch  
Hydroxypropyl methylcellulose  
Talc  
Hydroxypropyl methylcellulose acetate succinate  
Triethyl citrate

#### Capsule shell

#### Duloxetine Zentiva 30 mg gastro-resistant hard capsules

##### *Capsule cap*

- Indigo carmine (E132)
- Titanium dioxide (E171)
- Gelatin

##### *Capsule body*

- Titanium dioxide (E171)
- Gelatin

#### Duloxetine Zentiva 60 mg gastro-resistant hard capsules

##### *Capsule cap*

- Indigo carmine (E132)
- Titanium dioxide (E171)
- Gelatin

#### *Capsule body*

- Yellow iron oxide (E172)
- Titanium dioxide (E171)
- Gelatin

### **6.2 Incompatibilities**

Not applicable.

### **6.3 Shelf life**

2 years

### **6.4 Special precautions for storage**

Store below 30 °C. Store in the original package in order to protect from moisture.

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

Opaque PVC/PCTFE/Alu blisters or transparent PVC/PVDC/Alu blisters.

Pack size:

Duloxetine Zentiva 30 mg gastro-resistant hard capsules

7, 28, 56, 84 and 98 capsules

Duloxetine Zentiva 60 mg gastro-resistant hard capsules

14, 28, 56, 84 and 98 capsules

Not all pack sizes may be marketed.

### **6.6 Special precautions for disposal**

No special requirements.

## **7. MARKETING AUTHORISATION HOLDER**

Zentiva, k.s.  
U Kabelovny 130  
102 37 Prague 10  
Czech Republic

## **8. MARKETING AUTHORISATION NUMBER(S)**

Duloxetine Zentiva 30 mg gastro-resistant hard capsules

EU/1/15/1028/001  
EU/1/15/1028/002  
EU/1/15/1028/003  
EU/1/15/1028/008  
EU/1/15/1028/009  
EU/1/15/1028/010  
EU/1/15/1028/011  
EU/1/15/1028/012  
EU/1/15/1028/013  
EU/1/15/1028/014

Duloxetine Zentiva 60 mg gastro-resistant hard capsules

EU/1/15/1028/004  
EU/1/15/1028/005  
EU/1/15/1028/006  
EU/1/15/1028/007  
EU/1/15/1028/015  
EU/1/15/1028/016  
EU/1/15/1028/017  
EU/1/15/1028/018  
EU/1/15/1028/019  
EU/1/15/1028/020

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

Date of first authorisation: 20/08/2015  
Date of latest renewal: 13/08/2020

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

Detailed information on this medicinal product is available on the website of the European Medicines Agency <http://www.ema.europa.eu>.

## **ANNEX II**

- A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE**
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE**
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION**
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT**

## **A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE**

Name and address of the manufacturer(s) responsible for batch release

S.C. Zentiva S.A  
Theodor Pallady Nr 50  
032266 Bucharest  
Romania

## **B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE**

Medicinal product subject to medical prescription.

## **C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION**

- **Periodic safety update reports (PSURs)**

The requirements for submission of PSURs for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

## **D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT**

- **Risk management plan (RMP)**

The marketing authorisation holder (MAH) shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the marketing authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

**ANNEX III**  
**LABELLING AND PACKAGE LEAFLET**

## **A. LABELLING**



**PARTICULARS TO APPEAR ON THE OUTER PACKAGING**

**PAPER FOLDING BOX**

**1. NAME OF THE MEDICINAL PRODUCT**

Duloxetine Zentiva 30 mg gastro-resistant hard capsules  
duloxetine

**2. STATEMENT OF ACTIVE SUBSTANCE(S)**

Each capsule contains duloxetine hydrochloride equivalent to 30 mg duloxetine.

**3. LIST OF EXCIPIENTS**

Contains sucrose.  
See leaflet for further information.

**4. PHARMACEUTICAL FORM AND CONTENTS**

Gastro-resistant hard capsule

7 gastro-resistant hard capsules  
28 gastro-resistant hard capsules  
56 gastro-resistant hard capsules  
84 gastro-resistant hard capsules  
98 gastro-resistant hard capsules

**5. METHOD AND ROUTE(S) OF ADMINISTRATION**

Read the package leaflet before use.  
Oral use

**6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

Keep out of the sight and reach of children.

**7. OTHER SPECIAL WARNING(S), IF NECESSARY**

**8. EXPIRY DATE**

EXP

**9. SPECIAL STORAGE CONDITIONS**

Store below 30 °C. Store in the original package in order to protect from moisture.

**10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE****11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Zentiva, k.s.  
U Kabelovny 130  
102 37 Prague 10  
Czech Republic

**12. MARKETING AUTHORISATION NUMBER(S)**

EU/1/15/1028/001  
EU/1/15/1028/002  
EU/1/15/1028/003  
EU/1/15/1028/008  
EU/1/15/1028/009  
EU/1/15/1028/010  
EU/1/15/1028/011  
EU/1/15/1028/012  
EU/1/15/1028/013  
EU/1/15/1028/014

**13. BATCH NUMBER**

Lot

**14. GENERAL CLASSIFICATION FOR SUPPLY****15. INSTRUCTIONS ON USE****16. INFORMATION IN BRAILLE**

Duloxetine Zentiva 30 mg

**17. UNIQUE IDENTIFIER – 2D BARCODE**

2D barcode carrying the unique identifier included.

## 18. UNIQUE IDENTIFIER – HUMAN READABLE DATA

PC  
SN  
NN

**MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS**

**BLISTER**

**1. NAME OF THE MEDICINAL PRODUCT**

Duloxetine Zentiva 30 mg gastro-resistant hard capsules  
duloxetine

**2. NAME OF THE MARKETING AUTHORISATION HOLDER**

Zentiva logo

**3. EXPIRY DATE**

EXP

**4. BATCH NUMBER**

Lot

**5. OTHER**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGING**

**PAPER FOLDING BOX**

**1. NAME OF THE MEDICINAL PRODUCT**

Duloxetine Zentiva 60 mg gastro-resistant hard capsules  
duloxetine

**2. STATEMENT OF ACTIVE SUBSTANCE(S)**

Each capsule contains duloxetine hydrochloride equivalent to 60 mg duloxetine.

**3. LIST OF EXCIPIENTS**

Contains sucrose.  
See leaflet for further information.

**4. PHARMACEUTICAL FORM AND CONTENTS**

Gastro-resistant hard capsule

14 gastro-resistant hard capsules  
28 gastro-resistant hard capsules  
56 gastro-resistant hard capsules  
84 gastro-resistant hard capsules  
98 gastro-resistant hard capsules

**5. METHOD AND ROUTE(S) OF ADMINISTRATION**

Read the package leaflet before use.  
Oral use

**6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

Keep out of the sight and reach of children.

**7. OTHER SPECIAL WARNING(S), IF NECESSARY**

**8. EXPIRY DATE**

EXP

**9. SPECIAL STORAGE CONDITIONS**

Store below 30 °C. Store in the original package in order to protect from moisture.

**10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE****11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Zentiva, k.s.  
U Kabelovny 130  
102 37 Prague 10  
Czech Republic

**12. MARKETING AUTHORISATION NUMBER(S)**

EU/1/15/1028/004  
EU/1/15/1028/005  
EU/1/15/1028/006  
EU/1/15/1028/007  
EU/1/15/1028/015  
EU/1/15/1028/016  
EU/1/15/1028/017  
EU/1/15/1028/018  
EU/1/15/1028/019  
EU/1/15/1028/020

**13. BATCH NUMBER**

Lot

**14. GENERAL CLASSIFICATION FOR SUPPLY****15. INSTRUCTIONS ON USE****16. INFORMATION IN BRAILLE**

Duloxetine Zentiva 60 mg

**17. UNIQUE IDENTIFIER – 2D BARCODE**

2D barcode carrying the unique identifier included.

**18. UNIQUE IDENTIFIER - HUMAN READABLE DATA**

PC  
SN

NN

**MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS**

**BLISTER**

**1. NAME OF THE MEDICINAL PRODUCT**

Duloxetine Zentiva 60 mg gastro-resistant hard capsules  
duloxetine

**2. NAME OF THE MARKETING AUTHORISATION HOLDER**

Zentiva logo

**3. EXPIRY DATE**

EXP

**4. BATCH NUMBER**

Lot

**5. OTHER**



**B. PACKAGE LEAFLET**

## Package leaflet: Information for the user

### Duloxetine Zentiva 30 mg gastro-resistant hard capsules Duloxetine Zentiva 60 mg gastro-resistant hard capsules

duloxetine

**Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.**

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any of the side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

#### **What is in this leaflet**

1. What Duloxetine Zentiva is and what it is used for
2. What you need to know before you take Duloxetine Zentiva
3. How to take Duloxetine Zentiva
4. Possible side effects
5. How to store Duloxetine Zentiva
6. Contents of the pack and other information

#### **1. What Duloxetine Zentiva is and what it is used for**

Duloxetine Zentiva contains the active substance duloxetine. Duloxetine Zentiva increases the levels of serotonin and noradrenaline in the nervous system.

Duloxetine Zentiva is used in adults to treat:

- depression;
- generalised anxiety disorder (chronic feeling of anxiety or nervousness);
- diabetic neuropathic pain (often described as burning, stabbing, stinging, shooting or aching or like an electric shock. There may be loss of feeling in the affected area, or sensations such as touch, heat, cold or pressure may cause pain).

Duloxetine Zentiva starts to work in most people with depression or anxiety within two weeks of starting treatment, but it may take 2-4 weeks before you feel better. Tell your doctor if you do not start to feel better after this time. Your doctor may continue to give you Duloxetine Zentiva when you are feeling better to prevent your depression or anxiety from returning.

In people with diabetic neuropathic pain it can take some weeks before you feel better. Talk to your doctor if you do not feel better after 2 months.

#### **2. What you need to know before you take Duloxetine Zentiva**

**Do not take Duloxetine Zentiva if you:**

- are allergic to duloxetine or any of the other ingredients of this medicine (listed in section 6);
- have liver disease;
- have severe kidney disease;
- are taking or have taken within the last 14 days, another medicine known as a monoamine oxidase inhibitor (MAOI) (see ‘Other medicines and Duloxetine Zentiva’);
- are taking fluvoxamine which is usually used to treat depression, ciprofloxacin or enoxacin which are used to treat some infections.

- are taking other medicines containing duloxetine (see ‘Other medicines and Duloxetine Zentiva’)

Talk to your doctor if you have high blood pressure or heart disease. Your doctor will tell you if you should be taking Duloxetine Zentiva.

### **Warnings and precautions**

The following are reasons why Duloxetine Zentiva may not be suitable for you. Talk to your doctor before taking Duloxetine Zentiva if you:

- are taking other medicines to treat depression (see ‘Other medicines and Duloxetine Zentiva’);
- are taking St. John’s Wort, a herbal treatment (*Hypericum perforatum*);
- have kidney disease;
- have had seizures (fits);
- have had mania;
- suffer from bipolar disorder;
- have eye problems, such as certain kinds of glaucoma (increased pressure in the eye);
- have a history of bleeding disorders (tendency to develop bruises), especially if you are pregnant (see ‘Pregnancy and breast-feeding’);
- are at risk of low sodium levels (for example if you are taking diuretics, especially if you are elderly);
- are currently being treated with another medicine which may cause liver damage;
- are taking any opioid medicines such as buprenorphine containing medicine, tramadol and pethidine. The use of these medicines together with Duloxetine Zentiva can lead to serotonin syndrome, a potentially life-threatening condition (see “Other medicines and Duloxetine Zentiva”);
- are taking other medicines containing duloxetine (see ‘Other medicines and Duloxetine Zentiva’).

Duloxetine Zentiva may cause a sensation of restlessness or an inability to sit or stand still. You should tell your doctor if this happens to you.

Medicines like Duloxetine Zentiva (so called SSRIs/SNRIs) may cause symptoms of sexual dysfunction (see section 4). In some cases, these symptoms have continued after stopping treatment.

### **Thoughts of suicide and worsening of your depression or anxiety disorder**

If you are depressed and/or have anxiety disorders you can sometimes have thoughts of harming or killing yourself. These may be increased when first starting antidepressants, since these medicines all take time to work, usually about two weeks but sometimes longer.

You may be more likely to think like this if you:

- have previously had thoughts about killing or harming yourself;
- are a young adult. Information from clinical trials has shown an increased risk of suicidal behaviour in adults aged less than 25 years with psychiatric conditions who were treated with an antidepressant.

**If you have thoughts of harming or killing yourself at any time, contact your doctor or go to a hospital straight away.**

You may find it helpful to tell a relative or close friend that you are depressed or have an anxiety disorder, and ask them to read this leaflet. You might ask them to tell you if they think your depression or anxiety is getting worse, or if they are worried about changes in your behaviour.

### **Children and adolescents under 18 years of age**

Duloxetine Zentiva should normally not be used for children and adolescents under 18 years. Also, you should know that patients under 18 have an increased risk of side-effects such as suicide attempt, suicidal thoughts and hostility (predominantly aggression, oppositional behaviour and anger) when they take this class of medicines. Despite this, your doctor may prescribe Duloxetine Zentiva for

patients under 18 because he/she decides that this is in their best interests. If your doctor has prescribed Duloxetine Zentiva for a patient under 18 and you want to discuss this, please go back to your doctor. You should inform your doctor if any of the symptoms listed above develop or worsen when patients under 18 are taking Duloxetine Zentiva. Also, the long-term safety effects concerning growth, maturation, and cognitive and behavioural development of duloxetine in this age group have not yet been demonstrated.

### **Other medicines and Duloxetine Zentiva**

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines.

The main ingredient of Duloxetine Zentiva, duloxetine, is used in other medicines for other conditions: diabetic neuropathic pain, depression, anxiety and urinary incontinence. Using more than one of these medicines at the same time should be avoided. Check with your doctor if you are already taking other medicines containing duloxetine.

Your doctor should decide whether you can take Duloxetine Zentiva with other medicines. **Do not start or stop taking any medicines, including those bought without a prescription and herbal remedies, before checking with your doctor.**

You should also tell your doctor if you are taking any of the following:

- **Monoamine oxidase inhibitors (MAOIs):** You should not take Duloxetine Zentiva if you are taking, or have recently taken (within the last 14 days) another antidepressant medicine called a monoamine oxidase inhibitor (MAOI). Examples of MAOIs include moclobemide (an antidepressant) and linezolid (an antibiotic). Taking a MAOI together with many prescription medicines, including Duloxetine Zentiva, can cause serious or even life-threatening side effects. You must wait at least 14 days after you have stopped taking an MAOI before you can take Duloxetine Zentiva. Also, you need to wait at least 5 days after you stop taking Duloxetine Zentiva before you take a MAOI.
- **Medicines that cause sleepiness:** These include medicines prescribed by your doctor including benzodiazepines, strong painkillers, antipsychotics, phenobarbital and antihistamines.
- **Medicines that increase the level of serotonin:** Triptans, tryptophan, SSRIs (such as paroxetine and fluoxetine), SNRIs (such as venlafaxine), tricyclic antidepressants (such as clomipramine, amitriptyline), St. John's Wort, MAOIs (such as moclobemide and linezolid) and opioid medicines such as buprenorphine containing medicine, tramadol and pethidine. These medicines increase the risk of side effects such as serotonin syndrome (see section "Warnings and precautions"). If you get any unusual symptom taking any of these medicines together with Duloxetine Zentiva, you should see your doctor.
- **Oral anticoagulants or antiplatelet agents:** Medicines which thin the blood or prevent the blood from clotting. These medicines might increase the risk of bleeding.

### **Duloxetine Zentiva with food, drink and alcohol**

Duloxetine Zentiva may be taken with or without food. Care should be taken if you drink alcohol while you are being treated with Duloxetine Zentiva.

### **Pregnancy and breast-feeding**

If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this medicine.

- Tell your doctor if you become pregnant, or you are trying to become pregnant, while you are taking Duloxetine Zentiva. You should use Duloxetine Zentiva only after discussing the potential benefits and any potential risks to your unborn child with your doctor.
- Make sure your midwife and/or doctor knows you are on Duloxetine Zentiva. When taken during pregnancy, similar drugs (SSRIs) may increase the risk of a serious condition in babies, called persistent pulmonary hypertension of the newborn (PPHN), making the baby breathe

faster and appear bluish. These symptoms usually begin during the first 24 hours after the baby is born. If this happens to your baby you should contact your midwife and/or doctor immediately.

- If you take Duloxetine Zentiva near the end of your pregnancy, your baby might have some symptoms when it is born. These usually begin at birth or within a few days of your baby being born. These symptoms may include floppy muscles, trembling, jitteriness, not feeding properly, trouble with breathing and fits. If your baby has any of these symptoms when it is born, or you are concerned about your baby's health, contact your doctor or midwife who will be able to advise you.
- If you take Duloxetine Zentiva near the end of your pregnancy there is an increased risk of excessive vaginal bleeding shortly after birth, especially if you have a history of bleeding disorders. Your doctor or midwife should be aware that you are taking duloxetine so they can advise you.
- Available data from the use of duloxetine during the first three months of pregnancy do not show an increased risk of overall birth defects in general in the child. If duloxetine is taken during the second half of pregnancy, there may be an increased risk that the infant will be born early (6 additional premature infants for every 100 women who take duloxetine in the second half of pregnancy), mostly between weeks 35 and 36 of pregnancy.
- Tell your doctor if you are breast-feeding. The use of Duloxetine Zentiva while breast-feeding is not recommended. You should ask your doctor or pharmacist for advice.

#### **Driving and using machines**

Duloxetine Zentiva may make you feel sleepy or dizzy. Do not drive or use any tools or machines until you know how Duloxetine Zentiva affects you.

#### **Duloxetine Zentiva contains sucrose**

If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before taking this medicinal product.

### **3. How to take Duloxetine Zentiva**

Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

Duloxetine Zentiva is for oral use. You should swallow your capsule whole with a drink of water.

#### **For depression and diabetic neuropathic pain:**

The usual dose of Duloxetine Zentiva is 60 mg once a day, but your doctor will prescribe the dose that is right for you.

#### **For generalised anxiety disorder:**

The usual starting dose of Duloxetine Zentiva is 30 mg once a day after which most patients will receive 60 mg once a day, but your doctor will prescribe the dose that is right for you. The dose may be adjusted up to 120 mg a day based on your response to Duloxetine Zentiva.

To help you remember to take Duloxetine Zentiva, you may find it easier to take it at the same times every day.

Talk with your doctor about how long you should keep taking Duloxetine Zentiva. Do not stop taking Duloxetine Zentiva, or change your dose, without talking to your doctor. Treating your disorder properly is important to help you get better. If it is not treated, your condition may not go away and may become more serious and difficult to treat.

**If you take more Duloxetine Zentiva than you should**

Call your doctor or pharmacist immediately if you take more than the amount of Duloxetine Zentiva prescribed by your doctor. Symptoms of overdose include sleepiness, coma, serotonin syndrome (a rare reaction which may cause feelings of great happiness, drowsiness, clumsiness, restlessness, feeling of being drunk, fever, sweating or rigid muscles), fits, vomiting and fast heart rate.

**If you forget to take Duloxetine Zentiva**

If you miss a dose, take it as soon as you remember. However, if it is time for your next dose, skip the missed dose and take only a single dose as usual. Do not take a double dose to make up for a forgotten dose. Do not take more than the daily amount of Duloxetine Zentiva that has been prescribed for you in one day.

**If you stop taking Duloxetine Zentiva**

DO NOT stop taking your capsules without the advice of your doctor even if you feel better. If your doctor thinks that you no longer need Duloxetine Zentiva he or she will ask you to reduce your dose over at least 2 weeks before stopping treatment altogether.

Some patients who stop taking Duloxetine Zentiva suddenly have had symptoms such as:

- dizziness, tingling, feelings like pins and needles or electric shock-like feelings (particularly in the head), sleep disturbances (vivid dreams, nightmares, inability to sleep), fatigue, sleepiness, feeling restless or agitated, feeling anxious, feeling sick (nausea) or being sick (vomiting), shaking (tremor), headaches, muscle pain, feeling irritable, diarrhoea, excessive sweating or vertigo.

These symptoms are usually not serious and disappear within a few days, but if you have symptoms that are troublesome you should ask your doctor for advice.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

**4. Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them. These effects are normally mild to moderate and often disappear after a few weeks.

**Very common side effects** (may affect more than 1 in 10 people):

- headache, feeling sleepy;
- feeling sick (nausea), dry mouth.

**Common side effects** (may affect up to 1 in 10 people):

- lack of appetite;
- trouble sleeping, feeling agitated, less sex drive, anxiety, difficulty or failure to experience orgasm, unusual dreams;
- dizziness, feeling sluggish, tremor, numbness, including numbness, pricking or tingling of the skin;
- blurred eyesight;
- tinnitus (hearing sound in the ear when there is no external sound);
- feeling the heart pumping in the chest;
- increased blood pressure, flushing;
- increased yawning;
- constipation, diarrhoea, stomach pain, being sick (vomiting), heartburn or indigestion, breaking wind;
- increased sweating, (itchy) rash;
- muscle pain, muscle spasm;
- painful urination, frequent urination;
- problems getting an erection, changes in ejaculation;

- falls (mostly in elderly people), fatigue;
- weight loss.

Children and adolescents under 18 years of age with depression treated with this medicine had some weight loss when they first start taking this medicine. Weight increased to match other children and adolescents of their age and sex after 6 months of treatment.

**Uncommon side effects** (may affect up to 1 in 100 people):

- throat inflammation that causes a hoarse voice;
- suicidal thoughts, difficulty sleeping, grinding or clenching the teeth, feeling disorientated, lack of motivation;
- sudden involuntary jerks or twitches of the muscles, sensation of restlessness or an inability to sit or stand still, feeling nervous, difficulty concentrating, changes in sense of taste, difficulty controlling movement e.g., lack of coordination or involuntary movements of the muscles, restless legs syndrome, poor sleep quality;
- large pupils (the dark centre of the eye), problems with eyesight;
- feeling of dizziness or “spinning” (vertigo), ear pain;
- fast and/or irregular heart beat;
- fainting, dizziness, light-headedness or fainting on standing up, cold fingers and/or toes;
- throat tightness, nose bleeds;
- vomiting blood, or black tarry stools (faeces), gastroenteritis, burping, difficulty swallowing;
- inflammation of the liver that may cause abdominal pain and yellowing of the skin or whites of the eyes;
- night sweats, hives, cold sweats, sensitivity to sunlight, increased tendency to bruise;
- muscle tightness, muscle twitching;
- difficulty or inability to pass urine, difficulty to start urinating, needing to pass urine during the night, needing to pass more urine than normal, having a decreased urine flow;
- abnormal vaginal bleeding, abnormal periods, including heavy, painful, irregular or prolonged periods, unusually light or missed periods, pain in the testicles or scrotum;
- chest pain, feeling cold, thirst, shivering, feeling hot, abnormal gait;
- weight gain;
- Duloxetine Zentiva may cause effects that you may not be aware of, such as increases in liver enzymes or blood levels of potassium, creatine phosphokinase, sugar, or cholesterol.

**Rare side effects** (may affect up to 1 in 1,000 people):

- serious allergic reaction which causes difficulty in breathing or dizziness with swollen tongue or lips, allergic reactions;
- decreased thyroid gland activity which can cause tiredness or weight gain;
- dehydration, low levels of sodium in the blood (mostly in elderly people; the symptoms may include feeling dizzy, weak, confused, sleepy or very tired, or feeling or being sick, more serious symptoms are fainting, fits or falls), syndrome of inappropriate secretion of anti-diuretic hormone (SIADH);
- suicidal behaviour, mania (over activity, racing thoughts and decreased need for sleep), hallucinations, aggression and anger;
- “Serotonin syndrome” (a rare reaction which may cause feelings of great happiness, drowsiness, clumsiness, restlessness, feeling of being drunk, fever, sweating or rigid muscles), fits;
- increased pressure in the eye (glaucoma);
- coughing, wheezing and shortness of breath which may be accompanied by a high temperature;
- inflammation of the mouth, passing bright red blood in your stools, bad breath, inflammation of the large intestine (leading to diarrhoea);
- liver failure, yellowing of the skin or whites of the eyes (jaundice);
- Stevens-Johnson syndrome (serious illness with blistering of the skin, mouth, eyes and genitals), serious allergic reaction which causes swelling of the face or throat (angioedema);
- contraction of the jaw muscle;
- abnormal urine odour;

- menopausal symptoms, abnormal production of breast milk in men or women;
- excessive vaginal bleeding shortly after birth (postpartum haemorrhage).

**Very rare side effects** (may affect up to 1 in 10,000 people):

- inflammation of the blood vessels in the skin (cutaneous vasculitis).

### **Reporting of side effects**

If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via [the national reporting system listed in Appendix V](#). By reporting side effects you can help provide more information on the safety of this medicine.

## **5. How to store Duloxetine Zentiva**

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the carton/blister after EXP. The expiry date refers to the last day of that month.

Store below 30 °C. Store in the original package in order to protect from moisture.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

## **6. Contents of the pack and other information**

### **What Duloxetine Zentiva contains**

The active substance is duloxetine. Each capsule contains duloxetine hydrochloride equivalent to 30 or 60 mg duloxetine.

The other ingredients are:

Capsule content: sucrose, maize starch, hypromellose, talc, hypromellose acetate succinate, triethyl citrate.

Capsule shell:

*Duloxetine Zentiva 30 mg:*

Capsule cap: Indigo carmine (E132), titanium dioxide (E171), gelatin

Capsule body: titanium dioxide (E171), gelatin

*Duloxetine Zentiva 60 mg:*

Capsule cap: Indigo carmine (E132), titanium dioxide (E171), gelatin

Capsule body: yellow iron oxide (E172), titanium dioxide (E171), gelatin

### **What Duloxetine Zentiva looks like and contents of the pack**

Duloxetine Zentiva is a gastro-resistant hard capsule. Each capsule of Duloxetine Zentiva contains pellets of duloxetine hydrochloride with a covering to protect them from stomach acid.

Duloxetine Zentiva is available in 2 strengths: 30 mg and 60 mg.

The 30 mg capsules are hard opaque gelatin capsules of length approx. 15.9 mm with white opaque body and light-blue opaque cap which contain off-white to light-brown-yellow spherical pellets.

The 60 mg capsules are hard opaque gelatin capsules of length approx. 19.4 mm with ivory opaque body and light-blue opaque cap which contain off-white to light-brown-yellow spherical pellets.

Duloxetine Zentiva 30 mg is available in packs of 7, 28, 56, 84 and 98 capsules.

Duloxetine Zentiva 60 mg is available in packs of 14, 28, 56, 84 and 98 capsules.



Not all pack sizes may be marketed.

**Marketing Authorisation Holder**

Zentiva, k.s.  
U Kabelovny 130  
102 37 Prague 10  
Czech Republic

**Manufacturer**

S.C. Zentiva S.A  
Theodor Pallady Nr 50  
032266 Bucharest  
Romania

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

**België/Belgique/Belgien**

Zentiva, k.s.  
Tél/Tel: +32 280 86 420  
PV-Belgium@zentiva.com

**България**

Zentiva, k.s.  
Тел: +35924417136  
PV-Bulgaria@zentiva.com

**Česká republika**

Zentiva, k.s.  
Tel: +420 267 241 111  
PV-Czech-Republic@zentiva.com

**Danmark**

Zentiva Denmark ApS  
Tlf: +45 787 68 400  
PV-Denmark@zentiva.com

**Deutschland**

Zentiva Pharma GmbH  
Tel: +49 (0) 800 53 53 010  
PV-Germany@zentiva.com

**Eesti**

Zentiva, k.s.  
Tel: +372 52 70308  
PV-Estonia@zentiva.com

**Ελλάδα**

Zentiva, k.s.  
Τηλ: +30 211 198 7510  
PV-Greece@zentiva.com

**España**

Zentiva, k.s.  
Tel: +34 931 815 250  
PV-Spain@zentiva.com

**France**

Zentiva France  
Tél: +33 (0) 800 089 219  
PV-France@zentiva.com

**Lietuva**

Zentiva, k.s.  
Tel: +370 52152025  
PV-Lithuania@zentiva.com

**Luxembourg/Luxemburg**

Zentiva, k.s.  
Tél/Tel: +352 208 82330  
PV-Luxembourg@zentiva.com

**Magyarország**

Zentiva Pharma Kft.  
Tel.: +36 1 299 1058  
PV-Hungary@zentiva.com

**Malta**

Zentiva, k.s.  
Tel: +356 2778 0890  
PV-Malta@zentiva.com

**Nederland**

Zentiva, k.s.  
Tel: +31 202 253 638  
PV-Netherlands@zentiva.com

**Norge**

Zentiva Denmark ApS  
Tlf: +47 219 66 203  
PV-Norway@zentiva.com

**Österreich**

Zentiva, k.s.  
Tel: +43 720 778 877  
PV-Austria@zentiva.com

**Polska**

Zentiva Polska Sp. z o.o.  
Tel: + 48 22 375 92 00  
PV-Poland@zentiva.com

**Portugal**

Zentiva Portugal, Lda  
Tel: +351210601360  
PV-Portugal@zentiva.com

**Hrvatska**

Zentiva d.o.o.  
Tel: +385 1 6641 830  
PV-Croatia@zentiva.com

**Ireland**

Zentiva, k.s.  
Tel: +353 818 882 243  
PV-Ireland@zentiva.com

**Ísland**

Zentiva Denmark ApS  
Sími: +354 539 0650  
PV-Iceland@zentiva.com

**Italia**

Zentiva Italia S.r.l.  
Tel: +39-02-38598801  
PV-Italy@zentiva.com

**Κύπρος**

Zentiva, k.s.  
Τηλ: +357 240 30 144  
PV-Cyprus@zentiva.com

**Latvija**

Zentiva, k.s.  
Tel: +371 67893939  
PV-Latvia@zentiva.com

**România**

ZENTIVA S.A.  
Tel: +4 021.304.7597  
PV-Romania@zentiva.com

**Slovenija**

Zentiva, k.s.  
Tel: +386 360 00 408  
PV-Slovenia@zentiva.com

**Slovenská republika**

Zentiva, a.s.  
Tel: +421 2 3918 3010  
PV-Slovakia@zentiva.com

**Suomi/Finland**

Zentiva Denmark ApS  
Puh/Tel: +358 942 598 648  
PV-Finland@zentiva.com

**Sverige**

Zentiva Denmark ApS  
Tel: +46 840 838 822  
PV-Sweden@zentiva.com

**United Kingdom (Northern Ireland)**

Zentiva, k.s.  
Tel: +44 (0) 800 090 2408  
PV-United-Kingdom@zentiva.com

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Detailed information on this medicine is available on the European Medicines Agency web site:  
<http://www.ema.europa.eu>.