1. **NAME OF THE MEDICINAL PRODUCT**

   ZYPREXA 2.5 mg coated tablets  
   ZYPREXA 5 mg coated tablets  
   ZYPREXA 7.5 mg coated tablets  
   ZYPREXA 10 mg coated tablets  
   ZYPREXA 15 mg coated tablets  
   ZYPREXA 20 mg coated tablets

2. **QUALITATIVE AND QUANTITATIVE COMPOSITION**

   **ZYPREXA 2.5 mg coated tablets**
   Each coated tablet contains 2.5 mg olanzapine.

   Excipient with known effect: Each coated tablet contains 102 mg lactose monohydrate.

   **ZYPREXA 5 mg coated tablets**
   Each coated tablet contains 5 mg olanzapine.

   Excipient with known effect: Each coated tablet contains 156 mg lactose monohydrate.

   **ZYPREXA 7.5 mg coated tablets**
   Each coated tablet contains 7.5 mg olanzapine.

   Excipient with known effect: Each coated tablet contains 234 mg lactose monohydrate.

   **ZYPREXA 10 mg coated tablets**
   Each coated tablet contains 10 mg olanzapine.

   Excipient with known effect: Each coated tablet contains 312 mg lactose monohydrate.

   **ZYPREXA 15 mg coated tablets**
   Each coated tablet contains 15 mg olanzapine.

   Excipient with known effect: Each coated tablet contains 178 mg lactose monohydrate.

   **ZYPREXA 20 mg coated tablets**
   Each coated tablet contains 20 mg olanzapine.

   Excipient with known effect: Each coated tablet contains 238 mg lactose monohydrate.

   For the full list of excipients, see section 6.1.

3. **PHARMACEUTICAL FORM**

   Coated tablet

   **ZYPREXA 2.5 mg coated tablets**
   Round, white, coated tablets imprinted with “LILLY” and a numeric identicode “4112”.

   **ZYPREXA 5 mg coated tablets**
   Round, white, coated tablets imprinted with “LILLY” and a numeric identicode “4115”.

   **ZYPREXA 7.5 mg coated tablets**
   Round, white, coated tablets imprinted with “LILLY” and a numeric identicode “4116”.
ZYPREXA 10 mg coated tablets
Round, white, coated tablets imprinted with “LILLY” and a numeric identicode “4117”.

ZYPREXA 15 mg coated tablets
Elliptical, blue, coated tablets debossed with “LILLY” and a numeric identicode “4415”.

ZYPREXA 20 mg coated tablets
Pink, elliptical, coated tablets debossed with “LILLY” and a numeric identicode, “4420”.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Adults
Olanzapine is indicated for the treatment of schizophrenia.

Olanzapine is effective in maintaining the clinical improvement during continuation therapy in patients who have shown an initial treatment response.

Olanzapine is indicated for the treatment of moderate to severe manic episode.

In patients whose manic episode has responded to olanzapine treatment, olanzapine is indicated for the prevention of recurrence in patients with bipolar disorder (see section 5.1).

4.2 Posology and method of administration

Adults
Schizophrenia: The recommended starting dose for olanzapine is 10 mg/day.

Manic episode: The starting dose is 15 mg as a single daily dose in monotherapy or 10 mg daily in combination therapy (see section 5.1).

Preventing recurrence in bipolar disorder: The recommended starting dose is 10 mg/day. For patients who have been receiving olanzapine for treatment of manic episode, continue therapy for preventing recurrence at the same dose. If a new manic, mixed, or depressive episode occurs, olanzapine treatment should be continued (with dose optimisation as needed), with supplementary therapy to treat mood symptoms, as clinically indicated.

During treatment for schizophrenia, manic episode and recurrence prevention in bipolar disorder, daily dosage may subsequently be adjusted on the basis of individual clinical status within the range 5-20 mg/day. An increase to a dose greater than the recommended starting dose is advised only after appropriate clinical reassessment and should generally occur at intervals of not less than 24 hours. Olanzapine can be given without regards for meals as absorption is not affected by food. Gradual tapering of the dose should be considered when discontinuing olanzapine.

Special populations

Elderly
A lower starting dose (5 mg/day) is not routinely indicated but should be considered for those 65 and over when clinical factors warrant (see section 4.4).

Renal and/or hepatic impairment
A lower starting dose (5 mg) should be considered for such patients. In cases of moderate hepatic insufficiency (cirrhosis, Child-Pugh Class A or B), the starting dose should be 5 mg and only increased with caution.
Smokers
The starting dose and dose range need not be routinely altered for non-smokers relative to smokers. The metabolism of olanzapine may be induced by smoking. Clinical monitoring is recommended and an increase of olanzapine dose may be considered if necessary (see section 4.5).

When more than one factor is present which might result in slower metabolism (female gender, geriatric age, non-smoking status), consideration should be given to decreasing the starting dose. Dose escalation, when indicated, should be conservative in such patients.

(See sections 4.5 and 5.2)

Paediatric population
Olanzapine is not recommended for use in children and adolescents below 18 years of age due to a lack of data on safety and efficacy. A greater magnitude of weight gain, lipid and prolactin alterations has been reported in short term studies of adolescent patients than in studies of adult patients (see sections 4.4, 4.8, 5.1 and 5.2).

4.3 Contraindications
Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.
Patients with known risk of narrow-angle glaucoma.

4.4 Special warnings and precautions for use
During antipsychotic treatment, improvement in the patient's clinical condition may take several days to some weeks. Patients should be closely monitored during this period.

Dementia-related psychosis and/or behavioural disturbances
Olanzapine is not recommended for use in patients with dementia-related psychosis and/or behavioural disturbances because of an increase in mortality and the risk of cerebrovascular accident. In placebo-controlled clinical trials (6-12 weeks duration) of elderly patients (mean age 78 years) with dementia-related psychosis and/or disturbed behaviours, there was a 2-fold increase in the incidence of death in olanzapine-treated patients compared to patients treated with placebo (3.5 % vs. 1.5 %, respectively). The higher incidence of death was not associated with olanzapine dose (mean daily dose 4.4 mg) or duration of treatment. Risk factors that may predispose this patient population to increased mortality include age > 65 years, dysphagia, sedation, malnutrition and dehydration, pulmonary conditions (e.g., pneumonia, with or without aspiration), or concomitant use of benzodiazepines. However, the incidence of death was higher in olanzapine-treated than in placebo-treated patients independent of these risk factors.

In the same clinical trials, cerebrovascular adverse events (CVAE e.g., stroke, transient ischemic attack), including fatalities, were reported. There was a 3-fold increase in CVAE in patients treated with olanzapine compared to patients treated with placebo (1.3 % vs. 0.4 %, respectively). All olanzapine- and placebo-treated patients who experienced a cerebrovascular event had pre-existing risk factors. Age > 75 years and vascular/mixed type dementia were identified as risk factors for CVAE in association with olanzapine treatment. The efficacy of olanzapine was not established in these trials.

Parkinson's disease
The use of olanzapine in the treatment of dopamine agonist associated psychosis in patients with Parkinson's disease is not recommended. In clinical trials, worsening of Parkinsonian symptomatology and hallucinations were reported very commonly and more frequently than with placebo (see section 4.8), and olanzapine was not more effective than placebo in the treatment of psychotic symptoms. In these trials, patients were initially required to be stable on the lowest effective dose of anti-Parkinsonian medicinal products (dopamine agonist) and to remain on the same anti-Parkinsonian
medicinal products and dosages throughout the study. Olanzapine was started at 2.5 mg/day and titrated to a maximum of 15 mg/day based on investigator judgement.

**Neuroleptic Malignant Syndrome (NMS)**

NMS is a potentially life-threatening condition associated with antipsychotic medicinal products. Rare cases reported as NMS have also been received in association with olanzapine. Clinical manifestations of NMS are hyperpyrexia, muscle rigidity, altered mental status, and evidence of autonomic instability (irregular pulse or blood pressure, tachycardia, diaphoresis, and cardiac dysrhythmia). Additional signs may include elevated creatine phosphokinase, myoglobinuria (rhabdomyolysis), and acute renal failure. If a patient develops signs and symptoms indicative of NMS, or presents with unexplained high fever without additional clinical manifestations of NMS, all antipsychotic medicines, including olanzapine must be discontinued.

**Hyperglycaemia and diabetes**

Hyperglycaemia and/or development or exacerbation of diabetes occasionally associated with ketoacidosis or coma has been reported uncommonly, including some fatal cases (see section 4.8). In some cases, a prior increase in body weight has been reported which may be a predisposing factor. Appropriate clinical monitoring is advisable in accordance with utilised antipsychotic guidelines, e.g. measuring of blood glucose at baseline, 12 weeks after starting olanzapine treatment and annually thereafter. Patients treated with any antipsychotic medicines, including ZYPREXA, should be observed for signs and symptoms of hyperglycaemia (such as polydipsia, polyuria, polyphagia, and weakness) and patients with diabetes mellitus or with risk factors for diabetes mellitus should be monitored regularly for worsening of glucose control. Weight should be monitored regularly, e.g. at baseline, 4, 8 and 12 weeks after starting olanzapine treatment and quarterly thereafter.

**Lipid alterations**

Undesirable alterations in lipids have been observed in olanzapine-treated patients in placebo-controlled clinical trials (see section 4.8). Lipid alterations should be managed as clinically appropriate, particularly in dyslipidemic patients and in patients with risk factors for the development of lipids disorders. Patients treated with any antipsychotic medicines, including ZYPREXA, should be monitored regularly for lipids in accordance with utilised antipsychotic guidelines, e.g. at baseline, 12 weeks after starting olanzapine treatment and every 5 years thereafter.

**Anticholinergic activity**

While olanzapine demonstrated anticholinergic activity *in vitro*, experience during the clinical trials revealed a low incidence of related events. However, as clinical experience with olanzapine in patients with concomitant illness is limited, caution is advised when prescribing for patients with prostatic hypertrophy, or paralytic ileus and related conditions.

**Hepatic function**

Transient, asymptomatic elevations of hepatic aminotransferases, ALT, AST have been seen commonly, especially in early treatment. Caution should be exercised and follow-up organised in patients with elevated ALT and/or AST, in patients with signs and symptoms of hepatic impairment, in patients with pre-existing conditions associated with limited hepatic functional reserve, and in patients who are being treated with potentially hepatotoxic medicines. In cases where hepatitis (including hepatocellular, cholestatic or mixed liver injury) has been diagnosed, olanzapine treatment should be discontinued.

**Neutropenia**

Caution should be exercised in patients with low leukocyte and/or neutrophil counts for any reason, in patients receiving medicines known to cause neutropenia, in patients with a history of drug-induced bone marrow depression/toxicity, in patients with bone marrow depression caused by concomitant illness, radiation therapy or chemotherapy and in patients with hypereosinophilic conditions or with myeloproliferative disease. Neutropenia has been reported commonly when olanzapine and valproate are used concomitantly (see section 4.8).
Discontinuation of treatment
Acute symptoms such as sweating, insomnia, tremor, anxiety, nausea, or vomiting have been reported rarely (≥ 0.01 % and < 0.1 %) when olanzapine is stopped abruptly.

QT interval
In clinical trials, clinically meaningful QTc prolongations (Fridericia QT correction [QTcF] ≥ 500 milliseconds [msec] at any time post baseline in patients with baseline QTcF < 500 msec) were uncommon (0.1 % to 1 %) in patients treated with olanzapine, with no significant differences in associated cardiac events compared to placebo. However, caution should be exercised when olanzapine is prescribed with medicines known to increase QTc interval, especially in the elderly, in patients with congenital long QT syndrome, congestive heart failure, heart hypertrophy, hypokalaemia or hypomagnesaemia.

Thromboembolism
Temporal association of olanzapine treatment and venous thromboembolism has been reported uncommonly (≥ 0.1 % and < 1 %). A causal relationship between the occurrence of venous thromboembolism and treatment with olanzapine has not been established. However, since patients with schizophrenia often present with acquired risk factors for venous thromboembolism all possible risk factors of VTE e.g. immobilisation of patients, should be identified and preventive measures undertaken.

General CNS activity
Given the primary CNS effects of olanzapine, caution should be used when it is taken in combination with other centrally acting medicines and alcohol. As it exhibits in vitro dopamine antagonism, olanzapine may antagonize the effects of direct and indirect dopamine agonists.

Seizures
Olanzapine should be used cautiously in patients who have a history of seizures or are subject to factors which may lower the seizure threshold. Seizures have been reported to occur uncommonly in patients when treated with olanzapine. In most of these cases, a history of seizures or risk factors for seizures were reported.

Tardive Dyskinesia
In comparator studies of one year or less duration, olanzapine was associated with a statistically significant lower incidence of treatment emergent dyskinesia. However the risk of tardive dyskinesia increases with long term exposure, and therefore if signs or symptoms of tardive dyskinesia appear in a patient on olanzapine, a dose reduction or discontinuation should be considered. These symptoms can temporally deteriorate or even arise after discontinuation of treatment.

Postural hypotension
Postural hypotension was infrequently observed in the elderly in olanzapine clinical trials. It is recommended that blood pressure is measured periodically in patients over 65 years.

Sudden cardiac death
In postmarketing reports with olanzapine, the event of sudden cardiac death has been reported in patients with olanzapine. In a retrospective observational cohort study, the risk of presumed sudden cardiac death in patients treated with olanzapine was approximately twice the risk in patients not using antipsychotics. In the study, the risk of olanzapine was comparable to the risk of atypical antipsychotics included in a pooled analysis.

Paediatric population
Olanzapine is not indicated for use in the treatment of children and adolescents. Studies in patients aged 13-17 years showed various adverse reactions, including weight gain, changes in metabolic parameters and increases in prolactin levels (see sections 4.8 and 5.1).
Lactose
ZYPREXA tablets contain lactose. Patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose malabsorption should not take this medicine.

4.5 Interaction with other medicinal products and other forms of interaction

Interaction studies have only been performed in adults.

Potential interactions affecting olanzapine
Since olanzapine is metabolised by CYP1A2, substances that can specifically induce or inhibit this isoenzyme may affect the pharmacokinetics of olanzapine.

Induction of CYP1A2
The metabolism of olanzapine may be induced by smoking and carbamazepine, which may lead to reduced olanzapine concentrations. Only slight to moderate increase in olanzapine clearance has been observed. The clinical consequences are likely to be limited, but clinical monitoring is recommended and an increase of olanzapine dose may be considered if necessary (see section 4.2).

Inhibition of CYP1A2
Fluvoxamine, a specific CYP1A2 inhibitor, has been shown to significantly inhibit the metabolism of olanzapine. The mean increase in olanzapine C\text{max} following fluvoxamine was 54 % in female non-smokers and 77 % in male smokers. The mean increase in olanzapine AUC was 52 % and 108 % respectively. A lower starting dose of olanzapine should be considered in patients who are using fluvoxamine or any other CYP1A2 inhibitors, such as ciprofloxacin. A decrease in the dose of olanzapine should be considered if treatment with an inhibitor of CYP1A2 is initiated.

Decreased bioavailability
Activated charcoal reduces the bioavailability of oral olanzapine by 50 to 60 % and should be taken at least 2 hours before or after olanzapine.

Fluoxetine (a CYP2D6 inhibitor), single doses of antacid (aluminium, magnesium) or cimetidine have not been found to significantly affect the pharmacokinetics of olanzapine.

Potential for olanzapine to affect other medicinal products
Olanzapine may antagonise the effects of direct and indirect dopamine agonists.

Olanzapine does not inhibit the main CYP450 isoenzymes \textit{in vitro} (e.g. 1A2, 2D6, 2C9, 2C19, 3A4). Thus no particular interaction is expected as verified through \textit{in vivo} studies where no inhibition of metabolism of the following active substances was found: tricyclic antidepressant (representing mostly CYP2D6 pathway), warfarin (CYP2C9), theophylline (CYP1A2) or diazepam (CYP3A4 and 2C19).

Olanzapine showed no interaction when co-administered with lithium or biperiden.

Therapeutic monitoring of valproate plasma levels did not indicate that valproate dosage adjustment is required after the introduction of concomitant olanzapine.

General CNS activity
Caution should be exercised in patients who consume alcohol or receive medicinal products that can cause central nervous system depression.

The concomitant use of olanzapine with anti-Parkinsonian medicinal products in patients with Parkinson's disease and dementia is not recommended (see section 4.4).

QTc interval
Caution should be used if olanzapine is being administered concomitantly with medicinal products known to increase QTc interval (see section 4.4).
4.6 Fertility, pregnancy and lactation

**Pregnancy**
There are no adequate and well-controlled studies in pregnant women. Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during treatment with olanzapine. Nevertheless, because human experience is limited, olanzapine should be used in pregnancy only if the potential benefit justifies the potential risk to the foetus.

New born infants exposed to antipsychotics (including olanzapine) during the third trimester of pregnancy are at risk of adverse reactions including extrapyramidal and/or withdrawal symptoms that may vary in severity and duration following delivery. There have been reports of agitation, hypertonia, hypotonia, tremor, somnolence, respiratory distress, or feeding disorder. Consequently, newborns should be monitored carefully.

**Breast-feeding**
In a study in breast-feeding, healthy women, olanzapine was excreted in breast milk. Mean infant exposure (mg/kg) at steady state was estimated to be 1.8 % of the maternal olanzapine dose (mg/kg). Patients should be advised not to breast feed an infant if they are taking olanzapine.

**Fertility**
Effects on fertility are unknown (see section 5.3 for preclinical information).

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. Because olanzapine may cause somnolence and dizziness, patients should be cautioned about operating machinery, including motor vehicles.

4.8 Undesirable effects

**Summary of the safety profile**

**Adults**
The most frequently (seen in ≥ 1 % of patients) reported adverse reactions associated with the use of olanzapine in clinical trials were somnolence, weight gain, eosinophilia, elevated prolactin, cholesterol, glucose and triglyceride levels (see section 4.4), glucosuria, increased appetite, dizziness, akathisia, parkinsonism, leukopenia, neutropenia (see section 4.4), dyskinesia, orthostatic hypotension, anticholinergic effects, transient asymptomatic elevations of hepatic aminotransferases (see section 4.4), rash, asthenia, fatigue, pyrexia, arthralgia, increased alkaline phosphatase, high gamma glutamyltransferase, high uric acid, high creatine phosphokinase and oedema.

**Tabulated list of adverse reactions**
The following table lists the adverse reactions and laboratory investigations observed from spontaneous reporting and in clinical trials. Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness. The frequency terms listed are defined as follows: Very common (≥ 1/10), common (≥ 1/100 to < 1/10), uncommon (≥ 1/1,000 to < 1/100), rare (≥ 1/10,000 to < 1/1,000), very rare (< 1/10,000), not known (cannot be estimated from the data available).

<table>
<thead>
<tr>
<th>Very common</th>
<th>Common</th>
<th>Uncommon</th>
<th>Rare</th>
<th>Not known</th>
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<tbody>
<tr>
<td><strong>Blood and the lymphatic system disorders</strong></td>
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<tr>
<td>Eosinophilia</td>
<td>Leukopenia&lt;sup&gt;10&lt;/sup&gt;</td>
<td>Neutropenia&lt;sup&gt;10&lt;/sup&gt;</td>
<td></td>
<td>Thrombocytopenia&lt;sup&gt;11&lt;/sup&gt;</td>
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<tr>
<td><strong>Immune system disorders</strong></td>
<td></td>
<td></td>
<td></td>
<td>Hypersensitivity&lt;sup&gt;11&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>Metabolism and nutrition disorders</strong></td>
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<tr>
<td>Weight gain</td>
<td>Elevated cholesterol levels(^1),(^2),(^3) Elevated glucose levels(^4) Elevated triglyceride levels(^2),(^5) Glucosuria Increased appetite</td>
<td>Development or exacerbation of diabetes occasionally associated with ketoacidosis or coma, including some fatal cases (see section 4.4)(^1)</td>
<td>Hypothermia(^1)</td>
<td></td>
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**Nervous system disorders**

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<tr>
<th>Somnolence</th>
<th>Dizziness Akathisia(^6) Parkinsonism(^6) Dyskinesia(^6)</th>
<th>Seizures where in most cases a history of seizures or risk factors for seizures were reported(^1) Dystonia (including oculogyration)(^1) Tardive dyskinesia(^1) Amnesia(^9) Dysarthria Restless Legs Syndrome</th>
<th>Neuroleptic malignant syndrome (see section 4.4)(^1),(^2) Discontinuation symptoms(^1),(^2)</th>
</tr>
</thead>
</table>

**Cardiac disorders**

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<thead>
<tr>
<th></th>
<th>Bradycardia QT(_c) prolongation (see section 4.4)</th>
<th>Ventricular tachycardia/fibrillation, sudden death (see section 4.4)(^1)</th>
</tr>
</thead>
</table>

**Vascular disorders**

<table>
<thead>
<tr>
<th>Orthostatic hypotension(^1)</th>
<th>Thromboembolism (including pulmonary embolism and deep vein thrombosis) (see section 4.4)</th>
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</table>

**Respiratory, thoracic and mediastinal disorders**

<table>
<thead>
<tr>
<th></th>
<th>Epistaxis(^9)</th>
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**Gastrointestinal disorders**

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<thead>
<tr>
<th></th>
<th>Mild, transient anticholinergic effects including constipation and dry mouth Abdominal distension(^9)</th>
<th>Pancreatitis(^1)</th>
</tr>
</thead>
</table>

**Hepatobiliary disorders**

<table>
<thead>
<tr>
<th></th>
<th>Transient, asymptomatic elevations of hepatic aminotransferases (ALT, AST), especially in early treatment (see section 4.4)</th>
<th>Hepatitis (including hepatocellular, cholestatic or mixed liver injury)(^1)</th>
</tr>
</thead>
</table>

**Skin and subcutaneous tissue disorders**

<table>
<thead>
<tr>
<th></th>
<th>Rash Photosensitivity reaction</th>
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<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)</td>
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<td>-----------------------------------------------</td>
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<tr>
<td>Arthralgia</td>
<td>Rhabdomyolysis</td>
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<th>Renal and urinary disorders</th>
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<tr>
<td>Urinary incontinence, urinary retention</td>
<td>Drug withdrawal syndrome neonatal (see section 4.6)</td>
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<tr>
<td>Urinary hesituation</td>
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<tr>
<th>Pregnancy, puerperium and perinatal conditions</th>
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<tr>
<td>Drug withdrawal syndrome</td>
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<tr>
<th>Reproductive system and breast disorders</th>
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<tr>
<td>Erectile dysfunction in males</td>
<td>Amenorrhea</td>
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<tr>
<td>Decreased libido in males and females</td>
<td>Breast enlargement</td>
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<tr>
<td></td>
<td>Galactorrhea in females</td>
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<tr>
<td></td>
<td>Gynaecomastia/breast enlargement in males</td>
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<td></td>
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<tr>
<td>Priapism</td>
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<th>General disorders and administration site conditions</th>
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<tr>
<td>Asthenia</td>
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<tr>
<td>Fatigue</td>
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<td>Oedema</td>
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<td>Pyrexia</td>
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<tr>
<th>Investigations</th>
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<tbody>
<tr>
<td>Elevated plasma prolactin levels</td>
<td>Increased alkaline phosphatase</td>
</tr>
<tr>
<td></td>
<td>High creatine phosphokinase</td>
</tr>
<tr>
<td></td>
<td>High Gamma Glutamyltransferase</td>
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<td></td>
<td>High uric acid</td>
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<tr>
<td></td>
<td>Increased total bilirubin</td>
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1 Clinically significant weight gain was observed across all baseline Body Mass Index (BMI) categories. Following short term treatment (median duration 47 days), weight gain ≥ 7% of baseline body weight was very common (22.2%), ≥ 15% was common (4.2%) and ≥ 25% was uncommon (0.8%). Patients gaining ≥ 7%, ≥ 15% and ≥ 25% of their baseline body weight with long-term exposure (at least 48 weeks) were very common (64.4%, 31.7% and 12.3% respectively).

2 Mean increases in fasting lipid values (total cholesterol, LDL cholesterol, and triglycerides) were greater in patients without evidence of lipid dysregulation at baseline.

3 Observed for fasting normal levels at baseline (< 5.17 mmol/l) which increased to high (≥ 6.2 mmol/l). Changes in total fasting cholesterol levels from borderline at baseline (≥ 5.17 - < 6.2 mmol/l) to high (≥ 6.2 mmol/l) were very common.

4 Observed for fasting normal levels at baseline (< 5.56 mmol/l) which increased to high (≥ 7 mmol/l). Changes in fasting glucose from borderline at baseline (≥ 5.56 - < 7 mmol/l) to high (≥ 7 mmol/l) were very common.
Observed for fasting normal levels at baseline (< 1.69 mmol/l) which increased to high (≥ 2.26 mmol/l). Changes in fasting triglycerides from borderline at baseline (≥ 1.69 mmol/l - < 2.26 mmol/l) to high (≥ 2.26 mmol/l) were very common.

In clinical trials, the incidence of Parkinsonism and dystonia in olanzapine-treated patients was numerically higher, but not statistically significantly different from placebo. Olanzapine-treated patients had a lower incidence of Parkinsonism, akathisia and dystonia compared with titrated doses of haloperidol. In the absence of detailed information on the pre-existing history of individual acute and tardive extrapyramidal movement disorders, it cannot be concluded at present that olanzapine produces less tardive dyskinesia and/or other tardive extrapyramidal syndromes.

Acute symptoms such as sweating, insomnia, tremor, anxiety, nausea and vomiting have been reported when olanzapine is stopped abruptly.

In clinical trials of up to 12 weeks, plasma prolactin concentrations exceeded the upper limit of normal range in approximately 30 % of olanzapine treated patients with normal baseline prolactin value. In the majority of these patients the elevations were generally mild, and remained below two times the upper limit of normal range.

Adverse event identified from clinical trials in the Olanzapine Integrated Database.

As assessed by measured values from clinical trials in the Olanzapine Integrated Database.

Adverse event identified from spontaneous post-marketing reporting with frequency determined utilising the Olanzapine Integrated Database.

Adverse event identified from spontaneous post-marketing reporting with frequency estimated at the upper limit of the 95 % confidence interval utilising the Olanzapine Integrated Database.

Long-term exposure (at least 48 weeks)
The proportion of patients who had adverse, clinically significant changes in weight gain, glucose, total/LDL/HDL cholesterol or triglycerides increased over time. In adult patients who completed 9-12 months of therapy, the rate of increase in mean blood glucose slowed after approximately 6 months.

Additional information on special populations
In clinical trials in elderly patients with dementia, olanzapine treatment was associated with a higher incidence of death and cerebrovascular adverse reactions compared to placebo (see section 4.4). Very common adverse reactions associated with the use of olanzapine in this patient group were abnormal gait and falls. Pneumonia, increased body temperature, lethargy, erythema, visual hallucinations and urinary incontinence were observed commonly.

In clinical trials in patients with drug-induced (dopamine agonist) psychosis associated with Parkinson’s disease, worsening of Parkinsonian symptomatology and hallucinations were reported very commonly and more frequently than with placebo.

In one clinical trial in patients with bipolar mania, valproate combination therapy with olanzapine resulted in an incidence of neutropenia of 4.1 %; a potential contributing factor could be high plasma valproate levels. Olanzapine administered with lithium or valproate resulted in increased levels (≥ 10 %) of tremor, dry mouth, increased appetite, and weight gain. Speech disorder was also reported commonly. During treatment with olanzapine in combination with lithium or divalproex, an increase of ≥ 7 % from baseline body weight occurred in 17.4 % of patients during acute treatment (up to 6 weeks). Long-term olanzapine treatment (up to 12 months) for recurrence prevention in patients with bipolar disorder was associated with an increase of ≥ 7 % from baseline body weight in 39.9 % of patients.
Paediatric population
Olanzapine is not indicated for the treatment of children and adolescent patients below 18 years. Although no clinical studies designed to compare adolescents to adults have been conducted, data from the adolescent trials were compared to those of the adult trials.

The following table summarises the adverse reactions reported with a greater frequency in adolescent patients (aged 13-17 years) than in adult patients or adverse reactions only identified during short-term clinical trials in adolescent patients. Clinically significant weight gain ($\geq 7\%$) appears to occur more frequently in the adolescent population compared to adults with comparable exposures. The magnitude of weight gain and the proportion of adolescent patients who had clinically significant weight gain were greater with long-term exposure (at least 24 weeks) than with short-term exposure.

Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness. The frequency terms listed are defined as follows: Very common ($\geq 1/10$), common ($\geq 1/100$ to $< 1/10$).

<table>
<thead>
<tr>
<th>Metabolism and nutrition disorders</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Very common:</strong> Weight gain$^{13}$, elevated triglyceride levels$^{14}$, increased appetite.</td>
</tr>
<tr>
<td><strong>Common:</strong> Elevated cholesterol levels$^{15}$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nervous system disorders</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Very common:</strong> Sedation (including: hypersomnia, lethargy, somnolence).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gastrointestinal disorders</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Common:</strong> Dry mouth</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hepatobiliary disorders</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Very common:</strong> Elevations of hepatic aminotransferases (ALT/AST; see section 4.4).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Investigations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Very common:</strong> Decreased total bilirubin, increased GGT, elevated plasma prolactin levels$^{16}$.</td>
</tr>
</tbody>
</table>

$^{13}$ Following short term treatment (median duration 22 days), weight gain $\geq 7\%$ of baseline body weight (kg) was very common (40.6%), $\geq 15\%$ of baseline body weight was common (7.1%) and $\geq 25\%$ was common (2.5%). With long-term exposure (at least 24 weeks), 89.4% gained $\geq 7\%$, 55.3% gained $\geq 15\%$ and 29.1% gained $\geq 25\%$ of their baseline body weight.

$^{14}$ Observed for fasting normal levels at baseline (< 1.016 mmol/l) which increased to high ($\geq 1.467$ mmol/l) and changes in fasting triglycerides from borderline at baseline ($\geq 1.016$ mmol/l - < 1.467 mmol/l) to high ($\geq 1.467$ mmol/l).

$^{15}$ Changes in total fasting cholesterol levels from normal at baseline (< 4.39 mmol/l) to high ($\geq 5.17$ mmol/l) were observed commonly. Changes in total fasting cholesterol levels from borderline at baseline ($\geq 4.39$ - < 5.17 mmol/l) to high ($\geq 5.17$ mmol/l) were very common.

$^{16}$ Elevated plasma prolactin levels were reported in 47.4% of adolescent patients.

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

Signs and symptoms
Very common symptoms in overdose (> 10% incidence) include tachycardia, agitation/aggressiveness, dysarthria, various extrapyramidal symptoms, and reduced level of consciousness ranging from sedation to coma.
Other medically significant sequelae of overdose include delirium, convulsion, coma, possible neuroleptic malignant syndrome, respiratory depression, aspiration, hypertension or hypotension, cardiac arrhythmias (< 2% of overdose cases) and cardiopulmonary arrest. Fatal outcomes have been reported for acute overdoses as low as 450 mg but survival has also been reported following acute overdose of approximately 2 g of oral olanzapine.

**Management**

There is no specific antidote for olanzapine. Induction of emesis is not recommended. Standard procedures for management of overdose may be indicated (i.e. gastric lavage, administration of activated charcoal). The concomitant administration of activated charcoal was shown to reduce the oral bioavailability of olanzapine by 50 to 60%.

Symptomatic treatment and monitoring of vital organ function should be instituted according to clinical presentation, including treatment of hypotension and circulatory collapse and support of respiratory function. Do not use epinephrine, dopamine, or other sympathomimetic agents with beta-agonist activity since beta stimulation may worsen hypotension. Cardiovascular monitoring is necessary to detect possible arrhythmias. Close medical supervision and monitoring should continue until the patient recovers.

### 5. PHARMACOLOGICAL PROPERTIES

#### 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: psycholeptics, diazepines, oxazepines, thiazepines and oxepines, ATC code N05A H03.

**Pharmacodynamic effects**

Olanzapine is an antipsychotic, antimanic and mood stabilising agent that demonstrates a broad pharmacologic profile across a number of receptor systems.

In preclinical studies, olanzapine exhibited a range of receptor affinities (K<sub>i</sub> < 100 nM) for serotonin 5 HT<sub>2A/2C</sub>, 5 HT<sub>3</sub>, 5 HT<sub>6</sub>; dopamine D<sub>1</sub>, D<sub>2</sub>, D<sub>3</sub>, D<sub>4</sub>, D<sub>5</sub>; cholinergic muscarinic receptors M<sub>1</sub>-M<sub>5</sub>; α<sub>1</sub> adrenergic; and histamine H<sub>1</sub> receptors. Animal behavioural studies with olanzapine indicated 5HT, dopamine, and cholinergic antagonism, consistent with the receptor-binding profile. Olanzapine demonstrated a greater in vitro affinity for serotonin 5HT<sub>2</sub> than dopamine D<sub>2</sub> receptors and greater 5 HT<sub>2</sub> than D<sub>2</sub> activity in vivo models. Electrophysiological studies demonstrated that olanzapine selectively reduced the firing of mesolimbic (A10) dopaminergic neurons, while having little effect on the striatal (A9) pathways involved in motor function. Olanzapine reduced a conditioned avoidance response, a test indicative of antipsychotic activity, at doses below those producing catalepsy, an effect indicative of motor side-effects. Unlike some other antipsychotic agents, olanzapine increases responding in an “anxiolytic” test.

In a single oral dose (10 mg) Positron Emission Tomography (PET) study in healthy volunteers, olanzapine produced a higher 5 HT<sub>2A</sub> than dopamine D<sub>2</sub> receptor occupancy. In addition, a Single Photon Emission Computed Tomography (SPECT) imaging study in schizophrenic patients revealed that olanzapine-responsive patients had lower striatal D<sub>2</sub> occupancy than some other antipsychotic- and risperidone-responsive patients, while being comparable to clozapine-responsive patients.

**Clinical efficacy**

In two of two placebo and two of three comparator controlled trials with over 2,900 schizophrenic patients presenting with both positive and negative symptoms, olanzapine was associated with statistically significantly greater improvements in negative as well as positive symptoms.

In a multinational, double-blind, comparative study of schizophrenia, schizoaffective, and related disorders which included 1,481 patients with varying degrees of associated depressive symptoms (baseline mean of 16.6 on the Montgomery-Asberg Depression Rating Scale), a prospective secondary
analysis of baseline to endpoint mood score change demonstrated a statistically significant improvement (p = 0.001) favouring olanzapine (-6.0) versus haloperidol (-3.1).

In patients with a manic or mixed episode of bipolar disorder, olanzapine demonstrated superior efficacy to placebo and valproate semisodium (divalproex) in reduction of manic symptoms over 3 weeks. Olanzapine also demonstrated comparable efficacy results to haloperidol in terms of the proportion of patients in symptomatic remission from mania and depression at 6 and 12 weeks. In a co-therapy study of patients treated with lithium or valproate for a minimum of 2 weeks, the addition of olanzapine 10 mg (co-therapy with lithium or valproate) resulted in a greater reduction in symptoms of mania than lithium or valproate monotherapy after 6 weeks.

In a 12 month recurrence prevention study in manic episode patients who achieved remission on olanzapine and were then randomised to olanzapine or placebo, olanzapine demonstrated statistically significant superiority over placebo on the primary endpoint of bipolar recurrence. Olanzapine also showed a statistically significant advantage over placebo in terms of preventing either recurrence into mania or recurrence into depression.

In a second 12 month recurrence prevention study in manic episode patients who achieved remission with a combination of olanzapine and lithium and were then randomised to olanzapine or lithium alone, olanzapine was statistically non-inferior to lithium on the primary endpoint of bipolar recurrence (olanzapine 30.0 %, lithium 38.3 %; p = 0.055).

In an 18 month co-therapy study in manic or mixed episode patients stabilised with olanzapine plus a mood stabiliser (lithium or valproate), long-term olanzapine co-therapy with lithium or valproate was not statistically significantly superior to lithium or valproate alone in delaying bipolar recurrence, defined according to syndromic (diagnostic) criteria.

Paediatric population
Controlled efficacy data in adolescents (ages 13 to 17 years) are limited to short term studies in schizophrenia (6 weeks) and mania associated with bipolar I disorder (3 weeks), involving less than 200 adolescents. Olanzapine was used as a flexible dose starting with 2.5 and ranging up to 20 mg/day. During treatment with olanzapine, adolescents gained significantly more weight compared with adults. The magnitude of changes in fasting total cholesterol, LDL cholesterol, triglycerides, and prolactin (see sections 4.4 and 4.8) were greater in adolescents than in adults. There are no controlled data on maintenance of effect or long term safety (see sections 4.4 and 4.8). Information on long term safety is primarily limited to open-label, uncontrolled data.

5.2 Pharmacokinetic properties

Absorption
Olanzapine is well absorbed after oral administration, reaching peak plasma concentrations within 5 to 8 hours. The absorption is not affected by food. Absolute oral bioavailability relative to intravenous administration has not been determined.

Distribution
The plasma protein binding of olanzapine was about 93 % over the concentration range of about 7 to about 1000 ng/ml. Olanzapine is bound predominantly to albumin and α1-acid-glycoprotein.

Biotransformation
Olanzapine is metabolized in the liver by conjugative and oxidative pathways. The major circulating metabolite is the 10-N-glucuronide, which does not pass the blood brain barrier. Cytochromes P450-CYP1A2 and P450-CYP2D6 contribute to the formation of the N-desmethyl and 2-hydroxymethyl metabolites, both exhibited significantly less in vivo pharmacological activity than olanzapine in animal studies. The predominant pharmacologic activity is from the parent olanzapine.

Elimination
After oral administration, the mean terminal elimination half-life of olanzapine in healthy subjects varied on the basis of age and gender.

In healthy elderly (65 and over) versus non-elderly subjects, the mean elimination half-life was prolonged (51.8 versus 33.8 hr) and the clearance was reduced (17.5 versus 18.2 l/hr). The pharmacokinetic variability observed in the elderly is within the range for the non-elderly. In 44 patients with schizophrenia > 65 years of age, dosing from 5 to 20 mg/day was not associated with any distinguishing profile of adverse events.

In female versus male subjects the mean elimination half life was somewhat prolonged (36.7 versus 32.3 hr) and the clearance was reduced (18.9 versus 27.3 l/hr). However, olanzapine (5-20 mg) demonstrated a comparable safety profile in female (n = 467) as in male patients (n = 869).

Renal impairment
In renally impaired patients (creatinine clearance < 10 ml/min) versus healthy subjects, there was no significant difference in mean elimination half-life (37.7 versus 32.4 hr) or clearance (21.2 versus 25.0 l/hr). A mass balance study showed that approximately 57% of radiolabelled olanzapine appeared in urine, principally as metabolites.

Smokers
In smoking subjects with mild hepatic dysfunction, mean elimination half-life (39.3 hr) was prolonged and clearance (18.0 l/hr) was reduced analogous to non-smoking healthy subjects (48.8 hr and 14.1 l/hr, respectively).

In non-smoking versus smoking subjects (males and females) the mean elimination half-life was prolonged (38.6 versus 30.4 hr) and the clearance was reduced (18.6 versus 27.7 l/hr).

The plasma clearance of olanzapine is lower in elderly versus young subjects, in females versus males, and in non-smokers versus smokers. However, the magnitude of the impact of age, gender, or smoking on olanzapine clearance and half-life is small in comparison to the overall variability between individuals.

In a study of Caucasians, Japanese, and Chinese subjects, there were no differences in the pharmacokinetic parameters among the three populations.

Paediatric population
Adolescents (ages 13 to 17 years): The pharmacokinetics of olanzapine are similar between adolescents and adults. In clinical studies, the average olanzapine exposure was approximately 27% higher in adolescents. Demographic differences between the adolescents and adults include a lower average body weight and fewer adolescents were smokers. Such factors possibly contribute to the higher average exposure observed in adolescents.

5.3  Preclinical safety data

Acute (single-dose) toxicity
Signs of oral toxicity in rodents were characteristic of potent neuroleptic compounds: hypoactivity, coma, tremors, clonic convulsions, salivation, and depressed weight gain. The median lethal doses were approximately 210 mg/kg (mice) and 175 mg/kg (rats). Dogs tolerated single oral doses up to 100 mg/kg without mortality. Clinical signs included sedation, ataxia, tremors, increased heart rate, labored respiration, miosis, and anorexia. In monkeys, single oral doses up to 100 mg/kg resulted in prostration and, at higher doses, semi-consciousness.

Repeated-dose toxicity
In studies up to 3 months duration in mice and up to 1 year in rats and dogs, the predominant effects were CNS depression, anticholinergic effects, and peripheral haematological disorders. Tolerance developed to the CNS depression. Growth parameters were decreased at high doses. Reversible effects
consistent with elevated prolactin in rats included decreased weights of ovaries and uterus and morphologic changes in vaginal epithelium and in mammary gland.

**Haematologic toxicity**
Effects on haematology parameters were found in each species, including dose-related reductions in circulating leukocytes in mice and non-specific reductions of circulating leukocytes in rats; however, no evidence of bone marrow cytotoxicity was found. Reversible neutropenia, thrombocytopenia, or anaemia developed in a few dogs treated with 8 or 10 mg/kg/day (total olanzapine exposure [AUC] is 12- to 15-fold greater than that of a man given a 12-mg dose). In cytopenic dogs, there were no adverse effects on progenitor and proliferating cells in the bone marrow.

**Reproductive toxicity**
Olanzapine had no teratogenic effects. Sedation affected mating performance of male rats. Estrous cycles were affected at doses of 1.1 mg/kg (3 times the maximum human dose) and reproduction parameters were influenced in rats given 3 mg/kg (9 times the maximum human dose). In the offspring of rats given olanzapine, delays in foetal development and transient decreases in offspring activity levels were seen.

**Mutagenicity**
Olanzapine was not mutagenic or clastogenic in a full range of standard tests, which included bacterial mutation tests and *in vitro* and *in vivo* mammalian tests.

**Carcinogenicity**
Based on the results of studies in mice and rats, it was concluded that olanzapine is not carcinogenic.

6. **PHARMACEUTICAL PARTICULARS**

6.1 List of excipients

**Tablet core**
- Lactose monohydrate
- Hyprolose
- Crospovidone
- Microcrystalline cellulose
- Magnesium stearate

**Tablet coat**

*ZYPREXA 2.5 mg, 5 mg, 7.5 mg and 10 mg coated tablets*
- Hypromellose
- Colour mixture white (hypromellose, titanium dioxide E171, macrogol, polysorbate 80)
- Carnauba wax
- Edible blue ink (shellac, ethanol anhydrous, isopropyl alcohol, butyl alcohol, propylene glycol, ammonium hydroxide, indigo carmine E132)

*ZYPREXA 15 mg coated tablets*
- Hypromellose
- Colour mixture light blue (titanium dioxide E171, lactose monohydrate, hypromellose, triacetin, indigo carmine colour (E132))
- Carnauba wax

*ZYPREXA 20 mg coated tablets*
- Hypromellose
- Colour mixture pink (titanium dioxide E171, macrogol, lactose monohydrate, hypromellose, synthetic red iron oxide)
Carnauba wax

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

**ZYPREXA 2.5 mg coated tablets**
2 years.

**ZYPREXA 5 mg, 7.5 mg, 10 mg, 15 mg and 20 mg coated tablets**
3 years.

6.4 Special precautions for storage

Store in the original package in order to protect from light and moisture.

6.5 Nature and contents of container

Cold-formed aluminium blister strips in cartons of 28, 35, 56, 70 or 98 tablets per carton.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal

No special requirements.

7. MARKETING AUTHORISATION HOLDER

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528 BJ Utrecht, The Netherlands.

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/96/022/002 - ZYPREXA - 2.5 mg - coated tablets - 28 tablets, per box.
EU/1/96/022/019 - ZYPREXA - 2.5 mg - coated tablets - 56 tablets, per box.
EU/1/96/022/023 - ZYPREXA - 2.5 mg - coated tablets - 35 tablets, per box.
EU/1/96/022/029 - ZYPREXA - 2.5 mg - coated tablets - 70 tablets, per box.
EU/1/96/022/035 - ZYPREXA - 2.5 mg - coated tablets - 98 tablets, per box.
EU/1/96/022/004 - ZYPREXA - 5 mg - coated tablets - 28 tablets, per box.
EU/1/96/022/020 - ZYPREXA - 5 mg - coated tablets - 56 tablets, per box.
EU/1/96/022/024 - ZYPREXA - 5 mg - coated tablets - 35 tablets, per box.
EU/1/96/022/030 - ZYPREXA - 5 mg - coated tablets - 70 tablets, per box.
EU/1/96/022/036 - ZYPREXA - 5 mg - coated tablets - 98 tablets, per box.
EU/1/96/022/011 - ZYPREXA - 7.5 mg - coated tablets - 28 tablets, per box.
EU/1/96/022/006 - ZYPREXA - 7.5 mg - coated tablets - 56 tablets, per box.
EU/1/96/022/025 - ZYPREXA - 7.5 mg - coated tablets - 35 tablets, per box.
EU/1/96/022/031 - ZYPREXA - 7.5 mg - coated tablets - 70 tablets, per box.
EU/1/96/022/037 - ZYPREXA - 7.5 mg - coated tablets - 98 tablets, per box.
EU/1/96/022/009 - ZYPREXA - 10 mg - coated tablets - 28 tablets, per box.
EU/1/96/022/010 - ZYPREXA - 10 mg - coated tablets - 56 tablets, per box.
EU/1/96/022/026 - ZYPREXA - 10 mg - coated tablets - 35 tablets, per box.
EU/1/96/022/032 - ZYPREXA - 10 mg - coated tablets - 70 tablets, per box.
EU/1/96/022/038 - ZYPREXA - 10 mg - coated tablets - 98 tablets, per box.
EU/1/96/022/012 - ZYPREXA - 15 mg - coated tablets - 28 tablets, per box.
EU/1/96/022/021 - ZYPREXA - 15 mg - coated tablets - 56 tablets, per box.
EU/1/96/022/027 - ZYPREXA - 15 mg - coated tablets - 35 tablets, per box.
EU/1/96/022/033 - ZYPREXA - 15 mg - coated tablets - 70 tablets, per box.
EU/1/96/022/039 - ZYPREXA - 15 mg - coated tablets - 98 tablets, per box.
EU/1/96/022/014 - ZYPREXA - 20 mg - coated tablets - 28 tablets, per box.
EU/1/96/022/022 - ZYPREXA - 20 mg - coated tablets - 56 tablets, per box.
EU/1/96/022/028 - ZYPREXA - 20 mg - coated tablets - 35 tablets, per box.
EU/1/96/022/034 - ZYPREXA - 20 mg - coated tablets - 70 tablets, per box.
EU/1/96/022/040 - ZYPREXA - 20 mg - coated tablets - 98 tablets, per box.

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

Date of first authorisation: 27 September 1996
Date of latest renewal: 27 September 2006

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

{MM/YYYY}

Detailed information on this medicinal product is available on the website of the European Medicines Agency [http://www.ema.europa.eu](http://www.ema.europa.eu)
1. NAME OF THE MEDICINAL PRODUCT

ZYPREXA 10 mg powder for solution for injection

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each vial contains 10 mg olanzapine. After reconstitution each ml of the solution contains 5 mg olanzapine.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Powder for solution for injection
Yellow lyophilised powder.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Adults
ZYPREXA powder for solution for injection is indicated for the rapid control of agitation and disturbed behaviours in patients with schizophrenia or manic episode, when oral therapy is not appropriate. Treatment with ZYPREXA powder for solution for injection should be discontinued and the use of oral olanzapine should be initiated as soon as clinically appropriate.

4.2 Posology and method of administration

Adults
For intramuscular use. Do not administer intravenously or subcutaneously. ZYPREXA powder for solution for injection is intended for short term use only, for up to a maximum of three consecutive days.

The maximum daily dose of olanzapine (including all formulations of olanzapine) is 20 mg.

The recommended initial dose for olanzapine injection is 10 mg, administered as a single intramuscular injection. A lower dose (5 mg or 7.5 mg) may be given, on the basis of individual clinical status, which should also include consideration of medicinal products already administered either for maintenance or acute treatment (see section 4.4). A second injection, 5-10 mg, may be administered 2 hours after the first injection on the basis of individual clinical status. Not more than three injections should be given in any 24 hour period and the maximum daily dose of olanzapine of 20 mg (including all formulations) should not be exceeded.

ZYPREXA powder for solution for injection should be reconstituted in accordance with the recommendation in section 6.6.

For further information on continued treatment with oral olanzapine (5 to 20 mg daily), see the Summary of Product Characteristics for ZYPREXA coated tablets or ZYPREXA VELOTAB orodispersible tablets.

Special populations
**Elderly**  
The recommended starting dose in elderly patients (> 60 years) is 2.5 - 5 mg. Depending on the patient's clinical status (see section 4.4), a second injection, 2.5 - 5 mg, may be administered 2 hours after the first injection. Not more than 3 injections should be given in any 24 hour period and the maximum daily dose of 20 mg (including all formulations) of olanzapine should not be exceeded.

**Renal and/or hepatic impairment**  
A lower starting dose (5 mg) should be considered for such patients. In cases of moderate hepatic insufficiency (cirrhosis, Child-Pugh Class A or B), the starting dose should be 5 mg and only increased with caution.

**Smokers**  
The dose and dose range need not be routinely altered for non-smokers relative to smokers. The metabolism of olanzapine may be induced by smoking. Clinical monitoring is recommended and an increase of olanzapine dose may be considered if necessary (see section 4.5).

When more than one factor is present which might result in slower metabolism (female gender, geriatric age, non-smoking status), consideration should be given to decreasing the dose. Additional injections, when indicated, should be conservative in such patients.

(See sections 4.5 and 5.2)

**Paediatric population**  
There is no experience in children. ZYPREXA powder for solution for injection is not recommended for use in children and adolescents due to a lack of data on safety and efficacy.

### 4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1. Patients with known risk of narrow-angle glaucoma.

### 4.4 Special warnings and precautions for use

The efficacy of IM olanzapine has not been established in patients with agitation and disturbed behaviours related to conditions other than schizophrenia or manic episode.

**Unstable medical conditions**  
IM olanzapine should not be administered to patients with unstable medical conditions, such as acute myocardial infarction, unstable angina pectoris, severe hypotension and/or bradycardia, sick sinus syndrome, or following heart surgery. If the patient’s medical history with regard to these unstable medical conditions cannot be determined, the risks and benefits of IM olanzapine should be considered in relation to other alternative treatments.

**Concomitant use of benzodiazepines and other medicinal products**  
Special caution is necessary in patients who have received treatment with other medicinal products having haemodynamic properties similar to those of intramuscular olanzapine including other antipsychotics (oral and/or intramuscular) and benzodiazepines (see section 4.5). Temporal association of treatment with IM olanzapine with hypotension, bradycardia, respiratory depression and death has been very rarely (< 0.01 %) reported particularly in patients who have received benzodiazepines and/or other antipsychotics (see section 4.8).

Simultaneous injection of intramuscular olanzapine and parenteral benzodiazepine is not recommended due to the potential for excessive sedation, cardiorespiratory depression and in very rare cases, death (see sections 4.5 and 6.2). If the patient is considered to need parenteral benzodiazepine treatment, this should not be given until at least one hour after IM olanzapine administration. If the patient has received parenteral benzodiazepine, IM olanzapine administration should only be
considered after careful evaluation of clinical status and the patient should be closely monitored for excessive sedation and cardiorespiratory depression.

**Hypotension**
It is extremely important that patients receiving intramuscular olanzapine should be closely observed for hypotension including postural hypotension, bradycardia and/or hypoventilation, particularly for the first 4 hours following injection and close observation should be continued after this period if clinically indicated. Blood pressure, pulse, respiratory rate and level of consciousness should be observed regularly and remedial treatment provided if required. Patients should remain recumbent if dizzy or drowsy after injection until examination indicates that they are not experiencing hypotension including postural hypotension, bradycardia and/or hypoventilation.

The safety and efficacy of IM olanzapine has not been evaluated in patients with alcohol or drug intoxication (either with prescribed or illicit drugs) (see section 4.5).

**Dementia-related psychosis and/or behavioural disturbances**
Olanzapine is not recommended for use in patients with dementia-related psychosis and/or behavioural disturbances because of an increase in mortality and the risk of cerebrovascular accident. In placebo-controlled clinical trials (6-12 weeks duration) of elderly patients (mean age 78 years) with dementia-related psychosis and/or disturbed behaviours, there was a 2-fold increase in the incidence of death in olanzapine-treated patients compared to patients treated with placebo (3.5 % vs. 1.5 %, respectively). The higher incidence of death was not associated with olanzapine dose (mean daily dose 4.4 mg) or duration of treatment. Risk factors that may predispose this patient population to increased mortality include age > 65 years, dysphagia, sedation, malnutrition and dehydration, pulmonary conditions (e.g., pneumonia, with or without aspiration), or concomitant use of benzodiazepines. However, the incidence of death was higher in olanzapine-treated than in placebo-treated patients independent of these risk factors.

In the same clinical trials, cerebrovascular adverse events (CVAE e.g., stroke, transient ischemic attack), including fatalities, were reported. There was a 3-fold increase in CVAE in patients treated with olanzapine compared to patients treated with placebo (1.3% vs. 0.4%, respectively). All olanzapine- and placebo-treated patients who experienced a cerebrovascular event had pre-existing risk factors. Age > 75 years and vascular/mixed type dementia were identified as risk factors for CVAE in association with olanzapine treatment. The efficacy of olanzapine was not established in these trials.

**Parkinson's disease**
The use of olanzapine in the treatment of dopamine agonist associated psychosis in patients with Parkinson's disease is not recommended. In clinical trials, worsening of Parkinsonian symptomatology and hallucinations were reported very commonly and more frequently than with placebo (see section 4.8), and olanzapine was not more effective than placebo in the treatment of psychotic symptoms. In these trials, patients were initially required to be stable on the lowest effective dose of anti-Parkinsonian medicinal products (dopamine agonist) and to remain on the same anti-Parkinsonian medicinal products and dosages throughout the study. Olanzapine was started at 2.5 mg/day and titrated to a maximum of 15 mg/day based on investigator judgement.

**Neuroleptic Malignant Syndrome (NMS)**
NMS is a potentially life-threatening condition associated with antipsychotic medicinal products. Rare cases reported as NMS have also been received in association with olanzapine. Clinical manifestations of NMS are hyperpyrexia, muscle rigidity, altered mental status, and evidence of autonomic instability (irregular pulse or blood pressure, tachycardia, diaphoresis, and cardiac dysrhythmia). Additional signs may include elevated creatine phosphokinase, myoglobinuria (rhabdomyolysis), and acute renal failure. If a patient develops signs and symptoms indicative of NMS, or presents with unexplained high fever without additional clinical manifestations of NMS, all antipsychotic medicines, including olanzapine must be discontinued.
Hyperglycaemia and diabetes
Hyperglycaemia and/or development or exacerbation of diabetes occasionally associated with ketoacidosis or coma has been reported uncommonly, including some fatal cases (see section 4.8). In some cases, a prior increase in body weight has been reported which may be a predisposing factor. Appropriate clinical monitoring is advisable in accordance with utilised antipsychotic guidelines, e.g. measuring of blood glucose at baseline, 12 weeks after starting olanzapine treatment and annually thereafter. Patients treated with any antipsychotic medicines, including ZYPREXA, should be observed for signs and symptoms of hyperglycaemia (such as polydipsia, polyuria, polyphagia, and weakness) and patients with diabetes mellitus or with risk factors for diabetes mellitus should be monitored regularly for worsening of glucose control. Weight should be monitored regularly, e.g. at baseline, 4, 8 and 12 weeks after starting olanzapine treatment and quarterly thereafter.

Lipid alterations
Undesirable alterations in lipids have been observed in olanzapine-treated patients in placebo-controlled clinical trials (see section 4.8). Lipid alterations should be managed as clinically appropriate, particularly in dyslipidemic patients and in patients with risk factors for the development of lipids disorders. Patients treated with any antipsychotic medicines, including ZYPREXA, should be monitored regularly for lipids in accordance with utilised antipsychotic guidelines, e.g. at baseline, 12 weeks after starting olanzapine treatment and every 5 years thereafter.

Anticholinergic activity
While olanzapine demonstrated anticholinergic activity in vitro, experience during oral clinical trials revealed a low incidence of related events. However, as clinical experience with olanzapine in patients with concomitant illness is limited, caution is advised when prescribing for patients with prostatic hypertrophy, or paralytic ileus and related conditions.

Hepatic function
Transient, asymptomatic elevations of hepatic aminotransferases, ALT, AST have been seen commonly, especially in early treatment. Caution should be exercised and follow-up organised in patients with elevated ALT and/or AST, in patients with signs and symptoms of hepatic impairment, in patients with pre-existing conditions associated with limited hepatic functional reserve, and in patients who are being treated with potentially hepatotoxic medicines. In cases where hepatitis (including hepatocellular, cholestatic or mixed liver injury) has been diagnosed, olanzapine treatment should be discontinued.

Neutropenia
Caution should be exercised in patients with low leukocyte and/or neutrophil counts for any reason, in patients receiving medicines known to cause neutropenia, in patients with a history of drug-induced bone marrow depression/toxicity, in patients with bone marrow depression caused by concomitant illness, radiation therapy or chemotherapy and in patients with hypereosinophilic conditions or with myeloproliferative disease. Neutropenia has been reported commonly when olanzapine and valproate are used concomitantly (see section 4.8).

Discontinuation of treatment
Acute symptoms such as sweating, insomnia, tremor, anxiety, nausea, or vomiting have been reported rarely (≥ 0.01 % and < 0.1 %) when olanzapine is stopped abruptly.

QT interval
In clinical trials with oral administration, clinically meaningful QTc prolongations (Fridericia QT correction [QTcF] ≥ 500 milliseconds [msec] at any time post baseline in patients with baseline QTcF < 500 msec) were uncommon (0.1 % to 1 %) in patients treated with olanzapine, with no significant differences in associated cardiac events compared to placebo. In clinical trials with ZYPREXA powder for solution for injection, olanzapine was not associated with a persistent increase in absolute QT or in QTc intervals. However, caution should be exercised when olanzapine is prescribed with medicines known to increase QTc interval, especially in the elderly, in patients with congenital long QT syndrome, congestive heart failure, heart hypertrophy, hypokalaemia or hypomagnesaemia.
**Thromboembolism**
Temporal association of olanzapine treatment and venous thromboembolism has been reported uncommonly (≥ 0.1 % and < 1 %). A causal relationship between the occurrence of venous thromboembolism and treatment with olanzapine has not been established. However, since patients with schizophrenia often present with acquired risk factors for venous thromboembolism all possible risk factors of VTE e.g. immobilisation of patients, should be identified and preventive measures undertaken.

**General CNS activity**
Given the primary CNS effects of olanzapine, caution should be used when it is taken in combination with other centrally acting medicines and alcohol. As it exhibits in vitro dopamine antagonism, olanzapine may antagonize the effects of direct and indirect dopamine agonists.

**Seizures**
Olanzapine should be used cautiously in patients who have a history of seizures or are subject to factors which may lower the seizure threshold. Seizures have been reported to occur uncommonly in patients when treated with olanzapine. In most of these cases, a history of seizures or risk factors for seizures were reported.

**Tardive Dyskinesia**
In comparator oral studies of one year or less duration, olanzapine was associated with a statistically significant lower incidence of treatment emergent dyskinesia. However the risk of tardive dyskinesia increases with long term exposure, and therefore if signs or symptoms of tardive dyskinesia appear in a patient on olanzapine, a dose reduction or discontinuation should be considered. These symptoms can temporally deteriorate or even arise after discontinuation of treatment.

**Postural hypotension**
Postural hypotension was infrequently observed in the elderly in oral olanzapine clinical trials. It is recommended that blood pressure is measured periodically in patients over 65 years.

**Sudden cardiac death**
In postmarketing reports with olanzapine, the event of sudden cardiac death has been reported in patients with olanzapine. In a retrospective observational cohort study, the risk of presumed sudden cardiac death in patients treated with olanzapine was approximately twice the risk in patients not using antipsychotics. In the study, the risk of olanzapine was comparable to the risk of atypical antipsychotics included in a pooled analysis.

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

Interaction studies have only been performed in adults.

IM olanzapine has not been studied in patients with alcohol or drug intoxication (see section 4.4).

Caution should be exercised in patients who consume alcohol or receive medicinal products that can induce hypotension, bradycardia, respiratory or central nervous system depression (see section 4.4).

**Potential for interaction following intramuscular injection**
In a single dose intramuscular study of olanzapine 5 mg, administered 1 hour before intramuscular lorazepam 2 mg (metabolised by glucuronidation), the pharmacokinetics of both medicines were unchanged. However, the combination added to the somnolence observed with either medicines alone. Concomitant injection of olanzapine and parenteral benzodiazepine is not recommended (see sections 4.4 and 6.2).

**Potential interactions affecting olanzapine**
Since olanzapine is metabolised by CYP1A2, substances that can specifically induce or inhibit this isoenzyme may affect the pharmacokinetics of olanzapine.
Induction of CYP1A2
The metabolism of olanzapine may be induced by smoking and carbamazepine, which may lead to reduced olanzapine concentrations. Only slight to moderate increase in olanzapine clearance has been observed. The clinical consequences are likely to be limited, but clinical monitoring is recommended and an increase of olanzapine dose may be considered if necessary (see section 4.2).

Inhibition of CYP1A2
Fluvoxamine, a specific CYP1A2 inhibitor, has been shown to significantly inhibit the metabolism of olanzapine. The mean increase in olanzapine Cmax following fluvoxamine was 54% in female non-smokers and 77% in male smokers. The mean increase in olanzapine AUC was 52% and 108% respectively. A lower starting dose of olanzapine should be considered in patients who are using fluvoxamine or any other CYP1A2 inhibitors, such as ciprofloxacin. A decrease in the dose of olanzapine should be considered if treatment with an inhibitor of CYP1A2 is initiated.

Decreased bioavailability
Activated charcoal reduces the bioavailability of oral olanzapine by 50 to 60% and should be taken at least 2 hours before or after olanzapine.

Fluoxetine (a CYP2D6 inhibitor), single doses of antacid (aluminium, magnesium) or cimetidine have not been found to significantly affect the pharmacokinetics of olanzapine.

Potential for olanzapine to affect other medicinal products
Olanzapine may antagonise the effects of direct and indirect dopamine agonists (see section 6.2).

Olanzapine does not inhibit the main CYP450 isoenzymes in vitro (e.g. 1A2, 2D6, 2C9, 2C19, 3A4). Thus no particular interaction is expected as verified through in vivo studies where no inhibition of metabolism of the following active substances was found: tricyclic antidepressant (representing mostly CYP2D6 pathway), warfarin (CYP2C9), theophylline (CYP1A2) or diazepam (CYP3A4 and 2C19).

Olanzapine showed no interaction when co-administered with lithium or biperiden.

Therapeutic monitoring of valproate plasma levels did not indicate that valproate dosage adjustment is required after the introduction of concomitant olanzapine.

The concomitant use of olanzapine with anti-Parkinsonian medicinal products in patients with Parkinson's disease and dementia is not recommended (see section 4.4).

QTc interval
Caution should be used if olanzapine is being administered concomitantly with medicinal products known to increase QTc interval (see section 4.4).

4.6 Fertility, pregnancy and lactation

Pregnancy
There are no adequate and well-controlled studies in pregnant women. Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during treatment with olanzapine. Nevertheless, because human experience is limited, olanzapine should be used in pregnancy only if the potential benefit justifies the potential risk to the foetus.

New born infant exposed to antipsychotics (including olanzapine) during the third trimester of pregnancy are at risk of adverse reactions including extrapyramidal and/or withdrawal symptoms that may vary in severity and duration following delivery. There have been reports of agitation, hypertonia, hypotonia, tremor, somnolence, respiratory distress, or feeding disorder. Consequently, newborns should be monitored carefully.
Breast-feeding
In a study in breast-feeding, healthy women, olanzapine was excreted in breast milk. Mean infant exposure (mg/kg) at steady state was estimated to be 1.8% of the maternal olanzapine dose (mg/kg). Patients should be advised not to breast feed an infant if they are taking olanzapine.

Fertility
Effects on fertility are unknown (see section 5.3 for preclinical information).

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. Because olanzapine may cause somnolence and dizziness, patients should be cautioned about operating machinery, including motor vehicles.

4.8 Undesirable effects

Summary of the safety profile
A common (≥ 1/100 to < 1/10) undesirable effect associated with the use of intramuscular olanzapine in clinical trials was somnolence.

In post marketing reports, temporal association of treatment with IM olanzapine with cases of respiratory depression, hypotension or bradycardia and death have been very rarely reported, mostly in patients who concomitantly received benzodiazepines, and/or other antipsychotic medicinal products or who were treated in excess of olanzapine recommended daily doses (see sections 4.4 and 4.5).

The following table is based on the undesirable effects and laboratory investigations from clinical trials with ZYPREXA powder for solution for injection rather than oral olanzapine.

<table>
<thead>
<tr>
<th>Cardiac disorders</th>
<th>Common (≥ 1/100 to &lt; 1/10): Bradycardia with or without hypotension or syncope, tachycardia. Uncommon (≥ 1/1,000 to &lt; 1/100): Sinus pause.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vascular Disorders</td>
<td>Common (≥ 1/100 to &lt; 1/10): Postural hypotension, hypotension.</td>
</tr>
<tr>
<td>Respiratory disorders</td>
<td>Uncommon (≥ 1/1,000 to &lt; 1/100): Hypoventilation.</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Common (≥ 1/100 to &lt; 1/10): Injection site discomfort.</td>
</tr>
</tbody>
</table>

The undesirable effects listed below have been observed following administration of oral and prolonged release intramuscular injection olanzapine, but may also occur following administration of ZYPREXA powder for solution for injection.

Adults
The most frequently (seen in ≥ 1% of patients) reported adverse reactions associated with the use of olanzapine in clinical trials were somnolence, weight gain, eosinophilia, elevated prolactin, cholesterol, glucose and triglyceride levels (see section 4.4), glucosuria, increased appetite, dizziness, akathisia, parkinsonism, leukopenia, neutropenia (see section 4.4), dyskinesia, orthostatic hypotension, anticholinergic effects, transient asymptomatic elevations of hepatic aminotransferases (see section 4.4), rash, asthenia, fatigue, pyrexia, arthralgia, increased alkaline phosphatase, high gamma glutamyltransferase, high uric acid, high creatine phosphokinase and oedema.

Tabulated list of adverse reactions
The following table lists the adverse reactions and laboratory investigations observed from spontaneous reporting and in clinical trials. Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness. The frequency terms listed are defined as follows: Very common (≥ 1/10), common (≥ 1/100 to < 1/10), uncommon (≥ 1/1,000 to < 1/100), rare (≥ 1/10,000 to < 1/1,000), very rare (< 1/10,000), not known (cannot be estimated from the data available).
<table>
<thead>
<tr>
<th>Very common</th>
<th>Common</th>
<th>Uncommon</th>
<th>Rare</th>
<th>Not known</th>
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<tbody>
<tr>
<td><strong>Blood and the lymphatic system disorders</strong></td>
<td></td>
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<tr>
<td>Eosinophilia(^{10})</td>
<td>Leukopenia(^{10})</td>
<td>Neutropenia(^{10})</td>
<td>Thrombocytopenia(^{11})</td>
<td></td>
</tr>
<tr>
<td><strong>Immune system disorders</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Hypersensitivity(^{11})</td>
<td></td>
</tr>
<tr>
<td><strong>Metabolism and nutrition disorders</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight gain(^{1})</td>
<td>Elevated cholesterol levels(^{2,3})</td>
<td>Elevated glucose levels(^{4})</td>
<td>Elevated triglyceride levels(^{2,5})</td>
<td>Glucosuria</td>
</tr>
<tr>
<td></td>
<td>Development or exacerbation of diabetes occasionally associated with ketoacidosis or coma, including some fatal cases (see section 4.4)(^{11})</td>
<td>Hypothermia(^{12})</td>
<td></td>
<td></td>
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<tr>
<td><strong>Nervous system disorders</strong></td>
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<td></td>
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<tr>
<td>Somnolence</td>
<td>Dizziness</td>
<td>Akathisia(^{6})</td>
<td>Parkinsonism(^{6})</td>
<td>Dyskinesia(^{6})</td>
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<tr>
<td><strong>Cardiac disorders</strong></td>
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<tr>
<td></td>
<td>Bradycardia</td>
<td>QT(_{c}) prolongation (see section 4.4)</td>
<td>Ventricular tachycardia/fibrillation, sudden death (see section 4.4)(^{11})</td>
<td></td>
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<tr>
<td><strong>Vascular disorders</strong></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Orthostatic hypotension(^{10})</td>
<td></td>
<td></td>
<td>Thromboembolism (including pulmonary embolism and deep vein thrombosis) (see section 4.4)</td>
<td></td>
</tr>
<tr>
<td><strong>Respiratory, thoracic and mediastinal disorders</strong></td>
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<tr>
<td></td>
<td>Epistaxis(^{7})</td>
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<tr>
<td><strong>Gastrointestinal disorders</strong></td>
<td></td>
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<tr>
<td>Mild, transient anticholinergic effects including constipation and dry mouth</td>
<td>Abdominal distension(^{9})</td>
<td></td>
<td>Pancreatitis(^{11})</td>
<td></td>
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<tr>
<td>Hepatobiliary disorders</td>
<td></td>
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<tr>
<td>Transient, asymptomatic elevations of hepatic aminotransferases (ALT, AST), especially in early treatment (see section 4.4)</td>
<td>Hepatitis (including hepatocellular, cholestatic or mixed liver injury)</td>
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<table>
<thead>
<tr>
<th>Skin and subcutaneous tissue disorders</th>
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<tbody>
<tr>
<td>Rash</td>
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<table>
<thead>
<tr>
<th>Musculoskeletal and connective tissue disorders</th>
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<tbody>
<tr>
<td>Arthralgia</td>
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<table>
<thead>
<tr>
<th>Renal and urinary disorders</th>
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<tbody>
<tr>
<td>Urinary incontinence, urinary retention Urinary hesitation</td>
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<table>
<thead>
<tr>
<th>Pregnancy, puerperium and perinatal conditions</th>
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<tbody>
<tr>
<td>Drug withdrawal syndrome neonatal (see section 4.6)</td>
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<tr>
<th>Reproductive system and breast disorders</th>
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<tbody>
<tr>
<td>Erectile dysfunction in males Decreased libido in males and females</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>General disorders and administration site conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asthenia Fatigue Oedema Pyrexia</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Investigations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevated plasma prolactin levels</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>High creatine phosphokinase</td>
</tr>
<tr>
<td>11</td>
</tr>
<tr>
<td>High Uric acid</td>
</tr>
</tbody>
</table>
Clinically significant weight gain was observed across all baseline Body Mass Index (BMI) categories. Following short term treatment (median duration 47 days), weight gain ≥ 7% of baseline body weight was very common (22.2 %), ≥ 15 % was common (4.2 %) and ≥ 25 % was uncommon (0.8 %). Patients gaining ≥ 7 %, ≥ 15 % and ≥ 25 % of their baseline body weight with long-term exposure (at least 48 weeks) were very common (64.4 %, 31.7 % and 12.3 % respectively).

Mean increases in fasting lipid values (total cholesterol, LDL cholesterol, and triglycerides) were greater in patients without evidence of lipid dysregulation at baseline.

Observed for fasting normal levels at baseline (< 5.17 mmol/l) which increased to high (≥ 6.2 mmol/l). Changes in total fasting cholesterol levels from borderline at baseline (≥ 5.17 - < 6.2 mmol/l) to high (≥ 6.2 mmol/l) were very common.

Observed for fasting normal levels at baseline (< 5.56 mmol/l) which increased to high (≥ 7 mmol/l). Changes in fasting glucose from borderline at baseline (≥ 5.56 - < 7 mmol/l to high (≥ 7 mmol/l) were very common.

Observed for fasting normal levels at baseline (< 1.69 mmol/l) which increased to high (≥ 2.26 mmol/l). Changes in fasting triglycerides from borderline at baseline (≥ 1.69 mmol/l - < 2.26 mmol/l) to high (≥ 2.26 mmol/l) were very common.

In clinical trials, the incidence of Parkinsonism and dystonia in olanzapine-treated patients was numerically higher, but not statistically significantly different from placebo. Olanzapine-treated patients had a lower incidence of Parkinsonism, akathisia and dystonia compared with titrated doses of haloperidol. In the absence of detailed information on the pre-existing history of individual acute and tardive extrapyramidal movement disorders, it cannot be concluded at present that olanzapine produces less tardive dyskinesia and/or other tardive extrapyramidal syndromes.

Acute symptoms such as sweating, insomnia, tremor, anxiety, nausea and vomiting have been reported when olanzapine is stopped abruptly.

In clinical trials of up to 12 weeks, plasma prolactin concentrations exceeded the upper limit of normal range in approximately 30% of olanzapine treated patients with normal baseline prolactin value. In the majority of these patients the elevations were generally mild, and remained below two times the upper limit of normal range.

Adverse event identified from clinical trials in the Olanzapine Integrated Database.

As assessed by measured values from clinical trials in the Olanzapine Integrated Database.

Adverse event identified from spontaneous post-marketing reporting with frequency determined utilising the Olanzapine Integrated Database.

Adverse event identified from spontaneous post-marketing reporting with frequency estimated at the upper limit of the 95% confidence interval utilising the Olanzapine Integrated Database.

Long-term exposure (at least 48 weeks)
The proportion of patients who had adverse, clinically significant changes in weight gain, glucose, total/LDL/HDL cholesterol or triglycerides increased over time. In adult patients who completed 9-12 months of therapy, the rate of increase in mean blood glucose slowed after approximately 6 months.

Additional information on special populations
In clinical trials in elderly patients with dementia, olanzapine treatment was associated with a higher incidence of death and cerebrovascular adverse reactions compared to placebo (see section 4.4). Very common adverse reactions associated with the use of olanzapine in this patient group were abnormal gait and falls. Pneumonia, increased body temperature, lethargy, erythema, visual hallucinations and urinary incontinence were observed commonly.
In clinical trials in patients with drug-induced (dopamine agonist) psychosis associated with Parkinson’s disease, worsening of Parkinsonian symptomatology and hallucinations were reported very commonly and more frequently than with placebo.

In one clinical trial in patients with bipolar mania, valproate combination therapy with olanzapine resulted in an incidence of neutropenia of 4.1%; a potential contributing factor could be high plasma valproate levels. Olanzapine administered with lithium or valproate resulted in increased levels (≥ 10%) of tremor, dry mouth, increased appetite, and weight gain. Speech disorder was also reported commonly. During treatment with olanzapine in combination with lithium or divalproex, an increase of ≥ 7% from baseline body weight occurred in 17.4% of patients during acute treatment (up to 6 weeks). Long-term olanzapine treatment (up to 12 months) for recurrence prevention in patients with bipolar disorder was associated with an increase of ≥ 7% from baseline body weight in 39.9% of patients.

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

Signs and symptoms

Very common symptoms in overdose (> 10% incidence) include tachycardia, agitation/aggressiveness, dysarthria, various extrapyramidal symptoms, and reduced level of consciousness ranging from sedation to coma.

Other medically significant sequelae of overdose include delirium, convulsion, coma, possible neuroleptic malignant syndrome, respiratory depression, aspiration, hypertension or hypotension, cardiac arrhythmias (< 2% of overdose cases) and cardiopulmonary arrest. Fatal outcomes have been reported for acute overdoses as low as 450 mg but survival has also been reported following acute overdose of approximately 2 g of oral olanzapine.

Management

There is no specific antidote for olanzapine.

Symptomatic treatment and monitoring of vital organ function should be instituted according to clinical presentation, including treatment of hypotension and circulatory collapse and support of respiratory function. Do not use epinephrine, dopamine, or other sympathomimetic agents with beta-agonist activity since beta stimulation may worsen hypotension. Cardiovascular monitoring is necessary to detect possible arrhythmias. Close medical supervision and monitoring should continue until the patient recovers.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: psycholeptics, diazepines, oxazepines, thiazepines and oxepines, ATC code N05A H03.

Pharmacodynamic effects

Olanzapine is an antipsychotic, antimanic and mood stabilising agent that demonstrates a broad pharmacologic profile across a number of receptor systems.
In preclinical studies, olanzapine exhibited a range of receptor affinities (Kᵢ < 100 nM) for serotonin 5 HT₂A/C, 5 HT₃, 5 HT₆; dopamine D₁, D₂, D₃, D₄, D₅; cholinergic muscarinic receptors M₁-M₅; α₁ adrenergic; and histamine H₁ receptors. Animal behavioural studies with olanzapine indicated 5HT, dopamine, and cholinergic antagonism, consistent with the receptor-binding profile. Olanzapine demonstrated a greater in vitro affinity for serotonin 5HT₂ than dopamine D₂ receptors and greater 5HT₂ than D₂ activity in vivo models. Electrophysiological studies demonstrated that olanzapine selectively reduced the firing of mesolimbic (A10) dopaminergic neurons, while having little effect on the striatal (A9) pathways involved in motor function. Olanzapine reduced a conditioned avoidance response, a test indicative of antipsychotic activity, at doses below those producing catalepsy, an effect indicative of motor side-effects. Unlike some other antipsychotic agents, olanzapine increases responding in an “anxiolytic” test.

In a single oral dose (10 mg) Positron Emission Tomography (PET) study in healthy volunteers, olanzapine produced a higher 5HT₂ than dopamine D₂ receptor occupancy. In addition, a Single Photon Emission Computed Tomography (SPECT) imaging study in schizophrenic patients revealed that olanzapine-responsive patients had lower striatal D₂ occupancy than some other antipsychotic- and risperidone-responsive patients, while being comparable to clozapine-responsive patients.

Clinical efficacy
In two of two placebo and two of three comparator controlled trials with over 2,900 schizophrenic patients presenting with both positive and negative symptoms, olanzapine was associated with statistically significantly greater improvements in negative as well as positive symptoms.

In a multinational, double-blind, comparative study of schizophrenia, schizoaffective, and related disorders which included 1,481 patients with varying degrees of associated depressive symptoms (baseline mean of 16.6 on the Montgomery-Asberg Depression Rating Scale), a prospective secondary analysis of baseline to endpoint mood score change demonstrated a statistically significant improvement (p= 0.001) favouring olanzapine (-6.0) versus haloperidol (-3.1).

In patients with a manic or mixed episode of bipolar disorder, olanzapine demonstrated superior efficacy to placebo and valproate semisodium (divalproex) in reduction of manic symptoms over 3 weeks. Olanzapine also demonstrated comparable efficacy results to haloperidol in terms of the proportion of patients in symptomatic remission from mania and depression at 6 and 12 weeks. In a co-therapy study of patients treated with lithium or valproate for a minimum of 2 weeks, the addition of olanzapine 10 mg (co-therapy with lithium or valproate) resulted in a greater reduction in symptoms of mania than lithium or valproate monotherapy after 6 weeks.

In a 12-month recurrence prevention study in manic episode patients who achieved remission on olanzapine and were then randomised to olanzapine or placebo, olanzapine demonstrated statistically significant superiority over placebo on the primary endpoint of bipolar recurrence. Olanzapine also showed a statistically significant advantage over placebo in terms of preventing either recurrence into mania or recurrence into depression.

In a second 12-month recurrence prevention study in manic episode patients who achieved remission with a combination of olanzapine and lithium and were then randomised to olanzapine or lithium alone, olanzapine was statistically non-inferior to lithium on the primary endpoint of bipolar recurrence (olanzapine 30.0%, lithium 38.3%; p = 0.055).

In an 18-month co-therapy study in manic or mixed episode patients stabilised with olanzapine plus a mood stabiliser (lithium or valproate), long-term olanzapine co-therapy with lithium or valproate was not statistically significantly superior to lithium or valproate alone in delaying bipolar recurrence, defined according to syndromic (diagnostic) criteria.

5.2 Pharmacokinetic properties
In a pharmacokinetic study in healthy volunteers, a dose of 5 mg of ZYPREXA powder for solution for injection produced a maximum plasma concentration (Cmax) approximately 5 times higher than
that seen with the same dose of olanzapine administered orally. The Cmax occurs earlier after intramuscular compared to oral use (15 to 45 minutes versus 5 to 8 hours). As with oral use, Cmax and area under the curve after intramuscular use are directly proportional to the dose administered. For the same dose of olanzapine administered intramuscularly and orally, the associated area under the curve, half-life, clearance and volume of distribution are similar. The metabolic profiles following intramuscular and oral use are similar.

In non-smoking versus smoking subjects (males and females) administered olanzapine intramuscularly the mean elimination half-life was prolonged (38.6 versus 30.4 hr) and the clearance was reduced (18.6 versus 27.7 l/hr).

Additional pharmacokinetic data following administration of oral olanzapine are described below.

**Distribution**
The plasma protein binding of olanzapine was about 93 % over the concentration range of about 7 to about 1,000 ng/ml. Olanzapine is bound predominantly to albumin and α1-acid-glycoprotein.

**Biotransformation**
Olanzapine is metabolised in the liver by conjugative and oxidative pathways. The major circulating metabolite is the 10-N-glucuronide, which does not pass the blood brain barrier. Cytochromes P450-CYP1A2 and P450-CYP2D6 contribute to the formation of the N-desmethyl and 2-hydroxymethyl metabolites, both exhibited significantly less in vivo pharmacological activity than olanzapine in animal studies. The predominant pharmacologic activity is from the parent olanzapine.

**Elimination**
After oral administration, the mean terminal elimination half-life of olanzapine in healthy subjects varied on the basis of age and gender.

In healthy elderly (65 and over) versus non-elderly subjects administered oral olanzapine, the mean elimination half-life was prolonged (51.8 versus 33.8 hr) and the clearance was reduced (17.5 versus 18.2 l/hr). The pharmacokinetic variability observed in the elderly is within the range for the non-elderly. In 44 patients with schizophrenia > 65 years of age, dosing from 5 to 20 mg/day was not associated with any distinguishing profile of adverse events.

In female versus male subjects administered oral olanzapine the mean elimination half-life was somewhat prolonged (36.7 versus 32.3 hrs) and the clearance was reduced (18.9 versus 27.3 l/hr). However, olanzapine (5-20 mg) demonstrated a comparable safety profile in female (n=467) as in male patients (n=869).

**Renal impairment**
In renally impaired patients (creatinine clearance < 10 ml/min) versus healthy subjects administered oral olanzapine, there was no significant difference in mean elimination half-life (37.7 versus 32.4 hr) or clearance (21.2 versus 25.0 l/hr). A mass balance study showed that approximately 57 % of radiolabelled olanzapine appeared in urine, principally as metabolites.

**Smokers**
In smoking subjects with mild hepatic dysfunction administered olanzapine orally, mean elimination half-life (39.3 hr) was prolonged and clearance (18.0 l/hr) was reduced analogous to non-smoking healthy subjects (48.8 hr and 14.1 l/hr, respectively).

The plasma clearance of olanzapine is lower in elderly versus young subjects, in females versus males, and in non-smokers versus smokers. However, the magnitude of the impact of age, gender, or smoking on olanzapine clearance and half-life is small in comparison to the overall variability between individuals.

In a study of Caucasians, Japanese, and Chinese subjects, there were no differences in the pharmacokinetic parameters among the three populations.
5.3 Preclinical safety data

Acute (single-dose) toxicity
Signs of oral toxicity in rodents were characteristic of potent antipsychotic compounds: hypoactivity, coma, tremors, clonic convulsions, salivation, and depressed weight gain. The median lethal doses were approximately 210 mg/kg (mice) and 175 mg/kg (rats). Dogs tolerated single oral doses up to 100 mg/kg without mortality. Clinical signs included sedation, ataxia, tremors, increased heart rate, laboured respiration, miosis, and anorexia. In monkeys, single oral doses up to 100 mg/kg resulted in prostration and, at higher doses, semi-consciousness.

Repeated-dose toxicity
In studies up to 3 months duration in mice and up to 1 year in rats and dogs, the predominant effects were CNS depression, anticholinergic effects, and peripheral haematological disorders. Tolerance developed to the CNS depression. Growth parameters were decreased at high doses. Reversible effects consistent with elevated prolactin in rats included decreased weights of ovaries and uterus and morphologic changes in vaginal epithelium and in mammary gland.

Haematologic toxicity
Effects on haematology parameters were found in each species, including dose-related reductions in circulating leukocytes in mice and non-specific reductions of circulating leukocytes in rats; however, no evidence of bone marrow cytotoxicity was found. Reversible neutropenia, thrombocytopenia, or anaemia developed in a few dogs treated with 8 or 10 mg/kg/day (total olanzapine exposure [AUC] is 12- to 15-fold greater than that of a man given a 12-mg dose). In cytopenic dogs, there were no undesirable effects on progenitor and proliferating cells in the bone marrow.

Reproductive toxicity
Olanzapine had no teratogenic effects. Sedation affected mating performance of male rats. Oestrous cycles were affected at doses of 1.1 mg/kg (3 times the maximum human dose) and reproduction parameters were influenced in rats given 3 mg/kg (9 times the maximum human dose). In the offspring of rats given olanzapine, delays in foetal development and transient decreases in offspring activity levels were seen.

Mutagenicity
Olanzapine was not mutagenic or clastogenic in a full range of standard tests, which included bacterial mutation tests and in vitro and oral in vivo mammalian tests.

Carcinogenicity
Based on the results of oral studies in mice and rats, it was concluded that olanzapine is not carcinogenic.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients
Lactose monohydrate
Tartaric acid, E334
Hydrochloric acid.
Sodium hydroxide.

6.2 Incompatibilities
This medicinal product must not be mixed with other medicinal products except those mentioned in section 6.6.
Olanzapine for injection should not be combined in a syringe with diazepam injection because precipitation occurs when these products are mixed.

Lorazepam injection should not be used to reconstitute olanzapine for injection as this combination results in a delayed reconstitution time.

Olanzapine for injection should not be combined in a syringe with haloperidol injection because the resulting low pH has been shown to degrade olanzapine over time.

6.3 Shelf life

Powder: 3 years.
Solution (after reconstitution): 1 hour. Do not freeze.

6.4 Special precautions for storage

Do not store above 25º C. Store in the original package in order to protect from light. For storage conditions of the reconstituted medicinal product, see section 6.3.

6.5 Nature and contents of container

Type I, 5 ml glass vial.
One carton contains 1 or 10 vial(s).

Not all pack sizes may be marketed.

6.6 Special precautions for disposal

Reconstitute ZYPREXA only with water for injections using standard aseptic techniques for reconstitution of parenteral products. No other solutions should be used for reconstitution (see section 6.2).

1. Withdraw 2.1 ml of water for injection into a sterile syringe. Inject into a vial of ZYPREXA.

2. Rotate the vial until the contents have completely dissolved, giving a yellow coloured solution. The vial contains 11.0 mg olanzapine as a solution of 5 mg/ml (1 mg olanzapine is retained in the vial and syringe, thus allowing delivery of 10 mg olanzapine).

3. The following table provides injection volumes for delivering various doses of olanzapine:

<table>
<thead>
<tr>
<th>Dose (mg)</th>
<th>Volume of injection (ml)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>2.0</td>
</tr>
<tr>
<td>7.5</td>
<td>1.5</td>
</tr>
<tr>
<td>5</td>
<td>1.0</td>
</tr>
<tr>
<td>2.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

4. Administer the solution intramuscularly. Do not administer intravenously or subcutaneously.

5. Discard the syringe and any unused solution in accordance with appropriate clinical procedures.

6. Use the solution immediately within 1 hour of reconstitution.

Parenteral medicines should be inspected visually for particulate matter prior to administration.
7. MARKETING AUTHORISATION HOLDER

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528 BJ Utrecht, The Netherlands.

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/96/022/016 – ZYPREXA - Powder for solution for injection. 1 vial
EU/1/96/022/017 – ZYPREXA - Powder for solution for injection. 10 vials

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 27 September 1996
Date of latest renewal: 27 September 2006

10. DATE OF REVISION OF THE TEXT

{MM/YYYY}

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

A. MANUFACTURERS 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. MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE

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

*Coated Tablets*
Lilly S.A., Avda. de la Industria 30, 28108 Alcobendas, Madrid, Spain.

*Powder for solution for injection*
Lilly S.A., Avda. de la Industria 30, 28108 Alcobendas, Madrid, Spain.

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription.

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORIZATION

- Periodic Safety Update Reports

The requirements for submission of periodic safety update reports 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 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
CARTON OF COATED TABLETS IN BLISTERS

1. NAME OF THE MEDICINAL PRODUCT

ZYPREXA 2.5 mg coated tablets
olanzapine

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each coated tablet contains 2.5 mg olanzapine

3. LIST OF EXCIPIENTS

Contains lactose monohydrate see package leaflet for further information

4. PHARMACEUTICAL FORM AND CONTENTS

28 coated tablets
35 coated tablets
56 coated tablets
70 coated tablets
98 coated tablets

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 in the original package in order to protect from light and moisture.
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528 BJ Utrecht, The Netherlands.

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/96/022/002 28 coated tablets
EU/1/96/022/023 35 coated tablets
EU/1/96/022/019 56 coated tablets
EU/1/96/022/029 70 coated tablets
EU/1/96/022/035 98 coated tablets

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

Medicinal product subject to medical prescription.

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

ZYPREXA 2.5 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

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<tr>
<td>Olanzapine</td>
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<thead>
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<th>4. BATCH NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lot</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. OTHER</th>
</tr>
</thead>
</table>
PARTICULARS TO APPEAR ON THE OUTER PACKAGING CARTON OF COATED TABLETS IN BLISTERS

1. NAME OF THE MEDICINAL PRODUCT

ZYPREXA 5 mg coated tablets
olanzapine

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each coated tablet contains 5 mg olanzapine

3. LIST OF EXCIPIENTS

Contains lactose monohydrate see package leaflet for further information

4. PHARMACEUTICAL FORM AND CONTENTS

28 coated tablets
35 coated tablets
56 coated tablets
70 coated tablets
98 coated tablets

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 in the original package in order to protect from light and 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**

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528 BJ Utrecht, The Netherlands

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

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13. **BATCH NUMBER**

Lot

14. **GENERAL CLASSIFICATION FOR SUPPLY**

Medicinal product subject to medical prescription

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

ZYPREXA 5 mg

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

2D barcode carrying the unique identifier included.

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

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<th>MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS</th>
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</thead>
<tbody>
<tr>
<td>ZYPREXA 5 mg COATED TABLETS: BLISTER FOIL LABEL</td>
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</table>

1. **NAME OF THE MEDICINAL PRODUCT**

   ZYPREXA 5 mg coated tablets
   Olanzapine

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

   Lilly

3. **EXPIRY DATE**

   EXP

4. **BATCH NUMBER**

   Lot

5. **OTHER**
PARTICULARS TO APPEAR ON THE OUTER PACKAGING
CARTON OF COATED TABLETS IN BLISTERS

1. NAME OF THE MEDICINAL PRODUCT

ZYPREXA 7.5 mg coated tablets
olanzapine

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each coated tablet contains 7.5 mg olanzapine

3. LIST OF EXCIPIENTS

Contains lactose monohydrate see package leaflet for further information

4. PHARMACEUTICAL FORM AND CONTENTS

28 coated tablets
35 coated tablets
56 coated tablets
70 coated tablets
98 coated tablets

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 in the original package in order to protect from light and 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**

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528 BJ Utrecht, The Netherlands

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

EU/1/96/022/011 28 coated tablets
EU/1/96/022/025 35 coated tablets
EU/1/96/022/006 56 coated tablets
EU/1/96/022/031 70 coated tablets
EU/1/96/022/037 98 coated tablets

13. **BATCH NUMBER**

Lot

14. **GENERAL CLASSIFICATION FOR SUPPLY**

Medicinal product subject to medical prescription

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

ZYPREXA 7.5 mg

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

2D barcode carrying the unique identifier included

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

PC: {number}
SN: {number}
NN: {number}
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<tr>
<th>MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS</th>
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</thead>
<tbody>
<tr>
<td>ZYPREXA 7.5 mg COATED TABLETS: BLISTER FOIL LABEL</td>
</tr>
</tbody>
</table>

1. NAME OF THE MEDICINAL PRODUCT

ZYPREXA 7.5 mg coated tablets
Olanzapine

2. NAME OF THE MARKETING AUTHORISATION HOLDER

Lilly

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER
PARTICULARS TO APPEAR ON THE OUTER PACKAGING CARTON OF COATED TABLETS IN BLISTERS

1. NAME OF THE MEDICINAL PRODUCT

ZYPREXA 10 mg coated tablets
olanzapine

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each coated tablet contains 10 mg olanzapine

3. LIST OF EXCIPIENTS

Contains lactose monohydrate see package leaflet for further information

4. PHARMACEUTICAL FORM AND CONTENTS

28 coated tablets
35 coated tablets
56 coated tablets
70 coated tablets
98 coated tablets

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 in the original package in order to protect from light and 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

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528 BJ Utrecht, The Netherlands

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/96/022/009 28 coated tablets
EU/1/96/022/026 35 coated tablets
EU/1/96/022/010 56 coated tablets
EU/1/96/022/032 70 coated tablets
EU/1/96/022/038 98 coated tablets

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

Medicinal product subject to medical prescription

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

ZYPREXA 10 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC: {number}
SN: {number}
NN: {number}
## MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

**ZYPREXA 10 mg COATED TABLETS: BLISTER FOIL LABEL**

### 1. NAME OF THE MEDICINAL PRODUCT

ZYPREXA 10 mg coated tablets  
Olanzapine

### 2. NAME OF THE MARKETING AUTHORISATION HOLDER

Lilly

### 3. EXPIRY DATE

EXP

### 4. BATCH NUMBER

Lot

### 5. OTHER
PARTICULARS TO APPEAR ON THE OUTER PACKAGING
CARTON OF COATED TABLETS IN BLISTERS

1. NAME OF THE MEDICINAL PRODUCT

ZYPREXA 15 mg coated tablets
olanzapine

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each coated tablet contains 15 mg olanzapine

3. LIST OF EXCIPIENTS

Contains lactose monohydrate see package leaflet for further information

4. PHARMACEUTICAL FORM AND CONTENTS

28 coated tablets
35 coated tablets
56 coated tablets
70 coated tablets
98 coated tablets

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 in the original package in order to protect from light and 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

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528 BJ Utrecht, The Netherlands

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/96/022/012 28 coated tablets
EU/1/96/022/027 35 coated tablets
EU/1/96/022/021 56 coated tablets
EU/1/96/022/033 70 coated tablets
EU/1/96/022/039 98 coated tablets

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

Medicinal product subject to medical prescription

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

ZYPREXA 15 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

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SN: {number}
NN: {number}
### MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

**ZYPREXA 15 mg COATED TABLETS: BLISTER FOIL LABEL**

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<td>Lot</td>
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<table>
<thead>
<tr>
<th>5. OTHER</th>
</tr>
</thead>
</table>
PARTICULARS TO APPEAR ON THE OUTER PACKAGING
CARTON OF COATED TABLETS IN BLISTERS

1. NAME OF THE MEDICINAL PRODUCT

ZYPREXA 20 mg coated tablets
olanzapine

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each coated tablet contains 20 mg olanzapine

3. LIST OF EXCIPIENTS

Contains lactose monohydrate see package leaflet for further information

4. PHARMACEUTICAL FORM AND CONTENTS

28 coated tablets
35 coated tablets
56 coated tablets
70 coated tablets
98 coated tablets

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 in the original package in order to protect from light and 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

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528 BJ Utrecht, The Netherlands

12. MARKETING AUTHORISATION NUMBER(S)

- EU/1/96/022/014 28 coated tablets
- EU/1/96/022/028 35 coated tablets
- EU/1/96/022/022 56 coated tablets
- EU/1/96/022/034 70 coated tablets
- EU/1/96/022/040 98 coated tablets

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

Medicinal product subject to medical prescription

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

ZYPREXA 20 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

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<td>ZYPREXA 20 mg COATED TABLETS: BLISTER FOIL LABEL</td>
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1. **NAME OF THE MEDICINAL PRODUCT**

   ZYPREXA 20 mg coated tablets
   Olanzapine

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

   Lilly

3. **EXPIRY DATE**

   EXP

4. **BATCH NUMBER**

   Lot

5. **OTHER**


PARTICULARS TO APPEAR ON THE OUTER PACKAGING CARTON OF VIAL OF POWDER

1. NAME OF THE MEDICINAL PRODUCT

ZYPREXA 10 mg powder for solution for injection olanzapine

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each vial contains 10 mg olanzapine. After reconstitution each ml of the solution contains 5 mg olanzapine

3. LIST OF EXCIPIENTS

Lactose monohydrate, tartaric acid, hydrochloric acid, sodium hydroxide

4. PHARMACEUTICAL FORM AND CONTENTS

Powder for solution for injection. 1 vial
Powder for solution for injection. 10 vials

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Intramuscular use. Single use vial. Read the package leaflet before 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
Use solution within 1 hour

9. SPECIAL STORAGE CONDITIONS

Do not store above 25º C. Store in original package in order to protect from light
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

Discard syringe and unused solution appropriately

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528 BJ Utrecht, The Netherlands

12. MARKETING AUTHORISATION NUMBER (S)

EU/1/96/022/016 Powder for solution for injection. 1 vial
EU/1/96/022/017 Powder for solution for injection. 10 vials

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

Medicinal product subject to medical prescription

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC: {number}
SN: {number}
NN: {number}
### MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

#### LABEL ON VIAL OF 10 mg POWDER

1. **NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION**

   ZYPREXA 10 mg olanzapine powder for solution for injection
   IM use

2. **METHOD OF ADMINISTRATION**

   Read the package leaflet before use

3. **EXPIRY DATE**

   EXP
   Use solution within 1 hour

4. **BATCH NUMBER**

   Lot

5. **CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT**

   10 mg olanzapine per vial
B. PACKAGE LEAFLET
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 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 ZYPREXA is and what it is used for
2. What you need to know before you take ZYPREXA
3. How to take ZYPREXA
4. Possible side effects
5. How to store ZYPREXA
6. Contents of the pack and other information

1. What ZYPREXA is and what it is used for

ZYPREXA contains the active substance olanzapine. ZYPREXA belongs to a group of medicines called antipsychotics and is used to treat the following conditions:
- Schizophrenia, a disease with symptoms such as hearing, seeing or sensing things which are not there, mistaken beliefs, unusual suspiciousness, and becoming withdrawn. People with this disease may also feel depressed, anxious or tense.
- Moderate to severe manic episodes, a condition with symptoms of excitement or euphoria.

ZYPREXA has been shown to prevent recurrence of these symptoms in patients with bipolar disorder whose manic episode has responded to olanzapine treatment.

2. What you need to know before you take ZYPREXA

Do not take ZYPREXA

- If you are allergic (hypersensitive) to olanzapine or any of the other ingredients of this medicine (listed in section 6). An allergic reaction may be recognised as a rash, itching, a swollen face, swollen lips or shortness of breath. If this has happened to you, tell your doctor.
- If you have been previously diagnosed with eye problems such as certain kinds of glaucoma (increased pressure in the eye).

Warnings and precautions

Talk to your doctor or pharmacist before you take ZYPREXA.
- The use of ZYPREXA in elderly patients with dementia is not recommended as it may have serious side effects.
• Medicines of this type may cause unusual movements mainly of the face or tongue. If this happens after you have been given ZYPREXA tell your doctor.
• Very rarely, medicines of this type cause a combination of fever, faster breathing, sweating, muscle stiffness and drowsiness or sleepiness. If this happens, contact your doctor at once.
• Weight gain has been seen in patients taking ZYPREXA. You and your doctor should check your weight regularly. Consider referral to a dietician or help with a diet plan if necessary.
• High blood sugar and high levels of fat (triglycerides and cholesterol) have been seen in patients taking ZYPREXA. Your doctor should do blood tests to check blood sugar and certain fat levels before you start taking ZYPREXA and regularly during treatment.
• Tell the doctor if you or someone else in your family has a history of blood clots, as medicines like these have been associated with the formation of blood clots.

If you suffer from any of the following illnesses tell your doctor as soon as possible:

• Stroke or “mini” stroke (temporary symptoms of stroke)
• Parkinson’s disease
• Prostate problems
• A blocked intestine (Paralytic ileus)
• Liver or kidney disease
• Blood disorders
• Heart disease
• Diabetes
• Seizures
• If you know that you may have salt depletion as a result of prolonged severe diarrhoea and vomiting (being sick) or usage of diuretics (water tablets)

If you suffer from dementia, you or your carer/relative should tell your doctor if you have ever had a stroke or “mini” stroke.

As a routine precaution, if you are over 65 years your blood pressure may be monitored by your doctor.

Children and adolescents
ZYPREXA is not for patients who are under 18 years.

Other medicines and ZYPREXA
Only take other medicines while you are on ZYPREXA if your doctor tells you that you can. You might feel drowsy if ZYPREXA is taken in combination with antidepressants or medicines taken for anxiety or to help you sleep (tranquillisers).

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

In particular, tell your doctor if you are taking:
• medicines for Parkinson’s disease.
• carbamazepine (an anti-epileptic and mood stabiliser), fluvoxamine (an antidepressant) or ciprofloxacin (an antibiotic) - it may be necessary to change your ZYPREXA dose.

ZYPREXA with alcohol
Do not drink any alcohol if you have been given ZYPREXA as together with alcohol it may make you feel drowsy.

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 for advice before taking this medicine. You should not be given this medicine when breast-feeding, as small amounts of ZYPREXA can pass into breast milk.
The following symptoms may occur in newborn babies, of mothers that have used ZYPREXA in the last trimester (last three months of their pregnancy): shaking, muscle stiffness and/or weakness, sleepiness, agitation, breathing problems, and difficulty in feeding. If your baby develops any of these symptoms you may need to contact your doctor.

**Driving and using machines**
There is a risk of feeling drowsy when you are given ZYPREXA. If this happens do not drive or operate any tools or machines. Tell your doctor.

**ZYPREXA contains lactose**
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 ZYPREXA

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

Your doctor will tell you how many ZYPREXA tablets to take and how long you should continue to take them. The daily dose of ZYPREXA is between 5 mg and 20 mg. Consult your doctor if your symptoms return but do not stop taking ZYPREXA unless your doctor tells you to.

You should take your ZYPREXA tablets once a day following the advice of your doctor. Try to take your tablets at the same time each day. It does not matter whether you take them with or without food. ZYPREXA coated tablets are for oral use. You should swallow the ZYPREXA tablets whole with water.

**If you take more ZYPREXA than you should**
Patients who have taken more ZYPREXA than they should have experienced the following symptoms: rapid beating of the heart, agitation/aggressiveness, problems with speech, unusual movements (especially of the face or tongue) and reduced level of consciousness. Other symptoms may be: acute confusion, seizures (epilepsy), coma, a combination of fever, faster breathing, sweating, muscle stiffness and drowsiness or sleepiness, slowing of the breathing rate, aspiration, high blood pressure or low blood pressure, abnormal rhythms of the heart. Contact your doctor or hospital straight away if you experience any of the above symptoms. Show the doctor your pack of tablets.

**If you forget to take ZYPREXA**
Take your tablets as soon as you remember. Do not take two doses in one day.

**If you stop taking ZYPREXA**
Do not stop taking your tablets just because you feel better. It is important that you carry on taking ZYPREXA for as long as your doctor tells you.

If you suddenly stop taking ZYPREXA, symptoms such as sweating, unable to sleep, tremor, anxiety or nausea and vomiting might occur. Your doctor may suggest you to reduce the dose gradually before stopping treatment.

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.

Tell your doctor immediately if you have:
• unusual movement (a common side effect that may affect up to 1 in 10 people) mainly of the face or tongue;
• blood clots in the veins (an uncommon side effect that may affect up to 1 in 100 people) especially in the legs (symptoms include swelling, pain, and redness in the leg), which may travel through blood vessels to the lungs causing chest pain and difficulty in breathing. If you notice any of these symptoms seek medical advice immediately;
• a combination of fever, faster breathing, sweating, muscle stiffness and drowsiness or sleepiness (the frequency of this side effect cannot be estimated from the available data).

Very common side effects (may affect more than 1 in 10 people) include weight gain; sleepiness; and increases in levels of prolactin in the blood. In the early stages of treatment, some people may feel dizzy or faint (with a slow heart rate), especially when getting up from a lying or sitting position. This will usually pass on its own but if it does not, tell your doctor.

Common side effects (may affect up to 1 in 10 people) include changes in the levels of some blood cells, circulating fats and early in treatment, temporary increases in liver enzymes; increases in the level of sugars in the blood and urine; increases in levels of uric acid and creatine phosphokinase in the blood; feeling more hungry; dizziness; restlessness; tremor; unusual movements (dyskinesias); constipation; dry mouth; rash; loss of strength; extreme tiredness; water retention leading to swelling of the hands, ankles or feet; fever; joint pain; and sexual dysfunctions such as decreased libido in males and females or erectile dysfunction in males.

Uncommon side effects (may affect up to 1 in 100 people) include hypersensitivity (e.g. swelling in the mouth and throat, itching, rash); diabetes or the worsening of diabetes, occasionally associated with ketoacidosis (ketones in the blood and urine) or coma; seizures, usually associated with a history of seizures (epilepsy); muscle stiffness or spasms (including eye movements); restless legs syndrome; problems with speech; slow heart rate; sensitivity to sunlight; bleeding from the nose; abdominal distension; memory loss or forgetfulness; urinary incontinence; lack of ability to urinate; hair loss; absence or decrease in menstrual periods; and changes in breasts in males and females such as an abnormal production of breast milk or abnormal growth.

Rare side effects (may affect up to 1 in 1000 people) include lowering of normal body temperature; abnormal rhythms of the heart; sudden unexplained death; inflammation of the pancreas causing severe stomach pain, fever and sickness; liver disease appearing as yellowing of the skin and white parts of the eyes; muscle disease presenting as unexplained aches and pains; and prolonged and/or painful erection.

Very rare side effects include serious allergic reactions such as Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS). DRESS appears initially as flu-like symptoms with a rash on the face and then with an extended rash, high temperature, enlarged lymph nodes, increased levels of liver enzymes seen on blood tests and an increase in a type of white blood cells (eosinophilia).

While taking olanzapine, elderly patients with dementia may suffer from stroke, pneumonia, urinary incontinence, falls, extreme tiredness, visual hallucinations, a rise in body temperature, redness of the skin and have trouble walking. Some fatal cases have been reported in this particular group of patients.

In patients with Parkinson's disease ZYPREXA may worsen the symptoms.

**Reporting of side effects**

If you get any side effects, talk to your doctor or nurse. 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 ZYPREXA**

Keep this medicine out of sight and reach of children.

Do not use this medicine after the expiry date, which is stated on the carton.

ZYPREXA should be stored in its original pack in order to protect from light and 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 to protect the environment.

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

**What ZYPREXA contains**

- The active substance is olanzapine. Each ZYPREXA tablet contains either 2.5 mg, 5 mg, 7.5 mg, 10 mg, 15 mg or 20 mg of the active substance. The exact amount is shown on your ZYPREXA tablet pack.

- The other ingredients are
  - (tablet core) lactose monohydrate, hyprolose, crospovidone, microcrystalline cellulose, magnesium stearate and
  - (tablet coating) hypromellose, titanium dioxide (E171), carnauba wax.

- In addition the different ZYPREXA tablet strengths also contain the following ingredients:

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<thead>
<tr>
<th>TABLET STRENGTH</th>
<th>OTHER INGREDIENTS</th>
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<tr>
<td>ZYPREXA 2.5 mg, 5 mg, 7.5 mg and 10 mg tablets</td>
<td>(tablet coating) shellac, macrogol, propylene glycol, polysorbate 80 and indigo carmine colour (E132), ethanol anhydrous, isopropyl alcohol, butyl alcohol, ammonium hydroxide</td>
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<tr>
<td>ZYPREXA 15 mg tablets</td>
<td>(tablet coating) triacetin and indigo carmine colour (E132)</td>
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<tr>
<td>ZYPREXA 20 mg tablets</td>
<td>(tablet coating) macrogol and synthetic red iron oxide (E172)</td>
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**What ZYPREXA looks like and contents of the pack**

ZYPREXA 2.5 mg coated tablets are white imprinted with “LILLY” and a numeric identicode “4112”.

ZYPREXA 5 mg coated tablets are white imprinted with “LILLY” and a numeric identicode “4115”.

ZYPREXA 7.5 mg coated tablets are white imprinted with “LILLY” and a numeric identicode “4116”.

ZYPREXA 10 mg coated tablets are white imprinted with “LILLY” and a numeric identicode “4117”.

ZYPREXA 15 mg coated tablets are blue.

ZYPREXA 20 mg coated tablets are pink.

ZYPREXA is available in packs containing 28, 35, 56, 70 or 98 tablets. Not all pack sizes may be marketed.

**Marketing Authorisation Holder**

Eli Lilly Nederland B.V., Papendorpseweg 83, 3528 BJ Utrecht, The Netherlands.

**Manufacturer**

Lilly S.A., Avda. de la Industria 30, 28108 Alcobendas, Madrid, Spain.

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:
<table>
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<tr>
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</tr>
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<tr>
<td>België/Belgique/Belgien</td>
<td>Eli Lilly Benelux S.A./N.V. Tél/Tel: + 32 (0)2 548 84 84</td>
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<tr>
<td>Bulgarie</td>
<td>ТП &quot;Ели Лили Недерланд&quot; Б.В. - България Тел: + 359 2 491 41 40</td>
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<tr>
<td>Česká republika</td>
<td>Eli Lilly ČR, s.r.o. Tel: + 420 234 664 111</td>
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<td>Danmark</td>
<td>Eli Lilly Danmark A/S Tlf.: + 45 45 26 60 00</td>
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<tr>
<td>Deutschland</td>
<td>Lilly Deutschland GmbH Tel: + 49 (0) 6172 273 2222</td>
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<tr>
<td>Estland</td>
<td>Eli Lilly Holdings Limited Eesti filiaal Tel: + 372 6817 280</td>
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<td>Elláda</td>
<td>ФАРМАСЕРВ-АИЛАУ А.Е.В.Е. Тηλ: + 30 210 629 4600</td>
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<tr>
<td>Espania</td>
<td>Lilly S.A. Tel: + 34 91 663 50 00</td>
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<td>Lilly France SAS Tél: + 33 (0) 1 55 49 34 34</td>
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<td>Hrvatska</td>
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<tr>
<td>Ireland</td>
<td>Eli Lilly and Company (Ireland) Limited Tel: + 353 (0) 1 661 4377</td>
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<tr>
<td>Island</td>
<td>Icepharma hf. Sími: + 354 540 8000</td>
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<tr>
<td>Italia</td>
<td>Eli Lilly Italia S.p.A. Tel: + 39 055 42571</td>
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<td>Kύπρος</td>
<td>Phadisco Ltd Τηλ: + 357 22 715000</td>
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<td>Luxembourg/Luxemburg</td>
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<td>Magyarország</td>
<td>Lilly Hungária Kft. Tel: + 36 1 328 5100</td>
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<td>Österreich</td>
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<td>Lilly Portugal Produtos Farmacêuticos, Lda Tel: + 351 21 412 66 00</td>
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<td>Slovenija</td>
<td>Eli Lilly farmacevtska družba, d.o.o. Tel: + 386 (0)1 580 00 10</td>
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<td>Slovenská republika</td>
<td>Eli Lilly Slovakia, s.r.o. Tel: + 421 220 663 111</td>
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<tr>
<td>Suomi/Finland</td>
<td>Oy Eli Lilly Finland Ab Puh/Tel: + 358 (0)9 8545 250</td>
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<tr>
<td>Sverige</td>
<td>Eli Lilly Sweden AB Tel: + 46 (0)8 7378800</td>
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<tr>
<td>United Kingdom</td>
<td>Eli Lilly and Company Limited Tel: + 44 (0) 1256 315000</td>
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This leaflet was last revised in {month XXXX}

Detailed information on this medicine is available on the European Medicines Agency web site:
http://www.ema.europa.eu
Read all of this leaflet carefully before you start using 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.
- If you get any side effects talk to your doctor or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet:
1. What ZYPREXA is and what it is used for
2. What you need to know before you are given ZYPREXA
3. How ZYPREXA is given
4. Possible side effects
5. How to store ZYPREXA
6. Contents of the pack and other information

1. What ZYPREXA is and what it is used for

ZYPREXA contains the active substance olanzapine. ZYPREXA Injection belongs to a group of medicines called antipsychotics and is used to treat symptoms of agitation and distressing behaviour that may occur in the following conditions:

- Schizophrenia, a disease with symptoms such as hearing, seeing or sensing things which are not there, mistaken beliefs, unusual suspiciousness, and becoming withdrawn. People with this disease may also feel depressed, anxious or tense.
- Mania, a condition with symptoms of excitement or euphoria.

ZYPREXA Injection is given when rapid control of agitation and distressing behaviour is needed and treatment with ZYPREXA tablets is not appropriate. Your doctor will change your treatment to ZYPREXA tablets, as soon as appropriate.

2. What you need to know before you are given ZYPREXA

You should not be given ZYPREXA

- If you are allergic (hypersensitive) to olanzapine or any of the other ingredients of this medicine (listed in section 6). An allergic reaction may be recognised as a rash, itching, a swollen face, swollen lips or shortness of breath. If this has happened to you, tell your doctor.
- If you have been previously diagnosed with eye problems such as certain kinds of glaucoma (increased pressure in the eye).

Warnings and precautions

Talk to your doctor or nurse before you are given ZYPREXA Injection

- Tell the doctor or nurse if you feel dizzy or faint after the injection. You will probably need to lie down until you feel better. The doctor or nurse may also want to measure your blood pressure and pulse.
- The use of ZYPREXA in elderly patients with dementia (confusion and memory loss) is not recommended as it may have serious side effects.
- Medicines of this type may cause unusual movements mainly of the face or tongue. If this happens after you have been given ZYPREXA, talk to your doctor.
• Very rarely, medicines of this type cause a combination of fever, faster breathing, sweating, muscle stiffness and drowsiness or sleepiness. If this happens, contact your doctor at once. No more injections will be given to you.
• Weight gain has been seen in patients taking ZYPREXA. You and your doctor should check your weight regularly. Consider referral to a dietician or help with a diet plan if necessary.
• High blood sugar and high levels of fat (triglycerides and cholesterol) have been seen in patients taking ZYPREXA. Your doctor should do blood tests to check blood sugar and certain fat levels before you start taking ZYPREXA and regularly during treatment.
• Tell the doctor if you or someone else in your family has a history of blood clots, as medicines like these have been associated with formation of blood clots.

If you suffer from any of the following illnesses tell your doctor as soon as possible:
• Stroke or “mini” stroke (temporary symptoms of stroke)
• Parkinson’s disease
• Prostate problems
• A blocked intestine (Paralytic ileus)
• Liver or kidney disease
• Blood disorders
• If you have had a recent heart attack, or have heart disease, including sick sinus syndrome, unstable angina or suffer from low blood pressure.
• Diabetes
• Seizures
• If you know that you may have salt depletion as a result of prolonged severe diarrhoea and vomiting (being sick) or usage of diuretics (water tablets)

If you suffer from dementia, you or your carer/relative should tell your doctor if you have ever had a stroke or “mini” stroke.

As a routine precaution, if you are over 65 years your doctor may monitor your blood pressure.

**Children and adolescents**
ZYPREXA is not for patients who are under 18 years.

**Other medicines and ZYPREXA**
A combination of ZYPREXA with the following medicines might make you feel drowsy: medicines taken for anxiety or to help you sleep (tranquillisers, including benzodiazepines), and antidepressants. Only take other medicines while you are on ZYPREXA if your doctor tells you that you can.

If you receive ZYPREXA injection, a benzodiazepine injection is not recommended at the same time as this may result in excessive sleepiness, may have serious effects on your heart rate or your breathing, and, in very rare cases, may result in death. If your doctor has to give a benzodiazepine injection to treat your condition, there should be at least a one hour time period after the ZYPREXA injection and you are to be monitored closely after the benzodiazepine injection is given.

Tell your doctor if you are taking or have recently taken any other medicines, including medicines obtained without a prescription. Especially tell your doctor if you are taking medicines for Parkinson’s disease.

**ZYPREXA with alcohol**
Do not drink any alcohol if you have been given ZYPREXA as together with alcohol it may make you feel drowsy.
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 for advice before being given this medicine. You should not be given this medicine when breast-feeding, as small amounts of ZYPREXA can pass into breast milk.

The following symptoms may occur in newborn babies, of mothers that have used ZYPREXA in the last trimester (last three months of their pregnancy): shaking, muscle stiffness and/or weakness, sleepiness, agitation, breathing problems, and difficulty in feeding. If your baby develops any of these symptoms you may need to contact your doctor.

Driving and using machines
There is a risk of feeling drowsy when you are given ZYPREXA. If this happens do not drive or operate any tools or machines. Tell your doctor.

3. How ZYPREXA is given
Information on reconstitution and administration is provided in a detachable section at the end of this leaflet.

Your doctor will decide how much ZYPREXA you need and how long you need it for. The dose is usually 10 mg for the first injection, but it may be less than this. Up to 20 mg in 24 hours may be given. The dose for patients aged over 65 years is 2.5 mg or 5 mg.

ZYPREXA comes as a powder. Your doctor or nurse will make it up into a solution. ZYPREXA Injection is for intramuscular use. The correct amount of solution will be injected into your muscle.

If you are given more ZYPREXA than you think you should be
Patients who have been given more ZYPREXA than they should, have experienced the following symptoms: rapid beating of the heart, agitation/aggressiveness, problems with speech, unusual movements (especially of the face or tongue) and reduced level of consciousness. Other symptoms may include: acute confusion, seizures (epilepsy), coma, a combination of fever, faster breathing, sweating, muscle stiffness and drowsiness or sleepiness, slowing of the breathing rate, aspiration, high or low blood pressure, abnormal rhythms of the heart. Tell your doctor or nurse of your concern.

Only a few doses of ZYPREXA Injection are needed. Your doctor will decide when you need a dose of ZYPREXA Injection.

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

4. Possible side effects
Like all medicines, ZYPREXA injection can cause side effects, although not everybody gets them.

Tell your doctor immediately if you have:
- unusual movement (a common side effect that may affect up to 1 in 10 people) mainly of the face or tongue;
- blood clots in the veins (an uncommon side effect that may affect up to 1 in 100 people) especially in the legs (symptoms include swelling, pain, and redness in the leg), which may travel through blood vessels to the lungs causing chest pain and difficulty in breathing. If you notice any of these symptoms seek medical advice immediately;
- a combination of fever, faster breathing, sweating, muscle stiffness and drowsiness or sleepiness (the frequency of this side effect cannot be estimated from the available data).

Common side effects (may affect up to 1 in 10 people) with ZYPREXA Injection include slower or faster heart rate; sleepiness; low blood pressure; discomfort at the site of injection.
Some people may feel dizzy or faint (with a slow heart rate) after injection, especially when getting up from a lying or sitting position. This will usually pass on its own but if it does not, tell your doctor or a nurse as soon as possible.

Uncommon side effects (may affect up to 1 in 100 people) include breathing more slowly; and abnormal rhythms of the heart, which can be serious.

In addition, the following side effects have been seen after patients have taken ZYPREXA orally.

Other very common side effects (may affect more than 1 in 10 people) include weight gain; and increases in levels of prolactin in the blood. In the early stages of treatment, some people may feel dizzy or faint (with a slow heart rate), especially when getting up from a lying or sitting position. This will usually pass on its own but if it does not, tell your doctor.

Other common side effects (may affect up to 1 in 10 people) include changes in the levels of some blood cells, circulating fats and early in treatment, temporary increases in liver enzymes; increases in the level of sugars in the blood and urine; increases in levels of uric acid and creatine phosphokinase in the blood; feeling more hungry; dizziness; restlessness; tremor; unusual movements (dyskinesias); constipation; dry mouth; rash; loss of strength; extreme tiredness; water retention leading to swelling of the hands, ankles or feet; fever; joint pain; and sexual dysfunctions such as decreased libido in males and females or erectile dysfunction in males.

Other uncommon side effects (may affect up to 1 in 100 people) include hypersensitivity (e.g. swelling in the mouth and throat, itching, rash); diabetes or the worsening of diabetes, occasionally associated with ketoacidosis (ketones in the blood and urine) or coma; seizures, usually associated with a history of seizures (epilepsy); muscle stiffness or spasms (including eye movements); restless legs syndrome; problems with speech; slow heart rate; sensitivity to sunlight; bleeding from nose; abdominal distension; memory loss or forgetfulness; urinary incontinence; lack of ability to urinate; hair loss; absence or decrease in menstrual periods; and changes in breasts in males and females such as an abnormal production of breast milk or abnormal growth.

Rare side effects (may affect up to 1 in 1000 people) include lowering of normal body temperature; abnormal rhythms of the heart; sudden unexplained death; inflammation of the pancreas causing severe stomach pain, fever and sickness; liver disease appearing as yellowing of the skin and white parts of the eyes; muscle disease presenting as unexplained aches and pains; and prolonged and/or painful erection.

Very rare side effects include serious allergic reactions such as Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS). DRESS appears initially as flu-like symptoms with a rash on the face and then with an extended rash, high temperature, enlarged lymph nodes, increased levels of liver enzymes seen on blood tests and an increase in a type of white blood cells (eosinophilia).

While taking olanzapine, elderly patients with dementia may suffer from stroke, pneumonia, urinary incontinence, falls, extreme tiredness, visual hallucinations, a rise in body temperature, redness of the skin and have trouble walking. Some fatal cases have been reported in this particular group of patients.

In patients with Parkinson's disease ZYPREXA may worsen the symptoms.

**Reporting of side effects**

If you get any side effects, talk to your doctor or nurse. 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 ZYPREXA**

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.

Do not store above 25°C. Store in original package in order to protect from light.

After ZYPREXA Injection is made into a solution, use within one hour. Do not freeze after reconstitution.

Discard any unused contents.

6. **FURTHER INFORMATION**

**What ZYPREXA Injection contains**
- The active substance is olanzapine. Each vial contains 10 mg of the active substance.
- The other ingredients are lactose monohydrate, tartaric acid, hydrochloric acid and sodium hydroxide.

**What ZYPREXA Injection looks like and contents of the pack**
ZYPREXA comes as a yellow powder in a vial. A vial of ZYPREXA can provide you with 10 mg of olanzapine. Your doctor or nurse will make it up into a solution that will be given as an injection.

ZYPREXA Injection is available in a pack containing 1 or 10 vial(s). Not all pack sizes may be marketed.

**Marketing Authorisation Holder**
Eli Lilly Nederland B.V., Papendorpseweg 83, 3528 BJ Utrecht, The Netherlands.

**Manufacturer**
Lilly S.A., Avda. de la Industria 30, 28108 Alcobendas, Madrid, Spain.

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:
This leaflet was last revised in {month XXXX}

Detailed information on this medicine is available on the European Medicines Agency web site:
http://www.ema.europa.eu
INSTRUCTIONS FOR HEALTH CARE PROFESSIONALS

Reconstitution and administration of ZYPREXA

Reconstitute ZYPREXA Powder for Solution for Injection only with water for injections.

ZYPREXA Powder for Solution for Injection must not be combined in the syringe with any commercially available medicinal products because of incompatibilities. See examples below.

Olanzapine for injection should not be combined in a syringe with haloperidol injection because the resulting low pH has been shown to degrade olanzapine over time.

Olanzapine for injection may not be combined in a syringe nor should it be used concomitantly with benzodiazepines.

Powder for Solution for Injection

Reconstitute ZYPREXA Powder for Solution for Injection using standard aseptic techniques for reconstitution of parenteral products.

1. Withdraw 2.1 ml of water for injections into a sterile syringe. Inject into a vial of ZYPREXA Powder for Solution for Injection.

2. Rotate the vial until the contents have completely dissolved, giving a yellow coloured solution. The vial contains 11.0 mg olanzapine as a solution of 5 mg/ml. If 2.0 ml solution is withdrawn, 1 mg olanzapine is retained in the vial and syringe, thus allowing delivery of 10mg olanzapine.

3. The following table provides injection volumes for delivering various doses of olanzapine:

<table>
<thead>
<tr>
<th>Dose (mg)</th>
<th>Volume of injection (ml)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>2.0</td>
</tr>
<tr>
<td>7.5</td>
<td>1.5</td>
</tr>
<tr>
<td>5</td>
<td>1.0</td>
</tr>
<tr>
<td>2.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

4. Administer the solution intramuscularly. Do not administer intravenously or subcutaneously.

5. Discard the syringe and any unused solution in accordance with appropriate clinical procedures.

6. Use the solution immediately within 1 hour of reconstitution. Do not store above 25º C. Do not freeze.

Parenteral medicines should be inspected visually for particulate matter prior to administration.