

SCHEDULING STATUS

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1. NAME OF THE MEDICINE

DYNA SERTRALINE 50 film coated tablets

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2. QUALITATIVE AND QUANTITATIVE COMPOSITION

DYNA SERTRALINE 50: Each film coated tablet contains sertraline hydrochloride equivalent to 50 mg sertraline.

DYNA SERTRALINE 100: Each film coated tablet contains sertraline hydrochloride equivalent to 100 mg sertraline.

DYNA SERTRALINE 50 and DYNA SERTRALINE 100 are sugar free.

For the full list of excipients, see section 6.1

3. PHARMACEUTICAL FORM

Film coated tablet.

DYNA SERTRALINE 50 is a blue coloured, capsule shaped, biconvex, film coated tablet, debossed with 'SER' on one side, and '50' and '10' on either side of the break-line on the other side.

DYNA SERTRALINE 100 is a yellow coloured, capsule shaped, biconvex, film coated tablet, debossed with 'SER' on one side, and '100' on the other side.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

DYNA SERTRALINE is indicated in adults for the treatment of:

- Major depressive disorders such as single episodes and recurrent depression.

- Obsessive compulsive disorder (OCD).

- Panic disorder, with or without agoraphobia.

DYNA SERTRALINE is indicated in children for the treatment of:

OCD in children aged 10 – 17 years.

Panic disorder: Panic disorder is characterised by the occurrence of unexpected panic attacks and associated concern about having additional attacks, worry about the implications or consequences of the attacks, and/or a significant change in behaviour related to the attacks.

Panic disorder is characterised by recurrent unexpected panic attacks, i.e., a discrete period of intense fear or discomfort in which four (or more) of the following symptoms develop abruptly and reach a peak within 10 minutes: palpitations, pounding heart or accelerated heart rate, sweating, trembling or shaking, sensations of shortness of breath or smothering, feeling of choking, chest pain or discomfort, nausea or abdominal distress, feeling dizzy, unsteady, light-headed or faint, derealisation (feelings of unreality) or depersonalisation (being detached from oneself), fear of losing control, fear of dying, paresthesia (numbness or tingling sensations), chills or hot flashes.

The effectiveness of DYNA SERTRALINE in long-term use, that is, for more than 12 weeks, has not been systematically evaluated. Therefore, the medical practitioner should periodically re-evaluate the long-term usefulness of the medicine for the individual patient (see section 4.2).

4.2 Posology and method of administration

Adults

Depression:

The starting dose is 50 mg daily and the usual therapeutic dose in depression is 50 mg daily. In difficult to treat patients, the dose may be titrated up to 50 mg increments at 2 weekly intervals, to 150 mg – 200 mg.

Obsessive Compulsive Disorder:

The minimum effective dose in OCD is 50 mg daily, and increases above 100 mg daily did not have any additional benefit. Full efficacy is usually seen after 2-4 weeks and even longer in OCD. Effect may however be seen within 7 days.

Panic Disorder, with or without agoraphobia:

The minimum recommended effective dose of DYNA SERTRALINE is 50 mg daily. However, therapy should commence at 25 mg daily, increasing to 50 mg/day after one week. This dosage regimen has been demonstrated to reduce the frequency of early treatment emergent side effects characteristic of panic disorder.

Special populations

Use in the elderly

No special precautions are required. The usual adult dosage is recommended.

Use in hepatic and renal impairment

(See section 4.4 – Use in patients with concomitant illness).

Paediatric population

Obsessive Compulsive Disorder:

Children and adolescents aged 13 – 17 years:

The administration of DYNA SERTRALINE to paediatric OCD patients (aged 13-17 years) should commence at 50 mg/day. Subsequent doses may be increased in case of lack of response, in 50 mg/day increments, up to 200 mg as needed. However, the generally lower body weights of children compared to adults should be taken into consideration in adjusting the dose from 50 mg, in order to avoid excessive dosing. Given the 24-hour elimination half-life of DYNA SERTRALINE, dose changes should not occur at intervals of less than 1 week.

The use of DYNA SERTRALINE in children and adolescents is not recommended, other than in children between 13 and 17 years and OCD, as safety and efficacy have not been established.

Method of administration

DYNA SERTRALINE should be given as a single daily dose, with or without food.

Discontinuation:

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

Contraindications

- Hypersensitivity to sertraline or to any of the ingredients of DYNA SERTRALINE.

- Concomitant administration with a monoamine oxidase inhibitor (MAOI) is contraindicated (see section 4.5).

- Pregnancy and lactation (see section 4.6).

- Concomitant intake of pimozide (see section 4.5).

- Severe hepatic impairment.

- Porphyrin.

- Children under the age of 18 years, except for patients with obsessive compulsive disorder aged 13-17 years old (see section 4.4).

4.4 Special warnings and precautions for use

Serotonin syndrome (SS) or neuroleptic malignant syndrome (NMS)

The development of potentially life-threatening syndromes like serotonin syndrome (SS) or neuroleptic malignant syndrome (NMS) has been reported with selective serotonin reuptake inhibitors (SSRIs), including treatment with DYNA SERTRALINE. The risk of SS or NMS with SSRIs is increased with concomitant use of other serotonergic medicines including other serotonergic antidepressants, triptans, with medicines which impair metabolism of serotonin (including MAOIs e.g., methylene blue), antipsychotics and other dopamine antagonists, and with opiate medicines. Patients should be monitored for the emergence of signs and symptoms of SS or NMS (see section 4.3).

Switching from selective serotonin re-uptake inhibitors (SSRIs), antidepressants or anti-obsessional medicines There is limited controlled experience regarding the optimal timing of switching from SSRIs, antidepressants, or anti-obsessional medicines to DYNA SERTRALINE. Care and prudent medical judgment should be exercised when switching, particularly from long-acting medicines such as fluoxetine.

Other serotonergic medicines e.g., tryptophan, fenfluramine and 5-HT agonists

Co-administration of DYNA SERTRALINE with other medicines which enhance the effects of serotonergic neurotransmission such as tryptophan, fenfluramine, 5-HT agonists, or the herbal medicine, St. John's Wort (*Hypericum perforatum*), should be undertaken with caution and avoided whenever possible, due to the potential for a pharmacodynamic interaction.

QTc Prolongation/Torsade de Pointes (TdP)

Cases of QTc prolongation and Torsade de Pointes (TdP) have been reported. The majority of reports occurred in patients with other risk factors for QTc prolongation/TdP. Therefore, DYNA SERTRALINE should be used with caution in patients with risk factors for QTc prolongation.

Activation of hypomania or mania

Manic/hypomaniac symptoms have been reported to emerge in a small proportion of patients treated with marketed antidepressant and anti-obsessional medicines, including DYNA SERTRALINE. Therefore, DYNA SERTRALINE should be used with caution in patients with a history of mania/hypomania. Close surveillance by the medical practitioner is required. DYNA SERTRALINE should be discontinued in any patient entering a manic phase.

Schizophrenia

Psychotic symptoms might become aggravated in schizophrenic patients.

Seizures

Seizures may occur with DYNA SERTRALINE therapy. DYNA SERTRALINE should be avoided in patients with unstable epilepsy. Patients with controlled epilepsy should be carefully monitored. DYNA SERTRALINE should be discontinued in any patient who develops seizures.

Suicide/suicidal thoughts/suicide attempts or clinical worsening

Patients with major depressive disorders, both adults and children, may experience worsening of their depression and/or the emergence of suicidal ideation and behaviour: whether or not they are taking antidepressant medicines. The risk may persist until significant remission occurs. A causal role, however, for DYNA SERTRALINE in inducing such behaviour has not been established. Patients being treated with DYNA SERTRALINE should, nevertheless, be observed closely for clinical worsening and suicidality, especially at the beginning of a course of therapy or at any time of dose changes, either increases or decreases.

Because of the possibility of co-morbidity between major depressive disorders and other psychiatric and non-psychiatric disorders, the same precautions observed when treating patients with major depressive disorders should be observed when treating patients with other psychiatric and non-psychiatric disorders.

The following symptoms have been reported in patients being treated with antidepressants for major depressive disorders as well as for other indications, both psychiatric and non-psychiatric: anxiety, agitation, panic attacks, insomnia, irritability, hostility (aggressiveness), impulsivity, akathisia, hypomania and mania. Although a causal link between the emergence of suicidal impulses has not been established, consideration should be given to changing the therapeutic regimen, including possibly discontinuing DYNA SERTRALINE in patients for whom such symptoms are severe, abrupt in onset, or worse than past of the patient's presenting symptoms.

If the decision is made to discontinue treatment, DYNA SERTRALINE should be tapered (see section 4.2). Prescriptions for DYNA SERTRALINE should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose.

Abnormal bleeding/Haemorrhage

There have been reports of bleeding abnormalities with SSRIs including cutaneous bleeding (ecchymoses and purpura) and other haemorrhagic events, such as gastrointestinal or gynaecological bleeding, including fatal haemorrhages. Caution is advised in patients taking SSRIs, particularly in concomitant use with medicines known to affect platelet function (e.g., anticoagulants, atypical antipsychotics and phenothiazines, most tricyclic antidepressants, acetylsalicylic acid and non-steroidal anti-inflammatory medicines (NSAIDs)) as well as in patients with a history of bleeding disorders (see section 4.5).

Postpartum haemorrhage

SSRIs/Serotonin and Norepinephrine Reuptake Inhibitors (SNRIs) may increase the risk of postpartum haemorrhage (see sections 4.4, 4.8).

Hypotaemia

Hypotaemia may occur as a result of treatment with SSRIs or SNRIs, including DYNA SERTRALINE. In many cases, hyponatraemia appears to be the result of syndrome of inappropriate antidiuretic hormone secretion (SIADH). Cases of serum sodium levels lower than 110 mmol/L have been reported.

Elderly patients may be at higher risk of developing hyponatraemia with SSRIs and SNRIs. Also, patients taking diuretics or who are otherwise volume-depleted, may be at greater risk (see below - Use in elderly). Discontinuation of DYNA SERTRALINE should be considered in patients with symptomatic hyponatraemia and appropriate medical intervention should be instituted.

Signs and symptoms of hyponatraemia include headache, difficulty concentrating, memory impairment, confusion, weakness and unsteadiness which may lead to falls. Signs and symptoms associated with more severe and/or acute cases include hallucination, seizure, coma, respiratory arrest and death.

Withdrawal symptoms seen on discontinuation of DYNA SERTRALINE treatment

Withdrawal symptoms are common when treatment with DYNA SERTRALINE is discontinued, particularly if discontinuation is abrupt. Studies indicate the incidence of reported withdrawal reactions was 23 % in those discontinuing DYNA SERTRALINE, compared to 12 % in those who continued to receive DYNA SERTRALINE treatment.

The risk of withdrawal symptoms may depend on the duration and dose of therapy and the rate of dose reduction. Dizziness, sweating, sensory disturbances (including paresthesia), sleep disturbances (including insomnia and intense dreams), agitation or anxiety, nausea and/or vomiting, tremor, confusion and headache are the most commonly reported reactions. These symptoms may be severe in some patients. They usually occur within the first few days of discontinuing treatment, but there have been reports of such symptoms in patients who have inadvertently missed a dose. Generally, these symptoms are self-limiting and may resolve within 2 weeks, though in some individuals these may be prolonged (2-3 months or more). It is therefore advised that DYNA SERTRALINE should be gradually tapered when discontinuing treatment over a period of several weeks or months, according to the patient's needs.

Akathisia/psychomotor restlessness

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

Oral anticoagulants, salicylic acid derivatives and NSAIDs:

On concomitant administration of sertraline and warfarin there was a slight, but statistically significant, increase in prothrombin time. Close monitoring of prothrombin time is thus advisable when therapy with DYNA SERTRALINE is initiated or terminated. There may potentially be an increased risk of bleeding when SSRIs are combined with other oral anticoagulants, salicylic acid derivatives and NSAIDs, atypical antipsychotics, phenothiazines and most tricyclic antidepressants (see section 4.4).

Lithium: It is recommended that plasma lithium levels be monitored following initiation of DYNA SERTRALINE therapy, so that appropriate adjustments to the lithium dose may be made, if necessary. Co-administration with lithium may lead to a higher incidence of SRT-associated side effects, resulting in an increase in tremor relative to placebo, indicating a possible pharmacodynamic interaction. Therefore, caution is recommended when co-administering DYNA SERTRALINE with medicines such as lithium, which may act via serotonergic mechanisms.

Hypoglycaemic medicines: Sertraline, as in DYNA SERTRALINE, may alter glycaemic control. Therefore, it is advisable to monitor blood glucose levels when initiating DYNA SERTRALINE for diabetic patients (see section 4.4).

Diuretics: Diuretics used concomitantly with sertraline may predispose elderly patients to hyponatraemia and SIADH (Syndrome of Inappropriate Antidiuretic Hormone).

Grapefruit juice: A study indicates that the intake of three glasses of grapefruit juice daily, increased the sertraline plasma levels by approximately 100 %. Therefore, the intake of grapefruit juice should be avoided during treatment with DYNA SERTRALINE (see section 4.4).

CYP3A4 inhibitors: Based on the interaction study with grapefruit juice, it cannot be excluded that the concomitant administration of DYNA SERTRALINE and potent CYP3A4 inhibitors, e.g., protease inhibitors, ketoconazole, itraconazole, posaconazole, voriconazole, clarithromycin, telithromycin and nefazodone, would result in even larger increases in exposure of DYNA SERTRALINE. This also concerns moderate CYP3A4 inhibitors, e.g., aprepitant, erythromycin, fluconazole, verapamil and diltiazem. The intake of potent CYP3A4 inhibitors should be avoided during treatment with DYNA SERTRALINE.

CYP2D19 inhibitors: Sertraline plasma levels are enhanced by about 50 % in poor metabolisers of CYP2C19 compared to rapid metabolisers (see Pharmacokinetic properties). Interaction with strong inhibitors of CYP2C19, e.g., omeprazole, lansoprazole, pantoprazole, rabeprazole, fluoxetine, fluvoxamine cannot be excluded.

Antivirals: Plasma concentrations of DYNA SERTRALINE may be increased by HIV protease inhibitors such as ritonavir.

No interactions reported with the following:

DYNA SERTRALINE has no effect on the beta-adrenergic blocking activity of atenolol.

No interaction of DYNA SERTRALINE 200 mg daily was observed with glibenclamide or digoxin.

Medicines metabolised by cytochrome P450 (CYP) 2D6: There is variability among antidepressants in the extent of clinically important inhibition of the medicine metabolising isoenzyme CYP 2D6 and, in formal interaction studies, chronic dosing with DYNA SERTRALINE 50 mg, daily showed minimal elevation of steady state desipramine plasma (a marker of CYP 2D6 isoenzyme activity).

Medicines metabolised by other CYP enzymes: Chronic administration of DYNA SERTRALINE 200 mg daily does not inhibit the CYP 3A/4 mediated 6- α -hydroxylation of endogenous cortisol or the metabolism of carbamazepine.

The apparent lack of clinically significant effects of the chronic administration of DYNA SERTRALINE 200 mg daily on plasma concentrations of tolbutamide, phenytoin and warfarin, suggests that DYNA SERTRALINE is not a clinically relevant inhibitor of CYP 2C9. The apparent lack of clinically significant effects of the chronic administration of DYNA SERTRALINE 200 mg daily on plasma concentrations of diazepam, suggests that DYNA SERTRALINE is not a clinically relevant inhibitor of CYP 2C19. DYNA SERTRALINE has little or no potential to inhibit CYP 1A2.

4.5 Fertility, pregnancy and lactation

Women of childbearing potential

Women of childbearing potential should employ an adequate method of contraception when taking DYNA SERTRALINE.

Pregnancy

The safety of DYNA SERTRALINE during pregnancy has not been established (see section 4.3).

Observational data indicate an increased risk (less than 2-fold) of postpartum haemorrhage following SSRI/SNRI exposure within the first year to birth (see sections 4.4, 4.8).

Breastfeeding

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4.7 Effects on ability to drive and use machines

DYNA SERTRALINE has no effect on psychomotor performance. However, patients should be cautioned accordingly when driving a car or operating machinery.

Weight loss

Significant weight loss may be an undesirable result of treatment with DYNA SERTRALINE for some patients; approximately 0.5 kg – 1.0 kg weight loss.

Weak uricosuric effect

DYNA SERTRALINE is associated with a mean decrease in serum uric acid of approximately 7 %. The clinical significance of this weak uricosuric effect is unknown.

Use in patients with concomitant illness

Caution is advised in patients with diseases or conditions that could affect metabolism or haemodynamic responses, when treated with DYNA SERTRALINE.

Myocardial infarction

DYNA SERTRALINE has not been evaluated, or used to any appreciable extent, in patients with a recent history of myocardial infarction or unstable heart disease.

Interference with cognitive and motor performance

DYNA SERTRALINE does not cause sedation and does not interfere with psychomotor performance.

Porphyria

DYNA SERTRALINE is considered to be unsafe in patients with porphyria because it might be porphyryogenic.

Paediatric population

The safety and efficacy of DYNA SERTRALINE have been established in paediatric patients (aged 13-17 years) with obsessive-compulsive disorder (OCD). The safety and efficacy in children under 18 years of age, other than those with OCD, have not been established (see section 4.3).

In children, there have been reports of hostility, suicidal ideation and self-harm.

In Major Depressive Disorder clinical trials, there were increased reports of hostility and suicide – related adverse events such as suicidal ideation and self-harm (see section 4.3).

4.5 Interaction with other medicines and other forms of interaction

Monoamine oxidase inhibitors (e.g., selegiline, moclobemide and linezolid): DYNA SERTRALINE must not be used in combination with irreversible MAOIs such as selegiline, moclobemide and linezolid.

DYNA SERTRALINE must not be initiated for at least 14 days after discontinuation of treatment with a MAOI, and must be discontinued for at least 7 days before starting treatment with a MAOI (see section 4.3).

Severe adverse reactions have been reported in patients who have recently been discontinued from a MAOI (e.g., methylene blue) and started on DYNA SERTRALINE, or have recently had DYNA SERTRALINE therapy discontinued prior to initiation of a MAOI. These reactions have included tremor, myoclonus, diaphoresis, nausea, vomiting, flushing, dizziness, and hyperthermia with features resembling neuroleptic malignant syndrome, seizures and death.

Pimozide: Increased pimozide plasma levels have been observed in a clinical study after concomitant administration of sertraline and a low single dose of pimozide (2 mg). These increased levels have not been associated with ECG-changes. The mechanism of this interaction is unknown. The concomitant administration of DYNA SERTRALINE and pimozide is contraindicated, because co-administration results in increased pimozide plasma levels, and as a consequence may increase the risk of dysrhythmias and prolongation of QT-interval associated with pimozide treatment (see section 4.3).

CNS depressants and alcohol: Concomitant use of DYNA SERTRALINE and alcohol is not recommended.

Special precautionary monitoring is advised with the following:

Protein bound medicine: DYNA SERTRALINE is highly bound to serum proteins (86 %) in the range 20 to 500 ng/mL. However, at up to 300 to 200 ng/mL concentrations, respectively, DYNA SERTRALINE and N-desmethylesthertraine do not alter the plasma protein binding of two other highly protein bound medicines, α_2 -warfarin and propafenone. However, in interaction with diazepam, tolbutamide and warfarin respectively, DYNA SERTRALINE has no significant effects on the protein binding of the respective (see Other interactions below).

Serotonergic medicines: Co-administration of DYNA SERTRALINE with other medicines which enhance serotonergic neurotransmission, such as tryptophan or fenfluramine, should be avoided due to the potential for pharmacodynamic interaction.

Caution is also advised with fentanyl (used in general anaesthesia or in the treatment of chronic pain, other serotonergic medicines (including other serotonergic antidepressants, triptans), and with other opiate medicines).

Triptans

Sumatriptan: Cases of weakness, hyperreflexia, incoordination, confusion, anxiety and agitation have been reported in association with the concomitant use of sertraline and sumatriptan. Symptoms of serotonergic syndrome may also occur with other medicines of the same class (triptans). If concomitant treatment with DYNA SERTRALINE and triptans is clinically warranted, appropriate observation of the patient is advised (see section 4.4).

Visual disturbances: Reports have emerged of high plasma drug exposure in patients using DYNA SERTRALINE. It is recommended that plasma phenytoin concentrations be monitored following initiation of DYNA SERTRALINE, with appropriate adjustments to the phenytoin dose. In addition, co-administration of phenytoin may cause a reduction of DYNA SERTRALINE plasma levels. It cannot be excluded that other CYP3A4 substrates, e.g., phenobarbital, carbamazepine, St. John's Wort (*Hypericum perforatum*), ritonavir may cause a reduction of DYNA SERTRALINE plasma levels.

Switching from other antidepressants or anti-obsessional medicines: There is limited controlled experience regarding the optimal timing of switching from other antidepressants or anti-obsessional medicines to DYNA SERTRALINE. Care and prudent medical judgment should be exercised when switching, particularly from long-acting medicines such as fluoxetine. The duration of washout period which should intervene before switching from one selective serotonin re-uptake inhibitor (SSRI) to another has not been established (see section 4.4).

St. John's Wort (*Hypericum perforatum*): Concomitant use of the herbal remedy St. John's Wort (*Hypericum perforatum*) in patients receiving SSRIs should be avoided, since there is a possibility of serotonergic potentiation.

Other interactions:

Co-administration of DYNA SERTRALINE with diazepam or tolbutamide resulted in small, statistically significant changes in some pharmacokinetic parameters. Co-administration with cimetidine caused substantial decrease in DYNA SERTRALINE clearance. The clinical significance of these changes is unknown.

Oral anticoagulants, salicylic acid derivatives and NSAIDs:

On concomitant administration of sertraline and warfarin there was a slight, but statistically significant, increase in prothrombin time. Close monitoring of prothrombin time is thus advisable when therapy with DYNA SERTRALINE is initiated or terminated. There may potentially be an increased risk of bleeding when SSRIs are combined with other oral anticoagulants, salicylic acid derivatives and NSAIDs, atypical antipsychotics, phenothiazines and most tricyclic antidepressants (see section 4.4).

Lithium: It is recommended that plasma lithium levels be monitored following initiation of DYNA SERTRALINE therapy, so that appropriate adjustments to the lithium dose may be made, if necessary. Co-administration with lithium may lead to a higher incidence of SRT-associated side effects, resulting in an increase in tremor relative to placebo, indicating a possible pharmacodynamic interaction. Therefore, caution is recommended when co-administering DYNA SERTRALINE with medicines such as lithium, which may act via serotonergic mechanisms.

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