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# CYMBALTA<sup>®</sup>

## (duloxetine hydrochloride) Delayed-release Capsules

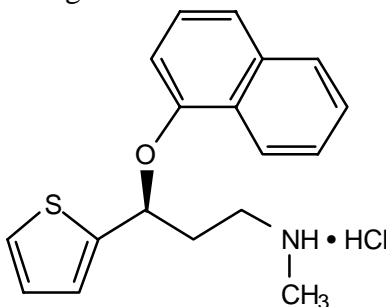
### WARNING

5 **Suicidality in Children and Adolescents** — Antidepressants increased the risk of suicidal  
6 thinking and behavior (suicidality) in short-term studies in children and adolescents with  
7 major depressive disorder (MDD) and other psychiatric disorders. Anyone considering the  
8 use of Cymbalta or any other antidepressant in a child or adolescent must balance this risk  
9 with the clinical need. Patients who are started on therapy should be observed closely for  
10 clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers  
11 should be advised of the need for close observation and communication with the prescriber.  
12 Cymbalta is not approved for use in pediatric patients. (See WARNINGS and  
13 PRECAUTIONS, Pediatric Use.)

14 Pooled analyses of short-term (4 to 16 weeks) placebo-controlled trials of 9 antidepressant  
15 drugs (SSRIs and others) in children and adolescents with major depressive  
16 disorder (MDD), obsessive compulsive disorder (OCD), or other psychiatric disorders (a  
17 total of 24 trials involving over 4400 patients) have revealed a greater risk of adverse events  
18 representing suicidal thinking or behavior (suicidality) during the first few months of  
19 treatment in those receiving antidepressants. The average risk of such events in patients  
20 receiving antidepressants was 4%, twice the placebo risk of 2%. No suicides occurred in  
21 these trials.

### DESCRIPTION

22 Cymbalta<sup>®</sup> (duloxetine hydrochloride) is a selective serotonin and norepinephrine reuptake  
23 inhibitor (SSNRI) for oral administration. Its chemical designation is (+)-(S)-N-methyl-γ-(1-  
24 naphthoxy)-2-thiophenethylamine hydrochloride. The empirical formula is C<sub>18</sub>H<sub>19</sub>NOS•HCl,  
25 which corresponds to a molecular weight of 333.88. The structural formula is:  
26



27 Duloxetine hydrochloride is a white to slightly brownish white solid, which is slightly soluble  
28 in water.

29 Each capsule contains enteric-coated pellets of 22.4, 33.7, or 67.3 mg of duloxetine  
30 hydrochloride equivalent to 20, 30, or 60 mg of duloxetine, respectively. These enteric-coated  
31 pellets are designed to prevent degradation of the drug in the acidic environment of the stomach.  
32 Inactive ingredients include FD&C Blue No. 2, gelatin, hypromellose, hydroxypropyl  
33 methylcellulose acetate succinate, sodium lauryl sulfate, sucrose, sugar spheres, talc, titanium  
34 dioxide, and triethyl citrate. The 20 and 60 mg capsules also contain iron oxide yellow.

### CLINICAL PHARMACOLOGY

#### Pharmacodynamics

36 Although the exact mechanisms of the antidepressant and central pain inhibitory action of  
37 duloxetine in humans are unknown, the antidepressant and pain inhibitory actions are believed to  
38 be related to its potentiation of serotonergic and noradrenergic activity in the CNS. Preclinical  
39

40 studies have shown that duloxetine is a potent inhibitor of neuronal serotonin and norepinephrine  
41 reuptake and a less potent inhibitor of dopamine reuptake. Duloxetine has no significant affinity  
42 for dopaminergic, adrenergic, cholinergic, histaminergic, opioid, glutamate, and GABA receptors  
43 *in vitro*. Duloxetine does not inhibit monoamine oxidase (MAO). Duloxetine undergoes  
44 extensive metabolism, but the major circulating metabolites have not been shown to contribute  
45 significantly to the pharmacologic activity of duloxetine.

## 46 **Pharmacokinetics**

47 Duloxetine has an elimination half-life of about 12 hours (range 8 to 17 hours) and its  
48 pharmacokinetics are dose proportional over the therapeutic range. Steady-state plasma  
49 concentrations are typically achieved after 3 days of dosing. Elimination of duloxetine is mainly  
50 through hepatic metabolism involving two P450 isozymes, CYP2D6 and CYP1A2.

51 Absorption and Distribution — Orally administered duloxetine hydrochloride is well absorbed.  
52 There is a median 2-hour lag until absorption begins ( $T_{lag}$ ), with maximal plasma  
53 concentrations ( $C_{max}$ ) of duloxetine occurring 6 hours post dose. Food does not affect the  $C_{max}$  of  
54 duloxetine, but delays the time to reach peak concentration from 6 to 10 hours and it marginally  
55 decreases the extent of absorption (AUC) by about 10%. There is a 3-hour delay in absorption  
56 and a one-third increase in apparent clearance of duloxetine after an evening dose as compared to  
57 a morning dose.

58 The apparent volume of distribution averages about 1640 L. Duloxetine is highly  
59 bound (>90%) to proteins in human plasma, binding primarily to albumin and  $\alpha_1$ -acid  
60 glycoprotein. The interaction between duloxetine and other highly protein bound drugs has not  
61 been fully evaluated. Plasma protein binding of duloxetine is not affected by renal or hepatic  
62 impairment.

63 Metabolism and Elimination — Biotransformation and disposition of duloxetine in humans  
64 have been determined following oral administration of  $^{14}C$ -labeled duloxetine. Duloxetine  
65 comprises about 3% of the total radiolabeled material in the plasma, indicating that it undergoes  
66 extensive metabolism to numerous metabolites. The major biotransformation pathways for  
67 duloxetine involve oxidation of the naphthyl ring followed by conjugation and further oxidation.  
68 Both CYP2D6 and CYP1A2 catalyze the oxidation of the naphthyl ring *in vitro*. Metabolites  
69 found in plasma include 4-hydroxy duloxetine glucuronide and 5-hydroxy, 6-methoxy duloxetine  
70 sulfate. Many additional metabolites have been identified in urine, some representing only minor  
71 pathways of elimination. Only trace (<1% of the dose) amounts of unchanged duloxetine are  
72 present in the urine. Most (about 70%) of the duloxetine dose appears in the urine as metabolites  
73 of duloxetine; about 20% is excreted in the feces.

## 74 **Special Populations**

75 Gender — Duloxetine's half-life is similar in men and women. Dosage adjustment based on  
76 gender is not necessary.

77 Age — The pharmacokinetics of duloxetine after a single dose of 40 mg were compared in  
78 healthy elderly females (65 to 77 years) and healthy middle-age females (32 to 50 years). There  
79 was no difference in the  $C_{max}$ , but the AUC of duloxetine was somewhat (about 25%) higher and  
80 the half-life about 4 hours longer in the elderly females. Population pharmacokinetic analyses  
81 suggest that the typical values for clearance decrease by approximately 1% for each year of age  
82 between 25 to 75 years of age; but age as a predictive factor only accounts for a small percentage  
83 of between-patient variability. Dosage adjustment based on the age of the patient is not necessary  
84 (*see* DOSAGE AND ADMINISTRATION).

85 Smoking Status — Duloxetine bioavailability (AUC) appears to be reduced by about  
86 one-third in smokers. Dosage modifications are not recommended for smokers.

87 Race — No specific pharmacokinetic study was conducted to investigate the effects of race.

88 **Renal Insufficiency** — Limited data are available on the effects of duloxetine in patients with  
89 end-stage renal disease (ESRD). After a single 60-mg dose of duloxetine,  $C_{max}$  and AUC values  
90 were approximately 100% greater in patients with end-stage renal disease receiving chronic  
91 intermittent hemodialysis than in subjects with normal renal function. The elimination half-life,  
92 however, was similar in both groups. The AUCs of the major circulating metabolites, 4-hydroxy  
93 duloxetine glucuronide and 5-hydroxy, 6-methoxy duloxetine sulfate, largely excreted in urine,  
94 were approximately 7- to 9-fold higher and would be expected to increase further with multiple  
95 dosing. For this reason, Cymbalta is not recommended for patients with end-stage renal disease  
96 (requiring dialysis) or severe renal impairment (estimated creatinine clearance [CrCl]  
97 <30 mL/min) (*see* DOSAGE AND ADMINISTRATION). Population PK analyses suggest that  
98 mild to moderate degrees of renal dysfunction (estimated CrCl 30-80 mL/min) have no  
99 significant effect on duloxetine apparent clearance.

100 **Hepatic Insufficiency** — Patients with clinically evident hepatic insufficiency have decreased  
101 duloxetine metabolism and elimination. After a single 20-mg dose of Cymbalta, 6 cirrhotic  
102 patients with moderate liver impairment (Child-Pugh Class B) had a mean plasma duloxetine  
103 clearance about 15% that of age- and gender-matched healthy subjects, with a 5-fold increase in  
104 mean exposure (AUC). Although  $C_{max}$  was similar to normals in the cirrhotic patients, the  
105 half-life was about 3 times longer (*see* PRECAUTIONS). It is recommended that duloxetine not  
106 be administered to patients with any hepatic insufficiency (*see* DOSAGE AND  
107 ADMINISTRATION).

## 108 **Drug-Drug Interactions (also see PRECAUTIONS, Drug Interactions)**

### 109 **Potential for Other Drugs to Affect Duloxetine**

110 Both CYP1A2 and CYP2D6 are responsible for duloxetine metabolism.

111 **Inhibitors of CYP1A2** — When duloxetine was co-administered with fluvoxamine, a potent  
112 CYP1A2 inhibitor, to male subjects (n=14) the AUC was increased over 5-fold, the  $C_{max}$  was  
113 increased about 2.5-fold, and duloxetine  $t_{1/2}$  was increased approximately 3-fold. Other drugs that  
114 inhibit CYP1A2 metabolism include cimetidine and quinolone antimicrobials such as  
115 ciprofloxacin and enoxacin.

116 **Inhibitors of CYP2D6** — Because CYP2D6 is involved in duloxetine metabolism, concomitant  
117 use of duloxetine with potent inhibitors of CYP2D6 would be expected to, and does, result in  
118 higher concentrations of duloxetine (*see* PRECAUTIONS, Drug Interactions).

### 119 **Studies with Benzodiazepines**

120 **Lorazepam** — Under steady-state conditions for duloxetine (60 mg Q 12 hours) and lorazepam  
121 (2 mg Q 12 hours), the pharmacokinetics of duloxetine were not affected by co-administration.

122 **Temazepam** — Under steady-state conditions for duloxetine (20 mg qhs) and temazepam  
123 (30 mg qhs), the pharmacokinetics of duloxetine were not affected by co-administration.

### 124 **Potential for Duloxetine to Affect Other Drugs**

125 **Drugs Metabolized by CYP1A2** — *In vitro* drug interaction studies demonstrate that  
126 duloxetine does not induce CYP1A2 activity. Therefore, an increase in the metabolism of  
127 CYP1A2 substrates (e.g., theophylline, caffeine) resulting from induction is not anticipated,  
128 although clinical studies of induction have not been performed. Although duloxetine is an  
129 inhibitor of the CYP1A2 isoform in *in vitro* studies, the pharmacokinetics of theophylline, a  
130 CYP1A2 substrate, were not significantly affected by co-administration with duloxetine  
131 (60 mg BID). Duloxetine is thus unlikely to have a clinically significant effect on the metabolism  
132 of CYP1A2 substrates.

133 **Drugs Metabolized by CYP2D6** — Duloxetine is a moderate inhibitor of CYP2D6 and  
134 increases the AUC and  $C_{max}$  of drugs metabolized by CYP2D6 (*see* PRECAUTIONS).

135 Therefore, co-administration of Cymbalta with other drugs that are extensively metabolized by

136 this isozyme and that have a narrow therapeutic index should be approached with caution (*see*  
137 PRECAUTIONS, Drug Interactions).

138 Drugs Metabolized by CYP2C9 — Duloxetine does not inhibit the *in vitro* enzyme activity of  
139 CYP2C9. Inhibition of the metabolism of CYP2C9 substrates is therefore not anticipated,  
140 although clinical studies have not been performed.

141 Drugs Metabolized by CYP3A — Results of *in vitro* studies demonstrate that duloxetine does  
142 not inhibit or induce CYP3A activity. Therefore, an increase or decrease in the metabolism of  
143 CYP3A substrates (e.g., oral contraceptives and other steroidal agents) resulting from induction  
144 or inhibition is not anticipated, although clinical studies have not been performed.

145 Drugs Metabolized by CYP2C19 — Results of *in vitro* studies demonstrate that duloxetine  
146 does not inhibit CYP2C19 activity at therapeutic concentrations. Inhibition of the metabolism of  
147 CYP2C19 substrates is therefore not anticipated, although clinical studies have not been  
148 performed.

149 Studies with Benzodiazepines

150 *Lorazepam* — Under steady-state conditions for duloxetine (60 mg Q 12 hours) and lorazepam  
151 (2 mg Q 12 hours), the pharmacokinetics of lorazepam were not affected by co-administration.

152 *Temazepam* — Under steady-state conditions for duloxetine (20 mg qhs) and temazepam  
153 (30 mg qhs), the pharmacokinetics of temazepam were not affected by co-administration.

154 Drugs Highly Bound to Plasma Protein — Because duloxetine is highly bound to plasma  
155 protein, administration of Cymbalta to a patient taking another drug that is highly protein bound  
156 may cause increased free concentrations of the other drug, potentially resulting in adverse events.

157

## CLINICAL STUDIES

### 158 Major Depressive Disorder

159 The efficacy of Cymbalta as a treatment for depression was established in 4 randomized,  
160 double-blind, placebo-controlled, fixed-dose studies in adult outpatients (18 to 83 years) meeting  
161 DSM-IV criteria for major depression. In 2 studies, patients were randomized to Cymbalta 60 mg  
162 once daily (N=123 and N=128, respectively) or placebo (N=122 and N=139, respectively) for  
163 9 weeks; in the third study, patients were randomized to Cymbalta 20 or 40 mg twice daily  
164 (N=86 and N=91, respectively) or placebo (N=89) for 8 weeks; in the fourth study, patients were  
165 randomized to Cymbalta 40 or 60 mg twice daily (N=95 and N=93, respectively) or  
166 placebo (N=93) for 8 weeks. There is no evidence that doses greater than 60 mg/day confer any  
167 additional benefit.

168 In all 4 studies, Cymbalta demonstrated superiority over placebo as measured by improvement  
169 in the 17-item Hamilton Depression Rating Scale (HAM-D-17) total score.

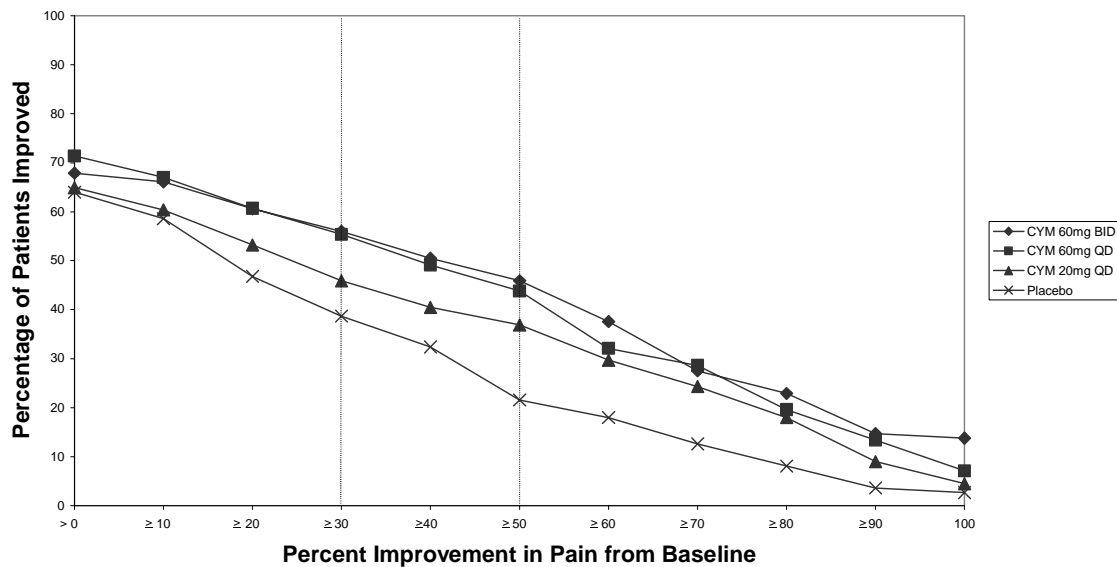
170 Analyses of the relationship between treatment outcome and age, gender, and race did not  
171 suggest any differential responsiveness on the basis of these patient characteristics.

### 172 Diabetic Peripheral Neuropathic Pain

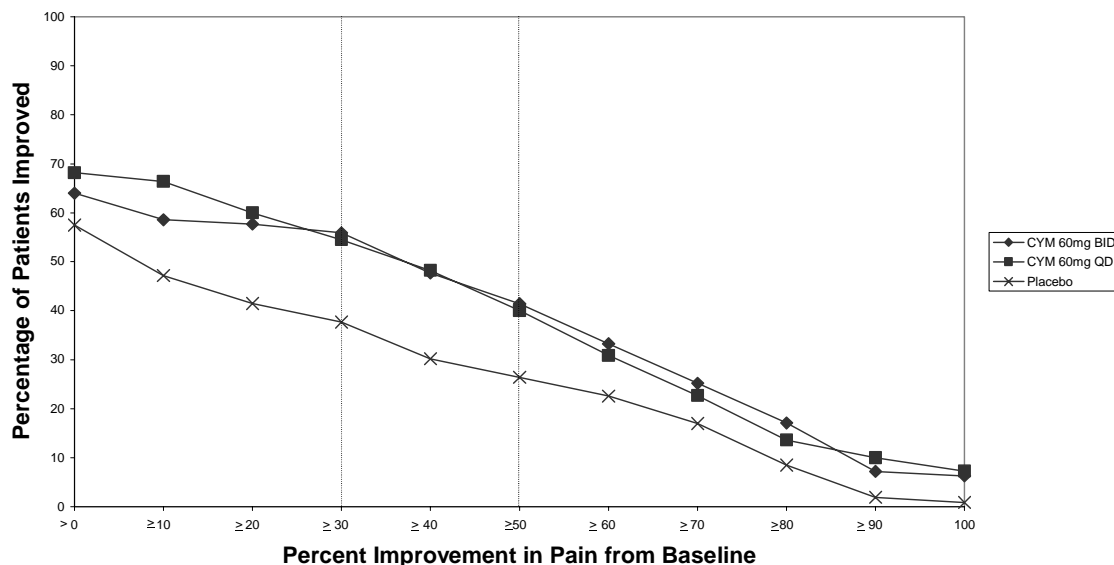
173 The efficacy of Cymbalta for the management of neuropathic pain associated with diabetic  
174 peripheral neuropathy (DPN) was established in 2 randomized, 12-week, double-blind,  
175 placebo-controlled, fixed-dose studies in adult patients having diabetic peripheral neuropathy for  
176 at least 6 months. Study 1 and 2 enrolled a total of 791 patients of whom 592 (75%) completed  
177 the studies. Patients enrolled had Type I or II diabetes mellitus with a diagnosis of painful distal  
178 symmetrical sensorimotor polyneuropathy for at least 6 months. The patients had a baseline pain  
179 score of  $\geq 4$  on an 11-point scale ranging from 0 (no pain) to 10 (worst possible pain). Patients  
180 were permitted up to 4 g of acetaminophen per day as needed for pain, in addition to Cymbalta.  
181 Patients recorded their pain daily in a diary.

182 Both studies compared Cymbalta 60 mg once daily or 60 mg twice daily with placebo. Study 1  
183 additionally compared Cymbalta 20 mg with placebo. A total of 457 patients (342 Cymbalta,

184 115 placebo) were enrolled in Study 1 and a total of 334 patients (226 Cymbalta, 108 placebo)  
 185 were enrolled in Study 2. Treatment with Cymbalta 60 mg one or two times a day statistically  
 186 significantly improved the endpoint mean pain scores from baseline and increased the proportion  
 187 of patients with at least a 50% reduction in pain score from baseline. For various degrees of  
 188 improvement in pain from baseline to study endpoint, Figures 1 and 2 show the fraction of  
 189 patients achieving that degree of improvement. The figures are cumulative, so that patients  
 190 whose change from baseline is, for example, 50%, are also included at every level of  
 191 improvement below 50%. Patients who did not complete the study were assigned 0%  
 192 improvement. Some patients experienced a decrease in pain as early as Week 1, which persisted  
 193 throughout the study.  
 194



195 **Figure 1: Percentage of Patients Achieving Various Levels of Pain Relief**  
 196 **as Measured by 24-Hour Average Pain Severity - Study 1**  
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**Figure 2: Percentage of Patients Achieving Various Levels of Pain Relief as Measured by 24-Hour Average Pain Severity - Study 2**

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## INDICATIONS AND USAGE

### 202 Major Depressive Disorder

203 Cymbalta is indicated for the treatment of major depressive disorder (MDD).

204 The efficacy of Cymbalta has been established in 8- and 9-week placebo-controlled trials of  
205 outpatients who met DSM-IV diagnostic criteria for major depressive disorder (*see CLINICAL*  
206 *STUDIES*).

207 A major depressive episode (DSM-IV) implies a prominent and relatively persistent (nearly  
208 every day for at least 2 weeks) depressed or dysphoric mood that usually interferes with daily  
209 functioning, and includes at least 5 of the following 9 symptoms: depressed mood, loss of  
210 interest in usual activities, significant change in weight and/or appetite, insomnia or  
211 hypersomnia, psychomotor agitation or retardation, increased fatigue, feelings of guilt or  
212 worthlessness, slowed thinking or impaired concentration, or a suicide attempt or suicidal  
213 ideation.

214 The effectiveness of Cymbalta in hospitalized patients with major depressive disorder has not  
215 been studied.

216 The effectiveness of Cymbalta in long-term use for major depressive disorder, that is, for more  
217 than 9 weeks, has not been systematically evaluated in controlled trials. The physician who elects  
218 to use Cymbalta for extended periods should periodically evaluate the long-term usefulness of  
219 the drug for the individual patient.

### 220 Diabetic Peripheral Neuropathic Pain

221 Cymbalta is indicated for the management of neuropathic pain associated with diabetic  
222 peripheral neuropathy (*see CLINICAL STUDIES*).

223

## CONTRAINDICATIONS

### 224 Hypersensitivity

225 Cymbalta is contraindicated in patients with a known hypersensitivity to duloxetine or any of  
226 the inactive ingredients.

## 227 Monoamine Oxidase Inhibitors

228 Concomitant use in patients taking monoamine oxidase inhibitors (MAOIs) is contraindicated  
229 (*see* WARNINGS).

## 230 Uncontrolled Narrow-Angle Glaucoma

231 In clinical trials, Cymbalta use was associated with an increased risk of mydriasis; therefore, its  
232 use should be avoided in patients with uncontrolled narrow-angle glaucoma.

### 233 WARNINGS

234 **Clinical Worsening and Suicide Risk** — Patients with major depressive disorder (MDD),  
235 both adult and pediatric, may experience worsening of their depression and/or the emergence of  
236 suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they  
237 are taking antidepressant medications, and this risk may persist until significant remission occurs.  
238 There has been a long-standing concern that antidepressants may have a role in inducing  
239 worsening of depression and the emergence of suicidality in certain patients. Antidepressants  
240 increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children  
241 and adolescents with major depressive disorder (MDD) and other psychiatric disorders.

242 Pooled analyses of short-term placebo-controlled trials of 9 antidepressant drugs (SSRIs and  
243 others) in children and adolescents with MDD, OCD, or other psychiatric disorders (a total of  
244 24 trials involving over 4400 patients) have revealed a greater risk of adverse events representing  
245 suicidal behavior or thinking (suicidality) during the first few months of treatment in those  
246 receiving antidepressants. The average risk of such events in patients receiving antidepressants  
247 was 4%, twice the placebo risk of 2%. There was considerable variation in risk among drugs, but  
248 a tendency toward an increase for almost all drugs studied. The risk of suicidality was most  
249 consistently observed in the MDD trials, but there were signals of risk arising from some trials in  
250 other psychiatric indications (obsessive compulsive disorder and social anxiety disorder) as well.  
251 **No suicides occurred in any of these trials.** It is unknown whether the suicidality risk in  
252 pediatric patients extends to longer-term use, *i.e.*, beyond several months. It is also unknown  
253 whether the suicidality risk extends to adults.

254 **All pediatric patients being treated with antidepressants for any indication should be  
255 observed closely for clinical worsening, suicidality, and unusual changes in behavior,  
256 especially during the initial few months of a course of drug therapy, or at times of dose  
257 changes, either increases or decreases. Such observation would generally include at least  
258 weekly face-to-face contact with patients or their family members or caregivers during the  
259 first 4 weeks of treatment, then every other week visits for the next 4 weeks, then at  
260 12 weeks, and as clinically indicated beyond 12 weeks. Additional contact by telephone may  
261 be appropriate between face-to-face visits.**

262 **Adults with MDD or co-morbid depression in the setting of other psychiatric illness being  
263 treated with antidepressants should be observed similarly for clinical worsening and  
264 suicidality, especially during the initial few months of a course of drug therapy, or at times  
265 of dose changes, either increases or decreases.**

266 The following symptoms, anxiety, agitation, panic attacks, insomnia, irritability, hostility,  
267 aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, and mania, have  
268 been reported in adult and pediatric patients being treated with antidepressants for major  
269 depressive disorder as well as for other indications, both psychiatric and nonpsychiatric.  
270 Although a causal link between the emergence of such symptoms and either the worsening of  
271 depression and/or the emergence of suicidal impulses has not been established, there is concern  
272 that such symptoms may represent precursors to emerging suicidality.

273 Consideration should be given to changing the therapeutic regimen, including possibly  
274 discontinuing the medication, in patients whose depression is persistently worse, or who are  
275 experiencing emergent suicidality or symptoms that might be precursors to worsening depression

276 or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the  
277 patient's presenting symptoms.

278 If the decision has been made to discontinue treatment, medication should be tapered, as  
279 rapidly as is feasible, but with recognition that abrupt discontinuation can be associated with  
280 certain symptoms (*see* PRECAUTIONS *and* DOSAGE AND ADMINISTRATION,  
281 Discontinuing Cymbalta, for a description of the risks of discontinuation of Cymbalta).

282 **Families and caregivers of pediatric patients being treated with antidepressants for major**  
283 **depressive disorder or other indications, both psychiatric and nonpsychiatric, should be**  
284 **alerted about the need to monitor patients for the emergence of agitation, irritability,**  
285 **unusual changes in behavior, and the other symptoms described above, as well as the**  
286 **emergence of suicidality, and to report such symptoms immediately to health care**  
287 **providers. Such monitoring should include daily observation by families and caregivers.**

288 Prescriptions for Cymbalta should be written for the smallest quantity of capsules consistent with  
289 good patient management, in order to reduce the risk of overdose. Families and caregivers of  
290 adults being treated for depression should be similarly advised.

291 **Screening Patients for Bipolar Disorder** — A major depressive episode may be the initial  
292 presentation of bipolar disorder. It is generally believed (though not established in controlled  
293 trials) that treating such an episode with an antidepressant alone may increase the likelihood of  
294 precipitation of a mixed/manic episode in patients at risk for bipolar disorder. Whether any of the  
295 symptoms described above represent such a conversion is unknown. However, prior to initiating  
296 treatment with an antidepressant, patients with depressive symptoms should be adequately  
297 screened to determine if they are at risk for bipolar disorder; such screening should include a  
298 detailed psychiatric history, including a family history of suicide, bipolar disorder, and  
299 depression. It should be noted that Cymbalta is not approved for use in treating bipolar  
300 depression.

301 **Monoamine Oxidase Inhibitors (MAOI)** — **In patients receiving a serotonin reuptake**  
302 **inhibitor in combination with a monoamine oxidase inhibitor, there have been reports of**  
303 **serious, sometimes fatal, reactions including hyperthermia, rigidity, myoclonus, autonomic**  
304 **instability with possible rapid fluctuations of vital signs, and mental status changes that**  
305 **include extreme agitation progressing to delirium and coma. These reactions have also been**  
306 **reported in patients who have recently discontinued serotonin reuptake inhibitors and are**  
307 **then started on an MAOI. Some cases presented with features resembling neuroleptic**  
308 **malignant syndrome. The effects of combined use of Cymbalta and MAOIs have not been**  
309 **evaluated in humans or animals. Therefore, because Cymbalta is an inhibitor of both**  
310 **serotonin and norepinephrine reuptake, it is recommended that Cymbalta not be used in**  
311 **combination with an MAOI, or within at least 14 days of discontinuing treatment with an**  
312 **MAOI. Based on the half-life of Cymbalta, at least 5 days should be allowed after stopping**  
313 **Cymbalta before starting an MAOI.**

314

## PRECAUTIONS

### 315 General

316 **Hepatotoxicity** — Cymbalta increases the risk of elevation of serum transaminase levels. Liver  
317 transaminase elevations resulted in the discontinuation of 0.4% (31/8454) of Cymbalta-treated  
318 patients. In these patients, the median time to detection of the transaminase elevation was about  
319 two months. In controlled trials in MDD, elevations of alanine transaminase (ALT) to >3 times  
320 the upper limit of normal occurred in 0.9% (8/930) of Cymbalta-treated patients and in  
321 0.3% (2/652) of placebo-treated patients. In controlled trials in DPN, elevations of ALT to  
322 >3 times the upper limit of normal occurred in 1.68% (8/477) of Cymbalta-treated patients and in  
323 0% (0/187) of placebo-treated patients. In the full cohort of placebo-controlled trials in any  
324 indication, 1% (39/3732) of Cymbalta-treated patients had a >3 times the upper limit of normal  
325 elevation of ALT compared to 0.2% (6/2568) of placebo-treated patients. In placebo-controlled



326 studies using a fixed-dose design, there was evidence of a dose-response relationship for ALT  
327 and AST elevation of >3 times the upper limit of normal and >5 times the upper limit of normal,  
328 respectively.

329 The combination of transaminase elevations and elevated bilirubin, without evidence of  
330 obstruction, is generally recognized as an important predictor of severe liver injury.  
331 Three Cymbalta patients had elevations of transaminases and bilirubin, but also had elevation of  
332 alkaline phosphatase, suggesting an obstructive process; in these patients, there was evidence of  
333 heavy alcohol use and this may have contributed to the abnormalities seen. Two placebo-treated  
334 patients also had transaminase elevations with elevated bilirubin. Because it is possible that  
335 duloxetine and alcohol may interact to cause liver injury, Cymbalta should ordinarily not be  
336 prescribed to patients with substantial alcohol use.

337 Effect on Blood Pressure — In MDD clinical trials, Cymbalta treatment was associated with  
338 mean increases in blood pressure, averaging 2 mm Hg systolic and 0.5 mm Hg diastolic and an  
339 increase in the incidence of at least one measurement of systolic blood pressure over 140 mm Hg  
340 compared to placebo.

341 Blood pressure should be measured prior to initiating treatment and periodically measured  
342 throughout treatment (*see* ADVERSE REACTIONS, Vital Sign Changes).

343 Activation of Mania/Hypomania — In placebo-controlled trials in patients with major  
344 depressive disorder, activation of mania or hypomania was reported in 0.1% (1/1139) of  
345 Cymbalta-treated patients and 0.1% (1/777) of placebo-treated patients. Activation of  
346 mania/hypomania has been reported in a small proportion of patients with mood disorders who  
347 were treated with other marketed drugs effective in the treatment of major depressive disorder.  
348 As with these other agents, Cymbalta should be used cautiously in patients with a history of  
349 mania.

350 Seizures — Cymbalta has not been systematically evaluated in patients with a seizure disorder,  
351 and such patients were excluded from clinical studies. In placebo-controlled clinical trials in  
352 patients with major depressive disorder, seizures occurred in 0.1% (1/1139) of patients treated  
353 with Cymbalta and 0% (0/777) of patients treated with placebo. In placebo-controlled clinical  
354 trials in patients with diabetic peripheral neuropathy, seizures did not occur in any patients  
355 treated with either Cymbalta or placebo. Cymbalta should be prescribed with care in patients  
356 with a history of a seizure disorder.

357 Controlled Narrow-Angle Glaucoma — In clinical trials, Cymbalta was associated with an  
358 increased risk of mydriasis; therefore, it should be used cautiously in patients with controlled  
359 narrow-angle glaucoma (*see* CONTRAINDICATIONS, Uncontrolled Narrow-Angle Glaucoma).

360 Discontinuation of Treatment with Cymbalta — Discontinuation symptoms have been  
361 systematically evaluated in patients taking Cymbalta. Following abrupt discontinuation in MDD  
362 placebo-controlled clinical trials of up to 9-weeks duration, the following symptoms occurred at  
363 a rate greater than or equal to 2% and at a significantly higher rate in Cymbalta-treated patients  
364 compared to those discontinuing from placebo: dizziness; nausea; headache; paresthesia;  
365 vomiting; irritability; and nightmare.

366 During marketing of other SSRIs and SNRIs (serotonin and norepinephrine reuptake  
367 inhibitors), there have been spontaneous reports of adverse events occurring upon  
368 discontinuation of these drugs, particularly when abrupt, including the following: dysphoric  
369 mood, irritability, agitation, dizziness, sensory disturbances (e.g., paresthesias such as electric  
370 shock sensations), anxiety, confusion, headache, lethargy, emotional lability, insomnia,  
371 hypomania, tinnitus, and seizures. Although these events are generally self-limiting, some have  
372 been reported to be severe.

373 Patients should be monitored for these symptoms when discontinuing treatment with Cymbalta.  
374 A gradual reduction in the dose rather than abrupt cessation is recommended whenever possible.  
375 If intolerable symptoms occur following a decrease in the dose or upon discontinuation of

376 treatment, then resuming the previously prescribed dose may be considered. Subsequently, the  
377 physician may continue decreasing the dose but at a more gradual rate (*see* DOSAGE AND  
378 ADMINISTRATION).

379 Use in Patients with Concomitant Illness — Clinical experience with Cymbalta in patients with  
380 concomitant systemic illnesses is limited. There is no information on the effect that alterations in  
381 gastric motility may have on the stability of Cymbalta's enteric coating. As duloxetine is rapidly  
382 hydrolyzed in acidic media to naphthol, caution is advised in using Cymbalta in patients with  
383 conditions that may slow gastric emptying (e.g., some diabetics).

384 Cymbalta has not been systematically evaluated in patients with a recent history of myocardial  
385 infarction or unstable coronary artery disease. Patients with these diagnoses were generally  
386 excluded from clinical studies during the product's premarketing testing. However, the  
387 electrocardiograms of 321 patients who received Cymbalta in MDD placebo-controlled clinical  
388 trials and had qualitatively normal ECGs at baseline were evaluated; Cymbalta was not  
389 associated with the development of clinically significant ECG abnormalities (*see* ADVERSE  
390 REACTIONS, Electrocardiogram Changes).

391 In DPN placebo-controlled clinical trials, Cymbalta-treated patients did not develop abnormal  
392 ECGs at a rate different from that in placebo-treated patients (*see* ADVERSE REACTIONS,  
393 Electrocardiogram Changes).

394 In clinical trials of Cymbalta for the management of neuropathic pain associated with diabetic  
395 peripheral neuropathy, the mean duration of diabetes was approximately 11 years, the mean  
396 baseline fasting blood glucose was 163 mg/dL, and the mean baseline hemoglobin A<sub>1c</sub> (HbA<sub>1c</sub>)  
397 was 7.8%. In these studies, small increases in fasting blood glucose were observed in  
398 Cymbalta-treated patients compared to placebo at 12 weeks and routine care at 52 weeks. The  
399 increase was similar at both time points. Overall diabetic control did not worsen as evidenced by  
400 stable HbA<sub>1c</sub> values and by no differences in incidence of serious and non-serious  
401 diabetes-related adverse events relative to placebo or routine care.

402 Increased plasma concentrations of duloxetine, and especially of its metabolites, occur in  
403 patients with end-stage renal disease (requiring dialysis). For this reason, Cymbalta is not  
404 recommended for patients with end-stage renal disease or severe renal impairment (creatinine  
405 clearance <30 mL/min) (*see* CLINICAL PHARMACOLOGY and DOSAGE AND  
406 ADMINISTRATION).

407 Markedly increased exposure to duloxetine occurs in patients with hepatic insufficiency and  
408 Cymbalta should not be administered to these patients (*see* CLINICAL PHARMACOLOGY and  
409 DOSAGE AND ADMINISTRATION).

## 410 **Information for Patients**

411 Prescribers or other health professionals should inform patients, their families, and their  
412 caregivers about the benefits and risks associated with treatment with Cymbalta and should  
413 counsel them in its appropriate use. A patient Medication Guide About Using Antidepressants in  
414 Children and Teenagers is available for Cymbalta. The prescriber or health professional should  
415 instruct patients, their families, and their caregivers to read the Medication Guide and should  
416 assist them in understanding its contents. Patients should be given the opportunity to discuss the  
417 contents of the Medication Guide and to obtain answers to any questions they may have. The  
418 complete text of the Medication Guide is reprinted at the end of this document.

419 Patients should be advised of the following issues and asked to alert their prescriber if these  
420 occur while taking Cymbalta.

421 Clinical Worsening and Suicide Risk — Patients, their families, and their caregivers should be  
422 encouraged to be alert to the emergence of anxiety, agitation, panic attacks, insomnia, irritability,  
423 hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, mania,  
424 other unusual changes in behavior, worsening of depression, and suicidal ideation, especially

425 early during antidepressant treatment and when the dose is adjusted up or down. Families and  
426 caregivers of patients should be advised to observe for the emergence of such symptoms on a  
427 day-to-day basis, since changes may be abrupt. Such symptoms should be reported to the  
428 patient's prescriber or health professional, especially if they are severe, abrupt in onset, or were  
429 not part of the patient's presenting symptoms. Symptoms such as these may be associated with an  
430 increased risk for suicidal thinking and behavior and indicate a need for very close monitoring  
431 and possibly changes in the medication.

432 Cymbalta should be swallowed whole and should not be chewed or crushed, nor should the  
433 contents be sprinkled on food or mixed with liquids. All of these might affect the enteric coating.

434 Any psychoactive drug may impair judgment, thinking, or motor skills. Although in controlled  
435 studies Cymbalta has not been shown to impair psychomotor performance, cognitive function, or  
436 memory, it may be associated with sedation. Therefore, patients should be cautioned about  
437 operating hazardous machinery including automobiles, until they are reasonably certain that  
438 Cymbalta therapy does not affect their ability to engage in such activities.

439 Patients should be advised to inform their physicians if they are taking, or plan to take, any  
440 prescription or over-the-counter medications, since there is a potential for interactions.

441 Although Cymbalta does not increase the impairment of mental and motor skills caused by  
442 alcohol, use of Cymbalta concomitantly with heavy alcohol intake may be associated with severe  
443 liver injury. For this reason, Cymbalta should ordinarily not be prescribed for patients with  
444 substantial alcohol use.

445 Patients should be advised to notify their physician if they become pregnant or intend to  
446 become pregnant during therapy.

447 Patients should be advised to notify their physician if they are breast-feeding.

448 While patients with MDD may notice improvement with Cymbalta therapy in 1 to 4 weeks,  
449 they should be advised to continue therapy as directed.

#### 450 **Laboratory Tests**

451 No specific laboratory tests are recommended.

#### 452 **Drug Interactions (also see CLINICAL PHARMACOLOGY, Drug-Drug Interactions)**

##### 453 **Potential for Other Drugs to Affect Cymbalta**

454 Both CYP1A2 and CYP2D6 are responsible for duloxetine metabolism.

455 Inhibitors of CYP1A2 — Concomitant use of duloxetine with fluvoxamine, an inhibitor of  
456 CYP1A2, results in approximately a 6-fold increase in AUC and about a 2.5-fold increase in  $C_{max}$   
457 of duloxetine. Some quinolone antibiotics would be expected to have similar effects and these  
458 combinations should be avoided.

459 Inhibitors of CYP2D6 — Because CYP2D6 is involved in duloxetine metabolism, concomitant  
460 use of duloxetine with potent inhibitors of CYP2D6 may result in higher concentrations of  
461 duloxetine. Paroxetine (20 mg QD) increased the concentration of duloxetine (40 mg QD) by  
462 about 60%, and greater degrees of inhibition are expected with higher doses of paroxetine.  
463 Similar effects would be expected with other potent CYP2D6 inhibitors (e.g., fluoxetine,  
464 quinidine).

##### 465 **Potential for Duloxetine to Affect Other Drugs**

466 Drugs Metabolized by CYP1A2 — *In vitro* drug interaction studies demonstrate that  
467 duloxetine does not induce CYP1A2 activity, and it is unlikely to have a clinically significant  
468 effect on the metabolism of CYP1A2 substrates (*see* CLINICAL PHARMACOLOGY, Drug  
469 Interactions).

470 Drugs Metabolized by CYP2D6 — Duloxetine is a moderate inhibitor of CYP2D6. When  
471 duloxetine was administered (at a dose of 60 mg BID) in conjunction with a single 50-mg dose of

472 desipramine, a CYP2D6 substrate, the AUC of desipramine increased 3-fold. Therefore,  
473 co-administration of Cymbalta with other drugs that are extensively metabolized by this isozyme  
474 and which have a narrow therapeutic index, including certain antidepressants (tricyclic  
475 antidepressants [TCAs], such as nortriptyline, amitriptyline, and imipramine), phenothiazines  
476 and Type 1C antiarrhythmics (e.g., propafenone, flecainide), should be approached with caution.  
477 Plasma TCA concentrations may need to be monitored and the dose of the TCA may need to be  
478 reduced if a TCA is co-administered with Cymbalta. Because of the risk of serious ventricular  
479 arrhythmias and sudden death potentially associated with elevated plasma levels of thioridazine,  
480 Cymbalta and thioridazine should not be co-administered.

481 Drugs Metabolized by CYP3A — Results of *in vitro* studies demonstrate that duloxetine does  
482 not inhibit or induce CYP3A activity (*see* CLINICAL PHARMACOLOGY, Drug Interactions).

483 **Cymbalta May Have a Clinically Important Interaction with the Following Other Drugs:**

484 Alcohol — When Cymbalta and ethanol were administered several hours apart so that peak  
485 concentrations of each would coincide, Cymbalta did not increase the impairment of mental and  
486 motor skills caused by alcohol.

487 In the Cymbalta clinical trials database, three Cymbalta-treated patients had liver injury as  
488 manifested by ALT and total bilirubin elevations, with evidence of obstruction. Substantial  
489 intercurrent ethanol use was present in each of these cases, and this may have contributed to the  
490 abnormalities seen (*see* PRECAUTIONS, Hepatotoxicity).

491 CNS Acting Drugs — Given the primary CNS effects of Cymbalta, it should be used with  
492 caution when it is taken in combination with or substituted for other centrally acting drugs,  
493 including those with a similar mechanism of action.

494 Potential for Interaction with Drugs that Affect Gastric Acidity — Cymbalta has an enteric  
495 coating that resists dissolution until reaching a segment of the gastrointestinal tract where the pH  
496 exceeds 5.5. In extremely acidic conditions, Cymbalta, unprotected by the enteric coating, may  
497 undergo hydrolysis to form naphthol. Caution is advised in using Cymbalta in patients with  
498 conditions that may slow gastric emptying (e.g., some diabetics). Drugs that raise the  
499 gastrointestinal pH may lead to an earlier release of duloxetine. However, co-administration of  
500 Cymbalta with aluminum- and magnesium-containing antacids (51 mEq) or Cymbalta with  
501 famotidine, had no significant effect on the rate or extent of duloxetine absorption after  
502 administration of a 40-mg oral dose. It is unknown whether the concomitant administration of  
503 proton pump inhibitors affects duloxetine absorption.

504 Monoamine Oxidase Inhibitors — *See* CONTRAINDICATIONS and WARNINGS.

## 505 **Carcinogenesis, Mutagenesis, Impairment of Fertility**

506 Carcinogenesis — Duloxetine was administered in the diet to mice and rats for 2 years.

507 In female mice receiving duloxetine at 140 mg/kg/day (11 times the maximum recommended  
508 human dose [MRHD, 60 mg/day] and 6 times the human dose of 120 mg/day on a mg/m<sup>2</sup> basis),  
509 there was an increased incidence of hepatocellular adenomas and carcinomas. The no-effect dose  
510 was 50 mg/kg/day (4 times the MRHD and 2 times the human dose of 120 mg/day on a mg/m<sup>2</sup>  
511 basis). Tumor incidence was not increased in male mice receiving duloxetine at doses up to  
512 100 mg/kg/day (8 times the MRHD and 4 times the human dose of 120 mg/day on a mg/m<sup>2</sup>  
513 basis).

514 In rats, dietary doses of duloxetine up to 27 mg/kg/day in females (4 times the MRHD and  
515 2 times the human dose of 120 mg/day on a mg/m<sup>2</sup> basis) and up to 36 mg/kg/day in males  
516 (6 times the MRHD and 3 times the human dose of 120 mg/day on a mg/m<sup>2</sup> basis) did not  
517 increase the incidence of tumors.

518 Mutagenesis — Duloxetine was not mutagenic in the *in vitro* bacterial reverse mutation  
519 assay (Ames test) and was not clastogenic in an *in vivo* chromosomal aberration test in mouse  
520 bone marrow cells. Additionally, duloxetine was not genotoxic in an *in vitro* mammalian forward

521 gene mutation assay in mouse lymphoma cells or in an *in vitro* unscheduled DNA  
522 synthesis (UDS) assay in primary rat hepatocytes, and did not induce sister chromatid exchange  
523 in Chinese hamster bone marrow *in vivo*.

524 Impairment of Fertility — Duloxetine administered orally to either male or female rats prior to  
525 and throughout mating at doses up to 45 mg/kg/day (7 times the maximum recommended human  
526 dose of 60 mg/day and 4 times the human dose of 120 mg/day on a mg/m<sup>2</sup> basis) did not alter  
527 mating or fertility.

## 528 **Pregnancy**

529 Pregnancy Category C — In animal reproduction studies, duloxetine has been shown to have  
530 adverse effects on embryo/fetal and postnatal development.

531 When duloxetine was administered orally to pregnant rats and rabbits during the period of  
532 organogenesis, there was no evidence of teratogenicity at doses up to 45 mg/kg/day (7 times the  
533 maximum recommended human dose [MRHD, 60 mg/day] and 4 times the human dose of  
534 120 mg/day on a mg/m<sup>2</sup> basis, in rat; 15 times the MRHD and 7 times the human dose of  
535 120 mg/day on a mg/m<sup>2</sup> basis in rabbit). However, fetal weights were decreased at this dose, with  
536 a no-effect dose of 10 mg/kg/day (2 times the MRHD and ≈1 times the human dose of  
537 120 mg/day on a mg/m<sup>2</sup> basis in rat; 3 times the MRHD and 2 times the human dose of  
538 120 mg/day on a mg/m<sup>2</sup> basis in rabbits).

539 When duloxetine was administered orally to pregnant rats throughout gestation and lactation,  
540 the survival of pups to 1 day postpartum and pup body weights at birth and during the lactation  
541 period were decreased at a dose of 30 mg/kg/day (5 times the MRHD and 2 times the human  
542 dose of 120 mg/day on a mg/m<sup>2</sup> basis); the no-effect dose was 10 mg/kg/day. Furthermore,  
543 behaviors consistent with increased reactivity, such as increased startle response to noise and  
544 decreased habituation of locomotor activity, were observed in pups following maternal exposure  
545 to 30 mg/kg/day. Post-weaning growth and reproductive performance of the progeny were not  
546 affected adversely by maternal duloxetine treatment.

547 There are no adequate and well-controlled studies in pregnant women; therefore, duloxetine  
548 should be used during pregnancy only if the potential benefit justifies the potential risk to the  
549 fetus.

550 Nonteratogenic Effects — Neonates exposed to SSRIs or serotonin and norepinephrine  
551 reuptake inhibitors (SNRIs), late in the third trimester have developed complications requiring  
552 prolonged hospitalization, respiratory support, and tube feeding. Such complications can arise  
553 immediately upon delivery. Reported clinical findings have included respiratory distress,  
554 cyanosis, apnea, seizures, temperature instability, feeding difficulty, vomiting, hypoglycemia,  
555 hypotonia, hypertonia, hyperreflexia, tremor, jitteriness, irritability, and constant crying. These  
556 features are consistent with either a direct toxic effect of SSRIs and SNRIs or, possibly, a drug  
557 discontinuation syndrome. It should be noted that, in some cases, the clinical picture is consistent  
558 with serotonin syndrome (*see* WARNINGS, Monoamine Oxidase Inhibitors). When treating a  
559 pregnant woman with Cymbalta during the third trimester, the physician should carefully  
560 consider the potential risks and benefits of treatment (*see* DOSAGE AND ADMINISTRATION).

## 561 **Labor and Delivery**

562 The effect of duloxetine on labor and delivery in humans is unknown. Duloxetine should be  
563 used during labor and delivery only if the potential benefit justifies the potential risk to the fetus.

## 564 **Nursing Mothers**

565 Duloxetine and/or its metabolites are excreted into the milk of lactating rats. It is unknown  
566 whether or not duloxetine and/or its metabolites are excreted into human milk, but nursing while  
567 on Cymbalta is not recommended.

**Pediatric Use**

568 Safety and effectiveness in the pediatric population have not been established (*see* BOX  
569 WARNING and WARNINGS, Clinical Worsening and Suicide Risk). Anyone considering the  
570 use of Cymbalta in a child or adolescent must balance the potential risks with the clinical need.  
571

**Geriatric Use**

572 Of the 2418 patients in clinical studies of Cymbalta for MDD, 5.9% (143) were 65 years of age  
573 or over. Of the 1074 patients in the DPN studies, 33% (357) were 65 years of age or over. No  
574 overall differences in safety or effectiveness were observed between these subjects and younger  
575 subjects, and other reported clinical experience has not identified differences in responses  
576 between the elderly and younger patients, but greater sensitivity of some older individuals cannot  
577 be ruled out.  
578

**ADVERSE REACTIONS**

579 Cymbalta has been evaluated for safety in 2418 patients diagnosed with major depressive  
580 disorder who participated in multiple-dose premarketing trials, representing 1099 patient-years of  
581 exposure. Among these 2418 Cymbalta-treated patients, 1139 patients participated in eight 8- or  
582 9-week, placebo-controlled trials at doses ranging from 40 to 120 mg/day, while the remaining  
583 1279 patients were followed for up to 1 year in an open-label safety study using flexible doses  
584 from 80 to 120 mg/day. Two placebo-controlled studies with doses of 80 and 120 mg/day had  
585 6-month maintenance extensions. Of these 2418 patients, 993 Cymbalta-treated patients were  
586 exposed for at least 180 days and 445 Cymbalta-treated patients were exposed for at least 1 year.  
587

588 Cymbalta has also been evaluated for safety in 1074 patients with diabetic peripheral  
589 neuropathy representing 472 patient-years of exposure. Among these 1074 Cymbalta-treated  
590 patients, 568 patients participated in two 12- to 13-week, placebo-controlled trials at doses  
591 ranging from 20 to 120 mg/day. An additional 449 patients were enrolled in an open-label safety  
592 study using 120 mg/day for a duration of 6 months. Another 57 patients, originally treated with  
593 placebo, were exposed to Cymbalta for up to 12 months at 60 mg twice daily in an extension  
594 phase. Among these 1074 patients, 484 had 6 months of exposure to Cymbalta, and 220 had  
595 12 months of exposure.

596 For both MDD and DPN clinical trials, adverse reactions were assessed by collecting adverse  
597 events, results of physical examinations, vital signs, weights, laboratory analyses, and ECGs.

598 Clinical investigators recorded adverse events using descriptive terminology of their own  
599 choosing. To provide a meaningful estimate of the proportion of individuals experiencing  
600 adverse events, grouping similar types of events into a smaller number of standardized event  
601 categories is necessary. In the tables and tabulations that follow, MedDRA terminology has been  
602 used to classify reported adverse events.

603 The stated frequencies of adverse events represent the proportion of individuals who  
604 experienced, at least once, a treatment-emergent adverse event of the type listed. An event was  
605 considered treatment-emergent if it occurred for the first time or worsened while receiving  
606 therapy following baseline evaluation. Events reported during the studies were not necessarily  
607 caused by the therapy, and the frequencies do not reflect investigator impression (assessment) of  
608 causality.

609 The cited figures provide the prescriber with some basis for estimating the relative contribution  
610 of drug and non-drug factors to the adverse event incidence rate in the population studied. The  
611 prescriber should be aware that the figures in the tables and tabulations cannot be used to predict  
612 the incidence of adverse events in the course of usual medical practice where patient  
613 characteristics and other factors differ from those that prevailed in the clinical trials. Similarly,  
614 the cited frequencies cannot be compared with figures obtained from other clinical investigations  
615 involving different treatments, uses, and investigators.

616 **Adverse Events Reported as Reasons for Discontinuation of Treatment in**  
617 **Placebo-Controlled Trials**

618 **Major Depressive Disorder**

619 Approximately 10% of the 1139 patients who received Cymbalta in the MDD  
620 placebo-controlled trials discontinued treatment due to an adverse event, compared with 4% of  
621 the 777 patients receiving placebo. Nausea (Cymbalta 1.4%, placebo 0.1%) was the only  
622 common adverse event reported as reason for discontinuation and considered to be drug-related  
623 (i.e., discontinuation occurring in at least 1% of the Cymbalta-treated patients and at a rate of at  
624 least twice that of placebo).

625 **Diabetic Peripheral Neuropathic Pain**

626 Approximately 14% of the 568 patients who received Cymbalta in the DPN placebo-controlled  
627 trials discontinued treatment due to an adverse event, compared with 7% of the 223 patients  
628 receiving placebo. Nausea (Cymbalta 3.5%, placebo 0.4%), dizziness (Cymbalta 1.6%,  
629 placebo 0.4%), somnolence (Cymbalta 1.6%, placebo 0%) and fatigue (Cymbalta 1.1%,  
630 placebo 0%) were the common adverse events reported as reasons for discontinuation and  
631 considered to be drug-related (i.e., discontinuation occurring in at least 1% of the  
632 Cymbalta-treated patients and at a rate of at least twice that of placebo).

633 **Adverse Events Occurring at an Incidence of 2% or More Among Cymbalta-**  
634 **Treated Patients in Placebo-Controlled Trials**

635 **Major Depressive Disorder**

636 Table 1 gives the incidence of treatment-emergent adverse events that occurred in 2% or more  
637 of patients treated with Cymbalta in the acute phase of MDD placebo-controlled trials and with  
638 an incidence greater than placebo. The most commonly observed adverse events in  
639 Cymbalta-treated MDD patients (incidence of 5% or greater and at least twice the incidence in  
640 placebo patients) were: nausea; dry mouth; constipation; decreased appetite; fatigue; somnolence;  
641 and increased sweating (*see* Table 1).  
642

**Table 1: Treatment-Emergent Adverse Events Incidence  
in MDD Placebo-Controlled Trials<sup>1</sup>**

System Organ Class / Adverse Event	Percentage of Patients Reporting Event	
	Cymbalta (N=1139)	Placebo (N=777)
<b>Gastrointestinal Disorders</b>		
Nausea	20	7
Dry mouth	15	6
Constipation	11	4
Diarrhea	8	6
Vomiting	5	3
<b>Metabolism and Nutrition Disorders</b>		
Appetite decreased <sup>2</sup>	8	2
<b>Investigations</b>		
Weight decreased	2	1
<b>General Disorders and Administration Site Conditions</b>		
Fatigue	8	4
<b>Nervous System Disorders</b>		

Dizziness	9	5
Somnolence	7	3
Tremor	3	1
<b>Skin and Subcutaneous Tissue Disorders</b>		
Sweating increased	6	2
<b>Vascular Disorders</b>		
Hot flushes	2	1
<b>Eye Disorders</b>		
Vision blurred	4	1
<b>Psychiatric Disorders</b>		
Insomnia <sup>3</sup>	11	6
Anxiety	3	2
Libido decreased	3	1
Orgasm abnormal <sup>4</sup>	3	1
<b>Reproductive System and Breast Disorders</b>		
Erectile dysfunction <sup>5</sup>	4	1
Ejaculation delayed <sup>5</sup>	3	1
Ejaculatory dysfunction <sup>5, 6</sup>	3	1

643 <sup>1</sup> Events reported by at least 2% of patients treated with Cymbalta and more often with placebo. The following  
644 events were reported by at least 2% of patients treated with Cymbalta for MDD and had an incidence equal to or  
645 less than placebo: upper abdominal pain, palpitations, dyspepsia, back pain, arthralgia, headache, pharyngitis,  
646 cough, nasopharyngitis, and upper respiratory tract infection.

647 <sup>2</sup> Term includes anorexia.

648 <sup>3</sup> Term includes middle insomnia.

649 <sup>4</sup> Term includes anorgasmia.

650 <sup>5</sup> Male patients only.

651 <sup>6</sup> Term includes ejaculation disorder and ejaculation failure.

652

### 653 **Diabetic Peripheral Neuropathic Pain**

654 Table 2 gives the incidence of treatment-emergent adverse events that occurred in 2% or more  
655 of patients treated with Cymbalta in the acute phase of DPN placebo-controlled trials (doses of  
656 20 to 120 mg/day) and with an incidence greater than placebo. The most commonly observed  
657 adverse events in Cymbalta-treated DPN patients (incidence of 5% or greater and at least  
658 twice the incidence in placebo patients) were: nausea; somnolence; dizziness; constipation; dry  
659 mouth; hyperhidrosis; decreased appetite; and asthenia (*see* Table 2).

660

**Table 2: Treatment-Emergent Adverse Events Incidence  
in DPN Placebo-Controlled Trials<sup>1</sup>**

System Organ Class / Adverse Event	Percentage of Patients Reporting Event			
	Cymbalta 60 mg BID (N=225)	Cymbalta 60 mg QD (N=228)	Cymbalta 20 mg QD (N=115)	Placebo (N=223)
<b>Gastrointestinal Disorders</b>				
Nausea	30	22	14	9
Constipation	15	11	5	3
Diarrhea	7	11	13	6



Dry mouth	12	7	5	4
Vomiting	5	5	6	4
Dyspepsia	4	4	4	3
Loose stools	2	3	2	1
<b>General Disorders and Administration Site Conditions</b>				
Fatigue	12	10	2	5
Asthenia	8	4	2	1
Pyrexia	3	1	2	1
<b>Infections and Infestations</b>				
Nasopharyngitis	9	7	9	5
<b>Metabolism and Nutrition Disorders</b>				
Decreased appetite	11	4	3	<1
Anorexia	5	3	3	<1
<b>Musculoskeletal and Connective Tissue Disorders</b>				
Muscle cramp	4	4	5	3
Myalgia	4	1	3	<1
<b>Nervous System Disorders</b>				
Somnolence	21	15	7	5
Headache	15	13	13	10
Dizziness	17	14	6	6
Tremor	5	1	0	0
<b>Psychiatric Disorders</b>				
Insomnia	13	8	9	7
<b>Renal and Urinary Disorders</b>				
Pollakiuria	5	1	3	2
<b>Reproductive System and Breast Disorders</b>				
Erectile dysfunction <sup>2</sup>	4	1	0	0
<b>Respiratory, Thoracic and Mediastinal Disorders</b>				
Cough	5	3	6	4
Pharyngolaryngeal pain	6	1	3	1
<b>Skin and Subcutaneous Tissue Disorders</b>				
Hyperhidrosis	8	6	6	2

661 <sup>1</sup> Events reported by at least 2% of patients treated with Cymbalta and more often than placebo. The following  
662 events were reported by at least 2% of patients treated with Cymbalta for DPN and had an incidence equal to or  
663 less than placebo: edema peripheral, influenza, upper respiratory tract infection, back pain, arthralgia, pain in  
664 extremity, and pruritus.

665 <sup>2</sup> Male patients only.

666  
667 Adverse events seen in men and women were generally similar except for effects on sexual  
668 function (described below). Clinical studies of Cymbalta did not suggest a difference in adverse  
669 event rates in people over or under 65 years of age. There were too few non-Caucasian patients  
670 studied to determine if these patients responded differently from Caucasian patients.

671 **Effects on Male and Female Sexual Function**

672 Although changes in sexual desire, sexual performance and sexual satisfaction often occur as  
 673 manifestations of a psychiatric disorder, they may also be a consequence of pharmacologic  
 674 treatment. Reliable estimates of the incidence and severity of untoward experiences involving  
 675 sexual desire, performance and satisfaction are difficult to obtain, however, in part because  
 676 patients and physicians may be reluctant to discuss them. Accordingly, estimates of the incidence  
 677 of untoward sexual experience and performance cited in product labeling are likely to  
 678 underestimate their actual incidence. Table 3 displays the incidence of sexual side effects  
 679 spontaneously reported by at least 2% of either male or female patients taking Cymbalta in MDD  
 680 placebo-controlled trials.  
 681

**Table 3: Treatment-Emergent Sexual Dysfunction-Related Adverse Events Incidence  
 in MDD Placebo-Controlled Trials<sup>1</sup>**

Adverse Event	Percentage of Patients Reporting Event			
	% Male Patients		% Female Patients	
	Cymbalta (N=378)	Placebo (N=247)	Cymbalta (N=761)	Placebo (N=530)
Orgasm abnormal <sup>2</sup>	4	1	2	0
Ejaculatory dysfunction <sup>3</sup>	3	1	NA	NA
Libido decreased	6	2	1	0
Erectile dysfunction	4	1	NA	NA
Ejaculation delayed	3	1	NA	NA

682 <sup>1</sup> Events reported by at least 2% of patients treated with Cymbalta and more often than with placebo.

683 <sup>2</sup> Term includes anorgasmia.

684 <sup>3</sup> Term includes ejaculation disorder and ejaculation failure.

685 NA=Not applicable.

686

687 Because adverse sexual events are presumed to be voluntarily underreported, the Arizona  
 688 Sexual Experience Scale (ASEX), a validated measure designed to identify sexual side effects,  
 689 was used prospectively in 4 MDD placebo-controlled trials. In these trials, as shown in Table 4  
 690 below, patients treated with Cymbalta experienced significantly more sexual dysfunction, as  
 691 measured by the total score on the ASEX, than did patients treated with placebo. Gender analysis  
 692 showed that this difference occurred only in males. Males treated with Cymbalta experienced  
 693 more difficulty with ability to reach orgasm (ASEX Item 4) than males treated with placebo.  
 694 Females did not experience more sexual dysfunction on Cymbalta than on placebo as measured  
 695 by ASEX total score. These studies did not, however, include an active control drug with known  
 696 effects on female sexual dysfunction, so that there is no evidence that its effects differ from other  
 697 antidepressants. Negative numbers signify an improvement from a baseline level of dysfunction,  
 698 which is commonly seen in depressed patients. Physicians should routinely inquire about  
 699 possible sexual side effects.

700

**Table 4: Mean Change in ASEX Scores by Gender in MDD Placebo-Controlled Trials**

	Male Patients		Female Patients	
	Cymbalta (n=175)	Placebo (n=83)	Cymbalta (n=241)	Placebo (n=126)
ASEX Total (Items 1-5)	0.56*	-1.07	-1.15	-1.07
Item 1 — Sex drive	-0.07	-0.12	-0.32	-0.24
Item 2 — Arousal	0.01	-0.26	-0.21	-0.18
Item 3 — Ability to achieve erection (men); Lubrication (women)	0.03	-0.25	-0.17	-0.18
Item 4 — Ease of reaching orgasm	0.40**	-0.24	-0.09	-0.13
Item 5 — Orgasm satisfaction	0.09	-0.13	-0.11	-0.17

701 n=Number of patients with non-missing change score for ASEX total.

702 \*p=0.013 versus placebo.

703 \*\*p<0.001 versus placebo.

704

### 705 **Urinary Hesitation**

706 Cymbalta is in a class of drugs known to affect urethral resistance. If symptoms of urinary  
707 hesitation develop during treatment with Cymbalta, consideration should be given to the  
708 possibility that they might be drug-related.

### 709 **Laboratory Changes**

710 Cymbalta treatment, for up to 9-weeks in MDD or 13-weeks in DPN placebo-controlled  
711 clinical trials, was associated with small mean increases from baseline to endpoint in ALT, AST,  
712 CPK, and alkaline phosphatase; infrequent, modest, transient, abnormal values were observed for  
713 these analytes in Cymbalta-treated patients when compared with placebo-treated patients (*see*  
714 PRECAUTIONS).

### 715 **Vital Sign Changes**

716 Cymbalta treatment, for up to 9-weeks in MDD placebo-controlled clinical trials of 40 to  
717 120 mg daily doses caused increases in blood pressure, averaging 2 mm Hg systolic and  
718 0.5 mm Hg diastolic compared to placebo and an increase in the incidence of at least  
719 one measurement of systolic blood pressure over 140 mm Hg (*see* PRECAUTIONS).

720 Cymbalta treatment, for up to 9-weeks in MDD placebo-controlled clinical trials and for up to  
721 13-weeks in DPN placebo-controlled trials caused a small increase in heart rate compared to  
722 placebo of about 2 beats per minute.

### 723 **Weight Changes**

724 In MDD placebo-controlled clinical trials, patients treated with Cymbalta for up to 9-weeks  
725 experienced a mean weight loss of approximately 0.5 kg, compared with a mean weight gain of  
726 approximately 0.2 kg in placebo-treated patients.

727 In DPN placebo-controlled clinical trials, patients treated with Cymbalta for up to 13-weeks  
728 experienced a mean weight loss of approximately 1.1 kg, compared with a mean weight gain of  
729 approximately 0.2 kg in placebo-treated patients.

### 730 **Electrocardiogram Changes**

731 Electrocardiograms were obtained from 321 Cymbalta-treated patients with major depressive  
732 disorder and 169 placebo-treated patients in clinical trials lasting up to 8-weeks. The  
733 rate-corrected QT (QTc) interval in Cymbalta-treated patients did not differ from that seen in

734 placebo-treated patients. No clinically significant differences were observed for QT, PR, and  
735 QRS intervals between Cymbalta-treated and placebo-treated patients.

736 Electrocardiograms were obtained from 528 Cymbalta-treated patients with DPN and  
737 205 placebo-treated patients in clinical trials lasting up to 13-weeks. The rate-corrected  
738 QT (QTc) interval in Cymbalta-treated patients did not differ from that seen in placebo-treated  
739 patients. No clinically significant differences were observed for QT, PR, QRS, or QTc  
740 measurements between Cymbalta-treated and placebo-treated patients.

#### 741 **Other Adverse Events Observed During the Premarketing Evaluation of Cymbalta** 742 **for MDD and the Pain of DPN**

743 Following is a list of modified MedDRA terms that reflect treatment-emergent adverse events  
744 as defined in the introduction to the ADVERSE REACTIONS section reported by patients  
745 treated with Cymbalta at multiple doses throughout the dose range studied during any phase of a  
746 trial within the premarketing database. The events included are those not already listed elsewhere  
747 in ADVERSE REACTIONS and not considered in the WARNINGS and PRECAUTIONS  
748 sections, that were reported with an incidence of greater than or equal to 0.05% and by more than  
749 one patient, are not common as background events and were considered possibly drug related  
750 (e.g., because of the drug's pharmacology) or potentially important.

751 It is important to emphasize that, although the events reported occurred during treatment with  
752 Cymbalta, they were not necessarily caused by it. Events are further categorized by body system  
753 and listed in order of decreasing frequency according to the following definitions: frequent  
754 adverse events are those occurring in at least 1/100 patients (only those not already listed in the  
755 tabulated results from placebo-controlled trials appear in this listing); infrequent adverse events  
756 are those occurring in 1/100 to 1/1000 patients; rare events are those occurring in fewer than  
757 1/1000 patients.

758 **Blood and Lymphatic System Disorders** — *Infrequent*: anemia, leukopenia, increased white  
759 blood cell count, lymphadenopathy, and thrombocytopenia.

760 **Cardiac Disorders** — *Infrequent*: atrial fibrillation, bundle branch block right, cardiac failure,  
761 cardiac failure congestive, coronary artery disease, and myocardial infarction.

762 **Eye Disorders** — *Infrequent*: diplopia, glaucoma, keratoconjunctivitis sicca, macular  
763 degeneration, maculopathy, photopsia, and retinal detachment.

764 **Gastrointestinal Disorders** — *Frequent*: gastritis; *Infrequent*: aphthous stomatitis, blood in  
765 stool, colitis, diverticulitis, dysphagia, esophageal stenosis acquired, gastric irritation, gastric  
766 ulcer, gingivitis, impaired gastric emptying, irritable bowel syndrome, lower abdominal pain, and  
767 melena.

768 **General Disorders and Administration Site Conditions** — *Frequent*: rigors;  
769 *Infrequent*: edema, feeling jittery, influenza-like illness, and thirst.

770 **Hepato-biliary Disorders** — *Infrequent*: hepatic steatosis.

771 **Investigations** — *Frequent*: weight increased; *Infrequent*: blood cholesterol increased, blood  
772 creatinine increased, and urine output decreased.

773 **Metabolism and Nutrition Disorders** — *Frequent*: hypoglycemia and increased appetite;  
774 *Infrequent*: dehydration, dyslipidemia, hypercholesterolemia, hyperlipidemia, and  
775 hypertriglyceridemia.

776 **Musculoskeletal and Connective Tissue Disorders** — *Infrequent*: muscular weakness.

777 **Nervous System Disorders** — *Frequent*: hypoesthesia; *Infrequent*: ataxia and dysarthria.

778 **Psychiatric Disorders** — *Frequent*: initial insomnia, irritability, lethargy, nervousness,  
779 nightmare, restlessness, and sleep disorder; *Infrequent*: completed suicide, mania, mood swings,  
780 pressure of speech, sluggishness, and suicide attempt.

781 **Renal and Urinary Disorders** — *Frequent*: dysuria; *Infrequent*: micturition urgency,  
 782 nephropathy, urinary hesitation, urinary incontinence, urinary retention, and urine flow  
 783 decreased.

784 **Respiratory, Thoracic and Mediastinal Disorders** — *Infrequent*: oropharyngeal swelling.

785 **Skin and Subcutaneous Tissue Disorders** — *Frequent*: night sweats, pruritus, rash, and skin  
 786 ulcer; *Infrequent*: acne, alopecia, cold sweat, ecchymosis, eczema, erythema, erythematous rash,  
 787 exfoliative dermatitis, face edema, hyperkeratosis, increased tendency to bruise, photosensitivity  
 788 reaction, and pruritic rash.

789 **Vascular Disorders** — *Infrequent*: hypertensive crisis, peripheral edema, and phlebitis.

## 790 **DRUG ABUSE AND DEPENDENCE**

### 791 **Controlled Substance Class**

792 Duloxetine is not a controlled substance.

### 793 **Physical and Psychological Dependence**

794 In animal studies, duloxetine did not demonstrate barbiturate-like (depressant) abuse potential.  
 795 In drug dependence studies, duloxetine did not demonstrate dependence-producing potential in  
 796 rats.

797 While Cymbalta has not been systematically studied in humans for its potential for abuse, there  
 798 was no indication of drug-seeking behavior in the clinical trials. However, it is not possible to  
 799 predict on the basis of premarketing experience the extent to which a CNS active drug will be  
 800 misused, diverted, and/or abused once marketed. Consequently, physicians should carefully  
 801 evaluate patients for a history of drug abuse and follow such patients closely, observing them for  
 802 signs of misuse or abuse of Cymbalta (e.g., development of tolerance, incrementation of dose,  
 803 drug-seeking behavior).

## 804 **OVERDOSAGE**

805 There is limited clinical experience with Cymbalta overdose in humans. In premarketing  
 806 clinical trials, as of October 2003, no cases of fatal acute overdose of Cymbalta have been  
 807 reported. Four non-fatal acute ingestions of Cymbalta (300 to 1400 mg), alone or in combination  
 808 with other drugs, have been reported.

### 809 **Management of Overdose**

810 There is no specific antidote to Cymbalta. In case of acute overdose, treatment should consist  
 811 of those general measures employed in the management of overdose with any drug.

812 An adequate airway, oxygenation, and ventilation should be assured, and cardiac rhythm and  
 813 vital signs should be monitored. Induction of emesis is not recommended. Gastric lavage with a  
 814 large-bore orogastric tube with appropriate airway protection, if needed, may be indicated if  
 815 performed soon after ingestion or in symptomatic patients.

816 Activated charcoal may be useful in limiting absorption of duloxetine from the gastrointestinal  
 817 tract. Administration of activated charcoal has been shown to decrease AUC and  $C_{max}$  by an  
 818 average of one-third, although some subjects had a limited effect of activated charcoal. Due to  
 819 the large volume of distribution of this drug, forced diuresis, dialysis, hemoperfusion, and  
 820 exchange transfusion are unlikely to be beneficial.

821 In managing overdose, the possibility of multiple drug involvement should be considered. A  
 822 specific caution involves patients who are taking or have recently taken Cymbalta and might  
 823 ingest excessive quantities of a TCA. In such a case, decreased clearance of the parent tricyclic  
 824 and/or its active metabolite may increase the possibility of clinically significant sequelae and  
 825 extend the time needed for close medical observation (*see* PRECAUTIONS, Drug Interactions).  
 826 The physician should consider contacting a poison control center for additional information on

827 the treatment of any overdose. Telephone numbers for certified poison control centers are listed  
828 in the *Physicians' Desk Reference* (PDR).

## 829 **DOSAGE AND ADMINISTRATION**

### 830 **Initial Treatment**

#### 831 **Major Depressive Disorder**

832 Cymbalta should be administered at a total dose of 40 mg/day (given as 20 mg BID) to  
833 60 mg/day (given either once a day or as 30 mg BID) without regard to meals.

834 There is no evidence that doses greater than 60 mg/day confer any additional benefits.

#### 835 **Diabetic Peripheral Neuropathic Pain**

836 Cymbalta should be administered at a total dose of 60 mg/day given once a day, without regard  
837 to meals.

838 While a 120 mg/day dose was shown to be safe and effective, there is no evidence that doses  
839 higher than 60 mg confer additional significant benefit, and the higher dose is clearly less well  
840 tolerated. For patients for whom tolerability is a concern, a lower starting dose may be  
841 considered. Since diabetes is frequently complicated by renal disease, a lower starting dose and  
842 gradual increase in dose should be considered for patients with renal impairment (*see CLINICAL*  
843 *PHARMACOLOGY, Special Populations and below*).

### 844 **Maintenance/Continuation/Extended Treatment**

#### 845 **Major Depressive Disorder**

846 It is generally agreed that acute episodes of major depression require several months or longer  
847 of sustained pharmacologic therapy. There is insufficient evidence available to answer the  
848 question of how long a patient should continue to be treated with Cymbalta. Patients should be  
849 periodically reassessed to determine the need for maintenance treatment and the appropriate dose  
850 for such treatment.

#### 851 **Diabetic Peripheral Neuropathic Pain**

852 As the progression of diabetic peripheral neuropathy is highly variable and management of pain  
853 is empirical, the effectiveness of Cymbalta must be assessed individually. Efficacy beyond  
854 12 weeks has not been systematically studied in placebo-controlled trials, but a one-year  
855 open-label safety study was conducted.

### 856 **Special Populations**

857 Dosage for Renally Impaired Patients — Cymbalta is not recommended for patients with  
858 end-stage renal disease (requiring dialysis) or in severe renal impairment (estimated creatinine  
859 clearance <30 mL/min) (*see CLINICAL PHARMACOLOGY*).

860 Dosage for Hepatically Impaired Patients — It is recommended that Cymbalta not be  
861 administered to patients with any hepatic insufficiency (*see CLINICAL PHARMACOLOGY and*  
862 *PRECAUTIONS*).

863 Dosage for Elderly Patients — No dose adjustment is recommended for elderly patients on the  
864 basis of age. As with any drug, caution should be exercised in treating the elderly. When  
865 individualizing the dosage in elderly patients, extra care should be taken when increasing the  
866 dose.

867 Treatment of Pregnant Women During the Third Trimester — Neonates exposed to SSRIs or  
868 SNRIs, late in the third trimester have developed complications requiring prolonged  
869 hospitalization, respiratory support, and tube feeding (*see PRECAUTIONS*). When treating  
870 pregnant women with Cymbalta during the third trimester, the physician should carefully  
871 consider the potential risks and benefits of treatment. The physician may consider tapering  
872 Cymbalta in the third trimester.

### 873 **Discontinuing Cymbalta**

874 Symptoms associated with discontinuation of Cymbalta and other SSRIs and SNRIs have been  
 875 reported (*see* PRECAUTIONS). Patients should be monitored for these symptoms when  
 876 discontinuing treatment. A gradual reduction in the dose rather than abrupt cessation is  
 877 recommended whenever possible. If intolerable symptoms occur following a decrease in the dose  
 878 or upon discontinuation of treatment, then resuming the previously prescribed dose may be  
 879 considered. Subsequently, the physician may continue decreasing the dose but at a more gradual  
 880 rate.

### 881 **Switching Patients to or from a Monoamine Oxidase Inhibitor**

882 At least 14 days should elapse between discontinuation of an MAOI and initiation of therapy  
 883 with Cymbalta. In addition, at least 5 days should be allowed after stopping Cymbalta before  
 884 starting an MAOI (*see* CONTRAINDICATIONS and WARNINGS).

### 885 **HOW SUPPLIED**

886 Cymbalta<sup>®</sup> (duloxetine hydrochloride) Delayed-release Capsules are available in 20, 30, and  
 887 60 mg strengths.

888 The 20 mg\* capsule has an opaque green body and cap, and is imprinted with “20 mg” on the  
 889 body and “LILLY 3235” on the cap:

890 NDC 0002-3235-60 (PU3235) — Bottles of 60  
 891 NDC 0002-3235-33 (PU3235) — (ID†100) Blisters

892 The 30 mg\* capsule has an opaque white body and opaque blue cap, and is imprinted with  
 893 “30 mg” on the body and “LILLY 3240” on the cap:

894 NDC 0002-3240-30 (PU3240) — Bottles of 30  
 895 NDC 0002-3240-90 (PU3240) — Bottles of 90  
 896 NDC 0002-3240-04 (PU3240) — Bottles of 1000  
 897 NDC 0002-3240-33 (PU3240) — (ID†100) Blisters

898 The 60 mg\* capsule has an opaque green body and opaque blue cap, and is imprinted with  
 899 “60 mg” on the body and “LILLY 3237” on the cap:

900 NDC 0002-3237-30 (PU3237) — Bottles of 30  
 901 NDC 0002-3237-90 (PU3237) — Bottles of 90  
 902 NDC 0002-3237-04 (PU3237) — Bottles of 1000  
 903 NDC 0002-3237-33 (PU3237) — (ID†100) Blisters

904  
 905 \*equivalent to duloxetine base.

906 †Identi-Dose<sup>®</sup> (unit dose medication, Lilly).

907  
 908 Store at 25°C (77°F); excursions permitted to 15-30°C (59-86°F) [see USP Controlled Room  
 909 Temperature].

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## 911 **Medication Guide**

### 912 **About Using Antidepressants in Children and Teenagers**

#### 913 **What is the most important information I should know if my child is being** 914 **prescribed an antidepressant?**

915 Parents or guardians need to think about 4 important things when their child is prescribed an  
 916 antidepressant:

917 1. There is a risk of suicidal thoughts or actions

- 918 2. How to try to prevent suicidal thoughts or actions in your child  
 919 3. You should watch for certain signs if your child is taking an antidepressant  
 920 4. There are benefits and risks when using antidepressants

## 921 **1. There is a Risk of Suicidal Thoughts or Actions**

922 Children and teenagers sometimes think about suicide, and many report trying to kill themselves.

923 Antidepressants increase suicidal thoughts and actions in some children and teenagers. But  
 924 suicidal thoughts and actions can also be caused by depression, a serious medical condition that  
 925 is commonly treated with antidepressants. Thinking about killing yourself or trying to kill  
 926 yourself is called *suicidality* or *being suicidal*.

927 A large study combined the results of 24 different studies of children and teenagers with  
 928 depression or other illnesses. In these studies, patients took either a placebo (sugar pill) or an  
 929 antidepressant for 1 to 4 months. ***No one committed suicide in these studies***, but some patients  
 930 became suicidal. On sugar pills, 2 out of every 100 became suicidal. On the antidepressants,  
 931 4 out of every 100 patients became suicidal.

932 **For some children and teenagers, the risks of suicidal actions may be especially high.** These  
 933 include patients with

- 934 • Bipolar illness (sometimes called manic-depressive illness)
- 935 • A family history of bipolar illness
- 936 • A personal or family history of attempting suicide

937 If any of these are present, make sure you tell your health care provider before your child takes an  
 938 antidepressant.

## 939 **2. How to Try to Prevent Suicidal Thoughts and Actions**

940 To try to prevent suicidal thoughts and actions in your child, pay close attention to changes in her  
 941 or his moods or actions, especially if the changes occur suddenly. Other important people in your  
 942 child's life can help by paying attention as well (e.g., your child, brothers and sisters, teachers,  
 943 and other important people). The changes to look out for are listed in Section 3, on what to watch  
 944 for.

945 Whenever an antidepressant is started or its dose is changed, pay close attention to your child.

946 After starting an antidepressant, your child should generally see his or her health care provider

- 947 • Once a week for the first 4 weeks
- 948 • Every 2 weeks for the next 4 weeks
- 949 • After taking the antidepressant for 12 weeks
- 950 • After 12 weeks, follow your health care provider's advice about how often to come back
- 951 • More often if problems or questions arise (see Section 3)

952 You should call your child's health care provider between visits if needed.



### 953 **3. You Should Watch for Certain Signs If Your Child is Taking an Antidepressant**

954 Contact your child's health care provider *right away* if your child exhibits any of the following  
955 signs for the first time, or if they seem worse, or worry you, your child, or your child's teacher:

- 956 • Thoughts about suicide or dying
- 957 • Attempts to commit suicide
- 958 • New or worse depression
- 959 • New or worse anxiety
- 960 • Feeling very agitated or restless
- 961 • Panic attacks
- 962 • Difficulty sleeping (insomnia)
- 963 • New or worse irritability
- 964 • Acting aggressive, being angry, or violent
- 965 • Acting on dangerous impulses
- 966 • An extreme increase in activity and talking
- 967 • Other unusual changes in behavior or mood

968 Never let your child stop taking an antidepressant without first talking to his or her health care  
969 provider. Stopping an antidepressant suddenly can cause other symptoms.

### 970 **4. There are Benefits and Risks When Using Antidepressants**

971 Antidepressants are used to treat depression and other illnesses. Depression and other illnesses  
972 can lead to suicide. In some children and teenagers, treatment with an antidepressant increases  
973 suicidal thinking or actions. It is important to discuss all the risks of treating depression and also  
974 the risks of not treating it. You and your child should discuss all treatment choices with your  
975 health care provider, not just the use of antidepressants.

976 Other side effects can occur with antidepressants (see section below).

977 Of all the antidepressants, only fluoxetine (Prozac<sup>®</sup>) has been FDA approved to treat pediatric  
978 depression.

979 For obsessive compulsive disorder in children and teenagers, FDA has approved only fluoxetine  
980 (Prozac<sup>®</sup>), sertraline (Zoloft<sup>®</sup>), fluvoxamine, and clomipramine (Anafranil<sup>®</sup>).

981 Your health care provider may suggest other antidepressants based on the past experience of your  
982 child or other family members.

### 983 **Is this all I need to know if my child is being prescribed an antidepressant?**

984 No. This is a warning about the risk for suicidality. Other side effects can occur with  
985 antidepressants. Be sure to ask your health care provider to explain all the side effects of the  
986 particular drug he or she is prescribing. Also ask about drugs to avoid when taking an  
987 antidepressant. Ask your health care provider or pharmacist where to find more information.

988 Prozac<sup>®</sup> is a registered trademark of Eli Lilly and Company.

989 Zoloft<sup>®</sup> is a registered trademark of Pfizer Pharmaceuticals.

990 Anafranil<sup>®</sup> is a registered trademark of Mallinckrodt Inc.

991 *This Medication Guide has been approved by the US Food and Drug Administration for*  
992 *all antidepressants.*

993 Literature revised January 26, 2005

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997 PV 3603 AMP

PRINTED IN USA

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