

**LETROZOLE - letrozole tablet**  
**INDICUS PHARMA LLC**

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

**These highlights do not include all the information needed to use letrozole tablets safely and effectively. See full prescribing information for letrozole tablets. letrozole tablets USP ,2.5 mg Initial U.S. Approval: 1997**

----- **INDICATIONS AND USAGE** -----

Letrozole tablets are an aromatase inhibitor indicated for:

- Adjuvant treatment of postmenopausal women with hormone receptor positive early breast cancer (1.1)
- Extended adjuvant treatment of postmenopausal women with early breast cancer who have received prior standard adjuvant tamoxifen therapy (1.2)
- First and second-line treatment of postmenopausal women with hormone receptor positive or unknown advanced breast cancer (1.3)

----- **DOSAGE AND ADMINISTRATION** -----

Letrozole tablets are taken orally without regard to meals (2):

- Recommended dose: 2.5.mg once daily (2.1)
- Patients with cirrhosis or severe hepatic impairment: 2.5 mg every other day (2.5, 5.3)

----- **DOSAGE FORMS AND STRENGTHS** -----

2.5 milligram tablets (3)

----- **CONTRAINDICATIONS** -----

Women of premenopausal endocrine status, including pregnant women (4)

----- **WARNINGS AND PRECAUTIONS** -----

- Decreases in bone mineral density may occur. Consider bone mineral density monitoring (5.1)
- Increases in total cholesterol may occur. Consider cholesterol monitoring. (5.2)
- Fatigue, dizziness and somnolence may occur. Exercise caution when operating machinery (5.4)

----- **ADVERSE REACTIONS** -----

The most common adverse reactions (>20%) were hot flashes, arthralgia (6.1); flushing, asthenia, edema, arthralgia, headache, dizziness, hypercholesterolemia, sweating increased, bone pain (6.2, 6.3); and musculoskeletal (6.4).

**To report SUSPECTED ADVERSE REACTIONS, contact FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch). See 17 for PATIENT COUNSELING INFORMATION.**

**Revised: 6/2011**

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

#### **1.1 Adjuvant Treatment of Early Breast Cancer**

Letrozole tablets (letrozole) are indicated for the adjuvant treatment of postmenopausal women with hormone receptor positive early breast cancer.

#### **1.2 Extended Adjuvant Treatment of Early Breast Cancer**

Letrozole tablets are indicated for the extended adjuvant treatment of early breast cancer in postmenopausal women, who have received 5 years of adjuvant tamoxifen therapy. The effectiveness of letrozole tablets in extended adjuvant treatment of early breast cancer is based on an analysis of disease-free survival in patients treated with letrozole tablets for a median of 60 months [see *Clinical Studies (14.2, 14.3)*].

### **1.3 First and Second-Line Treatment of Advanced Breast Cancer**

Letrozole tablets are indicated for first-line treatment of postmenopausal women with hormone receptor positive or unknown, locally advanced or metastatic breast cancer. Letrozole tablets are also indicated for the treatment of advanced breast cancer in postmenopausal women with disease progression following antiestrogen therapy [see *Clinical Studies (14.4, 14.5)*].

## **2 DOSAGE & ADMINISTRATION**

### **2.1 Recommended Dose**

The recommended dose of letrozole tablets is one 2.5 mg tablet administered once a day, without regard to meals.

### **2.2 Use in Adjuvant Treatment of Early Breast Cancer**

In the adjuvant setting, the optimal duration of treatment with letrozole is unknown. The planned duration of treatment in the study was 5 years with 73% of the patients having completed adjuvant therapy. Treatment should be discontinued at relapse [see *Clinical Studies (14.1)*].

### **2.3 Use in Extended Adjuvant Treatment of Early Breast Cancer**

In the extended adjuvant setting, the optimal treatment duration with letrozole tablets are not known. The planned duration of treatment in the study was 5 years. In the final updated analysis at a median follow-up of 62 months, the median treatment duration was 60 months. Seventy-one percent of patients were treated for at least 3 years and 58% of patients completed at least 4.5 years of extended adjuvant treatment. The treatment should be discontinued at tumor relapse [see *Clinical Studies (14.2)*].

### **2.4 Use in First and Second-Line Treatment of Advanced Breast Cancer**

In patients with advanced disease, treatment with letrozole tablets should continue until tumor progression is evident. [see *Clinical Studies (14.4, 14.5)*]

### **2.5 Use in Hepatic Impairment**

No dosage adjustment is recommended for patients with mild to moderate hepatic impairment, although letrozole tablets blood concentrations were modestly increased in subjects with moderate hepatic impairment due to cirrhosis. The dose of letrozole tablets in patients with cirrhosis and severe hepatic dysfunction should be reduced by 50% [see *Warnings and Precautions (5.3)*]. The recommended dose of letrozole tablets for such patients is 2.5 mg administered every other day. The effect of hepatic impairment on letrozole tablets exposure in noncirrhotic cancer patients with elevated bilirubin levels has not been determined.

### **2.6 Use in Renal Impairment**

No dosage adjustment is required for patients with renal impairment if creatinine clearance is  $\geq 10$  mL/min. [see *Clinical Pharmacology (12.3)*].

## **3 DOSAGE FORMS & STRENGTHS**

2.5 mg tablets: White to off white colored, round, biconvex, film coated tablets debossed with 'I10' on

one side and plain on other side.

## 4 CONTRAINDICATIONS

Letrozole tablets may cause fetal harm when administered to a pregnant woman and the clinical benefit to premenopausal women with breast cancer has not been demonstrated. Letrozole tablets are contraindicated in women who are or may become pregnant. If letrozole tablets are used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to a fetus. [see *Use in Specific Populations (8.1)*]

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Bone Effects

Use of letrozole tablets may cause decreases in bone mineral density (BMD). Consideration should be given to monitoring BMD. Results of a substudy to evaluate safety in the adjuvant setting comparing the effect on lumbar spine (L2L4) bone mineral density (BMD) of adjuvant treatment with letrozole to that with tamoxifen showed at 24 months a median decrease in lumbar spine BMD of 4.1% in the letrozole arm compared to a median increase of 0.3% in the tamoxifen arm (difference = 4.4%) (P<0.0001) [see *Adverse Reactions (6.1)*].

Updated results from the BMD sub-study demonstrated that at 2 years patients receiving letrozole had a median decrease from baseline of 3.8% in hip BMD compared to a median decrease of 2.0% in the placebo group. The changes from baseline in lumbar spine BMD in letrozole and placebo treated groups were not statistically different. [see *Adverse Reactions (6.2)*].

In the adjuvant trial the incidence of bone fractures at any time after randomization was 13.8% for letrozole and 10.5% for tamoxifen. The incidence of osteoporosis was 5.1% for letrozole and 2.7% for tamoxifen [See *Adverse Reactions (6.1)*]. In the extended adjuvant trial the incidence of bone fractures at any time after randomization was 13.3% for letrozole and 7.8% for placebo. The incidence of new osteoporosis was 14.5% for letrozole and 7.8% for placebo [See *Adverse Reactions (6.3)*].

### 5.2 Cholesterol

Consideration should be given to monitoring serum cholesterol. In the adjuvant trial hypercholesterolemia was reported in 52.3% of letrozole patients and 28.6% of tamoxifen patients. CTC grade 3-4 hypercholesterolemia was reported in 0.4% of letrozole patients and 0.1% of tamoxifen patients. Also in the adjuvant setting, an increase of  $\geq 1.5$  X ULN in total cholesterol (generally non-fasting) was observed in patients on monotherapy who had baseline total serum cholesterol within the normal range (i.e.,  $\leq 1.5$  X ULN) in 151/1843 (8.2%) on letrozole vs 57/1840 (3.2%). Lipid lowering medications were required for 25% of patients on letrozole and 16% on tamoxifen [See *Adverse Reactions (6.1)*].

### 5.3 Hepatic Impairment

Subjects with cirrhosis and severe hepatic impairment who were dosed with 2.5 mg of letrozole tablets experienced approximately twice the exposure to letrozole tablets as healthy volunteers with normal liver function. Therefore, a dose reduction is recommended for this patient population. The effect of hepatic impairment on letrozole tablets exposure in cancer patients with elevated bilirubin levels has not been determined. [see *Dosage and Administration (2.5)*].

### 5.4 Fatigue and Dizziness

Because fatigue, dizziness, and somnolence have been reported with the use of letrozole tablets, caution is advised when driving or using machinery until it is known how the patient reacts to letrozole tablets use.

## 5.5 Laboratory Test Abnormalities

No dose-related effect of letrozole tablets on any hematologic or clinical chemistry parameter was evident. Moderate decreases in lymphocyte counts, of uncertain clinical significance, were observed in some patients receiving letrozole tablets, 2.5 mg. This depression was transient in about half of those affected. Two patients on letrozole tablets developed thrombocytopenia; relationship to the study drug was unclear. Patient withdrawal due to laboratory abnormalities, whether related to study treatment or not, was infrequent.

## 6 ADVERSE REACTIONS

The most serious adverse reactions from the use of letrozole tablets are:

- Bone effects [see Warnings and Precautions(5.1)]
- Increases in cholesterol [see Warnings and Precautions(5.2)]

Because clinical trials are not conducted under widely varying conditions, adverse reactions rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

### 6.1 Adjuvant Treatment of Early Breast Cancer

The median duration of adjuvant treatment was 60 months and the median duration of follow-up for safety was 73 months for patients receiving letrozole tablets and tamoxifen.

Certain adverse reactions were prospectively specified for analysis, based on the known pharmacologic properties and side effect profiles of the two drugs.

Adverse reactions were analyzed irrespective of whether a symptom was present or absent at baseline. Most adverse reactions reported (approximately 75% of patients reporting 1 or more AE) were Grade 1 and Grade 2 applying the Common Toxicity Criteria Version 2.0/ Common Terminology Criteria for Adverse Events, version 3.0. Table 1 describes adverse reactions (Grades 1-4) irrespective of relationship to study treatment in the adjuvant trial for the monotherapy arms analysis (safety population).

**Table 1: Patients with Adverse Reactions (CTC Grades 1-4, Irrespective of Relationship to Study Drug) in the Adjuvant Study–Monotherapy Arms Analysis (Median Follow-up 73 Months; Median Treatment 60 Months)**

Adverse Reaction	Grades 1-4				Grades 3-4			
	Letrozole tablets N=3975 n (%)		tamoxifen N=3988 n (%)		Letrozole tablets N=3975 n (%)		Tamoxifen N=3988 n (%)	
Pts with any adverse event	2310	(94.4)	2214	(90.5)	635	(25.9)	604	(24.7)
Hypercholesterolemia	1280	(52.3)	700	(28.26)	11	(0.4)	6	(0.2)
Hot Flashes/Flushes	821	(33.5)	929	(38.5)	0	-	0	-
Arthralgia/Arthritis	618	(25.2)	501	(20.4)	85	(3.5)	50	(2.0)
Night Sweats	557	(14.6)	426	(17.4)	0	-	0	-
Bone Fractures <sup>2</sup>	338	(13.8)	257	(10.5)	-	-	-	-
Weight Increase	317	(12.9)	378	(15.4)	27	(1.1)	39	(1.6)

Nausea	283	(11.6)	277	(11.3)	6	(0.2)	9	(0.4)
Bone Fractures <sup>1</sup>	247	(10.1)	174	(7.1)	-	-	-	-
Fatigue (Lethargy, Malaise, Asthenia)	235	(9.6)	250	(10.2)	6	(0.2)	7	(0.3)
Myalgia	217	(8.9)	212	(8.7)	18	(0.7)	14	(0.6)
Edema	164	(6.7)	160	(6.5)	3	(0.1)	1	(<0.1)
Weight Decrease	140	(5.7)	129	(5.3)	8	(0.3)	5	(0.2)
Vaginal Bleeding	128	(5.2)	320	(13.1)	1	(<0.1)	8	(0.3)
Back pain	125	(5.1)	136	(5.6)	7	(0.3)	11	(0.4)
Osteoporosis NOS	124	(5.1)	66	(2.7)	10	(0.4)	5	(0.2)
Bone pain	123	(5.0)	109	(4.5)	6	(0.2)	4	(0.2)
Depression	119	(4.9)	114	(4.7)	16	(0.7)	14	(0.6)
Vaginal Irritation	111	(4.5)	77	(3.1)	2	(<0.1)	2	(<0.1)
Headedness	105	(4.3)	94	(3.8)	9	(0.4)	5	(0.2)
Pain in extremity	103	(4.2)	79	(3.2)	6	(0.2)	4	(0.2)
Osteopenia	87	(3.6)	74	(3.0)	0	-	2	(<0.1)
Dizziness/Light-Headedness	84	(3.4)	84	(3.4)	1	(<0.1)	6	(0.2)
Alopecia	83	(3.4)	84	(3.4)	0	-	0	-
Vomiting	80	(3.3)	80	(3.3)	3	(0.1)	5	(0.2)
Cataract	49	(2.0)	54	(2.2)	16	(0.7)	17	(0.7)
Constipation	49	(2.0)	71	(2.9)	3	(0.1)	1	(<0.1)
Breast pain	37	(1.5)	43	(1.8)	1	(<0.1)	0	-
Anorexia	20	(0.8)	20	(0.8)	1	(<0.1)	1	(<0.1)
Endometrial Hyperplasia/ Cancer <sup>2,3</sup>	11/1909	(0.6)	70/1943	(3.6)	-	-	-	-
Endometrial Proliferation Disorder	10	(0.3)	71	(1.8)	0	-	14	(0.6)
Endometrial Hyperplasia/ Cancer <sup>1,3</sup>	6/1909	(0.3)	57/1943	(2.9)	-	-	-	-
Other Endometrial Disorders	2	(<0.1)	3	(0.1)	0	-	0	-
Myocardial Infarction <sup>1</sup>	24	(0.1)	12	(0.5)	-	-	-	-

Myocardial Infarction <sup>2</sup>	37	(1.5)	25	(1.0)	-	-	-	-
Cerebrovascular Accident <sup>1</sup>	52	(2.1)	46	(1.9)	-	-	-	-
Cerebrovascular Accident <sup>2</sup>	70	(2.9)	63	(2.6)	-	-	-	-
Angina <sup>1</sup>	26	(1.1)	24	(1.0)	-	-	-	-
Angina <sup>2</sup>	32	(1.3)	31	(1.3)	-	-	-	-
Thromboembolic Event <sup>1</sup>	51	(2.1)	89	(3.6)	-	-	-	-
Thromboembolic Event <sup>2</sup>	71	(2.9)	111	(4.5)	-	-	-	-
Other Cerebrovascular <sup>1</sup>	260	(10.6)	256	(10.5)	-	-	-	-
Other Cerebrovascular <sup>2</sup>	312	(12.7)	337	(13.8)	-	-	-	-
Second Malignancies <sup>1</sup>	53	(2.2)	78	(3.2)	-	-	-	-
Second Malignancies <sup>2</sup>	102	(4.2)	119	(4.9)	-	-	-	-

<sup>1</sup> During study treatment, based on Safety Monotherapy population

<sup>2</sup> Any time after randomization, including post treatment follow-up

<sup>3</sup> Excluding women who had undergone hysterectomy before study entry

Note: Cardiovascular (including cerebrovascular and thromboembolic), skeletal and urogenital/endometrial events and second malignancies were collected life-long. All of these events were assumed to be of CTC grade 3-5 and were not individually graded.

When considering all grades, during study treatment, a higher incidence of events was seen for letrozole tablets regarding fractures (10.1% vs 7.1%), myocardial infarctions (1.0% vs 0.5%), and arthralgia (25.2% vs 20.4%) (letrozole tablets vs tamoxifen respectively). A higher incidence was seen for tamoxifen regarding thromboembolic events (2.1% vs 3.6%), endometrial cancer (0.3% vs 2.9%), and endometrial proliferative disorders (0.3% vs 1.8%) (letrozole tablets vs tamoxifen respectively).

At a median follow up of 73 months, a higher incidence of events was seen for letrozole tablets (13.8%) than for tamoxifen (10.5%) regarding fractures. A higher incidence was seen for tamoxifen compared to letrozole tablets regarding thromboembolic events (4.5% vs 2.9%), and endometrial hyperplasia or cancer (2.9% vs 0.4%) (tamoxifen vs letrozole tablets, respectively).

Bone Study: Results of a phase 3 safety trial in 262 post menopausal women with resected receptor positive early breast cancer in the adjuvant setting comparing the effect on lumbar spine (L2-L4) bone mineral density (BMD) of adjuvant treatment with letrozole to that with tamoxifen showed at 24 months a median decrease in lumbar spine BMD of 4.1% in the letrozole arm compared to a median increase of 0.3% in the tamoxifen arm (difference = 4.4%) (P<0.0001). No patients with a normal BMD at baseline became osteoporotic over the 2 years and only 1 patient with osteopenia at baseline (T score of -1.9) developed osteoporosis during the treatment period (assessment by central review). The results for total hip BMD were similar, although the differences between the two treatments were less pronounced. During the 2 year period, fractures were reported by 4 of 103 patients (4%) in the letrozole arm, and 6 of 97 patients (6%) in the tamoxifen arm

Lipid Study: In a phase 3 safety trial in 262 post menopausal women with resected receptor positive

early breast cancer at 24 months comparing the effects on lipid profiles of adjuvant letrozole to tamoxifen, 12% of patients on letrozole had at least one total cholesterol value of a higher CTCAE grade than at baseline compared with 4% of patients on tamoxifen.

## 6.2 Extended Adjuvant Treatment of Early Breast Cancer, Median Treatment Duration of 24 Months

The median duration of extended adjuvant treatment was 24 months and the median duration of follow-up for safety was 28 months for patients receiving letrozole tablets and placebo.

Table 2 describes the adverse reactions occurring at a frequency of at least 5% in any treatment group during treatment. Most adverse reactions reported were Grade 1 and Grade 2 based on the Common Toxicity Criteria Version 2.0. In the extended adjuvant setting, the reported drug-related adverse reactions that were significantly different from placebo were hot flashes, arthralgia/arthritis, and myalgia.

	Number (%) of Patients with Grade 1-4 Adverse Reaction		Number (%) of Patients with Grade 3-4 Adverse Reaction	
	Letrozole tablets N=2563	Placebo N=2573	Letrozole tablets N=2563	Placebo N=2573
<b>Any Adverse Reaction</b>	2232 (87.1)	2174 (84.5)	419 (16.3)	389 (15.1)
<b>Vascular Disorders</b>	1375 (53.6)	1230 (47.8)	59 (2.3)	74 (2.9)
Flushing	1273 (49.7)	1114 (43.3)	3 (0.1)	0 -
<b>General Disorders</b>	1154 (45)	1090 (42.4)	30 (1.2)	28 (1.1)
Asthenia	862 (33.6)	826 (32.1)	16 (0.6)	7 (0.3)
Edema NOS	471 (18.4)	416 (16.2)	4 (0.2)	3 (0.1)
<b>Musculoskeletal Disorders</b>	978 (38.2)	836 (32.5)	71 (2.8)	50 (1.9)
Arthralgia	565 (22)	465 (18.1)	25 (1)	20 (0.8)
Arthritis NOS	173 (6.7)	124 (4.8)	10 (0.4)	5 (0.2)
Myalgia	171 (6.7)	122 (4.7)	8 (0.3)	6 (0.2)
Back Pain	129 (5)	112 (4.4)	8 (0.3)	7 (0.3)
<b>Nervous System Disorders</b>	863 (33.7)	819 (31.8)	65 (2.5)	58 (2.3)
Headache	516 (20.1)	508 (19.7)	18 (0.7)	17 (0.7)
Dizziness	363 (14.2)	342 (13.3)	9 (0.4)	6 (0.2)
<b>Skin Disorders</b>	830 (32.4)	787 (30.6)	17 (0.7)	16 (0.6)
Sweating Increased	619 (24.2)	577 (22.4)	1 (<0.1)	0 -
<b>Gastrointestinal Disorders</b>	725 (28.3)	731 (28.4)	43 (1.7)	42 (1.6)
Constipation	290 (11.3)	304 (11.8)	6 (0.2)	2 (<0.1)
Nausea	221 (8.6)	212 (8.2)	3 (0.1)	10 (0.4)
Diarrhea NOS	128 (5)	143 (5.6)	12 (0.5)	8 (0.3)
<b>Metabolic Disorders</b>	551 (21.5)	537 (20.9)	24 (0.9)	32 (1.2)
Hypercholesterolemia	401 (15.6)	398 (15.5)	2 (<0.1)	5 (0.2)
<b>Reproductive Disorders</b>	303 (11.8)	357 (13.9)	9 (0.4)	8 (0.3)
Vaginal Hemorrhage	123 (4.8)	171 (6.6)	2 (<0.1)	5 (0.2)
Vulvovaginal Dryness	137 (5.3)	127 (4.9)	0 -	0 -
<b>Psychiatric Disorders</b>	320 (12.5)	276 (10.7)	21 (0.8)	16 (0.6)
Insomnia	149 (5.8)	120 (4.7)	2 (<0.1)	2 (<0.1)
<b>Respiratory Disorders</b>	279 (10.9)	260 (10.1)	30 (1.2)	28 (1.1)
Dyspnea	140 (5.5)	137 (5.3)	21 (0.8)	18 (0.7)
<b>Investigations</b>	184 (7.2)	147 (5.7)	13 (0.5)	13 (0.5)
<b>Infections and Infestations</b>	166 (6.5)	163 (6.3)	40 (1.6)	33 (1.3)
<b>Renal Disorders</b>	130 (5.1)	100 (3.9)	12 (0.5)	6 (0.2)



Based on a median follow-up of patients for 28 months, the incidence of clinical fractures from the core randomized study in patients who received letrozole tablets were 5.9% (152) and placebo was 5.5% (142). The incidence of self-reported osteoporosis was higher in patients who received letrozole tablets 6.9% (176) than in patients who received placebo 5.5% (141). Bisphosphonates were administered to 21.1% of the patients who received letrozole tablets and 18.7% of the patients who received placebo.

The incidence of cardiovascular ischemic events from the core randomized study was comparable between patients who received letrozole tablets 6.8% (175) and placebo 6.5% (167).

A patient-reported measure that captures treatment impact on important symptoms associated with estrogen deficiency demonstrated a difference in favor of placebo for vasomotor and sexual symptom domains.

**Bone Sub-study;** see Warnings and Precautions (5.1)].

**Lipid Sub-study:** In the extended adjuvant setting, based on a median duration of follow-up of 62 months, there was no significant difference between letrozole tablets and placebo in total cholesterol or in any lipid fraction at any time over 5 years. Use of lipid lowering drugs or dietary management of elevated lipids was allowed. [ See Warnings and Precautions (5.2)]

### **6.3 Updated Analysis, Extended Adjuvant Treatment of Early Breast Cancer, Median Treatment Duration of 60 Months**

The extended adjuvant treatment trial was unblinded early [see *Adverse Reactions (6.2)*]. At the updated (final analysis), overall the side effects seen were consistent to those seen at a median treatment duration of 24 months.

During treatment or within 30 days of stopping treatment (median duration of treatment 60 months) a higher rate of fractures was observed for letrozole tablets (10.4%) compared to placebo (5.8%), as also a higher rate of osteoporosis (letrozole tablets 12.2% vs placebo 6.4%). Based on 62 months median duration of follow-up in the randomized letrozole arm in the Safety population the incidence of new fractures at any time after randomization was 13.3% for letrozole and 7.8% for placebo. The incidence of new osteoporosis was 14.5% for letrozole and 7.8% for placebo. During treatment or within 30 days of stopping treatment (median duration of treatment 60 months) the incidence of cardiovascular events was 9.8% for letrozole tablets and 7.0% for placebo. Based on 62 months median duration of follow-up in the randomized letrozole arm in the Safety population the incidence of cardiovascular disease at any time after randomization was 14.4% for letrozole and 9.8% for placebo. Lipid sub-study: In the extended adjuvant setting, based on a median duration of follow-up of 62 months, there was no significant difference between letrozole tablets and placebo in total cholesterol or in any lipid fraction over 5 years. Use of lipid lowering drugs or dietary management of elevated lipids was allowed. [See *Warnings and Precautions (5.2)*]

### **6.4 First-Line Treatment of Advanced Breast Cancer**

A total of 455 patients were treated for a median time of exposure of 11 months. The incidence of adverse reactions was similar for letrozole tablets and tamoxifen. The most frequently reported adverse reactions were bone pain, hot flushes, back pain, nausea, arthralgia and dyspnea. Discontinuations for adverse reactions other than progression of tumor occurred in 10/455 (2%) of patients on letrozole tablets and in 15/455 (3%) of patients on tamoxifen.

Adverse reactions, regardless of relationship to study drug, that were reported in at least 5% of the patients treated with letrozole tablets, 2.5 mg or tamoxifen 20 mg in the first-line treatment study are shown in Table 3.

**Table 3: Percentage (%) of Patients with Adverse Reactions**

<b>Adverse</b>	<b>Letrozole tablets</b>	<b>tamoxifen</b>
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<b>Reaction</b>	<b>2.5 mg (N=455) %</b>	<b>20 mg (N=455) %</b>
<b>General Disorders</b>		
Fatigue	13	13
Chest Pain	8	9
Edema Peripheral	5	6
Pain NOS	5	7
Weakness	6	4
<b>Investigations</b>		
Weight Decreased	7	5
<b>Vascular Disorders</b>		
Hot Flushes	19	16
Hypertension	8	4
<b>Gastrointestinal Disorders</b>		
Nausea	17	17
Constipation	10	11
Diarrhea	8	4
Vomiting	7	8
<b>Infections/Infestations</b>		
Influenza	6	4
Urinary Tract Infection NOS	6	3
<b>Injury, Poisoning and Procedural Complications</b>		
Post-Mastectomy Lymphedema	7	7
<b>Metabolism and Nutrition Disorders</b>		
Anorexia	4	6
<b>Musculoskeletal and Connective Tissue Disorders</b>		
Bone Pain	22	21
Back Pain	18	19
Arthralgia	16	15
Pain in Limb	10	8
<b>Nervous System Disorders</b>		
Headache NOS	8	7
<b>Psychiatric Disorders</b>		
Insomnia	7	4
<b>Reproductive System and Breast Disorders</b>		
Breast Pain	7	7
<b>Respiratory, Thoracic and Mediastinal Disorders</b>		
Dyspnea	18	17
Cough	13	13
Chest Wall Pain	6	6

Other less frequent ( $\leq 2\%$ ) adverse reactions considered consequential for both treatment groups, included peripheral thromboembolic events, cardiovascular events, and cerebrovascular events. Peripheral thromboembolic events included venous thrombosis, thrombophlebitis, portal vein thrombosis and pulmonary embolism. Cardiovascular events included angina, myocardial infarction, myocardial ischemia, and coronary heart disease. Cerebrovascular events included transient ischemic attacks, thrombotic or hemorrhagic strokes and development of hemiparesis.

### 6.5 Second-Line Treatment of Advanced Breast Cancer

Study discontinuations in the megestrol acetate comparison study for adverse reactions other than progression of tumor were 5/188 (2.7%) on letrozole tablets 0.5 mg, in 4/174 (2.3%) on letrozole tablets 2.5 mg, and in 15/190 (7.9%) on megestrol acetate. There were fewer thromboembolic events at both letrozole tablets doses than on the megestrol acetate arm (0.6% vs 4.7%). There was also less

vaginal bleeding (0.3% vs 3.2%) on letrozole tablets than on megestrol acetate. In the aminoglutethimide comparison study, discontinuations for reasons other than progression occurred in 6/193 (3.1%) on 0.5 mg letrozole tablets, 7/185 (3.8%) on 2.5 mg letrozole tablets, and 7/178 (3.9%) of patients on aminoglutethimide.

Comparisons of the incidence of adverse reactions revealed no significant differences between the high and low dose letrozole tablets groups in either study. Most of the adverse reactions observed in all treatment groups were mild to moderate in severity and it was generally not possible to distinguish adverse reactions due to treatment from the consequences of the patient's metastatic breast cancer, the effects of estrogen deprivation, or intercurrent illness.

Adverse reactions, regardless of relationship to study drug, that were reported in at least 5% of the patients treated with letrozole tablets 0.5 mg, letrozole tablets 2.5 mg, megestrol acetate, or aminoglutethimide in the two controlled trials are shown in Table 4.

**Table 4: Percentage (%) of Patients with Adverse Reactions**

	<b>Pooled letrozole tablets</b>	<b>Pooled letrozole tablets</b>	<b>megestrol acetate</b>	<b>aminoglutethimide</b>
	<b>2.5 mg (N=359)%</b>	<b>0.5 mg (N=380)%</b>	<b>160 mg (N=189)%</b>	<b>500 mg (N=178)%</b>
<b>Body as a Whole</b>				
Fatigue	8	6	11	3
Chest Pain	6	3	7	3
Peripheral Edema <sup>1</sup>	5	5	8	3
Asthenia	4	5	4	5
Weight Increase	2	2	9	3
<b>Cardiovascular</b>				
Hypertension	5	7	5	6
<b>Digestive System</b>				
Nausea	13	15	9	14
Vomiting	7	7	5	9
Constipation	6	7	9	7
Diarrhea	6	5	3	4
Pain-Abdominal	6	5	9	8
Anorexia	5	3	5	5
Dyspepsia	3	4	6	5
<b>Infections/Infestations</b>				
Viral Infection	6	5	6	3
<b>Lab Abnormality</b>				
Hypercholesterolemia <sup>3</sup>	3	3	0	6
<b>Musculoskeletal System</b>				
Musculoskeletal <sup>2</sup>	21	22	30	14
Arthralgia	8	8	8	3
<b>Nervous System</b>				
Headache	9	12	9	7
Somnolence	3	2	2	9
Dizziness	3	5	7	3
<b>Respiratory System</b>				
Dyspnea	7	9	16	5
Coughing	6	5	7	5
<b>Skin and Appendages</b>				
Hot Flushes	6	5	4	3

Rash <sup>3</sup>	5	4	3	12
Pruritus	1	2	5	3

<sup>1</sup> Includes peripheral edema, leg edema, dependent edema, edema

<sup>2</sup> Includes musculoskeletal pain, skeletal pain, back pain, arm pain, leg pain

<sup>3</sup> Includes rash, erythematous rash, maculopapular rash, psoriasiform rash, vesicular rash

Other less frequent (<5%) adverse reactions considered consequential and reported in at least 3 patients treated with letrozole tablets, included hypercalcemia, fracture, depression, anxiety, pleural effusion, alopecia, increased sweating and vertigo.

## 6.6 First and Second-Line Treatment of Advanced Breast Cancer

In the combined analysis of the first- and second-line metastatic trials and post-marketing experiences other adverse reactions that were reported were cataract, eye irritation, palpitations, cardiac failure, tachycardia, dysesthesia (including hypesthesia/paresthesia), arterial thrombosis, memory impairment, irritability, nervousness, urticaria, increased urinary frequency, leukopenia, stomatitis cancer pain, pyrexia, vaginal discharge, appetite increase, dryness of skin and mucosa (including dry mouth), and disturbances of taste and thirst.

## 6.7 Postmarketing Experience

Cases of blurred vision and increased hepatic enzymes, angioedema, anaphylactic reactions, toxic epidermal necrolysis, erythema multiforme and hepatitis have been reported.

## 7 DRUG INTERACTIONS

### Tamoxifen

Coadministration of letrozole tablets and tamoxifen 20 mg daily resulted in a reduction of letrozole plasma levels of 38% on average. Clinical experience in the second-line breast cancer trials indicates that the therapeutic effect of letrozole tablets therapy is not impaired if letrozole tablets are administered immediately after tamoxifen.

### Cimetidine

A pharmacokinetic interaction study with cimetidine showed no clinically significant effect on letrozole pharmacokinetics.

### Warfarin

An interaction study with warfarin showed no clinically significant effect of letrozole on warfarin pharmacokinetics.

### Other Anticancer Agents

There is no clinical experience to date on the use of letrozole tablets in combination with other anticancer agents.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

Pregnancy Category X [see Contraindications (4)].

Letrozole tablets may cause fetal harm when administered to a pregnant woman and offers no clinical benefit to premenopausal women with breast cancer. Letrozole tablets are contraindicated in women who are or may become pregnant. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to a fetus.

Letrozole tablets caused adverse pregnancy outcomes, including congenital malformations, in rats and rabbits at doses much smaller than the daily maximum recommended human dose (MRHD) on a mg/m<sup>2</sup> basis. Effects included increased post-implantation pregnancy loss and resorptions, fewer live fetuses, and fetal malformations affecting the renal and skeletal systems. Animal data and letrozole's mechanism of action raise concerns that letrozole could be a human teratogen as well.

Reproduction studies in rats showed embryo and fetal toxicity at letrozole doses during organogenesis equal to or greater than 1/100 the daily maximum recommended human dose (MHRD) (mg/m<sup>2</sup> basis). Adverse effects included: intrauterine mortality; increased resorptions and postimplantation loss; decreased numbers of live fetuses; and fetal anomalies including absence and shortening of renal papilla, dilation of ureter, edema and incomplete ossification of frontal skull and metatarsals. Letrozole doses 1/10 the daily MHRD (mg/m<sup>2</sup> basis) caused fetal domed head and cervical/centrum vertebral fusion. In rabbits, letrozole caused embryo and fetal toxicity at doses about 1/100,000 and 1/10,000 the daily MHRD respectively (mg/m<sup>2</sup> basis). Fetal anomalies included incomplete ossification of the skull, sternebrae, and fore- and hind legs. [*see Nonclinical Toxicology (13.2)*].

Physicians should discuss the need for adequate contraception with women who are recently menopausal. Contraception should be used until postmenopausal status is clinically well established.

### **8.3 Nursing Mothers**

It is not known if letrozole is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from letrozole, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

### **8.4 Pediatric Use**

The safety and effectiveness in pediatric patients have not been established.

### **8.5 Geriatric Use**

The median age of patients in all studies of first-line and second-line treatment of metastatic breast cancer was 64-65 years. About 1/3 of the patients were ≥70 years old. In the first-line study, patients ≥70 years of age experienced longer time to tumor progression and higher response rates than patients <70.

For the extended adjuvant setting, more than 5,100 postmenopausal women were enrolled in the clinical study. In total, 41% of patients were aged 65 years or older at enrollment, while 12% were 75 or older. In the extended adjuvant setting, no overall differences in safety or efficacy were observed between these older patients and younger patients, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

In the adjuvant setting, more than 8,000 postmenopausal women were enrolled in the clinical study. In total, 36 % of patients were aged 65 years or older at enrollment, while 12% were 75 or older. More adverse reactions were generally reported in elderly patients irrespective of study treatment allocation. However, in comparison to tamoxifen, no overall differences with regards to the safety and efficacy profiles were observed between elderly patients and younger patients.

## **10 OVERDOSAGE**

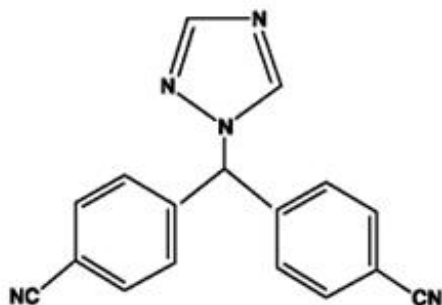
Isolated cases of Letrozole tablets overdose have been reported. In these instances, the highest single dose ingested was 62.5 mg or 25 tablets. While no serious adverse reactions were reported in these cases, because of the limited data available, no firm recommendations for treatment can be made. However, emesis could be induced if the patient is alert. In general, supportive care and frequent monitoring of vital signs are also appropriate. In single-dose studies, the highest dose used was 30 mg,

which was well tolerated; in multiple-dose trials, the largest dose of 10 mg was well tolerated.

Lethality was observed in mice and rats following single oral doses that were equal to or greater than 2,000 mg/kg (about 4,000 to 8,000 times the daily maximum recommended human dose on a mg/m<sup>2</sup>) death was associated with reduced motor activity, ataxia and dyspnea. Lethality was observed in cats following single IV doses that were equal to or greater than 10 mg/kg (about 50 times the daily maximum recommended human dose on a mg/m<sup>2</sup>) death was preceded by depressed blood pressure and arrhythmias.

## 11 DESCRIPTION

Letrozole tablets for oral administration contains 2.5 mg of letrozole, a nonsteroidal aromatase inhibitor (inhibitor of estrogen synthesis). It is chemically described as 4,4'-(1H-1,2,4-Triazol-1-ylmethylene)dibenzonitrile, and its structural formula is



Letrozole is a white to yellowish crystalline powder, practically odorless, freely soluble in dichloromethane, slightly soluble in ethanol, and practically insoluble in water. It has a molecular weight of 285.31, empirical formula C<sub>17</sub>H<sub>11</sub>N<sub>5</sub>, and a melting range of 184°C-185°C.

Letrozole tablets are available as 2.5 mg tablets film-coated for oral administration.

*Inactive Ingredients:* lactose monohydrate, microcrystalline cellulose, sodium starch glycolate, pre-gelatinized starch, colloidal silicon dioxide, magnesium stearate, purified water and hypromellose 2910 6cP, titanium dioxide and PEG 400.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

The growth of some cancers of the breast is stimulated or maintained by estrogens. Treatment of breast cancer thought to be hormonally responsive (i.e., estrogen and/or progesterone receptor positive or receptor unknown) has included a variety of efforts to decrease estrogen levels (ovariectomy, adrenalectomy, hypophysectomy) or inhibit estrogen effects (antiestrogens and progestational agents). These interventions lead to decreased tumor mass or delayed progression of tumor growth in some women.

In postmenopausal women, estrogens are mainly derived from the action of the aromatase enzyme, which converts adrenal androgens (primarily androstenedione and testosterone) to estrone and estradiol. The suppression of estrogen biosynthesis in peripheral tissues and in the cancer tissue itself can therefore be achieved by specifically inhibiting the aromatase enzyme.

Letrozole is a nonsteroidal competitive inhibitor of the aromatase enzyme system; it inhibits the conversion of androgens to estrogens. In adult nontumor- and tumor-bearing female animals, letrozole is as effective as ovariectomy in reducing uterine weight, elevating serum LH, and causing the regression of estrogen-dependent tumors. In contrast to ovariectomy, treatment with letrozole does not lead to an increase in serum FSH. Letrozole selectively inhibits gonadal steroidogenesis but has no significant effect on adrenal mineralocorticoid or glucocorticoid synthesis.

Letrozole inhibits the aromatase enzyme by competitively binding to the heme of the cytochrome P450 subunit of the enzyme, resulting in a reduction of estrogen biosynthesis in all tissues. Treatment of women with letrozole significantly lowers serum estrone, estradiol and estrone sulfate and has not been shown to significantly affect adrenal corticosteroid synthesis, aldosterone synthesis, or synthesis of thyroid hormones.

## 12.2 Pharmacodynamics

In postmenopausal patients with advanced breast cancer, daily doses of 0.1 mg to 5 mg letrozole tablets suppress plasma concentrations of estradiol, estrone, and estrone sulfate by 75%-95% from baseline with maximal suppression achieved within two-three days. Suppression is dose-related, with doses of 0.5 mg and higher giving many values of estrone and estrone sulfate that were below the limit of detection in the assays. Estrogen suppression was maintained throughout treatment in all patients treated at 0.5 mg or higher.

Letrozole is highly specific in inhibiting aromatase activity. There is no impairment of adrenal steroidogenesis. No clinically-relevant changes were found in the plasma concentrations of cortisol, aldosterone, 11-deoxycortisol, 17-hydroxy-progesterone, ACTH or in plasma renin activity among postmenopausal patients treated with a daily dose of letrozole tablets 0.1 mg to 5 mg. The ACTH stimulation test performed after 6 and 12 weeks of treatment with daily doses of 0.1, 0.25, 0.5, 1, 2.5, and 5 mg did not indicate any attenuation of aldosterone or cortisol production. Glucocorticoid or mineralocorticoid supplementation is, therefore, not necessary.

No changes were noted in plasma concentrations of androgens (androstenedione and testosterone) among healthy postmenopausal women after 0.1, 0.5, and 2.5 mg single doses of letrozole tablets or in plasma concentrations of androstenedione among postmenopausal patients treated with daily doses of 0.1 mg to 5 mg. This indicates that the blockade of estrogen biosynthesis does not lead to accumulation of androgenic precursors. Plasma levels of LH and FSH were not affected by letrozole in patients, nor was thyroid function as evaluated by TSH levels, T3 uptake, and T4 levels.

## 12.3 Pharmacokinetics

*Absorption and Distribution:* Letrozole is rapidly and completely absorbed from the gastrointestinal tract and absorption is not affected by food. It is metabolized slowly to an inactive metabolite whose glucuronide conjugate is excreted renally, representing the major clearance pathway. About 90% of radiolabeled letrozole is recovered in urine. Letrozole's terminal elimination half-life is about 2 days and steady-state plasma concentration after daily 2.5 mg dosing is reached in 2-6 weeks. Plasma concentrations at steady state are 1.5 to 2 times higher than predicted from the concentrations measured after a single dose, indicating a slight nonlinearity in the pharmacokinetics of letrozole upon daily administration of 2.5 mg. These steady-state levels are maintained over extended periods, however, and continuous accumulation of letrozole does not occur. Letrozole is weakly protein bound and has a large volume of distribution (approximately 1.9 L/kg).

*Metabolism and Excretion:* Metabolism to a pharmacologically-inactive carbinol metabolite (4,4'-methanolbisbenzotrile) and renal excretion of the glucuronide conjugate of this metabolite is the major pathway of letrozole clearance. Of the radiolabel recovered in urine, at least 75% was the glucuronide of the carbinol metabolite, about 9% was two unidentified metabolites, and 6% was unchanged letrozole.

In human microsomes with specific CYP isozyme activity, CYP3A4 metabolized letrozole to the

carbinol metabolite while CYP2A6 formed both this metabolite and its ketone analog. In human liver microsomes, letrozole strongly inhibited CYP2A6 and moderately inhibited CYP2C19.

**Pediatric, Geriatric and Race:** In the study populations (adults ranging in age from 35 to >80 years), no change in pharmacokinetic parameters was observed with increasing age. Differences in letrozole pharmacokinetics between adult and pediatric populations have not been studied. Differences in letrozole pharmacokinetics due to race have not been studied.

**Renal Impairment:** In a study of volunteers with varying renal function (24-hour creatinine clearance: 9-116 mL/min), no effect of renal function on the pharmacokinetics of single doses of 2.5 mg of letrozole tablets were found. In addition, in a study of 347 patients with advanced breast cancer, about half of whom received 2.5 mg letrozole tablets and half 0.5 mg letrozole tablets, renal impairment (calculated creatinine clearance: 20-50 mL/min) did not affect steady-state plasma letrozole concentrations.

**Hepatic Impairment:** In a study of subjects with mild to moderate non-metastatic hepatic dysfunction (e.g., cirrhosis, Child-Pugh classification A and B), the mean AUC values of the volunteers with moderate hepatic impairment were 37% higher than in normal subjects, but still within the range seen in subjects without impaired function.

In a pharmacokinetic study, subjects with liver cirrhosis and severe hepatic impairment (Child-Pugh classification C, which included bilirubins about 2-11 times ULN with minimal to severe ascites) had two-fold increase in exposure (AUC) and 47% reduction in systemic clearance. Breast cancer patients with severe hepatic impairment are thus expected to be exposed to higher levels of letrozole than patients with normal liver function receiving similar doses of this drug. [see Dosage and Administration (2.5)]

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

A conventional carcinogenesis study in mice at doses of 0.6 to 60 mg/kg/day (about 1 to 100 times the daily maximum recommended human dose on a mg/m<sup>2</sup> basis) administered by oral gavage for up to 2 years revealed a dose-related increase in the incidence of benign ovarian stromal tumors. The incidence of combined hepatocellular adenoma and carcinoma showed a significant trend in females when the high dose group was excluded due to low survival. In a separate study, plasma AUC<sub>0-12hr</sub> levels in mice at 60 mg/kg/day were 55 times higher than the AUC<sub>0-24hr</sub> level in breast cancer patients at the recommended dose. The carcinogenicity study in rats at oral doses of 0.1 to 10 mg/kg/day (about 0.4 to 40 times the daily maximum recommended human dose on a mg/m<sup>2</sup> basis) for up to 2 years also produced an increase in the incidence of benign ovarian stromal tumors at 10 mg/kg/day. Ovarian hyperplasia was observed in females at doses equal to or greater than 0.1 mg/kg/day. At 10 mg/kg/day, plasma AUC<sub>0-24hr</sub> levels in rats were 80 times higher than the level in breast cancer patients at the recommended dose.

Letrozole tablets (letrozole) was not mutagenic in *in vitro* tests (Ames and E.coli bacterial tests) but was observed to be a potential clastogen in *in vitro* assays (CHO K1 and CCL 61 Chinese hamster ovary cells). Letrozole was not clastogenic *in vivo* (micronucleus test in rats).

Studies to investigate the effect of letrozole on fertility have not been conducted; however, repeated dosing caused sexual inactivity in females and atrophy of the reproductive tract in males and females at doses of 0.6, 0.1 and 0.03 mg/kg in mice, rats and dogs, respectively (about one, 0.4 and 0.4 the daily maximum recommended human dose on a mg/m<sup>2</sup> basis, respectively).

Letrozole administered to young (postnatal day 7) rats for 12 weeks duration at 0.003, 0.03, 0.3 mg/kg/day by oral gavage, resulted in adverse skeletal/growth effects (bone maturation, bone mineral density) and neuroendocrine and reproductive developmental perturbations of the hypothalamic-pituitary axis at exposures less than exposure anticipated at the clinical dose of 2.5 mg/day. Decreased fertility was accompanied by hypertrophy of the hypophysis and testicular changes that included degeneration of



the seminiferous tubular epithelium and atrophy of the female reproductive tract. Young rats in this study were allowed to recover following discontinuation of letrozole treatment for 42 days. Histopathological changes were not reversible at clinically relevant exposures.

### **13.2 Animal Toxicology and/or Pharmacology**

*Reproductive Toxicology:* studies in rats at letrozole doses equal to or greater than 0.003 mg/kg (about 1/100 the daily maximum recommended human dose on a mg/m<sup>2</sup> basis) administered during the period of organogenesis, have shown that letrozole is embryotoxic and fetotoxic, as indicated by intrauterine mortality, increased resorption, increased postimplantation loss, decreased numbers of live fetuses and fetal anomalies including absence and shortening of renal papilla, dilation of ureter, edema and incomplete ossification of frontal skull and metatarsals. Letrozole was teratogenic in rats. A 0.03 mg/kg dose (about 1/10 the daily maximum recommended human dose on a mg/m<sup>2</sup> basis) caused fetal domed head and cervical/centrum vertebral fusion.

Letrozole is embryotoxic at doses equal to or greater than 0.002 mg/kg and fetotoxic when administered to rabbits at 0.02 mg/kg (about 1/100,000 and 1/10,000 the daily maximum recommended human dose on a mg/m<sup>2</sup> basis, respectively). Fetal anomalies included incomplete ossification of the skull, sternebrae, and fore- and hind legs.

## **14 CLINICAL STUDIES**

### **14.1 Updated Adjuvant Treatment of Early Breast Cancer**

In a multicenter study enrolling over 8,000 postmenopausal women with resected, receptor-positive early breast cancer one of the following treatments was randomized in a double-blind manner:

Option 1:

- A. tamoxifen for 5 years
- B. letrozole tablets for 5 years
- C. tamoxifen for 2 years followed by letrozole tablets for 3 years
- D. letrozole tablets for 2 years followed by tamoxifen for 3 years

Option 2:

- A. tamoxifen for 5 years
- B. letrozole tablets for 5 years

The study in the adjuvant setting, BIG 1-98 was designed to answer two primary questions: whether letrozole tablets for 5 years was superior to tamoxifen for 5 years (Primary Core Analysis) and whether switching endocrine treatments at 2 years was superior to continuing the same agent for a total of 5 years (Sequential Treatments Analysis). Selected baseline characteristics for the study population are shown in Table 5. The primary endpoint of this trial was disease-free survival (DFS) (i.e., interval between randomization and earliest occurrence of a local, regional, or distant recurrence, or invasive contralateral breast cancer, or death from any cause). The secondary endpoints were overall survival (OS), systemic disease-free survival (SDFS), invasive contralateral breast cancer, time to breast cancer recurrence (TBR) and time to distant metastasis (TDM).

The Primary Core Analysis (PCA) included all patients and all follow-up in the monotherapy arms in both randomization options, but follow-up in the two sequential treatments arms was truncated 30 days after switching treatments. The PCA was conducted at a median treatment duration of 24 months and a median follow-up of 26 months. letrozole tablets was superior to tamoxifen in all endpoints except overall survival and contralateral breast cancer [e.g., DFS: hazard ratio, HR 0.79; 95% CI (0.68, 0.92); P=0.002; SDFS: HR 0.83; 95% CI (0.70, 0.97); TDM: HR 0.73; 95% CI (0.60, 0.88); OS: HR 0.86; 95% CI (0.70, 1.06).

In 2005, based on recommendations by the independent Data Monitoring Committee, the tamoxifen arms were unblinded and patients were allowed to complete initial adjuvant therapy with letrozole tablets (if they had received tamoxifen for at least 2 years) or to start extended adjuvant treatment with letrozole tablets (if they had received tamoxifen for at least 4.5 years) if they remained alive and disease-free. In total, 632 patients crossed to letrozole tablets or another aromatase inhibitor. Approximately 70% (448) of these 632 patients crossed to letrozole tablets to complete initial adjuvant therapy and most of these crossed in years 3 to 4. All of these patients were in Option 1. A total of 184 patients started extended adjuvant therapy with letrozole tablets (172 patients) or with another aromatase inhibitor (12 patients). To explore the impact of this selective crossover, results from analyses censoring follow-up at the date of the selective crossover (in the tamoxifen arm) are presented for the Monotherapy Arms Analysis (MAA).

The PCA allowed the results of letrozole tablets for 5 years compared with tamoxifen for 5 years to be reported in 2005 after a median follow-up of only 26 months. The design of the PCA is not optimal to evaluate the effect of letrozole tablets after a longer time (because follow-up was truncated in two arms at around 25 months). The Monotherapy Arms Analysis (ignoring the two sequential treatment arms) provided follow-up equally as long in each treatment and did not over-emphasize early recurrences as the PCA did. The MAA thus provides the clinically appropriate updated efficacy results in answer to the first primary question, despite the confounding of the tamoxifen reference arm by the selective crossover to letrozole tablets. The updated results for the MAA are summarized in Table 6. Median follow-up for this analysis is 73 months.

The Sequential Treatments Analysis (STA) addresses the second primary question of the study. The primary analysis for the Sequential Treatments Analysis (STA) was from switch (or equivalent time-point in monotherapy arms) + 30 days (STA-S) with a two-sided test applied to each pair-wise comparison at the 2.5% level. Additional analyses were conducted from randomization (STA-R) but these comparisons (added in light of changing medical practice) were under-powered for efficacy.

**Table 5: Adjuvant Study - Patient and Disease Characteristics (ITT Population)**

Characteristic	Primary Core Analysis (PCA)		Monotherapy Arms Analysis (MAA)	
	Letrozole tablets N=4003 n (%)	tamoxifen N=4007 n (%)	Letrozole tablets N=2463 n (%)	tamoxifen N=2459 n (%)
<b>Age (median, years)</b>	61	61	61	61
<b>Age Range (years)</b>	38-89	39-90	38-88	39-90
<b>Hormone Receptor Status (%)</b>				
ER+ and/or PgR+	99.7	99.7	99.7	99.7
Both Unknown	0.3	0.3	0.3	0.3
<b>Nodal Status (%)</b>				
Node Negative	52	52	50	52
Node Positive	41	41	43	41
Nodal Status Unknown	7	7	7	7
<b>Prior Adjuvant Chemotherapy (%)</b>	24	24	24	24

**Table 6: Updated Adjuvant Study Results- Monotherapy Arms Analysis (Median Follow-up 73 Months)**

		Letrozole tablets		tamoxifen		Hazard Ratio (95% CI)	P
		N=2463		N=2459			
		Events (%)	5-year rate	Events (%)	5-year rate		
Disease-Free Survival <sup>1</sup>	ITT	445 (18.1)	87.4	500(20.3)	84.7	0.87 (0.76, 0.99)	0.03
	Censor	445	87.4	483	84.2	0.84 (0.73, 0.95)	
0 positive nodes	ITT	165	92.2	189	90.3	0.88 (0.72, 1.09)	
1-3 positive nodes	ITT	151	85.6	163	83.0	0.85 (0.68, 1.06)	
>=4 positive nodes	ITT	123	71.2	142	62.6	0.81 (0.64, 1.03)	
Adjuvant Chemotherapy	ITT	119	86.4	150	80.6	0.77 (0.60, 0.98)	
No Chemotherapy	ITT	326	87.8	350	86.1	0.91 (0.78, 1.06)	
Systemic DFS <sup>2</sup>	ITT	401	88.5	446	86.6	0.88 (0.77,1.01)	
Time to Distant Metastasis <sup>3</sup>	ITT	257	92.4	298	90.1	0.85 (0.72, 1.00)	
Adjuvant Chemotherapy	ITT	84	-	-	-	0.75 (0.56-1.00)	
No Chemotherapy	ITT	173	-	298	-	0.90 (0.73,1.11)	
Distant DFS <sup>4</sup>	ITT	385	89.0	446	87.1	0.87 (0.76,1.00)	
Contralateral Breast Cancer	ITT	34	99.2	189	98.6	0.76 (0.49, 1.19)	
Overall Survival	ITT	303	91.8	343	90.9	0.87 (0.75, 1.02)	
	Censor	303	91.8	338	90.1	0.82 (0.70, 0.96)	
0 positive nodes	ITT	107	95.2	121	94.8	0.90 (0.69,1.16)	
1-3 positive nodes	ITT	99	90.8	114	90.6	0.81(0.62,1.06)	
>=4 positive nodes	ITT	92	80.2	104	73.6	0.86 (0.65, 1.14)	
Adjuvant Chemotherapy	ITT	76	91.5	96	88.4	0.79 (0.58, 1.06)	
No Chemotherapy	ITT	227	91.9	247	91.8	0.91 (0.76, 1.08)	

\* Definition of:

<sup>1</sup> Disease-Free Survival: Interval from randomization to the earliest event of invasive loco-regional recurrence, distant metastases, invasive contralateral breast cancer, or death without a prior event.

<sup>2</sup> Systemic Disease-Free Survival: Interval from randomization to invasive regional recurrence, distant metastases, or death without a prior cancer event

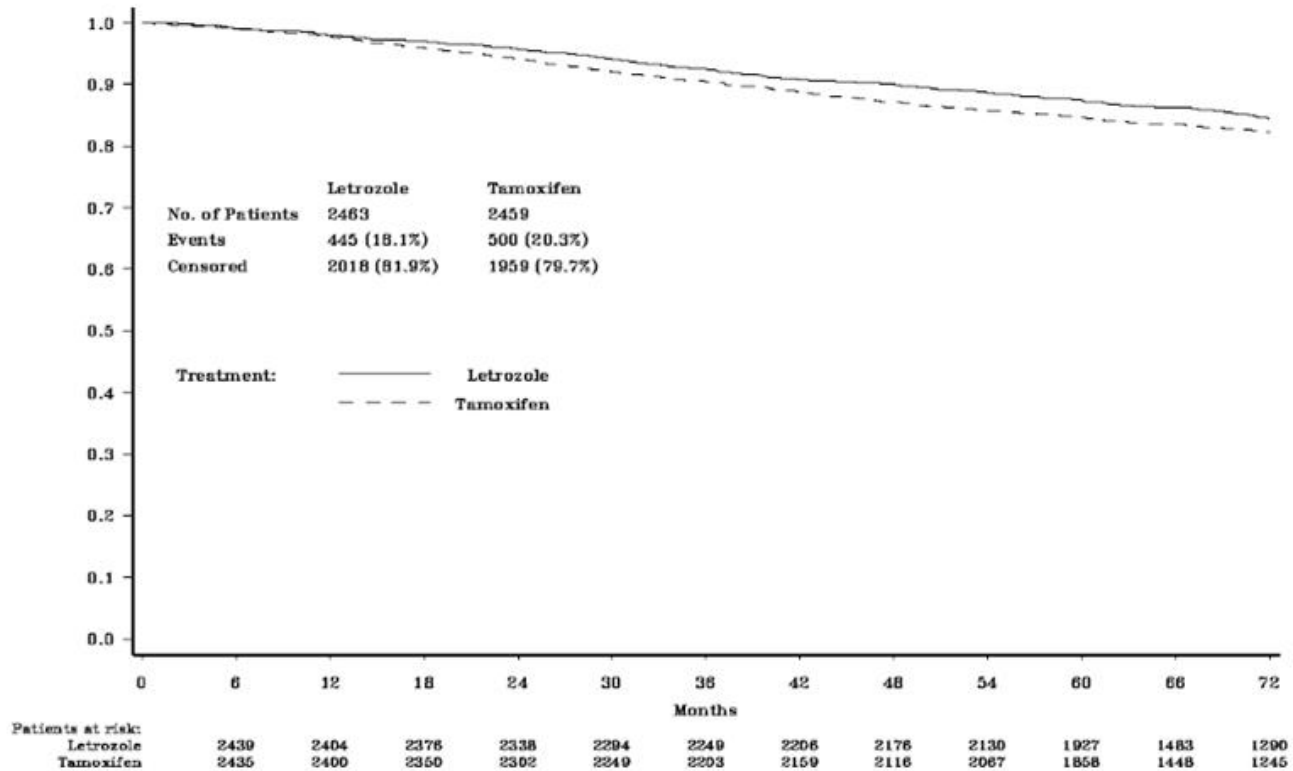
<sup>3</sup> Time to Distant Metastasis: Interval from randomization to distant metastasis.

<sup>4</sup> Distant Disease Free Survival: Interval from randomization to the earliest event of relapse to a distant site or death from any cause.

ITT analysis ignores selective crossover in tamoxifen arms Censored analysis censors follow-up at the date of selective crossover in 632 patients who crossed to letrozole tablets or another aromatase inhibitor after the tamoxifen arms were unblinded in 2005

Figure 1 shows the Kaplan-Meier curves for Disease-Free Survival Monotherapy Analysis

**Figure 1 Disease-Free Survival (Median follow-up 73 months, ITT Approach)**



DFS events defined as loco-regional recurrence, distant metastasis, invasive contralateral breast cancer, or death from any cause (i.e., definition excludes second non-breast primary cancers).

The medians of overall survival for both arms were not reached for the Monotherapy Arms Analysis (MAA). There was no statistically significant difference in overall survival. The hazard ratio for survival in the letrozole tablets arm compared to the tamoxifen arm was 0.87, with 95% CI (0.75, 1.02) (see Table 6). There were no significant differences in DFS, OS, SDFS, and Distant DFS from switch in the Sequential Treatments Analysis with respect to either monotherapy (e.g., [Tamoxifen 2 years followed by] letrozole tablets 3 years versus tamoxifen beyond 2 years, DFS HR 0.89; 97.5% CI 0.68, 1.15 and [letrozole tablets 2 years followed by] tamoxifen 3 years versus letrozole tablets beyond 2 years, DFS HR 0.93; 97.5% CI 0.71, 1.22). There were no significant differences in DFS, OS, SDFS, and Distant DFS from randomization in the Sequential Treatments Analyses.

#### **14.2 Extended Adjuvant Treatment of Early Breast Cancer, Median Treatment Duration of 24 Months**

A double-blind, randomized, placebo-controlled trial of letrozole tablets were performed in over 5,100 postmenopausal women with receptor-positive or unknown primary breast cancer who were disease free after 5 years of adjuvant treatment with tamoxifen.

The planned duration of treatment for patients in the study was 5 years, but the trial was terminated early because of an interim analysis showing a favorable letrozole tablets effect on time without recurrence or contralateral breast cancer. At the time of unblinding, women had been followed for a median of 28 months, 30% of patients had completed 3 or more years of follow-up and less than 1% of patients had completed 5 years of follow-up.

Selected baseline characteristics for the study population are shown in Table 7.

**Table 7: Selected Study Population Demographics (Modified ITT Population)**

<b>Baseline Status</b>	<b>Letrozole tablets</b>	<b>Placebo</b>
	<b>N=2582</b>	<b>N=2586</b>
<b>Hormone Receptor Status (%)</b>		
ER+ and/or PgR+	98	98
Both Unknown	2	2
<b>Nodal Status (%)</b>		
Node Negative	50	50
Node Positive	46	46
Nodal Status Unknown	4	4
<b>Chemotherapy</b>	46	46

Table 8 shows the study results. Disease-free survival was measured as the time from randomization to the earliest event of loco-regional or distant recurrence of the primary disease or development of contralateral breast cancer or death. DFS by hormone receptor status, nodal status and adjuvant chemotherapy were similar to the overall results. Data were premature for an analysis of survival.

**Table 8: Extended Adjuvant Study Results**

	<b>Letrozole tablets</b>	<b>tamoxifen</b>	<b>Hazard Ratio (95% CI)</b>	<b>P-Value</b>
	<b>N=2582</b>	<b>N=2586</b>		
<b>Disease-Free Survival (DFS)<sup>1</sup> Events</b>	122 (4.7%)	193 (7.5%)	0.62 (0.49, 0.78) <sup>2</sup>	0.00003
Local Breast Recurrence	9	22		
Local Chest Wall Recurrence	2	8		
Regional Recurrence	7	4		
Distant Recurrence	55	92	0.61 (0.44-0.84)	0.003
Contralateral Breast Cancer	19	29		
Deaths Without Recurrence or Contralateral Breast Cancer	30	38		

CI = confidence interval for hazard ratio. Hazard ratio of less than 1.0 indicates difference in favor of Letrozole tablets (lesser risk of recurrence); hazard ratio greater than 1.0 indicates difference in favor of placebo (higher risk of recurrence with letrozole tablets).

<sup>1</sup>First event of loco-regional recurrence, distant relapse, contralateral breast cancer or death from any cause.

<sup>2</sup>Analysis stratified by receptor status, nodal status and prior adjuvant chemotherapy (stratification factors as at randomization). P-value based on stratified logrank test.

### **14.3 Updated Analyses of Extended Adjuvant Treatment of Early Breast Cancer, Median Treatment Duration of 60 Months**

**Table 9: Update of Extended Adjuvant Study Results**

	<b>Letrozole tablets</b>	<b>tamoxifen</b>	<b>Hazard Ratio<sup>1</sup></b>	<b>P-Value<sup>2</sup></b>
	<b>N=2582 (%)</b>	<b>N=2586 (%)</b>	<b>(95% CI)</b>	
<b>Disease-Free Survival (DFS) events<sup>3</sup></b>	344(13.3)	402(15.5)	0.89 (0.77, 1.03)	0.12
<b>Breast cancer recurrence (Protocol definition of DFS events<sup>4</sup>)</b>	209	286	0.75 (0.63, 0.89)	0.001
Local Breast Recurrence	15	43		
Local Chest Wall Recurrence	6	14		
Regional Recurrence	10	8		
Distant Recurrence	140	167		
Distant Recurrence (First or subsequent events)	142	169	0.88 (0.70,1.10)	0.246
Contralateral Breast Cancer	37	53		
Deaths Without Recurrence or Contralateral Breast Cancer	135	116		

<sup>1</sup>Adjusted by receptor status, nodal status and prior chemotherapy

<sup>2</sup>Stratified logrank test, stratified by receptor status, nodal status and prior chemotherapy

<sup>3</sup>DFS events defined as earliest of loco-regional recurrence, distant metastasis, contralateral breast cancer or death from any cause, and ignoring switches to letrozole tablets in 60% of the placebo arm.

<sup>4</sup>Protocol definition does not include deaths from any cause

Updated analyses were conducted at a median follow-up of 62 months. In the letrozole tablets arm, 71% of patients were treated for at least 3 years and 58% of patients completed at least 4.5 years of extended adjuvant treatment. After the unblinding of the study at a median follow-up of 28 months, approximately 60% of the selected patients in the placebo arm opted to switch to letrozole tablets.

In this updated analysis shown in Table 9, letrozole tablets significantly reduced the risk of breast cancer recurrence or contralateral breast cancer compared with placebo (HR 0.75; 95% CI 0.63, 0.89; P=0.001). However, in the updated DFS analysis (interval between randomization and earliest event of loco-regional recurrence, distant metastasis, contralateral breast cancer, or death from any cause) the treatment difference was heavily diluted by 60% of the patients in the placebo arm switching to letrozole tablets and accounting for 64% of the total placebo patient-years of follow-up. Ignoring these switches, the risk of a DFS event was reduced by a non-significant 11% (HR 0.89; 95% CI 0.77, 1.03). There was also no significant difference in distant disease-free survival or overall survival.

#### 14.4 First-Line Treatment of Advanced Breast Cancer

A randomized, double-blind, multinational trial compared letrozole tablets 2.5 mg with tamoxifen 20 mg in 916 postmenopausal patients with locally advanced (Stage IIIB or loco-regional recurrence not amenable to treatment with surgery or radiation) or metastatic breast cancer. Time to progression (TTP) was the primary endpoint of the trial. Selected baseline characteristics for this study are shown in Table 10.

**Table 10: Selected Study Population Demographics**

<b>Baseline Status</b>	<b>Letrozole tablets</b>	<b>tamoxifen</b>
	<b>N=458</b>	<b>N=458</b>
<b>Stage of Disease</b>		
IIIB	6%	7%
IV	93%	92%

<b>Receptor Status</b>		
ER and PgR Positive	38%	41%
ER and PgR Positive	26%	26%
Both Unknown	34%	33%
ER <sup>-</sup> or PgR <sup>-</sup> / Other Unknown	<1%	0
<b>Previous Antiestrogen Therapy</b>		
Adjuvant	19%	18%
None	81%	82%
<b>Dominant Site of Disease</b>		
Soft Tissue	25%	25%
Bone	32%	29%
Viscera	43%	46%

Letrozole tablets were superior to tamoxifen in TTP and rate of objective tumor response (see Table 11).

Table 11 summarizes the results of the trial, with a total median follow-up of approximately 32 months. (All analyses are unadjusted and use 2-sided P-values.)

**Table 11: Results of First-Line Treatment of Advanced Breast Cancer**

<b>Baseline Status</b>	<b>Letrozole tablets</b>	<b>tamoxifen</b>	<b>Hazard or Odds Ratio (95% CI)</b>
	<b>2.5 mg</b>	<b>20 mg</b>	<b>Ratio (95% CI)</b>
	<b>N=453</b>	<b>N=454</b>	<b>P-Value (2-sided)</b>
<b>Median Time to Progression</b>	9.4 months	6.0 months	0.72 (0.62, 0.83) <sup>1</sup>
			P<0.0001
<b>Objective Response Rate</b>			
(CR + PR)	145 (32%)	95 (21%)	1.77 (1.31, 2.39) <sup>2</sup>
			P=0.0002
(CR)	42 (9%)	15 (3%)	2.99 (1.63, 5.47) <sup>2</sup>
			P=0.0004
<b>Duration of Objective Response</b>			
Median	18 months	16 months	
	(N=145)	(N=95)	
<b>Overall Survival</b>	35 months>	32 months	
	(N=458)	(N=458)	P=0.5136 <sup>3</sup>

<sup>1</sup>Hazard ratio

<sup>2</sup>Odds ratio

<sup>3</sup>Overall logrank test

Figure 2 shows the Kaplan-Meier curves for TTP.

**Figure 2 Kaplan-Meier Estimates of Time to Progression (Tamoxifen Study)**

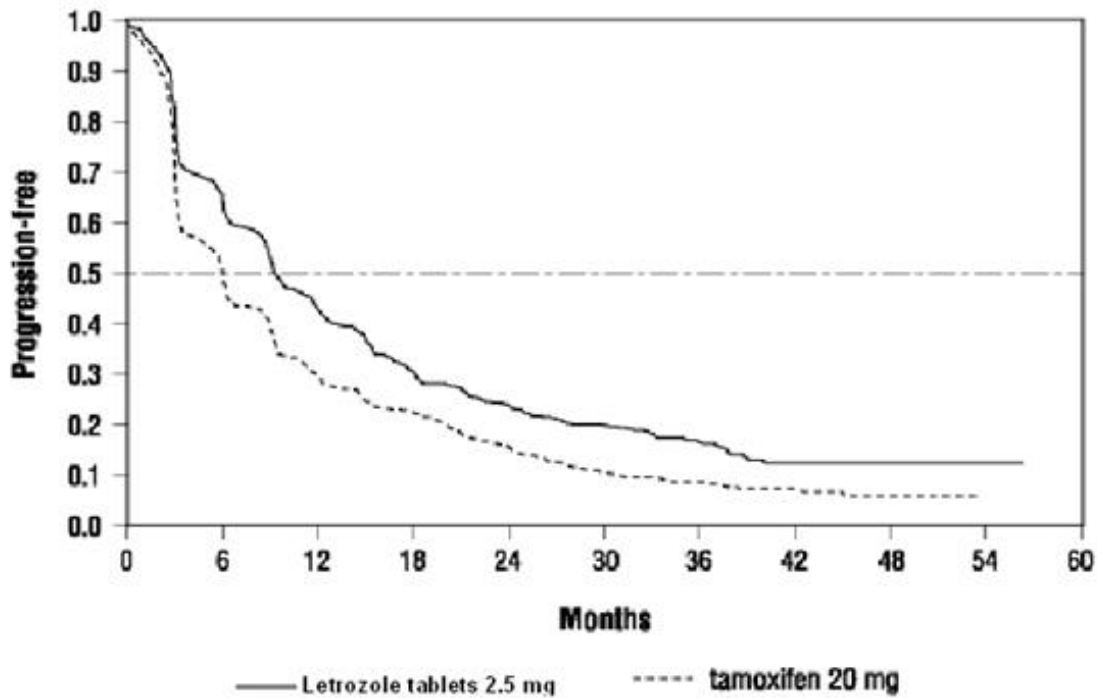


Table 12 shows results in the subgroup of women who had received prior antiestrogen adjuvant therapy, Table 13, results by disease site and Table 14, the results by receptor status.

**Table 12: Efficacy in Patients Who Received Prior Antiestrogen Therapy**

Variable	Letrozole tablets 2.5 mg N=84	tamoxifen 20 mg N=83
<b>Median Time to progression (95% CI)</b>	8.9 months (6.2, 12.5)	5.9 months (3.2, 6.2)
Hazard Ratio for TTP (95% CI)	0.60 (0.43, 0.84)	
<b>Objective Response Rate</b>		
(CR + PR)	22 (26%)	7 (8%)
Odds Ratio for Response (95% CI)	3.85 (1.50, 9.60)	

Hazard ratio less than 1 or odds ratio greater than 1 favors letrozole tablets; hazard ratio greater than 1 or odds ratio less than 1 favors tamoxifen

**Table 13: Efficacy by Disease Site**

	Letrozole tablets 2.5 mg	tamoxifen 20 mg
<b>Dominant Disease Site</b>		
<b>Soft Tissue:</b>	N=113	N=115
Median TTP	12.1 months	6.4 months
Objective Response Rate	50%	34%
<b>Bone:</b>	N=145	N=131
Median TTP	9.5 months	6.3 months
Objective Response Rate	23%	15%
<b>Viscera:</b>	N=195	N=208
Median TTP	8.3 months	4.6 months



Objective Response Rate	28%	17%
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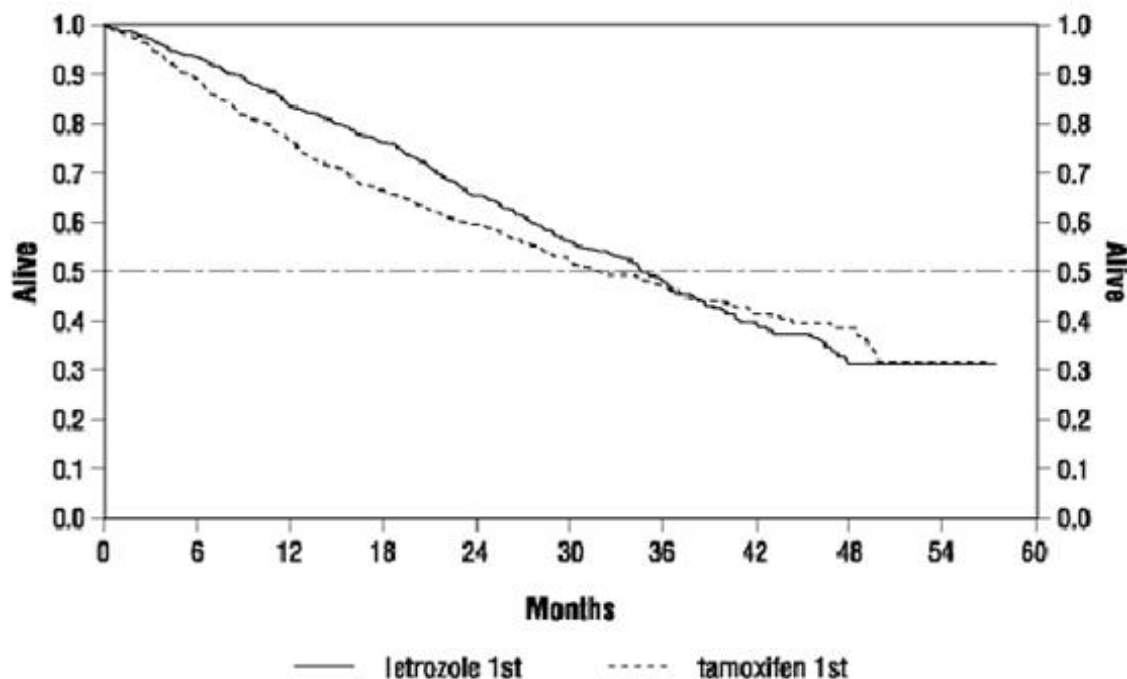
**Table 14: Efficacy by Receptor Status**

Variable	Letrozole tablets 2.5 mg	tamoxifen 20 mg
<b>Receptor Positive</b>	N=294	N=305
Median Time to Progression (95% CI)	9.4 months (8.9, 11.8)	6.0 months (5.1, 8.5)
Hazard Ratio for TTP (95% CI)	0.69 (0.58, 0.83)	
Objective Response Rate (CR+PR)	97 (33%)	66 (22%)
Odds Ratio for Response (95% CI)	1.78 (1.20, 2.60)	
<b>Receptor Unknown</b>	N=159	N=159
Median Time to Progression (95% CI)	9.2 months (6.1, 12.3)	6.0 months (4.1, 6.4)
Hazard Ratio for TTP (95% CI)	0.77 (0.60, 0.99)	
Objective Response Rate (CR+PR)	48 (30%)	29 (20%)
Odds Ratio for Response (95% CI)	1.79 (1.10, 3.00)	

Hazard ratio less than 1 or odds ratio greater than 1 favors letrozole tablets; hazard ratio greater than 1 or odds ratio less than 1 favors tamoxifen.

Figure 3 shows the Kaplan-Meier curves for survival

**Figure 3 Survival by Randomized Treatment Arm**



**Legend:** Randomized letrozole tablets: n=458, events 57%, median overall survival 35 months (95% CI 32 to 38 months)

Randomized tamoxifen: n=458, events 57%, median overall survival 32 months (95% CI 28 to 37 months)

Overall logrank P=0.5136 (i.e., there was no significant difference between treatment arms in overall survival).

The median overall survival was 35 months for the letrozole tablets group and 32 months for the tamoxifen group, with a P-value 0.5136. Study design allowed patients to cross over upon progression to the other therapy. Approximately 50% of patients crossed over to the opposite treatment arm and

almost all patients who crossed over had done so by 36 months. The median time to crossover was 17 months (letrozole tablets to tamoxifen) and 13 months (tamoxifen to letrozole tablets). In patients who did not cross over to the opposite treatment arm, median survival was 35 months with letrozole tablets (n=219, 95% CI 29 to 43 months) vs 20 months with tamoxifen (n=229, 95% CI 16 to 26 months).

#### 14.5 Second-Line Treatment of Advanced Breast Cancer

Letrozole tablets were initially studied at doses of 0.1 mg to 5.0 mg daily in six non-comparative Phase I/II trials in 181 postmenopausal estrogen/progesterone receptor positive or unknown advanced breast cancer patients previously treated with at least antiestrogen therapy. Patients had received other hormonal therapies and also may have received cytotoxic therapy. Eight (20%) of forty patients treated with letrozole tablets 2.5 mg daily in Phase I/II trials achieved an objective tumor response (complete or partial response).

Two large randomized, controlled, multinational (predominantly European) trials were conducted in patients with advanced breast cancer who had progressed despite antiestrogen therapy. Patients were randomized to letrozole tablets 0.5 mg daily, letrozole tablets 2.5 mg daily, or a comparator (megestrol acetate 160 mg daily in one study; and aminoglutethimide 250 mg b.i.d. with corticosteroid supplementation in the other study). In each study over 60% of the patients had received therapeutic antiestrogens, and about one-fifth of these patients had had an objective response. The megestrol acetate controlled study was double-blind; the other study was open label. Selected baseline characteristics for each study are shown in Table 15.

**Table 15: Selected Study Population Demographics**

Parameter	megestrol acetate study	aminoglutethimide study
<b>No. of Participants</b>	552	557
<b>Receptor Status</b>		
ER/PR Positive	57%	56%
ER/PR Unknown	43%	44%
Adjuvant Only	33%	38%
Therapeutic +/- Adj.	66%	62%
<b>Sites of Disease</b>		
Soft Tissue	56%	50%
Bone	50%	55%
Viscera	40%	44%

Confirmed objective tumor response (complete response plus partial response) was the primary endpoint of the trials. Responses were measured according to the Union Internationale Contre le Cancer (UICC) criteria and verified by independent, blinded review. All responses were confirmed by a second evaluation 4-12 weeks after the documentation of the initial response.

Table 16 shows the results for the first trial, with a minimum follow-up of 15 months, that compared letrozole tablets 0.5 mg, letrozole tablets 2.5 mg, and megestrol acetate 160 mg daily. (All analyses are unadjusted.)

**Table 16: Megestrol Acetate Study Results**

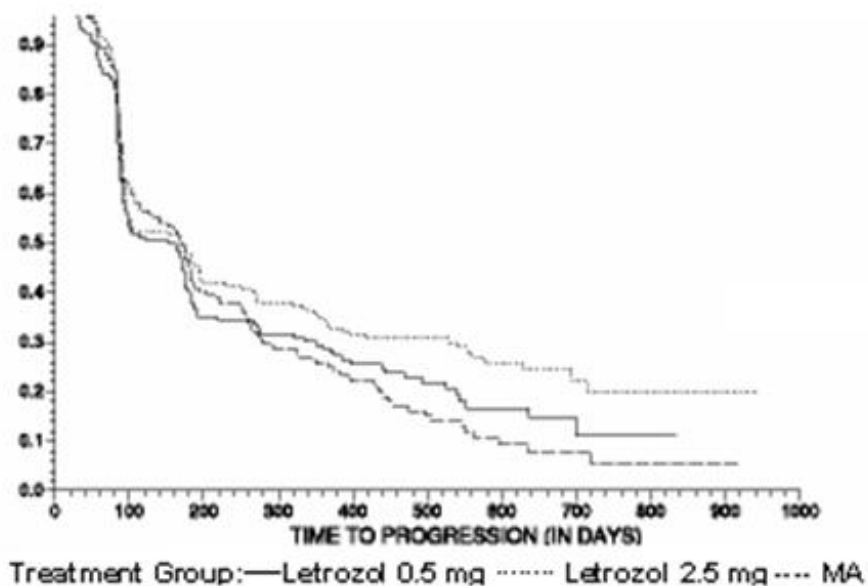
	<b>Letrozole tablets 0.5 mg N=188</b>	<b>Letrozole tablets 2.5 mg N=174</b>	<b>megestrol acetate N=190</b>
<b>Objective Response (CR + PR)</b>	22 (11.7%)	41 (23.6%)	31 (16.3%)
<b>Median Duration of</b>	552 days	(Not reached)	561 days

<b>Response</b>			
<b>Median Time to Progression</b>	154 days	170 days	168 days
<b>Median Survival</b>	633 days	730 days	659 days
<b>Odds Ratio for Response</b>	Letrozole tablets 2.5: Letrozole tablets 0.5=2.33 (95% CI: 1.32, 4.17); P=0.004*	Letrozole tablets 2.5: megestrol=1.58 (95% CI: 0.94, 2.66); P=0.08*	
<b>Relative Risk of Progression</b>	Letrozole tablets 2.5: Letrozole tablets 0.5=0.81 (95% CI: 0.63, 1.03); P=0.009*	Letrozole tablets 2.5: megestrol=0.77 (95% CI: 0.60, 0.98); P=0.03*	

\*two-sided P-value

The Kaplan-Meier curves for progression for the megestrol acetate study are shown in Figure 4.

**Figure 4 Kaplan-Meier Estimates of Time to Progression (Megestrol Acetate Study)**



The results for the study comparing letrozole tablets to aminoglutethimide, with a minimum follow-up of 9 months, are shown in Table 17. (Unadjusted analyses are used).

**Table 17: Aminoglutethimide Study Results**

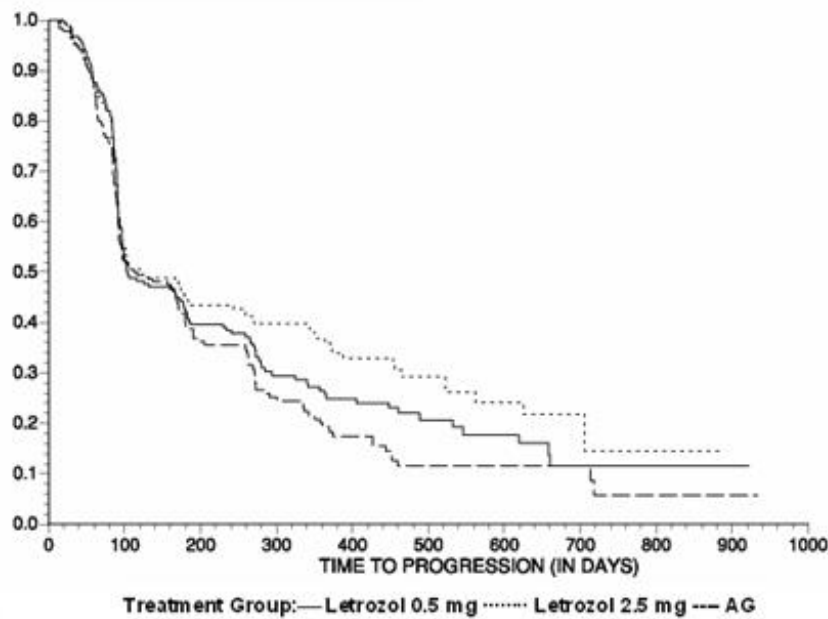
	<b>Letrozole tablets 0.5 mg N=193</b>	<b>Letrozole tablets 0.5 mg N=193</b>	<b>aminoglutethimide N=179</b>
<b>Objective Response (CR + PR)</b>	34 (17.6%)	34 (18.4%)	22 (12.3%)
Median Duration of Response	619 days	706 days	450 days
Median Time to Progression	103 days	123 days	112 days

Median Survival	636 days	792 days	592 days
Odds Ratio for Response	Letrozole tablets 2.5: Letrozole tablets 0.5=1.05		Letrozole tablets 2.5: aminoglutethimide=1.61
	(95% CI: 0.62, 1.79); P=0.85*		(95% CI: 0.90, 2.87); P=0.11*
Relative Risk of Progression	Letrozole tablets 2.5: Letrozole tablets 0.5=0.86		Letrozole tablets 2.5: aminoglutethimide=0.74
	(95% CI: 0.68, 1.11); P=0.25*		(95% CI: 0.57, 0.94); P=0.02*

\*two-sided P-value

The Kaplan-Meier curves for progression for the aminoglutethimide study is shown in Figure 5.

**Figure 5 Kaplan-Meier Estimates of Time to Progression (Aminoglutethimide Study)**



## 16 HOW SUPPLIED/STORAGE AND HANDLING

Packaged in HDPE bottles with a child resistant closure.

2.5 milligram tablets

Bottles of 30 tablets.....NDC 24724-030-03

Bottles of 100 tablets.....NDC 24724-030-01

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

## 17 PATIENT COUNSELING INFORMATION

### Information for Patients

**Pregnancy:** Letrozole tablets are contraindicated in women of premenopausal endocrine status. The

physician needs to discuss the necessity of adequate contraception with women who have the potential to become pregnant including women who are perimenopausal or who recently became postmenopausal, until their postmenopausal status is fully established.

**Fatigue and Dizziness:** Since fatigue and dizziness have been observed with the use of letrozole tablets and somnolence was uncommonly reported, caution is advised when driving or using machinery.

**Bone Effects:** Consideration should be given to monitoring bone mineral density.

**Manufactured by:**

USV Limited

H-17/H-18, OI DC, Mahatma Gandhi Udyog Nagar,

Dabhel, Daman 396210, India

**Manufactured for:**

Indicus Pharma LLC,

12308 Richmond Run

Drive Raleigh, NC 27614

Rev: 12/2010

**PACKAGE LABEL. PRINCIPAL DISPLAY PANEL**

**NDC 24724-030-03**

**30 Tablets**

**Letrozole Tablets, USP**

**2.5 mg**

Mfg for:

Indicus Pharma LLC,

12308 Richmond Run Dr.

Raleigh, NC 27614

Rx Only

<p><b>Rx only</b></p> <p><b>Usual Dosage:</b> See package insert.</p> <p><b>Store at 25°C (77°F); [see USP Controlled Room Temperature]. Excursions permitted to 15-30°C (59-86°F).</b></p> <p><b>Dispense in tight container (USP).</b></p> <p>Keep this and all drugs out of the reach of children.</p>	<p>NDC 24724-030-03</p> <p><b>Letrozole Tablets USP,</b></p> <p><b>2.5 mg</b></p> <p></p> <p>Mfg. for : Indicus Pharma LLC, 12308 Richmond Run Dr. Raleigh, NC 27614.</p>	<p><b>30 Tablets</b></p> <p>M.L. No. DD/291 Lot No. Exp. Date :</p> <p></p> <p>0 24724 03003 7</p> <p>Mfd. by : USV LIMITED H-17/H-18, OI DC, Mahatma Gandhi Udyog Nagar, Dabhel, Daman 396 210, India.</p>	<p>IND 0041 12/10</p>
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**LETROZOLE**

letrozole tablet

**Product Information**

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:24724-030
<b>Route of Administration</b>	ORAL		

**Active Ingredient/Active Moiety**

<b>Ingredient Name</b>	<b>Basis of Strength</b>	<b>Strength</b>
LETROZOLE (UNII: 7LKK855W8I) (LETROZOLE - UNII:7LKK855W8I)	LETROZOLE	2.5 mg

**Inactive Ingredients**

<b>Ingredient Name</b>	<b>Strength</b>
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
STARCH, CORN (UNII: O8232NY3SJ)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
WATER (UNII: 059QF0KO0R)	
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)	

**Product Characteristics**

<b>Color</b>	WHITE (white to off-white)	<b>Score</b>	no score
<b>Shape</b>	ROUND	<b>Size</b>	6 mm
<b>Flavor</b>		<b>Imprint Code</b>	
<b>Contains</b>			

**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:24724-030-03	30 in 1 BOTTLE		
2	NDC:24724-030-01	100 in 1 BOTTLE		

**Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA201804	06/15/2011	

**Labeler** - INDICUS PHARMA LLC (793870606)**Establishment**

Name	Address	ID/FEI	Business Operations
USV Limited		650434348	API MANUFACTURE, MANUFACTURE

