

rozole) tablets for oral administration contain 1 mg of anastrozole, a non-steroidal aromatase inhibitor. It is chemically inzenediacetonitrile, α , α , α' , α' -tetramethyl-5-(1H-1,2,4-triazol-1-ylmethyl). Its molecular formula is $C_{17}H_{19}N_5$ and its

Anastrozole is an off-white powder with a molecular weight of 293.4. Anastrozole has moderate aqueous solubility (0.5 mg/mL at 25°C); solubility is independent of pH in the physiological range. Anastrozole is freely soluble in methanol, acetone, ethanol, and tetrahydrofuran, and very soluble in acetonitrile.

Each tablet contains as inactive ingredients: lactose, magnesium stearate, hydroxypropylmethylcellulose, polyethylene glycol, povidone, sodium starch glycolate, and titanium dioxide.

CLINICAL PHARMACOLOGY

Mechanism of Action

Many breast cancers have estrogen receptors and growth of these tumors can be stimulated by estrogen. In postmenopausal women, the principal source of circulating estrogen (primarily estradiol) is conversion of adrenally-generated and rotsenedione to estrone by aromatase in peripheral tissues, such as adipose tissue, with further conversion of estrone to estradiol. Many breast cancers also contain aromatase; the importance of tumor-generated estrogens is uncertain. Treatment of therast cancer has included efforts to decrease estrogen levels, by ovariectomy premenopausally and by use of anti-estrogens and progestational agents both pre- and post-menopausally; and these interventions lead to decreased tumor mass or delayed progression of tumor growth in some women.

Anastrozole is a potent and selective non-steroidal aromatase inhibitor. It significantly lowers serum estradiol concentrations and has no detectable effect on formation of adrenal corticostroids or adosterone.

Pharmacokinetics

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Pharmacokinetics

Inhibition of aromatase activity is primarily due to anastrozole, the parent drug. Studies with radiolabeled drug have demonstrated that orally administered anastrozole is well absorbed into the systemic circulation with 83 to 85% of the radiolabel recovered in urine and feces. Food does not affect the extent of absorption. Elimination of anastrozole is primarily via hepatic metabolism (approximately 85%) and nastrozole is primarily via hepatic metabolism (approximately 85%) and nastrozole has a mean terminal elimination half-life of approximately 50 hours in postmenopausal women. The major circulating metabolite of anastrozole, triazole, lacks pharmacologic activity. The pharmacokinetic parameters are similar in patients and in healthy postmenopausal volunteers. The pharmacokinetics of anastrozole are linear over the dose range of 1 to 20 mg and do not change with repeated dosing. Consistent with the approximately 2-day terminal elimination half-life, plasma concentrations approxach steady-state levels at about 7 days of once daily dosing and steady-state levels are approximately three-to four-fold higher than levels observed after a single dose of ARIMIDEX. Anastrozole is 40% bound to plasma proteins in the therapeutic range.

Metabolism and Exerction: Studies in postmenopausal women demonstrated that anastrozole is extensively metabolized with about 10% of the dose excreted in the urine as unchanged drug within 72 hours of dosing, and the remainder (about 60% of the dose) is excreted in the urine as unchanged drug within 72 hours of dosing, and the remainder (about 60% of the dose) is excreted in the urine as unchanged drug within 72 hours of dosing, and the remainder (about 60% of the dose) is excreted in the urine as unchanged drug within 72 hours of dosing, and the remai

of the dose excreted in the urine as unchanged drug within 7.2 hours or ususing, and one treatmined (excess the excess of anastrozole) can metabolitiss. Metabolism of anastrozole occurs by N-dealkylation, hydroxylation and glucuronidation. Three metabolites of anastrozole have been identified in human plasma and urine. The known metabolites are triazole, a glucuronide conjugate of hydroxylanstrozole, and a glucuronide of anastrozole itself. Several minor (less than 5% of the radioactive dose) metabolites have not been identified.

Because renal elimination is not a significant pathway of elimination, total body clearance of anastrozole is unchanged even in severe (creatinine clearance) less than 30 mL/min/1.73m²) renal impairment, dosing adjustment in patients with renal dysfunction is not necessary (see Special Populations and DOSAGE AND ADMINISTRATION sections). Dosage adjustment in patients with renal dysfunction is not necessary (see Special Populations and DOSAGE AND ADMINISTRATION sections). Dosage adjustment is also unnecessary in patients with stable hepatic cirrhosis (see Special Populations and DOSAGE AND ADMINISTRATION sections).

Recar. Estrational propulations and DOSAGE AND ADMINISTRATION sections). The second propulations of the second propulations and propulations and propulations and propulations and propulations are seen over the range <50 to >80 years.

Recar. Estration and estrone suifate levels were similar between Japanese and Caucasian postmenopausal women who received 1 mg of anastrozole daily for 16 days. Anastrozole mean steady-state minimum plasma concentrations in Caucasian and Japanese postmenopausal women were 25.7 and 30.4 ng/ml, respectively.

Renal Insufficiency: Anastrozole pharmacokinetics have been investigated in subjects with severe renal impairment (creatinine clearance < 30 mL/min/1.75m²) compared to controls. Since only about 10% of anastrozole insufficiency. Anastrozole pharmacokinetics have been investigated in subjects with severe renal impairment (preatinine clearanc

Pharmacodynamics

Effect on Estradiol: Mean serum concentrations of estradiol were evaluated in multiple daily dosing trials with 0.5, 1, 3, 5, and 10 mg of ARIMIDEX in postmenopausal women with advanced breast cancer. Clinically significant suppression of serum estradiol was seen with all doses. Doses of 1 mg and higher resulted in suppression of mean serum concentrations of estradiol to the lower limit of detection (3.7 pmol/L). The recommended daily dose, ARIMIDEX in g., reduced estradiol by approximately 70% within 24 hours and by approximately 80% after 14 days of daily dosing. Suppression of serum estradiol was maintained for up to 6 days after cessation of daily dosing with ARIMIDEX in g.

Effect on Corticosteroids: In multiple daily dosing trials with 3, 5, and 10 mg, the selectivity of anastrozole was assessed by examining effects on corticosteroid synthesis. For all doses, anastrozole did not affect cortisol or aldosterone secretion baseline or in response to ACTH. No glucocorticoid or mineralocorticoid replacement therapy is necessary with anastrozole.

Other Endocrine Effects: In multiple daily dosing trials with 5 and 10 mg, thryoid stimulating hormone (TSH) was measured; there was no increase in TSH during the administration of ARIMIDEX dose not possess direct progestogenic, androgenic, or estrogenic activity in animals, but dose perturb the circulating levels of progesterone, androgens, and estrogens.

Clinical Studies

animals, but does perturb the circulating levels of progesterone, androgens, and estrogens.

inical Studies

invant Treatment of Breast Cancer in Postmenopausal Women: A multicenter, double-blind trial (ATAC) randomized 9,366

strong the program of the two treatments for five years or until recurrence of the disease. At the time of the efficacy analysis, women had received a

dian of 31 months of treatment and had been followed for recurrence-free survival; for a median of 33 months.

primary endpoint of the trial is recurrence-free survival; is, time to occurrence of a distant or local recurrence, or contralateral breast mary or death from any cause. Time to distant recurrence and the incidence of contralateral breast primaries were analyzed.

Table 1. Demographic and Resealing Characteristics were familiar among the three treatment groups (see Table 1).

Table 1 - Demographic and Baseline Characteristics for ATAC Trial

Demographic Characteristic	ARIMIDEX 1 mg (*N=3125)	Tamoxifen 20 mg (*N=3116)	ARIMIDEX 1 mg plus Tamoxifen 20 mg (*N=3125)
Mean Age (yrs.)	64.1	64.1	64.3
Age Range (yrs.)	38.1 - 92.8	32.8 - 94.9	37.0 - 92.2
Age Distribution (%)			
<45 yrs.	0.7	0.4	0.5
45-60 yrs.	34.6	35.0	34.5
>60 <70 yrs.	38.0	37.1	37.7
>70 yrs.	26.7	27.4	27.3
Mean Weight (kg)	70.8	71.1	71.3
Receptor Status (%)			
Positive ¹	83.5	83.1	83.8
Negative ²	7.4	8.0	7.0
Other ³	8.8	8.6	9.1
Other Treatment (%) prior to Randomizat	ion		
Mastectomy	47.8	47.3	48.1
Breast conservation ⁴	52.3	52.8	52
Axillary surgery	95.5	95.7	95.2
Radiotherapy	63.3	62.5	62.0
Chemotherapy	22.3	20.8	20.8
Neoadjuvant Ťamoxifen	1.6	1.6	1.7
Primary Tumor Size (%)			
T1 (<u><</u> 2 cm)	63.9	62.9	64.1
T2 (>2 cm and ≤5 cm)	32.6	34.2	32.9
T3 (>5 cm)	2.7	2.2	2.3
Nodal Status (%)			
Node positive	34.9	33.6	33.5
1-3 (# of nodes)	24.4	24.4	24.3
4-9	7.5	6.4	6.8
>9	2.9	2.7	2.3
Tumor Grade (%)			
Well-differentiated	20.8	20.5	21.2
Moderately differentiated	46.8	47.8	46.6
Poorly/undifferentiated	23.7	23.3	23.7
Not assessed/recorded	8.7	8.4	8.5

nvot assessed/recorded 8.7 8.4 8.5

1 Includes patients who were estrogen receptor (ER) positive or progesterone receptor (PgR) positive, or both positive 2 Includes patients with both ER negative and PgR negative receptor status 3 Includes all other combinations of ER and PgR receptor status unknown 4 Among the patients who had breast conservation, radiotherapy was administered to 95.0% of patients in the ARIMIDEX arm, 94.1% in the tarmoxifien arm and 94.5% in the ARIMIDEX plus tarmoxifien arm.

*N=Number of patients randomized to the treatment

The recommended duration of tarmoxifien therapy is five years; continued benefit of tarmoxifien after 3 years has been documented. The results of the ATAC trial in a patient population treated for a median 31 months, thus allow only a preliminary comparison of ARIMIDEX and tarmoxifien therapy. At this time, recurrence-free survival was improved in the ARIMIDEX arm compared to the tarmoxifien arm: Hazard Ratio (HR) = 0.83, 95% c10 c0.51–0.93.

Recurrence-Free survival in the combination treatment arm was similar to that in the tarmoxifien group.

Duration of follow-up in this ongoing trial is too short to permit a mature survival analysis. The duration of therapy on the study arms and frequency of individual events comprising recurrence are described in Table 2.

Table 2 - ATAC Endaoint Summarv

Table 2 - ATAC Endpoint Summary

	ARIMIDEX 1 mg (N=3125)	Tamoxifen 20 mg (N=3116)	ARIMIDEX 1 mg plus Tamoxifen 20 mg (N=3125)			
Median Duration of Therapy (mo.)1	30.9	30.7	30.4			
Range Duration of Therapy (mo.)	<1 to 55.3	<1 to 55.7	<1 to 54.5			
Median Efficacy Follow-up (mo.)	33.6	33.2	32.9			
Range Follow-up (mo.)	<1 to 55.2	<1 to 55.7	<1 to 54.4			
Recurrence-Free Survival						
First Event (n, %)	318 (10.2)	379 (12.2)	383 (12.3)			
Locoregional ²	67 (2.1)	83 (2.7)	81 (2.6)			
Distant	157 (5.0)	181 (5.8)	202 (6.5)			

ARIMIDEX® (anastrozole) Tablets

	ARIMIDEX 1 mg (N=3125)	Tamoxifen 20 mg (N=3116)	ARIMIDEX 1 mg plus Tamoxifen 20 mg (N=3125)
New Contralateral Primaries Invasive Ductal carcinoma in situ Deaths ³	14 (0.4) 9 (0.3) 5 (0.2)	33 (1.1) 30 (1.0) 3 (<0.1)	28 (0.9) 23 (0.7) 5 (0.2)
Death - breast cancer Death - other reason	4 (0.12) 76 (2.4)	1 (0.03) 81 (2.6)	0 (0.00) 72 (2.3)

1 Based on treatment received 2 Includes new primary ipsilateral breast cancer (including DCIS), and recurrences at the chest wall, axillary and other regional lymph odes ncludes only deaths that were first events

3 Includes only deaths that were first events
First Line Therapy in Postmenopausal Women with Advanced Breast Cancer: Two double-blind, well-controlled clinical studies of similar design (0030, a North American study and 0027, a predominately European study) were conducted to assess the efficacy of ARIMIDEX compared with tamoxifen as first-line therapy for hormone receptor positive or hormone receptor unknown locally advanced or metastatic breast cancer in postmenopausal women. A total of 1021 patients between the ages of 30 and 92 years old were randomized to receive trial treatment. Patients were randomized to receive 1 mg of ARIMIDEX once daily or 20 mg of tamoxifen once daily. The primary end points for both trials were time to tumor progression, objective tumor responser rate, and safety.
Demographics and other baseline characteristics, including patients who had measurable and no measurable disease, patients who were given previous adjuvant therapy, the site of metastatic disease and ethnic origin were similar for the two treatment groups for both trials. The following table summarizes the hormone receptor status at entry for all randomized patients in trials 0030 and 0027.

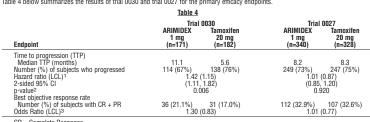
Table 3

	Number (%) of subjects					
		Trial 0030		0027		
Receptor Status	ARIMIDEX 1 mg (n=171)	Tamoxifen 20 mg (n=182)	ARIMIDEX 1 mg (n=340)	Tamoxifen 20 mg (n=328)		
ER+ and/or PgR+ ER unknown, PgR unknown	151 (88.3) 19 (11.1)	162 (89.0) 20 (11.0)	154 (45.3) 185 (54.4)	144 (43.9) 183 (55.8)		

ER = Estrogen receptor PgR = Progesterone receptor

the primary endpoints, trial 0030 showed ARIMIDEX was at least as effective as tamoxifen for objective tumor response rate. IMIDEX had a statistically significant advantage over tamoxifen (p=0.006) for time to tumor progression (see Table 4 and Figure 1): 10027 showed ARIMIDEX was at least as effective as tamoxifen for objective tumor response rate and time to tumor progression (see let 4 and Figure 2).

10 4 below summarizes the results of trial 0030 and trial 0027 for the primary efficacy endpoints.



- CR = Complete Response PR = Partial Response CI = Confidence Interval LCL = Lower Confidence Limit 1 Tamoxifen:ARIMIDEX
- Two-sided Log Rank ARIMIDEX:Tamoxifen

Figure 1- Kaplan-Meier probability of time to disease progression for all randomized patients (intent-to-treat) in Trial 0030

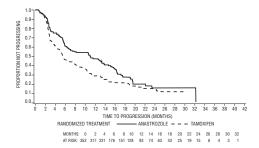
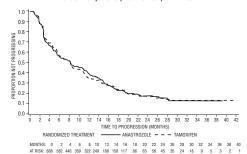


Figure 2 - Kaplan-Meier probability of time to progression for all randomized patients (intent-to-treat) in Trial 0027



Results from the secondary endpoints of time to treatment failure, duration of tumor response, and duration of clinical benefit were supportive of the results of the primary efficacy endpoints. There were too few deaths occurring across treatment groups of both trials to draw conclusions on overall survival differences.

Second Line Therapy in Postmenopausal Women with Advanced Breast Cancer who had Disease Progression following Tamoxifen Therapy: Anastrozole was studied in two well-controlled clinical trials (0004, a North American study, 0005, a predominately European study) in postmenopausal women with advanced breast cancer who had disease progression following Tamoxifen therapy in Postmenopausal women with advanced breast cancer who had disease progression following tamoxifen therapy for either advanced or early breast cancer. Some of the patients had also received previous cytotoxic treatment. Most patients were EFE-positive, a smaller fraction were EFL-unknown or EFR-negative, the EFR-negative patients were eligible only if they had had a positive response to tamoxifen. Eligible patients with measurable and non-measurable disease were randomized to receive either a single daily dose of 1 mg or 10 mg of ARIMIDEX or megestroal cactelated a 40 mg four times a day. The studies were double-blinded with respect to ARIMIDEX mire to progression and objective response (only patients with measurable disease could be considered partial responders) rates were the primary efficacy variables. Objective response rates were calculated hased on the Union Internationale Could with responders of the progression and objective response rates were calculated hased on the Union Internationale Could with respect to ARIMIDEX mire to progression and objective response (only patients with measurable disease could be considered partial responders) rates were the primary efficacy variables. Objective response rates were calculated hased on the Union Internationale Could reference to the constitution of the patients were the positive

relatistases. As shown in the table below, similar results were observed among treatment groups and between the two trials. None of the within-trial differences were statistically significant.

	Table 5		
	ARIMIDEX 1 mg	ARIMIDEX 10 mg	Megestrol Acetate 160 mg
Trial 0004			
(N. America)	(n=128)	(n=130)	(n=128)
Median Follow-up (months)*	`31.3 ´	` 30.9 ´	` 32.9 ´
Median Time to Death (months)	29.6	25.7	26.7
2 Year Survival Probability (%)	62.0	58.0	53.1
Median Time to Progression (months)	5.7	5.3	5.1
Objective Response (all patients) (%)	12.5	10.0	10.2
Stable Disease for >24 weeks (%)	35.2	29.2	32.8
Progression (%)	86.7	85.4	90.6
Trial 0005			
(Europe, Australia, S. Africa)	(n=135)	(n=118)	(n=125)
Median Follow-up (months)*	`31.0 ´	` 30.9 ´	31.5
Median Time to Death (months)	24.3	24.8	19.8
2 Year Survival Probability (%)	50.5	50.9	39.1
Median Time to Progression (months)	4.4	5.3	3.9
Objective Response (all patients) (%)	12.6	15.3	14.4
Stable Disease for >24 weeks (%)	24.4	25.4	23.2
Progression (%)	91.9	89.8	92.0

More than 1/3 of the patients in each treatment group in both studies had either an objective response or stabilization of their disease for greater than 24 weeks. Among the 263 patients who received ARIMIDEX 1 mg, there were 11 complete responders and 22 partial responders. In patients who had an objective response more than 80% were still responding at 6 months from randomization and more than 45% were still responding at 12 months from randomization. When data from the two controlled trials are pooled, the objective response rates and median times to progression and death were similar for patients randomized to ARIMIDEX 1 mg and megestrol acetate. There is, in this data, no indication that ARIMIDEX 10 mg is superior to ORIMINEX 1 on.

Table 6							
Trials 0004 & 0005 (Pooled Data)	ARIMIDEX 1 mg N=263	ARIMIDEX 10 mg N=248	Megestrol Acetate 160 mg N=253				
Median Time to Death (months)	26.7	25.5	22.5				
2 Year Survival Probability (%)	56.1	54.6	46.3				
Median Time to Progression (months) Objective Response (all patients) (%)	4.8	5.3	4.6				
	12.5	12.5	12.3				

Objective response rates and median times to progression and death for ARIMIDEX 1 mg were similar to megestrol acetate for women over or under 65. There were too few non-white patients studied to draw conclusions about racial differences in response.

ARIMIDEX is indicated for adjuvant treatment of postmenopausal women with hormone receptor positive early breast cancer. The effectiveness of ARIMIDEX in early breast cancer is based on an analysis of recurrence-free survival in patients treated for a median of 31 months (see CLINICAL PHARMACOLOGY - Clinical Studies subsection). Further follow-up of study patients will be required to determine

s. ted for the first-line treatment of postmenopausal women with hormone receptor positive or hormone receptor unknown

ARIMIDEX is indicated to the inst-line treatment of positive injurious violent with monitor receptor positive information levelptor unknown.

ARIMIDEX is indicated for the treatment of advanced breast cancer in postmenopausal women with disease progression following tamoxifen therapy. Patients with ER-negative disease and patients who did not respond to previous tamoxifen therapy rarely responded to ARIMIDEX.

CONTRAINDICATIONS

ARIMIDEX is contraindicated in any patient who has shown a hypersensitivity reaction to the drug or to any of the excipients.

WARNINGS

WARNINGS

ARIMIDEX can cause fetal harm when administered to a pregnant woman. Anastrozole has been found to cross the placenta following oral administration of 0.1 mg/kg in rats and rabbits (about 1 and 1.9 times the recommended human dose, respectively, on a mg/m² basis). Studies in both rats and rabbits at doses equal to or greater than 0.1 and 0.02 mg/kg/day, respectively (about 1 and 1.7, respectively, the recommended human dose on a mg/m² basis), administered during the period of organogenesis showth tat anastrozole increased pregnancy loss (increased pre- and/or post-implantation loss, increased resorption, and decreased numbers of live fetuses); effects were dose related in rats. Placental weights were significantly increased in rats at doses of 0.1 mg/kg/day or make the doses of 1.0 mg/kg/day (make) to produced plasma anastrozole Cassma, and ALICPA, that were 19 times and 9 times higher than the respective values found in postmenopausal volunteers at the recommended dose). There was no evidence of teratogenicity in rats administered dose up to 1.0 mg/kg/day. In abbits, anastrozole caused pregnancy. There was no evidence of greater than 1.0 mg/kg/day (about 16 times the recommended human dose on a mg/m² basis); there was no evidence of teratogenicity in rabbits administered 0.2 mg/kg/day (about 3 times the recommended human dose on a mg/m² basis); There was no evidence of teratogenicity in rabbits administered 0.2 mg/kg/day (about 3 times the recommended human dose on a mg/m² basis); There was no evidence of teratogenicity in rabbits administered 0.2 mg/kg/day (about 3 times the recommended human and so en a mg/m² basis); There was no evidence of teratogenicity in rabbits administered 0.2 mg/kg/day (about 3 times the recommended human and so en a mg/m² basis); There was no evidence of teratogenicity in rabbits administered 0.2 mg/kg/day (about 16 times the recommended human dose on a mg/m² basis); Th

PRECAUTIONS

General: Before starting treatment with ARIMIDEX, pregnancy must be excluded (see WARNINGS). ARIMIDEX should be administered under the supervision of a qualified physician experienced in the use of anticancer agents.

Laboratory Tests: During the ATAC trial, more patients receiving ARIMIDEX were reported to have an elevated serum cholesterol compared to patients receiving tamoxine (7% versus 39%, respectively).

Drug Interactions: (See CLINICAL PHARIMACOLOGY) Anastrozole inhibited in vitro metabolic reactions catalyzed by cytochromes P450 A2, 2089, and 3A4 but only at relatively high concentrations. Anastrozole did not inhibit P450 2A6 or the polymorphic P450 2D6 in human liver microsomes. Anastrozole did not after the pharmacokinetics of antipyrine, although there have been no formal interaction studies other than with antipyrine, based on these in vivo and in vitro studies, it is unlikely that co-administration of a 1 mg dose of ARIMIDEX with other drugs will result in clinically significant drog inhibition of cytochrome P450-mediated mobilism of the other drugs. An interaction study with warfarin showed no clinically significant effect of anastrozole on warfarin pharmacokinetics or anticoagulant activity.

Animuex with other drugs will result in clinically significant drug inhibition of cytochrome P450-mediated metabolism of the other drugs. An interaction study with warfarin showed no clinically significant effect of anastrozole on warfarin pharmacokinetics or anticoagulant activity.

Clinical and pharmacokinetic results from the ATAC trial suggest that tamoxifen should not be administered with anastrozole (see CLINICAL PHARMACOLOGY - Drug Interactions and Clinical Studies subsections). Co-administration of anastrozole and tamoxifen resulted in a reduction of anastrozole plasma levels by 27% compared with those achieved with anastrozole alone. Estrogen-containing therapies should not be used with ARIMIDEX as they may diminish its pharmacologic action.

Drug/Laboratory Test Interactions: No clinically significant changes in the results of clinical laboratory tests have been observed.

Carcinogenesis: A conventional carcinopenesis study in rats at doses of 1.0 to 25 mg/kg/day (about 10 to 243 times the daily maximum recommended human dose on a mg/m² basis) administered by oral gavage for up to 2 years revealed an increase in the incidence of hepatocellular adenoma and carcinoma and uterine estromal polyps in females and thyroid adenoma in males at the high dose. A dose related increase was observed in the incidence of ovarian and uterine hyperplasia in females. At 25 mg/kg/day, labama AUC₀₋₂₄ hr, levels in rats were 110 to 125 times higher than the level exhibited in postmenopausal volunteers at the recommended dose. A separate carcinogenicity study in mice at oral doses of 5 to 50 mg/kg/day (about 24 to 243 times the daily maximum recommended dose. A separate carcinogenicity study in mice at oral doses of a material in enicidence of benign ovarian stromal, epithelia dranulosa cell tumors at all dose levels. A dose related increase in the incidence of oral penales in the incidence of ovarian hyperplasia was also observed in female mice. These ovarian changes are considered to be rodent-specific effects of aromat

premenpansal women.

Pregnancy

Pregnancy

Pregnancy

Pregnancy

Pregnancy

Pregnancy

Pregnancy

Category D (See WARNINGS)

Nursing Mothers: It is not known if anastrozole is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when ARIMIDEX is administered to a nursing woman (see WARNINGS and PRECAUTIONS).

Pediatric Use: The safety and efficacy of ARIMIDEX in pediatric patients have not been established.

Gerlatric Use: In studies 0303 and 0027 about 50% of patients were 65 or older. Patients _ 65 per soft age regardless of randomized treatment. In studies 0004 and 0005

50% of patients were 65 or older. Response rates and time to progression were similar for the over 65 and younger patients. In the ATAC

Gulyant Study, 35% of patients were 450 tears of age; 33% were >60 to 27% overs of age; and 27% were >70 years of age; and 27% were >70 years of age. The number of events by age group were insufficient to perform a subset efficacy analysis.

Adjuvant Therapy: The median duration of adjuvant treatment for safety evaluation was 37.3 months, 36.9 months, and 36.5 months for patients receiving ARIMIDEX 1 mg, tamoxifen 20 mg, and the combination of ARIMIDEX 1 mg plus tamoxifen 20 mg, respectively. Adverse events occurring with an incidence of at least 5% in any treatment group during treatment or within 14 days of the end of treatment are presented in Table 7.

Table 7 - Adverse events occurring with an incidence of at least 5% in any treatment group during treatment, or within 14 days of the end of treatment

		Number (%) of patient	
Body system and adverse event by COSTART-preferred term*	ARIMIDEX 1 mg (N=3092)	Tamoxifen 20 mg (N=3093)	ARIMIDEX 1 mg plus Tamoxifen 20 mg (N=3098)
Body as a whole			
Asthenia	512 (17)	491 (16)	468 (15)
Pain	461 (15)	435 (14)	407 (13)
Back Pain	256 (8)	255 (8)	258 (8)
Headache	277 (9)	216 (7)	214 (7)
Abdominal Pain	227 (7)	228 (7)	219 (7)
Infection	223 (7) 221 (7)	225 (7) 221 (7)	211 (7) 226 (7)
Accidental Injury Flu Syndrome	154 (5)	170 (5)	170 (5)
Chest Pain	164 (5)	122 (4)	152 (5)
Cardiovascular	104 (3)	122 (4)	132 (3)
Vasodilatation	1082 (35)	1246 (40)	1261 (41)
Hypertension	292 (9)	252 (8)	270 (9)
Digestive	202 (0)	202 (0)	210 (3)
Nausea	307 (10)	298 (10)	324 (10)
Constipation	201 (7)	214 (7)	232 (7)
Diarrhea	227 (7)	186 (6)	193 (6)
Dyspepsia	166 (5)	137 (4)	156 (5)
Gastrointestinal Disorder	155 (5)	122 (4)	127 (4)
Hemic and Lymphatic			
Lymphoedema	267 (9)	299 (10)	296 (10)
Metabolic and Nutritional		(0)	
Peripheral Edema	255 (8)	275 (9)	281 (9)
Weight Gain	253 (8)	250 (8)	264 (9)
Hypercholesteremia	210 (7)	79 (3)	72 (2)
Musculoskeletal	404 (4.4)	044 (44)	204 (40)
Arthritis Arthrolain	431 (14)	344 (11) 251 (8)	364 (12)
Arthralgia Osteoporosis	390 (13) 229 (7)	161 (5)	265 (9) 174 (6)
Fracture	219 (7)	137 (4)	178 (6)
Bone Pain	165 (5)	149 (5)	143 (5)
Arthrosis	179 (6)	136 (4)	119 (4)
Nervous System	(0)	100 (1)	(.)
Depression	348 (11)	341 (11)	342 (11)
Insomnia	266 (9)	245 (8)	227 (7)
Dizziness	198 (6)	207 (7)	190 (6)
Anxiety	168 (5)	157 (5)	140 (5)
Paraesthesia	195 (6)	116 (4)	120 (4)
Respiratory			
Pharyngitis	376 (12)	359 (12)	350 (11)
Cough Increased	212 (7)	237 (8)	203 (7)
Dyspnea	186 (6)	185 (6)	175 (6)
Skin and Appendages	200 (10)	004 (44)	200 (11)
Rash	300 (10)	331 (11)	326 (11)
Sweating Uroqenital	121 (4)	165 (5)	142 (5)
Leukorrhea	75 (2)	265 (9)	277 (9)
Urinary Tract Infection	192 (6)	252 (8)	228 (7)
Breast Pain	205 (7)	136 (4)	182 (6)
Vulvovaginitis	180 (6)	134 (4)	134 (4)
vaivovagiiitis	100 (0)		(./

COSTART Coding Symbols for Thesaurus of Adverse Reaction Terms.

N=Number of patients receiving the treatment.

*A patient may have had more than 1 adverse event, including more than 1 adverse event in the same body system

Non-pathologic fractures were reported more frequently in the ARIMIDEX-treated patients (219 [7%]) than in the tamoxifen-treated patients (137 [4%]).

Cratin adverse events and combinations of adverse events were prospectively specified for analysis, based on the known pharmacologic properties and side effect profiles of the two drugs (see Table 8). Patients receiving ARIMIDEX had an increase in musculoskeletal events and fractures (including fractures of spine, hip and wrist) compared with patients receiving tamoxifen. Patients receiving ARIMIDEX had a decrease in hot flashes, vaginal bleeding, vaginal discharge, endometrial cancer, venous thromboembolic events (including deep venous thrombosis) and ischemic cerebrovascular events compared with patients receiving tamoxifen.

Table 8 - Number (%) of patients with Pre-specified Adverse Event in ATAC Trial ARIMIDEX

	N=3092 (%)	N=3093 (%)	Odds-Ratio	95% CI	
All Fractures	224 (7)	145 (5)	1.59	1.28 - 1.97	
Fractures of Spine, Hip, Wrist	89 (3)	62 (2)	1.45	1.04 - 2.04	
Musculo-skeletal Disorders1	940 (30)	737 (24)	1.41	1.28 - 1.55	
Ischemic Cardiovascular Disease	92 (3)	74 (2)	1.25	0.91 - 1.72	
Asthenia	513 (17)	491 (16)	1.05	0.93 - 1.20	
Nausea and Vomiting	348 (11)	342 (11)	1.02	0.88 - 1.19	
Mood Disturbances	521 (17)	511 (17)	1.02	0.90 - 1.16	
Cataracts	128 (4)	140 (5)	0.91	0.71 - 1.17	
Hot Flashes	1082 (35)	1246 (40)	0.80	0.73 - 0.87	
Venous Thromboembolic Events	73 (2)	120 (4)	0.60	0.44 - 0.81	
Deep Venous Thromboembolic Events	40 (1)	60 (2)	0.66	0.43 - 1.00	
Ischemic Cerebrovascular Event	40 (1)	74 (2)	0.53	0.35 - 0.80	
Vaginal Bleeding	147 (5)	270 (9)	0.52	0.42 - 0.64	
Vaginal Discharge	94 (3)	378 (12)	0.23	0.18 - 0.28	
Endometrial Cancer	3 (0.1)	15 (Ò.5)	0.20	0.04 - 0.70	

¹ Refers to joint symptoms, including arthritis, arthrosis and arthralgia.

ARIMIDEX® (anastrozole) Tablets

Angina pectoris was reported more frequently in the ARIMIDEX-treated patients (52 [1.7%]) than in the tamoxifen-treated patients (30 [1.0%]); the incidence of myocardial infarction was comparable (ARIMIDEX 24 patients [0.8%]; tamoxifen 25 patients [0.8%]). Preliminary results from the ATAC trial bone substudy demonstrated that patients receiving ARIMIDEX had a mean decrease in both lumbar spine and total hip bone mineral density (BMD) compared to baseline. Patients receiving tamoxifen had a mean increase in both lumbar spine and total hip BMD compared to baseline. Patients receiving tamoxifen had a mean increase in both lumbar spine and total hip BMD compared to baseline. Patients receiving tamoxifen had a mean increase in both lumbar spine and total hip BMD compared to baseline. Patients receiving tamoxifen had a mean increase in both lumbar spine and total hip BMD compared to baseline. Patients receiving tamoxifen had a mean increase in both lumbar spine and total hip BMD compared to baseline. Patients receiving ARIMIDEX had a mean decrease in both lumbar spine and total hip BMD compared to baseline. Patients receiving ARIMIDEX had a mean decrease in both lumbar spine and total hip BMD compared to baseline. Patients receiving ARIMIDEX had a mean decrease in both lumbar spine and total hip BMD compared to baseline. Patients receiving ARIMIDEX had a mean decrease in both lumbar spine and total hip BMD compared to baseline. Patients receiving ARIMIDEX had a mean decrease in both lumbar spine and total hip BMD compared to baseline. Patients receiving ARIMIDEX had a mean decrease in both lumbar spine and total hip BMD compared to baseline. Patients receiving ARIMIDEX had a mean decrease in both lumbar spine and total hip BMD compared to baseline. Patients receiving ARIMIDEX had a mean decrease in both lumbar spine and total hip BMD compared to baseline. Patients receiving ARIMIDEX had been spine and total hip BMD compared to baseline. Patients receiving ARIMIDEX had been spine and total hip BMD compared to baselin

Table 9

Body System Adverse Eventa	Number (% ARIMIDEX (n=506)) of Subjects Tamoxifen (n=511)	Body System Adverse Eventa	Number (% ARIMIDEX (n=506)) of Subjects Tamoxifen (n=511)
Whole body			Metabolic and Nutritional		
Asthenia	83 (16)	81 (16)	Peripheral Edema	51 (10)	41 (8)
Pain	70 (14)	73 (14)	Musculoskeletal	` '	. ,
Back Pain	60 (12)	68 (13)	Bone Pain	54 (11)	52 (10)
Headache	47 (9)	40 (8)	Nervous	,	,
Abdominal Pain	40 (8)	38 (7)	Dizziness	30 (6)	22 (4)
Chest Pain	37 (7)	37 (7)	Insomnia	30 (6)	38 (7)
Flu Syndrome	35 (7)	30 (6)	Depression	23 (5)	32 (6)
Pelvic Pain	23 (5)	30 (6)	Hypertonia	16 (3)	26 (5)
Cardiovascular	- (-7	(-)	Respiratory	- (-)	. (-)
Vasodilation	128 (25)	106 (21)	Cough Increased	55 (11)	52 (10)
Hypertension	25 (5)	36 (7)	Dyspnea	51 (10)	47 (9)
Digestive	. ,	. ,	Pharyngitis	49 (10)	68 (13)
Nausea	94 (19)	106 (21)	Skin and Appendages	` '	. ,
Constipation	47 (9)	66 (13)	Rash	38 (8)	34 (8)
Diarrhea	40 (8)	33 (6)	Urogenital	(-)	- (-)
Vomiting	38 (8)	36 (7)	Leukorrhea	9 (2)	31 (6)
Anorexia	26 (5)	46 (9)			(-7

a A patient may have had more than 1 adverse event.

Less frequent adverse experiences reported in patients receiving ARIMIDEX 1 mg in either Trial 0030 or Trial 0027 were similar to those reported for second-line therapy. Based on results from second-line therapy and the established safety profile of tamoxifen, the incidences of 9 prespecified adverse event categories potentially causally related to one or both of the therapies because of their pharmacology were statistically analyzed. No significant differences were seen between treatment groups.

	Number (n) and Pe ARIMIDEX 1 mg (n=506)	rcentage of Patients NOLVADEX 20 mg (n=511)	A	umber (n) and Pe IRIMIDEX 1 mg (n=506)	rcentage of Patients NOLVADEX 20 mg (n=511)
Adverse Event Groupa	n (%)	n (%)	Adverse Event Groupa	n (%)	n (%)
Depression Tumor Flare Thromboembolic Diseasea Venousb Coronary and Cerebrale Gastrointestinal Disturbance	5 13	32 (6) 18 (4) 33 (6) 15 19 196 (38)	Hot Flushes Vaginal Dryness Lethargy Vaginal Bleeding Weight Gain	134 (26) 9 (2) 6 (1) 5 (1) 11 (2)	118 (23) 3 (1) 15 (3) 11 (2) 8 (2)

A patient may have had more than 1 adverse event
Includes pulmonary embolus, thrombophlebitis, retinal vein thrombosis
Includes myocardial infarction, myocardial ischemia, angina pectoris, cerebrovascular accident, cerebral ischemia and cerebral infarct

spite the lack of estrogenic activity for ARIMIDEX, there was no increase in myocardial infarction or fracture when compared with

Remodern. Record Line Therapy: ARIMIDEX was generally well tolerated in two well-controlled clinical trials (i.e., Trials 0004 and 0005), with less than 3.3% of the ARIMIDEX-treated patients and 4.0% of the megestrol acetate-treated patients withdrawing due to an adverse event. The principal adverse event more common with ARIMIDEX than megestrol acetate was diarrhea. Adverse events reported in greater than 5% of the patients in any of the treatment groups in these two well-controlled clinical trials, regardless of causality, are presented below:

Table 11

Number (n) and Percentage of Patients with Adverse Event†
RIMIDEX Menestral Acetate | ARIMIDI ARIMINEY ARIMINE ARIMINEY ARIMINEY Manageral Acatata

	1 mg (n = 262)	10 mg (n = 246)	160 mg (n = 253)		1 mg (n = 262)	10 mg (n = 246)	160 mg (n = 253)
Adverse Event	n (%)	n (%)	n (%)	Adverse Event	n (%)	n (%)	n (%)
Asthenia Nausea Headache Hot Flashes Pain Back Pain Dyspnea Vomiting Cough Increased Diarrhea Constipation	42 (16) 41 (16) 34 (13) 32 (12) 28 (11) 28 (11) 24 (9) 24 (9) 22 (8) 22 (8) 18 (7)	33 (13) 48 (20) 44 (18) 29 (11) 38 (15) 26 (11) 27 (11) 26 (11) 18 (7) 18 (7)	47 (19) 28 (11) 24 (9) 21 (8) 29 (11) 19 (8) 53 (21) 16 (6) 19 (8) 7 (3) 21 (8)	Pharyngitis Dizziness Rash Dry Mouth Peripheral Edema Pelvic Pain Depression Chest Pain Paresthesia Vaginal Hemorrhage Weight Gain	16 (6) 16 (6) 15 (6) 15 (6) 14 (5) 14 (5) 14 (5) 13 (5) 12 (5) 6 (2) 4 (2)	23 (9) 12 (5) 15 (6) 11 (4) 21 (9) 17 (7) 6 (2) 18 (7) 15 (6) 4 (2) 9 (4)	15 (6) 15 (6) 19 (8) 13 (5) 28 (11) 13 (5) 5 (2) 13 (5) 9 (4) 13 (5) 30 (12)
Abdominal Pain Anorexia Bone Pain	18 (7) 18 (7) 17 (6)	14 (6) 19 (8) 26 (12)	18 (7) 11 (4) 19 (8)	Sweating Increased Appetite	4 (2) 0 (0)	3 (1) 1 (0)	16 (6) 13 (5)

† A patient may have more than one adverse event.

† A patient may have more than one adverse event.

Other less frequent (2% to 5%) adverse experiences reported in patients receiving ARIMIDEX 1 mg in either Trial 0004 or Trial 0005 are listed below. These adverse experiences are listed by body system and are in order of decreasing frequency within each body system regardless of assessed causality.

Body as a Whole: File syndrome; fever; neck pain; malaise; accidental injury; infection Cardiovascular: Hypertension; thrombophleblits Hepatic: Gamma (7 increased; SGPT increased; Hematologic: Anemia; leukopenia Metabolic and Nutritional: Alkalian phosphatase increased; weight loss Mean serum total cholesterol levels increased by 0.5 mmol/L among patients receiving ARIMIDEX. Increases in LDL cholesterol have been shown to contribute to these changes.

Musculoskeletal: Myalgia; arthralgia; pathological fracture
Nervous: Somnolence; confusion, insommia; anxiety; nervousness
Respiratory: Sinustiis; bronchitis; rhimitis
Skin and Appendages: Halt thinning; pruritus
Urogenital: Urinary tract infection; breast pain
The incidences of the following adverse event groups potentially causally related to one or both of the therapies because of their pharmacology, were statistically analyzed: weight gain, edema, thromboembolic disease, gastrointestinal disturbance, hot flushes, and vaginal dryness. These six groups, and the adverse events captured in the groups, were prospectively defined. The results are shown in the table below.

Table 12

	Number (ARIMIDEX 1 mg (n = 262)		entage of Patients Megestrol Acetate 160 mg (n = 253)		Number ARIMIDEX 1 mg (n = 262)	(n) and Perce ARIMIDEX 10 mg (n = 246)	ntage of Patients Megestrol Acetate 160 mg (n = 253)
Adverse Event Group	n (%)	n (%)	n (%)	Adverse Event Group	n (%)	n (%)	n (%)
Gastrointestinal Disturbance		81 (33)	54 (21)	Thromboembolic Disease	9 (3)	4 (2)	12 (5)
Hot Flushes	33 (13)	29 (12)	35 (14)	Vaginal Dryness	5 (2)	3 (1)	2 (1)
Edema	19 (7)	28 (11)	35 (14)	Weight Gain	4(2)	10 (4)	30 (12)

More patients treated with megestrol acetate reported weight gain as an adverse event compared to patients treated with ARIMIDEX 1 mg (p-0.0001). Other differences were not statistically significant.

An examination of the magnitude of change in weight in all patients was also conducted. Thirty-four percent (87/253) of the patients treated with megestrol acetate experienced weight gain of 5% or more and 11% (27/253) of the patients treated with megestrol acetate experienced weight gain of 10% or more. Among patients treated with ARIMIDEX 1 mg, 13% (33/262) experienced weight gain of 5% or more and 3% (6/262) experienced weight gain of 10% or more. On average, this 5 to 10% weight gain represented between 6 and 12 pounds. No patients receiving ARIMIDEX or megestrol acetate discontinued treatment due to drug-related weight gain. Vaginal bleeding has been reported infrequently, mainly in patients during the first few weeks after changing from existing hormonal therapy to treatment with ARIMIDEX if bleeding persists, further evaluation should be considered.

During clinical trials and postmarketing experience joint pain/stiffness has been reported in association with the use of ARIMIDEX.

ARIMIDEX may also be associated with rash including very rare cases of muccoutaneous disorders such as erythema multiforme and Stevens-Johnson syndrome.

OVERDOSAGE

Clinical trials have been conducted with ARIMIDEX, up to 60 mg in a single dose given to healthy male volunteers and up to 10 mg daily given to postmenopausal women with advanced breast cancer; these dosages were well tolerated. A single dose of ARIMIDEX that results in life-threatening symptoms has not been established. In rats, lethally was observed after single oral doses that were greater than 100 mg/kg (about 800 times the recommended human dose on a mg/m² basis) and was associated with severe irritation to the stomach (necrosis, gastritis, ulceration, and hemorrhage).

In an oral acute toxicity study in the dog the median lethal dose was greater than 45 mg/kg/day.

There is no specific antidote to overdosage and treatment must be symptomatic. In the management of an overdose, consider that multiple agents may have been taken. Vomitting may be induced if the patient is aller. Dialysis may be helpful because ARIMIDEX is not highly protein bound. General supportive care, including frequent monitoring of vital signs and close observation of the patient, is indicated.

DOSAGE AND ADMINISTRATION

The dose of ARIMIDEX is one 1 mg tablet taken once a day. For patients with advanced breast cancer, ARIMIDEX should be continued until

The dose of AHIMIDEA is one if the guarantee and a user to patients with accuracy to the properties of the patients with accuracy to the patients with accuracy to the patients with accuracy to the patients with the patient of early breast cancer in postmenopausal women, the optimal duration of therapy is unknown. The median duration of therapy at the time of data analysis was 31 months; the ongoing ATAC trial is planned for five years of treatment.

Patients with Hepatic Impairment: (See CLINICAL PHARMACOLOGY) Hepatic metabolism accounts for approximately 85% of anastrozole elimination. Although clearance of anastrozole was decreased in patients with cirrhosis due to alcohol abuse, plasma anastrozole concentrations stayed in the usual range seen in patients without liver disease. Therefore, no changes in dose are recommended for patients with mild-to-moderate hepatic impairment, although patients should be monitored for side effects. ARIMIDEX has not been studied in patients with severe hepatic impairment. Mo channes in dose are necessary for patients with renal impairment.

with severe hepatic impairment. Patients with Renal Impairment: No changes in dose are necessary for patients with renal impairment. Use in the Elderly: No dosage adjustment is necessary.

HOW SUPPLIED

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