

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:
201922Orig1s000

LABELING

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use XIMINO safely and effectively. See full prescribing information for XIMINO.

XIMINO (minocycline hydrochloride) extended-release capsules, for oral use

Initial U.S. Approval: 1971

INDICATIONS AND USAGE

Ximino is a tetracycline-class drug indicated to treat only inflammatory lesions of non-nodular moderate to severe acne vulgaris in patients 12 years of age and older. (1)

Limitations of Use

Ximino did not demonstrate any effect on non-inflammatory acne lesions. Safety of Ximino has not been established beyond 12 weeks of use. This formulation of minocycline has not been evaluated in the treatment of infections. (14)

DOSAGE AND ADMINISTRATION

The recommended dosage of Ximino is approximately 1 mg/kg once daily for 12 weeks. (2)

DOSAGE FORMS AND STRENGTHS

Extended-Release Capsules: 45 mg, 67.5 mg, 90 mg, 112.5 mg, and 135 mg (3)

CONTRAINDICATIONS

Ximino is contraindicated in persons who have shown hypersensitivity to any of the tetracyclines. (4)

WARNINGS AND PRECAUTIONS

- The use of Ximino during tooth development (last half of pregnancy, infancy, and childhood up to the age of 8 years) may cause permanent discoloration of the teeth (yellow-gray-brown). (5.1)
- If pseudomembranous colitis occurs, discontinue Ximino. (5.2)
- If liver injury is suspected, discontinue Ximino. (5.3)

- If renal impairment exists, Ximino doses may need to be adjusted to avoid excessive systemic accumulations of the drug and possible liver toxicity. (5.4)
- Minocycline may cause central nervous system side effects including light-headedness, dizziness, or vertigo. Advise patients. (5.5)
- Minocycline may cause pseudotumor cerebri (benign intracranial hypertension) in adults and adolescents. Discontinue Ximino if symptoms occur. (5.6)
- Minocycline has been associated with autoimmune syndromes; discontinue Ximino immediately if symptoms occur. (5.7)
- Minocycline has been associated with anaphylaxis, serious skin reactions, erythema multiforme, and DRESS syndrome. Discontinue Ximino immediately if symptoms occur. (5.9)

ADVERSE REACTIONS

The most commonly observed adverse reactions (incidence \geq 5%) are headache, fatigue, dizziness, and pruritus. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Ranbaxy Laboratories Inc. at 1-888-Ranbaxy (726-2299) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Patients who are on anticoagulant therapy may require downward adjustment of their anticoagulant dosage. (7.1)
- The concurrent use of tetracycline and methoxyflurane has been reported to result in fatal renal toxicity. (7.3)
- To avoid contraceptive failure, female patients are advised to use a second form of contraceptive during treatment with minocycline. (7.5)

USE IN SPECIFIC POPULATIONS

- Minocycline like other tetracycline-class drugs can cause fetal harm when administered to a pregnant woman (5.1, 8.1)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 7/2012

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Indication

Ximino is indicated to treat only inflammatory lesions of non-nodular moderate to severe acne vulgaris in patients 12 years of age and older.

To reduce the development of drug-resistant bacteria as well as to maintain the effectiveness of other antibacterial drugs, Ximino should be used only as indicated [*see Warnings and Precautions (5.11)*].

1.2 Limitations of Use

Ximino did not demonstrate any effect on non-inflammatory acne lesions. Safety of Ximino has not been established beyond 12 weeks of use. This formulation of minocycline has not been evaluated in the treatment of infections [*see Clinical Studies (14)*].

2 DOSAGE AND ADMINISTRATION

The recommended dosage of Ximino is approximately 1 mg/kg once daily for 12 weeks. Higher doses have not shown to be of additional benefit in the treatment of inflammatory lesions of acne, and may be associated with more acute vestibular side effects.

The following table shows capsule strength and body weight to achieve approximately 1 mg/kg.

Table 1: Dosing Table for Ximino

Patient's Weight (lbs.)	Patient's Weight (kg)	Capsule Strength (mg)	Actual mg/kg Dose
99 to 122	45 to 55	45	1 to 0.82
123 to 164	56 to 74	67.5	1.21 to 0.91
165 to 212	75 to 96	90	1.20 to 0.94
213 to 276	97 to 125	112.5	1.16 to 0.90
277 to 300	126 to 136	135	1.07 to 0.99

Ximino may be taken with or without food [*see Clinical Pharmacology (12)*]. The capsules should be swallowed whole without chewing, crushing or splitting. Ingestion of food along with Ximino may help reduce the risk of esophageal irritation and ulceration.

In patients with renal impairment, the total dosage should be decreased by either reducing the recommended individual doses and/or by extending the time intervals between doses [*see Warnings and Precautions (5.4)*].

3 DOSAGE FORMS AND STRENGTHS

- **45 mg Extended-Release Capsules:** Opaque bluish green cap and opaque yellow body hard gelatin capsule with ‘RI18’ imprinted on both cap and body in black ink containing one yellow to grayish yellow colored film-coated, round tablet plain on both sides.
- **67.5 mg Extended-Release Capsules:** Opaque bluish green cap and white body hard gelatin capsule imprinted with ‘RI92’ on both cap and body in black ink containing one yellow to grayish yellow colored film-coated, round tablet plain on both sides.
- **90 mg Extended-Release Capsules:** Opaque light blue cap and body hard gelatin capsule with ‘RI19’ imprinted on both cap and body in black ink containing two yellow to grayish yellow colored film-coated, round tablets plain on both sides.
- **112.5 mg Extended-Release Capsules:** Opaque light blue cap and white body hard gelatin capsule imprinted with ‘RI93’ on both cap and body in black ink containing two yellow to grayish yellow colored film-coated, round tablets debossed with ‘X’ on one side and plain on the other side.
- **135 mg Extended-Release Capsules:** Opaque bluish green cap and opaque light blue body hard gelatin capsule with ‘RI20’ imprinted on both cap and body in black ink containing three yellow to grayish yellow colored film-coated, round tablets plain on both sides.

4 CONTRAINDICATIONS

Ximino is contraindicated in persons who have shown hypersensitivity to any of the tetracyclines [see *Adverse Reactions (6.2)*].

5 WARNINGS AND PRECAUTIONS

5.1 Teratogenic Effects

- A. Minocycline, like other tetracycline-class drugs, can cause fetal harm when administered to a pregnant woman. If any tetracycline is used during pregnancy or if the patient becomes pregnant while taking these drugs, the patient should be apprised of the potential hazard to the fetus.

Ximino should not be used during pregnancy or by individuals of either gender who are attempting to conceive a child [see *Nonclinical Toxicology (13.1) and Use in Specific Populations (8.1)*].

- B. The use of drugs of the tetracycline class during tooth development (last half of pregnancy, infancy, and childhood up to the age of 8 years) may cause permanent discoloration of the teeth (yellow-gray-brown).

Permanent discoloration of the teeth is more common during long-term use of the drug but has been observed following repeated short-term courses. Enamel hypoplasia has also been reported. Tetracycline drugs, therefore, should not be used during tooth development.

- C. All tetracyclines form a stable calcium complex in any bone-forming tissue. A decrease in fibula growth rate has been observed in premature human infants given oral tetracycline in doses of 25 mg/kg every 6 hours. The decrease in fibula growth rate was shown to be reversible when the drug was discontinued.

Results of animal studies indicate that tetracyclines cross the placenta, are found in fetal tissues, and can cause retardation of skeletal development on the developing fetus. Evidence of embryotoxicity has been noted in animals treated early in pregnancy [see *Use in Specific Populations* (8.1)].

5.2 Pseudomembranous Colitis

Clostridium difficile associated diarrhea (CDAD) has been reported with nearly all antibacterial agents, including minocycline, and may range in severity from mild diarrhea to fatal colitis. Treatment with antibacterial agents alters the normal flora of the colon leading to overgrowth of *C. difficile*.

C. difficile produces toxins A and B which contribute to the development of CDAD. Hypertoxin producing strains of *C. difficile* cause increased morbidity and mortality, as these infections can be refractory to antimicrobial therapy and may require colectomy. CDAD must be considered in all patients who present with diarrhea following antibiotic use. Careful medical history is necessary since CDAD has been reported to occur over two months after the administration of antibacterial agents.

If CDAD is suspected or confirmed, ongoing antibiotic use not directed against *C. difficile* may need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibiotic treatment of *C. difficile*, and surgical evaluation should be instituted as clinically indicated.

5.3 Hepatotoxicity

Postmarketing cases of serious liver injury, including irreversible drug-induced hepatitis and fulminant hepatic failure (sometimes fatal) have been reported with minocycline use in the treatment of acne.

5.4 Metabolic Effects

The anti-anabolic action of the tetracyclines may cause an increase in BUN. While this is not a problem in those with normal renal function, in patients with significantly impaired function, higher serum levels of tetracycline-class drugs may lead to azotemia, hyperphosphatemia, and acidosis. If renal impairment exists, even usual oral or parenteral doses may lead to excessive systemic accumulations of the drug and possible liver toxicity. Under such conditions, lower than usual total doses are indicated, and if therapy is prolonged, serum level determinations of the drug may be advisable.

5.5 Central Nervous System Effects

Central nervous system side effects including light-headedness, dizziness or vertigo have been reported with minocycline therapy. Patients who experience these symptoms should be cautioned about driving vehicles or using hazardous machinery while on minocycline therapy. These symptoms may disappear during therapy and usually disappear when the drug is discontinued.

5.6 Benign Intracranial Hypertension

Pseudotumor cerebri (benign intracranial hypertension) in adults and adolescents has been associated with the use of tetracyclines. Minocycline has been reported to cause or precipitate pseudotumor cerebri, the hallmark of which is papilledema. Clinical manifestations include headache and blurred vision. Bulging fontanels have been associated with the use of tetracyclines in infants. Although signs and symptoms of pseudotumor cerebri resolve after discontinuation of treatment, the possibility for permanent sequelae such as visual loss that may be severe exists.

Patients should be questioned for visual disturbances prior to initiation of treatment with tetracyclines. If visual disturbance occurs during treatment, patients should be checked for papilledema. Concomitant use of isotretinoin and minocycline should be avoided because isotretinoin, a systemic retinoid, is also known to cause pseudotumor cerebri.

5.7 Autoimmune Syndromes

Tetracyclines have been associated with the development of autoimmune syndromes. The long-term use of minocycline in the treatment of acne has been associated with drug-induced lupus-like syndrome, autoimmune hepatitis and vasculitis. Sporadic cases of serum sickness have presented shortly after minocycline use. Symptoms may be manifested by fever, rash, arthralgia, and malaise. In symptomatic patients, liver function tests, ANA, CBC, and other appropriate tests should be performed to evaluate the patients. Use of all tetracycline-class drugs should be discontinued immediately.

5.8 Photosensitivity

Photosensitivity manifested by an exaggerated sunburn reaction has been observed in some individuals taking tetracyclines, including minocycline. Patients should minimize or avoid exposure to natural or artificial sunlight (tanning beds or UVA/B treatment) while using minocycline. If patients need to be outdoors while using minocycline, they should wear loose-fitting clothes that protect skin from sun exposure and discuss other sun protection measures with their physician.

5.9 Serious Skin/Hypersensitivity Reaction

Cases of anaphylaxis, serious skin reactions (e.g. Stevens Johnson syndrome), erythema multiforme, and drug rash with eosinophilia and systemic symptoms (DRESS) syndrome have been reported postmarketing with minocycline use in patients with acne. DRESS syndrome consists of cutaneous reaction (such as rash or exfoliative dermatitis), eosinophilia, and one or more of the following visceral complications such as: hepatitis, pneumonitis, nephritis, myocarditis, and pericarditis. Fever and lymphadenopathy may be present. In some cases, death has been reported. If this syndrome is recognized, the drug should be discontinued immediately.

5.10 Tissue Hyperpigmentation

Tetracycline class antibiotics are known to cause hyperpigmentation. Tetracycline therapy may induce hyperpigmentation in many organs, including nails, bone, skin, eyes, thyroid, visceral tissue, oral cavity (teeth, mucosa, alveolar bone), sclerae and heart valves. Skin and oral pigmentation has been reported to occur independently of time or amount of drug administration, whereas other tissue pigmentation has been reported to occur upon prolonged administration. Skin pigmentation includes diffuse pigmentation as well as over sites of scars or injury.

5.11 Development of Drug Resistant Bacteria

Bacterial resistance to the tetracyclines may develop in patients using Ximino, therefore, the susceptibility of bacteria associated with infection should be considered in selecting antimicrobial therapy. Because of the potential for drug-resistant bacteria to develop during the use of Ximino, it should be used only as indicated.

5.12 Superinfection

As with other antibiotic preparations, use of Ximino may result in overgrowth of nonsusceptible organisms, including fungi. If superinfection occurs, Ximino should be discontinued and appropriate therapy instituted.

5.13 Laboratory Monitoring

Periodic laboratory evaluations of organ systems, including hematopoietic, renal and hepatic studies should be performed. Appropriate tests for autoimmune syndromes should be performed as indicated.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction 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 clinical practice.

The following table summarizes selected adverse reactions reported in clinical trials at a rate of \geq 1% for minocycline hydrochloride.

Table 2: Selected Treatment-Emergent Adverse Reactions in at least 1% of Clinical Trial Subjects

Adverse Reactions	Minocycline hydrochloride (1 mg/kg) N = 674 (%)	PLACEBO N = 364 (%)
At least one treatment-emergent event	379 (56)	197 (54)
Headache	152 (23)	83 (23)
Fatigue	62 (9)	24 (7)
Dizziness	59 (9)	17 (5)
Pruritus	31 (5)	16 (4)
Malaise	26 (4)	9 (3)
Mood alteration	17 (3)	9 (3)
Somnolence	13 (2)	3 (1)
Urticaria	10 (2)	1 (0)
Tinnitus	10 (2)	5 (1)
Arthralgia	9 (1)	2 (0)
Vertigo	8 (1)	3 (1)
Dry mouth	7 (1)	5 (1)
Myalgia	7 (1)	4 (1)

6.2 Postmarketing Experience

The following adverse reactions have been identified during post approval use of minocycline hydrochloride. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Adverse reactions that have been reported with minocycline hydrochloride use in a variety of indications include:

Skin and hypersensitivity reactions: fixed drug eruptions, balanitis, erythema multiforme, Stevens-Johnson syndrome, anaphylactoid purpura, photosensitivity, pigmentation of skin and mucous membranes, hypersensitivity reactions, angioneurotic edema, anaphylaxis, DRESS syndrome [see Warnings and Precautions (5.9)].

Autoimmune conditions: polyarthralgia, pericarditis, exacerbation of systemic lupus, pulmonary infiltrates with eosinophilia, transient lupus-like syndrome.

Central nervous system: pseudotumor cerebri, bulging fontanel in infants, decreased hearing.

Endocrine: brown-black microscopic thyroid discoloration, abnormal thyroid function.

Oncology: thyroid cancer.

Oral: glossitis, dysphagia, tooth discoloration.

Gastrointestinal: enterocolitis, pancreatitis, hepatitis, liver failure.

Renal: reversible acute renal failure.

Hematology: hemolytic anemia, thrombocytopenia, eosinophilia.

Preliminary studies suggest that use of minocycline may have deleterious effects on human spermatogenesis [see *Nonclinical Toxicology (13.1)*].

7 DRUG INTERACTIONS

7.1 Anticoagulants

Because tetracyclines have been shown to depress plasma prothrombin activity, patients who are on anticoagulant therapy may require downward adjustment of their anticoagulant dosage.

7.2 Penicillin

Since bacteriostatic drugs may interfere with the bactericidal action of penicillin, it is advisable to avoid giving tetracycline-class drugs in conjunction with penicillin.

7.3 Methoxyflurane

The concurrent use of tetracycline and methoxyflurane has been reported to result in fatal renal toxicity.

7.4 Antacids and Iron Preparations

Absorption of tetracyclines is impaired by antacids containing aluminum, calcium or magnesium and iron-containing preparations.

7.5 Low Dose Oral Contraceptives

In a multi-center study to evaluate the effect of minocycline hydrochloride (administered as another extended-release formulation which is bioequivalent to Ximino) on low dose oral contraceptives, hormone levels over one menstrual cycle with and without minocycline hydrochloride 1 mg/kg once-daily were measured. Based on the results of this trial, minocycline-related changes in estradiol, progestinic hormone, FSH and LH plasma levels, of breakthrough bleeding, or of contraceptive failure, cannot be ruled out. To avoid contraceptive failure, female patients are advised to use a second form of contraceptive during treatment with minocycline.

7.6 Drug/Laboratory Test Interactions

False elevations of urinary catecholamine levels may occur due to interference with the fluorescence test.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Teratogenic Effects: Pregnancy category D [see Warnings and Precautions (5.1)]

Ximino should not be used during pregnancy. If the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus and stop treatment immediately.

There are no adequate and well-controlled studies on the use of minocycline in pregnant women. Minocycline, like other tetracycline-class drugs, crosses the placenta and can cause fetal harm when administered to a pregnant woman.

Spontaneous reports of congenital anomalies including limb reduction have been reported with minocycline use in pregnancy in postmarketing experience. Only limited information is available regarding these reports; therefore, no conclusion on causal association can be established.

Minocycline induced skeletal malformations (bent limb bones) in fetuses when administered to pregnant rats and rabbits in doses of 30 mg/kg/day and 100 mg/kg/day, respectively, (resulting in approximately 3 times and 2 times, respectively, the systemic exposure to minocycline observed in patients as a result of use of Ximino). Reduced mean fetal body weight was observed in studies in which minocycline was administered to pregnant rats at a dose of 10 mg/kg/day (which resulted in approximately the same level of systemic exposure to minocycline as that observed in patients who use Ximino).

Minocycline was assessed for effects on peri- and post-natal development of rats in a study that involved oral administration to pregnant rats from day 6 of gestation through the period of lactation (postpartum day 20), at dosages of 5, 10, or 50 mg/kg/day. In this study, body weight gain was significantly reduced in pregnant females that received 50 mg/kg/day (resulting in approximately 2.5 times the systemic exposure to minocycline observed in patients as a result of use of Ximino). No effects of treatment on the duration of the gestation period or the number of live pups born per litter were observed. Gross external anomalies observed in F1 pups (offspring of animals that received minocycline) included reduced body size, improperly rotated forelimbs, and reduced size of extremities. No effects were observed on the physical development, behavior, learning ability, or reproduction of F1 pups, and there was no effect on gross appearance of F2 pups (offspring of F1 animals).

8.3 Nursing Mothers

Tetracycline-class antibiotics are excreted in human milk. Because of the potential for serious adverse effects on bone and tooth development in nursing infants from the tetracycline-class antibiotics, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother [*see Warnings and Precautions (5.1)*].

8.4 Pediatric Use

Ximino is indicated to treat only inflammatory lesions of non-nodular moderate to severe acne vulgaris in patients 12 years and older. Safety and effectiveness in pediatric patients below the age of 12 have not been established.

Use of tetracycline-class antibiotics below the age of 8 is not recommended due to the potential for tooth discoloration [see *Warnings and Precautions (5.1)*].

8.5 Geriatric Use

Clinical studies of minocycline hydrochloride did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and concomitant disease or other drug therapy.

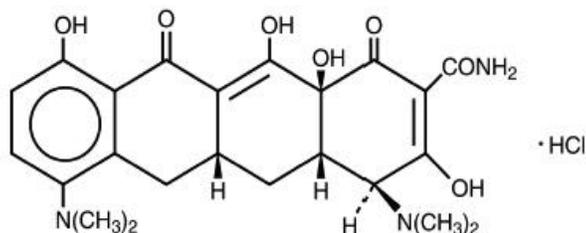
10 OVERDOSAGE

In case of overdosage, discontinue medication, treat symptomatically and institute supportive measures. Minocycline is not removed in significant quantities by hemodialysis or peritoneal dialysis.

11 DESCRIPTION

The active ingredient in Ximino Extended-Release Capsules is minocycline hydrochloride, a semi synthetic derivative of tetracycline. Ximino is a tetracycline-class drug. Ximino is known chemically as [4*S*-(4 α ,4a α ,5a α ,12a α)]-4,7-Bis(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,10,12,12a-tetrahydroxy-1,11-dioxo-2-naphthacenecarboxamide mono hydrochloride.

The structural formula is represented below:



M.W. 493.95

Minocycline hydrochloride, USP is a yellow crystalline powder, sparingly soluble in water, soluble in solutions of alkali hydroxides and carbonates, slightly soluble in alcohol, practically insoluble in chloroform and in ether.

Ximino (minocycline hydrochloride) Extended-Release Capsules for oral administration contain minocycline hydrochloride, USP equivalent to 45 mg, 67.5 mg, 90 mg, 112.5 mg, or 135 mg of minocycline. The Extended-Release Capsules contain the following inactive ingredients: colloidal silicon dioxide, D&C Yellow #10 (in 45 mg strength), FD&C Blue #1, FD&C Yellow #6 (in 45 mg, 67.5 mg, and 135 mg strength), gelatin, hypromellose, lactose monohydrate, magnesium stearate, sodium lauryl sulfate, and titanium dioxide.

The 45 mg, 67.5 mg, 90 mg, 112.5 mg, and 135 mg capsules also contain Opadry Clear which contains hypromellose, polyethylene glycol 400, polyethylene glycol 6000, and talc.

Ximino Extended-Release Capsules also contain black ink which contains black iron oxide, potassium hydroxide, propylene glycol, and shellac.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The mechanism of action of Ximino for the treatment of acne is unknown.

12.2 Pharmacodynamics

The pharmacodynamics of Ximino for the treatment of acne are unknown.

12.3 Pharmacokinetics

Ximino is not bioequivalent to immediate release minocycline products.

Following administration of a single dose of Ximino (135 mg) to healthy male and female adult subjects, the mean (SD) $AUC_{(0-\infty)}$ and C_{max} were 12.87 (4.04) mcg x hr/mL and 0.68 (0.25) mcg/mL, respectively, under fasting conditions.

When a single dose of Ximino (135 mg) was administered with a high fat meal to the same subjects in the same study in a crossover design, the mean (SD) $AUC_{(0-\infty)}$ and C_{max} were 14.16 (3.10) mcg x hr/mL and 0.85 (0.20) mcg/mL, respectively.

A single-dose, crossover study demonstrated that Ximino (45 mg and 135 mg) exhibited dose-proportional pharmacokinetics.

Minocycline is lipid soluble and distributes into the skin and sebum.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis-Long-term animal studies have not been performed to evaluate the carcinogenic potential of minocycline. A structurally related compound, oxytetracycline, was found to produce adrenal and pituitary tumors in rats.

Mutagenesis-Minocycline was not mutagenic *in vitro* in a bacterial reverse mutation assay (Ames test) or CHO/HGPRT mammalian cell assay in the presence or absence of metabolic activation. Minocycline was not clastogenic *in vitro* using human peripheral blood lymphocytes or *in vivo* in a mouse micronucleus test.

Impairment of Fertility-Male and female reproductive performance in rats was unaffected by oral doses of minocycline of up to 300 mg/kg/day (which resulted in up to approximately 40 times the level of systemic exposure to minocycline observed in patients as a result of use of Ximino). However, oral administration of 100 or 300 mg/kg/day of minocycline to male rats (resulting in approximately 15 to 40 times the level of systemic exposure to minocycline observed in patients as a result of use of Ximino) adversely affected spermatogenesis. Effects observed at 300 mg/kg/day included a reduced number of sperm cells per gram of epididymis, an apparent reduction in the percentage of sperm that were motile, and (at 100 and 300 mg/kg/day) increased numbers of morphologically abnormal sperm cells. Morphological abnormalities observed in sperm samples included absent heads, misshapen heads, and abnormal flagella.

Limited human studies suggest that minocycline may have a deleterious effect on spermatogenesis.

Ximino should not be used by individuals of either gender who are attempting to conceive a child.

14 CLINICAL STUDIES

The safety and efficacy of minocycline hydrochloride in the treatment of inflammatory lesions of non-nodular moderate to severe acne vulgaris was assessed in two 12-week, multi-center, randomized, double-blind, placebo-controlled, studies in subjects ≥ 12 years. The mean age of subjects was 20 years and subjects were from the following racial groups: White (73%), Hispanic (13%), Black (11%), Asian/Pacific Islander (2%), and Other (2%).

In two efficacy and safety trials, a total of 924 subjects with non-nodular moderate to severe acne vulgaris received minocycline hydrochloride or placebo for a total of 12 weeks, according to the following dose assignments.

Table 3: Clinical Studies Dosing Table

Subject's Weight (lbs)	Subject's Weight (kg)	Available Capsule Strength (mg)	Actual mg/kg Dose
99 to 131	45 to 59	45	1 to 0.76
132 to 199	60 to 90	90	1.5 to 1
200 to 300	91 to 136	135	1.48 to 0.99

The two primary efficacy endpoints were:

- 1) Mean percent change in inflammatory lesion counts from Baseline to 12 weeks.
- 2) Percentage of subjects with an Evaluator's Global Severity Assessment (EGSA) of clear or almost clear at 12 weeks.

Efficacy results are presented in Table 4.

Table 4: Efficacy Results at Week 12

	Study 1		Study 2	
	Minocycline hydrochloride (1 mg/kg) N = 300	Placebo N = 151	Minocycline hydrochloride (1 mg/kg) N = 315	Placebo N = 158
Mean Percent Improvement in Inflammatory Lesions	43.1%	31.7%	45.8%	30.8%
No. (%) of Subjects Clear or Almost Clear on the EGSA*	52 (17.3%)	12 (7.9%)	50 (15.9%)	15 (9.5%)

*Evaluator's Global Severity Assessment

Minocycline hydrochloride did not demonstrate any effect on non-inflammatory lesions (benefit or worsening).

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Ximino (minocycline hydrochloride) Extended-Release Capsules are hard-gelatin capsules containing minocycline hydrochloride, USP equivalent to 45 mg, 67.5 mg, 90 mg, 112.5 mg or 135 mg minocycline. The Extended-Release Capsules are supplied as follows:

Ximino (minocycline hydrochloride) Extended-Release Capsules 45 mg: Opaque bluish green cap and opaque yellow body hard gelatin capsule with ‘RI18’ imprinted on both cap and body in black ink containing one yellow to grayish yellow colored film-coated, round tablet plain on both sides and are supplied as follows:

NDC 10631-330-30 Bottle of 30
NDC 10631-330-05 Bottle of 500
NDC 10631-330-69 Blister pack of 10

Ximino (minocycline hydrochloride) Extended-Release Capsules 67.5 mg: Opaque bluish green cap and white body hard gelatin capsule imprinted with ‘RI92’ on both cap and body in black ink containing one yellow to grayish yellow colored film-coated, round tablet plain on both sides and are supplied as follows:

NDC 10631-230-30 Bottle of 30
NDC 10631-230-05 Bottle of 500
NDC 10631-230-69 Blister pack of 10

Ximino (minocycline hydrochloride) Extended-Release Capsules 90 mg: Opaque light blue cap and body hard gelatin capsule with ‘RI19’ imprinted on both cap and body in black ink containing two yellow to grayish yellow colored film-coated, round tablets plain on both sides and are supplied as follows:

NDC 10631-331-30 Bottle of 30
NDC 10631-331-05 Bottle of 500
NDC 10631-331-69 Blister pack of 10

Ximino (minocycline hydrochloride) Extended-Release Capsules 112.5 mg: Opaque light blue cap and white body hard gelatin capsule imprinted with ‘RI93’ on both cap and body in black ink containing two yellow to grayish yellow colored film-coated, round tablets debossed with ‘X’ on one side and plain on the other side and are supplied as follows:

NDC 10631-231-30 Bottle of 30
NDC 10631-231-05 Bottle of 500
NDC 10631-231-69 Blister pack of 10

Ximino (minocycline hydrochloride) Extended-Release Capsules 135 mg: Opaque bluish green cap and opaque light blue body hard gelatin capsule with ‘RI20’ imprinted on both cap and body in black ink containing three yellow to grayish yellow colored film-coated, round tablets plain on both sides and are supplied as follows:

NDC 10631-332-30 Bottle of 30
NDC 10631-332-05 Bottle of 500
NDC 10631-332-69 Blister pack of 10

16.2 Storage

Store at 20° C - 25°C (68° F - 77°F); excursions are permitted to 15° C - 30°C (59° F - 86°F) [See USP Controlled Room Temperature].

16.3 Handling

Protect from light, moisture, and excessive heat.

Dispense in tight, light-resistant container with child-resistant closure.

17 PATIENT COUNSELING INFORMATION

“See FDA-Approved Patient Labeling (Patient Information)”

Patients taking Ximino should receive the following information and instructions:

- Ximino should not be used by pregnant women or women attempting to conceive a child [*see Use in Specific Populations (8.1), Nonclinical Toxicology (13.1)*].
- It is recommended that Ximino not be used by men who are attempting to father a child [*see Nonclinical Toxicology (13.1)*].
- Patients should be advised that pseudomembranous colitis can occur with minocycline therapy. If patients develop watery or bloody stools, they should seek medical attention
- Patients should be counseled about the possibility of hepatotoxicity. Patients should seek medical advice if they experience symptoms which can include loss of appetite, tiredness, diarrhea, skin turning yellow, bleeding easily, confusion, and sleepiness.
- Patients who experience central nervous system symptoms [*see Warnings and Precautions (5.5)*] should be cautioned about driving vehicles or using hazardous machinery while on minocycline therapy. Patients should seek medical help for persistent headaches or blurred vision.
- Concurrent use of tetracycline may render oral contraceptives less effective. To avoid contraceptive failure, female patients on low dose oral contraceptives should be advised to use a second form of contraception during treatment with minocycline [*see Drug Interactions (7.5)*].
- Autoimmune syndromes, including drug-induced lupus-like syndrome, autoimmune hepatitis, vasculitis and serum sickness have been observed with tetracycline-class drugs, including minocycline. Symptoms may be manifested by arthralgia, fever, rash and malaise. Patients who experience such symptoms should be cautioned to stop the drug immediately and seek medical help.
- Patients should be counseled about discoloration of skin, scars, teeth or gums that can arise from minocycline therapy.
- Photosensitivity manifested by an exaggerated sunburn reaction has been observed in some individuals taking tetracyclines, including minocycline. Patients should minimize or avoid exposure to natural or artificial sunlight (tanning beds or UVA/B treatment) while using minocycline. If patients need to be outdoors while using minocycline, they should wear loose-fitting clothes that protect skin from sun exposure and discuss other sun protection measures with their physician. Treatment should be discontinued at the first evidence of skin erythema.
- Ximino should be taken exactly as directed. Skipping doses or not completing the full course of therapy may decrease the effectiveness of the current treatment course and increase the likelihood that bacteria will develop resistance and will not be treatable by other antibacterial drugs in the future.
- Patients should be advised to swallow Ximino whole and not to chew, crush, or split the capsules.

FDA-Approved Patient Labeling

PATIENT INFORMATION XIMINO (Zi-min-ō) (minocycline hydrochloride) Extended-Release Capsules

Read this Patient Information leaflet that comes with Ximino before you start taking it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your doctor about your condition or treatment.

What is Ximino?

Ximino is a tetracycline-class drug. Ximino is prescription medicine used to treat pimples and red bumps (non-nodular inflammatory lesions) that happen with moderate to severe acne vulgaris in people 12 years and older. Ximino is not effective for acne that is not red-looking (this means acne that is not inflammatory).

It is not known if Ximino is:

- safe for use longer than 12 weeks.
- safe and effective for the treatment of infections.
- safe and effective in children under the age of 12 years.

Who should not take Ximino?

Do not take Ximino if you are allergic to tetracycline class medicines. Ask your doctor or pharmacist for a list of these medicines if you are not sure.

What should I tell my doctor before taking Ximino?

Before you take Ximino, tell your doctor if you:

- have kidney problems. Your doctor may prescribe a lower dose of medicine for you
- have liver problems
- have diarrhea or watery stools
- have vision problems
- plan to have surgery with general anesthesia
- have any other medical conditions
- are a male, and you and your female partner are trying to conceive a baby. You should not take Ximino.
- are pregnant or plan to become pregnant. Ximino may harm your unborn baby. Taking Ximino while you are pregnant may cause serious side effects on the growth of bone and teeth of your baby. Talk to your doctor before taking Ximino if you plan to become pregnant, **or** if you are already taking Ximino and plan to become pregnant. Stop taking Ximino and call your doctor right away if you become pregnant while taking Ximino.

- are breastfeeding or plan to breastfeed. Ximino passes into your milk and may harm your baby. You and your doctor should decide if you will take Ximino or breastfeed. You should not do both.

Tell your doctor about all the other medicines you take including prescription and nonprescription medicines, vitamins and herbal supplements. Ximino may affect the way other medicines work, and other medicines may affect how Ximino works.

Especially tell your doctor if you take:

- **birth control pills.** Ximino may make your birth control pills less effective. You could become pregnant. You should use a second form of birth control while taking Ximino.
- **a blood thinner medicine.**
- **a penicillin antibiotic medicine.** Ximino and penicillins should not be used together.
- **antacids that contain aluminum, calcium, or magnesium or iron-containing products.**
- an acne medication that contains **isotretinoin**. Ximino and isotretinoin should not be used together.

Ask your doctor or pharmacist if you are not sure if your medicine is one that is listed above.

Know the medicines you take. Keep a list of them to show your doctor and pharmacist when you get a new medicine.

How should I take Ximino?

- Take Ximino exactly as your doctor tells you.
- Skipping doses or not taking all doses of Ximino may:
 - make the treatment not work as well.
 - increase the chance that the bacteria will become resistant to Ximino .
- **Ximino can be taken with or without food.** Taking Ximino with food may lower your chances of getting irritation or ulcers in your esophagus. Your esophagus is the tube that connects your mouth to your stomach.
- **Swallow Ximino whole. Do not chew, crush, or split the capsules.**

If you take too much Ximino, call your doctor or poison control center right away. Your doctor may do blood tests to check you for side effects during treatment with Ximino.

What should I avoid while taking Ximino?

- Avoid sunlight, sunlamps, and tanning beds. Ximino can make your skin sensitive to the sun and the light from sunlamps and tanning beds. You could get severe sunburn.
- Wear loose-fitting clothes that protect your skin from sun exposure. Talk to your doctor about other ways to protect your skin while out in sunlight.
- You should not drive or operate dangerous machinery until you know how Ximino affects you. Ximino may cause you to feel dizzy or lightheaded, or have a spinning feeling (vertigo).

What are possible side effects of Ximino?

Ximino may cause serious side effects, including:

- **Harm to an unborn baby.** See “What should I tell my doctor before taking Ximino?”
- **Permanent teeth discoloration.** Ximino may permanently turn a baby or child's teeth yellow-grey-brown during tooth development. Ximino should not be used during tooth development. Tooth development happens in the last half of pregnancy, and from birth to 8 years of age. See “What should I tell my doctor before taking Ximino?”
- **Intestine infection (pseudomembranous colitis).** Pseudomembranous colitis can happen with most antibiotics, including Ximino. Call your doctor right away if you get watery diarrhea, diarrhea that does not go away, or bloody stools. You may have stomach cramps and a fever. Pseudomembranous colitis can happen 2 or more months after you have finished your medication.
- **Serious liver problems.** Stop taking Ximino and call your doctor right away if you get any of the following symptoms of liver problems:
 - loss of appetite
 - tiredness
 - diarrhea
 - yellowing of your skin or the whites of your eyes
 - unexplained bleeding
 - confusion
 - sleepiness
- **Central nervous system effects.** See “What should I avoid while taking Ximino?” Central nervous system effects such as light headedness, dizziness, and a spinning feeling (vertigo) may go away during your treatment with Ximino or if treatment is stopped. Call your doctor if you get headaches that do not go away or blurred vision.
- **Benign intracranial hypertension, also called pseudotumor cerebri.** This is a condition where there is high pressure in the fluid around the brain. This swelling may lead to vision changes and permanent vision loss. Stop taking Ximino and tell your doctor right away if you have blurred vision, vision loss, or unusual headaches.
- **Immune system reactions including a lupus-like syndrome, hepatitis, and inflammation of blood or lymph vessels (vasculitis).** Using Ximino for a long time to treat acne may cause immune system reactions. Tell your doctor right away if you get a fever, rash, joint pain, or body weakness. Your doctor may do tests to check your blood for immune system reactions.
- **Serious rash and allergic reactions.** Ximino may cause a serious rash and allergic reactions that may affect parts of your body such as your liver, lungs, kidneys and heart. Sometimes these can lead to death.
- Stop taking Ximino and get medical help right away if you have any of these symptoms:

- skin rash, hives, sores in your mouth, or your skin blisters and peels
- swelling of your face, eyes, lips, tongue, or throat
- trouble swallowing or breathing
- blood in your urine
- fever, yellowing of the skin or the whites of your eyes, dark colored urine
- pain on the right side of the stomach area (abdominal pain)
- chest pain or abnormal heartbeats
- swelling in your legs, ankles and feet
- darkening of your nails, skin, eyes, scars, teeth, and gums.

The most common side effects of Ximino include:

- headache
- tiredness
- dizziness or spinning feeling
- itching

Call your doctor if you have a side effect that bothers you or that does not go away. Your doctor may do tests to check you for side effects during treatment with Ximino.

These are not all the side effects with Ximino. Ask your doctor or pharmacist for more information.

Call your doctor for medical advice about side effects. You may report side effects to FDA at **1-800-FDA-1088**.

How should I store Ximino?

- Store Ximino at room temperature between 68° F to 77° F (20° C to 25° C).
- Keep Ximino in the container that it comes in and keep the container tightly closed.
- Keep Ximino dry.
- **Keep Ximino and all medicines out of the reach of children.**

General information about Ximino

Medicines are sometimes prescribed for purposes other than those listed in the Patient Information leaflet. Do not use Ximino for a condition for which it was not prescribed. Do not give Ximino to other people, even if they have the same symptoms you have. It may harm them.

This Patient Information leaflet summarizes the most important information about Ximino. If you would like more information, talk to your doctor. You can ask your doctor or pharmacist for information about Ximino that is written for health professionals.

What are the ingredients in Ximino?

Active Ingredient: minocycline HCl, USP.

Inactive Ingredients: colloidal silicon dioxide, D&C Yellow #10 (in 45 mg strength), FD&C Blue #1, FD&C Yellow #6 (in 45 mg, 67.5 mg, and 135 mg strength), gelatin, hypromellose, lactose monohydrate, magnesium stearate, sodium lauryl sulfate, and titanium dioxide.

The 45 mg, 67.5 mg, 90 mg, 112.5 mg, and 135 mg capsules also contain Opadry Clear which contains hypromellose, polyethylene glycol 400, polyethylene glycol 6000, and talc.

Ximino also contains black ink which contains black iron oxide, potassium hydroxide, propylene glycol, and shellac.

This Patient Information has been approved by the U.S. Food and Drug Administration.

Manufactured for:

Ranbaxy Laboratories Inc.

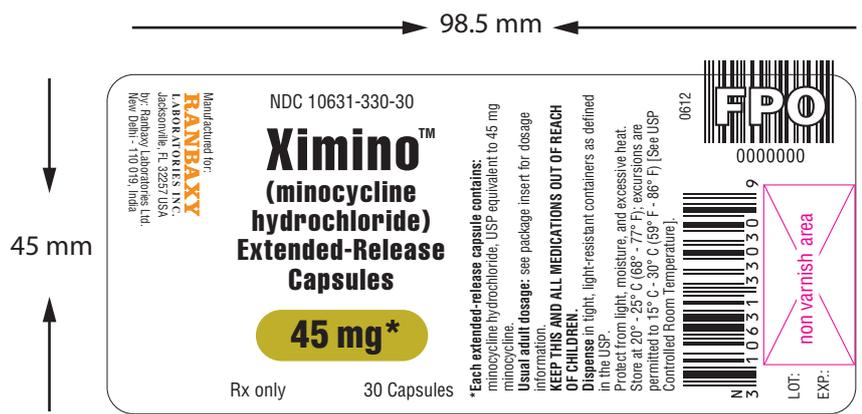
Jacksonville, FL 32257 USA

by: Ranbaxy Laboratories Ltd.

New Delhi - 110 019, India

Issued July 2012

FDA-05



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60 mm

130 mm

Manufactured for:
RANBAXY
LABORATORIES, INC.
Jacksonville, FL 32257 USA
By: Ranbaxy Laboratories Ltd.
New Delhi - 110 019, India

NDC 10631-330-05

Ximino™
(minocycline hydrochloride)
Extended-Release Capsules

45 mg*

Rx only

500 Capsules

*Each extended-release capsule contains:
minocycline hydrochloride, USP equivalent to 45 mg
minocycline.

Usual adult dosage: see package insert for dosage
information.

**KEEP THIS AND ALL MEDICATIONS OUT OF REACH
OF CHILDREN.**

Dispense in tight, light-resistant containers as defined
in the USP.

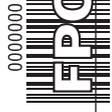
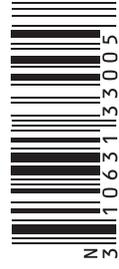
Protect from light, moisture, and excessive heat.

Store at 20° - 25° C (68° - 77° F); excursions are

permitted to 15° C - 30° C (59° F - 86° F) [See USP
Controlled Room Temperature].

This container is not intended for household use.

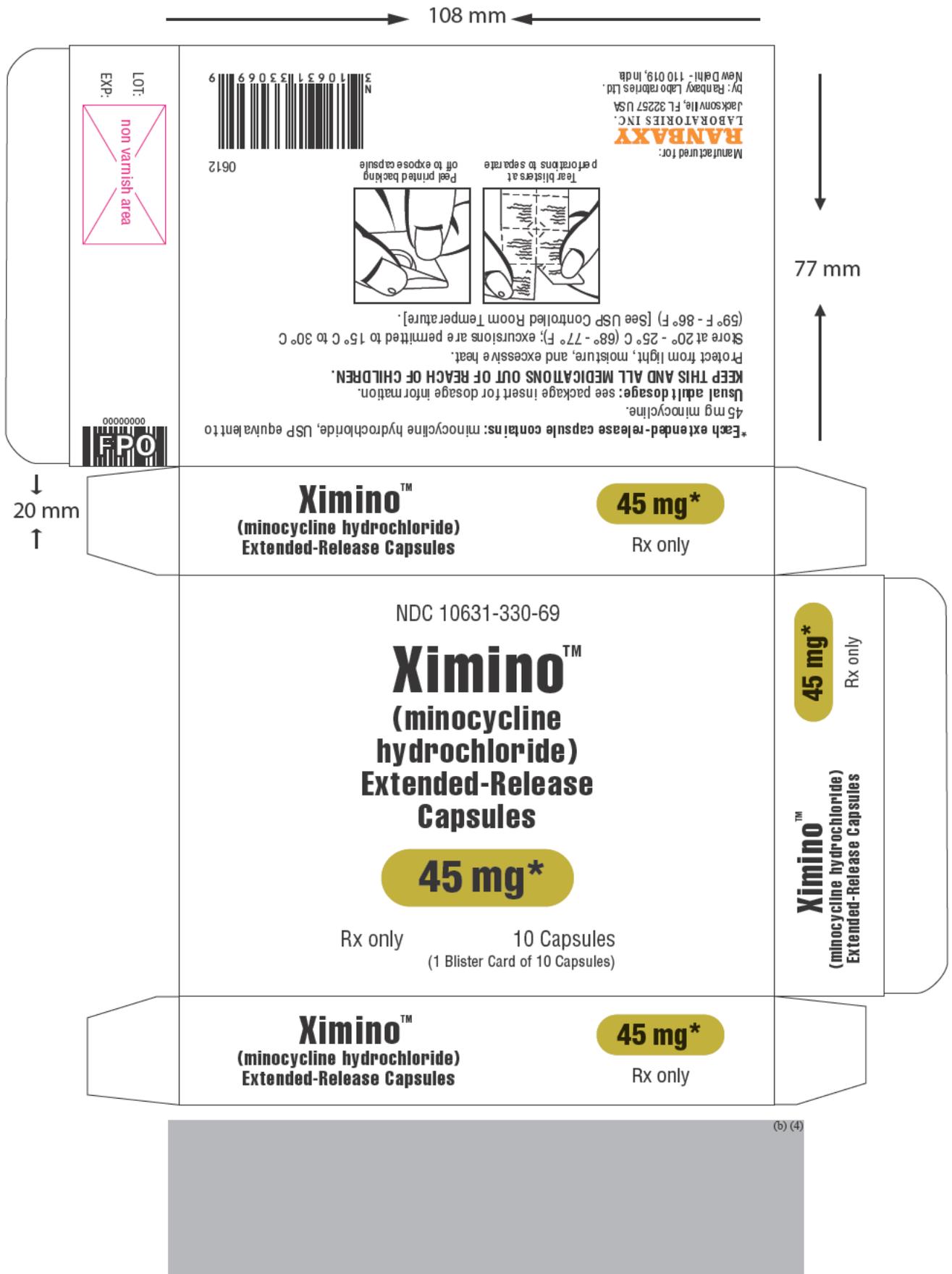
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Manufactured for:
RANBAXY
 Ranbaxy Laboratories Ltd.
 Jacksonvile, FL 32227, USA
 New Delhi - 110 019, India

NDC 10631-230-30

Ximino™

(minocycline hydrochloride)

Extended-Release Capsules

67.5 mg*

Rx only 30 Capsules

***Each extended-release capsule contains:**
 minocycline hydrochloride, USP equivalent to 67.5 mg minocycline.

Usual adult dosage: see package insert for dosage information.

KEEP THIS AND ALL MEDICATIONS OUT OF REACH OF CHILDREN.

Dispense in tight, light-resistant containers as defined in the USP.

Protect from light, moisture, and excessive heat. Store at 20° - 25° C (68° - 77° F); excursions are permitted to 15° C - 30° C (59° F - 86° F) [See USP Controlled Room Temperature].

0612



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Manufactured for
RANBAXY
LABORATORIES INC.
Jacksonville, FL 32257 USA
By: Ranbaxy Laboratories Ltd.
New Delhi - 110 019, India

NDC 10631-230-05

Ximino™

(minocycline hydrochloride)
Extended-Release Capsules

67.5 mg*

Rx only

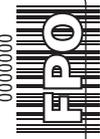
500 Capsules

*** Each extended-release capsule contains:**
minocycline hydrochloride, USP equivalent to
67.5 mg minocycline.
Usual adult dosage: see package insert for dosage
information.
**KEEP THIS AND ALL MEDICATIONS OUT OF REACH
OF CHILDREN.**
Dispense in tight, light-resistant containers as defined
in the USP.
Protect from light, moisture, and excessive heat.
Store at 20° - 25° C (68° - 77° F); excursions are
permitted to 15° C - 30° C (59° F - 86° F) [See USP
Controlled Room Temperature].
This container is not intended for household use.

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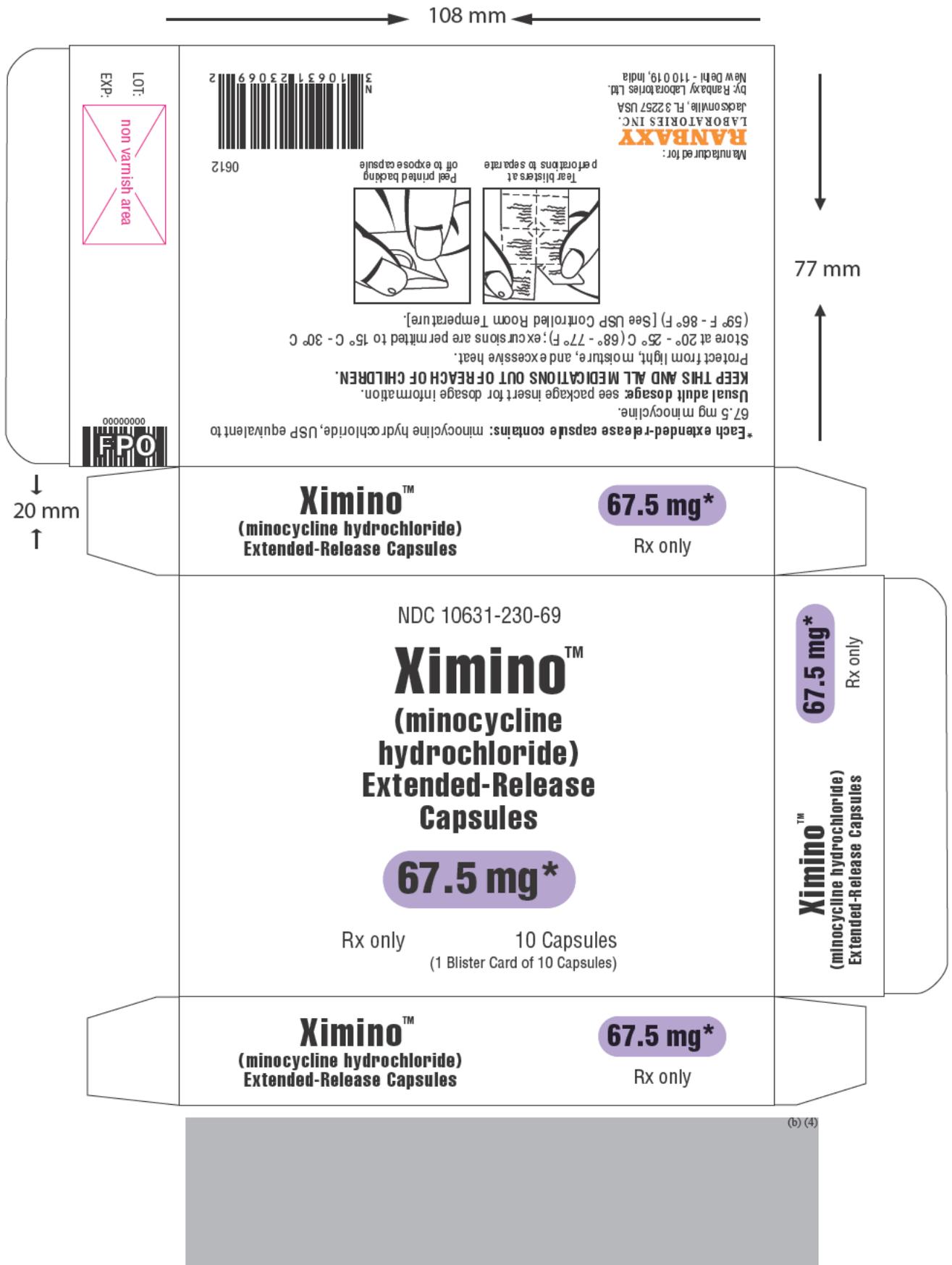
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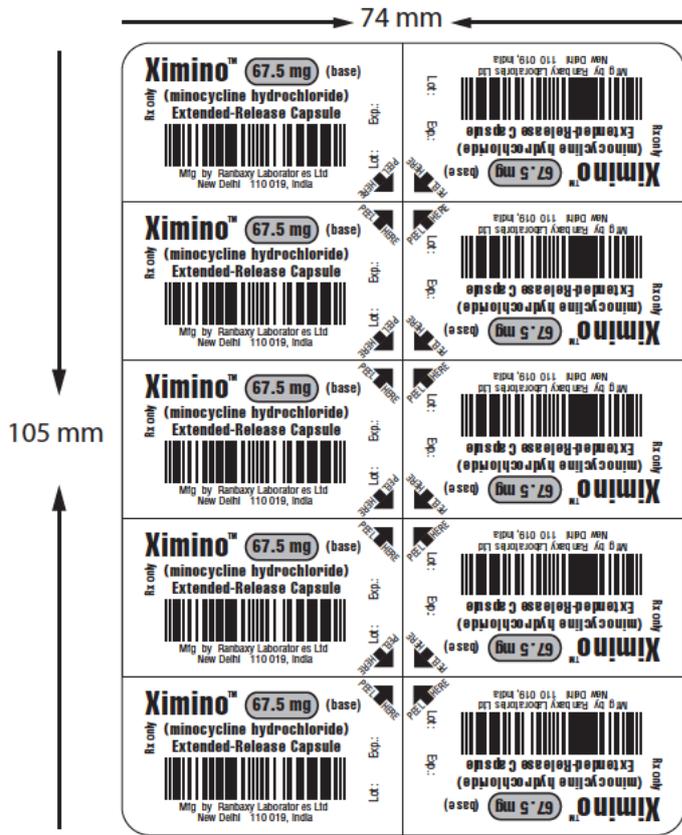
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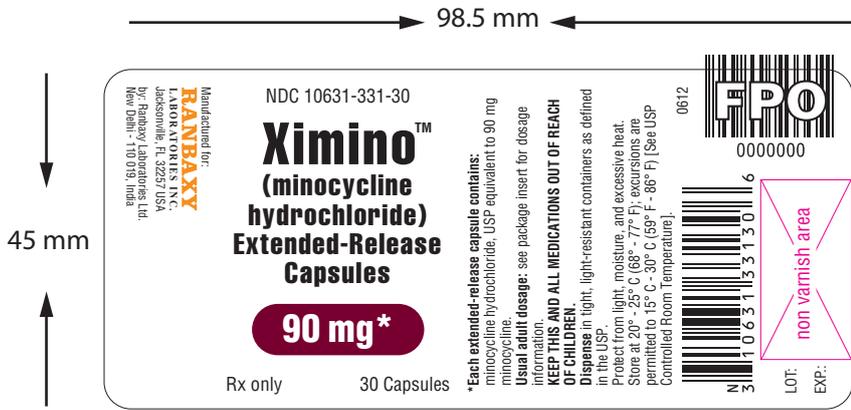


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60 mm

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Manufactured for:
RANBAXY
LABORATORIES INC.
Jacksonville, FL 32257 USA
by: Ranbaxy Laboratories Ltd.
New Delhi - 110 019, India

NDC 10631-331-05

Ximino™
(minocycline hydrochloride)
Extended-Release Capsules

90 mg*

Rx only

500 Capsules

*Each extended-release capsule contains: minocycline hydrochloride, USP equivalent to 90 mg minocycline.

Usual adult dosage: see package insert for dosage information.

KEEP THIS AND ALL MEDICATIONS OUT OF REACH OF CHILDREN.

Dispense in tight, light-resistant containers as defined in the USP.

Protect from light, moisture, and excessive heat.

Store at 20° - 25° C (68° - 77° F); excursions are

permitted to 15° C - 30° C (59° F - 86° F) [See USP

Controlled Room Temperature].

This container is not intended for household use.

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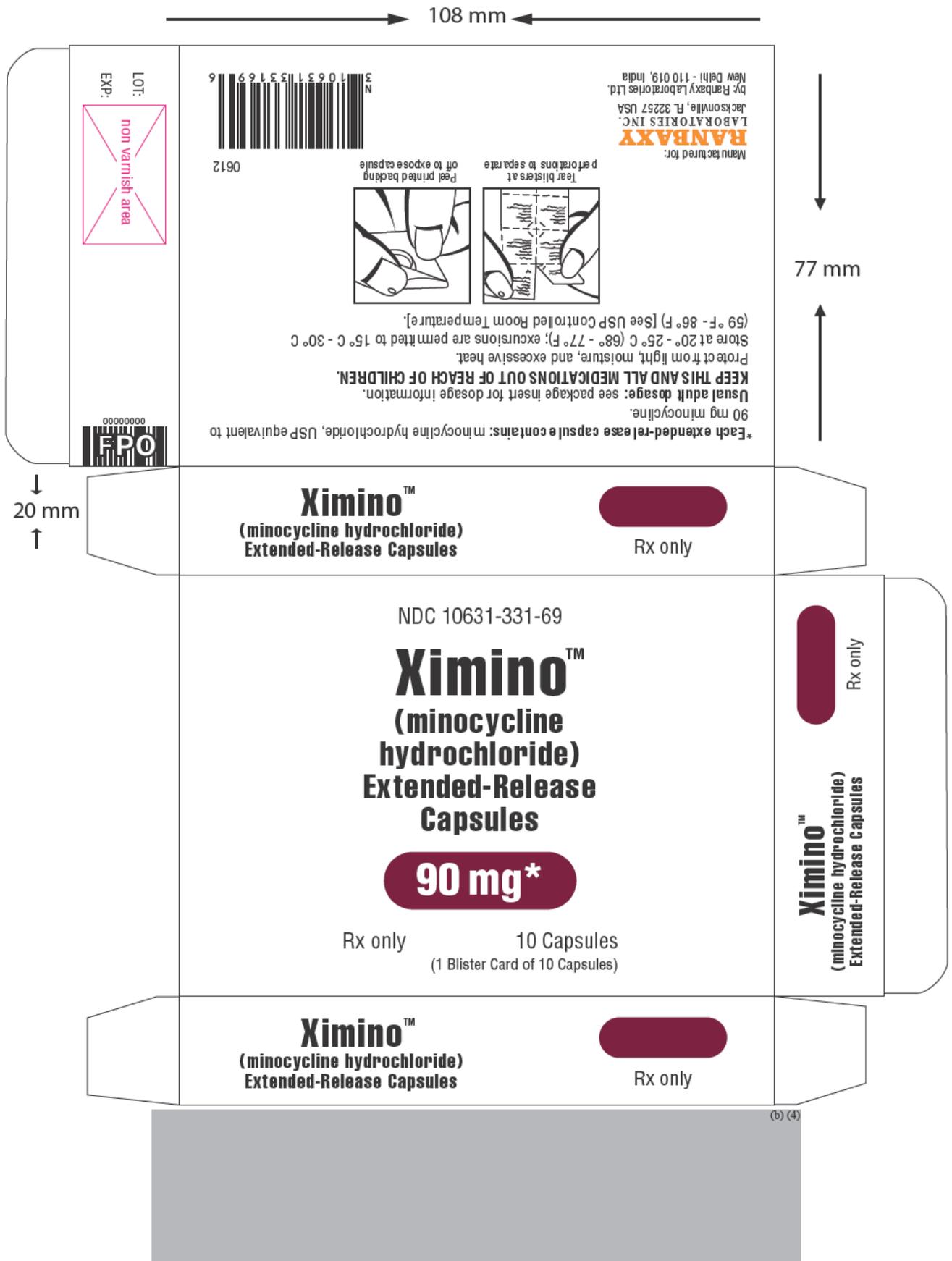
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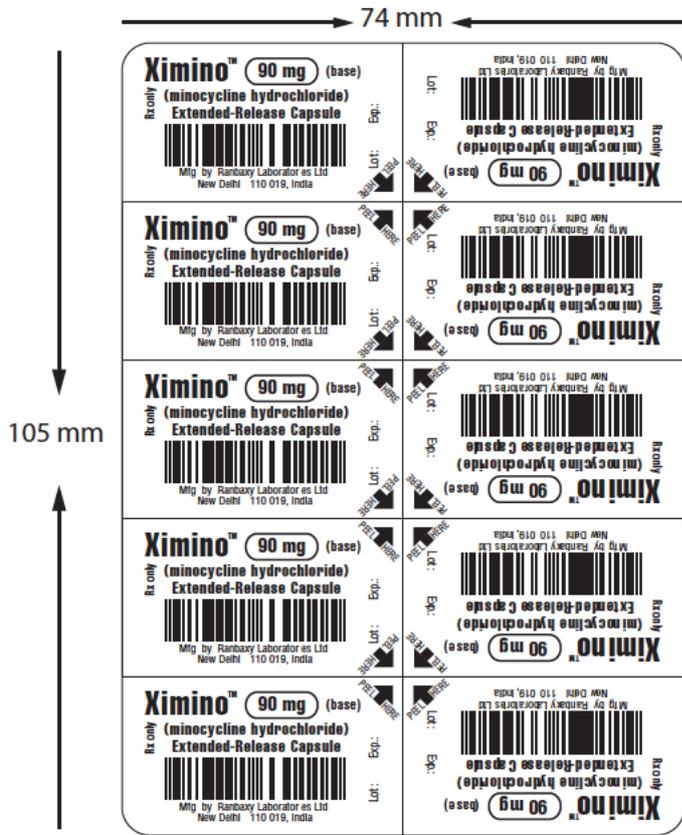
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45 mm

98.5 mm

Manufactured for
RANBAXY
 1, 2nd Floor, Plot No. 114,
 Madhav Nagar, 1st Stage,
 Jalahalli, Bangalore, Karnataka,
 India - 560022
 By: Ranbaxy Laboratories Ltd.
 New Delhi - 110019, India

NDC 10631-231-30

Ximino™
(minocycline hydrochloride)
Extended-Release Capsules

112.5 mg*

Rx only 30 Capsules

***Each extended-release capsule contains:**
 minocycline hydrochloride, USP equivalent to
 112.5 mg minocycline.
Usual adult dosage: see package insert for dosage
 information.

**KEEP THIS AND ALL MEDICATIONS OUT OF REACH
 OF CHILDREN.**

Dispense in light, light-resistant containers as defined
 in the USP.

Protect from light, moisture, and excessive heat.
 Store at 20° - 25° C (68° - 77° F); excursions are
 permitted to 15° C - 30° C (59° F - 86° F) [See USP
 Controlled Room Temperature].

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Manufactured for:
RANBAXY
LABORATORIES INC.
Jacksonville, FL 32257 USA
by: Ranbaxy Laboratories Ltd.
New Delhi - 110 019, India

NDC 10631-231-05

Ximino™ (minocycline hydrochloride) Extended-Release Capsules

112.5 mg*

Rx only

500 Capsules

*Each extended-release capsule contains: minocycline hydrochloride, USP equivalent to 112.5 mg minocycline.

Usual adult dosage: see package insert for dosage information.

KEEP THIS AND ALL MEDICATIONS OUT OF REACH OF CHILDREN.

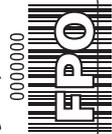
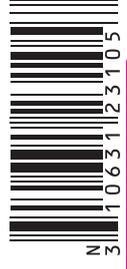
Dispense in tight, light-resistant containers as defined in the USP.

Protect from light, moisture, and excessive heat.

Store at 20° - 25° C (68° - 77° F); excursions are permitted to 15° C - 30° C (59° F - 86° F) [See USP Controlled Room Temperature].

This container is not intended for household use.

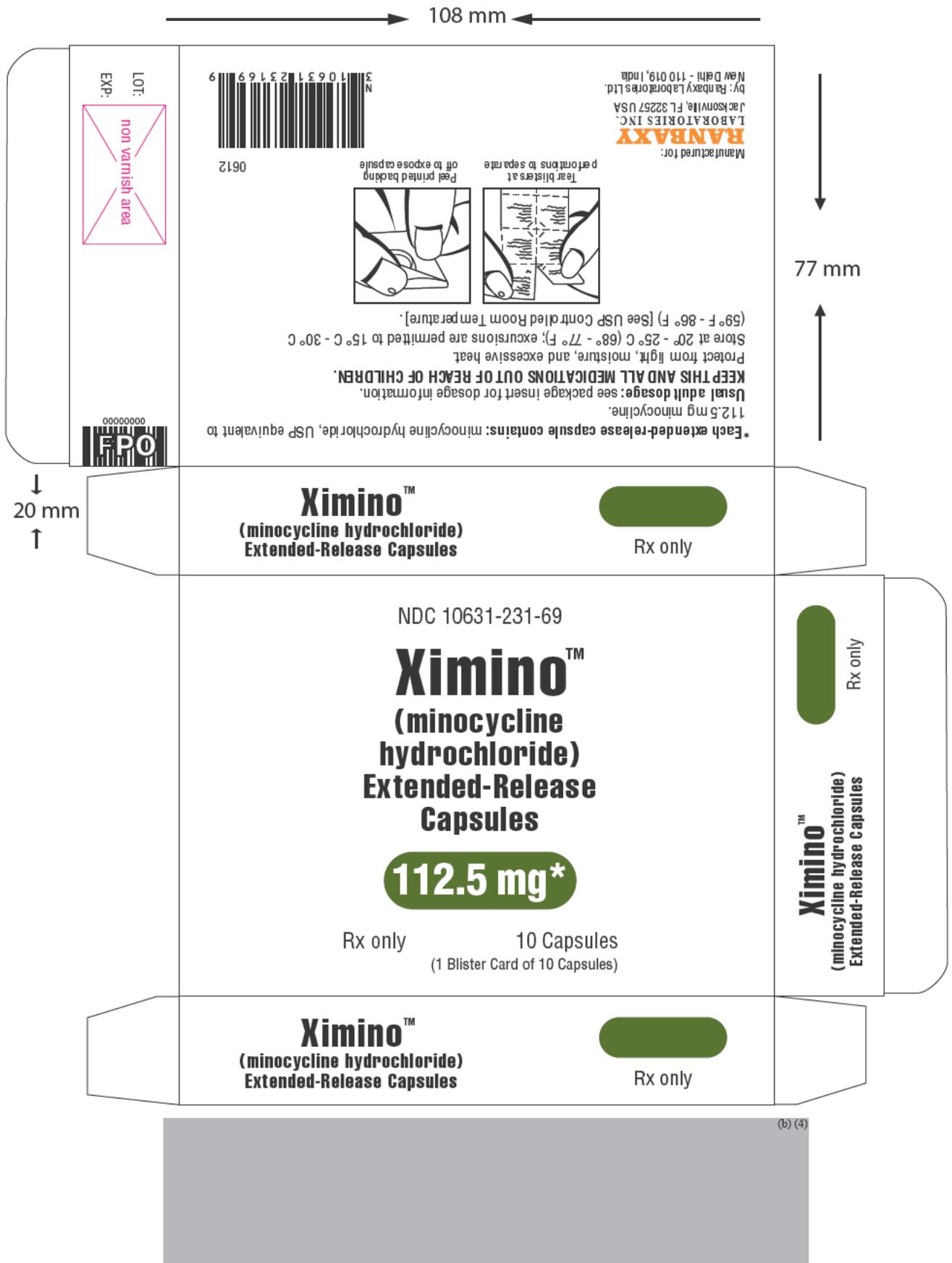
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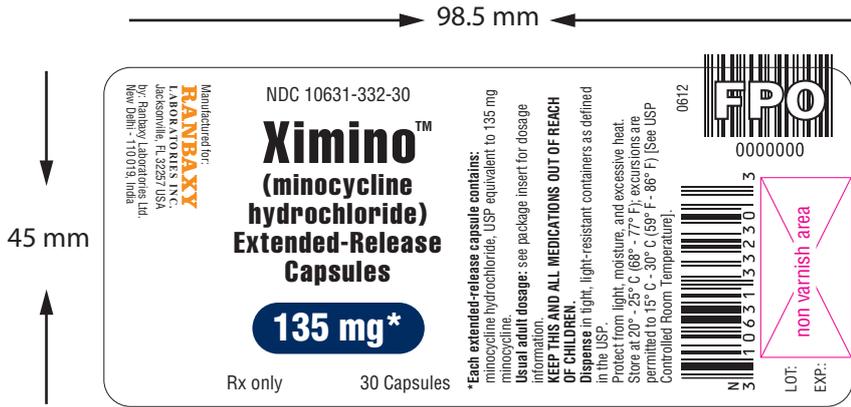
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60 mm

130 mm

Manufactured for:
RANBAXY
LABORATORIES INC.
Jacksonville, FL 32227 USA
By: Ranbaxy Laboratories Ltd.
New Delhi - 110 019, India

NDC 10631-332-05

Ximino™ (minocycline hydrochloride) Extended-Release Capsules

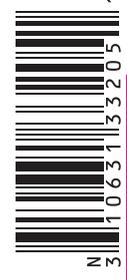
135 mg*

Rx only 500 Capsules

***Each extended-release capsule contains:**
minocycline hydrochloride, USP equivalent to
135 mg minocycline.
Usual adult dosage: see package insert for dosage
information.

**KEEP THIS AND ALL MEDICATIONS OUT OF REACH
OF CHILDREN.**
Dispense in tight, light-resistant containers as defined
in the USP.
Protect from light, moisture, and excessive heat.
Store at 20° - 25° C (68° - 77° F); excursions are
permitted to 15° C - 30° C (59° F - 86° F) [See USP
Controlled Room Temperature].
This container is not intended for household use.

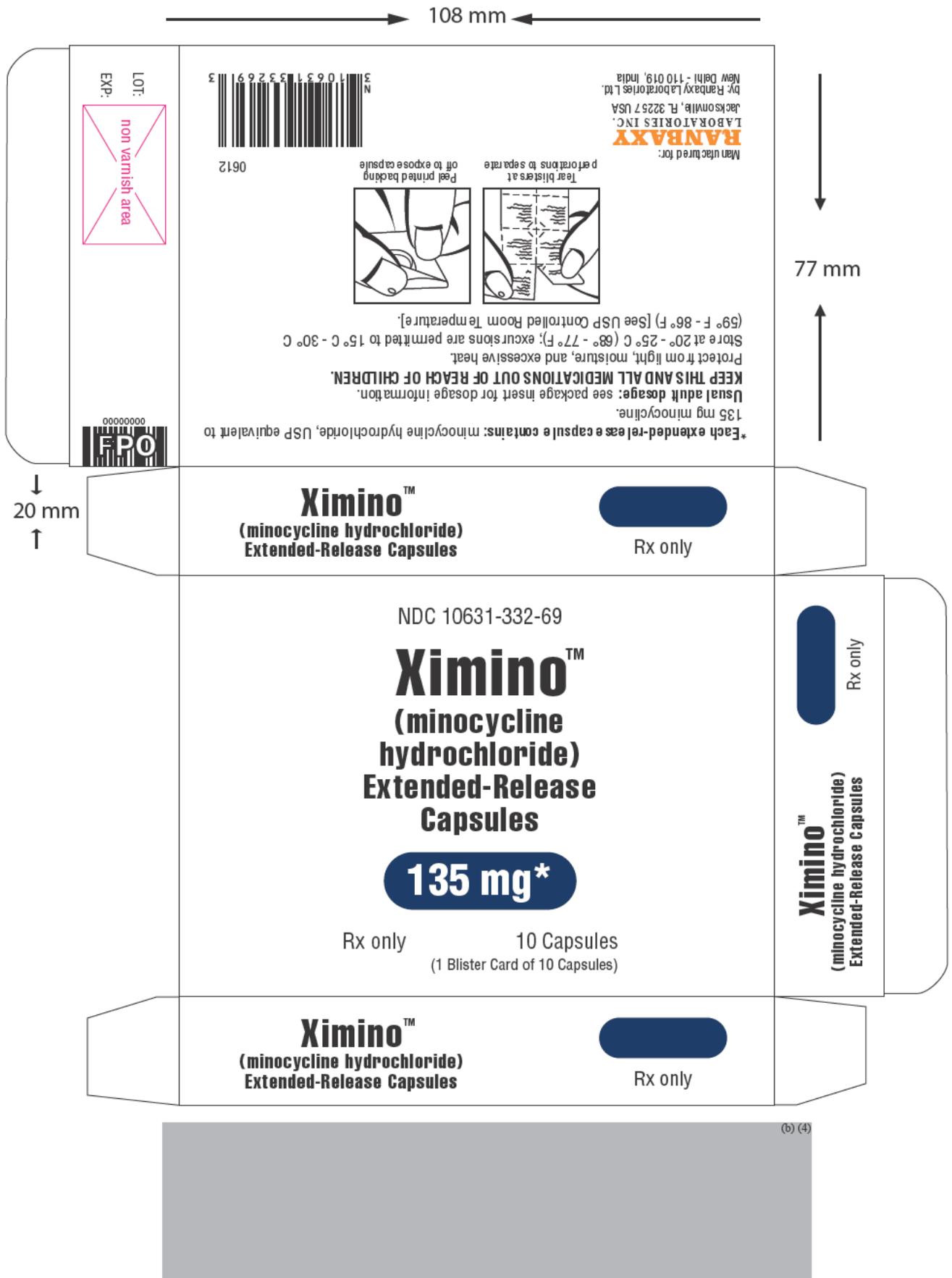
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This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

SUSAN J WALKER
07/11/2012