

ACCUTANE- isotretinoin capsule, gelatin coated
JG Pharma Inc.

Isotretinoin Capsules USP

CAUSES BIRTH DEFECTS



DO NOT GET PREGNANT

CONTRAINDICATIONS AND WARNINGS

Accutane™ must not be used by patients who are or may become pregnant. There is an extremely high risk that life-threatening birth defects will result if pregnancy occurs while taking Accutane in any amount, even for short periods of time. Potentially any fetus exposed during pregnancy can be affected. There are no accurate means of determining whether an exposed fetus has been affected.

Birth defects which have been documented following Accutane exposure include abnormalities of the face, eyes, ears, skull, central nervous system, cardiovascular system, and thymus and parathyroid glands. Cases of IQ scores less than 85 with or without other abnormalities have been reported. There is an increased risk of spontaneous abortion, and premature births have been reported.

Documented external abnormalities include: skull abnormality; ear abnormalities (including anotia, micropinna, small or absent external auditory canals); eye abnormalities (including microphthalmia); facial dysmorphism; cleft palate. Documented internal abnormalities include: CNS abnormalities (including cerebral abnormalities, cerebellar malformation, hydrocephalus, microcephaly, cranial nerve deficit); cardiovascular abnormalities; thymus gland abnormality; parathyroid hormone deficiency. In some cases death has occurred with certain of the abnormalities previously noted.

If pregnancy does occur during treatment of a patient who is taking Accutane, Accutane must be discontinued immediately and the patient should be referred to an Obstetrician-Gynecologist experienced in reproductive toxicity for further evaluation and counseling.

Special Prescribing Requirements

Because of Accutane's teratogenicity and to minimize fetal exposure, Accutane is approved for marketing only under a special restricted distribution program approved by the Food and Drug Administration. This REMS is called iPLEDGE®. Accutane must only be prescribed by prescribers who are registered and activated with the iPLEDGE Program. Accutane must only be dispensed by a pharmacy registered and activated with iPLEDGE, and must only be dispensed to patients who are enrolled and meet all the requirements of iPLEDGE (see **PRECAUTIONS).**

Table 1 Monthly Required iPLEDGE Interactions

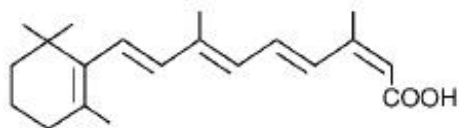
	Patients Who Can Become Pregnant	Patients Who Cannot Become Pregnant
PRESCRIBER		
Confirms patient counseling	X	X
Enters the 2 contraception		

Enters the 2 contraception forms chosen by the patient	X	
Enters pregnancy test results	X	
PATIENT		
Answers educational questions before every prescription	X	
Enters 2 forms of contraception	X	
PHARMACIST		
Contacts system to get an authorization	X	X

DESCRIPTION

Isotretinoin USP, a retinoid, is available as Accutane (isotretinoin capsules, USP) in 10 mg, 20 mg, 30 mg and 40 mg soft gelatin capsules for oral administration. Each capsule contains butylatedhydroxyanisole, edetate disodium, hydrogenated vegetable oil (Type-I and Type-II), medium chain triglyceride, refined soybean oil and white wax. Gelatin capsules contain ferric oxide red, ferric oxide yellow (for 30 mg), gelatin, glycerin, methyl paraben, propyl paraben, lake blend blue (LB-332) containing D&C Yellow No.10, FD&C Blue No.1 (for 10 mg), lake blend red (LB-1574) containing D&C Red No.27, D&C Red No.30 (for 20 mg), lake blend green (LB-333) containing D&C Yellow No.10, FD&C Blue No.1 (for 40 mg), lake blend white (TLB-1774) containing FD&C Blue No.2, titanium dioxide, and opacode black S-1-17823 containing iron oxide black, N-butyl alcohol, propylene glycol, ammonium hydroxide and shellac.

Chemically, isotretinoin is 13-cis-retinoic acid and is related to both retinoic acid and retinol (vitamin A). It is a yellow to slightly orange crystalline powder with a molecular weight of 300.44. The structural formula is:



Meets USP *Dissolution* Test 5.

CLINICAL PHARMACOLOGY

Isotretinoin is a retinoid, which when administered in pharmacologic dosages of 0.5 to 1 mg/kg/day (see **DOSAGE AND ADMINISTRATION**), inhibits sebaceous gland function and keratinization. The exact mechanism of action of isotretinoin is unknown.

Nodular Acne

Clinical improvement in nodular acne patients occurs in association with a reduction in sebum secretion. The decrease in sebum secretion is temporary and is related to the

dose and duration of treatment with Accutane, and reflects a reduction in sebaceous gland size and an inhibition of sebaceous gland differentiation. ¹

Pharmacokinetics

Absorption

Due to its high lipophilicity, oral absorption of isotretinoin is enhanced when given with a high-fat meal. In a crossover study, 74 healthy adult subjects received a single 80 mg oral dose (2 x 40 mg capsules) of Accutane under fasted and fed conditions. Both peak plasma concentration (C_{max}) and the total exposure (AUC) of isotretinoin were more than doubled following a standardized high-fat meal when compared with Accutane given under fasted conditions (see **Table 2**). The observed elimination half-life was unchanged. This lack of change in half-life suggests that food increases the bioavailability of isotretinoin without altering its disposition. The time to peak concentration (T_{max}) was also increased with food and may be related to a longer absorption phase. Therefore, Accutane should always be taken with food (see **DOSAGE AND ADMINISTRATION**). Clinical studies have shown that there is no difference in the pharmacokinetics of isotretinoin between patients with nodular acne and healthy subjects with normal skin.

Table 2 Pharmacokinetic Parameters of Isotretinoin Mean (%CV), N=74

Accutane 2 x 40 mg Capsules	AUC_{0-∞} (ng·hr/mL)	C_{max} (ng/mL)	T_{max} (hr)	t_{1/2}(hr)
Fed*	10,004 (22%)	862 (22%)	5.3 (77%)	21 (39%)
Fasted	3,703 (46%)	301 (63%)	3.2 (56%)	21 (30%)

*Eating a standardized high-fat meal

Distribution

Isotretinoin is more than 99.9% bound to plasma proteins, primarily albumin.

Metabolism

Following oral administration of isotretinoin, at least three metabolites have been identified in human plasma: 4-oxo-isotretinoin, retinoic acid (tretinoin), and 4-oxo-retinoic acid (4-oxotretinoin). Retinoic acid and 13-cis-retinoic acid are geometric isomers and show reversible interconversion. The administration of one isomer will give rise to the other. Isotretinoin is also irreversibly oxidized to 4-oxo-isotretinoin, which forms its geometric isomer 4-oxo-tretinoin.

After a single 80 mg oral dose of Accutane to 74 healthy adult subjects, concurrent administration of food increased the extent of formation of all metabolites in plasma when compared to the extent of formation under fasted conditions.

All of these metabolites possess retinoid activity that is in some in vitro models more than that of the parent isotretinoin. However, the clinical significance of these models is unknown. After multiple oral dose administration of isotretinoin to adult cystic acne patients (≥ 18 years), the exposure of patients to 4-oxo-isotretinoin at steady-state under fasted and fed conditions was approximately 3.4 times higher than that of

isotretinoin.

In vitro studies indicate that the primary P450 isoforms involved in isotretinoin metabolism are 2C8, 2C9, 3A4, and 2B6. Isotretinoin and its metabolites are further metabolized into conjugates, which are then excreted in urine and feces.

Elimination

Following oral administration of an 80 mg dose of ^{14}C -isotretinoin as a liquid suspension, ^{14}C -activity in blood declined with a half-life of 90 hours. The metabolites of isotretinoin and any conjugates are ultimately excreted in the feces and urine in relatively equal amounts (total of 65% to 83%). After a single 80 mg oral dose of Accutane to 74 healthy adult subjects under fed conditions, the mean $\pm$ SD elimination half-lives ($t_{1/2}$) of isotretinoin and 4- oxo-isotretinoin were 21 ± 8.2 hours and 24 ± 5.3 hours, respectively. After both single and multiple doses, the observed accumulation ratios of isotretinoin ranged from 0.9 to 5.43 in patients with cystic acne.

Special Patient Populations

Pediatric Patients

The pharmacokinetics of isotretinoin were evaluated after single and multiple doses in 38 pediatric patients (12 to 15 years) and 19 adult patients (≥ 18 years) who received Accutane for the treatment of severe recalcitrant nodular acne. In both age groups, 4- oxo-isotretinoin was the major metabolite; tretinoin and 4- oxo-tretinoin were also observed. The dose-normalized pharmacokinetic parameters for isotretinoin following single and multiple doses are summarized in **Table 3** for pediatric patients. There were no statistically significant differences in the pharmacokinetics of isotretinoin between pediatric and adult patients.

Table 3. Pharmacokinetic Parameters of Isotretinoin Following Single and Multiple Dose Administration in Pediatric Patients, 12 to 15 Years of Age Mean ($\pm$ SD), N=38*

Parameter	Isotretinoin (Single Dose)	Isotretinoin (Steady-State)
$C_{\max}$ (ng/mL)	573.25 (278.79)	731.98 (361.86)
AUC ₍₀₋₁₂₎ (ng·hr/mL)	3033.37 (1394.17)	5082 (2184.23)
AUC ₍₀₋₂₄₎ (ng·hr/mL)	6003.81 (2885.67)	–
$T_{\max}$ (hr)†	6 (1 to 24.6)	4 (0 to 12)
C_{ssmin} (ng/mL)	–	352.32 (184.44)
$T_{1/2}$ (hr)	–	15.69 (5.12)
CL/F (L/hr)	–	17.96 (6.27)

*The single and multiple dose data in this table were obtained following a non-standardized meal that is not comparable to the high-fat meal that was used in the study in **Table 2**.

† Median (range)

In pediatric patients (12 to 15 years), the mean $\pm$ SD elimination half-lives ($t_{1/2}$) of isotretinoin and 4- oxo-isotretinoin were 15.7 ± 5.1 hours and 23.1 ± 5.7 hours,

respectively. The accumulation ratios of isotretinoin ranged from 0.46 to 3.65 for pediatric patients.

INDICATIONS AND USAGE

Severe Recalcitrant Nodular Acne

Accutane is indicated for the treatment of severe recalcitrant nodular acne. Nodules are inflammatory lesions with a diameter of 5 mm or greater. The nodules may become suppurative or hemorrhagic. "Severe," by definition, ²means "many" as opposed to "few or several" nodules. Because of significant adverse effects associated with its use, Accutane should be reserved for patients with severe nodular acne who are unresponsive to conventional therapy, including systemic antibiotics. In addition, Accutane is indicated only for those patients who are not pregnant, because Accutane can cause life-threatening birth defects (see **Boxed CONTRAINDICATIONS AND WARNINGS**).

A single course of therapy for 15 to 20 weeks has been shown to result in complete and prolonged remission of disease in many patients. ^{1,3,4}If a second course of therapy is needed, it should not be initiated until at least 8 weeks after completion of the first course, because experience has shown that patients may continue to improve while off Accutane. The optimal interval before retreatment has not been defined for patients who have not completed skeletal growth (see **WARNINGS: Skeletal: Bone Mineral Density, Hyperostosis, Premature Epiphyseal Closure**).

CONTRAINDICATIONS

Pregnancy: Category X. See Boxed CONTRAINDICATIONS AND WARNINGS.

Allergic Reactions

Accutane is contraindicated in patients who are hypersensitive to this medication or to any of its components (see **PRECAUTIONS: Hypersensitivity**).

WARNINGS

Psychiatric Disorders

Accutane may cause depression, psychosis and, rarely, suicidal ideation, suicide attempts, suicide, and aggressive and/or violent behaviors. No mechanism of action has been established for these events (see **ADVERSE REACTIONS: Psychiatric**). Prescribers should read the brochure, *Recognizing Psychiatric Disorders in Adolescents and Young Adults: A Guide for Prescribers of Isotretinoin*. Prescribers should be alert to the warning signs of psychiatric disorders to guide patients to receive the help they need. Therefore, prior to initiation of Accutane therapy, patients and family members should be asked about any history of psychiatric disorder, and at each visit during therapy patients should be assessed for symptoms of depression, mood disturbance, psychosis, or aggression to determine if further evaluation may be necessary. Signs and symptoms of depression, as described in the brochure ("Recognizing Psychiatric Disorders in Adolescents

and Young Adults”), include sad mood, hopelessness, feelings of guilt, worthlessness or helplessness, loss of pleasure or interest in activities, fatigue, difficulty concentrating, change in sleep pattern, change in weight or appetite, suicidal thoughts or attempts, restlessness, irritability, acting on dangerous impulses, and persistent physical symptoms unresponsive to treatment. Patients should stop Accutane and the patient or a family member should promptly contact their prescriber if the patient develops depression, mood disturbance, psychosis, or aggression, without waiting until the next visit. Discontinuation of Accutane therapy may be insufficient; further evaluation may be necessary. While such monitoring may be helpful, it may not detect all patients at risk. Patients may report mental health problems or family history of psychiatric disorders. These reports should be discussed with the patient and/or the patient’s family. A referral to a mental health professional may be necessary. The physician should consider whether Accutane therapy is appropriate in this setting; for some patients the risks may outweigh the benefits of Accutane therapy.

Pseudotumor Cerebri

Accutane use has been associated with a number of cases of pseudotumor cerebri (benign intracranial hypertension), some of which involved concomitant use of tetracyclines. Concomitant treatment with tetracyclines should therefore be avoided. Early signs and symptoms of pseudotumor cerebri include papilledema, headache, nausea and vomiting, and visual disturbances. Patients with these symptoms should be screened for papilledema and, if present, they should be told to discontinue Accutane immediately and be referred to a neurologist for further diagnosis and care (see **ADVERSE REACTIONS: Neurological**).

Serious Skin Reactions

There have been post-marketing reports of erythema multiforme and severe skin reactions [e.g., Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN)] associated with isotretinoin use. These events may be serious and result in death, life-threatening events, hospitalization, or disability. Patients should be monitored closely for severe skin reactions, and discontinuation of Accutane should be considered if warranted.

Pancreatitis

Acute pancreatitis has been reported in patients with either elevated or normal serum triglyceride levels. **In rare instances, fatal hemorrhagic pancreatitis has been reported.** Accutane should be stopped if hypertriglyceridemia cannot be controlled at an acceptable level or if symptoms of pancreatitis occur.

Lipids

Elevations of serum triglycerides in excess of 800 mg/dL have been reported in patients treated with Accutane. Marked elevations of serum triglycerides were reported in approximately 25% of patients receiving Accutane in clinical trials. In addition, approximately 15% developed a decrease in high-density lipoproteins and about 7% showed an increase in cholesterol levels. In clinical trials, the effects on triglycerides,

HDL, and cholesterol were reversible upon cessation of Accutane therapy. Some patients have been able to reverse triglyceride elevation by reduction in weight, restriction of dietary fat and alcohol, and reduction in dose while continuing Accutane. ⁵

Blood lipid determinations should be performed before Accutane is given and then at intervals until the lipid response to Accutane is established, which usually occurs within 4 weeks. Especially careful consideration must be given to risk/benefit for patients who may be at high risk during Accutane therapy (patients with diabetes, obesity, increased alcohol intake, lipid metabolism disorder or familial history of lipid metabolism disorder). If Accutane therapy is instituted, more frequent checks of serum values for lipids and/or blood sugar are recommended (see **PRECAUTIONS: Laboratory Tests**).

The cardiovascular consequences of hypertriglyceridemia associated with Accutane are unknown.

Animal Studies: In rats given 8 or 32 mg/kg/day of isotretinoin (1.3 to 5.3 times the recommended clinical dose of 1 mg/kg/day after normalization for total body surface area) for 18 months or longer, the incidences of focal calcification, fibrosis and inflammation of the myocardium, calcification of coronary, pulmonary and mesenteric arteries, and metastatic calcification of the gastric mucosa were greater than in control rats of similar age. Focal endocardial and myocardial calcifications associated with calcification of the coronary arteries were observed in two dogs after approximately 6 to 7 months of treatment with isotretinoin at a dosage of 60 to 120 mg/kg/day (30 to 60 times the recommended clinical dose of 1 mg/kg/day, respectively, after normalization for total body surface area).

Hearing Impairment

Impaired hearing has been reported in patients taking Accutane; in some cases, the hearing impairment has been reported to persist after therapy has been discontinued. Mechanism(s) and causality for this event have not been established. Patients who experience tinnitus or hearing impairment should discontinue Accutane treatment and be referred for specialized care for further evaluation (see **ADVERSE REACTIONS: Special Senses**).

Hepatotoxicity

Clinical hepatitis considered to be possibly or probably related to Accutane therapy has been reported. Additionally, mild to moderate elevations of liver enzymes have been observed in approximately 15% of individuals treated during clinical trials, some of which normalized with dosage reduction or continued administration of the drug. If normalization does not readily occur or if hepatitis is suspected during treatment with Accutane, the drug should be discontinued and the etiology further investigated.

Inflammatory Bowel Disease

Accutane has been associated with inflammatory bowel disease (including regional ileitis) in patients without a prior history of intestinal disorders. In some instances, symptoms have been reported to persist after Accutane treatment has been stopped. Patients experiencing abdominal pain, rectal bleeding or severe diarrhea should discontinue Accutane immediately (see **ADVERSE REACTIONS: Gastrointestinal**).

Skeletal

Bone Mineral Density

Effects of multiple courses of Accutane on the developing musculoskeletal system are unknown. There is some evidence that long-term, high-dose, or multiple courses of therapy with isotretinoin have more of an effect than a single course of therapy on the musculoskeletal system. In an open-label clinical trial (N=217) of a single course of therapy with Accutane for severe recalcitrant nodular acne, bone density measurements at several skeletal sites were not significantly decreased (lumbar spine change $>-4\%$ and total hip change $>-5\%$) or were increased in the majority of patients. One patient had a decrease in lumbar spine bone mineral density $>4\%$ based on unadjusted data. Sixteen (7.9%) patients had decreases in lumbar spine bone mineral density $>4\%$, and all the other patients (92%) did not have significant decreases or had increases (adjusted for body mass index). Nine patients (4.5%) had a decrease in total hip bone mineral density $>5\%$ based on unadjusted data. Twenty-one (10.6%) patients had decreases in total hip bone mineral density $>5\%$, and all the other patients (89%) did not have significant decreases or had increases (adjusted for body mass index). Follow-up studies performed in eight of the patients with decreased bone mineral density for up to 11 months thereafter demonstrated increasing bone density in five patients at the lumbar spine, while the other three patients had lumbar spine bone density measurements below baseline values. Total hip bone mineral densities remained below baseline (range -1.6% to -7.6%) in five of eight patients (62.5%).

In a separate open-label extension study of ten patients, ages 13 to 18 years, who started a second course of Accutane 4 months after the first course, two patients showed a decrease in mean lumbar spine bone mineral density up to 3.25% (see

PRECAUTIONS: Pediatric Use).

Spontaneous reports of osteoporosis, osteopenia, bone fractures, and delayed healing of bone fractures have been seen in the Accutane population. While causality to Accutane has not been established, an effect cannot be ruled out. Longer term effects have not been studied. It is important that Accutane be given at the recommended doses for no longer than the recommended duration.

Hyperostosis

A high prevalence of skeletal hyperostosis was noted in clinical trials for disorders of keratinization with a mean dose of 2.24 mg/kg/day. Additionally, skeletal hyperostosis was noted in six of eight patients in a prospective study of disorders of keratinization.⁶ Minimal skeletal hyperostosis and calcification of ligaments and tendons have also been observed by x-ray in prospective studies of nodular acne patients treated with a single course of therapy at recommended doses. The skeletal effects of multiple Accutane treatment courses for acne are unknown.

In a clinical study of 217 pediatric patients (12 to 17 years) with severe recalcitrant nodular acne, hyperostosis was not observed after 16 to 20 weeks of treatment with approximately 1 mg/kg/day of Accutane given in two divided doses. Hyperostosis may require a longer time frame to appear. The clinical course and significance remain unknown.

Premature Epiphyseal Closure

There are spontaneous reports of premature epiphyseal closure in acne patients receiving recommended doses of Accutane. The effect of multiple courses of Accutane on epiphyseal closure is unknown.

Vision Impairment

Visual problems should be carefully monitored. All Accutane patients experiencing visual difficulties should discontinue Accutane treatment and have an ophthalmological examination (see **ADVERSE REACTIONS: Special Senses**).

Corneal Opacities

Corneal opacities have occurred in patients receiving Accutane for acne and more frequently when higher drug dosages were used in patients with disorders of keratinization. The corneal opacities that have been observed in clinical trial patients treated with Accutane have either completely resolved or were resolving at follow-up 6 to 7 weeks after discontinuation of the drug (see **ADVERSE REACTIONS: Special Senses**).

Decreased Night Vision

Decreased night vision has been reported during Accutane therapy and in some instances the event has persisted after therapy was discontinued. Because the onset in some patients was sudden, patients should be advised of this potential problem and warned to be cautious when driving or operating any vehicle at night.

PRECAUTIONS

Accutane must only be prescribed by prescribers who are enrolled and activated with the iPLEDGE REMS. Accutane must only be dispensed by a pharmacy enrolled and activated with iPLEDGE, and must only be dispensed to patients who are enrolled and meet all the requirements of iPLEDGE. Enrolled and activated pharmacies must receive Accutane only from wholesalers enrolled with iPLEDGE.

iPLEDGE REMS requirements for wholesalers, prescribers, and pharmacists are described below:

Wholesalers:

For the purpose of the iPLEDGE REMS, the term wholesaler refers to wholesaler, distributor, and/or chain pharmacy distributor. To distribute Accutane, wholesalers must be enrolled with iPLEDGE, and agree to meet all iPLEDGE requirements for wholesale distribution of isotretinoin products. Wholesalers must enroll with iPLEDGE by signing and returning the iPLEDGE wholesaler agreement that affirms they will comply with all iPLEDGE requirements for distribution of isotretinoin. These include:

- Enrolling prior to distributing isotretinoin and re-enrolling annually thereafter
- Distributing only FDA approved isotretinoin product
- Only shipping isotretinoin to
 - wholesalers enrolled in the iPLEDGE REMS with prior written consent from the manufacturer or
 - pharmacies licensed in the US and enrolled and activated in the iPLEDGE REMS
- Notifying the isotretinoin manufacturer (or delegate) of any non-enrolled and/or non-activated pharmacy or unenrolled wholesaler that attempts to order isotretinoin
- Complying with inspection/audit of wholesaler records for verification of compliance with the iPLEDGE REMS by the isotretinoin manufacturer (or delegate)

- Returning to the manufacturer (or delegate) any undistributed product if the wholesaler is deactivated by the iPLEDGE REMS or if the wholesaler chooses to not re-enroll annually

Prescribers:

To prescribe isotretinoin, the prescriber must be enrolled and activated with the pregnancy risk management program iPLEDGE. Prescribers can enroll by signing and returning the completed enrollment form. Prescribers can only activate their enrollment by affirming that they meet requirements and will comply with all iPLEDGE requirements by attesting to the following points:

- I know the risk and severity of fetal injury/birth defects from isotretinoin.
- I know the risk factors for unplanned pregnancy and the effective measures for avoidance of unplanned pregnancy.
- I have the expertise to provide the patient with detailed pregnancy prevention counseling, or I will refer the patient to an expert for such counseling, reimbursed by the manufacturer.
- I will comply with the iPLEDGE REMS requirements described in the booklets entitled *iPLEDGE REMS Prescriber Guide*.
- Before beginning treatment of patients who can become pregnant with isotretinoin, and on a monthly basis, the patient will be counseled to avoid pregnancy by using two forms of contraception simultaneously and continuously for at least one month prior to initiation of isotretinoin treatment, during isotretinoin treatment and for one month after discontinuing isotretinoin treatment, unless the patient commits to continuous abstinence, not having any sexual contact with a partner that could result in pregnancy.
- I will not prescribe isotretinoin to any patient who can become pregnant until verifying the patient has a negative screening pregnancy test and monthly negative CLIA-certified (Clinical Laboratory Improvement Amendment) pregnancy tests. Patients should have a pregnancy test at the completion of the entire course of isotretinoin and another pregnancy test one month later.
- I will report any pregnancy case that I become aware of while the patient who can become pregnant is on isotretinoin or one month after the last dose to the pregnancy registry.

To prescribe isotretinoin, the prescriber must access the iPLEDGE system via the internet (www.ipledgeprogram.com) or telephone (1-866-495-0654) to:

- 1) Enroll each patient in the iPLEDGE REMS.
- 2) Confirm monthly that each patient has received counseling and education.
- 3) For *patients who can become pregnant*:
 - Enter patient's two chosen forms of contraception each month.
 - Enter monthly result from CLIA-certified laboratory conducted pregnancy test.

Isotretinoin must only be prescribed to patients who are known not to be pregnant as confirmed by a negative CLIA-certified laboratory conducted pregnancy test.

Isotretinoin must only be dispensed by a pharmacy enrolled and activated with the pregnancy risk management program iPLEDGE and only when the enrolled patient meets all the requirements of the iPLEDGE REMS. Meeting the requirements for a patient

who can become pregnant signifies that the patient:

- Has been counseled and has signed a Patient Enrollment Form for Patients who can get Pregnant that contains warnings about the risk of potential birth defects if the fetus is exposed to isotretinoin. The patient must sign the informed consent form before starting treatment and patient counseling must also be done at that time and on a monthly basis thereafter.
- Has had two negative urine or serum pregnancy tests with a sensitivity of at least 25 mIU/mL before receiving the initial isotretinoin prescription. The first test (a screening test) is obtained by the prescriber when the decision is made to pursue qualification of the patient for isotretinoin. The second pregnancy test (a confirmation test) must be done in a CLIA-certified laboratory. The interval between the two tests should be at least 19 days.

- For patients with regular menstrual cycles, the second pregnancy test should be done during the first 5 days of the menstrual period immediately preceding the beginning of isotretinoin therapy and after the patient has used two forms of contraception for one month.

- For patients with amenorrhea, irregular cycles, or using a contraceptive form that precludes withdrawal bleeding, the second pregnancy test must be done immediately preceding the beginning of isotretinoin therapy and after the patient has used two forms of contraception for one month.

- Has had a negative result from a urine or serum pregnancy test in a CLIA-certified laboratory before receiving each subsequent course of isotretinoin. A pregnancy test must be repeated every month, in a CLIA-certified laboratory, prior to the patient who can become pregnant receiving each prescription.
- Has selected and has committed to use two forms of effective contraception simultaneously, at least one of which must be a primary form, unless the patient commits to continuous abstinence not having any sexual contact with a partner that could result in pregnancy, or the patient has undergone a hysterectomy or bilateral oophorectomy, or has been medically confirmed to be post-menopausal. Patients must use two forms of effective contraception for at least one month prior to initiation of isotretinoin therapy, during isotretinoin therapy, and for one month after discontinuing isotretinoin therapy. Counseling about contraception and behaviors associated with an increased risk of pregnancy must be repeated on a monthly basis.

If the patient has unprotected sexual contact with a partner that could result in pregnancy at any time one month before, during, or one month after therapy, the patient must:

1. Stop taking Accutane immediately, if on therapy
2. Have a pregnancy test at least 19 days after the last act of unprotected sexual contact with a partner that could result in pregnancy.
3. Start using two forms of effective contraception simultaneously again for one month before resuming Accutane therapy
4. Have a second pregnancy test after using two forms of effective contraception for one month as described above depending on whether the patient has regular menses or not.

Effective forms of contraception include both primary and secondary forms of

contraception:

Primary forms	Secondary forms
• tubal sterilization	<i>Barrier:</i>
• male vasectomy	• male latex condom with or without spermicide
• intrauterine device	• diaphragm with spermicide
• hormonal (combination oral contraceptives, transdermal patch, injectables, implantables, or vaginal ring)	• cervical cap with spermicide
	Other: • vaginal sponge (contains spermicide)

Any birth control method can fail. There have been reports of pregnancy from patients who can become pregnant who have used oral contraceptives, as well as transdermal patch/injectable/ implantable/vaginal ring hormonal birth control products; these pregnancies occurred while these patients were taking Accutane. These reports are more frequent for patients who use only a single form of contraception. Therefore, it is critically important that patients who can become pregnant use two effective forms of contraception simultaneously. Patients must receive warnings about the importance of choosing one primary method and a secondary method of contraception and that the patient must be compliant in use as outlined in the Guide for Patients who can get Pregnant.

Using two forms of contraception simultaneously substantially reduces the chances that a patient will become pregnant over the risk of pregnancy with either form alone. A drug interaction that decreases effectiveness of hormonal contraceptives has not been entirely ruled out for Accutane (see **PRECAUTIONS: Drug Interactions**). Although hormonal contraceptives are highly effective, prescribers are advised to consult the package insert of any medication administered concomitantly with hormonal contraceptives, since some medications may decrease the effectiveness of these birth control products.

Patients should be prospectively cautioned not to self-medicate with the herbal supplement St. John's Wort because a possible interaction has been suggested with hormonal contraceptives based on reports of breakthrough bleeding on oral contraceptives shortly after starting St. John's Wort. Pregnancies have been reported by users of combined hormonal contraceptives who also used some form of St. John's Wort.

If a pregnancy does occur during isotretinoin treatment, isotretinoin must be discontinued immediately. The patient should be referred to an Obstetrician-Gynecologist experienced in reproductive toxicity for further evaluation and counseling. Any suspected fetal exposure during or one month after isotretinoin therapy must be reported immediately to the FDA via the MedWatch number 1-800-FDA-1088 and also to the iPLEDGE Pregnancy Registry at 1-866-495-0654 or via the internet (www.ipleadgeprogram.com).

All Patients

Isotretinoin is contraindicated in patients who are pregnant. To receive isotretinoin all patients must meet all of the following conditions:

- Must be enrolled with the iPLEDGE REMS by the prescriber
- Must understand that life-threatening birth defects can occur with the use of isotretinoin by patients who can become pregnant
- Must be reliable in understanding and carrying out instructions
- Must sign a Patient Enrollment Form for Patients who cannot get Pregnant that contains warnings about the potential risks associated with isotretinoin
- Must obtain the prescription within 7 days of the date of specimen collection for the pregnancy test for patients who can become pregnant
- Must obtain the prescription within 30 days of the office visit for patients who cannot become pregnant
- Must not donate blood while on isotretinoin and for one month after treatment has ended
- Must not share isotretinoin with anyone, even someone who has similar symptoms

Patients Who Can Become Pregnant

Isotretinoin is contraindicated in patients who are pregnant. In addition to the requirements for all patients described above, patients who can become pregnant must meet the following conditions:

- Must NOT be pregnant or breast-feeding
- Must comply with the required pregnancy testing at a CLIA-certified laboratory
- Must obtain the prescription within 7 days of the date of specimen collection for the pregnancy test
- Must be capable of complying with the mandatory contraceptive measures required for isotretinoin therapy, or commit to continuous abstinence not having any sexual contact with a partner that could result in pregnancy, and understand behaviors associated with an increased risk of pregnancy
- Must understand that it is the patient who can become pregnant responsibility to avoid pregnancy one month before, during and one month after isotretinoin therapy
- Must have signed an additional Patient Enrollment Form for Patients who can get Pregnant, before starting isotretinoin, that contains warnings about the risk of potential birth defects if the fetus is exposed to isotretinoin
- Must access the iPLEDGE system via the internet (www.ipledgeprogram.com) or telephone (1-866-495-0654), before starting isotretinoin, on a monthly basis during therapy, and one month after the last dose to answer questions on the program requirements and to enter the patient's two chosen forms of contraception
- Must have been informed of the purpose and importance of providing information to the iPLEDGE REMS should the patient become pregnant while taking isotretinoin or within one month of the last dose

Pharmacists:

To dispense isotretinoin, pharmacies must be enrolled and activated with the pregnancy risk management program iPLEDGE.

The Responsible Site Pharmacist must enroll the pharmacy by signing and returning the Pharmacy Enrollment Form. After enrolling, the Responsible Site Pharmacist can only activate the pharmacy enrollment by affirming that they meet requirements and will comply with all iPLEDGE requirements by attesting to the following points:

- I know the risk and severity of fetal injury/birth defects from isotretinoin.
- I will train all pharmacists who participate in the filling and dispensing of isotretinoin prescriptions on the iPLEDGE REMS requirements.
- I will comply and seek to ensure all pharmacists who participate in the filling and dispensing of isotretinoin prescriptions comply with the iPLEDGE REMS requirements described in the booklet entitled *Pharmacist Guide*, specifically the "Key Information for Pharmacists" section including the following dispensing information:
 - Prescriptions must be obtained no later than the "Do Not Dispense To After" date, and if not obtained, then the RMA must be reversed in the iPLEDGE REMS system and the product returned to inventory.
- I will only obtain Accutane product from only iPLEDGE enrolled wholesalers.
- I will not sell, buy, borrow, loan or otherwise transfer isotretinoin in any manner to or from another pharmacy.
- I will return to the manufacturer (or delegate) any unused product if the pharmacy is deactivated by the iPLEDGE REMS or if the pharmacy chooses to not reactivate annually.
- I will not fill isotretinoin for any party other than a qualified patient.
- I will comply with the audits by the iPLEDGE Sponsors or third party acting on behalf of the iPLEDGE Sponsors to ensure that all processes and procedures are in place and being followed for the iPLEDGE REMS

To dispense isotretinoin, the pharmacist must:

1) be trained by the Responsible Site Pharmacist concerning the iPLEDGE REMS requirements.

2) obtain authorization from the iPLEDGE REMS via the internet (www.ipleddgeprogram.com), or telephone (1-866-495-0654) for every isotretinoin prescription. Authorization signifies that the patient has met all program requirements and is qualified to receive isotretinoin.

3) write the Risk Management Authorization (RMA) number on the prescription.

Accutane must only be dispensed:

- in no more than a 30-day supply
- with a Accutane Medication Guide
- after authorization from the iPLEDGE REMS
- prior to the "do not dispense to patient after" date provided by the iPLEDGE system (within 30 days of the office visit for patients who cannot become pregnant and within 7 days of the date of specimen collection for patients who can become pregnant)
- with a new prescription for refills and another authorization from the iPLEDGE REMS (No automatic refills are allowed)

An Accutane Medication Guide must be given to the patient each time Accutane is dispensed, as required by law. This Accutane Medication Guide is an important part of the risk management program for the patients.

Accutane must not be prescribed, dispensed or otherwise obtained through the internet or any other means outside of the iPLEDGE REMS. Only FDA-approved Accutane products must be distributed, prescribed, dispensed, and used. Patients must obtain Accutane prescriptions only at US licensed pharmacies.

A description of the iPLEDGE REMS educational materials available with iPLEDGE is provided below. The main goal of these educational materials is to explain the iPLEDGE REMS requirements and to reinforce the educational messages.

- 1) *Prescriber Guide* includes: isotretinoin teratogenic potential, information on pregnancy testing, and the method to complete a qualified isotretinoin prescription.
- 2) *Pharmacist Guide* includes: isotretinoin teratogenic potential and the method to obtain authorization to dispense an isotretinoin prescription.
- 3) The iPLEDGE REMS is a systematic approach to comprehensive patient education about their responsibilities and includes education for contraception compliance and reinforcement of educational messages. The iPLEDGE REMS includes information on the risks and benefits of Accutane which is linked to the Medication Guide dispensed by pharmacists with each isotretinoin prescription.
- 4) The *Fact Sheet for the iPLEDGE REMS* includes information on the iPLEDGE REMS, the product indications and safety information. This handout is provided to both the patient who can become pregnant and the patient who cannot become pregnant. The Patient Enrollment Form for Patients who cannot get Pregnant is also provided to all patients.
- 5) Patients who can become pregnant are provided with a *Guide for Patients Who Can Get Pregnant*, which contains information on isotretinoin therapy including precautions and warnings, and a second Patient Enrollment Form for Patients who can get Pregnant concerning birth defects, and a toll-free line which provides Accutane information in two languages.
- 6) The booklet for patients who can become pregnant, *Contraception Counseling Guide*, includes a referral program that offers patients free contraception counseling, reimbursed by the manufacturer, by a reproductive specialist; and a second Patient Enrollment form for Patients who can get Pregnant concerning birth defects.
- 7) The *Guide for Patients Who Can Get Pregnant* outlines the effectiveness of the approved contraception options. (see **Information for Patients**).

General

Although an effect of Accutane on bone loss is not established, physicians should use caution when prescribing Accutane to patients with a genetic predisposition for age-related osteoporosis, a history of childhood osteoporosis conditions, osteomalacia, or other disorders of bone metabolism. This would include patients diagnosed with anorexia nervosa and those who are on chronic drug therapy that causes drug-induced osteoporosis/osteomalacia and/or affects vitamin D metabolism, such as systemic corticosteroids and any anticonvulsant.

Patients may be at increased risk when participating in sports with repetitive impact where the risks of spondylolisthesis with and without pars fractures and hip growth plate injuries in early and late adolescence are known. There are spontaneous reports of fractures and/or delayed healing in patients while on therapy with Accutane or following cessation of therapy with Accutane while involved in these activities. While causality to Accutane has not been established, an effect must not be ruled out.

Information for Patients

See **PRECAUTIONS** and **Boxed CONTRAINDICATIONS AND WARNINGS**.

- Patients must be instructed to read the Medication Guide supplied as required by law when Accutane is dispensed. The complete text of the Medication Guide is reprinted at the end of this document. For additional information, patients must also be instructed to read the iPLEDGE REMS patient educational materials. All patients must sign the Patient Enrollment Form for Patients who cannot get Pregnant.
- Patients who can become pregnant must be instructed that they must not be pregnant when Accutane therapy is initiated, and that they should use two forms of effective contraception simultaneously for one month before starting Accutane, while taking Accutane, and for one month after Accutane has been stopped, unless they commit to continuous abstinence from not having any sexual contact with a partner that could result in pregnancy. They should also sign a second Patient Enrollment Form for Patients who can get Pregnant prior to beginning Accutane therapy. Patients who can become pregnant should be seen by their prescribers monthly and have a urine or serum pregnancy test, in a CLIA-certified laboratory, performed each month during treatment to confirm negative pregnancy status before another Accutane prescription is written (see

Boxed CONTRAINDICATIONS AND WARNINGS and PRECAUTIONS).

- Accutane is found in the semen of male patients taking Accutane, but the amount delivered to a patient who can become pregnant would be about 1 million times lower than an oral dose of 40 mg. While the no-effect limit for isotretinoin induced embryopathy is unknown, 20 years of postmarketing reports include four with isolated defects compatible with features of retinoid exposed fetuses; however two of these reports were incomplete, and two had other possible explanations for the defects observed.
- Prescribers should be alert to the warning signs of psychiatric disorders to guide patients to receive the help they need. Therefore, prior to initiation of Accutane treatment, patients and family members should be asked about any history of psychiatric disorder, and at each visit during treatment patients should be assessed for symptoms of depression, mood disturbance, psychosis, or aggression to determine if further evaluation may be necessary. **Signs and symptoms of depression include sad mood, hopelessness, feelings of guilt, worthlessness or helplessness, loss of pleasure or interest in activities, fatigue, difficulty concentrating, change in sleep pattern, change in weight or appetite, suicidal thoughts or attempts, restlessness, irritability, acting on dangerous impulses, and persistent physical symptoms unresponsive to treatment.** Patients should stop Accutane and the patient or a family member should promptly contact their prescriber if the patient develops depression, mood disturbance, psychosis, or aggression, without waiting until the next visit. Discontinuation of Accutane treatment may be insufficient; further evaluation may be necessary. While such monitoring may be helpful, it may not detect all patients at risk. Patients may report mental health problems or family history of psychiatric disorders. These reports should be discussed with the patient and/or the patient's family. A referral to a mental health professional may be necessary. The physician should consider whether Accutane therapy is appropriate in this setting; for some patients the risks may outweigh the benefits of Accutane therapy.
- Patients must be informed that some patients, while taking Accutane or soon after stopping Accutane, have become depressed or developed other serious mental problems. Symptoms of depression include sad, "anxious" or empty mood, irritability, acting on dangerous impulses, anger, loss of pleasure or interest in social or sports activities, sleeping too much or too little, changes in weight or appetite,

school or work performance going down, or trouble concentrating. Some patients taking Accutane have had thoughts about hurting themselves or putting an end to their own lives (suicidal thoughts). Some people tried to end their own lives. And some people have ended their own lives. There were reports that some of these people did not appear depressed. There have been reports of patients on Accutane becoming aggressive or violent. No one knows if isotretinoin caused these behaviors or if they would have happened even if the person did not take Accutane. Some people have had other signs of depression while taking Accutane.

- Patients must be informed that they must not share Accutane with anyone else because of the risk of birth defects and other serious adverse events.
- Patients must be informed not to donate blood during therapy and for one month following discontinuation of the drug because the blood might be given to a pregnant patient whose fetus must not be exposed to Accutane.
- Patients should be reminded to take Accutane with a meal (see **DOSAGE AND ADMINISTRATION**). To decrease the risk of esophageal irritation, patients should swallow the capsules with a full glass of liquid.
- Patients should be informed that transient exacerbation (flare) of acne has been seen, generally during the initial period of therapy.
- Wax epilation and skin resurfacing procedures (such as dermabrasion, laser) should be avoided during Accutane therapy and for at least 6 months thereafter due to the possibility of scarring (see **ADVERSE REACTIONS: Skin and Appendages**).
- Patients should be advised to avoid prolonged exposure to UV rays or sunlight.
- Patients should be informed that they may experience decreased tolerance to contact lenses during and after therapy.
- Patients should be informed that approximately 16% of patients treated with Accutane in a clinical trial developed musculoskeletal symptoms (including arthralgia) during treatment. In general, these symptoms were mild to moderate, but occasionally required discontinuation of the drug. Transient pain in the chest has been reported less frequently. In the clinical trial, these symptoms generally cleared rapidly after discontinuation of Accutane, but in some cases persisted (see **ADVERSE REACTIONS: Musculoskeletal**). There have been rare post marketing reports of rhabdomyolysis, some associated with strenuous physical activity (see **Laboratory Tests: CPK**).
- Pediatric patients and their caregivers should be informed that approximately 29% (104/358) of pediatric patients treated with Accutane developed back pain. Back pain was severe in 13.5% (14/104) of the cases and occurred at a higher frequency in female patients than male patients. Arthralgias were experienced in 22% (79/358) of pediatric patients. Arthralgias were severe in 7.6% (6/79) of patients. Appropriate evaluation of the musculoskeletal system should be done in patients who present with these symptoms during or after a course of Accutane. Consideration should be given to discontinuation of Accutane if any significant abnormality is found.
- Neutropenia and rare cases of agranulocytosis have been reported. Accutane should be discontinued if clinically significant decreases in white cell counts occur.
- Patients should be advised that severe skin reactions (Stevens-Johnson syndrome and toxic epidermal necrolysis) have been reported in post-marketing data. Accutane should be discontinued if clinically significant skin reactions occur.

Hypersensitivity

Anaphylactic reactions and other allergic reactions have been reported. Cutaneous

allergic reactions and serious cases of allergic vasculitis, often with purpura (bruises and red patches) of the extremities and extracutaneous involvement (including renal) have been reported. Severe allergic reaction necessitates discontinuation of therapy and appropriate medical management.

Drug Interactions

Drug Interactions

- *Vitamin A*: Because of the relationship of Accutane to vitamin A, patients should be advised against taking vitamin supplements containing vitamin A to avoid additive toxic effects.
- *Tetracyclines*: Concomitant treatment with Accutane and tetracyclines should be avoided because Accutane use has been associated with a number of cases of pseudotumor cerebri (benign intracranial hypertension), some of which involved concomitant use of tetracyclines.
- *Micro-dosed Progesterone Preparations*: Micro-dosed progesterone preparations ("minipills" that do not contain an estrogen) may be an inadequate method of contraception during Accutane therapy. Although other hormonal contraceptives are highly effective, there have been reports of pregnancy from patients who can become pregnant who have used combined oral contraceptives, as well as transdermal patch/injectable/implantable/vaginal ring hormonal birth control products. These reports are more frequent for patients who can become pregnant who use only a single form of contraception. It is not known if hormonal contraceptives differ in their effectiveness when used with Accutane. Therefore, it is critically important for patients who can become pregnant to select and commit to use two forms of effective contraception simultaneously, at least one of which must be a primary form (see **PRECAUTIONS**).
- *Norethindrone/ethinyl estradiol*: In a study of 31 premenopausal female patients with severe recalcitrant nodular acne receiving Ortho-Novum[®] 7/7/7 Tablets as an oral contraceptive agent, Accutane at the recommended dose of 1 mg/kg/day, did not induce clinically relevant changes in the pharmacokinetics of ethinyl estradiol and norethindrone and in the serum levels of progesterone, follicle-stimulating hormone (FSH) and luteinizing hormone (LH). Prescribers are advised to consult the package insert of medication administered concomitantly with hormonal contraceptives, since some medications may decrease the effectiveness of these birth control products.
- *St. John's Wort*: **Accutane use is associated with depression in some patients** (see **WARNINGS: Psychiatric Disorders** and **ADVERSE REACTIONS: Psychiatric**). Patients should be prospectively cautioned not to self-medicate with the herbal supplement St. John's Wort because a possible interaction has been suggested with hormonal contraceptives based on reports of breakthrough bleeding on oral contraceptives shortly after starting St. John's Wort. Pregnancies have been reported by users of combined hormonal contraceptives who also used some form of St. John's Wort.
- *Phenytoin*: Accutane has not been shown to alter the pharmacokinetics of phenytoin in a study in seven healthy volunteers. These results are consistent with the in vitro finding that neither isotretinoin nor its metabolites induce or inhibit the activity of the CYP 2C9 human hepatic P450 enzyme. Phenytoin is known to cause osteomalacia. No formal clinical studies have been conducted to assess if there is an interactive effect on bone loss between phenytoin and Accutane. Therefore, caution should be exercised when using these drugs together.

- *Systemic Corticosteroids:* Systemic corticosteroids are known to cause osteoporosis. No formal clinical studies have been conducted to assess if there is an interactive effect on bone loss between systemic corticosteroids and Accutane. Therefore, caution should be exercised when using these drugs together.

Laboratory Tests

- *Pregnancy Test:*

- Patients who can become pregnant must have had two negative urine or serum pregnancy tests with a sensitivity of at least 25 mIU/mL before receiving the initial Accutane prescription. The first test (a screening test) is obtained by the prescriber when the decision is made to pursue qualification of the patient for Accutane. The second pregnancy test (a confirmation test) must be done in a CLIA-certified laboratory. The interval between the two tests must be at least 19 days.

- For patients with regular menstrual cycles, the second pregnancy test must be done during the first 5 days of the menstrual period immediately preceding the beginning of Accutane therapy and after the patient has used 2 forms of contraception for 1 month.

- For patients with amenorrhea, irregular cycles, or using a contraceptive method that precludes withdrawal bleeding, the second pregnancy test must be done immediately preceding the beginning of Accutane therapy and after the patient has used 2 forms of contraception for 1 month.

- Each month of therapy, patients must have a negative result from a urine or serum pregnancy test. A pregnancy test must be repeated each month, in a CLIA-certified laboratory, prior to the patient who can become pregnant receiving each prescription.

- *Lipids:* Pretreatment and follow-up blood lipids should be obtained under fasting conditions. After consumption of alcohol, at least 36 hours should elapse before these determinations are made. It is recommended that these tests be performed at weekly or biweekly intervals until the lipid response to Accutane is established. The incidence of hypertriglyceridemia is one patient in four on Accutane therapy (see **WARNINGS: Lipids**).
- *Liver Function Tests:* Since elevations of liver enzymes have been observed during clinical trials, and hepatitis has been reported, pretreatment and follow-up liver function tests should be performed at weekly or biweekly intervals until the response to Accutane has been established (see **WARNINGS: Hepatotoxicity**).
- *Glucose:* Some patients receiving Accutane have experienced problems in the control of their blood sugar. In addition, new cases of diabetes have been diagnosed during Accutane therapy, although no causal relationship has been established.
- *CPK:* Some patients undergoing vigorous physical activity while on Accutane therapy have experienced elevated CPK levels; however, the clinical significance is unknown. There have been rare postmarketing reports of rhabdomyolysis, some associated with strenuous physical activity. In a clinical trial of 217 pediatric patients (12 to 17 years) with severe recalcitrant nodular acne, transient elevations in CPK were observed in 12% of patients, including those undergoing strenuous physical activity in association with reported musculoskeletal adverse events such as back pain, arthralgia, limb injury, or muscle sprain. In these patients, approximately half of the CPK elevations returned to normal within 2 weeks and half returned to normal within 4 weeks. No cases of rhabdomyolysis were reported in this trial.

Carcinogenesis, Mutagenesis and Impairment of Fertility

In male and female Fischer 344 rats given oral isotretinoin at dosages of 8 or 32 mg/kg/day (1.3 to 5.3 times the recommended clinical dose of 1 mg/kg/day, respectively, after normalization for total body surface area) for greater than 18 months, there was a dose-related increased incidence of pheochromocytoma relative to controls. The incidence of adrenal medullary hyperplasia was also increased at the higher dosage in both sexes. The relatively high level of spontaneous pheochromocytomas occurring in the male Fischer 344 rat makes it an equivocal model for study of this tumor; therefore, the relevance of this tumor to the human population is uncertain.

The Ames test was conducted with isotretinoin in two laboratories. The results of the tests in one laboratory were negative while in the second laboratory a weakly positive response (less than 1.6 x background) was noted in *S. typhimurium* TA100 when the assay was conducted with metabolic activation. No dose response effect was seen and all other strains were negative. Additionally, other tests designed to assess genotoxicity (Chinese hamster cell assay, mouse micronucleus test, *S. cerevisiae* D7 assay, in vitro clastogenesis assay with human-derived lymphocytes, and unscheduled DNA synthesis assay) were all negative.

In rats, no adverse effects on gonadal function, fertility, conception rate, gestation or parturition were observed at oral dosages of isotretinoin of 2, 8, or 32 mg/kg/day (0.3, 1.3, or 5.3 times the recommended clinical dose of 1 mg/kg/day, respectively, after normalization for total body surface area).

In dogs, testicular atrophy was noted after treatment with oral isotretinoin for approximately 30 weeks at dosages of 20 or 60 mg/kg/day (10 or 30 times the recommended clinical dose of 1.0 mg/kg/day, respectively, after normalization for total body surface area). In general, there was microscopic evidence for appreciable depression of spermatogenesis but some sperm were observed in all testes examined and in no instance were completely atrophic tubules seen. In studies of 66 men, 30 of whom were patients with nodular acne under treatment with oral isotretinoin, no significant changes were noted in the count or motility of spermatozoa in the ejaculate. In a study of 50 men (ages 17 to 32 years) receiving Accutan therapy for nodular acne, no significant effects were seen on ejaculate volume, sperm count, total sperm motility, morphology or seminal plasma fructose.

Pregnancy: Category X. See Boxed CONTRAINDICATIONS AND WARNINGS.

Nursing Mothers

It is not known whether this drug is excreted in human milk. Because of the potential for adverse effects, nursing mothers should not receive Accutane.

Pediatric Use

The use of Accutane in pediatric patients less than 12 years of age has not been studied. The use of Accutane for the treatment of severe recalcitrant nodular acne in pediatric patients ages 12 to 17 years should be given careful consideration, especially for those patients where a known metabolic or structural bone disease exists (see **PRECAUTIONS: General**). Use of Accutane in this age group for severe recalcitrant nodular acne is supported by evidence from a clinical study comparing 103 pediatric patients (13 to 17 years) to 197 adult patients (≥ 18 years). Results from this study

demonstrated that Accutane, at a dose of 1 mg/kg/day given in two divided doses, was equally effective in treating severe recalcitrant nodular acne in both pediatric and adult patients.

In studies with Accutane, adverse reactions reported in pediatric patients were similar to those described in adults except for the increased incidence of back pain and arthralgia (both of which were sometimes severe) and myalgia in pediatric patients (see

ADVERSE REACTIONS).

In an open-label clinical trial (N=217) of a single course of therapy with Accutane for severe recalcitrant nodular acne, bone density measurements at several skeletal sites were not significantly decreased (lumbar spine change $>-4\%$ and total hip change $>-5\%$) or were increased in the majority of patients. One patient had a decrease in lumbar spine bone mineral density $>4\%$ based on unadjusted data. Sixteen (7.9%) patients had decreases in lumbar spine bone mineral density $>4\%$, and all the other patients (92%) did not have significant decreases or had increases (adjusted for body mass index). Nine patients (4.5%) had a decrease in total hip bone mineral density $>5\%$ based on unadjusted data. Twenty-one (10.6%) patients had decreases in total hip bone mineral density $>5\%$, and all the other patients (89%) did not have significant decreases or had increases (adjusted for body mass index). Follow-up studies performed in eight of the patients with decreased bone mineral density for up to 11 months thereafter demonstrated increasing bone density in five patients at the lumbar spine, while the other three patients had lumbar spine bone density measurements below baseline values. Total hip bone mineral densities remained below baseline (range -1.6% to -7.6%) in five of eight patients (62.5%).

In a separate open-label extension study of ten patients, ages 13 to 18 years, who started a second course of Accutane 4 months after the first course, two patients showed a decrease in mean lumbar spine bone mineral density up to 3.25% (see

WARNINGS: Skeletal: Bone Mineral Density).

Geriatric Use

Clinical studies of isotretinoin did not include sufficient numbers of subjects aged 65 years and over to determine whether they respond differently from younger subjects. Although reported clinical experience has not identified differences in responses between elderly and younger patients, effects of aging might be expected to increase some risks associated with isotretinoin therapy (see **WARNINGS** and **PRECAUTIONS**).

ADVERSE REACTIONS

Clinical Trials and Postmarketing Surveillance

The adverse reactions listed below reflect the experience from investigational studies of Accutane, and the postmarketing experience. The relationship of some of these events to Accutane therapy is unknown. Many of the side effects and adverse reactions seen in patients receiving Accutane are similar to those described in patients taking very high doses of vitamin A (dryness of the skin and mucous membranes, e.g., of the lips, nasal passage, and eyes).

Dose Relationship

Cheilitis and hypertriglyceridemia are usually dose related. Most adverse reactions reported in clinical trials were reversible when therapy was discontinued; however, some persisted after cessation of therapy (see **WARNINGS** and **ADVERSE REACTIONS**).

Body as a Whole

allergic reactions, including vasculitis, systemic hypersensitivity (see **PRECAUTIONS: Hypersensitivity**), edema, fatigue, lymphadenopathy, weight loss

Cardiovascular

palpitation, tachycardia, vascular thrombotic disease, stroke

Endocrine/Metabolic

hypertriglyceridemia (see **WARNINGS: Lipids**), alterations in blood sugar levels (see **PRECAUTIONS: Laboratory Tests**)

Gastrointestinal

inflammatory bowel disease (see **WARNINGS: Inflammatory Bowel Disease**), hepatitis (see **WARNINGS: Hepatotoxicity**), pancreatitis (see **WARNINGS: Lipids**), bleeding and inflammation of the gums, colitis, esophagitis/esophageal ulceration, ileitis, nausea, other nonspecific gastrointestinal symptoms.

Hematologic

allergic reactions (see **PRECAUTIONS: Hypersensitivity**), anemia, thrombocytopenia, neutropenia, rare reports of agranulocytosis (see **PRECAUTIONS: Information for Patients**). See **PRECAUTIONS: Laboratory Tests** for other hematological parameters.

Musculoskeletal

skeletal hyperostosis, calcification of tendons and ligaments, premature epiphyseal closure, decreases in bone mineral density (see **WARNINGS: Skeletal**), musculoskeletal symptoms (sometimes severe) including back pain, myalgia, and arthralgia (see **PRECAUTIONS: Information for Patients**), transient pain in the chest (see **PRECAUTIONS: Information for Patients**), arthritis, tendonitis, other types of bone abnormalities, elevations of CPK/rare reports of rhabdomyolysis (see **PRECAUTIONS: Laboratory Tests**).

Neurological

pseudotumor cerebri (see **WARNINGS: Pseudotumor Cerebri**), dizziness, drowsiness, headache, insomnia, lethargy, malaise, nervousness, paresthesias, seizures, stroke, syncope, weakness

Psychiatric

suicidal ideation, suicide attempts, suicide, depression, psychosis, aggression, violent behaviors (see **WARNINGS: Psychiatric Disorders**), emotional instability.

Of the patients reporting depression, some reported that the depression subsided with discontinuation of therapy and recurred with reinstitution of therapy.

Reproductive System

abnormal menses.

Respiratory

bronchospasms (with or without a history of asthma), respiratory infection, voice alteration

Skin and Appendages

acne fulminans, alopecia (which in some cases persists), bruising, cheilitis (dry lips), dry mouth, dry nose, dry skin, epistaxis, eruptive xanthomas, ⁷erythema multiforme, flushing, fragility of skin, hair abnormalities, hirsutism, hyperpigmentation and hypopigmentation, infections (including disseminated herpes simplex), nail dystrophy, paronychia, peeling of palms and soles, photoallergic/photosensitizing reactions, pruritus, pyogenic granuloma, rash (including facial erythema, seborrhea, and eczema), Stevens-Johnson syndrome, sunburn susceptibility increased, sweating, toxic epidermal necrolysis, urticaria, vasculitis (including Wegener's granulomatosis; see **PRECAUTIONS: Hypersensitivity**), abnormal wound healing (delayed healing or exuberant granulation tissue with crusting; see **PRECAUTIONS: InformationforPatients**)

Special Senses

Hearing

hearing impairment (see **WARNINGS: HearingImpairment**), tinnitus.

Vision

corneal opacities (see **WARNINGS: CornealOpacities**), decreased night vision which may persist (see **WARNINGS: DecreasedNightVision**), cataracts, color vision disorder, conjunctivitis, dry eyes, eyelid inflammation, keratitis, optic neuritis, photophobia, visual disturbances

Urinary System

glomerulonephritis (see **PRECAUTIONS: Hypersensitivity**), nonspecific urogenital findings (see **PRECAUTIONS: LaboratoryTests** for other urological parameters)

Laboratory

Elevation of plasma triglycerides (see **WARNINGS: Lipids**), decrease in serum high-density lipoprotein (HDL) levels, elevations of serum cholesterol during treatment

Increased alkaline phosphatase, SGOT (AST), SGPT (ALT), GGTP or LDH (see **WARNINGS: Hepatotoxicity**)

Elevation of fasting blood sugar, elevations of CPK (see **PRECAUTIONS: LaboratoryTests**), hyperuricemia.

Decreases in red blood cell parameters, decreases in white blood cell counts (including severe neutropenia and rare reports of agranulocytosis; (see **PRECAUTIONS: InformationforPatients**), elevated sedimentation rates, elevated platelet counts, thrombocytopenia

White cells in the urine, proteinuria, microscopic or gross hematuria

OVERDOSAGE

The oral LD₅₀ of isotretinoin is greater than 4000 mg/kg in rats and mice (>600 times the recommended clinical dose of 1 mg/kg/day after normalization of the rat dose for total body surface area and >300 times the recommended clinical dose of 1 mg/kg/day after normalization of the mouse dose for total body surface area) and is approximately 1960 mg/kg in rabbits (653 times the recommended clinical dose of 1 mg/kg/day after normalization for total body surface area). In humans, overdosage has been associated with vomiting, facial flushing, cheilosis, abdominal pain, headache, dizziness, and ataxia. These symptoms quickly resolve without apparent residual effects.

Accutane causes life-threatening birth defects at any dosage (see **Boxed CONTRAINDICATIONS AND WARNINGS**). Patients who can become pregnant who present with isotretinoin overdose must be evaluated for pregnancy. Patients who are pregnant should receive counseling about the risks to the fetus, as described in the **Boxed CONTRAINDICATIONS AND WARNINGS**. Non-pregnant patients must be warned to avoid pregnancy for at least one month and receive contraceptive counseling as described in **PRECAUTIONS**. Educational materials for such patients can be obtained by calling the manufacturer. Because an overdose would be expected to result in higher levels of isotretinoin in semen than found during a normal treatment course, male patients should use a condom, or avoid reproductive sexual activity with a patient who is or might become pregnant, for one month after the overdose. All patients with isotretinoin overdose should not donate blood for at least one month.

DOSAGE AND ADMINISTRATION

Accutane should be administered with a meal (see **PRECAUTIONS: Information for Patients**).

The recommended dosage range for Accutane is 0.5 to 1 mg/kg/day given in two divided doses with food for 15 to 20 weeks. In studies comparing 0.1, 0.5, and 1 mg/kg/day,⁸ it was found that all dosages provided initial clearing of disease, but there was a greater need for retreatment with the lower dosages. During treatment, the dose may be adjusted according to response of the disease and/or the appearance of clinical side effects — some of which may be dose related. Adult patients whose disease is very severe with scarring or is primarily manifested on the trunk may require dose adjustments up to 2 mg/kg/day, as tolerated. Failure to take Accutane with food will significantly decrease absorption. Before upward dose adjustments are made, the patients should be questioned about their compliance with food instructions.

The safety of once daily dosing with Accutane has not been established. Once daily dosing is **not** recommended.

If the total nodule count has been reduced by more than 70% prior to completing 15 to 20 weeks of treatment, the drug may be discontinued. After a period of 2 months or more off therapy, and if warranted by persistent or recurring severe nodular acne, a second course of therapy may be initiated. The optimal interval before retreatment has not been defined for patients who have not completed skeletal growth. Long-term use of Accutane, even in low doses, has not been studied, and is not recommended. It is important that Accutane be given at the recommended doses for no longer than the recommended duration. The effect of long-term use of Accutane on bone loss is unknown (see **WARNINGS: Skeletal: Bone Mineral Density, Hyperostosis, and Premature Epiphyseal closure**).

Contraceptive measures must be followed for any subsequent course of therapy (see **PRECAUTIONS**).

Table 4 Accutane Dosing by Body Weight (Based on Administration With Food)

Body Weight		Total mg/day		
kilograms	pounds	0.5 mg/kg	1 mg/kg	2 mg/kg*
40	88	20	40	80
50	110	25	50	100
60	132	30	60	120
70	154	35	70	140
80	176	40	80	160
90	198	45	90	180
100	220	50	100	200

*See **DOSAGE AND ADMINISTRATION**: the recommended dosage range is 0.5 to 1 mg/kg/day.

INFORMATION FOR PHARMACISTS

Access the iPLEDGE Program system via the internet (www.ipledgeprogram.com), or telephone (1-866-495-0654) or through electronic telecommunication verification (via submission of an isotretinoin prescription claim) to obtain an authorization and the “**do not dispense to patient after**” date. Accutane must only be dispensed in no more than a 30 day supply.

REFILLS REQUIRE A NEW PRESCRIPTION AND A NEW AUTHORIZATION FROM THE iPLEDGE SYSTEM.

An Accutane Medication Guide must be given to the patient each time Accutane is dispensed, as required by law. This Accutane Medication Guide is an important part of the risk management program for the patient.

HOW SUPPLIED

Accutane (isotretinoin capsules USP) 10 mg are opaque blue elliptical soft gelatin capsules imprinted with black ink, “J1” on one side and are supplied in boxes of 30 containing 3 prescription packs of 10 capsules as unit dose blisters

Boxes of 30 (3 Prescription Packs of 10 capsules) NDC 72143-251-30

Accutane (isotretinoin capsules USP) 20 mg are opaque pink elliptical soft gelatin capsules imprinted with black ink, “J2” on one side and are supplied in boxes of 30 containing 3 prescription packs of 10 capsules as unit dose blisters

Boxes of 30 (3 Prescription Packs of 10 capsules) NDC 72143-252-30

Accutane (isotretinoin capsules USP) 30 mg are reddish brown colored opaque, elliptical shaped soft gelatin capsule imprinted with “J3” in black colored ink along the length of body on one side and are supplied in boxes of 30 containing 3 prescription packs of 10

capsules as unit dose blisters

Boxes of 30 (3 Prescription Packs of 10 capsules) NDC 72143-253-30

Accutane (isotretinoin capsules USP) 40 mg are opaque green elliptical soft gelatin capsules imprinted with black ink, "J4" on one side and are supplied in boxes of 30 containing 3 prescription packs of 10 capsules as unit dose blisters

Boxes of 30 (3 Prescription Packs of 10 capsules) NDC 72143-254-30

Storage

Store at 20° to 25°C (68° to 77°F). [See USP controlled room temperature]. Protect from light.

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Scottsdale, AZ 85258

Issued: 09/2022

JG Pharma

Patient Information

**Document Patient Identification
Number _____**

Patient Enrollment Form for Patients who can get Pregnant

To be completed by the patient (and their parent or guardian* if patient is under age 18) and signed by their doctor.

Read each item below and initial in the space provided to show that you understand each item and agree to follow your doctor's instructions.

Do not sign this consent and do not take isotretinoin if there is anything that you do not understand.

*A parent or guardian of a minor patient (under age 18) must also read and initial each item before signing the consent.

(Patient's Name)

1. I understand that there is a very high chance that my unborn baby could have life-threatening birth defects if I am pregnant or become pregnant while taking isotretinoin. This can happen with any amount and even if taken for short periods of time. This is why I must not be pregnant while taking isotretinoin.

Initial: _____

2. I understand that I must not get pregnant one month before, during the entire time of my treatment, and for one month after the end of my treatment with isotretinoin.

Initial: _____

3. I understand that I must avoid having any sexual contact (penis-vaginal) with a partner who could get me pregnant completely, or I must use two separate, effective forms of birth control (contraception) **at the same time**. The only exceptions are if I have had surgery to remove the uterus (a hysterectomy) or both of my ovaries (bilateral oophorectomy), or my doctor has medically confirmed that I am post-menopausal.

Initial: _____

4. I understand that hormonal birth control products are among the most effective forms of birth control. Combination birth control pills and other hormonal products include skin patches, shots, under-the-skin implants, vaginal rings, and intrauterine devices (IUDs). Any method of birth control can fail. That is why I must use two different birth control forms at the same time, starting one month before, during, and for one month after stopping therapy every time I have any sexual contact (penis-vaginal) with a partner who could get me pregnant, even if one of the forms I choose is hormonal birth control.

Initial: _____

5. I understand that the following are effective forms of birth control:

Primary forms	Secondary forms
• tying my tubes (tubal sterilization)	Barrier:
	• male latex condom with

• male vasectomy	• male latex condom with or without spermicide
• intrauterine device	• diaphragm with spermicide
• hormonal (combination birth control pills, skin patches, shots, under- the-skin implants, or vaginal ring)	• cervical cap with spermicide
	<i>Other:</i>
	• vaginal sponge (contains spermicide)

A diaphragm and cervical cap must each be used with spermicide, a special cream that kills sperm

I understand that at least one of my two forms of birth control must be a primary form.

Initial: _____

6. I will talk with my doctor about any medicines including herbal products I plan to take during my isotretinoin treatment because hormonal birth control forms may not work if I am taking certain medicines or herbal products.

Initial: _____

7. I may receive a free birth control counseling session from a doctor or other family planning expert. My isotretinoin doctor can give me an Isotretinoin Contraception Referral Form for this freeconsultation.

Initial: _____

8. I must begin using the birth control forms I have chosen as described above at least one month before I start taking isotretinoin.

Initial: _____

9. I cannot get my first prescription for isotretinoin unless my doctor has told me that I have two negative pregnancy test results. The first pregnancy test should be done when my doctor decides to prescribe isotretinoin. The second pregnancy test must be done in a lab during the first 5 days of my menstrual period right before starting isotretinoin therapy treatment, or as instructed by my doctor. I will then have one pregnancy test; in a lab.

- every month during treatment
- at the end of treatment
- and 1 month after stopping treatment

I must not start taking isotretinoin until I am sure that I am not pregnant, have negative results from two pregnancy tests, and the second test has been done in a lab.

Initial: _____

10. I have read and understand the materials my doctor has provided to me, including the *Guide for Patients Who Can Get Pregnant* and the Fact Sheet on the iPLEDGE REMS.

I have received information on emergency birth control.

Initial: _____

11. I must stop taking isotretinoin right away and call my doctor if I get pregnant, miss my expected menstrual period, stop using birth control, or have any sexual contact (penis-vaginal) with a partner who could get me pregnant without using my two birth control forms at any time.

Initial: _____

12. My doctor provided me information about the purpose and importance of providing information to the iPLEDGE REMS should I become pregnant while taking isotretinoin or within one month of the last dose. I understand that if I become pregnant, information about my pregnancy, my health, and my baby's health may be shared with the makers of isotretinoin, authorized parties who maintain the iPLEDGE REMS for the makers of isotretinoin and government health regulatory authorities.

Initial: _____

13. I understand that being qualified to receive isotretinoin in the iPLEDGE REMS means that

I:

- have had two negative urine or blood pregnancy tests before receiving the first isotretinoin prescription. The second test must be done in a lab. I must have a negative result from a urine or blood pregnancy test done in a lab repeated each month before I receive another isotretinoin prescription.
- have chosen and agreed to use two forms of effective birth control at the same time. At least one form must be a primary form of birth control, **unless I have chosen never to have any sexual contact (penis-vaginal) with a partner who could get me pregnant (abstinence)**, or I have undergone a hysterectomy or bilateral oophorectomy, or I have been medically confirmed to be post-menopausal. I must use two forms of birth control for at least one month before I start isotretinoin therapy, during therapy, and for one month after stopping therapy. I must receive counseling, repeated on a monthly basis, about birth control and behaviors associated with an increased risk of pregnancy.
- have signed a Patient Enrollment Form for Patients who can get Pregnant that contains warnings about the chance of possible birth defects if I am pregnant or become pregnant and my unborn baby is exposed to isotretinoin.
- have been informed of and understand the purpose and importance of providing information to the iPLEDGE REMS should I become pregnant while taking isotretinoin or within 1 month of the last dose.
- have interacted with the iPLEDGE REMS before starting isotretinoin and on a monthly basis to answer questions on the program requirements and to enter my two chosen forms of birth control.

Initial: _____

My doctor has answered all my questions about isotretinoin and I understand that it is my responsibility not to get pregnant one month before, during isotretinoin treatment, or for one month after I stop taking isotretinoin.

Initial: _____

I now authorize my doctor _____ to begin my treatment with isotretinoin.

Patient Signature: _____ Date: _____

Parent/Guardian Signature (if under age 18): _____ Date: _____

Please print: Patient Name and Address _____ Telephone
(_____)

I have fully explained to the patient, _____, the nature and purpose of the treatment described above and the risks to patients who can get pregnant. I have asked the patient if there are any questions regarding the treatment with isotretinoin and have answered those questions to the best of my ability.

Doctor Signature: _____ Date: _____

PLACE THE ORIGINAL SIGNED DOCUMENTS IN THE PATIENT'S MEDICAL RECORD. PLEASE PROVIDE A COPY TO THE PATIENT.

Document Patient Identification Number _____

Patient Enrollment Form for Patients who cannot get Pregnant

To be completed by patient (and parent or guardian if patient is under age 18) and signed by the doctor.

Read each item below and initial in the space provided if you understand each item and agree to follow your doctor's instructions. A parent or guardian of a patient under age 18 must also read and understand each item before signing the agreement.

Do not sign this agreement and do not take isotretinoin if there is anything that you do not understand about all the information you have received about using isotretinoin.

1. I, _____,

(Patient's Name)

understand that isotretinoin is a medicine used to treat severe nodular acne that cannot be cleared up by any other acne treatments, including antibiotics. In severe nodular acne, many red, swollen, tender lumps form in the skin. If untreated, severe nodular acne can lead to permanent scars.

Initials: _____

2. My doctor has told me about my choices for treating my acne.

Initials: _____

3. I understand that there are serious side effects that may happen while I am taking isotretinoin. These have been explained to me. These side effects include serious birth defects in babies of pregnant patients. [Note: There is a second Patient Information/Informed Consent About Birth Defects (for patients who can get pregnant)].

Initials: _____

4. I understand that some patients, while taking isotretinoin or soon after stopping isotretinoin, have become depressed or developed other serious mental problems. Symptoms of depression include sad, "anxious" or empty mood, irritability, acting on

dangerous impulses, anger, loss of pleasure or interest in social or sports activities, sleeping too much or too little, changes in weight or appetite, school or work performance going down, or trouble concentrating. Some patients taking isotretinoin have had thoughts about hurting themselves or putting an end to their own lives (suicidal thoughts). Some people tried to end their own lives. And some people have ended their own lives. There were reports that some of these people did not appear depressed. There have been reports of patients on isotretinoin becoming aggressive or violent. No one knows if isotretinoin caused these behaviors or if they would have happened even if the person did not take isotretinoin. Some people have had other signs of depression while taking isotretinoin (see #7 below).

Initials: _____

5. Before I start taking isotretinoin, I agree to tell my doctor if I have **ever** had symptoms of depression (see #7 below), been psychotic, attempted suicide, had any other mental problems, or take medicine for any of these problems. Being psychotic means having a loss of contact with reality, such as hearing voices or seeing things that are not there.

Initials: _____

6. Before I start taking isotretinoin, I agree to tell my doctor if, to the best of my knowledge, anyone in my family has ever had symptoms of depression, been psychotic, attempted suicide, or had any other serious mental problems.

Initials: _____

7. Once I start taking isotretinoin, I agree to stop using isotretinoin and tell my doctor right away if any of the following signs and symptoms of depression or psychosis happen. I:

- Start to feel sad or have crying spells
- Lose interest in activities I once enjoyed
- Sleep too much or have trouble sleeping
- Become more irritable, angry, or aggressive than usual (for example, temper outbursts, thoughts of violence)
- Have a change in my appetite or body weight
- Have trouble concentrating
- Withdraw from my friends or family
- Feel like I have no energy
- Have feelings of worthlessness or guilt
- Start having thoughts about hurting myself or taking my own life (suicidal thoughts)
- Start acting on dangerous impulses
- Start seeing or hearing things that are not real

Initials: _____

8. I agree to return to see my doctor every month I take isotretinoin to get a new prescription for isotretinoin, to check my progress, and to check for signs of side effects.

Initials: _____

9. Isotretinoin will be prescribed just for me — I will not share isotretinoin with other people because it may cause serious side effects, including birth defects.

Initials: _____

10. I will not give blood while taking isotretinoin or for 1 month after I stop taking isotretinoin. I understand that if someone who is pregnant gets my donated blood, their baby may be exposed to isotretinoin and may be born with serious birth defects.

Initials: _____

11. I have read the *Fact Sheet for the iPLEDGE REMS*, and other materials my provider provided me containing important safety information about isotretinoin. I understand all the information I received.

Initials: _____

12. My doctor and I have decided I should take isotretinoin. I understand that I must be qualified in the iPLEDGE REMS to have my prescription filled each month. I understand that I can stop taking isotretinoin at any time. I agree to tell my doctor if I stop taking isotretinoin.

Initials: _____

I now allow my doctor _____ to begin my treatment with isotretinoin.

Patient Signature: _____ Date: _____

Parent/Guardian Signature (if under age 18): _____ Date: _____

Patient Name (print) _____

Patient Address _____ Telephone (_____) _____

I have:

- fully explained to the patient _____, the nature and purpose of isotretinoin treatment, including its benefits and risks
- provided the patient with the appropriate educational materials, such as the *Fact Sheet for the iPLEDGE REMS* and asked the patient if there are any questions regarding their treatment with isotretinoin
- answered those questions to the best of my ability

Doctor Signature: _____ Date: _____

PLACE THE ORIGINAL SIGNED DOCUMENTS IN THE PATIENT'S MEDICAL RECORD. PLEASE PROVIDE A COPY TO THE PATIENT.

MEDICATION GUIDE

ACCUTANE® (ACK - U - TANE) (isotretinoin capsules)

Read the Medication Guide that comes with Accutane before you start taking it and each time you get a prescription. There may be new information. This information does not take the place of talking with your doctor about your medical condition or your treatment.

What is the most important information I should know about Accutane?

- Accutane is used to treat a type of severe acne (nodular acne) that has not been helped by other treatments, including antibiotics.
- Because Accutane can cause birth defects, Accutane is only for patients who can understand and agree to carry out all of the instructions in the iPLEDGE REMS.
- Accutane may cause serious mental health problems.

1. Birth defects (deformed babies), loss of a baby before birth (miscarriage), death of the baby, and early (premature) births. Patients who are pregnant or who plan to become pregnant must not take Accutane. **Patients must not get pregnant:**

- for 1 month before starting Accutane
- while taking Accutane
- for 1 month after stopping Accutane

If you get pregnant while taking Accutane, stop taking it right away and call your doctor. Doctors and patients should report all cases of pregnancy to:

- FDA MedWatch at 1-800-FDA-1088, and
- The iPLEDGE Pregnancy Registry at 1-866-495-0654

2. Serious mental health problems. Accutane may cause:

- **depression**
- **psychosis** (seeing or hearing things that are not real)
- **suicide.** Some patients taking Accutane have had thoughts about hurting themselves or putting an end to their own lives (suicidal thoughts). Some people tried to end their own lives. And some people have ended their own lives.

Stop Accutane and call your doctor right away if you or a family member notices that you have any of the following signs and symptoms of depression or psychosis:

- start to feel sad or have crying spells
- lose interest in activities you once enjoyed
- sleep too much or have trouble sleeping
- become more irritable, angry, or aggressive than usual (for example, temper outbursts, thoughts of violence)
- have a change in your appetite or body weight
- have trouble concentrating
- withdraw from your friends or family
- feel like you have no energy
- have feelings of worthlessness or guilt
- start having thoughts about hurting yourself or taking your own life (suicidal thoughts)
- start acting on dangerous impulses
- start seeing or hearing things that are not real

After stopping Accutane, you may also need follow-up mental health care if you had any of these symptoms.

What is Accutane?

Accutane is a medicine taken by mouth to treat the most severe form of acne (nodular

acne) that cannot be cleared up by any other acne treatments, including antibiotics.

Accutane can cause serious side effects (see **“What is the most important information I should know about Accutane?”**). Accutane can only be:

- prescribed by doctors that are enrolled in the iPLEDGE REMS
- dispensed by a pharmacy that is enrolled with the iPLEDGE REMS
- given to patients who are enrolled in the iPLEDGE REMS and agree to do everything required in the program.

What is severe nodular acne?

Severe nodular acne is when many red, swollen, tender lumps form in the skin. These can be the size of pencil erasers or larger. If untreated, nodular acne can lead to permanent scars.

Who should not take Accutane?

- **Do not take Accutane if you are pregnant, plan to become pregnant, or become pregnant during Accutane treatment.** Accutane causes life-threatening birth defects. See **“What is the most important information I should know about Accutane?”**
- **Do not take Accutane if you are allergic to anything in it.** See the end of this Medication Guide for a complete list of ingredients in Accutane.

What should I tell my doctor before taking Accutane?

Tell your doctor if you or a family member has any of the following health conditions:

- mental problems
- asthma
- liver disease
- diabetes
- heart disease
- bone loss (osteoporosis) or weak bones
- an eating problem called anorexia nervosa (where people eat too little)
- food or medicine allergies

Tell your doctor if you are pregnant or breastfeeding. Accutane must not be used by women who are pregnant or breastfeeding.

Tell your doctor about all of the medicines you take including prescription and nonprescription medicines, vitamins and herbal supplements. Accutane and certain other medicines can interact with each other, sometimes causing serious side effects. Especially tell your doctor if you take:

- **Vitamin A supplements.** Vitamin A in high doses has many of the same side effects as Accutane. Taking both together may increase your chance of getting side effects.
- **Tetracycline antibiotics.** Tetracycline antibiotics taken with Accutane can increase the chances of getting increased pressure in the brain.
- **Progestin-only birth control pills (mini-pills).** They may not work while you take Accutane. Ask your doctor or pharmacist if you are not sure what type you are using.
- **Dilantin (phenytoin).** This medicine taken with Accutane may weaken your bones.
- **Corticosteroid medicines.** These medicines taken with Accutane may weaken your

bones.

- **St. John's Wort.** This herbal supplement may make birth control pills work less effectively.

These medicines should not be used with Accutane unless your doctor tells you it is okay.

Know the medicines you take. Keep a list of them to show to your doctor and pharmacist. Do not take any new medicine without talking with your doctor.

How should I take Accutane?

- You must take Accutane exactly as prescribed. You must also follow all the instructions of the iPLEDGE REMS. Before prescribing Accutane, your doctor will:
- explain the iPLEDGE REMS to you
- have you sign the Patient Enrollment Form for Patients who cannot get Pregnant. Patients who can get pregnant must also sign another enrollment form.

You will not be prescribed Accutane if you cannot agree to or follow all the instructions of the iPLEDGE REMS.

- You will get no more than a 30 day supply of Accutane at a time. This is to make sure you are following the Accutane iPLEDGE Program. You should talk with your doctor each month about side effects.
- The amount of Accutane you take has been specially chosen for you. It is based on your body weight, and may change during treatment.
- Take Accutane 2 times a day with a meal, unless your doctor tells you otherwise.
Swallow your Accutane capsules whole with a full glass of liquid. Do not chew or suck on the capsule. Accutane can hurt the tube that connects your mouth to your stomach (esophagus) if it is not swallowed whole.
- If you miss a dose, just skip that dose. Do **not** take two doses at the same time.
- If you take too much Accutane or overdose, call your doctor or poison control center right away.
- Your acne may get worse when you first start taking Accutane. This should last only a short while. Talk with your doctor if this is a problem for you.
- You must return to your doctor as directed to make sure you don't have signs of serious side effects. Your doctor may do blood tests to check for serious side effects from Accutane. Patients who can get pregnant will get a pregnancy test each month.
- Patients who can get pregnant must agree to use two separate forms of effective birth control at the same time one month before, while taking, and for one month after taking Accutane. **You must access the iPLEDGE REMS system to answer questions about the program requirements and to enter your two chosen forms of birth control.** To access the iPLEDGE REMS system, go to www.ipledgeprogram.com or call 1-866-495-0654.

You must talk about effective birth control forms with your doctor or go for a free visit to talk about birth control with another doctor or family planning expert. Your doctor can arrange this free visit, which will be paid for by the company that makes Accutane.

If you have sex at any time without using two forms of effective birth control, get pregnant, or miss your expected period, stop using Accutane and call your doctor right away.

What should I avoid while taking Accutane?

- **Do not get pregnant** while taking Accutane and for one month after stopping Accutane. See “**What is the most important information I should know about Accutane?**”
- **Do not breast feed** while taking Accutane and for one month after stopping Accutane. We do not know if Accutane can pass through your milk and harm the baby.
- **Do not give blood** while you take Accutane and for one month after stopping Accutane. If someone who is pregnant gets your donated blood, their baby may be exposed to Accutane and may be born with birth defects.
- **Do not take other medicines or herbal products** with Accutane unless you talk to your doctor. See “**What should I tell my doctor before taking Accutane?**”
- **Do not drive at night until you know if Accutane has affected your vision.** Accutane may decrease your ability to see in the dark.
- **Do not have cosmetic procedures to smooth your skin, including waxing, dermabrasion, or laser procedures, while you are using Accutane and for at least 6 months after you stop.** Accutane can increase your chance of scarring from these procedures. Check with your doctor for advice about when you can have cosmetic procedures.
- **Avoid sunlight and ultraviolet lights** as much as possible. Tanning machines use ultraviolet lights. Accutane may make your skin more sensitive to light.
- **Do not share Accutane with other people.** It can cause birth defects and other serious health problems.

What are the possible side effects of Accutane?

- **Accutane can cause birth defects (deformed babies), loss of a baby before birth (miscarriage), death of the baby, and early (premature) births.** See “**What is the most important information I should know about Accutane?**”
- **Accutane may cause serious mental health problems.** See “**What is the most important information I should know about Accutane?**”
- **serious brain problems.** Accutane can increase the pressure in your brain. This can lead to permanent loss of eyesight and, in rare cases, death. Stop taking Accutane and call your doctor right away if you get any of these signs of increased brain pressure:
 - bad headache
 - blurred vision
 - dizziness
 - nausea or vomiting
 - seizures (convulsions)
 - stroke
- **skin problems.** Skin rash can occur in patients taking Accutane. In some patients a rash can be serious. Stop using Accutane and call your doctor right away if you develop conjunctivitis (red or inflamed eyes, like “pink eye”), a rash with a fever, blisters on legs, arms or face and/or sores in your mouth, throat, nose, eyes, or if your skin begins to peel.
- **stomach area (abdomen) problems.** Certain symptoms may mean that your internal organs are being damaged. These organs include the liver, pancreas, bowel (intestines), and esophagus (connection between mouth and stomach). If your organs are damaged, they may not get better even after you stop taking Accutane.

Stop taking Accutane and call your doctor if you get:

- severe stomach, chest or bowel pain
- trouble swallowing or painful swallowing
- new or worsening heartburn
- diarrhea
- rectal bleeding
- yellowing of your skin or eyes
- dark urine

- **bone and muscle problems.** Accutane may affect bones, muscles, and ligaments and cause pain in your joints or muscles. Tell your doctor if you plan hard physical activity during treatment with Accutane. Tell your doctor if you get:

- back pain
- joint pain
- broken bone. Tell all healthcare providers that you take Accutane if you break a bone.

Stop Accutane and call your doctor right away if you have muscle weakness. Muscle weakness with or without pain can be a sign of serious muscle damage.

Accutane may stop long bone growth in teenagers who are still growing.

- **hearing problems.** Stop using Accutane and call your doctor if your hearing gets worse or if you have ringing in your ears. Your hearing loss may be permanent.
- **vision problems.** Accutane may affect your ability to see in the dark. This condition usually clears up after you stop taking Accutane, but it may be permanent. Other serious eye effects can occur. Stop taking Accutane and call your doctor right away if you have any problems with your vision or dryness of the eyes that is painful or constant. If you wear contact lenses, you may have trouble wearing them while taking Accutane and after treatment.
- **lipid (fats and cholesterol in blood) problems.** Accutane can raise the level of fats and cholesterol in your blood. This can be a serious problem. Return to your doctor for blood tests to check your lipids and to get any needed treatment. These problems usually go away when Accutane treatment is finished.
- **serious allergic reactions.** Stop taking Accutane and get emergency care right away if you develop hives, a swollen face or mouth, or have trouble breathing. Stop taking Accutane and call your doctor if you get a fever, rash, or red patches or bruises on your legs.
- **blood sugar problems.** Accutane may cause blood sugar problems including diabetes. Tell your doctor if you are very thirsty or urinate a lot.
- **decreased red and white blood cells.** Call your doctor if you have trouble breathing, faint, or feel weak.
- **The common, less serious side effects of Accutane** are dry skin, chapped lips, dry eyes, and dry nose that may lead to nosebleeds. Call your doctor if you get any side effect that bothers you or that does not go away.

These are not all of the possible side effects with Accutane. Your doctor or pharmacist can give you more detailed information.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088 or JG Pharma, Inc. at 1-844-325-3350.

How should I store Accutane?

- Store Accutane at 68° to 77°F (20° to 25°C). Protect from light.
- **Keep Accutane and all medicines out of the reach of children.**

General Information about Accutane

Medicines are sometimes prescribed for conditions that are not mentioned in Medication Guides. Do not use Accutane for a condition for which it was not prescribed. Do not give Accutane to other people, even if they have the same symptoms that you have. It may harm them.

This Medication Guide summarizes the most important information about Accutane. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about Accutane that is written for healthcare professionals.

You can also call iPLEDGE REMS at 1-866-495-0654 or visit www.ipledgeprogram.com.

What are the ingredients in Accutane?

Active Ingredient: isotretinoin USP

Inactive Ingredients: butylated hydroxyanisole, edetate disodium, hydrogenated vegetable oil (Type-I and Type-II), medium chain triglyceride, refined soybean oil and white wax. Gelatin capsules contain ferric oxide red, ferric oxide yellow (for 30 mg), gelatin, glycerin, methylparaben, propyl paraben, lake blend blue (LB-332) containing D&C Yellow No.10, FD&C Blue No.1 (for 10 mg), lake blend red (LB-1574) containing D&C Red No.27, D&C Red No.30 (for 20 mg), lake blend green (LB-333) containing D&C Yellow No.10, FD&C Blue No.1 (for 40 mg), lake blend white (TLB-1774) containing FD&C Blue No.2, titanium dioxide, and opacode black S-1-17823 containing iron oxide black, N-butyl alcohol, propylene glycol, ammonium hydroxide and shellac.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

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JG Pharma Inc.,

Scottsdale, AZ 85258

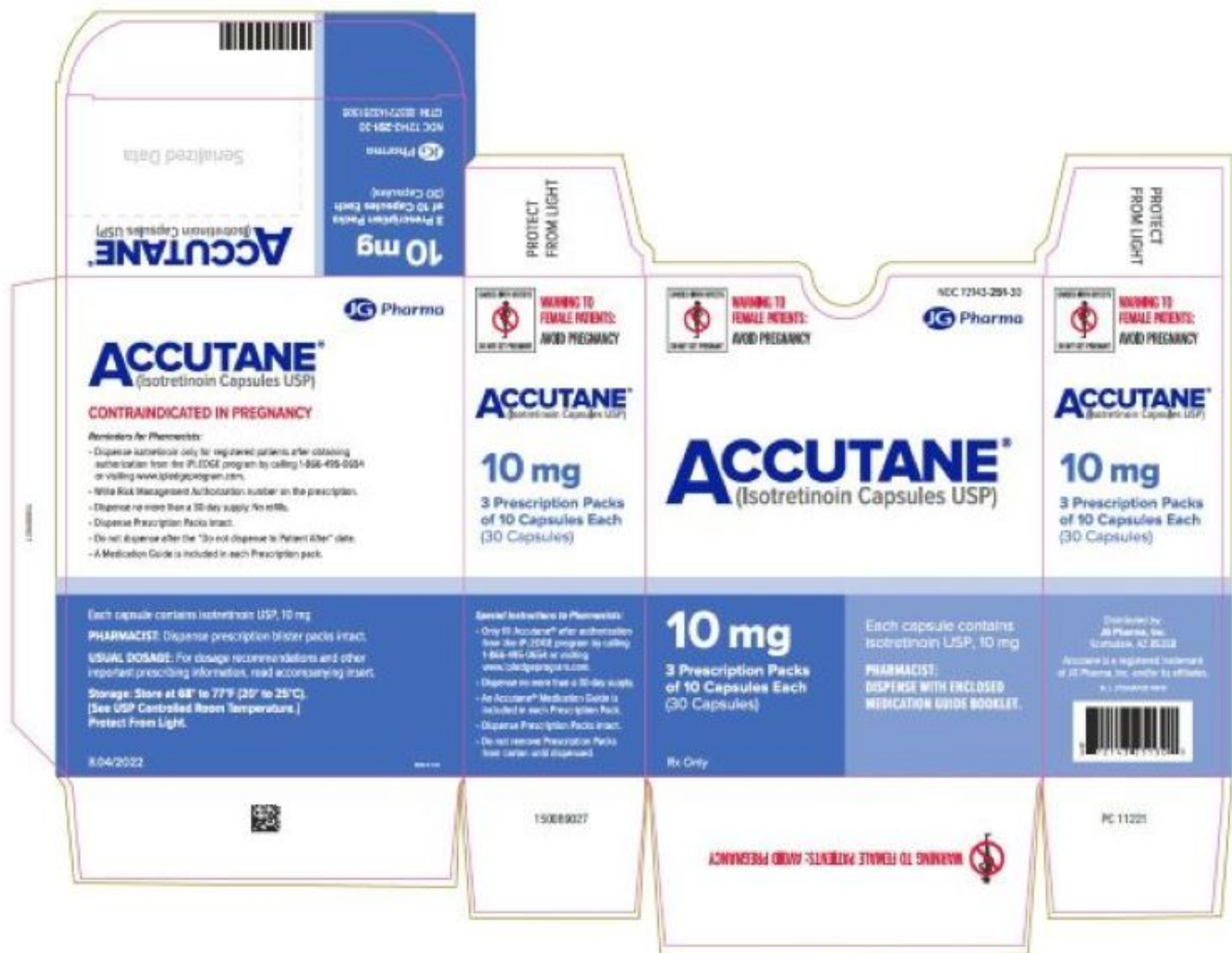
JGPharma

Revised: 09/2022

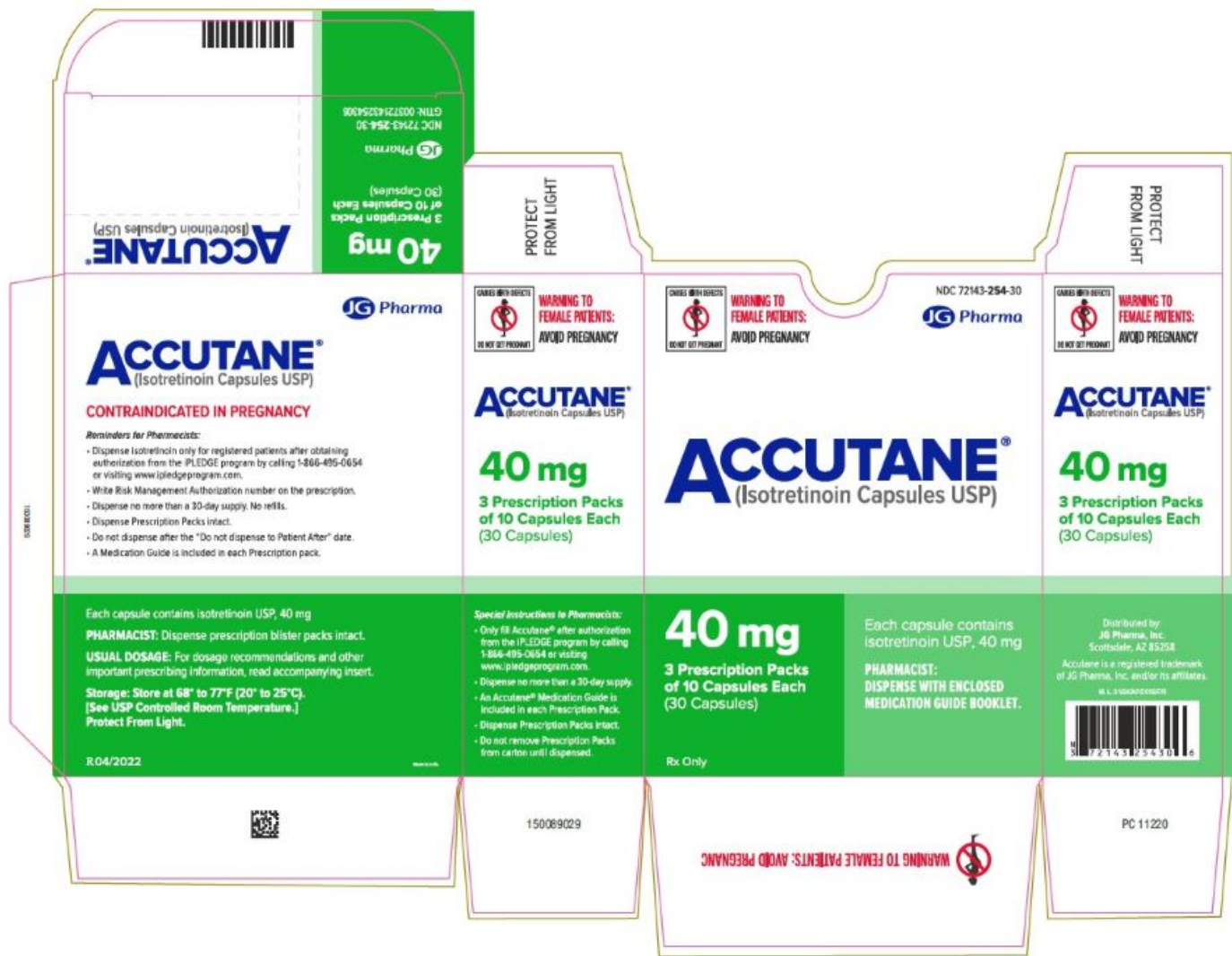
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PACKAGE LABEL.PRINCIPAL DISPLAY PANEL SECTION

Carton 10 mg : 30's pack (3x10's)



Carton 20 mg : 30's pack (3x10's)



ACCUTANE

isotretinoin capsule, gelatin coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:72143-251
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ISOTRETINOIN (UNII: EH28UP18IF) (ISOTRETINOIN - UNII:EH28UP18IF)	ISOTRETINOIN	10 mg

Inactive Ingredients

Ingredient Name	Strength
BUTYLATED HYDROXYANISOLE (UNII: REK4960K2U)	
EDETATE DISODIUM (UNII: 7FLD91C86K)	
MEDIUM-CHAIN TRIGLYCERIDES (UNII: C9H2L21V7U)	
SOYBEAN OIL (UNII: 241ATL177A)	

WHITE WAX (UNII: 7G1J5DA97F)	
GELATIN (UNII: 2G86QN327L)	
GLYCERIN (UNII: PDC6A3C0OX)	
METHYLPARABEN (UNII: A2I8C7HI9T)	
PROPYLPARABEN (UNII: Z8IX2SC1OH)	
D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
FERROSOFERRIC OXIDE (UNII: XM0M87F357)	
BUTYL ALCOHOL (UNII: 8PJ61P6TS3)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
SHELLAC (UNII: 46N107B71O)	

Product Characteristics

Color	blue	Score	no score
Shape	OVAL	Size	3mm
Flavor		Imprint Code	J1
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:72143-251-30	3 in 1 CARTON	08/01/2022	
1		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202099	08/01/2022	

ACCUTANE

isotretinoin capsule, gelatin coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:72143-252
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ISOTRETINOIN (UNII: EH28UP18IF) (ISOTRETINOIN - UNII:EH28UP18IF)	ISOTRETINOIN	20 mg

Inactive Ingredients

Ingredient Name	Strength
BUTYLATED HYDROXYANISOLE (UNII: REK4960K2U)	
EDETATE DISODIUM (UNII: 7FLD91C86K)	
MEDIUM-CHAIN TRIGLYCERIDES (UNII: C9H2L21V7U)	
SOYBEAN OIL (UNII: 241ATL177A)	
WHITE WAX (UNII: 7G1J5DA97F)	
GELATIN (UNII: 2G86QN327L)	
GLYCERIN (UNII: PDC6A3C0OX)	
METHYLPARABEN (UNII: A2I8C7HI9T)	
PROPYLPARABEN (UNII: Z8IX2SC1OH)	
D&C RED NO. 27 (UNII: 2LRS185U6K)	
D&C RED NO. 30 (UNII: 2S42T2808B)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
FERROSOFERRIC OXIDE (UNII: XM0M87F357)	
BUTYL ALCOHOL (UNII: 8PJ61P6TS3)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
SHELLAC (UNII: 46N107B71O)	

Product Characteristics

Color	pink	Score	no score
Shape	OVAL	Size	5mm
Flavor		Imprint Code	J2
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:72143-252-30	3 in 1 CARTON	08/01/2022	
1		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202099	08/01/2022	

ACCUTANE

isotretinoin capsule, gelatin coated

Product Information				
Product Type		HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:72143-254
Route of Administration		ORAL		
Active Ingredient/Active Moiety				
Ingredient Name			Basis of Strength	Strength
ISOTRETINOIN (UNII: EH28UP18IF) (ISOTRETINOIN - UNII:EH28UP18IF)			ISOTRETINOIN	40 mg
Inactive Ingredients				
Ingredient Name				Strength
BUTYLATED HYDROXYANISOLE (UNII: REK4960K2U)				
EDETATE DISODIUM (UNII: 7FLD91C86K)				
MEDIUM-CHAIN TRIGLYCERIDES (UNII: C9H2L21V7U)				
SOYBEAN OIL (UNII: 241ATL177A)				
WHITE WAX (UNII: 7G1J5DA97F)				
GELATIN (UNII: 2G86QN327L)				
GLYCERIN (UNII: PDC6A3C0OX)				
METHYLPARABEN (UNII: A2I8C7HI9T)				
PROPYLPARABEN (UNII: Z8IX2SC1OH)				
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)				
FERRIC OXIDE RED (UNII: 1K09F3G675)				
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)				
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)				
FERROSOFERRIC OXIDE (UNII: XM0M87F357)				
BUTYL ALCOHOL (UNII: 8PJ61P6TS3)				
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)				
SHELLAC (UNII: 46N107B71O)				
Product Characteristics				
Color	green	Score	no score	
Shape	OVAL	Size	5mm	
Flavor		Imprint Code	J4	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:72143-254-30	3 in 1 CARTON	08/01/2022	
1		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		
Marketing Information				

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202099	08/01/2022	

ACCUTANE

isotretinoin capsule, gelatin coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:72143-253
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ISOTRETINOIN (UNII: EH28UP18IF) (ISOTRETINOIN - UNII:EH28UP18IF)	ISOTRETINOIN	30 mg

Inactive Ingredients

Ingredient Name	Strength
BUTYLATED HYDROXYANISOLE (UNII: REK4960K2U)	
EDETATE DISODIUM (UNII: 7FLD91C86K)	
MEDIUM-CHAIN TRIGLYCERIDES (UNII: C9H2L21V7U)	
SOYBEAN OIL (UNII: 241ATL177A)	
WHITE WAX (UNII: 7G1J5DA97F)	
GELATIN (UNII: 2G86QN327L)	
GLYCERIN (UNII: PDC6A3C0OX)	
METHYLPARABEN (UNII: A2I8C7HI9T)	
PROPYLPARABEN (UNII: Z8IX2SC1OH)	
D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)	
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
FERROSOFERRIC OXIDE (UNII: XM0M87F357)	
BUTYL ALCOHOL (UNII: 8PJ61P6TS3)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
SHELLAC (UNII: 46N107B71O)	

Product Characteristics

Color	red (reddish brown)	Score	no score
Shape	OVAL	Size	5mm
Flavor		Imprint Code	J3
Contains			

Packaging

		Marketing Start	Marketing End
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#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:72143-253-30	3 in 1 CARTON	08/01/2022	
1		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA		ANDA202099	08/01/2022	

Labeler - JG Pharma Inc. (081048334)

Establishment

Name	Address	ID/FEI	Business Operations
Dr. Reddy's Laboratories Limited FTO-SEZ-Process Unit-02		650891380	analysis(72143-251, 72143-252, 72143-254, 72143-253) , manufacture(72143-251, 72143-252, 72143-254, 72143-253)

Establishment

Name	Address	ID/FEI	Business Operations
Reed-Lane Inc.		001819879	pack(72143-251, 72143-252, 72143-254, 72143-253)

Revised: 1/2026

JG Pharma Inc.