



CAUSES BIRTH DEFECTS

DO NOT GET PREGNANT

SORIATANE® (acitretin) CAPSULES

CONTRAINDICATIONS AND WARNINGS: Soriatane must not be used by females who are pregnant, or who intend to become pregnant during therapy or at any time for at least 3 years following discontinuation of therapy. Soriatane also must not be used by females who may not use reliable contraception while undergoing treatment and for at least 3 years following discontinuation of treatment. Acitretin is a metabolite of etretinate (Tegison®), and major human fetal abnormalities have been reported with the administration of acitretin and etretinate. Potentially, any fetus exposed can be affected.

Clinical evidence has shown that concurrent ingestion of acitretin and ethanol has been associated with the formation of etretinate, which has a significantly longer elimination half-life than acitretin. Because the longer elimination half-life of etretinate would increase the duration of teratogenic potential for female patients, ethanol must not be ingested by female patients either during treatment with Soriatane or for 2 months after cessation of therapy. This allows for elimination of acitretin, thus removing the substrate for transesterification to etretinate. The mechanism of the metabolic process for conversion of acitretin to etretinate has not been fully defined. It is not known whether substances other than ethanol are associated with transesterification.

Acitretin has been shown to be embryotoxic and/or teratogenic in rabbits, mice, and rats at oral doses of 0.6, 3 and 15 mg/kg, respectively. These doses are approximately 0.2, 0.3 and 3 times the maximum recommended therapeutic dose, respectively, based on a mg/m² comparison. Major human fetal abnormalities associated with acitretin and/or etretinate administration have been reported including meningoencephalocoele, meningoencephalocoele, multiple synostoses, facial dysmorphism, syndactyly, absence of terminal phalanges, malformations of hip, ankle and forearm, low-set ears, high palate, decreased cranial volume, cardiovascular malformation and alterations of the skull and cervical vertebrae.

Soriatane should be prescribed only by those who have special competence in the diagnosis and treatment of severe psoriasis, are experienced in the use of systemic retinoids, and understand the risk of teratogenicity.

Important Information for Women of Childbearing Potential: Soriatane should be considered only for women with severe psoriasis unresponsive to other therapies or whose clinical condition contraindicates the use of other treatments.

Females of reproductive potential must not be given a prescription for Soriatane until pregnancy is excluded. Soriatane is contraindicated in females of reproductive potential unless the patient meets ALL of the following conditions:

- Must have had 2 negative urine or serum pregnancy tests with a sensitivity of at least 25 mIU/mL before receiving the initial Soriatane prescription. The first test (a screening test) is obtained by the prescriber when the decision is made to pursue Soriatane therapy. The second pregnancy test (a confirmation test) should be done during the first 5 days of the menstrual period immediately preceding the beginning of Soriatane therapy. For patients with amenorrhea, the second test should be done at least 11 days after the last act of unprotected sexual intercourse (without using 2 effective forms of contraception [birth control] simultaneously). Timing of pregnancy testing throughout the treatment course should be monthly or individualized based on the prescriber's clinical judgment.

- Must have selected and have committed to use 2 effective forms of contraception (birth control) simultaneously, at least 1 of which must be a primary form, unless absolute abstinence is the chosen method, or the patient has undergone a hysterectomy or is clearly postmenopausal.

- Patients must use 2 effective forms of contraception (birth control) simultaneously for at least 1 month prior to initiation of Soriatane therapy, during Soriatane therapy, and for at least 3 years after discontinuing Soriatane therapy. A Soriatane Patient Referral Form is available so that patients can receive an initial free contraceptive counseling session and pregnancy testing. Counseling about contraception and behaviors associated with an increased risk of pregnancy must be repeated on a regular basis by the prescriber. To encourage compliance with this recommendation, a limited supply of the drug should be prescribed.

Effective forms of contraception include both primary and secondary forms of contraception. Primary forms of contraception include: tubal ligation, partner's vasectomy, intrauterine devices, birth control pills, and injectable/implantable/insertable/topical hormonal birth control products. Secondary forms of contraception include diaphragms, latex condoms, and cervical caps; each secondary form must be used with a spermicide.

Any birth control method can fail. Therefore, it is critically important that women of child-bearing potential use 2 effective forms of contraception (birth control) simultaneously. It has not been established if there is a pharmacokinetic interaction between acitretin and combined oral contraceptives. However, it has been established that acitretin interferes with the contraceptive effect of microdosed progesterin preparations. Microdosed "minipill" progesterin preparations are not recommended for use with Soriatane. It is not known whether other progestational contraceptives, such as implants and injectables, are adequate methods of contraception during acitretin therapy.

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 (see PRECAUTIONS).

- Must have signed a Patient Agreement/Informed Consent for Female Patients that contains warnings about the risk of potential birth defects if the fetus is exposed to Soriatane, about contraceptive failure, and about the fact that they must not ingest beverages or products containing ethanol while taking Soriatane and for 2 months after Soriatane treatment has been discontinued.

If pregnancy does occur during Soriatane therapy or at any time for at least 3 years following discontinuation of Soriatane therapy, the prescriber and patient should discuss the possible effects on the pregnancy. The available information is as follows:

Acitretin, the active metabolite of etretinate, is teratogenic and is contraindicated during pregnancy. The risk of severe fetal malformations is well established when systemic retinoids are taken during pregnancy. Pregnancy must also be prevented after stopping acitretin therapy, while the drug is being eliminated to below a threshold blood concentration that would be associated with an increased incidence of birth defects. Because this threshold has not been established for acitretin in humans and because elimination rates vary among patients, the duration of posttherapy contraception to achieve adequate elimination cannot be calculated precisely. It is strongly recommended that contraception be continued for at least 3 years after stopping treatment with acitretin, based on the following considerations:

- In the absence of transesterification to form etretinate, greater than 98% of the acitretin would be eliminated within 2 months, assuming a mean elimination half-life of 49 hours.
- In cases where etretinate is formed, as has been demonstrated with concomitant administration of acitretin and ethanol,
 - greater than 98% of the etretinate formed would be eliminated in 2 years, assuming a mean elimination half-life of 120 days.
 - greater than 98% of the etretinate formed would be eliminated in 3 years, based on the longest demonstrated elimination half-life of 168 days.

However, etretinate was found in plasma and subcutaneous fat in one patient reported to have had sporadic alcohol intake, 52 months after she stopped acitretin therapy.²

(Continued)

SORIATANE® (acitretin)

CONTRAINDICATIONS AND WARNINGS: (Continued)

- Severe birth defects have been reported where conception occurred during the time interval when the patient was being treated with acitretin and/or etretinate. In addition, severe birth defects have also been reported when conception occurred after the mother completed therapy. These cases have been reported both prospectively (before the outcome was known) and retrospectively (after the outcome was known). The events below are listed without distinction as to whether the reported birth defects are consistent with retinoid-induced embryopathy or not.

- There have been 318 prospectively reported cases involving pregnancies and the use of etretinate, acitretin or both. In 238 of these cases, the conception occurred after the last dose of etretinate (103 cases), acitretin (126) or both (9). Fetal outcome remained unknown in approximately one-half of these cases, of which 62 were terminated and 14 were spontaneous abortions. Fetal outcome is known for the other 168 cases and 15 of the outcomes were abnormal (including cases of absent hand/wrist, clubfoot, GI malformation, hypocalcemia, hypotonia, limb malformation, neonatal apnea/anemia, neonatal ichthyosis, placental disorder/death, undescended testicle and 5 cases of premature birth). In the 126 prospectively reported cases where conception occurred after the last dose of acitretin only, 43 cases involved conception at least 1 year but less than 2 years after the last dose. There were 3 reports of abnormal outcomes out of these 43 cases (involving limb malformation, GI tract malformations and premature birth). There were only 4 cases where conception occurred at least 2 years after the last dose but there were no reports of birth defects in these cases.

- There is also a total of 35 retrospectively reported cases where conception occurred at least one year after the last dose of etretinate, acitretin or both. From these cases there are 3 reports of birth defects when the conception occurred at least 1 year but less than 2 years after the last dose of acitretin (including heart malformations, Turner's Syndrome, and unspecified congenital malformations) and 4 reports of birth defects when conception occurred 2 or more years after the last dose of acitretin (including foot malformation, cardiac malformations (2 cases) and unspecified neonatal and infancy disorder). There were 3 additional abnormal outcomes in cases where conception occurred 2 or more years after the last dose of etretinate (including chromosome disorder, forearm aplasia, and stillbirth).

- Females who have taken Tegison (etretinate) must continue to follow the contraceptive recommendations for Tegison. Tegison is no longer marketed in the US; for information, call Connetics at 1-888-500-DERM (3376).

- Patients should not donate blood during and for at least 3 years following the completion of Soriatane therapy because women of childbearing potential must not receive blood from patients being treated with Soriatane.

Important Information For Males Taking Soriatane:

- Patients should not donate blood during and for at least 3 years following Soriatane therapy because women of childbearing potential must not receive blood from patients being treated with Soriatane.

- Samples of seminal fluid from 3 male patients treated with acitretin and 6 male patients treated with etretinate have been assayed for the presence of acitretin. The maximum concentration of acitretin observed in the seminal fluid of these men was 12.5 ng/mL. Assuming an ejaculate volume of 10 mL, the amount of drug transferred in semen would be 125 ng, which is 1/200,000 of a single 25 mg capsule. Thus, although it appears that residual acitretin in seminal fluid poses little, if any, risk to a fetus while a male patient is taking the drug or after it is discontinued, the no-effect limit for teratogenicity is unknown and there is no registry for birth defects associated with acitretin. The available data are as follows:

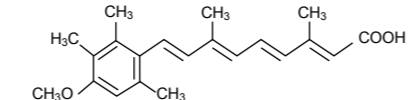
There have been 25 cases of reported conception when the male partner was taking acitretin. The pregnancy outcome is known in 13 of these 25 cases. Of these, 9 reports were retrospective and 4 were prospective (meaning the pregnancy was reported prior to knowledge of the outcome)³.

Timing of Paternal Acitretin Treatment Relative to Conception	Delivery of Healthy Neonate	Spontaneous Abortion	Induced Abortion	Total
At time of conception	5*	5	1	11
Discontinued ~4 weeks prior	0	1	1*	2
Discontinued ~6 to 8 months prior	0	1	0	1

*Four of 5 cases were prospective.
**With malformation pattern not typical of retinoid embryopathy (bilateral cystic hygromas of neck, hypoplasia of lungs bilateral, pulmonary atresia, VSD with overriding tricuspid aortosis).

For All Patients: A SORIATANE MEDICATION GUIDE MUST BE GIVEN TO THE PATIENT EACH TIME SORIATANE IS DISPENSED, AS REQUIRED BY LAW.

DESCRIPTION: Soriatane (acitretin), a retinoid, is available in 10 mg and 25 mg gelatin capsules for oral administration. Chemically, acitretin is all-*trans*-9-(4-methoxy-2,3,6-trimethylphenyl)-3,7-dimethyl-2,4,6,8-nontatetraenoic acid. It is a metabolite of etretinate and is related to both retinoic acid and retinol (vitamin A). It is a yellow to greenish-yellow powder with a molecular weight of 326.44. The structural formula is:



Each capsule contains acitretin, microcrystalline cellulose, sodium ascorbate, gelatin, black monogramming ink and maltodextrin (a mixture of polysaccharides).

Gelatin capsule shells contain gelatin, iron oxide (yellow, black, and red), and titanium dioxide. They may also contain benzyl alcohol, carbonylmethylcellulose sodium, edetate calcium disodium.

CLINICAL PHARMACOLOGY: The mechanism of action of Soriatane is unknown.

Pharmacokinetics: Absorption: Oral absorption of acitretin is optimal when given with food. For this reason, acitretin was given with food in all of the following studies. After administration of a single 50 mg oral dose of acitretin to 18 healthy subjects, maximum plasma concentrations ranged from 196 to 728 ng/mL (mean 416 ng/mL), and were achieved in 2 to 5 hours (mean 2.7 hours). The oral absorption of acitretin is linear, with proportional increases in doses from 25 to 100 mg. Approximately 72% (range 47% to 109%) of the administered dose was absorbed after a single 50 mg dose of acitretin was given to 12 healthy subjects.

Distribution: Acitretin is more than 99.9% bound to plasma proteins, primarily albumin.

Metabolism (see Pharmacokinetic Drug Interactions: Ethanol): Following oral absorption, acitretin undergoes extensive metabolism and interconversion by simple isomerization to its 13-*cis* form (*cis*-acitretin). The formation of *cis*-acitretin relative to parent compound is not altered by dose or fed/fasted conditions of oral administration of acitretin. Both parent compound and isomer are further metabolized into chain-shortened breakdown products and conjugates, which are excreted. Following multiple-dose administration of acitretin, steady-state concentrations of acitretin and *cis*-acitretin in plasma are achieved within approximately 3 weeks.

Elimination: The chain-shortened metabolites and conjugates of acitretin and *cis*-acitretin are ultimately excreted in the feces (34% to 54%) and urine (16% to 53%). The terminal elimination half-life of acitretin following multiple-dose administration is 49 hours (range 33 to 96 hours), and that of *cis*-acitretin under the same conditions is 63 hours (range 28 to 157 hours). The accumulation ratio of the parent compound is 1.2; that of *cis*-acitretin is 6.6.

Special Populations: Psoriasis: In an 8-week study of acitretin pharmacokinetics in patients with psoriasis, mean steady-state trough concentrations of acitretin increased in a dose proportional manner with dosages ranging from 10 to 50 mg daily. Acitretin plasma concentrations were non-measurable (<4 ng/mL) in all patients 3 weeks after cessation of therapy.

Elderly: In a multiple-dose study in healthy young (n=6) and elderly (n=8) subjects, a two-fold increase in acitretin plasma concentrations were seen in elderly subjects, although the elimination half-life did not change.

Renal Failure: Plasma concentrations of acitretin were significantly (59.3%) lower in end-stage renal failure subjects (n=6) when compared to age-matched controls, following single 50 mg oral doses. Acitretin was not removed by hemodialysis in these subjects.

Pharmacokinetic Drug Interactions (see also boxed CONTRAINDICATIONS AND WARNINGS and PRECAUTIONS: Drug Interactions): In studies of in vivo pharmacokinetic drug interactions, no interaction was seen between acitretin and cimetidine, digoxin, phenprocoumon or glyburide.

Ethanol: Clinical evidence has shown that etretinate (a retinoid with a much longer half-life, see below) can be formed with concurrent ingestion of acitretin and ethanol. In a two-way crossover study, all 10 subjects formed etretinate with concurrent ingestion of a single 100 mg oral dose of acitretin during a 3-hour period of ethanol ingestion (total ethanol, approximately 1.4 g/kg body weight). A mean peak etretinate concentration of 59 ng/mL (range 22 to 105 ng/mL) was observed, and extrapolation of AUC values indicated that the formation of etretinate in this study was comparable to a single 5 mg oral dose of etretinate. There was no detectable formation of

etretinate when a single 100 mg oral dose of acitretin was administered without concurrent ethanol ingestion, although the formation of etretinate without concurrent ethanol ingestion cannot be excluded (see boxed CONTRAINDICATIONS AND WARNINGS). Of 93 evaluable psoriatic patients on acitretin therapy in several foreign studies (10 to 80 mg/day), 16% had measurable etretinate levels (>5 ng/mL).

Etretinate has a much longer elimination half-life compared to that of acitretin. In one study the apparent mean terminal half-life after 6 months of therapy was approximately 120 days (range 84 to 168 days). In another study of 47 patients treated chronically with etretinate, 5 had detectable serum drug levels (in the range of 0.5 to 12 ng/mL) 2.1 to 2.9 years after therapy was discontinued. The long half-life appears to be due to storage of etretinate in adipose tissue.

Progestin-only Contraceptives: It has not been established if there is a pharmacokinetic interaction between acitretin and combined oral contraceptives. However, it has been established that acitretin interferes with the contraceptive effect of microdosed progesterin preparations. Microdosed "minipill" progesterin preparations are not recommended for use with Soriatane. It is not known whether other progestational contraceptives, such as implants and injectables, are adequate methods of contraception during acitretin therapy.

CLINICAL STUDIES: In two double-blind placebo controlled studies, Soriatane was administered once daily to patients with severe psoriasis (ie, covering at least 10% to 20% of the body surface area). At 8 weeks (see Table 1) patients treated in Study A with 50 mg Soriatane per day showed significant improvements (p<0.05) relative to baseline and to placebo in the physician's global evaluation and in the mean ratings of severity of psoriasis (scaling, thickness, and erythema). In Study B, differences from baseline and from placebo were statistically significant (p<0.05) for all variables at both the 25 mg and 50 mg doses; it should be noted for Study B that no statistical adjustment for multiplicity was carried out.

Table 1. Summary of the Soriatane Efficacy Results of the 8-Week Double-Blind Phase of Studies A and B

Efficacy Variables	Study A		Study B		
	Placebo (N=29)	50 mg (N=29)	Placebo (N=72)	25 mg (N=74)	50 mg (N=71)
Physician's Global Evaluation					
Baseline	4.62	4.55	4.43	4.37	4.49
Mean Change After 8 Weeks	-0.29	-2.00*	-0.06	-1.06*	-1.57*
Scaling					
Baseline	4.10	3.76	3.97	4.11	4.10
Mean Change After 8 Weeks	-0.22	-1.62*	-0.21	-1.50*	-1.78*
Thickness					
Baseline	4.10	4.10	4.03	4.11	4.20
Mean Change After 8 Weeks	-0.39	-2.10*	-0.18	-1.43*	-2.11*
Erythema					
Baseline	4.21	4.59	4.42	4.24	4.45
Mean Change After 8 Weeks	-0.33	-2.10*	-0.37	-1.12*	-1.65*

*Values were statistically significantly different from placebo and from baseline (p<0.05). No adjustment for multiplicity was done for Study B.

The efficacy variables consisted of: the mean severity rating of scale, lesion thickness, erythema, and the physician's global evaluation of the current status of the disease. Ratings of scaling, erythema, and lesion thickness, and the ratings of the global assessments were made using a seven-point scale (0=none, 1=trace, 2=mild, 3=mild-moderate, 4=moderate, 5=moderate-severe, 6=severe).

A subset of 141 patients from both pivotal studies A and B continued to receive Soriatane in an open fashion for up to 24 weeks. At the end of the treatment period, all efficacy variables, as indicated in Table 2, were significantly improved (p<0.01) from baseline, including extent of psoriasis, mean ratings of psoriasis severity and physician's global evaluation.

Table 2. Summary of the First Course of Soriatane Therapy (24 Weeks)

Variables	Study A	Study B
Mean Total Daily Soriatane Dose (mg)	42.8	43.1
Mean Duration of Therapy (Weeks)	21.1	22.6
Physician's Global Evaluation	N=39	N=98
Baseline	4.43	4.43
Mean Change From Baseline	-2.26*	-2.60*
Scaling	N=59	N=132
Baseline	3.97	4.07
Mean Change From Baseline	-2.15*	-2.42*
Thickness	N=59	N=132
Baseline	4.00	4.12
Mean Change From Baseline	-2.44*	-2.66*
Erythema	N=59	N=132
Baseline	4.35	4.33
Mean Change From Baseline	-2.31*	-2.29*

*Indicates that the difference from baseline was statistically significant (p<0.01).

The efficacy variables consisted of: the mean severity rating of scale, lesion thickness, erythema, and the physician's global evaluation of the current status of the disease. Ratings of scaling, erythema, and lesion thickness, and the ratings of the global assessments were made using a seven-point scale (0=none, 1=trace, 2=mild, 3=mild-moderate, 4=moderate, 5=moderate-severe, 6=severe).

All efficacy variables improved significantly in a subset of 55 patients from Study A treated for a second, 6-month maintenance course of therapy (for a total of 12 months of treatment); a small subset of patients (n=4) from Study A continued to improve after a third 6-month course of therapy (for a total of 18 months of treatment).

INDICATIONS AND USAGE: Soriatane is indicated for the treatment of severe psoriasis in adults. Because of significant adverse effects associated with its use, Soriatane should be prescribed only by those knowledgeable in the systemic use of retinoids. In females of reproductive potential, Soriatane should be reserved for non-pregnant patients who are unresponsive to other therapies or whose clinical condition contraindicates the use of other treatments (see boxed CONTRAINDICATIONS AND WARNINGS — Soriatane can cause severe birth defects).

Most patients experience relapse of psoriasis after discontinuing therapy. Subsequent courses, when clinically indicated, have produced efficacy results similar to the initial course of therapy.

CONTRAINDICATIONS: Pregnancy Category X (see boxed CONTRAINDICATIONS AND WARNINGS). Soriatane is contraindicated in patients with severely impaired liver or kidney function and in patients with chronic abnormally elevated blood lipid values (see boxed WARNINGS: Hepatotoxicity, WARNINGS: Lipids and Possible Cardiovascular Effects, and PRECAUTIONS).

An increased risk of hepatitis has been reported to result from combined use of methotrexate and etretinate. Consequently, the combination of methotrexate with Soriatane is also contraindicated (see PRECAUTIONS: Drug Interactions).

Since both Soriatane and tetracyclines can cause increased intracranial pressure, their combined use is contraindicated (see WARNINGS: Pseudotumor Cerebri).

Soriatane is contraindicated in cases of hypersensitivity to the preparation (acitretin or excipients) or to other retinoids.

WARNINGS: (see also boxed CONTRAINDICATIONS AND WARNINGS)

Hepatotoxicity: Of the 525 patients treated in US clinical trials, 2 had clinical jaundice with elevated serum bilirubin and transaminases considered related to Soriatane treatment. Liver function test results in these patients returned to normal after Soriatane was discontinued. Two of the 1283 patients treated in European clinical trials developed biopsy-confirmed toxic hepatitis. A second biopsy in one of these patients revealed nodular regenerative hyperplasia suggestive of cirrhosis. One patient in a Canadian clinical trial of 63 patients developed a three-fold increase of transaminases. A liver biopsy of this patient showed mild lobular disarray, multifocal hepatocyte loss and mild triaditis of the portal tracts compatible with acute reversible hepatic injury. The patient's transaminase levels returned to normal 2 months after Soriatane was discontinued.

The potential of Soriatane therapy to induce hepatotoxicity was prospectively evaluated using liver biopsies in an open-label study of 128 patients. Pretreatment and posttreatment

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biopsies were available for 87 patients. A comparison of liver biopsy findings before and after therapy revealed 49 (58%) patients showed no change, 21 (25%) improved and 14 (17%) patients had a worsening of their liver biopsy status. For 6 patients, the classification changed from class 0 (no pathology) to class I (normal fatty infiltration; moderate variability and portal inflammation; both mild); for 7 patients, the change was from class I to class II (fatty infiltration, nuclear variability, portal inflammation and focal necrosis; all moderate to severe); and for 1 patient, the change was from class II to class IIIb (fibrosis, moderate to severe). No correlation could be found between liver function test result abnormalities and the change in liver biopsy status, and no cumulative dose relationship was found.

Elevations of AST (SGOT), ALT (SGPT), GGT (GGTP) or LDH have occurred in approximately 1 in 3 patients treated with Soriatane. Of the 525 patients treated in clinical trials in the US, treatment was discontinued in 20 (3.8%) due to elevated liver function test results. If hepatotoxicity is suspected during treatment with Soriatane, the drug should be discontinued and the etiology further investigated.

Ten of 652 patients treated in US clinical trials of etretinate, of which acitretin is the active metabolite, had clinical or histologic hepatitis considered to be possibly or probably related to etretinate treatment. There have been reports of hepatitis-related deaths worldwide; a few of these patients had received etretinate for a month or less before presenting with hepatic symptoms or signs.

Hyperostosis: In adults receiving long-term treatment with Soriatane, appropriate examinations should be periodically performed in view of possible ossification abnormalities (see ADVERSE REACTIONS). Because the frequency and severity of atrogenic bony abnormality in adults is low, radiographic examinations are only warranted in the presence of symptoms or long-term use of Soriatane. If such disorders arise, the continuation of therapy should be discussed with the patient on the basis of a careful risk/benefit analysis. In clinical trials with Soriatane, patients were prospectively evaluated for evidence of development or change in bony abnormalities of the vertebral column. Of 380 patients treated with Soriatane, 15% had preexisting abnormalities of the spine which showed new changes or progression of preexisting findings. Changes included degenerative spurs, anterior bridging of spinal vertebrae, diffuse idiopathic skeletal hyperostosis, ligament calcification and narrowing and destruction of a cervical disc space. De novo changes (formation of small spurs) were seen in 3 patients after 1 1/2 to 2 1/2 years.

Skeletal Appendicular Results: Six of 128 patients treated with Soriatane showed abnormalities in the knees and ankles before treatment that progressed during treatment. In 5, these changes involved the formation of additional spurs or enlargement of existing spurs. The sixth patient had degenerative joint disease which worsened. No patients developed spurs de novo. Clinical complaints did not predict radiographic changes.

Lipids and Possible Cardiovascular Effects: Blood lipid determinations should be performed before Soriatane is administered and again at intervals of 1 to 2 weeks until the lipid response to the drug is established, usually within 4 to 8 weeks. In patients receiving Soriatane during clinical trials, 66% and 33% experienced an elevation in triglycerides and cholesterol, respectively. Decreased high density lipoproteins (HDL) occurred in 40% of patients. These effects of Soriatane were generally reversible upon cessation of therapy.

Patients with an increased tendency to develop hypertriglyceridemia included those with disturbances of lipid metabolism, diabetes mellitus, obesity, increased alcohol intake or a familial history of these conditions. Because of the risk of hypertriglyceridemia, serum lipids must be more closely monitored in high-risk patients and during long-term treatment.

Hypertriglyceridemia and lowered HDL may increase a patient's cardiovascular risk status. Although no causal relationship has been established, there have been postmarketing reports of acute myocardial infarction or thromboembolic events in patients on Soriatane therapy. In addition, elevation of serum triglycerides to greater than 800 mg/dL has been associated with fatal fulminant pancreatitis. Therefore, dietary modifications, reduction in Soriatane dose, or drug therapy should be employed to control significant elevations of triglycerides. If, despite these measures, hypertriglyceridemia and low HDL levels persist, the discontinuation of Soriatane should be considered.

Ophthalmologic Effects: The eyes and vision of 329 patients treated with Soriatane were examined by ophthalmologists. The findings included dry eyes (23%), irritation of eyes (9%) and brow and lash loss (5%). The following were reported in less than 5% of patients: Bell's Palsy, blepharitis and/or crusting of lids, blurred vision, conjunctivitis, corneal epithelial abnormality, cataract, decreased night vision, diplopia, itchy eyes or eyelids, nuclear cataract, pannus, papilledema, photophobia, posterior subcapsular cataract, recurrent sties and subepithelial corneal lesions.

Any patient treated with Soriatane who is experiencing visual difficulties should discontinue the drug and undergo ophthalmologic evaluation.

Pancreatitis: Lipid elevations occur in 25% to 50% of patients treated with Soriatane. Triglyceride increases sufficient to be associated with pancreatitis are much less common, although fatal fulminant pancreatitis has been reported. There have been rare reports of pancreatitis during Soriatane therapy in the absence of hypertriglyceridemia.

Pseudotumor Cerebri: Soriatane and other retinoids administered orally have been associated with cases of pseudotumor cerebri (benign intracranial hypertension). Some of these events involved concomitant use of cotretinoid and tetracyclines. However, the event seen in a single Soriatane patient was not associated with tetracycline use. Early signs and symptoms include papilledema, headache, nausea and vomiting and visual disturbances. Patients with these signs and symptoms should be examined for papilledema and, if present, should discontinue Soriatane immediately and be referred for neurological evaluation and care. Since both Soriatane and tetracyclines can cause increased intracranial pressure, their combined use is contraindicated (see CONTRAINDICATIONS).

PRECAUTIONS: Information for Patients (see Medication Guide for all patients and Patient Agreement/Informed Consent for Female Patients at end of professional labeling): Patients should be instructed to read the Medication Guide supplied as required by law when Soriatane is dispensed.

Females of reproductive potential:

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Psychiatric: Aggressive feelings and/or suicidal thoughts have been reported. These events, including self-injurious behavior, have been reported in patients taking other systemically administered retinoids, as well as in patients taking Soriatane. Since other factors may have contributed to these events, it is not known if they are related to Soriatane (see PRECAUTIONS).

Reproductive: Vulvo-vaginitis due to *Candida albicans*

Skin and Appendages: Thinning of the skin, skin fragility and scaling may occur all over the body, particularly on the palms and soles; nail fragility is frequently observed.

Clinical Trials: During clinical trials with Soriatane, 513/525 (98%) of patients reported a total of 3545 adverse events. One-hundred sixteen patients (22%) left studies prematurely, primarily because of adverse experiences involving the mucous membranes and skin. Three patients died. Two of the deaths were not drug related (pancreatic adenocarcinoma and lung cancer); the other patient died of an acute myocardial infarction, considered remotely related to drug therapy. In clinical trials, Soriatane was associated with elevations in liver function test results or triglyceride levels and hepatitis.

The tables below list by body system and frequency the adverse events reported during clinical trials of 525 patients with psoriasis.

**Table 3. Adverse Events Frequently Reported During Clinical Trials
Percent of Patients Reporting (N=525)**

BODY SYSTEM	>75%	50% to 75%	25% to 50%	10% to 25%
<i>CNS</i>				Rigors
<i>Eye Disorders</i>				Xerophthalmia
<i>Mucous Membranes</i>	Cheilitis		Rhinitis	Dry mouth Epistaxis
<i>Musculoskeletal</i>				Arthralgia Spinal hyperostosis (progression of existing lesions)
<i>Skin and Appendages</i>	Alopecia Skin peeling	Dry skin Nail disorder Pruritus		Erythematous rash Hyperesthesia Paresthesia Paronychia Skin atrophy Sticky skin

**Table 4. Adverse Events Less Frequently Reported During Clinical Trials
(Some of Which May Bear No Relationship to Therapy)
Percent of Patients Reporting (N=525)**

BODY SYSTEM	1% to 10%		<1%	
<i>Body as a Whole</i>	Anorexia Edema Fatigue Hot flashes Increased appetite	Decreased night vision/night blindness Eye abnormality Eye pain Corneal epithelial abnormality	Alcohol intolerance Dizziness Fever Influenza-like symptoms	Malaise Moniliasis Muscle weakness Weight increase
<i>Cardiovascular</i>	Flushing		Chest pain Cyanosis Increased bleeding time	Intermittent claudication Peripheral ischemia
<i>CNS (also see Psychiatric)</i>	Headache Pain		Abnormal gait Migraine Neuritis	Pseudotumor cerebri (intracranial hypertension)
<i>Eye Disorders</i>	Abnormal/ blurred vision Blepharitis Conjunctivitis/ irritation Corneal epithelial abnormality	Decreased night vision/night blindness Eye abnormality Eye pain Photophobia	Abnormal lacrimation Chalazion Conjunctival hemorrhage Corneal ulceration Diplopia Ectropion	Itchy eyes and lids Papilledema Recurrent sties Subepithelial corneal lesions
<i>Gastrointestinal</i>	Abdominal pain Diarrhea Nausea Tongue disorder		Constipation Dyspepsia Esophagitis Gastritis Gastroenteritis	Glossitis Hemorrhoids Melena Tenesmus Tongue ulceration
<i>Liver and Biliary</i>			Hepatic function abnormal Hepatitis Jaundice	
<i>Mucous Membranes</i>	Gingival bleeding Gingivitis Increased saliva	Stomatitis Thirst Ulcerative stomatitis	Altered saliva Anal disorder Gum hyperplasia	Hemorrhage Pharyngitis
<i>Musculoskeletal</i>	Arthritis Arthrosis Back pain Hypertonia Myalgia	Osteodynia Peripheral joint hyperostosis (progression of existing lesions)	Bone disorder Olecranon bursitis Spinal hyperostosis (new lesions) Tendinitis	
<i>Psychiatric</i>	Depression Insomnia Somnolence		Anxiety Dysphonia Lidido decreased Nervousness	
<i>Reproductive</i>			Atrophic vaginitis Leukorrhea	
<i>Respiratory</i>	Sinusitis		Coughing Increased sputum Laryngitis	
<i>Skin and Appendages</i>	Abnormal skin odor Abnormal hair texture Bullous eruption Cold/clammy skin Dermatitis Increased sweating Infection	Psoriasisiform rash Purpura Pyogenic reaction Granuloma Rash Seborrhea Skin fissures Skin ulceration Sunburn	Acne Breast pain Cyst Eczema Fungal infection Furunculosis Hair discoloration Herpes simplex Hyperkeratosis Hypertrichosis Hypoesthesia Impaired healing Otitis media	Otitis externa Photosensitivity *Pyogenic reaction Psooriasis aggravated Scleroderma Skin nodule Skin hypertrophy Skin disorder Skin irritation Sweat gland disorder Urticaria Verrucae
<i>Special Senses/ Other</i>	Earache Taste perversion Tinnitus		Ceruminosis Deafness Taste loss	
<i>Urinary</i>			Abnormal urine Dysuria Penis disorder	

Laboratory: Soriatane therapy induces changes in liver function tests in a significant number of patients. Elevations of AST (SGOT), ALT (SGPT) or LDH were experienced by approximately 1 in 3 patients treated with Soriatane. In most patients, elevations were slight to moderate and returned to normal either during continuation of therapy or after cessation of treatment. In patients receiving Soriatane during clinical trials, 66% and 33% experienced elevation in triglycerides and cholesterol, respectively. Decreased high density lipoproteins (HDL) occurred in 40% (see WARNINGS). Transient, usually reversible elevations of alkaline phosphatase have been observed.

Table 5 lists the laboratory abnormalities reported during clinical trials.

**Table 5. Abnormal Laboratory Test Results Reported During Clinical Trials
Percent of Patients Reporting**

BODY SYSTEM	50% to 75%	25% to 50%	10% to 25%	1% to 10%
<i>Electrolytes</i>			Increased: – Phosphorus – Potassium – Sodium Increased and decreased: – Calcium – Magnesium – Chloride	Decreased: – Phosphorus – Potassium – Sodium Increased and decreased: – Calcium – Chloride
<i>Hematologic</i>	Increased: – Reticulocytes	Decreased: – Hematocrit – Hemoglobin – WBC Increased: – Hemoglobin – Neutrophils – WBC	Increased: – Bands – Basophils – Eosinophils – Hematocrit – Hemoglobin – Lymphocytes – Monocytes Decreased: – Hemoglobin – Lymphocytes – Neutrophils – Reticulocytes Increased or decreased: – Platelets – RBC	Increased: – Bands – Basophils – Eosinophils – Hematocrit – Hemoglobin – Lymphocytes – Monocytes Decreased: – Hemoglobin – Lymphocytes – Neutrophils – Reticulocytes Increased or decreased: – Platelets – RBC
<i>Hepatic</i>	Increased: – Cholesterol – LDH – SGOT – SGPT Decreased: – HDL cholesterol	Increased: – Alkaline phosphatase – Direct bilirubin – GGTP	Increased: – Globulin – Total bilirubin – Total protein Increased and decreased: – HDL – Serum albumin	Increased: – Globulin – Total bilirubin – Total protein Increased and decreased: – HDL – Serum albumin
<i>Miscellaneous</i>	Increased: – Triglycerides	Increased: – CPK – Fasting blood sugar	Decreased: – Fasting blood sugar – High occult blood	Increased and decreased: – Iron
<i>Renal</i>			Increased: – BUN – Uric acid	Increased: – Creatinine
<i>Urinary</i>		WBC in urine	Acetonuria Hematuria RBC in urine	Glycosuria Proteinuria

OVERDOSAGE: In the event of acute overdosage, Soriatane must be withdrawn at once. Symptoms of overdose are identical to acute hypervitaminosis A, i.e. headache and vertigo. The acute oral toxicity (LD₅₀) of acitretin in both mice and rats was greater than 4000 mg/kg.

In one reported case of overdose, a 32-year-old male with Darier's disease took 21 x 25 mg capsules (525 mg single dose). He vomited several hours later but experienced no other ill effects.

All female patients of childbearing potential who have taken an overdose of Soriatane must: 1) Have a pregnancy test at the time of overdose; 2) Be counseled as per the boxed CONTRAINDICATIONS AND WARNINGS and PRECAUTIONS sections regarding birth defects and contraceptive use for at least 3 years' duration after the overdose.

DOSE AND ADMINISTRATION: There is intersubject variation in the pharmacokinetics, clinical efficacy and incidence of side effects with Soriatane. A number of the more common side effects are dose related. Individualization of dosage is required to achieve sufficient therapeutic response while minimizing side effects. Soriatane therapy should be initiated at 25 to 50 mg per day, given as a single dose with the main meal. Maintenance doses of 25 to 50 mg per day may be given dependent upon an individual patient's response to initial treatment. Relapses may be treated as outlined for initial therapy.

When Soriatane is used with phototherapy, the prescriber should decrease the phototherapy dose, dependent on the patient's individual response (see PRECAUTIONS: General).

Females who have taken Tegison (etretinate) must continue to follow the contraceptive recommendations for Tegison.

Information for Pharmacists: A Soriatane Medication Guide must be given to the patient each time Soriatane is dispensed, as required by law.

HOW SUPPLIED: Brown and white capsules, 10 mg, imprinted SORIATANE 10 mg; bottles of 30 (NDC 63032-090-25).

Brown and yellow capsules, 25 mg, imprinted SORIATANE 25 mg; bottles of 30 (NDC 63032-091-25).

Store between 15° and 25°C (59° and 77°F). Protect from light. Avoid exposure to high temperatures and humidity after the bottle is opened.

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PATIENT AGREEMENT/INFORMED CONSENT FOR FEMALE Patients:

To be completed by the patient, her parent/guardian* and signed by her prescriber.

Read each item below and initial in the space provided to show that you understand each item and agree to follow your prescriber's instructions. **Do not sign this consent and do not take Soriatane 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) _____

- I understand that there is a very high risk that my unborn baby could have severe birth defects if I am pregnant or become pregnant while taking Soriatane in any amount even for short periods of time. Birth defects have also happened in babies of women who became pregnant after stopping Soriatane treatment. INITIAL: _____
- I understand that I must not take Soriatane if I am pregnant. INITIAL: _____
- I understand that I must not become pregnant while taking Soriatane and for at least 3 years after the end of my treatment with Soriatane. INITIAL: _____
- I know that I must avoid drinks, food, and medicines, including over-the-counter products, that contain alcohol. This is extremely important, because alcohol changes Soriatane in the blood into a drug that takes even longer to leave the body. This means the risk of birth defects may last longer than 3 years if I swallow any form of alcohol during Soriatane therapy or for 2 months after I stop taking Soriatane. INITIAL: _____
- I understand that I must avoid sexual intercourse completely, or I must use 2 separate effective forms of birth control (contraception) **at the same time**. The only exception is if I have had surgery to remove the womb (a hysterectomy) or my prescriber has told me I have gone completely through menopause. INITIAL: _____

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6. I have been told by my prescriber that 2 effective forms of birth control (contraception) must be used at the same time for at least 1 month before starting Soriatane, for the entire time of Soriatane therapy, and for at least 3 years after Soriatane treatment has stopped. INITIAL: _____

7. I understand that birth control pills and injectable/implantable/insertable/topical (patch) hormonal birth control products are among the most effective forms of birth control. However, any form of birth control can fail. Therefore, I must use 2 different methods at the same time, every time I have sexual intercourse, even if 1 of the methods I choose is birth control pills, injections, or tubal ligation (tube-tying). INITIAL: _____

8. I understand that the following are considered effective forms of birth control:
 Primary: Tubal ligation (tying my tubes), partner's vasectomy, birth control pills, injectable/implantable/insertable/topical (patch) hormonal birth control products, and an IUD (intrauterine device).
 Secondary: Diaphragms, latex condoms, and cervical caps. Each must be used with a spermicide, which is a special cream or jelly that kills sperm.
 I understand that at least 1 of my 2 methods of birth control must be a primary method. INITIAL: _____

9. I will talk with my prescriber about any medicines or dietary supplements I plan to take during my Soriatane treatment because hormonal birth control methods (for example, birth control pills) may not work if I am taking certain medicines or herbal products (for example, St. John's Wort). INITIAL: _____

10. I understand that if I have taken Tegison (etretinate), I must continue to follow the birth control (contraception) recommendations for Tegison. INITIAL: _____

11. Unless I have had a hysterectomy or my prescriber says I have gone completely through menopause, I understand that I must have 2 negative pregnancy test results before I can get a prescription for Soriatane. The first pregnancy test should be done when my prescriber decides to prescribe Soriatane. The second pregnancy test should be done during the first 5 days of my menstrual period right before starting Soriatane therapy, or as instructed by my prescriber. I will then have pregnancy tests on a regular basis as instructed by my prescriber during my Soriatane therapy. INITIAL: _____

12. I understand that I should not start taking Soriatane until I am sure that I am not pregnant and have negative results from 2 pregnancy tests. INITIAL: _____

13. I have read and understand the materials my prescriber has given to me, including Soriatane Pregnancy Prevention Program. My prescriber gave me and asked me to watch the video about contraception (birth control). I was told about a confidential counseling line that I may call at Connetics for more information about birth control (1-888-500-DERM (3376)). INITIAL: _____

14. I have received information on emergency contraception (birth control). INITIAL: _____

15. I understand that I may receive a free contraceptive (birth control) counseling session and pregnancy testing. My prescriber can give me a Soriatane Patient Referral Form for this free consultation. INITIAL: _____

16. I understand that I should receive counseling from my prescriber, repeated on a regular basis, about contraception (birth control) and behaviors associated with an increased risk of pregnancy. INITIAL: _____

17. I understand that I must stop taking Soriatane right away and call my prescriber if I get pregnant, miss my menstrual period, stop using birth control, or have sexual intercourse without using my 2 birth control methods during and at least 3 years after stopping Soriatane treatment. INITIAL: _____

18. If I do become pregnant while on Soriatane or at any time within 3 years of stopping Soriatane, I understand that I should report my pregnancy to Connetics at 1-888-500-DERM (3376) or to the Food and Drug Administration (FDA) MedWatch program at 1-800-FDA-1088. The information I share will be kept confidential (private) and will help the company and the FDA evaluate the Pregnancy Prevention Program. INITIAL: _____

My prescriber has answered all my questions about Soriatane. I understand that it is my responsibility not to get pregnant during Soriatane treatment or for at least 3 years after I stop taking Soriatane. I now authorize my prescriber _____ to begin my treatment with Soriatane.

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 females of childbearing potential. I have asked the patient if she has any questions regarding her treatment with Soriatane and have answered those questions to the best of my ability.

Prescriber signature: _____ Date: _____

Medication Guide for Patients:

Read this Medication Guide carefully before you start taking Soriatane and read it each time you get more Soriatane. There may be new information.

This first information in this Guide is about birth defects and how to avoid pregnancy. **After this section there is important safety information about possible effects for any patient taking Soriatane.** ALL patients should read this entire Medication Guide carefully.

This information does not take the place of talking with your prescriber about your medical condition or treatment.

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

Soriatane can cause severe birth defects. If you are a female who can get pregnant, you should use Soriatane only if you are not pregnant now, can avoid becoming pregnant for at least 3 years, and other medicines do not work for your severe psoriasis or you cannot use other psoriasis medicines. Information about effects on unborn babies and about how to avoid pregnancy is found in the next section. "What are the important warnings and instructions for females taking Soriatane?"

What are the important warnings and instructions for females taking Soriatane?

- Before you receive your Soriatane prescription, you should have discussed and signed a Patient Information/Consent form with your prescriber.** This is to help make sure you understand the risk of birth defects and how to avoid getting pregnant. **If you did not talk to your prescriber about this and sign the form, contact your prescriber.**
- You must not take Soriatane if you are pregnant or might become pregnant during treatment or at any time for at least 3 years after you stop treatment because Soriatane can cause severe birth defects.**
- During Soriatane treatment and for 2 months after you stop Soriatane treatment, you must avoid drinks, foods, and all medicines that contain alcohol. This includes over-the-counter products that contain alcohol.** Avoiding alcohol is very important, because alcohol changes Soriatane into a drug that may take longer than 3 years to leave your body. The chance of birth defects may last longer than 3 years if you swallow any form of alcohol during Soriatane therapy and for 2 months after you stop taking Soriatane.
- You and your prescriber must be sure you are not pregnant before you start Soriatane therapy. You must have negative results from 2 pregnancy tests.** A negative result shows you are not pregnant. Because it takes a few days after pregnancy begins for a test to show that you are pregnant, the first negative test may not ensure you are not pregnant. Do not take Soriatane until you have negative results from 2 pregnancy tests.
- The first pregnancy test** will be done at the time you and your prescriber decide if Soriatane might be right for you.



CAUSES BIRTH DEFECTS

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• The **second pregnancy test** will usually be done during the first 5 days of your menstrual period, right before you plan to start Soriatane. Your prescriber may suggest another time.

• **Discuss effective birth control (contraception) with your prescriber. You must use 2 effective forms of birth control (contraception) at the same time during all of the following:**
 • for at least 1 month before beginning Soriatane treatment
 • during treatment with Soriatane
 • for at least 3 years after stopping Soriatane treatment

• **You must use 2 effective forms of birth control (contraception) at the same time even if you think you cannot become pregnant, unless 1 of the following is true for you:**
 • You had your womb (uterus) removed during an operation (a hysterectomy).
 • Your prescriber said you have gone completely through menopause (the "change of life").
 • You choose a method called "abstinence." This means that you are absolutely certain (100% sure) you will not have sex with a male partner for at least 1 month before, during, and for at least 3 years after Soriatane treatment.

• **You can get a free birth control counseling session and pregnancy testing from a prescriber or family planning expert. Your prescriber can give you a Soriatane Patient Referral Form for this free session.**

• **You must use 2 effective forms of birth control (contraception) at the same time every time you repeat Soriatane treatment. You must use birth control for at least 1 month before you start Soriatane, during treatment, and at least 3 years after you stop Soriatane treatment.**

• **The following are considered effective forms of birth control:**
Primary Forms:
 • having your tubes tied (tubal ligation)
 • partner's vasectomy
 • IUD (intrauterine device)
 • birth control pills that contain both estrogen and progestin (combination oral contraceptives)
 • hormonal birth control products that are injected, implanted, or inserted in your body
 • birth control patch

• **Secondary Forms (use with a Primary Form):**
 • diaphragms with spermicide
 • latex condoms with spermicide
 • cervical caps with spermicide

At least 1 of your 2 methods of birth control must be a primary form.

• **If you have sex at any time without using 2 effective forms of birth control (contraception) at the same time, or if you get pregnant or miss your period, stop using Soriatane and call your prescriber right away.**

• **Consider "Emergency Contraception" (EC) if you have sex with a male without correctly using 2 effective forms of birth control (contraception) at the same time.** EC is also called "emergency birth control" or the "morning after" pill. Contact your prescriber as soon as possible if you have sex without using 2 effective forms of birth control (contraception) at the same time, because EC works best if it is used within 1 or 2 days after sex. EC is not a replacement for your usual 2 effective forms of birth control (contraception) because it is not as effective as regular birth control methods.

You can get EC from private doctors or nurse practitioners, women's health centers, or hospital emergency rooms. You can get the name and phone number of EC providers nearest you by calling the free Emergency Contraception Hotline at 1-888-NOT-2-LATE (1-888-668-2528).

• **Stop taking Soriatane right away and contact your prescriber if you get pregnant while taking Soriatane or at any time for at least 3 years after treatment has stopped. You need to discuss the possible effects on the unborn baby with your prescriber.**

• **If you do become pregnant while taking Soriatane or at any time for at least 3 years after stopping Soriatane, you should report your pregnancy to Connetics at 1-888-500-DERM (3376) or directly to the Food and Drug Administration (FDA) MedWatch program (1-800-FDA-1088).** Your name will be kept in private (confidential). The information you share will help the FDA and the manufacturer evaluate the Pregnancy Prevention Program for Soriatane.

• **Do not take Soriatane if you are breast feeding.** Soriatane can pass into your milk and may harm your baby. You will need to choose either to breast feed or take Soriatane, but not both.

What should males know before taking Soriatane?

Small amounts of Soriatane are found in the semen of males taking Soriatane. Based upon available information, it appears that these small amounts of Soriatane in semen pose little, if any, risk to an unborn child while a male patient is taking the drug or after it is discontinued. Discuss any concerns you have about this with your prescriber.

All patients should read the rest of this Medication Guide.

What is Soriatane?

Soriatane is a medicine used to treat severe forms of psoriasis in adults. Psoriasis is a skin disease that causes cells in the outer layer of the skin to grow faster than normal and pile up on the skin's surface. In the most common type of psoriasis, the skin becomes inflamed and produces red, thickened areas, often with silvery scales. **Because Soriatane can have serious side effects,** you should talk with your prescriber about whether Soriatane's possible benefits outweigh its possible risks.

Soriatane may not work right away. You may have to wait 2 to 3 months before you get the full benefit of Soriatane. Psoriasis gets worse for some patients when they first start Soriatane treatment. Soriatane has not been studied in children.

Who should not take Soriatane?

- **Do NOT take Soriatane if you can get pregnant.** Do not take Soriatane if you are pregnant or might get pregnant during Soriatane treatment or at any time for **at least 3 years** after you stop Soriatane treatment (see "What are the important warnings and instructions for females taking Soriatane?").
- **Do NOT take Soriatane if you are breast feeding.** Soriatane can pass into your milk and may harm your baby. You will need to choose either to breast feed or take Soriatane, but not both.
- **Do NOT take Soriatane if you have severe liver or kidney disease.**
- **Do NOT take Soriatane if you have repeated high blood lipids** (fat in the blood).
- **Do NOT take Soriatane if you take these medicines:**
 • methotrexate
 • tetracyclines
 • the use of these medicines with Soriatane may cause **serious** side effects.

• **Do NOT take Soriatane if you are allergic to acitretin,** the active ingredient in Soriatane, or to any of the other ingredients (see the end of this Medication Guide for a list of all the ingredients in Soriatane), or to any similar drugs (ask your prescriber or pharmacist whether any drugs you are allergic to are related to Soriatane).

Tell your prescriber if you have or ever had:
 • diabetes or high blood sugar
 • liver problems
 • kidney problems
 • high cholesterol or high triglycerides (fat in the blood)
 • heart disease
 • depression
 • alcoholism
 • an allergic reaction to a medication

Your prescriber needs this information to decide if Soriatane is right for you and to know what dose is best for you.

Tell your prescriber about all the medicines you take, including prescription and non-prescription medicines, vitamins, and herbal supplements. Some medicines can cause **serious side effects** if taken while you also take Soriatane. Some medicines may affect how Soriatane works, or Soriatane may affect how your other medicines work. **Be especially sure to tell your prescriber if you are taking the following medicines:**

- methotrexate
- tetracyclines
- phenytoin
- vitamin A supplements
- progestin-only oral contraceptives ("minipills")
- Tegison® or Tigason (etretinate).
- Tell your prescriber if you have ever taken this medicine in the past.
- St. John's Wort herbal supplement

Tell your prescriber if you are getting phototherapy treatment. Your doses of phototherapy may need to be changed to prevent a burn.

How should I take Soriatane?

- Take Soriatane with food.
- Be sure to take your medicine as prescribed by your prescriber. The dose of Soriatane varies from patient to patient. The number of capsules you must take is chosen specially for you by your prescriber. This dose may change during treatment.
- If you miss a dose, do not double the next dose. Skip the missed dose and resume your normal schedule.

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• If you take too much Soriatane (overdose), call your local poison control center or emergency room. You should have **blood tests** for liver function, cholesterol and triglycerides before starting treatment and during treatment to check your body's response to Soriatane. Your prescriber may also do other tests.

Once you stop taking Soriatane, your psoriasis may return. *Do not treat* this new psoriasis with leftover Soriatane. It is important to see your prescriber again for treatment recommendations because your situation may have changed.

What should I avoid while taking Soriatane?



MEDICATION GUIDE FOR PATIENTS

SORIATANE[®]

[soh-RYE-uh-tane]

(acitretin)

CAPSULES

Read this Medication Guide carefully before you start taking Soriatane and read it each time you get more Soriatane. There may be new information.

The first information in this Guide is about birth defects and how to avoid pregnancy. **After this section there is important safety information about possible effects for any patient taking Soriatane.** ALL patients should read this entire Medication Guide carefully.

This information does not take the place of talking with your prescriber about your medical condition or treatment.

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

Soriatane can cause severe birth defects. If you are a female who can get pregnant, you should use Soriatane only if you are not pregnant now, can avoid becoming pregnant for at least 3 years, and other medicines do not work for your severe psoriasis or you cannot use other psoriasis medicines. Information about effects on unborn babies and about how to avoid pregnancy is found in the next section: "What are the important warnings and instructions for females taking Soriatane?".

CAUSES BIRTH DEFECTS



DO NOT GET PREGNANT

What are the important warnings and instructions for females taking Soriatane?

- **Before you receive your Soriatane prescription, you should have discussed and signed a Patient Information/Consent form with your prescriber. This is to help make sure you understand the risk of birth defects and how to avoid getting pregnant. If you did not talk to your prescriber about this and sign the form, contact your prescriber.**
- **You must not take Soriatane if you are pregnant or might become pregnant during treatment or at any time for at least 3 years after you stop treatment because Soriatane can cause severe birth defects.**
- **During Soriatane treatment and for 2 months after you stop Soriatane treatment, you must avoid drinks, foods, and all medicines that contain alcohol. This includes over-the-counter products that contain alcohol.** Avoiding alcohol is very important, because alcohol changes Soriatane into a drug that may take longer than 3 years to leave your body. The chance of birth defects may last longer than 3 years if you swallow any form of alcohol during Soriatane therapy and for 2 months after you stop taking Soriatane.

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- **You and your prescriber must be sure you are not pregnant before you start Soriatane therapy. You must have negative results from 2 pregnancy tests.** A negative result shows you are not pregnant. Because it takes a few days after pregnancy begins for a test to show that you are pregnant, the first negative test may not ensure you are not pregnant. Do not take Soriatane until you have negative results from 2 pregnancy tests.
- The **first pregnancy test** will be done at the time you and your prescriber decide if Soriatane might be right for you.
- The **second pregnancy test** will usually be done during the first 5 days of your menstrual period, right before you plan to start Soriatane. Your prescriber may suggest another time.
- **Discuss effective birth control (contraception) with your prescriber. You must use 2 effective forms of birth control (contraception) at the same time during all of the following:**
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 - Your prescriber said you have gone completely through menopause (the "change of life").
 - You choose a method called "abstinence". This means that you are absolutely certain (100% sure) you will not have sex with a male partner for at least 1 month before, during, and for at least 3 years after Soriatane treatment.
- **You can get a free birth control counseling session and pregnancy testing from a prescriber or family planning expert. Your prescriber can give you a Soriatane Patient Referral Form for this free session.**
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- **Stop taking Soriatane right away and contact your prescriber if you get pregnant while taking Soriatane or at any time for at least 3 years after treatment has stopped. You need to discuss the possible effects on the unborn baby with your prescriber.**
- **If you do become pregnant while taking Soriatane or at any time for at least 3 years after stopping Soriatane, you should report your pregnancy to Connetics at 1-888-500-DERM (3376) or directly to the Food and Drug Administration (FDA) MedWatch Program (1-800-FDA-1088).** Your name will be kept in private (confidential). The information you share will help the FDA and the manufacturer evaluate the Pregnancy Prevention Program for Soriatane.
- **Do not take Soriatane if you are breast feeding.** Soriatane can pass into your milk and may harm your baby. You will need to choose either to breast feed or take Soriatane, but not both.

What should males know before taking Soriatane?

Small amounts of Soriatane are found in the semen of males taking Soriatane. Based upon available information, it appears that these small amounts of Soriatane in semen pose little, if any, risk to an unborn child while a male patient is taking the drug or after it is discontinued. Discuss any concerns you have about this with your prescriber.

All patients should read the rest of this Medication Guide.

What is Soriatane?

Soriatane is a medicine used to treat severe forms of psoriasis in adults. Psoriasis is a skin disease that causes cells in the outer layer of the skin to grow faster than normal and pile up on the skin's surface. In the most common type of psoriasis, the skin becomes inflamed and produces red, thickened areas, often with silvery scales. **Because Soriatane can have serious side effects,** you should talk with your prescriber about whether Soriatane's possible benefits outweigh its possible risks.

Soriatane may not work right away. You may have to wait 2 to 3 months before you get the full benefit of Soriatane. Psoriasis gets worse for some patients when they first start Soriatane treatment.

Soriatane has not been studied in children.

Who should not take Soriatane?

- **Do NOT take Soriatane if you can get pregnant.** Do not take Soriatane if you are pregnant or might get pregnant during Soriatane treatment or at any time for **at least 3 years** after you stop Soriatane treatment (see "What are the important warnings and instructions for females taking Soriatane?").
- **Do NOT take Soriatane if you are breast feeding.** Soriatane can pass into your milk and may harm your baby. You will need to choose either to breast feed or take Soriatane, but not both.
- **Do NOT take Soriatane if you have severe liver or kidney disease.**
- **Do NOT take Soriatane if you have repeated high blood lipids (fat in the blood).**
- **Do NOT take Soriatane if you take these medicines:**
 - methotrexate
 - tetracyclinesThe use of these medicines with Soriatane may cause **serious** side effects.
- **Do NOT take Soriatane if you are allergic to acitretin,** the active ingredient in Soriatane, to any of the other ingredients (see the end of this Medication Guide for a list of all the ingredients in Soriatane), or to any similar drugs (ask your prescriber or pharmacist whether any drugs you are allergic to are related to Soriatane).

MEDICATION GUIDE
SORIATANE[®]
(acitretin) CAPSULES
PHARMACIST: PROVIDE A MEDICATION GUIDE WITH EACH PRESCRIPTION.



27898425



MEDICATION GUIDE
SORIATANE[®]
(acitretin) CAPSULES
PHARMACIST: PROVIDE A MEDICATION GUIDE WITH EACH PRESCRIPTION.



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For current labeling information, please visit <https://www.fda.gov/drugsatfda>

SORIATANE® (acitretin)

Tell your prescriber if you have or ever had:

- diabetes or high blood sugar
- liver problems
- kidney problems
- high cholesterol or high triglycerides (fat in the blood)
- heart disease
- depression
- alcoholism
- an allergic reaction to a medication

Your prescriber needs this information to decide if Soriatane is right for you and to know what dose is best for you.

Tell your prescriber about all the medicines you take, including prescription and non-prescription medicines, vitamins, and herbal supplements. Some medicines can cause **serious side effects** if taken while you also take Soriatane. Some medicines may affect how Soriatane works, or Soriatane may affect how your other medicines work. **Be especially sure to tell your prescriber if you are taking the following medicines:**

- methotrexate
- tetracyclines
- phenytoin
- vitamin A supplements
- progestin-only oral contraceptives (“minipills”)
- Tegison® or Tigason (etretinate). Tell your prescriber if you have ever taken this medicine in the past.
- St. John’s Wort herbal supplement

Tell your prescriber if you are getting phototherapy treatment. Your doses of phototherapy may need to be changed to prevent a burn.

How should I take Soriatane?

- Take Soriatane with food.

• Be sure to take your medicine as prescribed by your prescriber. The dose of Soriatane varies from patient to patient. The number of capsules you must take is chosen specially for you by your prescriber. This dose may change during treatment.

• If you miss a dose, do not double the next dose. Skip the missed dose and resume your normal schedule.

• If you take too much Soriatane (overdose), call your local poison control center or emergency room.

You should have **blood tests** for liver function, cholesterol and triglycerides before starting treatment and during treatment to check your body’s response to Soriatane. Your prescriber may also do other tests.

Once you stop taking Soriatane, your psoriasis may return. Do *not* treat this new psoriasis with leftover Soriatane. It is important to see your prescriber again for treatment recommendations because your situation may have changed.

What should I avoid while taking Soriatane?

• **Avoid pregnancy.** See “What is the most important information I should know about Soriatane?”, and “What are the important warnings and instructions for females taking Soriatane?”.

• **Avoid breast feeding.** See “What are the important warnings and instructions for females taking Soriatane?”.

• **Avoid alcohol.** Females must avoid drinks, foods, medicines, and over-the-counter products that contain alcohol. The risk of birth defects may continue for longer than 3 years if you swallow any form of alcohol during Soriatane treatment and for 2 months after stopping Soriatane (see “What are the important warnings and instructions for females taking Soriatane?”).

• **Avoid giving blood. Do not donate blood** while you are taking Soriatane and **for at least 3 years after stopping** Soriatane treatment. Soriatane in your blood can harm an unborn baby if your blood is given to a pregnant woman. Soriatane does not affect your ability to **receive** a blood transfusion.

SORIATANE® (acitretin)

• **Avoid progestin-only birth control pills (“minipills”).** This type of birth control pill may not work while you take Soriatane. Ask your prescriber if you are not sure what type of pills you are using.

• **Avoid night driving if you develop any sudden vision problems.** Stop taking Soriatane and call your prescriber if this occurs (see “Serious side effects”).

• **Avoid non-medical ultraviolet (UV) light.** Soriatane can make your skin more sensitive to UV light. Do not use sunlamps, and avoid sunlight as much as possible. If you are taking light treatment (phototherapy), your prescriber may need to change your light dosages to avoid burns.

• **Avoid dietary supplements containing vitamin A.** Soriatane is related to vitamin A. Therefore, do not take supplements containing vitamin A, because they may add to the unwanted effects of Soriatane. Check with your prescriber or pharmacist if you have any questions about vitamin supplements.

• **DO NOT SHARE Soriatane with anyone else, even if they have the same symptoms.** Your medicine may harm them or their unborn child.

What are the possible side effects of Soriatane?

• **Soriatane can cause birth defects.** See “What is the most important information I should know about Soriatane?” and “What are the important warnings and instructions for females taking Soriatane?”

• Psoriasis gets worse for some patients when they first start Soriatane treatment. Some patients have more redness or itching. If this happens, tell your prescriber. These symptoms usually get better as treatment continues, but your prescriber may need to change the amount of your medicine.

Serious side effects. These do not happen often, but they can lead to permanent harm, or rarely, to death. Stop taking Soriatane and call your prescriber right away if you get the following signs or symptoms:

• **Bad headaches, nausea, vomiting, blurred vision.** These symptoms can be signs of increased brain pressure that can lead to blindness or even death.

• **Decreased vision in the dark** (night blindness). Since this can start suddenly, you should be very careful when driving at night. This problem usually goes away when Soriatane treatment stops. If you develop **any** vision problems or eye pain stop taking Soriatane and call your prescriber.

• **Depression.** There have been some reports of patients developing mental problems including a depressed mood, aggressive feelings, or thoughts of ending their own life (suicide). These events, including suicidal behavior, have been reported in patients taking other drugs similar to Soriatane as well as patients taking Soriatane. Since other things may have contributed to these problems, it is not known if they are related to Soriatane. It is very important to stop taking Soriatane and call your prescriber right away if you develop such problems.

• **Yellowing of your skin or the whites of your eyes, nausea and vomiting, loss of appetite, or dark urine.** These can be signs of serious liver damage.

• **Aches or pains in your bones, joints, muscles, or back; trouble moving; loss of feeling in your hands or feet.** These can be signs of abnormal changes to your bones or muscles.

• **Frequent urination, great thirst or hunger.** Soriatane can affect blood sugar control, even if you do not already have diabetes. These are some of the signs of high blood sugar.

• **Shortness of breath, dizziness, nausea, chest pain, weakness, trouble speaking, or swelling of a leg. These may be signs of a heart attack, blood clots, or stroke.** Soriatane can cause serious changes in blood fats (lipids). It is possible for these changes to cause blood vessel blockages that lead to heart attacks, strokes, or blood clots.

Common side effects. If you develop any of these side effects or any unusual reaction, check with your prescriber to find out if you need to change the amount of Soriatane you take. These side effects usually get better if the Soriatane dose is reduced or Soriatane is stopped.

SORIATANE® (acitretin)

• **Chapped lips; peeling fingertips, palms, and soles; itching; scaly skin all over; weak nails; sticky or fragile (weak) skin; runny or dry nose, or nose-bleeds.** Your prescriber or pharmacist can recommend a lotion or cream to help treat drying or chapping.

• **Dry mouth**

• **Joint pain**

• **Tight muscles**

• **Hair loss.** Most patients have some hair loss, but this condition varies among patients. No one can tell if you will lose hair, how much hair you may lose or if and when it may grow back.

• **Dry eyes.** Soriatane may dry your eyes. Wearing **contact lenses** may be uncomfortable during and after treatment with Soriatane because of the dry feeling in your eyes. If this happens, remove your contact lenses and call your prescriber. Also read the section about vision under “Serious side effects”.

• **Rise in blood fats (lipids).** Soriatane can cause your blood fats (lipids) to rise. Most of the time this is not serious. But sometimes the increase can become a serious problem (see information under “Serious side effects”). You should have blood tests as directed by your prescriber.

These are not all the possible side effects of Soriatane. For more information, ask your prescriber or pharmacist.

How should I store Soriatane?

Keep Soriatane away from sunlight, high temperature, and humidity. **Keep Soriatane away from children.**

What are the ingredients in Soriatane?

Active ingredient: acitretin

Inactive ingredients: microcrystalline cellulose, sodium ascorbate, gelatin, black monogramming ink and maltodextrin (a mixture of polysaccharides). Gelatin capsule shells contain gelatin, iron oxide (yellow, black, and red), and titanium dioxide. They may also contain benzyl alcohol, carboxymethylcellulose sodium, edetate calcium disodium.

General information about the safe and effective use of Soriatane

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use Soriatane for a condition for which it was not prescribed. Do not give Soriatane to other people, even if they have the same symptoms that you have.

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

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

Tegison® is a registered trademark of Hoffmann-La Roche Inc.

Rx only



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For current labeling information, please visit <https://www.fda.gov/drugsatfda>

NDC 63032-091-25



SORIATANE[®]
(acitretin)

25 mg

R_x only
30 Capsules



CAUSES BIRTH
DEFECTS



DO NOT GET
PREGNANT

Each capsule contains 25 mg acitretin.

USUAL DOSAGE: See Package Insert.

Manufactured for

Connetics Corporation, Palo Alto, CA 94303
USA

AW No.: AW-0259



63032-091-25

Store at 15°–25°C (59°–77°F). Protect from light.
Avoid exposing to high temperatures and humidity
after the bottle is opened.
The interlocking C design is a trademark, and
Connetics and Soriatane are registered trademarks,
of Connetics Corporation.
**Pharmacist: Provide a Medication Guide
with each prescription.**
Do not cover lot and expiry.

LOT

EXP.

27898726

LAYOUT AT 400%

27898782

EXP. LOT


DO NOT COVER LOT AND EXPIRY.

PHARMACIST: PROVIDE A MEDICATION GUIDE WITH EACH PRESCRIPTION.

AVOID EXPOSING TO HIGH TEMPERATURES AND HUMIDITY AFTER THE BOTTLE IS OPENED. The interlocking C design is a trademark, and Connetics and Soriatane are registered trademarks, of Connetics Corporation.

STORE AT 15° TO 25° C (59° TO 77° F).
PROTECT FROM LIGHT.

NDC 63032-090-25


 **connetics**[®]

SORIATANE[®]
(acitretin)


10mg

R only.

30 Capsules



CAUSES BIRTH DEFECTS




DO NOT GET PREGNANT

Each capsule contains 10 mg acitretin.
USUAL DOSAGE: See Package Insert.

Manufactured for
Connetics Corporation
Palo Alto, CA 94303
USA

AW No.: AM-0257-11



63032-090-25

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For current labeling information, please visit <https://www.fda.gov/drugsatfda>

Soriatane 25mg Capsule

Top: SORIATANE® 25mg Bottom: SORIATANE® 25mg



Black Cyan Magenta Yellow

Soriatane 25mg Capsule

Top: SORIATANE® 25mg Bottom: SORIATANE® 25mg



Black Cyan Magenta Yellow

Soriatane 25mg Capsule

Top: SORIATANE® 25mg Bottom: SORIATANE® 25mg



Black Cyan Magenta Yellow

This label may not be the latest approved by FDA.
For current labeling information, please visit <https://www.fda.gov/drugsatfda>

Soriatane 10mg Capsule

Top: SORIATANE® 10mg Bottom: SORIATANE® 10mg



Black Cyan Magenta Yellow

Soriatane 10mg Capsule

Top: SORIATANE® 10mg Bottom: SORIATANE® 10mg



Black Cyan Magenta Yellow

Soriatane 10mg Capsule

Top: SORIATANE® 10mg Bottom: SORIATANE® 10mg



Black Cyan Magenta Yellow

This label may not be the latest approved by FDA.
For current labeling information, please visit <https://www.fda.gov/drugsatfda>

NDC 63032-091-01



SORIATANE[®]
(acitretin)

25 mg

**PROFESSIONAL
COURTESY
PACKAGE**

R_x only
7 Capsules



CAUSES BIRTH
DEFECTS



DO NOT GET
PREGNANT

Each capsule contains 25 mg acitretin.

USUAL DOSAGE: See Package Insert.

Manufactured for

Connetics Corporation, Palo Alto, CA 94303
USA

AW No.: AW-0258



63032-091-01

Store at 15°–25°C (59°–77°F). Protect from light.
Avoid exposing to high temperatures and humidity
after the bottle is opened.
The interlocking C design is a trademark, and
Connetics and Soriatane are registered trademarks,
of Connetics Corporation.
**Attention Pharmacist: Each patient is required
to receive the enclosed Medication Guide.
Do not cover lot and expiry.**

LOT

EXP.

27898727

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For current labeling information, please visit <https://www.fda.gov/drugsatfda>

NDC 63032-091-25



SORIATANE®
(acitretin)

25 mg

R_x only
30 Capsules



CAUSES BIRTH
DEFECTS



DO NOT GET
PREGNANT

Each capsule contains 25 mg acitretin.

USUAL DOSAGE: See Package Insert.

Manufactured for

Connetics Corporation, Palo Alto, CA 94303
USA

AW No.: AW-0259



63032-091-25

Store at 15°–25°C (59°–77°F). Protect from light.
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of Connetics Corporation.
**Pharmacist: Provide a Medication Guide
with each prescription.**
Do not cover lot and expiry.

LOT

EXP.

27898726