

**HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use Depo-Provera Contraceptive Injection (Depo-Provera CI) safely and effectively. See full prescribing information for Depo-Provera Contraceptive Injection.

DEPO-PROVERA CI (medroxyprogesterone acetate) injectable suspension, for intramuscular use

Initial U.S. Approval: 1959

**WARNING: LOSS OF BONE MINERAL DENSITY**  
*See full prescribing information for complete boxed warning.*

- Women who use Depo-Provera Contraceptive Injection may lose significant bone mineral density. Bone loss is greater with increasing duration of use and may not be completely reversible. (5.1)
- It is unknown if use of Depo-Provera Contraceptive Injection during adolescence or early adulthood, a critical period of bone accretion, will reduce peak bone mass and increase the risk for osteoporotic fracture in later life. (5.1)
- Depo-Provera Contraceptive Injection should not be used as a long-term birth control method (i.e., longer than 2 years) unless other birth control methods are considered inadequate. (5.1)

-----RECENT MAJOR CHANGES-----  
Warnings and Precautions; Loss of Bone Mineral Density (5.1) 10/2010

-----INDICATIONS AND USAGE-----  
Depo-Provera CI is a progestin injectable contraceptive indicated only for the prevention of pregnancy. (1)

-----DOSAGE AND ADMINISTRATION-----  
The recommended dose is 150 mg of Depo-Provera CI every 3 months (13 weeks) administered by deep, IM injection in the gluteal or deltoid muscle. (2.1)

-----DOSAGE FORMS AND STRENGTHS-----  
• Vials containing sterile aqueous suspension: 150 mg per mL (3)  
• Prefilled syringes: are available packaged with 22-gauge x 1 1/2 inch BD SafetyGlide Needles (3)

-----CONTRAINDICATIONS-----  
• Known or suspected pregnancy or as a diagnostic test for pregnancy. (4)  
• Active thrombophlebitis, or current or past history of thromboembolic disorders, or cerebral vascular disease. (4)

**FULL PRESCRIBING INFORMATION: CONTENTS\***

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- Known or suspected malignancy of breast. (4)
- Known hypersensitivity to Depo-Provera CI (medroxyprogesterone acetate or any of its other ingredients). (4)
- Significant liver disease. (4)
- Undiagnosed vaginal bleeding. (4)

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

- Thromboembolic Disorders: Discontinue Depo-Provera CI in patients who develop thrombosis (5.2)
- Cancer Risks: Monitor women with breast nodules or a strong family history of breast cancer carefully. (5.3)
- Ectopic Pregnancy: Consider ectopic pregnancy if a woman using Depo-Provera CI becomes pregnant or complains of severe abdominal pain. (5.4)
- Anaphylaxis and Anaphylactoid Reactions: Provide emergency medical treatment. (5.5)
- Liver Function: Discontinue Depo-Provera CI if jaundice or disturbances of liver function develop. (5.6)
- Carbohydrate Metabolism: Monitor diabetic patients carefully. (5.11)

-----ADVERSE REACTIONS-----

Most common adverse reactions (incidence >5%) are: menstrual irregularities (bleeding or spotting) 57% at 12 months, 32% at 24 months, abdominal pain/discomfort 11%, weight gain > 10 lbs at 24 months 38%, dizziness 6%, headache 17%, nervousness 11%, decreased libido 6%. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Pfizer Inc. at 1-800-438-1985 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

-----DRUG INTERACTIONS-----

Drugs or herbal products that induce certain enzymes, including CYP3A4, may decrease the effectiveness of contraceptive drug products. Counsel patients to use a back-up method or alternative method of contraception when enzyme inducers are used with Depo-Provera CI. (7.1)

-----USE IN SPECIFIC POPULATIONS-----

- Nursing Mothers: Detectable amounts of drug have been identified in the milk of mothers receiving Depo-Provera CI. (8.2)
- Pediatric: Depo-Provera CI is not indicated before menarche. (8.3)

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

Revised: 10/2010

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## Full Prescribing Information

### **WARNING: LOSS OF BONE MINERAL DENSITY**

**Women who use Depo-Provera Contraceptive Injection may lose significant bone mineral density. Bone loss is greater with increasing duration of use and may not be completely reversible.**

**It is unknown if use of Depo-Provera Contraceptive Injection during adolescence or early adulthood, a critical period of bone accretion, will reduce peak bone mass and increase the risk for osteoporotic fracture in later life.**

**Depo-Provera Contraceptive Injection should not be used as a long-term birth control method (i.e., longer than 2 years) unless other birth control methods are considered inadequate. (See *Warnings and Precautions (5.1)*).**

## **1 INDICATIONS AND USAGE**

Depo-Provera CI is indicated only for the prevention of pregnancy. The loss of bone mineral density (BMD) in women of all ages and the impact on peak bone mass in adolescents should be considered, along with the decrease in BMD that occurs during pregnancy and/or lactation, in the risk/benefit assessment for women who use Depo-Provera CI long-term [see *Warnings and Precautions (5.1)*].

## **2 DOSAGE AND ADMINISTRATION**

### **2.1 Prevention of Pregnancy**

Both the 1 mL vial and the 1 mL prefilled syringe of Depo-Provera CI should be vigorously shaken just before use to ensure that the dose being administered represents a uniform suspension.

The recommended dose is 150 mg of Depo-Provera CI every 3 months (13 weeks) administered by deep IM injection in the gluteal or deltoid muscle. Depo-Provera CI should not be used as a long-term birth control method (i.e. longer than 2 years) unless other birth control methods are considered inadequate. Dosage does not need to be adjusted for body weight [See *Clinical Studies (14.1)*].

To ensure the patient is not pregnant at the time of the first injection, the first injection should be given ONLY during the first 5 days of a normal menstrual period; ONLY within the first 5-days postpartum if not breast-feeding; and if exclusively breast-feeding, ONLY at the sixth postpartum week. If the time interval between injections is greater than 13 weeks, the physician should determine that the patient is not pregnant before administering the drug. The efficacy of Depo-Provera CI depends on adherence to the dosage schedule of administration.

### **2.2 Switching from other Methods of Contraception**

When switching from other contraceptive methods, Depo-Provera CI should be given in a manner that ensures continuous contraceptive coverage based upon the mechanism of action of both methods, (e.g., patients switching from oral contraceptives should have their first injection of Depo-Provera CI on the day after the last active tablet or at the latest, on the day following the final inactive tablet).

## **3 DOSAGE FORMS AND STRENGTHS**

Sterile Aqueous suspension: 150mg/ml

Prefilled syringes are available packaged with 22-gauge x 1 1/2 inch BD SafetyGlide™ Needles.

## 4 CONTRAINDICATIONS

The use of Depo-Provera CI is contraindicated in the following conditions:

- Known or suspected pregnancy or as a diagnostic test for pregnancy.
- Active thrombophlebitis, or current or past history of thromboembolic disorders, or cerebral vascular disease [see *Warnings and Precautions (5.2)*].
- Known or suspected malignancy of breast [see *Warnings and Precautions (5.3)*].
- Known hypersensitivity to Depo-Provera CI (medroxyprogesterone acetate) or any of its other ingredients [see *Warnings and Precautions (5.5)*].
- Significant liver disease [see *Warnings and Precautions (5.6)*].
- Undiagnosed vaginal bleeding [see *Warnings and Precautions (5.9)*].

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Loss of Bone Mineral Density

Use of Depo-Provera CI reduces serum estrogen levels and is associated with significant loss of bone mineral density (BMD). This loss of BMD is of particular concern during adolescence and early adulthood, a critical period of bone accretion. It is unknown if use of Depo-Provera CI by younger women will reduce peak bone mass and increase the risk for osteoporotic fracture in later life.

After discontinuing Depo-Provera CI in adolescents, mean BMD loss at total hip and femoral neck did not fully recover by 60 months (240 weeks) post-treatment [see *Clinical Studies (14.3)*]. Similarly, in adults, there was only partial recovery of mean BMD at total hip, femoral neck and lumbar spine towards baseline by 24 months post-treatment. [See *Clinical Studies (14.2)*.]

Depo-Provera CI should not be used as a long-term birth control method (i.e., longer than 2 years) unless other birth control methods are considered inadequate. BMD should be evaluated when a woman needs to continue to use Depo-Provera CI long-term. In adolescents, interpretation of BMD results should take into account patient age and skeletal maturity.

Other birth control methods should be considered in the risk/benefit analysis for the use of Depo-Provera CI in women with osteoporosis risk factors. Depo-Provera CI can pose an additional risk in patients with risk factors for osteoporosis (e.g., metabolic bone disease, chronic alcohol and/or tobacco use, anorexia nervosa, strong family history of osteoporosis or chronic use of drugs that can reduce bone mass such as anticonvulsants or corticosteroids). Although there are no studies addressing whether calcium and Vitamin D may lessen BMD loss in women using Depo-Provera CI, all patients should have adequate calcium and Vitamin D intake.

### 5.2 Thromboembolic Disorders

There have been reports of serious thrombotic events in women using Depo-Provera CI (150 mg). However, Depo-Provera CI has not been causally associated with the induction of thrombotic or thromboembolic disorders. Any patient who develops thrombosis while undergoing therapy with Depo-Provera CI should discontinue treatment unless she has no other acceptable options for birth control.

Do not readminister Depo-Provera CI pending examination if there is a sudden partial or complete loss of vision or if there is a sudden onset of proptosis, diplopia, or migraine. Do not readminister if examination reveals papilledema or retinal vascular lesions.

### 5.3 Cancer Risks

#### *Breast Cancer*

Women who currently have or have had breast cancer should not use hormone contraceptives, including

Depo-Provera CI, because breast cancer may be hormonally sensitive. Women with a strong family history of breast cancer or who have breast nodules should be monitored with particular care.

A pooled analysis from two case-control studies, the World Health Organization Study and the New Zealand Study, reported the relative risk (RR) of breast cancer for women who had ever used Depo-Provera CI as 1.1 (95% confidence interval [CI] 0.97 to 1.4). Overall, there was no increase in risk with increasing duration of use of Depo-Provera CI. The RR of breast cancer for women of all ages who had initiated use of Depo-Provera CI within the previous 5 years was estimated to be 2.0 (95% CI 1.5 to 2.8).

The World Health Organization Study, a component of the pooled analysis described above, showed an increased RR of 2.19 (95% CI 1.23 to 3.89) of breast cancer associated with use of Depo-Provera CI in women whose first exposure to drug was within the previous 4 years and who were under 35 years of age. However, the overall RR for ever-users of Depo-Provera CI was 1.2 (95% CI 0.96 to 1.52).

The National Cancer Institute reports an average annual incidence rate for breast cancer for US women, all races, age 15 to 34 years of 8.7 per 100,000. A RR of 2.19, thus, increases the possible risk from 8.7 to 19.0 cases per 100,000 women.

#### *Cervical Cancer*

A statistically nonsignificant increase in RR estimates of invasive squamous-cell cervical cancer has been associated with the use of Depo-Provera CI in women who were first exposed before the age of 35 years (RR 1.22 to 1.28 and 95% CI 0.93 to 1.70). The overall, nonsignificant relative rate of invasive squamous-cell cervical cancer in women who ever used DEPO-PROVERA CI was estimated to be 1.11 (95% CI 0.96 to 1.29). No trends in risk with duration of use or times since initial or most recent exposure were observed.

#### *Other Cancers*

Long-term case-controlled surveillance of users of Depo-Provera CI found no overall increased risk of ovarian or liver cancer.

### **5.4 Ectopic Pregnancy**

Be alert to the possibility of an ectopic pregnancy among women using Depo-Provera CI who become pregnant or complain of severe abdominal pain.

### **5.5 Anaphylaxis and Anaphylactoid Reaction**

Anaphylaxis and anaphylactoid reaction have been reported with the use of Depo-Provera CI. Institute emergency medical treatment if an anaphylactic reaction occurs.

### **5.6 Liver Function**

Discontinue Depo-Provera CI use if jaundice or acute or chronic disturbances of liver function develop. Do not resume use until markers of liver function return to normal and Depo-Provera CI causation has been excluded.

### **5.7 Convulsions**

There have been a few reported cases of convulsions in patients who were treated with Depo-Provera CI. Association with drug use or pre-existing conditions is not clear.

## **5.8 Depression**

Monitor patients who have a history of depression and do not readminister Depo-Provera CI if depression recurs.

## **5.9 Bleeding Irregularities**

Most women using Depo-Provera CI experience disruption of menstrual bleeding patterns. Altered menstrual bleeding patterns include amenorrhea, irregular or unpredictable bleeding or spotting, prolonged spotting or bleeding, and heavy bleeding. Rule out the possibility of organic pathology if abnormal bleeding persists or is severe, and institute appropriate treatment.

As women continue using Depo-Provera CI, fewer experience irregular bleeding and more experience amenorrhea. In clinical studies of Depo-Provera CI, by month 12 amenorrhea was reported by 55% of women, and by month 24, amenorrhea was reported by 68% of women using Depo-Provera CI.

## **5.10 Weight Gain**

Women tend to gain weight while on therapy with Depo-Provera CI. From an initial average body weight of 136 lb, women who completed 1 year of therapy with Depo-Provera CI gained an average of 5.4 lb. Women who completed 2 years of therapy gained an average of 8.1 lb. Women who completed 4 years gained an average of 13.8 lb. Women who completed 6 years gained an average of 16.5 lb. Two percent of women withdrew from a large-scale clinical trial because of excessive weight gain.

## **5.11 Carbohydrate Metabolism**

A decrease in glucose tolerance has been observed in some patients on Depo-Provera CI treatment. Monitor diabetic patients carefully while receiving Depo-Provera CI.

## **5.12 Lactation**

Detectable amounts of drug have been identified in the milk of mothers receiving Depo-Provera CI. In nursing mothers treated with Depo-Provera CI, milk composition, quality, and amount are not adversely affected. Neonates and infants exposed to medroxyprogesterone from breast milk have been studied for developmental and behavioral effects through puberty. No adverse effects have been noted.

## **5.13 Fluid Retention**

Because progestational drugs including Depo-Provera CI may cause some degree of fluid retention, monitor patients with conditions that might be influenced by this condition, such as epilepsy, migraine, asthma, and cardiac or renal dysfunction.

## **5.14 Return of Fertility**

Return to ovulation and fertility is likely to be delayed after stopping Depo-Provera CI. In a large US study of women who discontinued use of Depo-Provera CI to become pregnant, data are available for 61% of them. Of the 188 women who discontinued the study to become pregnant, 114 became pregnant. Based on Life-Table analysis of these data, it is expected that 68% of women who do become pregnant may conceive within 12 months, 83% may conceive within 15 months, and 93% may conceive within 18 months from the last injection. The median time to conception for those who do conceive is 10 months following the last injection with a range of 4 to 31 months, and is unrelated to the duration of use. No data are available for 39% of the patients who discontinued Depo-Provera CI to become pregnant and who were lost to follow-up or changed their mind.

## **5.15 Sexually Transmitted Diseases**

Patients should be counseled that Depo-Provera CI does not protect against HIV infection (AIDS) and other sexually transmitted diseases.

### **5.16 Pregnancy**

Although Depo-Provera CI should not be used during pregnancy, there appears to be little or no increased risk of birth defects in women who have inadvertently been exposed to medroxyprogesterone acetate injections in early pregnancy. Neonates exposed to medroxyprogesterone acetate in-utero and followed to adolescence showed no evidence of any adverse effects on their health including their physical, intellectual, sexual or social development.

### **5.17 Monitoring**

A woman who is taking hormonal contraceptive should have a yearly visit with her healthcare provider for a blood pressure check and for other indicated healthcare.

### **5.18 Interference with Laboratory Tests**

The use of Depo-Provera CI may change the results of some laboratory tests, such as coagulation factors, lipids, glucose tolerance, and binding proteins. [See *Drug Interactions (7.3)*].

## **6 ADVERSE REACTIONS**

The following important adverse reactions observed with the use of Depo-Provera CI are discussed in greater detail in the *Warnings and Precautions* section (5):

- Loss of Bone Mineral Density [see *Warnings and Precautions (5.1)*]
- Thromboembolic disease [see *Warnings and Precautions (5.2)*]
- Breast Cancer [see *Warnings and Precautions (5.3)*]
- Anaphylaxis and Anaphylactoid Reactions [see *Warnings and Precautions (5.5)*]
- Bleeding Irregularities [see *Warnings and Precautions (5.9)*]
- Weight Gain [see *Warnings and Precautions (5.10)*]

### **6.1 Clinical Trials Experience**

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

In the two pivotal clinical trials with Depo-Provera CI, over 3,900 women, who were treated for up to 7 years, reported the following adverse reactions, which may or may not be related to the use of Depo-Provera CI. The population studied ranges in age from 15 to 51 years, of which 46% were White, 50% Non-White, and 4.9% Unknown race. The patients received 150 mg Depo-Provera CI every 3-months (90 days). The median study duration was 13 months with a range of 1-84 months. Fifty eight percent of patients remained in the study after 13 months and 34% after 24 months.

**Table 1 Adverse Reactions that Were Reported by More than 5% of Subjects**

Body System*	Adverse Reactions (Incidence (%))
<b>Body as a Whole</b>	Headache (16.5%) Abdominal pain/discomfort (11.2%)
<b>Metabolic/Nutritional</b>	Increased weight > 10 lbs at 24 months (37.7%)
<b>Nervous</b>	Nervousness (10.8%) Dizziness (5.6%) Libido decreased (5.5%)
<b>Urogenital</b>	Menstrual irregularities: bleeding (57.3% at 12 months, 32.1% at 24 months) amenorrhea (55% at 12 months, 68% at 24 months)

\* Body System represented from COSTART medical dictionary.

**Table 2 Adverse Reactions that Were Reported by between 1 and 5% of Subjects**

Body System*	Adverse Reactions (Incidence (%))
<b>Body as a Whole</b>	Asthenia/fatigue (4.2%) Backache (2.2%) Dysmenorrhea (1.7%) Hot flashes (1.0%)
<b>Digestive</b>	Nausea (3.3%) Bloating (2.3%)
<b>Metabolic/Nutritional</b>	Edema (2.2%)
<b>Musculoskeletal</b>	Leg cramps (3.7%) Arthralgia (1.0%)
<b>Nervous</b>	Depression (1.5%) Insomnia (1.0%)
<b>Skin and Appendages</b>	Acne (1.2%), No hair growth/alopecia (1.1%) Rash (1.1%)
<b>Urogenital</b>	Leukorrhea (2.9%) Breast pain (2.8%) Vaginitis (1.2%)

Body System represented from COSTART medical dictionary.

**Adverse reactions leading to study discontinuation in  $\geq 2\%$  of subjects:** bleeding (8.2%), amenorrhea (2.1%), weight gain (2.0%)

## 6.2 Post-marketing Experience

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

There have been cases of osteoporosis including osteoporotic fractures reported post-marketing in patients taking Depo-Provera CI.

**Table 3 Adverse Reactions Reported during Post-Marketing Experience**

<b>Body System</b>	<b>Adverse Reactions</b>
<b>Body as a Whole</b>	Chest pain, Allergic reactions, Fever, Pain at injection site, Chills, Axillary swelling
<b>Cardiovascular</b>	Syncope, Tachycardia, Thrombophlebitis, Deep vein thrombosis, Pulmonary embolus, Varicose veins
<b>Digestive</b>	Changes in appetite, Gastrointestinal disturbances, Jaundice, Excessive thirst, Rectal bleeding
<b>Hematologic and Lymphatic</b>	Anemia, Blood dyscrasia
<b>Musculoskeletal</b>	Osteoporosis
<b>Nervous</b>	Paralysis, Facial palsy, Paresthesia, Drowsiness
<b>Respiratory</b>	Dyspnea and asthma, Hoarseness
<b>Skin and Appendages</b>	Hirsutism, Excessive sweating and body odor, Dry skin, Scleroderma
<b>Urogenital</b>	Cervical cancer, Breast cancer, Lack of return to fertility, Unexpected pregnancy, Prevention of lactation, Changes in breast size, Breast lumps or nipple bleeding, Galactorrhea, Melasma, Chloasma, Increased libido, Uterine hyperplasia, Genitourinary infections, Vaginal cysts, Dyspareunia

\* Body System represented from COSTART medical dictionary.

## **7 DRUG INTERACTIONS**

### **7.1 Changes in Contraceptive Effectiveness Associated with Co-Administration of Other Products**

If a woman on hormonal contraceptives takes a drug or herbal product that induces enzymes, including CYP3A4, that metabolize contraceptive hormones, counsel her to use additional contraception or a different method of contraception. Drugs or herbal products that induce such enzymes may decrease the plasma concentrations of contraceptive hormones, and may decrease the effectiveness of hormonal contraceptives. Some drugs or herbal products that may decrease the effectiveness of hormonal contraceptives include:

- barbiturates
- bosentan
- carbamazepine
- felbamate
- griseofulvin
- oxcarbazepine
- phenytoin
- rifampin
- St. John's wort
- topiramate

HIV protease inhibitors and non-nucleoside reverse transcriptase inhibitors: Significant changes (increase or decrease) in the plasma levels of progestin have been noted in some cases of co-administration of HIV protease inhibitors. Significant changes (increase or decrease) in the plasma levels of the progestin have been noted in some cases of co-administration with non-nucleoside reverse transcriptase inhibitors.



Antibiotics: There have been reports of pregnancy while taking hormonal contraceptives and antibiotics, but clinical pharmacokinetic studies have not shown consistent effects of antibiotics on plasma concentrations of synthetic steroids.

Consult the labeling of all concurrently-used drugs to obtain further information about interactions with hormonal contraceptives or the potential for enzyme alterations.

## **7.2 Aminoglutethimide**

Aminoglutethimide administered concomitantly with the Depo-Provera CI may significantly depress the serum concentrations of medroxyprogesterone acetate. Users of Depo-Provera CI should be warned of the possibility of decreased efficacy with the use of this or any related drugs.

## **7.3 Laboratory Test Interactions**

The pathologist should be advised of progestin therapy when relevant specimens are submitted.

The following laboratory tests may be affected by progestins including Depo-Provera CI:

- (a) Plasma and urinary steroid levels are decreased (e.g., progesterone, estradiol, pregnanediol, testosterone, cortisol).
- (b) Gonadotropin levels are decreased.
- (c) Sex-hormone-binding-globulin concentrations are decreased.
- (d) Protein-bound iodine and butanol extractable protein-bound iodine may increase. T<sub>3</sub>-uptake values may decrease.
- (e) Coagulation test values for prothrombin (Factor II), and Factors VII, VIII, IX, and X may increase.
- (f) Sulfobromophthalein and other liver function test values may be increased.
- (g) The effects of medroxyprogesterone acetate on lipid metabolism are inconsistent. Both increases and decreases in total cholesterol, triglycerides, low-density lipoprotein (LDL) cholesterol, and high-density lipoprotein (HDL) cholesterol have been observed in studies.

# **8 USE IN SPECIFIC POPULATIONS**

## **8.1 Pregnancy**

Depo-Provera CI should not be administered during pregnancy. *See Warnings and Precautions (5.16).*

## **8.3 Nursing Mothers**

Detectable amounts of drug have been identified in the milk of mothers receiving Depo-Provera CI. [*See Warnings and Precautions (5.12).*]

## **8.4 Pediatric Use**

Depo-Provera CI is not indicated before menarche. Use of Depo-Provera CI is associated with significant loss of BMD. This loss of BMD is of particular concern during adolescence and early adulthood, a critical period of bone accretion. In adolescents, interpretation of BMD results should take into account patient age and skeletal maturity. It is unknown if use of Depo-Provera CI by younger women will reduce peak bone mass and increase the risk of osteoporotic fractures in later life. Other than concerns about loss of BMD, the safety and effectiveness are expected to be the same for postmenarchal adolescents and adult women.

## 8.5 Geriatric Use

This product has not been studied in post-menopausal women and is not indicated in this population.

## 8.6 Renal Impairment

The effect of renal impairment on Depo-Provera CI pharmacokinetics has not been studied.

## 8.7 Hepatic Impairment

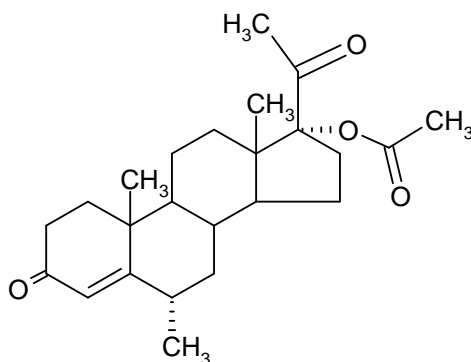
The effect of hepatic impairment on Depo-Provera CI pharmacokinetics has not been studied. Depo-Provera CI should not be used by women with significant liver disease and should be discontinued if jaundice or disturbances of liver function occur. [See *Contraindications (4) and Warnings and Precautions (5.6).*]

## 11 DESCRIPTION

Depo-Provera CI contains medroxyprogesterone acetate, a derivative of progesterone, as its active ingredient. Medroxyprogesterone acetate is active by the parenteral and oral routes of administration. It is a white to off-white; odorless crystalline powder that is stable in air and that melts between 200°C and 210°C. It is freely soluble in chloroform, soluble in acetone and dioxane, sparingly soluble in alcohol and methanol, slightly soluble in ether, and insoluble in water.

The chemical name for medroxyprogesterone acetate is pregn-4-ene-3,20-dione, 17-(acetyloxy)-6-methyl-, (6 $\alpha$ -).

The structural formula is as follows:



Depo-Provera CI for intramuscular (IM) injection is available in vials and prefilled syringes, each containing 1 mL of medroxyprogesterone acetate sterile aqueous suspension 150 mg/mL.

Each mL contains:

Medroxyprogesterone acetate	150 mg
Polyethylene glycol 3350	28.9 mg
Polysorbate 80	2.41 mg
Sodium chloride	8.68 mg
Methylparaben	1.37 mg
Propylparaben	0.150 mg
Water for injection	quantity sufficient

When necessary, pH is adjusted with sodium hydroxide or hydrochloric acid, or both.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Depo-Provera CI (medroxyprogesterone acetate [MPA]), when administered at the recommended dose to women every 3 months, inhibits the secretion of gonadotropins which, in turn, prevents follicular maturation and ovulation and results in endometrial thinning. These actions produce its contraceptive effect.

### 12.2 Pharmacodynamics

No specific pharmacodynamic studies were conducted with Depo-Provera CI.

### 12.3 Pharmacokinetics

#### *Absorption*

Following a single 150 mg IM dose of Depo-Provera CI in eight women between the ages of 28 and 36 years old, medroxyprogesterone acetate concentrations, measured by an extracted radioimmunoassay procedure, increase for approximately 3 weeks to reach peak plasma concentrations of 1 to 7 ng/mL.

#### *Distribution*

Plasma protein binding of MPA averages 86%. MPA binding occurs primarily to serum albumin. No binding of MPA occurs with sex-hormone-binding globulin (SHBG).

#### *Metabolism*

MPA is extensively metabolized in the liver by P450 enzymes. Its metabolism primarily involves ring A and/or side-chain reduction, loss of the acetyl group, hydroxylation in the 2-, 6-, and 21-positions or a combination of these positions, resulting in more than 10 metabolites.

#### *Excretion*

The concentrations of medroxyprogesterone acetate decrease exponentially until they become undetectable (<100 pg/mL) between 120 to 200 days following injection. Using an unextracted radioimmunoassay procedure for the assay of medroxyprogesterone acetate in serum, the apparent half-life for medroxyprogesterone acetate following IM administration of Depo-Provera CI is approximately 50 days. Most medroxyprogesterone acetate metabolites are excreted in the urine as glucuronide conjugates with only minor amounts excreted as sulfates.

#### Specific Populations

The effect of hepatic and/or renal impairment on the pharmacokinetics of Depo-Provera CI is unknown.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

*See Warnings and Precautions, (5.3, 5.14, and 5.16).*

## 14 CLINICAL STUDIES

### 14.1 Contraception

In five clinical studies using Depo-Provera CI, the 12-month failure rate for the group of women treated with Depo-Provera CI was zero (no pregnancies reported) to 0.7 by Life-Table method. The effectiveness of Depo-Provera CI is dependent on the patient returning every 3 months (13 weeks) for reinjection.

### 14.2 Bone Mineral Density (BMD) Changes in Adult Women

In a controlled, clinical study, adult women using Depo-Provera CI for up to 5 years showed spine and hip BMD mean decreases of 5–6%, compared to no significant change in BMD in the control group. The decline in BMD was more pronounced during the first two years of use, with smaller declines in subsequent years. Mean changes in lumbar spine BMD of -2.86%, -4.11%, -4.89%, -4.93% and -5.38% after 1, 2, 3, 4, and 5 years, respectively, were observed. Mean decreases in BMD of the total hip and femoral neck were similar.

After stopping use of Depo-Provera CI (150 mg), there was partial recovery of BMD toward baseline values during the 2-year post-therapy period. Longer duration of treatment was associated with less complete recovery during this 2-year period following the last injection. Table 4 shows the change in BMD in women after 5 years of treatment with Depo-Provera CI and in women in a control group, as well as the extent of recovery of BMD for the subset of the women for whom 2-year post treatment data were available.

**Table 4. Mean Percent Change from Baseline in BMD in Adults by Skeletal Site and Cohort (5 Years of Treatment and 2 Years of Follow-Up)**

Time in Study	Spine		Total Hip		Femoral Neck	
	Depo-Provera*	Control**	Depo-Provera*	Control**	Depo-Provera*	Control**
5 years	-5.38% n=33	0.43% n=105	-5.16% n=21	0.19% n=65	-6.12% n=34	-0.27% n=106
7 years	-3.13% n=12	0.53% n=60	-1.34% n=7	0.94% n=39	-5.38% n=13	-0.11% n=63

\*The treatment group consisted of women who received Depo-Provera CI for 5 years and were then followed for 2 years post-use (total time in study of 7 years).

\*\*The control group consisted of women who did not use hormonal contraception and were followed for 7 years.

### 14.3 Bone Mineral Density Changes in Adolescent Females (12-18 years of age)

The impact of Depo-Provera CI (150 mg) use for up to 240 weeks (4.6 years) was evaluated in an open-label non-randomized clinical study in 389 adolescent females (12-18 years). Use of Depo-Provera CI was associated with a significant decline from baseline in BMD.

Partway through the trial, drug administration was stopped (at 120 weeks). The mean number of injections per Depo-Provera CI user was 9.3. The decline in BMD at total hip and femoral neck was greater with longer duration of use (see Table 5). The mean decrease in BMD at 240 weeks was more pronounced at total hip (-6.4%) and femoral neck (-5.4%) compared to lumbar spine (-2.1%).

In general, adolescents increase bone density during the period of growth following menarche, as seen in the untreated cohort. However, the two cohorts were not matched at baseline for age, gynecologic age, race, BMD and other factors that influence the rate of acquisition of bone mineral density.

**Table 5. Mean Percent Change from Baseline in BMD in Adolescents Receiving ≥4 Injections per 60-week Period, by Skeletal Site and Cohort**

Duration of Treatment	Depo-Provera CI (150 mg IM)		Unmatched, Untreated Cohort	
	N	Mean % Change	N	Mean % Change
<b>Total Hip BMD</b>				
Week 60 (1.2 years)	113	-2.75	166	1.22
Week 120 (2.3 years)	73	-5.40	109	2.19
Week 240 (4.6 years)	28	-6.40	84	1.71
<b>Femoral Neck BMD</b>				
Week 60	113	-2.96	166	1.75
Week 120	73	-5.30	108	2.83
Week 240	28	-5.40	84	1.94
<b>Lumbar Spine BMD</b>				
Week 60	114	-2.47	167	3.39
Week 120	73	-2.74	109	5.28
Week 240	27	-2.11	84	6.40

### **BMD recovery post-treatment in adolescent women**

Longer duration of treatment and smoking were associated with less recovery of BMD following the last injection of Depo-Provera CI. Table 6 shows the extent of recovery of BMD up to 60 months post-treatment for adolescent women who received Depo-Provera CI for two years or less compared to more than two years. Post-treatment follow-up showed that, in women treated for more than two years, only lumbar spine BMD recovered to baseline levels after treatment was discontinued. Subjects treated with Depo-Provera for more than two years did not recover to their baseline BMD level at femoral neck and total hip even up to 60 months post-treatment. Adolescent women in the untreated cohort gained BMD throughout the trial period (data not shown).

**Table 6: Extent of BMD Recovery (Months Post-Treatment) in Adolescents by Years of Depo Provera CI Use (2 Years or Less vs. More than 2 Years)**

Duration of Treatment	2 years or less		More than 2 years	
	N	Mean % Change from baseline	N	Mean % Change from baseline
<b>Total Hip BMD</b>				
<b>End of Treatment</b>	49	-1.5%	49	-6.2%
12 M post-treatment	33	-1.4%	24	-4.6%
24 M post-treatment	18	0.3%	17	-3.6%
36 M post-treatment	12	2.1%	11	-4.6%
48 M post-treatment	10	1.3%	9	-2.5%
60 M post-treatment	3	0.2%	2	-1.0%
<b>Femoral Neck BMD</b>				
<b>End of Treatment</b>	49	-1.6%	49	-5.8%
12 M post-treatment	33	-1.4%	24	-4.3%
24 M post-treatment	18	0.5%	17	-3.8%
36 M post-treatment	12	1.2%	11	-3.8%
48 M post-treatment	10	2.0%	9	-1.7%
60 M post-treatment	3	1.0%	2	-1.9%
<b>Lumbar Spine BMD</b>				
<b>End of Treatment</b>	49	-0.9%	49	-3.5%
12 M post-treatment	33	0.4%	23	-1.1%
24 M post-treatment	18	2.6%	17	1.9%
36 M post-treatment	12	2.4%	11	0.6%
48 M post-treatment	10	6.5%	9	3.5%
60 M post-treatment	3	6.2%	2	5.7%

## 16 HOW SUPPLIED/STORAGE AND HANDLING

Depo-Provera CI is supplied in the following strengths and package configurations:

Package Configuration	Strength	NDC
<b>Depo-Provera CI (medroxyprogesterone acetate sterile aqueous suspension 150 mg/mL)</b>		
1 mL vial	150 mg/mL	NDC 0009-0746-30
25 x 1 mL vials	150 mg/mL	NDC 0009-0746-35
1 mL prefilled syringe	150 mg/mL	NDC 0009-7376-01
6 x 1 mL prefilled syringes	150 mg/mL	NDC 0009-7376-02
24 x 1 mL prefilled syringes	150 mg/mL	NDC 0009-7376-03
<b>Depo-Provera CI prefilled syringes packaged with 22 gauge x 1 1/2 inch BD SafetyGlide™ Needles</b>		
1 mL prefilled syringe	150 mg/mL	NDC 0009-7376-04
6 x 1 mL prefilled syringes	150 mg/mL	NDC 0009-7376-05
24 x 1 mL prefilled syringes	150 mg/mL	NDC 0009-7376-06

Vials MUST be stored upright at controlled room temperature 20° to 25°C (68° to 77°F) [see USP].

Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP].

## 17 PATIENT COUNSELING INFORMATION

See *FDA Approved Patient Labeling*.

- Advise patients at the beginning of treatment that their menstrual cycle may be disrupted and that irregular and unpredictable bleeding or spotting results, and that this usually decreases to the point of amenorrhea as treatment with Depo-Provera CI continues, without other therapy being required.
- Counsel patients that this product does not protect against HIV infection (AIDS) and other sexually transmitted diseases.
- Counsel patients on Warnings and Precautions associated with use of Depo-Provera CI.



*Distributed by*

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## FDA Approved Patient Labeling

**Depo-Provera® (DEP-po pro-VAIR-ah) Contraceptive Injection (Depo-Provera CI) (medroxyprogesterone acetate injectable suspension)**

### Patient Labeling

**Use of Depo-Provera CI may cause you to lose calcium stored in your bone and decrease your bone mass. The longer you are on Depo-Provera CI, the greater the loss may be. The loss of calcium and bone mass may not recover completely once you stop using Depo-Provera CI.**

**You should not use Depo-Provera CI for more than two years unless other methods of birth control are not right for you. If you use Depo-Provera CI continuously for a long time (for more than 2 years), it may increase the risk of weak, porous bones (osteoporosis) that could increase the risk that your bones might break, especially after menopause.**

**It is not known if your risk of developing osteoporosis is greater if you are a teenager or young adult when you start to use Depo-Provera CI. (See “What are the possible side effects of Depo-Provera CI?”)**

**This product is intended to prevent pregnancy. Depo-Provera CI does not protect against HIV infection (AIDS) and other sexually transmitted diseases (STDs).**

Read this Patient Information carefully before you decide if Depo-Provera CI is right for you. This information does not take the place of talking with your gynecologist or other healthcare provider who specializes in women’s health. If you have any questions about Depo-Provera CI, ask your healthcare provider. You should also learn about other birth control methods to choose the one that is best for you.

### **What is Depo-Provera CI?**

Depo-Provera CI is a progestin hormone birth control method that is given by injection (a shot) to prevent pregnancy.

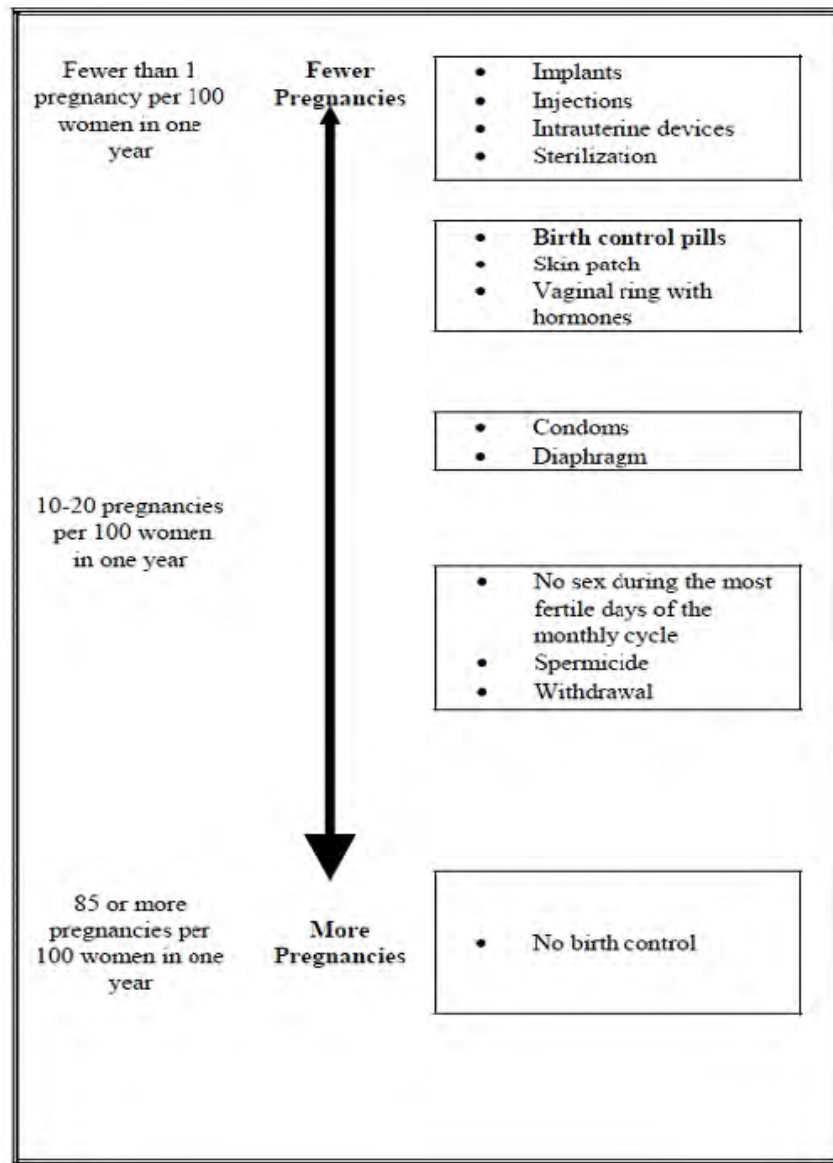
### **How well does Depo-Provera CI work ?**

The effectiveness of Depo-Provera CI depends on you returning every 3 months for your next injection. In clinical studies, fewer than 1 out of 100 women got pregnant during the first year that they used Depo-Provera CI.

The following chart shows the chance of getting pregnant for women who use different methods of birth control. Each box on the chart contains a list of birth control methods that are similar in effectiveness. The most effective methods are at the top of the chart. The box on the bottom of the chart shows the chance of getting pregnant for women



who do not use birth control and are trying to get pregnant.



### How should I take Depo-Provera CI?

- Depo-Provera CI is given as a shot into a muscle (intramuscular injection) in your buttock or upper arm once every 3 months. At the end of the 3 months, you will need to return to your healthcare provider for your next injection in order to continue your protection against pregnancy.
- **To make sure that you are not pregnant before you take Depo-Provera CI, the first injection should be given:**
  - Only during the first 5 days of a normal menstrual period, or
  - Only within the first 5 days after giving birth, if you are not breastfeeding, or
  - Only at the 6th week after giving birth, if you only breastfeed your baby

- During treatment with Depo-Provera CI, you should see your healthcare provider every year for a blood pressure check and other healthcare needs.

### **Who Should Not Use Depo-Provera CI?**

Do not use Depo-Provera CI if you

- are pregnant or think you might be pregnant
- have bleeding from the vagina that has not been explained
- have breast cancer now or in the past, or think you have breast cancer
- have had a stroke
- ever had blood clots in your arms, legs or lungs
- have problems with your liver or liver disease
- are allergic to medroxyprogesterone acetate or any of the other ingredients in Depo-Provera CI. See the end of this leaflet for a complete list of ingredients in Depo-Provera CI.

### **What should I tell my healthcare provider before taking Depo-Provera CI?**

Before taking Depo-Provera CI, tell your healthcare provider if you have:

- risk factors for weak bones (osteoporosis) such as bone disease, use alcohol or smoke regularly, anorexia nervosa, or a strong family history of osteoporosis
- irregular or lighter than usual menstrual periods
- breast cancer now or in the past, or think you have breast cancer
- a family history of breast cancer
- an abnormal mammogram (breast X-ray), fibrocystic breast disease, breast nodules or lumps, or bleeding from your nipples
- kidney problems
- high blood pressure
- had a stroke
- had blood clots in your arms, legs or lungs
- migraine headaches
- asthma
- epilepsy (convulsions or seizures)
- diabetes
- depression or a history of depression
- any other medical conditions

If you are breastfeeding or plan to breastfeed, Depo-Provera CI can pass into your breast milk. Talk to your healthcare provider about the best way to feed your baby if you take Depo-Provera CI.

Tell your healthcare provider about all of the medicines you take, including prescription and nonprescription medicines, vitamins, and herbal supplements.

Depo-Provera CI and certain other medicines may affect each other, causing serious side effects.

Sometimes the doses of other medicines may need to be changed while you are taking Depo-Provera CI.

Some medicines may make Depo-Provera CI less effective at preventing pregnancy.

**Especially tell your healthcare provider if you take:**

- a medicine that makes you sleepy (sedation)
- bosentan
- medicine for seizures
- griseofulvin
- an antibiotic
- medicine for HIV (AIDS)
- aminoglutethimide
- St. John's wort

Ask your healthcare provider or pharmacist for a list of these medicines, if you are not sure if your medicine is listed above.

Know the medicines you take. Keep a list of your medicines with you to show your healthcare provider or pharmacist when you get a new medicine.

**Follow your healthcare provider's instructions about using a back-up method of birth control if you are taking medicines that may make Depo-Provera CI less effective.**

**What are the possible side effects of Depo-Provera CI?**

Depo-Provera CI can cause **serious** side effects, including:

- Effect on the bones: See the Boxed Warning. Teenage years are the most important years to gain bone strength. The decrease in calcium in your bones is of most concern if you are a teenager or have the following risk factors:
  - bone disease
  - anorexia nervosa (an eating disorder)
  - a strong family history of osteoporosis
  - drug use that can lower the amount of calcium in bones (drugs for epilepsy or steroids), or
  - drinking a lot of alcohol (more than 2 drinks/day) or smoking

If you need a birth control method for more than 2 years, your healthcare provider may ask you to switch to another birth control method or ask you to have a test of your bones before continuing Depo-Provera CI, especially if you have other risks for weak bones. When Depo-Provera CI is stopped, your bones may start to recover. However, in a study of teenage girls who used Depo-Provera CI for more than 2 years, this recovery was not complete for hip bones even 5 years after they stopped using Depo-Provera CI. Taking calcium and Vitamin D and exercising daily may lessen the loss of calcium from your bones.

- Increased risk of breast cancer: Studies of women who have used different forms of contraception found that women under 35 years of age who first used Depo-Provera CI within the previous 4 to 5 years may have a slightly increased risk of developing breast cancer.
- blood clots in your arms, legs, lungs, and eyes
- stroke
- a pregnancy outside of the uterus (ectopic pregnancy). Ectopic pregnancy is a medical emergency that often requires surgery. Ectopic pregnancy can cause internal bleeding, infertility, and even death.
- Allergic Reactions: Severe allergic reactions have been reported in some women using Depo-Provera CI.
- Loss of vision or other eye problems
- migraine headaches
- depression
- convulsions or seizures
- liver problems

**Call your healthcare provider right away if you have:**

- Sharp chest pain, coughing up blood, or sudden shortness of breath (indicating a possible clot in the lung)
- Sudden severe headache or vomiting, dizziness or fainting, problems with your eyesight or speech, weakness, or numbness in an arm or leg (indicating a possible stroke)
- Severe pain or swelling in the calf (indicating a possible clot in the leg)
- Unusually heavy vaginal bleeding
- Severe pain or tenderness in the lower abdominal area
- Persistent pain, pus, or bleeding at the injection site
- Yellowing of the eyes or skin
- Hives or difficulty breathing

The most common side effects of Depo-Provera CI include:

- Irregular vaginal bleeding, such as lighter or heavier menstrual bleeding, or bleeding that does not stop
- Weight gain: You may experience weight gain while you are using Depo-Provera CI. About two-thirds of the women who used Depo-Provera CI in the clinical trials reported a weight gain of about 5 pounds during the first year of use. You may continue to gain weight after the first year. Women who used Depo-Provera CI for 2 years gained an average of 8 pounds over those 2 years.
- abdominal pain
- headache
- weakness
- tiredness

- nervousness
- dizziness

Tell your healthcare provider if you have any side effect that bothers you or does not go away.

These are not all the possible side effects of Depo-Provera CI. For more information, ask your healthcare provider or pharmacist.

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

### **What other information should I consider before choosing Depo-Provera CI?**

- **STDs:** Depo-Provera CI does not protect against transmission of HIV (AIDS) and other sexually transmitted diseases such as chlamydia, genital herpes, genital warts, gonorrhea, hepatitis B, and syphilis.
- **Pregnancy:** When you take Depo-Provera CI every 3 months, your chance of getting pregnant is very low. You could miss a period or have a light period and not be pregnant. If you miss 1 or 2 periods and think you might be pregnant, see your healthcare provider as soon as possible. You should not use Depo-Provera CI if you are pregnant. However, Depo-Provera CI taken by accident during pregnancy does not seem to cause birth defects.
- **Nursing Mothers:** Although Depo-Provera CI can be passed to the nursing baby in the breast milk, no harmful effects on babies have been found. Depo-Provera CI does not stop the breasts from producing milk, so it can be used by nursing mothers. However, to minimize the amount of Depo-Provera CI that is passed to the baby in the first weeks after birth, you should wait until your baby is 6 weeks old before you start using Depo-Provera CI for birth control.

### **How will Depo-Provera CI change my periods?**

The side effect reported most frequently by women who use Depo-Provera CI for birth controls is a change in their normal menstrual cycle. During the first year of using Depo-Provera CI, you might have one or more of the following changes:

- irregular or unpredictable bleeding or spotting,
- an increase or decrease in menstrual bleeding
- no bleeding at all

**Missed period:** During the time you are using Depo-Provera CI for birth controls, you may skip a period, or your periods may stop completely. If you have been receiving your shot of Depo-Provera CI regularly every 3 months, then you are probably not pregnant. However, if you think that you may be pregnant, see your healthcare provider.

Unusually heavy or continuous bleeding is not a usual effect of Depo-Provera CI and if this happens you should see your healthcare provider right away.

With continued use of Depo-Provera CI, bleeding usually decreases and many women stop having periods completely. When you stop using Depo-Provera CI your menstrual period will usually, in time, return to its normal cycle.

### **What if I want to become pregnant?**

Because Depo-Provera CI is a long-acting birth control method, it takes some time after your last shot for its effect to wear off. Most women who try to get pregnant after using Depo-Provera CI get pregnant within 18 months after their last shot. The length of time you use Depo-Provera CI has no effect on how long it takes you to become pregnant after you stop using it.

### **General Information about Depo-Provera CI**

Medicines are sometimes prescribed for conditions that are not mentioned in patient information leaflets. This leaflet summarizes the most important information about Depo-Provera CI. If you would like more information, talk with your healthcare provider. You can ask your healthcare provider for information about Depo-Provera CI that is written for healthcare providers.

### **What are the ingredients in Depo-Provera CI?**

**Active ingredient:** medroxyprogesterone acetate

**Inactive ingredients:** polyethylene glycol 3350, polysorbate 80, sodium chloride, methylparaben, propylparaben, and water for injection. When necessary, pH is adjusted with sodium hydroxide or hydrochloric acid, or both.



LAB-0148-5.1