Medroxyprogesterone Acetate Injectable Suspension I.P. DEPO-PROVERA[®]



1. GENERIC NAME

Medroxyprogesterone Acetate Injectable Suspension I.P.

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Injectable suspension

Each ml contains medroxyprogesterone acetate I.P. 150 mg.

List of Excipients

Sodium Chloride Methyl Parahydroxybenzoate Propyl Parahydroxybenzoate Polysorbate 80 Macrogol 3350 (Polyethylene Glycol 3350) Water for Injections Sodium Hydroxide and/or Hydrochloric Acid (when necessary to adjust pH)

All strengths/presentations mentioned in this document might not be available in the market.

3. DOSAGE FORM AND STRENGTH

Dosage Form: Sterile aqueous suspension. Strength: 150 mg/mL

4. CLINICAL PARTICULARS

4.1 Therapeutic Indication

Depot-medroxyprogesterone acetate (DMPA) injectable suspension is indicated for:

DEPO-PROVERA Contraceptive Injection

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- contraception
- treatment of endometriosis

4.2 Posology and Method of Administration

Recommended Dose and Dosage Adjustment

Conception Control:

The recommended dose for contraception is 150 mg of Medroxyprogesterone Acetate every 3 months, administered by deep intramuscular injection.

To increase assurance that the woman is not pregnant at the time of the first administration, it is recommended that this injection be given **only** within the 5 five days of the onset of a normal menstrual period or, **only** within the first 5 days post-partum if not breastfeeding. If the woman has chosen to breastfeed, discuss the risks of pregnancy and possible risks of Medroxyprogesterone Acetate to determine the most appropriate course of action for the individual woman (see section 4.4).

If administered within the first 5 days after the onset of a normal menstrual period, Medroxyprogesterone Acetate is effective from the day of injection. When Medroxyprogesterone Acetate is given later in the menstrual cycle it may not be effective for the first 3 to 4 weeks after the injection and another method of contraception (non-hormonal) should be used during this time.

After miscarriage or first trimester therapeutic abortion, the injection is normally given within 5 days of the procedure and no extra precautions are required. After a late (second trimester) abortion, some further delay is recommended to reduce the risk of heavy and prolonged bleeding, therefore, the first injection should not be given until 4 weeks after the procedure.

The woman must return every 10 to 13 weeks for a repeat intramuscular injection to maintain contraceptive effectiveness. Intervals between intramuscular injections must not exceed 13 weeks (3 months).

When switching from other contraceptive methods, Medroxyprogesterone Acetate 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 Medroxyprogesterone Acetate within 7 days after taking their last active pill).

Endometriosis:

Injectable DMPA should be given intramuscularly 100 mg every 2 weeks for at least 6 months and DMPA can also be given intramuscularly 150 mg every 3 months in endometriosis.

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Use in Children:

Medroxyprogesterone Acetate should not be used before menarche (see section 4.3).

See section 4.4, Loss of Bone Mineral Density for available data for adolescent females (12-18 years).

Missed Dose

If an injection is not given within 13 weeks of the last Medroxyprogesterone Acetate dose, a pregnancy test should be done before any further treatment with Medroxyprogesterone Acetate.

Administration

Medroxyprogesterone Acetate is intended for INTRAMUSCULAR ADMINISTRATION ONLY.

Immediately before use, the sterile aqueous suspension should be vigorously shaken to assure that the dose being administered represents a uniform suspension.

The prefilled syringe is supplied in an ungraduated syringe & hence it is difficult to extract a precise and accurate 100 mg dose for the treatment of endometriosis. Therefore, the prefilled syringe presentation is recommended for the 150 mg every 3 months dosing schedule. The vial can be used in case of 100 mg every 2 weeks dosing regimen for endometriosis.

Other

In the perimenopausal population, age constitutes no absolute limiting factor, although treatment with a progestogen may mask the onset of the climacteric.

Monitoring and Laboratory Tests

Before Medroxyprogesterone Acetate is used, a thorough history and physical examination should be performed, including a blood pressure determination. Breasts, liver, extremities and pelvic organs should be examined. A Papanicolaou smear should be taken if the patient has been sexually active. The first follow-up visit should be three months after the initiation of therapy. Thereafter, examinations should be performed at least once a year, or more frequently if indicated. Women with a strong family history of breast cancer or who have breast nodules should be monitored with particular care. At each visit, examination should include those procedures that were done at the initial visit, as outlined above or as per the recommendations of the Canadian Task force on the Periodic Health Examination.

Bone mineral density (BMD) should be monitored in women using Medroxyprogesterone Acetate for longer than 2 years, or earlier as clinically appropriate. In adolescent females, interpretation of BMD results should take into account patient age and skeletal maturity. If a clinically significant decrease in BMD is detected, treatment with Medroxyprogesterone Acetate should be reconsidered. (See section 4.4, Loss of Bone Mineral Density).

4.3 **Contraindications**

NOT FOR INTRAVENOUS USE

Medroxyprogesterone Acetate is contraindicated in women with:

- Known or suspected pregnancy or as a diagnostic test for pregnancy
- Undiagnosed vaginal and/or urinary tract bleeding
- Known or suspected carcinoma of the breast
- Undiagnosed breast pathology
- Known or suspected progestin-dependent neoplasia
- History of or actual thrombophlebitis or thromboembolic disorders
- History of or actual cerebrovascular disorders including cerebral apoplexy
- History of or actual myocardial infarction or coronary artery disease
- Presence of severe or multiple risk factor(s) for arterial or venous thrombosis:
- Severe hypertension (persistent values of $\geq 160/100$ mm Hg)
- Hereditary or acquired predisposition for venous or arterial thrombosis, such as Factor V
- Leiden and Prothrombin G20210 A mutation, activated protein C(APC-) resistance.
- antithrombin-III-deficiency, protein C deficiency, protein S deficiency,
- hyperhomocysteinaemia and antiphospholipid-antibodies (anticardiolipin antibodies, lupus
- anticoagulant)
- Severe dyslipoproteinemia
- Heavy smoking (>15 cigarettes per day) and over age 35
- Diabetes mellitus with vascular involvement
- Any ocular lesion arising from ophthalmic vascular disease, such as partial or complete loss of vision or defect in visual fields
- Current or history of migraine with focal aura
- Active liver disease or history of or actual benign or malignant liver tumours
- Hypersensitivity to this drug or to any ingredient in the formulation or component of the container.

Medroxyprogesterone Acetate should not be used before menarche.

4.4 Special Warnings and Precautions for Use

<u>General</u>

Discontinue Medication at the Earliest Manifestation of:

A. Thromboembolic and cardiovascular disorders such as thrombophlebitis, pulmonary embolism, cerebrovascular disorders, myocardial ischemia, mesenteric thrombosis and retinal thrombosis;

B. Conditions that predispose to venous stasis and vascular thrombosis, such as immobilization after accidents or confinement to bed during long-term illness. Other non-hormonal methods of contraception should be used until regular activities are resumed. For use of hormonal contraceptives when surgery is contemplated, see **Peri-operative Considerations below**:

C. Visual defects-partial or complete

D. Papilledema or ophthalmic (retinal) vascular lesions

E. Severe headache of unknown etiology or worsening of pre-existing migraine headache.

Counseling when used for conception control

It is very important that adequate explanations of the long-term nature of Medroxyprogesterone Acetate as a contraceptive be given to each woman prior to her first injection. The possible side effects including BMD changes, changes in menstrual cycle and the relatively slow return of fertility should be emphasized. Every effort should be made to ensure that each woman receives such counseling as to enable her to understand fully these explanations and the possible consequences. A detailed Patient Information leaflet that describes the actions, benefits, risks and adverse effects of this contraceptive should be made available to each woman before she makes the decision to use Medroxyprogesterone Acetate for conception control.

Sexually Transmitted Infections

Some epidemiological evidence on hormonal contraceptive methods and the risk of HIV acquisition suggests a possible increase in risk of HIV acquisition in women who use the depot medroxyprogesterone acetate or Medroxyprogesterone Acetate. However, since the evidence comes from observational studies, which are vulnerable to certain methodological biases, it remains unclear if the association is definitively causal. If the association between Medroxyprogesterone Acetate and HIV acquisition risk is causal, data suggest a likely increase in risk of hazards ratio 1.5 or less.

Women considering using Medroxyprogesterone Acetate should be advised about the concerns that Medroxyprogesterone Acetate may increase risk of HIV acquisition, about the uncertainty over whether there is a causal relationship, and about how to minimize their risk of acquiring HIV. Women should be counseled that Medroxyprogesterone Acetate does not protect against sexually transmitted infections (STIs) including HIV infection (AIDS). Safer sex practices including correct and consistent use of condoms reduce the transmission of STIs through sexual contact, including HIV. The benefits of contraceptive options and their risks must be evaluated individually for each woman.

Carcinogenesis and Mutagenesis

Long-term, case-controlled surveillance of users of Medroxyprogesterone Acetate found slight or no increased overall risk of breast cancer and no overall increased risk of ovarian, liver, or cervical cancer and a prolonged, protective effect of reducing the risk of endometrial cancer in the population of users.

Breast Cancer

The World Health Organization Study, a component of a pooled analysis, showed an increased RR of 2.19 (95% CI 1.23 to 3.89) of breast cancer associated with the use of Medroxyprogesterone Acetate 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 women who have ever used Medroxyprogesterone Acetate was only 1.2 (95% CI 0.96 to 1.52).

[NOTE: A RR of 1.0 indicates neither an increased nor a decreased risk of cancer associated with the use of the drug, relative to no use of the drug. In the case of the subpopulation with a RR of 2.19, the 95% CI is fairly wide and does not include the value of 1.0, thus inferring an increased risk of breast cancer in the defined subgroup relative to nonusers. The value of 2.19 means that women whose first exposure to drug was within the previous 4 years and who are under 35 years of age have a 2.19-fold (95% CI 1.23 to 3.89-fold) increased risk of breast cancer relative to nonusers. The National Cancer Institute reports an average annual incidence rate for breast cancer for US women, all races, age 30 to 34 years of 26.7 per 100,000. A RR of 2.19, thus, increases the possible risk from 26.7 to 58.5 cases per 100,000 women. The attributable risk, thus, is 31.8 per 100,000 women per year.].

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

Women receiving Medroxyprogesterone Acetate should be counselled regarding the importance of breast self-examination. Clinical breast examination should be performed at regular intervals.

Cervical Cancer

A statistically insignificant increase in RR estimates of invasive squamous-cell cervical cancer has been associated with the use of Medroxyprogesterone Acetate 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 Medroxyprogesterone Acetate 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.

<u>Cardiovascular</u>

Thromboembolic Disorders

Although Medroxyprogesterone Acetate has not been causally associated with the induction of thrombotic or thromboembolic disorders, there have been reports of cerebrovascular and thromboembolic adverse events in obese Medroxyprogesterone Acetate women. Women with a prior history of thromboembolic disorders have not been studied in clinical trials and no information is available that would support the safety of Medroxyprogesterone Acetate use in this population. Before prescribing Medroxyprogesterone Acetate, the physician should be alert to the earliest manifestations of thrombotic disorders (thrombophlebitis, cerebrovascular disorders, pulmonary embolism, and retinal thrombosis). Should any of these occur or be suspected, the drug should be discontinued immediately.

Predisposing Factors for Coronary Artery Disease

Cigarette smoking increases the risk of serious cardiovascular side effects and mortality. Convincing data are available to support an upper age limit of 35 years for hormonal contraceptive use by women who smoke.

Other women who are independently at high risk for cardiovascular disease include those who suffer from or have a family history of diabetes, hypertension or an abnormal lipid profile. Whether hormonal contraceptives accentuate this risk is unclear.

There have been post-market reports of cardiovascular events, including heart attack and stroke (e.g. medullary infarction in a heavy smoker) in women using Medroxyprogesterone Acetate (see section 4.8, Post-Market Adverse Drug Reactions). Generally, it is not clear if the risk of cardiovascular events is different for users of Medroxyprogesterone Acetate than for non-users.

Hypertension

There have been reports of cerebro/cardiovascular adverse events in Medroxyprogesterone Acetate users who are suffering from hypertension. Patients

with essential hypertension whose blood pressure is well controlled may be given hormonal contraceptives but only under close supervision. If a significant elevation of blood pressure in previously normotensive or hypertensive subjects occurs at any time during the administration of the drug, cessation of medication is necessary (see section 4.3).

Endocrine and Metabolism

Loss of Bone Mineral Density

Use of Medroxyprogesterone Acetate reduces serum estrogen levels and is associated with a statistically significant loss of BMD as bone metabolism accommodates to a lower estrogen level. This loss of BMD is of particular concern during adolescence and early adulthood, a critical period of bone accretion. Bone loss is greater with increasing duration of use and may not be completely reversible. It is unknown if the use of Medroxyprogesterone Acetate by younger women will reduce peak bone mass and increase the risk for osteoporotic fractures in later life. In both adult and adolescent females the decrease in BMD during treatment appears to be substantially reversible after medroxyprogesterone acetate injection is discontinued and ovarian estrogen production increases.

In adolescence, following Medroxyprogesterone Acetate use for more than 2 years, subjects did not recover to their baseline BMD level at the femoral neck and total hip even up to 60 months.

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.

Long term use:

BMD should be monitored in women using Medroxyprogesterone Acetate for longer than 2 years, or earlier as clinically appropriate. In adolescent females, interpretation of BMD results should take into account patient age and skeletal maturity. If a clinically significant decrease in BMD is detected, treatment with Medroxyprogesterone Acetate should be reconsidered. Since loss of BMD may occur in pre-menopausal women who use DEPO-PROVERA long-term (greater than 2 years), a risk/benefit assessment, which also takes into consideration the decrease in BMD that occurs during pregnancy and/or lactation, should be considered.

Use of Medroxyprogesterone Acetate should be considered a risk factor for osteoporosis. The use of Medroxyprogesterone Acetate should be considered in light of a patient's possible other risk factors for osteoporosis:

- Chronic alcohol and/or tobacco use
- Chronic use of drugs that can reduce bone mass, e.g., anticonvulsants or corticosteroids

- Low body mass index or eating disorder, e.g., anorexia nervosa or bulimia
- Metabolic bone disease
- Strong family history of osteoporosis

BMD Changes in Adult Women and BMD Recovery Post-treatment in Adult Women

In a controlled, open-label, non-randomized clinical study (Medroxyprogesterone Acetate n=248, placebo n=360), adult women using Medroxyprogesterone Acetate (150 mg IM) for up to 5 years for contraception showed spine and hip mean BMD 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 2 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. There were no significant changes in BMD in the control women over the same period of time. Table 1 shows the extent of recovery of BMD for women who received one or more Medroxyprogesterone Acetate injections during Years 1 through 5.

Time in	n Lumbar Spine		Total Hip		Femoral Neck	
Study						
	Medroxy progester one Acetate**	Control ***	Medroxyprogesterone Acetate**	Control* **	Medroxypr ogesterone Acetate**	Control***
1 year	n=135	n=253	n=88	n=125	n=137	n=254
	-2.86%	0.22%	-1.56%	0.95%	-2.85%	0.28%
2 years	n=94	n=197	n=57	n=94	n=95	n=195
	-4.11%	0.29%	-3.06%	0.69%	-3.99%	-0.22%
3 years	n=71	n=159	n=42	n=77	n=72	n=159
	-4.89%	0.31%	-3.89%	-0.06%	-4.80%	-0.23%
4 years	n=59	n=137	n=31	n=70	n=58	n=138
	-4.93%	0.35%	-4.52%	-0.02%	-5.90%	-0.53%
5 years	n=33	n=105	n=21	n=65	n=34	n=106
	-5.38%	0.43%	-5.16%	0.19%	-6.12%	-0.27%
Post- therapy [†] Year 1	n=45 -2.42%	n=87 0.28%	n=31 -0.70%	n=54 0.65%	n=45 -3.04%	n=86 -0.27%
Post- therapy [†] Year 2	n=41 -1.19%	n=66 0.47%	n=25 -0.20%	n=43 0.84%	n=42 -3.11%	n=69 -0.36%

Table 1. Mean Percent Change from Baseline in BMD in Adults by Skeletal Site and Cohort (ITT Population*)

* Intent-to-treat population consisted of patients who enrolled in the study and had BMD measured at screening/baseline and at least one post-baseline time point.

** Medroxyprogesterone acetate group consisted of women who received one or more medroxyprogesterone acetate injections during Years 1 through 5.

*** The control group consisted of women who did not use Medroxyprogesterone Acetate prior to the indicated time point.

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[†] Women who took one or more doses of Medroxyprogesterone Acetate, and then stopped treatment, entered the Post-therapy phase of the study; BMD results from such subjects would no longer be reported in the on-therapy section of the Table. For Control women, results from Years 6 and 7 are shown in the Post-therapy section.

After stopping use of Medroxyprogesterone Acetate (150 mg IM), there was partial progressive recovery of BMD toward baseline values during the 2-year post-therapy period. After 2-years off treatment, the BMD deficit had decreased to approximately 2.1% at the spine and hip. A longer duration of treatment was associated with a less complete BMD recovery observed during the 2-year, post-therapy period.

BMD Changes in Adolescent Females (12-18 years)

The impact of Medroxyprogesterone Acetate (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 Medroxyprogesterone Acetate 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 Medroxyprogesterone Acetate user was 9.3. The decline in BMD at total hip and femoral neck was greater with longer duration of use (see Table 2). 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.

Duration of Treatment	Medroxyprogesterone Acetate CI (150 mg IM)		Unmatched, Untreated Cohort	
	Ν	Mean % Change	Ν	Mean % Change
Total Hip BMD				
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
Femoral Neck BMD				
Week 60	113	-2.96	166	1.75
Week 120	73	-5.30	108	2.83
Week 240	28	-5.40	84	1.94
Lumbar Spine BMD				
Week 60	114	-2.47	167	3.39
Week 120	73	-2.74	109	5.28
Week 240	27	-2.11	84	6.40

Table 2. Mean Percent Change from Baseline in BMD in Adolescents Receiving ≥4 Injections per 60-week Period, by Skeletal Site and Cohort

BMD Recovery Post-Treatment in Adolescents

Longer duration of treatment and smoking were associated with less recovery of BMD following the last injection of Medroxyprogesterone Acetate. Table 3 shows the extent of recovery of BMD up to 60 months post-treatment for adolescent women who received Medroxyprogesterone Acetate 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 Medroxyprogesterone Acetate 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).

Duration of Treatment	2 years or less		More than 2 years	
	N Mean % Change from baseline		Ν	Mean % Change from baseline
		Total Hip BMD		
End of Treatment	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%
Femoral Neck BMD				
End of Treatment	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%
		Lumbar Spine BMD	1	
End of Treatment	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%

Table 3. Extent of BMD Recovery (Months Post-Treatment) in Adolescentsby Years Medroxyprogesterone Acetate Use (2 Years or Less vs. More than2 Years)

Relationship of Fracture Incidence to Use of Medroxyprogesterone Acetate (150 mg IM) or Non-Use by Women of Reproductive Age

association А retrospective cohort study to assess the between Medroxyprogesterone Acetate injection and the incidence of bone fractures was conducted in 312,395 female contraceptive users in the UK. The incidence rates of fracture were compared between Medroxyprogesterone Acetate users and contraceptive users who had no recorded use of Medroxyprogesterone Acetate. The Incident Rate Ratio (IRR) for any fracture during the follow-up period (mean = 5.5years) was 1.41 (95% CI 1.35, 1.47). It is not known if this is due to Medroxyprogesterone Acetate use or to other related lifestyle factors that have a bearing on fracture rate.

In the study, when cumulative exposure to Medroxyprogesterone Acetate was calculated, the fracture rate in users who received fewer than 8 injections was higher than that in women who received 8 or more injections. However, it is not clear that cumulative exposure, which may include periods of intermittent use

separated by periods of non-use, is a useful measure of risk, as compared to exposure measures based on continuous use.

There were very few fractures at skeletal sites known to be related to low BMD in the study and the incidence of these fractures was not found to be higher in Medroxyprogesterone Acetate users compared to non-users. Importantly, this study could not determine whether use of Medroxyprogesterone Acetate has an effect on fracture rate later in life.

In post-marketing experience, there have been cases of osteoporosis including osteoporotic fractures reported in patients taking Medroxyprogesterone Acetate. Patient age ranged from 16 years to 48 years (see Post-Market Adverse Drug Reactions).

Adrenocortical Function

Clinical suppression of adrenocortical functions has not been observed at low dose levels used for contraception (ovulation suppression).

Carbohydrate Metabolism

A decrease in glucose tolerance has been observed in some women receiving Medroxyprogesterone Acetate. The mechanisms of this decrease are obscure. For this reason, diabetic women should be carefully observed while receiving Medroxyprogesterone Acetate.

Fluid Retention

Since progestogens may cause some degree of fluid retention, conditions that might be influenced by this factor, such as migraine, asthma, or cardiac or renal dysfunction, require careful observation.

Weight Changes

Weight gain may be associated with the use of Medroxyprogesterone Acetate (see section 4.8, Clinical Trial Adverse Drug Reactions, Weight Gain Experience). The majority of studies report a mean weight gain of 5.4 lbs (2.5 kg) at the end of 1 year, but only 2% of women discontinued treatment due to excessive weight gain. Many studies indicate that weight gain occurs mainly in the first year of use, however, others do report a slow and continuing increase which may reach a mean of 8 lbs (3.6 kg) by the end of 2 years. Some 20 to 40 percent of Medroxyprogesterone Acetate users actually lose weight during treatment.

Genitourinary

Irregular Menstrual Patterns

Disruption of menstrual patterns is common following the administration of Medroxyprogesterone Acetate. This includes irregular or unpredictable bleeding or spotting, or rarely heavy or continuous bleeding. If undiagnosed vaginal bleeding occurs, or if abnormal bleeding persists or is severe, appropriate investigation should be instituted to rule out the possibility of organic pathology, and appropriate treatment instituted if necessary.

As women continue to use Medroxyprogesterone Acetate, fewer experience irregular bleeding patterns and more experience amenorrhea. By month 12, amenorrhea was reported by 55% of women, and by month 24, amenorrhea was reported by 68% of women using Medroxyprogesterone Acetate.

Because of the prolonged effect following intramuscular injection of Medroxyprogesterone Acetate, re-establishment of menstruation may be delayed and difficult to predict. For this reason, Medroxyprogesterone Acetate is not recommended for treatment of secondary amenorrhea or functional uterine bleeding. For these conditions, oral progestogen therapy is recommended.

<u>Hematologic</u>

There have been post-market reports of arterial and venous thromboembolism (VTE) in women using Medroxyprogesterone Acetate (see section 4.8, Post-Market Adverse Drug Reactions). Generally, it is not clear if the risk of arterial and venous thromboembolism is different for users of Medroxyprogesterone Acetate than for non-users.

Generalized risk factors for venous thromboembolism include a personal history, a family history (the occurrence of VTE in a direct relative at a relatively early age may indicate genetic predisposition), severe obesity (body mass index >30 kg/m²) and systemic lupus erythematosus. The risk of VTE also increases with age and smoking. The risk of VTE may be temporarily increased with prolonged immobilization, major surgery or trauma.

Hepatic/Biliary/Pancreatic

Liver function tests should be performed periodically in women who are suspected of, or who are at risk of, having hepatic disease. The physician should be alert to the earliest manifestations of impaired liver function. Should this occur or be suspected, the treatment should not be continued. The woman's status should be reevaluated at appropriate intervals. If jaundice develops, consideration should be given to discontinue the drug. Patients who have had jaundice, including a history of cholestatic jaundice during pregnancy or during use of oral contraceptives should be given hormonal contraceptives only with great care and under close observation.

<u>Immune</u>

Anaphylactic Reactions

Anaphylactic and anaphylactoid reactions have occasionally been reported in women treated with Medroxyprogesterone Acetate. If an anaphylactic reaction occurs, appropriate therapy should be instituted. Serious anaphylactic reactions require emergency medical treatment.

<u>Neurologic</u>

CNS Disorders and Convulsions

There have been few reported cases of convulsions in patients who were treated with Medroxyprogesterone Acetate. Association with Medroxyprogesterone Acetate use or pre-existing conditions is not clear. Women with known seizure disorders, including epilepsy, require careful observation.

Migraine and Headache

The onset or exacerbation of migraine or the development of headaches with a new pattern that is recurrent, persistent or severe requires discontinuation of hormonal contraceptives and evaluation of the cause.

Women with migraine headache who take hormonal contraceptives may be at increased risk of stroke (see section 4.3).

Meningioma

Meningiomas have been reported following long-term administration of progestins, including medroxyprogesterone acetate (MPA). MPA should be discontinued if a meningioma is diagnosed. Caution is advised when recommending medroxyprogesterone to patients with a history of meningioma.

Ophthalmologic

Ocular Disorders

Discontinue medication pending examination, if there is sudden partial or complete loss of vision, or if there is a sudden onset of proptosis, diplopia or migraine. If examination reveals papilledema or retinal vascular lesions, medication should be withdrawn.

Peri-operative Considerations

If feasible, hormonal contraceptives should be discontinued and an alternative method substituted at least four weeks prior to elective surgery of a type associated with an increase in risk of thromboembolism and during prolonged immobilization. Hormonal contraceptives should not be resumed until the first menstrual period after hospital discharge following surgery or following prolonged immobilization.

<u>Psychiatric</u>

Women who have a history of mental depression should be carefully observed and this drug discontinued if serious depression re-occurs. Some women may complain of premenstrual like depression while on Medroxyprogesterone Acetate therapy.

Sexual Function/Reproduction

Return of Fertility

There is no evidence that Medroxyprogesterone Acetate causes infertility. A large study of return of fertility shows that women conceived 9 months on average after the last injection, or 5.5 months after discontinuing (discontinuance is assumed to be 15 weeks after the last injection). In addition, the number of users who had conceived within 2 years of discontinuing their method of contraception (92% of Medroxyprogesterone Acetate users had conceived within 2 years after discontinuing compared with 93% for users of the IUD and 95% for users of oral contraceptives) were comparable. Discuss this information with women who intend to conceive in the next 1 to 2 years.

Cumulative conception rates for women discontinuing use of an IUD, oral contraceptives, or Medroxyprogesterone Acetate in order to become pregnant



DEPO-PROVERA Contraceptive Injection Page 16 of 40 LPDDPA122024 PfLEET Number: 2024-0095674 In some cases, women have not become pregnant after stopping injections of Medroxyprogesterone Acetate. It is not known whether Medroxyprogesterone Acetate or other factors resulted in a change in the ability to conceive. Many reasons exist for such changes, including increased age and the onset of menopause. The infertility rate in the normal population is 7%.

Ectopic pregnancy

Physicians should investigate the possibility of an ectopic pregnancy among women using Medroxyprogesterone Acetate who complain of severe abdominal pain.

4.5 Drugs Interactions

<u>Overview</u>

Medroxyprogesterone acetate is metabolized in-vitro primarily by hydroxylation via the CYP3A4. Specific drug-drug interaction studies evaluating the clinical effects with CYP3A4 inducers or inhibitors on medroxyprogesterone acetate have not been conducted and therefore the clinical effects of CYP3A4 inducers or inhibitors are unknown.

The results of one study indicated that intramuscularly administered medroxyprogesterone acetate may induce or activate the CYP3A4 enzyme system, leading to an increased metabolism of many CYP3A4 substrates.

Drug-Drug Interactions

Aminoglutethimide:

Aminoglutethimide administered concomitantly with Medroxyprogesterone Acetate may significantly depress the serum concentration of medroxyprogesterone acetate. Users of Medroxyprogesterone Acetate should be warned of the possibility of decreased efficacy with the use of this or any related drugs.

<u>Rifampin</u>:

Rifampin can increase the metabolism of exogenously administered progestational agents. Norethindrone has specifically been affected; a reduction of plasma concentrations has occurred. The extent to which rifampin may alter the metabolism of other progestogens remains to be determined; the possibility of an interaction should be considered.

Drug-Food Interactions

Interactions with food have not been established.

Drug-Herb Interactions

Interactions with herbal products have not been established.

Drug-Laboratory Test Interactions

Certain endocrine and possibly liver function tests may be affected by treatment with Medroxyprogesterone Acetate. Therefore, if such tests are abnormal in a woman taking Medroxyprogesterone Acetate, it is recommended that they be repeated 6 to 12 months after the drug has been withdrawn.

The clinical chemist or pathologist should be advised of progestogen therapy when a woman's blood or tissue specimens are submitted for laboratory diagnosis or biochemical analysis.

The following laboratory tests may be affected by the use of Medroxyprogesterone Acetate:

(a) Gonadotropin levels - inhibition of the midcycle LH surge

(b) Plasma progesterone levels - inhibition of ovulation and thus the postovulatory rise of progesterone

(c) Plasma estrogen levels - do not exceed early-to-mid-proliferative phase levels

(d) Plasma cortisol levels - not significantly affected by the dose used for contraception

(e) Glucose tolerance test - occasionally some degree of glucose intolerance may develop

(f) Plasma lipid concentrations - decrease in high density lipoprotein cholesterol (HDL-C) in some studies. The clinical relevance of this has yet to be determined

(g) Urinary pregnanediol levels (Note: Medroxyprogesterone Acetate does not interfere with the assay of human chorionic gonadotropin (HCG) either chemically or pharmacologically).

4.6 Use in Special Populations

Pregnant Women:

To increase assurance that the woman is not pregnant at the time of the first administration, it is recommended that the first injection be given only within the first 5 days of the onset of a normal menstrual period or, only within the first 5 days post-partum if not breastfeeding (see section 4.2).

Infants from unexpected pregnancies that occurred 1 to 2 months after injection of Medroxyprogesterone Acetate may be at an increased risk of low birth weight, which, in turn, is associated with an increased risk of neonatal death. The attributable risk is low because such pregnancies are uncommon.

A significant increase in incidence of polysyndactyly and chromosomal anomalies was observed among infants of users of Medroxyprogesterone Acetate, the former being most pronounced in women under 30 years of age. The unrelated nature of these defects, the lack of confirmation from other studies, the distant preconceptual exposure to Medroxyprogesterone Acetate and the chance effects due to multiple statistical comparisons, make a causal association unlikely.

Children 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.

Several reports suggest an association between intra-uterine exposure to progestational drugs in the first trimester of pregnancy and genital abnormalities in male and female fetuses. The risk of hypospadias (5 to 8 per 1,000 male births in the general population) may be approximately doubled with exposure to these drugs. Although there are insufficient data to quantify the risk to exposed female fetuses, some of these drugs induce mild virilization of the external genitalia of the female fetus. Because of these changes, it is prudent to avoid the use of progestogens during the first trimester of pregnancy.

Although a causal relationship between Medroxyprogesterone Acetate and the induction of thrombotic or thromboembolic disorders has not been determined, in post-marketing experience, cases of cerebro/cardiovascular and thromboembolic adverse events occurring 48 hours to 2 months after delivery have been reported. Women should be encouraged to consider a form of contraception that does not increase the risk of the above-noted events in the three months post-partum, if possible.

Nursing Women:

Detectable amounts of progestogen have been identified in the milk of mothers receiving Medroxyprogesterone Acetate. Two studies have indicated that the maximum amount of Medroxyprogesterone Acetate which might be ingested by a breastfeeding infant whose mother is receiving Medroxyprogesterone Acetate for contraception would be 1.0 to 1.5 μ g/day (or 0.0015 mg/day, 0.045 mg/month, 0.27 mg over 6 months which is about 0.05 mg/kg over 6 months for a 5.5 kg baby). If absorption properties between adult and infant are comparable, this amount would be too low to suppress pituitary function in the infant. No adverse effects related to lactation itself or infant growth were reported in studies where Medroxyprogesterone Acetate was started 1-4 days, 7 days or within 6 weeks postpartum.

In nursing mothers treated with Medroxyprogesterone Acetate, milk composition, quality and amount are not adversely affected.

To date, no adverse effects have been observed in children whose mothers were using Medroxyprogesterone Acetate while lactating. A study of children exposed to medroxyprogesterone acetate with median observation periods of 14 - 16 years, indicated no incidence of adverse effects on physical growth, mental growth and development of general health status. However, the long-term effects on the child are not fully understood. It is recommended that Medroxyprogesterone Acetate not be administered until 6 weeks postpartum in women who are breastfeeding to avoid risk of exposure of the neonate to steroid hormones. The physician and woman should discuss the risks of pregnancy versus the risks to the child, if Medroxyprogesterone Acetate is used during lactation, to determine the most appropriate course of action for the individual woman. This discussion should take into account that there have been post-marketing reports of low birth weights and feeding disorders in children whose mothers were neonatal using Medroxyprogesterone Acetate while lactating.

4.7 Effects on Ability to Drive and Use Machines

No data available.

4.8 Undesirable Effects

Adverse Drug Reaction Overview

The following adverse reactions have been associated with the use of Medroxyprogesterone Acetate:

(A) Irregular Menstrual Patterns

The most common adverse reactions associated with the use of Medroxyprogesterone Acetate for contraception is the disruption of menstrual patterns. This includes irregular or unpredictable bleeding or spotting, or rarely heavy or continuous bleeding.

(B) <u>Non-Menstrual Adverse Reactions</u>

Other than menstrual changes, weight gain, headache and abdominal discomfort are the most common side effects.

In a few instances there have been undesirable sequelae at the site of injection, such as a residual lump, change in colour of the skin or a sterile abscess.

Anaphylactic and anaphylactoid reactions have been reported on rare occasions.

Clinical Trial Adverse Drug Reactions

Because clinical trials are conducted under very specific conditions the adverse

reaction rates observed in the clinical trials may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse drug reaction information from clinical trials is useful for identifying drug-related adverse events and for approximating rates.

In clinical studies of 3,905 women receiving Medroxyprogesterone Acetate every 3 months, there were a total of 8,467 side effect reports. Headache, abdominal distress, nervousness, dizziness and decreased libido were reported in greater than 5.0 percent of study patients. Thrombophlebitis was reported by 4 women (0.10%).

(A) Total Adverse Reaction Experience:

Table 4 contains a list of reported side effects, the number of times each side effect was reported and the number and percent of patients who reported each side effect. Table 5 contains the number of side effects reported by month and the number of side effect reports per 100 patients "exposed" by month.

	Table 4			
Medro	oxyprogesterone Ace	tate Every 90 Days Si	de Effects	
Symptom	No. of Times Reported	No. of Women Reporting	Percent of Women (3,905)	
Headache	2187	682	17.46	
Abdominal Distress	990	463	11.85	
Nervousness	1143	451	11.55	
Dizziness	411	232	5.94	
Decreased Libido	541	225	5.76	
Asthenia	321	177	4.53	
Limb Pain & Varicose Vein Pain	311	152	3.89	
Nausea	209	138	3.53	
Vaginal Discharge	178	120	3.07	
Breast Swelling & Tenderness	188	114	2.92	
Bloating	170	94	2.41	
Edema Peripheral	170	87	2.22	
Backache	131	87	2.22	
Dysmenorrhea	95	69	1.77	
Depression	100	62	1.59	
Acne	72	48	1.23	
Pruritus Vulvae	67	48	1.23	
No Hair Growth, Alopecia	108	46	1.18	

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Table 4				
Medroxyprogesterone Acetate Every 90 Days Side Effects				
Symptom	No. of Times	No. of Women	Percent of Women	
	Reported	Reporting	(3,905)	
Rash	78	41	1.05	
Hot Flash	51	40	1.02	
Insomnia	54	38	0.97	
Genitourinary	45	34	0.87	
Eve Discomfort	45	33	0.85	
Aporevia	37	20	0.85	
Increased	37	29	0.74	
Appetite	57	20	0.72	
Chest Pain	33	28	0.72	
Dysuria	39	28	0.72	
Diarrhea	28	25	0.64	
Heartburn	26	23	0.59	
Galactorrhea	40	22	0.56	
Pruritus	28	22	0.56	
D&C for	21	21	0.54	
Bleeding				
Pain	25	19	0.49	
Somnolence	23	19	0.49	
Drowsiness				
Dyspareunia	21	17	0.43	
Dyspnea	30	17	0.43	
Abdominal	25	17	0.43	
Swelling				
Allergic	21	15	0.38	
Reactions				
Chloasma	26	13	0.33	
Vomiting	16	12	0.31	
Constipation	19	11	0.28	
Tachycardia	11	10	0.26	
Liver disorders	14	10	0.26	
NOS, altered				
liver function				
Hirsutism	13	10	0.26	
Frequency Urination	11	10	0.26	
Paraesthesia, Sensory Disturbances	13	9	0.23	

According to Table 5, 1,135 (13.40%) of the total 8,467 side effect reports were reported during the first injection period (90 days); during the first two injection periods (first 180 days) 2,070 (24.45%) were reported; 2,826 (33.38%) were

reported during the first three injection periods (first 270 days); and 3,536 (41.75%) were reported during the first four injection periods (first 360 days). The number of patients not reporting any side effects was 2,117 (54.2%).

TABLE 5				
Medroxyprogesterone Acetate EVERY 90 DAYS - SIDE EFFECTS (BY MONTH)				
Month	# Pts Entering/Month	# Reports	# Reports/100 Patients	
1	3905	355	9.09	
2	3670	373	10.16	
3	3571	407	11.40	
4	3294	290	8.80	
5	3084	283	9.18	
6	3004	362	12.05	
7	2792	249	8.91	
8	2634	218	8.28	
9	2579	289	11.22	
10	2419	224	9.26	
11	2299	220	9.57	
12	2253	266	11.81	
15	1872	212	11.32	
18	1659	225	13.56	
21	1485	198	13.33	
24	1344	194	14.43	
27	1180	155	13.14	
30	1037	124	11.96	
33	927	127	13.70	
36	827	128	15.48	
39	722	112	15.51	
42	664	99	14.91	
45	573	84	14.66	
48	474	45	9.49	
51	412	52	12.62	
54	350	46	13.14	
57	305	44	14.43	
60	263	23	8.75	
63	227	19	8.37	
66	201	20	9.95	
69	184	17	9.24	
72	157	17	10.83	
75	118	12	9.32	
78	91	16	17.58	
81	49	3	6.12	
84	1	0	0.00	

Bleeding Experience:

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In U.S. studies of 3,905 women receiving Medroxyprogesterone Acetate every 3 months, unpredictable bleeding or spotting were commonly reported during the first few menstrual cycles with frequency, duration and amount of bleeding diminishing gradually. By month 12, amenorrhea was reported by 55% of the women, and by month 24, amenorrhea was reported by 68% of the women using Medroxyprogesterone Acetate. Bleeding or spotting persisted for more than 10 days of the month in about 12% of the users. Abnormally heavy or prolonged bleeding occurred in about 1 to 2% of users.

The percent of patients with zero days of bleeding and/or spotting per 30-day month increases with time from start of study, as follows:

Month	Percent Having Zero Bleeding and/or Spotting
3	29.3
12	54.6
24	67.7
36	73.8
48	75.5
60	79.3
72	78.9

Bleeding and/or spotting occurred in the following percentage of the 90 days of the indicated injection period.

Injection Period	Months	Percent of Days with Bleedin <u>g</u> and/or Spotting
First	1 – 3	25.7
Fourth	10 - 12	11.8
Eighth	22 - 24	6.8
Twelfth	34 - 36	4.8
Sixteenth	46 - 48	4.3
Twentieth	58 - 60	4.1
Twenty-fourth	70 - 72	4.3

On hundred and ninety four (194) patients reported no bleeding or spotting from first injection to the end of their participation in the study. The median number of days of no spotting or bleeding for these 194 women was 120 days. The minimum number of days of no spotting or bleeding was 30 and the maximum was 1,674 days.

Thirteen (13) patients reported bleeding and/or spotting every day from first injection to the end of their participation in the study.

Weight Gain Experience:



The U.S. studies of 3,905 women receiving Medroxyprogesterone Acetate every 3 months report a mean weight gain of 5.4 lbs (2.5 kg) at the end of 1 year, but only 2% of women discontinued treatment due to excessive weight gain. Many studies indicate that weight gain occurs mainly in the first year of use, however, others report a slow and continuing increase which may reach a mean of 8 lbs (3.6 kg) by the end of 2 years. However, some 20 to 40 percent of Medroxyprogesterone Acetate users actually lose weight during treatment.

A much higher proportion of patients had an increase as had a decrease of more than 15 pounds. The mean body weight changes from baseline (in pounds) were as follows:

Month	Weight Increase	n
12	5.4	1,644
24	8.1	960
36	11.3	567
48	13.8	282
60	14.1	150
72	16.5	109

Laboratory Assay Results

Laboratory assays were performed on a sample of women, rather than on all women. There were no clinically significant changes in any of the haematology, urine or serum chemistry variables that were monitored.

The number of women having had an initial Pap smear taken is 2,052. Ten (10) patients dropped from the study due to a Grade IV Pap smear, while 4 patients dropped out due to a Grade III Pap smear.

(B) Non-Menstrual Adverse Reactions:

The occurrence rates for non-menstrual adverse reactions reported in U.S. studies of 3,905 women receiving Medroxyprogesterone Acetate every 3 months are listed below. 2,253 women were in the study for 12 months or more; 827 women were in the study for 36 months or more. The total number of patient-months of experience was 82,384. A total of 2,117 of the 3,905 women (54%) reported no side effects.

SYSTEM ORGAN	EVENT
CLASS	
General disorders and	Asthenia (5%)
administration site	Peripheral edema (2%)
conditions	The following adverse events occurred in less than 1% of
	patients: Axillary swelling, pain, chills, excessive thirst,
	fever, pain at injection site

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SYSTEM ORGAN	EVENT				
CLASS					
Blood and lymphatic	The following adverse events occurred in less than 1% of				
system disorders	patients: Anemia, blood dyscrasia				
Cardiac disorders	Chest pain, tachycardia (0.2 - 1.0%)				
Eye disorders	Eye discomfort (0.2 - 1.0%)				
Gastrointestinal	Abdominal distress (12%)				
disorders	Nausea (4%)				
	Bloating (2%)				
	Anorexia, increased appetite, diarrhea, heartburn, abdominal				
	swelling, vomiting, constipation (0.2 - 1.0%)				
	The following adverse events occurred in less than 1% of				
	patients: Gastro-intestinal disturbances, rectal bleeding				
Hepatobiliary disorders	Liver disorders NOS, altered liver function (0.2 - 1.0%)				
	The following adverse event occurred in less than 1% of				
	patients: Jaundice				
Immune system	Allergic reactions (0.2 - 1.0%)				
disorders					
Infections and	Genitourinary infection $(0.2 - 1.0\%)$				
infestations					
Musculoskeletal and	Backache (2%)				
connective tissue	Limb pain (4%)				
disorders	Leg cramps, arthralgia (1-5%)				
	The following adverse events occurred in less than 1% of				
	patients: Osteoporosis				
Neoplasms benign,	The following adverse events occurred in less than 1% of				
malignant and	patients: Breast cancer, cervical cancer				
unspecified (incl cysts					
and polyps)					
Nervous system	Headache (17%)				
disorders	Dizziness (6%)				
	Somnolence or drowsiness, paraesthesia, sensory				
	disturbances $(0.2 - 1.0\%)$				
	The following adverse events occurred in less than 1% of				
	patients: Syncope, convulsions, paralysis, facial palsy				
Pregnancy, puerperium	The following adverse events occurred in less than 1% of				
and perinatal conditions	patients: Unexpected pregnancy, sensation of pregnancy				
rsychiatric disorders	Nervousness (12%)				
	Decreased libido (6%)				
	Depression (2%)				
	Anorgasmia $(1-5\%)$				
	Insomina $(0.2 - 1.0\%)$ The following adverse event accurate in loss than $10/10^{-1}$				
	netions: Increased libide				
Donal and uninamy	Dycurio, urinery frequency (0.2 1.0%)				
disordors	Dysuna, unnary frequency (0.2 - 1.0%)				
Doproductivo system	Project swalling/tondormage (20/)				
and broast disordars	Dicasi Sweining/ienderness (5%)				
and breast disorders	v aginai discharge (570) Laukorrhoon (1.5%)				
	$\begin{array}{c} \text{Leukonnoca} \left(1 - 370\right) \\ \text{Delvic poin} \left(1 - 5\%\right) \end{array}$				
	reivic palli (1-3%)				

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SYSTEM ORGAN	EVENT				
CLASS					
	Vaginitis (1-5%)				
	Dysmenorrhea (2%)				
	Pruritus vulvae (1%)				
	Galactorrhea, bleeding requiring D&C, dyspareunia (0.2 -				
	1.0%)				
	The following adverse events occurred in less than 1% of				
	patients: Changes in breast size, breast lumps or nipple				
	bleeding, prevention of lactation, vaginal cysts, lack of return				
	to fertility, uterine hyperplasia				
Respiratory, thoracic	Dyspnea (0.2 - 1.0%)				
and mediastinal	The following adverse events occurred in less than 1% of				
disorders	patients: Asthma, hoarseness, pulmonary embolus				
Skin and subcutaneous	Acne, alopecia, rash (1%)				
tissue disorders	Hirsutism, pruritus (0.2 - 1%)				
	Hives (0.2 - 1.0%)				
	The following adverse events occurred in less than 1% of				
	patients: Melasma, chloasma, scleroderma, excessive				
	sweating, body odour, dry skin				
Vascular disorders	Hot flashes (1%)				
	The following adverse events occurred in less than 1% of				
	patients: Varicose veins, thrombophlebitis, deep vein				
	thrombosis				

Post-Market Adverse Drug Reactions

In post-marketing experience, there have been cases of osteoporosis including osteoporotic fractures reported in patients taking Medroxyprogesterone Acetate. Patient age ranged from 16 years to 48 years. Other adverse events reported during post-marketing experience, regardless of causality and frequency, are listed below. It should be noted that the nature of post-marketing surveillance makes it difficult to determine if a reported event was actually caused by Medroxyprogesterone Acetate.

Blood and lymphatic system disorders: hemolytic anemia, hemorrhagic disorder, sickle cell crisis, splenic infarction, thrombocytopenia, thrombotic thrombocytopenic purpura

Cardiac disorders: bradycardia, myocardial infarction, palpitations, pericarditis, possible exacerbation of prolonged QT interval syndrome (with fatal outcome), supraventricular tachycardia

Congenital and familial/genetic disorders: acute porphyria, in cases of failure of contraception: Trisomy 21, Trisomy 16, Turner's syndrome

Ear and labyrinth disorders: change in hearing, tinnitus, vertigo

Endocrine disorders: adrenal dysfunction NOS, Cushingoid, estrogen deficiency, hyperthyroidism, hypoglycemia, hypopituitarism, hypothyroidism, thyroiditis

Eye disorders: macular edema, optic ischemic neuropathy, optic neuritis, papilloedema, ptosis, retinal vein occlusion, vision loss, visual changes

Gastrointestinal disorders: acute pancreatitis, dysphagia, intestinal infarction, mouth ulceration, oral mucosal blistering, salivary gland enlargement

General disorders and administration site conditions: fatigue, injection site reactions (including swelling, rash, ulcer, necrosis, edema, infection, abscess), injections site pain/tenderness, injection site persistent atrophy/indentation/dimpling/scar, injection site nodule/lump, malaise, sudden infant death syndrome (exposure-in utero)

Hepatobiliary disorders: Cholangitis, cholelithiasis, gallbladder disorder, hepatitis, hepatomegaly, obstructive jaundice, hepatic failure (with fatal outcome)

Immune system disorders: anaphylactic reaction (with fatal outcome in rare cases), hypersensitivity

Infections and infestations: salpingitis, sepsis, vulval abscess

Investigations: coagulation Factor X decreased, decreased blood folate, decreased blood pressure, decreased estrogen, decreased testosterone, elevated blood creatinine, hypernatremia, hypokalemia, increased alanine aminotransferase, increased alkaline phosphatase, increased blood pressure, increased creatine phosphokinase, increased triglycerides, leukocytosis, weight decreased

Metabolism and nutrition disorders: cachexia, excessive thirst

Musculoskeletal, connective tissue and bone disorders: joint swelling, muscle weakness, myalgia, osteonecrosis

Neoplasms benign, malignant and unspecified: acute leukemia, benign breast neoplasm, benign hydatidiform mole, fibroadenoma of breast, Hodgkin's disease, kidney neoplasm, malignant melanoma, meningioma, neurofibroma, ovarian cancer, squamous cell carcinoma of the cervix, uterine leiomyoma

Nervous system disorders: amnesia, anosmia, ataxia, balance disorder, benign intracranial hypertension, cerebral hemorrhage, cerebral ischemia/infarct, cerebral venous thrombosis, cerebrovascular accident, confusion, dysarthria, dysgeusia, memory loss, migraine, myoclonus, Parkinsonism, seizures, speech disorder, stroke (with fatal outcome), third nerve palsy, transient ischemic attack, tremor

Pregnancy, peurperium and perinatal conditions: exposure-in-utero: abnormal genitalia, anencephaly, antepartum hemorrhage, blighted ovum, cleft palate, congenital adenomatoid malformation, congenital diaphragmatic hernia, congenital heart defects, congenital megacolon, ear malformation NOS, ectopic pregnancy, esophageal atresia, fetal hydrops, hydrocephalus, hypospadias, intrauterine growth retardation, limb deformity, microcephaly, missed abortion, polydactyly, polyhydramnios, prematurity, single umbilical artery, skull malformation, spina bifida, spontaneous abortion, stillbirth, Talipes, tracheoesophageal fistula

Psychiatric disorders: acute psychosis, agitation, anxiety, attention deficit/hyperactivity disorder, dysphemia, eating disorder, irritability, mood swings, paranoia, suicidality

Renal and urinary disorders: interstitial nephritis, nephrolithiasis, nephrotic syndrome, proteinuria, renal infarct, urinary retention

Reproductive system and breast disorders: cervical dysplasia, fibrocystic breast disease, menorrhagia, ovarian cyst, premature menopause, uterine cyst, vaginal dysplasia, vaginal mucosal blistering

Respiratory, thoracic and mediastinal disorders: acute respiratory distress syndrome, bronchospasm, epistaxis, laryngeal edema, laryngospasm, oropharyngeal swelling

Skin and subcutaneous tissue disorders: angioedema, erythema multiforme, erythema nodosum, facial edema, lipodystrophy acquired, porphyria aggravated

Vascular disorders: arterial thrombosis, embolism, Henoch-Schonlein purpura, postural hypotension, venous thrombosis (including rare cases with fatal outcome)

4.9 Overdose

Overdosage may result in a period of amenorrhea of a variable length and may be followed by irregular menses for several cycles. Very high doses of Medroxyprogesterone Acetate (500 mg daily or more) have been associated with corticoid-like activity and with Cushingoid symptoms (e.g. moon face and blood pressure elevation). There is no known therapy for overdosage.

5. PHARMACOLOGICAL PROPERTIES

5.1 Mechanism of Action

Medroxyprogesterone Acetate is a long-acting progestational steroid (progestogen) derived from a natural source (soybeans). Its long duration of action is a result of slow absorption from the injection site. Medroxyprogesterone Acetate does not contain estrogen.

For conception control, Medroxyprogesterone Acetate inhibits the secretion of gonadotropins which, in turn, prevents follicular maturation and ovulation, and results in endometrial thinning. Additional progestational effects that may contribute to the contraceptive effectiveness of Medroxyprogesterone Acetate include the transformation and maintenance of an endometrium hostile to implantation, and thickening of cervical mucus making sperm penetration of the cervix more difficult.

Medroxyprogesterone Acetate administered parenterally to women with adequate endogenous estrogen transforms proliferative endometrium into secretory endometrium.

Endometriosis is an estrogen-dependent disorder in women of reproductive age that is characterized by the presence of endometrial-like tissue (glands and stoma) outside the uterine lining. The putative mechanism of action of Medroxyprogesterone Acetate in the treatment of endometriosis is by inhibition of gonadotropin production, induction of decidualization followed by atrophy of endometriotic implants, prevention of follicular maturation and ovulation and decrease in circulating estrogen levels.

5.2 Pharmacodynamic Properties

CLINICAL TRIALS

Conception control

The contraceptive efficacy, safety and acceptability of Medroxyprogesterone Acetate given as a single intramuscular injection of 150 mg every 90 days has been evaluated in a multicentre study conducted by 54 investigators in the United States.

Protocol

A baseline interview, pelvic examination, weight measurement, blood pressure reading, laboratory study and Papanicolaou smear were carried out. The initial injection of Medroxyprogesterone Acetate was given toward the end of, or on the day immediately following, a menstrual period in all subjects. Monthly calendar cards were issued on which to record menstrual periods, instructions were given detailing possible side effects (amenorrhea, irregular bleeding), and appointments were made for follow-up and repeat injections in 3 months. At monthly time intervals, interviews were conducted and monthly calendar cards were collected. At 3-month intervals, subjects reported for repeat injections and body weight and laboratory test performance. At this time interviews were again conducted as to acceptance of therapy, side effects, and signs of pregnancy. Follow-up pelvic examinations, Pap smears and blood pressure measurements were performed 1 year after first injection (at the time of the fifth injection).

Number of Patients and Study Duration

Fifty-four investigators enrolled 3,905 patients into the study. Table 6 contains the number of patients completing at least the stated study month. For example 2,253 patients were in the study for 12 months or more; 827 patients were in the study for 36 months or more. The median study duration was 13 months. The ten-percentile was 3 months, the ninety-percentile 51 months, the minimum 1 month and the maximum 84 months. The total number of patient-months of experience on the drug was 82,384.

	TABLE 6								
Medroxyprog	esterone Acetate Eve	ery 90 Days]	Number of Pa Month	tients Com	pleting At				
	Study No. of Study No. of								
Study Month	No. of Patients	Month	Patients	Month	Patients				
0 - 1	3905	29	1068	57	305				
2	3670	30	1037	58	285				
3	3571	31	984	59	267				
4	3294	32	950	60	263				
5	3084	33	927	61	250				
6	3004	34	887	62	238				
7	2792	35	857	63	227				
8	2634	36	827	64	215				
9	2576	37	765	65	206				
10	2419	38	735	66	201				
11	2288	39	622	67	199				
12	2253	40	685	68	190				
13	2030	41	673	69	184				
14	1915	42	664	70	182				
15	1872	43	606	71	174				
16	1776	44	588	72	157				
17	1704	45	573	73	143				
18	1659	46	525	74	129				
19	1567	47	493	75	118				
20	1514	48	474	76	110				
21	1485	49	436	77	97				
22	1422	50	417	78	91				
23	1367	51	412	79	77				
24	1344	52	375	80	67				
25	1251	53	358	81	49				
26	1200	54	350	82	23				
27	1180	55	326	83	3				
28	1116	56	316	84	1				
Total Patient-Mo	nths Experience:	1			82.384				

DEPO-PROVERA Contraceptive Injection

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LPDDPA122024

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Patient Description

The median age of the patients was 26 years; 11.3 percent of the patients were age 19 years or less; 85.7 percent were age 20 through 39 years; 3.0 percent were age 40 years or greater.

Caucasians accounted for 54.7 percent of the patient group. The median number of months since last delivery or miscarriage was 6. The median gravida was 3. The median para was 3. 65.3 percent of the patients were abortus zero.

Efficacy Results

In total, 15 (0.38%) of the 3,905 patients dropped out of the study due to method failure (pregnancy). The 12-month cumulative dropout rate (dropouts per 100 women - life table technique) due to pregnancy was 0.32 with a standard error of 0.11.

The 12-month pregnancy rate, or failure rate, as calculated by the life table technique is 0.32 per 100 women. The 24-month failure rate is 0.44 per 100 women and the 36-month failure rate is 0.75 per 100 women. Table 7 summarizes cumulative dropout rates due to pregnancy according to the months of the study in which a patient dropped out due to method failure.

TABLE 7							
Med	Medroxyprogesterone Acetate Every 90 Days Dropouts/Failures (Pregnancy)						
Month	No. of Patients	Dropouts	Interval	Cumulative	Standard Error of		
	Entering		Rate	Rate	Cumulative Rate		
	Month						
3	3571	1	0.0003	0.0003	0.0003		
4	3294	2	0.0006	0.0009	0.0005		
6	3004	2	0.0007	0.0016	0.0007		
7	2792	1	0.0004	0.0019	0.0008		
9	2576	1	0.0004	0.0023	0.0009		
10	2419	1	0.0004	0.0027	0.0010		
12	2253	1	0.0004	0.0032	0.0011		
15	1872	1	0.0005	0.0037	0.0012		
23	1367	1	0.0007	0.0044	0.0014		
29	1068	1	0.0009	0.0053	0.0017		
33	927	2	0.0022	0.0075	0.0023		
39	722	1	0.0014	0.0089	0.0026		

Dropouts

Table 8 contains frequency distribution of dropouts by dropout reason. Listed are only those reasons found common to greater than 1.0 percent of the women entering the study.

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TABLE 8							
Medroxyprogesterone Acetate Every 90 Days-Reasons for Dropout							
Reasons	# Women	% of Total Women(n=3905)					
Study completed	1086	27.81					
Lost to follow-up	774	19.82					
Husband objects - inconvenient to come to clinic, to attempt to conceive, objects to expense, personal reasons, no longer requires contraception	568	14.55					
Bleeding	326	8.35					
Side effects (unspecified)	245	6.27					
Moved away	215	5.51					
Advice of clinic or private physician	126	3.23					
Amenorrhea	86	2.20					
Weight gain, excessive	78	2.00					
Unknown	68	1.74					
Hysterectomy, tubal ligation	61	1.56					
Headache	39	1.00					

Continuation Rate

The expected continuation rate for a specific point in time may be calculated by subtracting the dropout rate for all reasons (except protocol completed for the specific point in time), from 100. The life table expected continuation rates for selected points in time are as follows:

Month	Continuation Rate	Standard Error
12	56.13%	0.80%
24	38.82%	0.81%
36	28.97%	0.78%
48	23.50%	0.77%
60	19.71%	0.79%
72	16.71%	0.83%

Conclusion

Medroxyprogesterone Acetate given as a single intramuscular injection of 150 mg every 90 days has been assessed overall as a safe and effective method of contraception and is well tolerated by the majority of patients.

The following table shows the reported pregnancy rates for various forms of birth control, including no birth control. The reported rates represent the number of women out of 100 who would become pregnant during the first year of use.

Medroxyprogesterone Acetate Sterile Aqueous Suspension Reported Pregnancies per 100 Women per Year					
Method		Lowest expected	Typical		
Medroxy	progesterone Acetate	0.3	0.3		
Female st	terilization	0.2	0.4		
Male ster	ilization	0.1	0.15		
Oral Contraceptives (the pill)		0.1-0.5	3		
IUD Copper T 380A		0.8	3		
Condom		2	12		
Diaphragm		6	18		
Sponge women who have not had any children		6	18		
women who have had children		9	28		
Сар		6	18		
Withdrawal		4	18		
Periodic abstinence		1-9	20		
Spermicides		3	21		
Chance (no birth control)		85	85		

Endometriosis

There has been extensive clinical experience with the use of medroxyprogesterone acetate in the effective treatment of endometriosis, however there are no pivotal clinical trials with Medroxyprogesterone Acetate intramuscular formulation.

DETAILED PHARMACOLOGY

Medroxyprogesterone acetate (MPA) induces response in laboratory animals comparable to those caused by progesterone. It is more potent than progesterone and, when injected intramuscularly as a suspension, has a long duration of action. MPA induces glandular development in the endometrium, maintains pregnancy, delays parturition, inhibits ovulation and suppresses oestrus cycles. It is devoid of androgenic and estrogenic activity. In selected animal tests it has some adrenal corticoid-like activity, and in dogs, increases serum growth hormone levels.

Clinical Pharmacology

Medroxyprogesterone acetate has prolonged progestational effects when administered by intramuscular injection. MPA suppresses the secretion of pituitary gonadotropins which, in turn, prevents follicular maturation, producing long-term anovulation in the reproductive-aged woman.

Clinical studies have not shown signs and symptoms of a hypoestrogenic state in women using MPA as a contraceptive. This finding is supported by laboratory

measurements showing that circulating estrogen levels in medroxyprogesterone acetate-treated women are similar to those in the early follicular phase of the menstrual cycle. Cyclic patterns of estrogen levels reappear as MPA serum levels decline.

MPA suppresses the Leydig cell function in the male (i.e., suppresses endogenous testosterone production).

A single dose of 50 mg of parenteral MPA has the equivalent effect of 20 mg of parenteral progesterone given daily for 10 days in producing an optimal secretory change in an estrogen-primed endometrium. This steroid also produces typical progestational changes in the cervical mucus (inhibits ferning), increases the viscosity of cervical mucus thereby increasing the difficulty of sperm penetration of the cervical mucus, and increases the intermediate cell found in the maturation index of the vaginal epithelium.

It has been suggested that long-term use of MPA may indirectly decrease high density lipoprotein cholesterol (HDL-C) by decreasing the production of natural estrogen. The purported lowering of mean HDL-C levels in a group of 23 women receiving MPA for 1 year or more was attributed to the drug's suppression of estrogen production. It has been shown, however, that the natural circulating estrogen is not depressed below that of the early follicular phase concentrations after injection of MPA. Women who used MPA for contraception for 4.4 to 10.6 years had no additional suppression of estrogen beyond that observed following the first injection. Another study has shown that long-term use of MPA causes a moderate decrease in triglycerides, HDL cholesterol, HDL cholesterol/total cholesterol ratio and apolipoprotein A1. Total cholesterol, LDL cholesterol and apolipoprotein B were unaffected.

5.3 Pharmacokinetic Properties

pharmacokinetic	pharmacokinetic parameters in an adult women population						
	C	t _e (h)	AUC	Clearance	Volume of		

Table 0 Summary of modrovyprogestorone acetate suspension for injection's

	C _{max}	t½ (h)	AUC₀-∞	Clearance	Volume of distribution
Single 150 mg I.M.	1-7 ng/mL	≈ 1000	NA*	1600-4000 litres/day	20 ± 3 litres

* not available

Absorption: Following intramuscular administration, medroxyprogesterone acetate is slowly released from the injection site, resulting in low, but persistent levels of drug and drug-related materials in the circulation. On average, the time required to obtain a maximum concentration of medroxyprogesterone acetate in the circulation is between 4 and 20 days. Following a single 150 mg IM dose of Medroxyprogesterone Acetate, 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.

Circulating levels of medroxyprogesterone acetate can be detected for as long as 7 to 9 months. Increasing the injection volume of medroxyprogesterone acetate produces an increased rate of absorption and higher serum levels; however, extent of absorption is not affected.

Distribution:

Medroxyprogesterone acetate is approximately 90 to 95 percent protein bound. Volume of distribution is reported as 20 ± 3 litres. It crosses the blood-brain barrier and is secreted in breast milk.

Medroxyprogesterone acetate binding occurs primarily to serum albumin; no binding of medroxyprogesterone acetate occurs with sex hormone-binding globulin (SHBG).

Metabolism:

The principal metabolite of medroxyprogesterone acetate that has been identified is a 6α -methyl- 6β , 17α , 21-trihydroxy-4-pregnene-3, 20-dione-17-acetate, which is excreted in the urine. Numerous other metabolites of medroxyprogesterone acetate have been reported; however, these have not been well quantified. Metabolism may be influenced by the route of administration as well as the physical state of the drug.

Excretion:

The terminal half-life of medroxyprogesterone acetate is approximately 30 to 60 hours. The elimination half-life following intramuscular administration is approximately 6 weeks, reflecting the prolonged absorption of the drug from the intramuscular injection site. The levels then decrease exponentially until they become undetectable (<100 pg/mL) between 120 to 200 days following injection. Plasma clearance is reported as approximately 1600-4000 litres per day. Medroxyprogesterone acetate (as the glucuronide conjugate) is primarily excreted in the feces, via biliary secretion.

Special Populations and Conditions

Hepatic Insufficiency:

The effect of hepatic disease on the pharmacokinetics of Medroxyprogesterone Acetate is unknown. However, medroxyprogesterone acetate is almost exclusively eliminated by hepatic metabolism and steroid hormones may be poorly metabolized in patients with severe liver insufficiency, (see section 4.3).

Renal Insufficiency:

The effect of renal disease on the pharmacokinetics of Medroxyprogesterone Acetate is unknown.

6. NONCLINICAL PROPERTIES

6.1 Animal Toxicology or Pharmacology

Chronic Toxicity

Rat, Mouse:

In 18-month studies, mice given two, 100 or 200 mg/kg (3X, 150X or 300X the human dose) did not show treatment-related neoplasia; even the massive doses produced only minimal toxicity. Rats given two, 100 or 200 mg/kg in 24-month carcinogenicity studies did not show serious adverse effects.

Beagle Dog:

Two 7-year toxicity studies in Beagle dogs were conducted using medroxyprogesterone acetate (MPA) doses ranging from 1X to 25X the human contraceptive dose. MPA (and progesterone) caused anestrus, obesity, increased production of growth hormone, acromegaly, impaired carbohydrate metabolism, multiple endocrinopathy, glomerulopathy, and marked stimulation of the mammary gland resulting in hyperplasia and neoplasia. These tumours were not new histologic types. Progestogen treatment appeared to potentiate the growth of the same types of tumours that would be expected in control dogs, usually the complex or "mixed" type. Mammary carcinomas were found in MPA-treated dogs in both studies and in progesterone-treated dogs in the second study.

The Committee on Safety of Medicines (United Kingdom) and three international panels of experts have reviewed the evidence and concluded that the Beagle bitch is not an appropriate model for mammary carcinogenicity testing of progesterone derivatives such as Medroxyprogesterone Acetate.

Because of differences between the Beagle bitch and the human female in the sensitivity to and the metabolism of progestogens, positive carcinogenicity studies in the Beagle bitch can no longer be considered as indicative of significant hazard to women.

Rhesus Monkey:

In a 10-year toxicology study of medroxyprogesterone acetate (MPA) in Rhesus monkeys, MPA was administered at 1X, 10X, and 50X the human contraceptive dose. Mammary nodules diagnosed as focal nodular hyperplasia of the mammary

gland were found in 3 of the 7 survivors in the 10X group. The lesions showed no signs of malignancy. Because these lesions were both non-progressive and non-invasive and because many lesions of this type are known to appear and then regress, it was concluded that the occurrence of this non-malignant mammary lesion in three MPA-treated monkeys poses no potential threat of breast cancer to women using Medroxyprogesterone Acetate as a contraceptive.

Lesions diagnosed as endometrial carcinoma were found in 2 of the 12 survivors in the 50X group. These 2 were replacements - 1 was treated for 111 months and the other for 125 months of the 130-month study (based on 28-day months). The lesions were remarkably similar in cell morphology to epithelial plaques which occur in monkeys but not in humans. It is possible that MPA provided a uterine environment that allowed proliferation of an epithelial cell type present in the endometrium of the Rhesus monkey and other non-human primates. Under the influence of progesterone, this epithelial cell type responds to implantation by proliferating and forming an epithelial plaque. The cells comprising this plaque are readily distinguished from normal epithelial cells of the endometrium. Under progesterone or progestogen influence, this epithelial cell type also proliferates and forms a plaque in response to experimentally induced endometrial trauma. Results of electron microscopic studies indicated that the neoplasms were malignant and were epithelial and not mesenchymal in origin, and thus of a type not stimulated by progestogens in women. It has been concluded that, regardless of the cause of these lesions, their occurrence does not signify that Medroxyprogesterone Acetate is carcinogenic in women using it as a contraceptive.

Mutagenicity

In 3 different mutagenicity tests, medroxyprogesterone acetate (MPA) showed no mutagenic properties. MPA was not mutagenic in the Salmonella/Microsome Test (Ames test), it did not induce single-strand breaks in DNA in a DNA damage/alkaline elution assay, and in the micronucleus test MPA at 100X the human contraceptive dose did not induce micronuclei (i.e., it was not clastogenic and did not cause abnormal distribution of chromosomal material).

Reproduction and Teratology

Studies have not demonstrated any impairment of fertility in first or second generation studies. In rats, medroxyprogesterone acetate (MPA) may have some effect on genital systems, but standard teratologic techniques have shown no effects on nongenital systems. MPA produced cleft palates in rabbits, attributed to that particular species' sensitivity to the drug's glucocorticoid activity.

7. **DESCRIPTION**

Medroxyprogesterone Acetate 150 mg/mL Sterile Aqueous Suspension (SAS) is asuspension for injection. It is available in a pre-filled disposable syringe and in

different vial presentations. A commonly used proprietary name for Medroxyprogesterone Acetate 150 mg/mL SAS is Depo-Provera®.

8. PHARMACEUTICAL PARTICULARS

8.1 Incompatibilities

Medroxyprogesterone Acetate should not be mixed with any other agent.

8.2 Shelf-life

Glass Vial - 48 Months.

Glass Syringe - 60 Months.

Please refer to the pack for the expiry of a specific lot.

8.3 Packaging Information

Medroxyprogesterone Acetate Contraceptive Injection (medroxyprogesterone acetate sterile aqueous suspension) is available as:

1 ml glass vial (as 150 mg/ml) made up of hydrolytic glass class I and butyl rubber stopper - 1 x 1 ml vial, 25×1 ml vial.

1 ml single use-pre-filled disposable syringe (as 150 mg/ml) made up of: Barrel: Hydrolytic glass class I, Stopper: Butyl rubber, Tip Cap: Butyl rubber.

Pre-filled disposable syringe with separate needle.

8.4 Storage and Handling Instructions

Glass Vial/Glass Syringe - Store below 30°C, Protect from light.

MPA injectable suspension should be vigorously shaken just before use to ensure that the dose being administered represent a uniform suspension.

9. PATIENT COUNSELLING INFORMATION

• 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 continues, without other therapy being required.

• Counsel patients about the possible increased risk of breast cancer in women who use Depo-Provera.

• 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.

• Counsel patients to use a back-up method or alternative method of contraception when enzyme inducers are used with Depo-Provera CI.

10. DETAILS OF MANUFACTURER

M/s. Pfizer Manufacturing Belgium NV, Rijksweg 12, B-2870 Puurs, Belgium.

11. DETAILS OF PERMISSION OR LICENSE NUMBER WITH DATE

No objection letter dt 6 Jan 1998 (File No. 12-48/91-DC).

12. DATE OF REVISION

December 2024