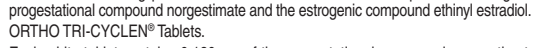




Patients should be counseled that this product does not protect against HIV infection (AIDS) and other sexually transmitted diseases.



Patients should be counseled that this product does not protect against HIV infection (AIDS) and other sexually transmitted diseases.

DESCRIPTION
Each of the following products is a combination oral contraceptive containing the progestational component norgestimate and the estrogenic compound ethinyl estradiol.

ORTHO TRI-CYCLEN® TABLETS
Each white tablet contains 0.180 mg of the progestational component, norgestimate (18,19-Dinor-17-preg-4-en-20-yn-3-one, 17-(acetyloxy)-13-ethyl-oxime, (17 α)(+)), and 0.035 mg of the estrogenic compound, ethinyl estradiol (18-nor-17 α -pregna-1,3,5(10)-trien-20-yn-3,17-diol). Inactive ingredients include carnauba wax, croscarmellose sodium, hypromellose, lactose, magnesium stearate, microcrystalline cellulose, polyethylene glycol, purified water and titanium dioxide.

Each light blue tablet contains 0.215 mg of the progestational component norgestimate (18,19-Dinor-17-preg-4-en-20-yn-3-one, 17-(acetyloxy)-13-ethyl-oxime, (17 α)(+)) and 0.035 mg of the estrogenic compound, ethinyl estradiol (18-nor-17 α -pregna-1,3,5(10)-trien-20-yn-3,17-diol). Inactive ingredients include FD & C Blue No. 2 Aluminum Lake, carnauba wax, croscarmellose sodium, hypromellose, lactose, magnesium stearate, microcrystalline cellulose, polyethylene glycol, purified water and titanium dioxide.

Each dark green tablet contains only inert ingredients, as follows: FD & C Blue No. 2 Aluminum Lake, ferric oxide, hypromellose, lactose, magnesium stearate, polyethylene glycol, pregelatinized corn starch, purified water, talc and titanium dioxide.

ORTHO-CYCLEN® TABLETS
Each white tablet contains 0.250 mg of the progestational component norgestimate (18,19-Dinor-17-preg-4-en-20-yn-3-one, 17-(acetyloxy)-13-ethyl-oxime, (17 α)(+)) and 0.035 mg of the estrogenic compound, ethinyl estradiol (18-nor-17 α -pregna-1,3,5(10)-trien-20-yn-3,17-diol). Inactive ingredients include FD & C Blue No. 2 Aluminum Lake, carnauba wax, croscarmellose sodium, hypromellose, lactose, magnesium stearate, microcrystalline cellulose, polyethylene glycol, purified water and titanium dioxide.

Each dark green tablet contains only inert ingredients, as follows: FD & C Blue No. 2 Aluminum Lake, ferric oxide, hypromellose, lactose, magnesium stearate, polyethylene glycol, pregelatinized corn starch, purified water, talc and titanium dioxide.

Chemical Structures:
Norgestimate: CC(=O)OC1=CC=C2C3=C1OC4=CC(=O)OC4=C2C3
Ethinyl Estradiol: CC1=CC=C2C3=CC(=O)OC3=CC=C1C#C

CLINICAL PHARMACOLOGY
Oral Contraception
Combination oral contraceptives act by suppression of gonadotropins. Although the primary mechanism of this action is inhibition of ovulation, other alterations include changes in the cervical mucus (which reduce the difficulty of sperm entry into the uterus) and the endometrium (which reduce the likelihood of implantation).

Receptor binding studies, as well as studies in animals and humans, have shown that norgestimate and 17-deacetyl norgestimate, the major serum metabolite, combine high progesterone binding activity with minimal intrinsic androgenicity.²⁵ Norgestimate, in combination with ethinyl estradiol, does not counteract the estrogen-induced increases in sex hormone binding globulin (SHBG), resulting in lower serum testosterone.^{26,27,28}

Acne
Acne is a skin condition with a multifactorial etiology, including androgen stimulation of sebaceous production. While the combination of ethinyl estradiol and norgestimate increases serum binding globulin (SHBG) and decreases free testosterone, the relationship between these changes and decrease in the severity of facial acne in otherwise healthy women with this skin condition has not been established.

PHARMACOKINETICS
Absorption
Norgestimate (NGM) and ethinyl estradiol (EE) are rapidly absorbed following oral administration. Norgestimate is rapidly and completely metabolized by first-pass (intestinal and/or hepatic) mechanisms to norgestimate (NGM) and norgestrel (NG), which are the major active metabolites of norgestimate.

Peak serum concentrations of NGM and EE are generally reached by 2 hours after administration of ORTHO-CYCLEN® or ORTHO TRI-CYCLEN®. Accumulation following multiple dosing of the 250 µg NGM / 35 µg dose is approximately 2-fold for NGM and EE compared with single dose administration. The pharmacokinetics of NGM is dose proportional following NGM doses of 180 µg to 250 µg. Steady-state concentration of EE is achieved by Day 7 of each dosing cycle. Steady-state concentrations of NGM and EE are achieved by Day 21. Non-linear accumulation (approximately 8 fold) of norgestrel is observed as a result of high affinity binding to SHBG (sex hormone-binding globulin), which limits its biological activity.

TABLE I. Summary of norgestimate, norgestrel and ethinyl estradiol pharmacokinetic parameters.

Mean (SD) Pharmacokinetic Parameters of ORTHO TRI-CYCLEN During a Three Cycle Study							
Analyte	Cycle	Day	C _{max}	t _{max} (h)	AUC _{0-24h}	t _{1/2} (h)	
NGM	1	7	1.80 (0.46)	1.42 (0.73)	15.0 (3.88)	NC	
		14	2.12 (0.56)	1.21 (0.26)	16.1 (4.97)	NC	
		21	2.66 (0.47)	1.29 (0.26)	21.4 (3.46)	22.3 (6.54)	
	NG	3	7	1.94 (0.82)	3.15 (4.05)	34.8 (16.5)	NC
			14	3.00 (1.04)	2.21 (0.23)	55.2 (23.5)	NC
			21	3.66 (1.15)	2.58 (2.97)	69.3 (23.8)	40.2 (15.4)
EE	3	7	124 (39.5)	1.27 (0.26)	1130 (420)	NC	
		14	128 (38.4)	1.32 (0.25)	1130 (324)	NC	
		21	126 (34.7)	1.31 (0.56)	1090 (359)	15.9 (4.39)	

Mean (SD) Pharmacokinetic Parameters of ORTHO-CYCLEN During a Three Cycle Study						
Analyte	Cycle	Day	C _{max}	t _{max} (h)	AUC _{0-24h}	t _{1/2} (h)
NGM	1	7	1.78 (0.397)	1.19 (0.250)	9.90 (3.25)	18.4 (5.91)
		3	2.19 (0.655)	1.43 (0.680)	18.1 (5.53)	24.9 (9.04)
		21	2.65 (1.11)	1.67 (1.32)	48.2 (20.5)	45.0 (20.4)
EE	1	7	92.2 (24.5)	1.2 (0.26)	629 (138)	10.1 (1.90)
		3	147 (41.5)	1.13 (0.23)	1210 (294)	15.0 (2.36)

C_{max} = peak serum concentration, t_{max} = time to reach peak serum concentration, AUC_{0-24h} = area under serum concentration vs time curve from 0 to 24 hours, t_{1/2} = elimination half-life. NC = not calculated.

NGM and NG: C_{max} = ng/mL, AUC_{0-24h} = ng•h/mL
EE: C_{max} = pg/mL, AUC_{0-24h} = pg•h/mL

The effect of food on the pharmacokinetics of ORTHO-CYCLEN or ORTHO TRI-CYCLEN has not been studied.

Distribution
Norgestimate and norgestrel are highly bound (>97%) to serum proteins. Norgestrel is bound to albumin and not to SHBG, while norgestimate is bound primarily to SHBG. Ethinyl estradiol is extensively bound (> 97%) to serum albumin and induces an increase in the serum concentrations of SHBG.

Metabolism
Norgestimate is extensively metabolized by first-pass mechanisms in the gastrointestinal tract and/or liver. Norgestimate's primary active metabolite is norgestimate. Subsequent hepatic metabolism of norgestimate occurs and metabolites include norgestrel, which is also active and various hydroxylated and conjugated metabolites. Ethinyl estradiol is also metabolized to various hydroxylated metabolites and their glucuronide and sulfate conjugates.

Excretion
The metabolites of norgestimate and ethinyl estradiol are eliminated by renal and fecal pathways. Following administration of ¹⁴C-norgestimate, 47% (45-49%) and 37% (16-49%) of the administered radioactivity was eliminated in the urine and feces, respectively. Unchanged norgestimate was not detected in the urine. In addition to 17-deacetyl norgestimate, a number of metabolites of norgestimate have been identified in human urine following administration of radiolabeled norgestimate. These include 18, 19-Dinor-17-preg-4-en-20-yn-3-one, 17-dihydroxy-13-ethyl-(17 α)(+); 18,19-Dinor-5 β -17-pregnan-20-yn-3 α ,17 β -dihydroxy-13-ethyl-(17 α), various hydroxylated metabolites and conjugates of these metabolites.

Special Populations
The effect of body weight, body surface area or age on the pharmacokinetics of ORTHO-CYCLEN® or ORTHO TRI-CYCLEN® have not been studied.

Hepatic Impairment
The effects of hepatic impairment on the pharmacokinetics of ORTHO-CYCLEN® or ORTHO TRI-CYCLEN® have not been studied. However, steroid hormones may be poorly metabolized in women with impaired liver function (see PRECAUTIONS).

Renal Impairment
The effects of renal impairment on the pharmacokinetics of ORTHO-CYCLEN® or ORTHO TRI-CYCLEN® have not been studied.

Drug-Drug Interactions
No formal drug-drug interaction studies were conducted with ORTHO-CYCLEN® or ORTHO TRI-CYCLEN®. Interactions between contraceptive steroids and other drugs have been reported in the literature (see PRECAUTIONS).

Although norgestromin and its metabolites inhibit a variety of P450 enzymes in human liver microsomes, under the recommended dosing regimen, the *in vivo* concentrations of norgestromin and its metabolites, even at the peak serum levels, are relatively low compared to the inhibitory constant (K_i).

INDICATIONS AND USAGE
ORTHO-CYCLEN® and ORTHO TRI-CYCLEN® TABLETS are indicated for the prevention of pregnancy in women who elect to use oral contraceptives as a method of contraception.

ORTHO TRI-CYCLEN is indicated for the treatment of moderate acne vulgaris in females at least 15 years of age, who have no known contraindications to oral contraceptive therapy and have achieved menarche. ORTHO TRI-CYCLEN should be used for the treatment of acne only if the patient desires an oral contraceptive for birth control.

Oral contraceptives are highly effective for pregnancy prevention. Table II lists the typical pregnancy rates for users of combination oral contraceptives and other methods of contraception. The efficacy of these contraceptive methods, except sterilization, the IUD, and the Norplant System, depends upon the reliability with which they are used. Correct and consistent use of methods can result in lower failure rates.

TABLE II. Percentage of Women Experiencing an Unintended Pregnancy During the First Year of Typical Use and the First Year of Perfect Use of Contraception and the First Year of Typical Use of Contraception.

Method	% of Women Experiencing an Unintended Pregnancy with the First Year of Use	% of Women Continuing Use at One Year ²	
(1)	(2)	(3)	(4)
Chancex ³	85	85	
Spermicides ⁵	26	6	40
Periodic abstinence ⁶	25	9	63
Coitus interruptus ⁷			
Ovulation Method ⁸		3	
Sympto-Thermal ⁹		2	
Post-Ovulation ¹⁰		1	
Cap ¹¹			
Parous Women	40	26	42
Nulliparous Women	20	9	56
Sponge			
Parous Women	40	20	42
Nulliparous Women	20	9	56
Diaphragm ¹²	20	6	56
Condom ¹³	19	4	
Female (Rhythm) ¹⁴	21	5	56
Male ¹⁵	14	3	61
Pill ¹⁶	5	0.5	71
Progestin Only			
Combined	0.1		
IUD			
Progestone T	2.0	1.5	81
Copper T380A	0.8	0.6	78
NG	0.1		
Diaphragm-Provera	0.3	0.3	80
Norplant and Norplant-2	0.05	0.05	88
Female Sterilization	0.5	0.5	100
Male Sterilization	0.15	0.10	100

Hatcher et al, 1996, Ref. #1.

Emergency contraceptive pills: Treatment initiated within 72 hours after unprotected intercourse reduces the risk of pregnancy by at least 75%.³

Lactational Amenorrhea Method: LAM is highly effective, temporary method of contraception.⁴

Source: Trussell J, Contraceptive efficacy. In Hatcher RA, Trussell J, Stewart F, Cates W, Stewart GK, Kowal D, Guertl F, *Contraceptive Technology: Seventeenth Revised Edition*. New York, NY: Irving Publishers, 1998.

¹ Among typical couples who initiate use of a method (not necessarily for the first time), the percentage who experience an accidental pregnancy during the first year if they do not stop use for any other reason.

² Among couples who initiate use of a method (not necessarily for the first time) and who use it perfectly (both consistently and correctly), the percentage who experience an accidental pregnancy during the first year if they do not stop use for any other reason.

³ Among couples attempting to avoid pregnancy, the percentage who continue to use a method for one year.

⁴ The percents becoming pregnant in columns (2) and (3) are based on data from populations where contraception is not used and from women who cease using contraception in order to become pregnant. Among such populations, about 89% become pregnant within one year.

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ORTHO-CYCLEN® TABLETS
(norgestimate/ethinyl estradiol)

gathered in the 1970's.¹⁷ Current clinical recommendation involves the use of lower estrogen dose formulations and a careful consideration of risk factors. In 1989, the Family and Maternal Health Drugs Advisory Committee was asked to review the use of oral contraceptives in women 40 years of age and over. The Committee concluded that although cardiovascular disease risks may be increased with oral contraceptive use after age 40 in healthy non-smoking women (even with the newer low-dose formulations), there are also potential health benefits associated with pregnancy in older women and with the alternative surgical and medical procedures which may be necessary if such women do not have access to effective and acceptable means of contraception. The Committee recommended that the benefits of low-dose oral contraceptive use by healthy non-smoking women over 40 may outweigh the possible risks.

Of course, older women, as all women, who take oral contraceptives, should take an oral contraceptive which contains the least amount of estrogen and progestogen that is compatible with a low failure rate and individual patient needs.

Table IV. Annual Number of Birth-Related and Method-Related Deaths Associated With Control of Fertility Per 100,000 Non-Sterile Women, by Fertility Control Method According to Age

Method of control and outcome	15-19	20-24	25-29	30-34	35-39	40-44
No fertility control methods*	7.0	7.4	9.1	14.8	25.7	28.2
Oral contraceptives non-smoker [†]	0.3	0.5	0.9	1.9	3.8	31.6
Oral contraceptives smoker [†]	2.2	3.4	6.6	13.5	51.1	117.2
IUD**	0.8	0.8	1.0	1.0	1.4	1.4
Condom ^{††}	1.1	1.6	0.7	0.2	0.3	0.4
Diaphragm/spermicide ^{††}	1.9	1.2	1.2	1.3	2.2	2.8
Periodic abstinence ^{†††}	2.5	1.6	1.6	1.7	2.9	3.6

*Deaths are birth-related
†Deaths are method-related
††Adapted from H.W. Ory, ref. #35.

3. Carcinoma of the Reproductive Organs and Breasts
Numerous epidemiological studies have been performed on the incidence of breast, endometrial, ovarian, and cervical cancer in women using oral contraceptives. The risk of having breast cancer diagnosed may be slightly increased among current and recent users of combination oral contraceptives (COCs). However, this excess risk appears to decrease over time after COC discontinuation and by 10 years after cessation the increased risk disappears. Some studies report an increased risk with duration of use while other studies do not and no consistent relationships have been found with dose or type of steroid. Some studies have found a small increase in risk for women who first use COCs before age 20. Most studies show a similar pattern of risk for COCs regardless of a woman's reproductive history or her family breast cancer history.

Breast cancers diagnosed in current or previous oral contraceptive users tend to be less clinically advanced than nonusers. Women who currently have or have had breast cancer should not use oral contraceptives because breast cancer is usually a hormonally-sensitive tumor.

Some studies suggest that oral contraceptive use has been associated with an increase in the risk of cervical intraepithelial neoplasia in some populations of women.^{36,37} However, there continues to be controversy about the extent to which such findings may be due to differences in sexual behavior and other factors. In spite of many studies of the relationship between oral contraceptive use and breast and cervical cancers, a cause-and-effect relationship has not been established.

4. Hepatic Neoplasia
Benign hepatic adenomas are associated with oral contraceptive use, although the incidence of hepatic neoplasms is rare in the United States. Intrahepatic adenomas have been estimated the attributable risk to be in the range of 3.3 cases/100,000 for users, a risk that increases after four or more years of use especially with oral contraceptives of higher dose.³⁸ Rupture of benign, hepatic adenomas may cause death through intra-abdominal hemorrhage.^{39,40}

Studies from Britain have shown an increased risk of developing hepatocellular carcinoma in long-term (8+ years) oral contraceptive users. However, these studies are extremely rare in the U.S. and the attributable risk (the excess incidence) of liver cancers in oral contraceptive users approaches less than one per million users.

5. Ocular Lesions
There have been clinical case reports of retinal thrombosis associated with the use of oral contraceptives. Oral contraceptives should be discontinued if there is unexplained partial or complete loss of vision; onset of proptosis or diplopia; papilledema; or retinal vascular lesions. If appropriate diagnostic and therapeutic measures should be undertaken immediately.

6. Oral Contraceptive Use Before or During Early Pregnancy
Extensive epidemiological studies have revealed no increased risk of birth defects in women who have used oral contraceptives prior to pregnancy.^{40,41} The majority of recent studies also do not indicate a teratogenic effect, particularly in so far as cardiac anomalies and limb reduction defects are concerned.^{35,38,49} When taken inadvertently during early pregnancy:

The administration of oral contraceptives to induce withdrawal bleeding should not be used as a test for pregnancy. Oral contraceptives should not be used during pregnancy to treat threatened or habitual abortion.

It is recommended that for any patient who has missed two consecutive periods, pregnancy should be ruled out. If the patient has not adhered to the prescribed schedule, the possibility of pregnancy should be considered at the time of the first missed period. Oral contraceptive use should be discontinued if pregnancy is confirmed.

7. Gallbladder Disease
Earlier studies have reported an increased lifetime relative risk of gallbladder surgery in users of oral contraceptives and estrogens.^{50,51} More recent studies, however, have shown that the relative risk of developing gallbladder disease among oral contraceptive users may be minimal.^{50,52} The recent findings of minimal risk may be due to the use of oral contraceptive formulations containing lower hormonal doses of estrogens and progestogens.

8. Carbohydrate and Lipid Metabolic Effects
Oral contraceptives have been shown to cause a decrease in glucose tolerance in a significant percentage of users.¹⁷ This effect has been shown to be directly related to estrogen dose.⁵³ Progesterons increase insulin secretion and create insulin resistance, this effect varying with different progestational agents.^{17,48} However, in the non-diabetic woman, oral contraceptives appear to have no effect on fasting glucose.⁵⁴ Because glucose intolerance is a predisposing condition in many women in particular should be carefully monitored while taking oral contraceptives.

A small proportion of women will have persistent hypertriglyceridemia while on the pill. As discussed earlier (see WARNINGS 1a and 1d), changes in serum triglycerides and lipoprotein levels have been reported in oral contraceptive users.

In clinical studies with ORTHO-CYCLEN® there were no clinically significant changes in fasting blood glucose levels. No statistically significant changes in mean fasting blood glucose levels were observed over 24 cycles of use. Glucose tolerance tests showed minimal, clinically insignificant changes from baseline to cycles 3, 12, and 24.

In clinical studies with ORTHO TRI-CYCLEN® there were no clinically significant changes in fasting blood glucose levels. Minimal statistically significant changes were noted in glucose levels over 24 cycles of use. Glucose tolerance tests showed no clinically significant changes from baseline to cycles 3, 12, and 24.

9. Elevated Blood Pressure
Women with significant hypertension should not be started on hormonal contraceptives. It is recommended that women with hypertension and on oral contraceptives⁵⁵ and this increase is more likely in older contraceptive users⁵⁶ and with extended duration of use.⁵¹ Data from the Royal College of General Practitioners⁵⁷ and subsequent randomized trials have shown that the incidence of hypertension increases with increasing progestational activity.

Women with a history of hypertension or hypertension-related diseases, or renal disease, should be encouraged to use another method of contraception. If women elect to use oral contraceptives, they should be monitored closely and if significant elevation of blood pressure occurs, oral contraceptives should be discontinued. For most women, elevated blood pressure will return to normal after stopping oral contraceptives, and there is no difference in the occurrence of hypertension between former and never users.⁵⁸ It should be noted that in two separate large clinical trials (N=333 and N=104) no statistically significant changes in mean blood pressure were observed with ORTHO-CYCLEN®.

10. Headache
The onset or exacerbation of migraine or development of headache with a new pattern which is recurrent, persistent or severe requires discontinuation of oral contraceptives and evaluation of the cause.

11. Bleeding Irregularities
Breakthrough bleeding and spotting are sometimes encountered in patients on oral contraceptives, especially during the first three months of use. Non-hormonal causes should be considered and adequate diagnostic measures taken to rule out malignancy or pregnancy in the event of breakthrough bleeding, as in the case of any abnormal vaginal bleeding. If pathology has been excluded, time or a change to another formulation may solve the problem. In the event of amenorrhea, pregnancy should be ruled out.

Some women may encounter post-pill amenorrhea or oligomenorrhea, especially when continuing use of oral contraceptives is discontinued. If amenorrhea persists for more than 3 months after discontinuation of use, pregnancy should be ruled out.

12. Ectopic Pregnancy
Ectopic as well as intrauterine pregnancy may occur in contraceptive failures.

PRECAUTIONS
1. General
Patients should be counseled that this product does not protect against HIV infection (AIDS) and other sexually transmitted diseases.

2. Physical Examination and Follow Up
It is good medical practice for all women to have annual history and physical examinations, including women using oral contraceptives. The physical examination, however, may be deferred until after initiation of oral contraceptives if requested by the woman and judged appropriate by the clinician. The physical examination should include special reference to blood pressure, breasts, abdomen and pelvic organs, including cervical cytology, and relevant laboratory tests. In case of undiagnosed, persistent or recurrent abnormal vaginal bleeding, appropriate measures should be conducted to rule out malignancy. Women with a strong family history of breast cancer or who have breast nodules should be monitored with particular care.

3. Lipid Disorders
Women who are being treated for hyperlipidemias should be followed closely if they elect to use oral contraceptives. Some studies suggest that oral contraceptives may elevate LDL levels and may render the control of hyperlipidemias more difficult.

4. Liver Function
If jaundice develops in any woman receiving such drugs, the medication should be discontinued. Steroid hormones may be poorly metabolized in patients with impaired liver function.

5. Fluid Retention
Oral contraceptives may cause some degree of fluid retention. They should be prescribed with caution, and only with careful monitoring, in patients with conditions which might be aggravated by fluid retention.

6. Emotional Disorders
Women with a history of depression should be carefully observed and the drug discontinued if depression recurs to a serious degree.

7. Contact Lenses
Contact lens wearers who develop visual changes or changes in lens tolerance should be assessed by an ophthalmologist.

8. Drug Interactions
Changes in contraceptive effectiveness associated with co-administration of other products
Contraceptive effectiveness may be reduced when hormonal contraceptives are co-administered with antibiotics, anticonvulsants, and other drugs that increase the metabolic clearance of oral contraceptives. Decreased plasma levels, possibly by inhibition of conjugation, CYP 3A4 inhibitors such as itraconazole or ketoconazole may increase plasma hormone levels.

Changes in plasma levels of co-administered drugs
Combination hormonal contraceptives containing some synthetic estrogens (e.g., ethinyl estradiol) may inhibit the metabolism of other compounds. Increased plasma concentrations of cyclosporine, prednisone, and theophylline have been reported during the concurrent administration of oral contraceptives. Decreased plasma concentrations of acetaminophen and increased clearance of temazepam, salicylic acid, morphine and clofibrate acid, due to induction of conjugation, have been noted when these drugs were administered with oral contraceptives.

Combined hormonal contraceptives have been shown to significantly decrease plasma concentrations of lamotrigine when co-administered due to induction of lamotrigine glucuronidation.⁵⁹ This effect is not observed with progestin-only contraceptives. A dose-related association has been observed between the amount of estrogen and progestogen in oral contraceptives and the risk of vascular disease.³¹⁻³³ A decline in serum high density lipoproteins (HDL) has been reported with many progestational agents.^{16,18} A decline in serum high density lipoproteins has been associated with an increased incidence of ischemic heart disease. Because estrogens increase total cholesterol, the net effect of an oral contraceptive depends on a balance achieved between doses of estrogen and progestogen and the activity of the progestogen used in the formulation. The activity and amount of both hormones should be considered in the choice of an oral contraceptive.

Minimizing exposure to estrogen and progestogen is in keeping with good principles of therapeutics. For any particular estrogen/progestogen combination, the dosage regimen prescribed should be one which contains the least amount of estrogen and progestogen that is compatible with a low failure rate and the needs of the individual patient. New acceptors of oral contraceptive agents should be started on preparations containing the lowest estrogen content which is judged appropriate for the individual patient.

e. Persistence of Risk of Vascular Disease
There are two studies which have shown persistence of risk of vascular disease for ever-users of oral contraceptives. In a study in the United States, the risk of myocardial infarction in women who had used oral contraceptives for five or more years, but this increased risk was not demonstrated in other groups.¹⁶ In another study in Great Britain, the risk of developing cerebrovascular disease persisted for at least 6 years after discontinuation of oral contraceptives, although this excess risk was very small. However, both studies were performed with oral contraceptive formulations containing 50 micrograms or higher of estrogens.

2. Estimates of Mortality From Contraceptive Use
One study gathered data from a variety of sources which have estimated the mortality rate associated with different methods of contraception at different ages (Table V). These estimates include the combined risk of death associated with contraceptive methods plus the risk attributable to pregnancy in the event of method failure. Each method of contraception has its specific benefits and risks. The study concluded that with the exception of oral contraceptives for 35 and older who smoke, and 40 and older who do not smoke, mortality associated with all methods of birth control is low and below that associated with childbirth. The observation of an increase in risk of mortality with age for oral contraceptive users is based on data

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(norgestimate/ethinyl estradiol)

gathered in the 1970's.¹⁷ Current clinical recommendation involves the use of lower estrogen dose formulations and a careful consideration of risk factors. In 1989, the Family and Maternal Health Drugs Advisory Committee was asked to review the use of oral contraceptives in women 40 years of age and over. The Committee concluded that although cardiovascular disease risks may be increased with oral contraceptive use after age 40 in healthy non-smoking women (even with the newer low-dose formulations), there are also potential health benefits associated with pregnancy in older women and with the alternative surgical and medical procedures which may be necessary if such women do not have access to effective and acceptable means of contraception. The Committee recommended that the benefits of low-dose oral contraceptive use by healthy non-smoking women over 40 may outweigh the possible risks.

Of course, older women, as all women, who take oral contraceptives, should take an oral contraceptive which contains the least amount of estrogen and progestogen that is compatible with a low failure rate and individual patient needs.

Table IV. Annual Number of Birth-Related and Method-Related Deaths Associated With Control of Fertility Per 100,000 Non-Sterile Women, by Fertility Control Method According to Age

Method of control and outcome	15-19	20-24	25-29
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(norgestimate/ethinyl estradiol)

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BRIEF SUMMARY PATIENT PACKAGE INSERT
This product (like all oral contraceptives) does not protect against HIV infection (AIDS) and other sexually transmitted diseases.
Oral contraceptives, also known as "birth control pills" or "the pill," are taken to prevent pregnancy. When taken correctly to prevent pregnancy, oral contraceptives have a failure rate of approximately 1% per year (1 pregnancy per 100 women per year) when used without missing any pills. The typical failure rate is approximately 5% per year (5 pregnancies per 100 women per year) when women who miss pills are included. For most women oral contraceptives are also free of serious or unpleasant side effects. However, forgetting to take pills considerably increases the chances of pregnancy.

ORTHO TRI-CYCLLEN® may also be taken to treat moderate acne in females at least 15 years of age, who have started having menstrual periods, are able to take the pill and want to use the pill for birth control.

For the majority of women, oral contraceptives can be taken safely. But there are some women who are at high risk of developing certain serious diseases that can be fatal or may cause temporary or permanent disability. The risks associated with taking oral contraceptives increase significantly if you:

- smoke
- have high blood pressure, diabetes, high cholesterol
- have or have had clotting disorders, heart attack, stroke, angina pectoris, cancer of the breast or sex organs, jaundice or malignant or benign liver tumors

Although cardiovascular disease risks may be increased with oral contraceptive use after age 40 in healthy, non-smoking women (even with the newer low-dose formulations), there are also greater potential health risks associated with pregnancy in older women.

You should not take the pill if you suspect you are pregnant or have unexplained vaginal bleeding.

Cigarette smoking increases the risk of serious cardiovascular side effects from oral contraceptive use. This risk increases with age and with heavy smoking (15 or more cigarettes per day) and is quite marked in women over 35 years of age. Women who use oral contraceptives are strongly advised not to smoke.

Most side effects of the pill are not serious. The most common such effects are nausea, vomiting, bleeding between menstrual periods, weight gain, breast tenderness, difficulty in conceiving, and leg cramps. These side effects, especially nausea and vomiting, may subside within the first three months of use.

The serious side effects of the pill occur very infrequently, especially if you are in good health and are young. However, you should know that the following medical conditions have been associated with or made worse by the pill:

- Blood clots in the legs (thrombophlebitis), lungs (pulmonary embolism), stoppage or rupture of a blood vessel in the brain (stroke), blockage of blood to the heart (heart attack or angina pectoris) or other organs of the body. As mentioned above, smoking increases the risk of heart attacks and strokes and subsequent serious medical consequences.

- In rare cases, oral contraceptives can cause benign but dangerous liver tumors. These benign liver tumors can rupture and cause fatal internal bleeding. In addition, some studies report an increased risk of developing liver cancer. However, liver cancers are rare.

- High blood pressure, although blood pressure usually returns to normal when the pill is stopped.

The symptoms associated with these serious side effects are discussed in the detailed leaflet given to you with your supply of pills. Notify your healthcare professional if you notice any unusual physical disturbances while taking the pill. In addition, drugs such as rifampin, as well as some anticonvulsants and some antibiotics may decrease oral contraceptive effectiveness.

Oral contraceptives may interact with lamotrigine (LAMICTAL®), an anticonvulsant used for epilepsy. This may increase the risk of seizures so your healthcare professional may need to adjust the dose of lamotrigine.

Various studies give conflicting reports on the relationship between breast cancer and oral contraceptive use. Oral contraceptive use may slightly increase your chance of having breast cancer diagnosed, particularly after using hormonal contraceptives at a younger age. After you stop using hormonal contraceptives, the chances of having breast cancer diagnosed begin to go back down. You should have regular breast examinations by a healthcare professional and examine your own breasts monthly. Tell your healthcare professional if you have a family history of breast cancer or if you have had breast nodules or an abnormal mammogram. Women who currently have or have had breast cancer should not use oral contraceptives because breast cancer is usually a hormone-sensitive tumor.

Some studies have found an increase in the incidence of cancer of the cervix in women who use oral contraceptives. However, this finding may be related to factors other than the use of oral contraceptives. There is insufficient evidence to rule out the possibility that the pill may cause such cancers.

Taking the combination pill provides some important non-contraceptive benefits. These include less painful menstruation, less menstrual blood loss and anemia, fewer pelvic infections, and fewer cancers of the ovary and the lining of the uterus.

Use of any medicine, including any medicine you may have with your healthcare professional. Your healthcare professional will take a medical and physical history before prescribing oral contraceptives and will examine you. The physical examination may be delayed to another time if you request it and the healthcare professional believes that it is a good medical practice to postpone it. You should be reexamined at least once a year while taking oral contraceptives. Your pharmacist should have given you detailed patient information literature. Read this information which you should read and discuss with your healthcare professional.

HOW TO TAKE THE PILL

IMPORTANT POINTS TO REMEMBER

BEFORE YOU START TAKING YOUR PILLS:

- BE SURE TO READ THESE DIRECTIONS:**
Before you start taking your pills.
Anyone you are not sure what to do.

- THE RIGHT WAY TO TAKE THE PILL IS TO TAKE ONE PILL EVERY DAY AT THE SAME TIME.**
If you miss pills you could get pregnant. This includes starting the pack late. The more pills you miss, the more likely you are to get pregnant.

- MANY WOMEN HAVE SPOTTING OR LIGHT BLEEDING, OR MAY FEEL SICK TO THEIR STOMACH DURING THE FIRST 1-3 PACKS OF PILLS.** If you feel sick to your stomach or have spotting or light bleeding, do not stop taking the pill. The problem will usually go away. If it doesn't go away, check with your healthcare professional.

- MISSING PILLS CAN ALSO CAUSE SPOTTING OR LIGHT BLEEDING,** even when you make up for these missed pills.
On the days you take 2 pills to make up for missed pills, you could also feel a little sick to your stomach.

- IF YOU HAVE VOMITING OR DIARRHEA, OR IF YOU TAKE SOME MEDICINES,** including some antibiotics, your pills may not work as well.
Use a back-up method (such as condoms or spermicide) until you check with your healthcare professional.

- IF YOU HAVE TROUBLE REMEMBERING TO TAKE THE PILL,** talk to your healthcare professional about how to make pill-taking easier or about using another method of birth control.

- IF YOU HAVE ANY QUESTIONS OR ARE UNSURE ABOUT THE INFORMATION IN THIS LEAFLET,** call your healthcare professional.

ORTHO TRI-CYCLLEN® TABLETS
ORTHO-CYCLLEN® TABLETS
(norgestimate/ethinyl estradiol)

BEFORE YOU START TAKING YOUR PILLS

- DECIDE WHAT TIME OF DAY YOU WANT TO TAKE YOUR PILL.**
It is important to take it at about the same time every day.

THE PILL AT YOUR PILL PACK

Look at each pill to see it has 21 "active" pills (with hormones) to take for 3 weeks. This is followed by 1 week of "reminder" dark green pills (without hormones).

ORTHO TRI-CYCLLEN®: There are 7 white "active" pills, 7 light blue "active" pills, 7 blue "active" pills, and 7 dark green "reminder" pills.

ORTHO-CYCLLEN®: There are 21 blue "active" pills, and 7 dark green "reminder" pills.

- ALSO FIND:**
 - where on the pack to start taking pills,
 - in what order to take the pills.

BE SURE YOU HAVE READY AT ALL TIMES:

ANOTHER KIND OF BIRTH CONTROL (such as condoms or spermicide) to use as a back-up method in case you miss pills.

AN EXTRA, FULL PILL PACK.

WHEN TO START THE FIRST PACK OF PILLS

You have a choice of which day to start taking your first pack of pills. ORTHO TRI-CYCLLEN® and ORTHO-CYCLLEN® are available in the DIALPAK® Tablet Dispenser which is preset for a Sunday Start. Day 1 Start is also provided. Decide with your healthcare professional which is the best day for you. Pick a time of day which will be easy to remember.

Sunday Start:
ORTHO TRI-CYCLLEN®: Take the first white "active" pill of the first pack on the Sunday after your period starts, even if you are still bleeding. If your period begins on Sunday, start the pack that same day.

ORTHO-CYCLLEN®: Take the first blue "active" pill of the first pack on the Sunday after your period starts, even if you are still bleeding. If your period begins on Sunday, start the pack that same day.

Use another method of birth control such as condoms or spermicide as a back-up method if you have sex anytime from the Sunday you start your first pack until the next Sunday (7 days).

Day 1 Start:

ORTHO TRI-CYCLLEN®: Take the first white "active" pill of the first pack during the first 24 hours of your period.

ORTHO-CYCLLEN®: Take the first blue "active" pill of the first pack during the first 24 hours of your period.

You will not need to use a back-up method of birth control, since you are starting the pill at the beginning of your period.

WHAT TO DO DURING THE MONTH

TAKE ONE PILL AT THE SAME TIME EVERY DAY UNTIL THE PACK IS EMPTY.

Do not skip pills even if you are spotting or bleeding between monthly periods or feel sick to your stomach (nausea).
Do not skip pills even if you do not have sex very often.

WHEN YOU FINISH A PACK OR SWITCH YOUR BRAND OF PILLS:

Start the next pack on the day after your last "reminder" pill. Do not wait any days between packs.

WHAT TO DO IF YOU MISS PILLS

ORTHO TRI-CYCLLEN®:

If you MISS 1 white, light blue or blue "active" pill:

- Take it as soon as you remember. Take the next pill at your regular time. This means you may take 2 pills in 1 day.

- You do not need to use a back-up birth control method if you have sex.

If you MISS 2 white or light blue "active" pills in a row in **WEEK 1 OR WEEK 2** of your pack:

- Take 2 pills on the day you remember and 2 pills the next day.

- Then take 1 pill a day until you finish the pack.

You COULD BECOME PREGNANT if you have sex in the 7 days after you miss pills. You MUST use another birth control method (such as condoms or spermicide) as a back-up method for those 7 days.

If you MISS 2 blue "active" pills in a row in the **3RD WEEK:**

- If you are a Sunday Starter:**
Keep taking 1 pill every day until Sunday. On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

If you are a Day 1 Starter:
THROW OUT the rest of the pill pack and start a new pack that same day.

You may not have your period this month but this is expected. However, if you miss your period 2 months in a row, call your healthcare professional because you might be pregnant.

You COULD BECOME PREGNANT if you have sex in the 7 days after you miss pills. You MUST use another birth control method (such as condoms or spermicide) as a back-up method for those 7 days.

If you MISS 3 OR MORE white, light blue or blue "active" pills in a row (during the first 3 weeks):

- If you are a Sunday Starter:**
Keep taking 1 pill every day until Sunday. On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

If you are a Day 1 Starter:
THROW OUT the rest of the pill pack and start a new pack that same day.

You may not have your period this month but this is expected. However, if you miss your period 2 months in a row, call your healthcare professional because you might be pregnant.

You COULD BECOME PREGNANT if you have sex in the 7 days after you miss pills. You MUST use another birth control method (such as condoms or spermicide) as a back-up method for those 7 days.

ORTHO-CYCLLEN®:

If you MISS 1 blue "active" pill:

- Take it as soon as you remember. Take the next pill at your regular time. This means you may take 2 pills in 1 day.

- You do not need to use a back-up birth control method if you have sex.

If you MISS 2 blue "active" pills in a row in **WEEK 1 OR WEEK 2** of your pack:

- Take 2 pills on the day you remember and 2 pills the next day.

- Then take 1 pill a day until you finish the pack.

You COULD BECOME PREGNANT if you have sex in the 7 days after you miss pills. You MUST use another birth control method (such as condoms or spermicide) as a back-up method for those 7 days.

If you MISS 2 blue "active" pills in a row in the **3RD WEEK:**

- If you are a Sunday Starter:**
Keep taking 1 pill every day until Sunday. On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

If you are a Day 1 Starter:
THROW OUT the rest of the pill pack and start a new pack that same day.

You may not have your period this month but this is expected. However, if you miss your period 2 months in a row, call your healthcare professional because you might be pregnant.

You COULD BECOME PREGNANT if you have sex in the 7 days after you miss pills. You MUST use another birth control method (such as condoms or spermicide) as a back-up method for those 7 days.

If you MISS 3 OR MORE blue "active" pills in a row (during the first 3 weeks):

- If you are a Sunday Starter:**
Keep taking 1 pill every day until Sunday. On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

If you are a Day 1 Starter:
THROW OUT the rest of the pill pack and start a new pack that same day.

You may not have your period this month but this is expected. However, if you miss your period 2 months in a row, call your healthcare professional because you might be pregnant.

You COULD BECOME PREGNANT if you have sex in the 7 days after you miss pills. You MUST use another birth control method (such as condoms or spermicide) as a back-up method for those 7 days.

A REMINDER:

If you forget any of the 7 dark green "reminder" pills in Week 4:

THROW AWAY the pills you missed.

Keep taking 1 pill each day until the pack is empty.

You do not need a back-up method.

FINALLY, IF YOU ARE STILL NOT SURE WHAT TO DO ABOUT THE PILLS YOU HAVE MISSED:

Use A BACK-UP METHOD anytime you have sex.

KEEP TAKING ONE "ACTIVE" PILL EACH DAY until you can reach your healthcare professional.

INSTRUCTIONS FOR USING YOUR DIALPAK® TABLET DISPENSER

PLEASE READ ME!

- Sunday Start**
or

- Day 1 Start**

There are two ways to start taking birth control pills, Sunday Start or Day 1 Start.

Your healthcare professional will tell you which to use.

SAVE THESE INSTRUCTIONS.

1. If this is the first time you are taking birth control pills, or if you have not taken birth control pills for 10 days or more, your first step is to **wait until the first day you get your menstrual period.** Then, follow these instructions for either Sunday Start or Day 1 Start.

- When you get your period:**
 - If you use a Sunday Start** if your doctor told you to take your first pill on a Sunday. Take pill "1" on the Sunday after your period starts.
 - If your period starts on a Sunday, take pill "1" that day.
 - If you use a Day 1 Start if your doctor told you to take pill "1" on the first day of your period.

3. SET THE DAY:

- Sunday Start:** the arrow on your empty Dialpak should point to SU (Sunday).

- Day 1 Start:** turn the dial on your empty Dialpak until the arrow points to the first day of your period (if your period starts on Tuesday, the arrow will point to TU).

4. Insert the new refill by lining up the "V" shape on the refill with the "V" shape at the top of your Dialpak. Snap the refill in place. You are ready to take pill "1." You should always begin your pill cycle with pill "1." as shown on the inner part of the refill ring.

- Remove pill "1"** by pushing down on the pill. The pill will come out through a hole in the back of the Dialpak.

6. Swallow the pill. You will take one pill each day, if you use a Sunday Start and you are taking the pill for the FIRST TIME. You MUST USE A BACK-UP METHOD OF BIRTH CONTROL FOR THE FIRST 7 DAYS. If you use a Day 1 Start, you are protected from becoming pregnant as soon as you take your first pill.

7. Wait 24 hours to take your next pill. To take pill "2," turn the dial on your Dialpak to the next day. Continue to take one pill each day until all the pills have been taken.

- Take your pill at the same time every day.** It is important to take the correct pill each day and not miss any pills. You MUST use another birth control method (such as condoms or spermicide) as a back-up method if you have sex, but may also continue to use your pill as long as you take your pill on time.

- When your refill is empty, keep your Dialpak case.** You will start a new refill on the day after pill "28."