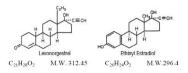
# rges trel and Ethinyl Es tradiol Tablets USP, 0.1 mg/0.02 mg

Patients should be counseled that oral contraceptives do not protect against transmission of HIV (AIDS) and other sexually transmitted diseases (STDs) such as chlamydia, genital herpes, genital warts, gonorrhea, hepatitis B, and syphiis.

DESCRIPTION

Each active, white tablet (21) contains 0.1 mg of levonorgestrel, d(-)-13β-ethyl-17α-ethinyl-17βhydroxygon-4-en-3-one, a toully symbolic progestogen, and 0.02 mg of ethinyl estradiol, 17α-ethinyl1,35(10)-estratriere-3, 17β-diol. The inactive ingredients present are croscarmellose sodium, lactose
monohydrate, magnesismusterare, nicrocrystalline cellulose and povidors.

Each inert, orange tablet (7) contains the following inactive ingredients: croscarmellose sodium, FD&C Yellow #6, lactose monohydrate, magnesium stearate, and microcrystalline cellulose.



### CLINICAL PHARMACOLOGY

# Mode of Action

Combination or al contraceptives act by suppression of gonadoropins. Although the primary mechanism of this action is inhibition of ovulation, other alterations include changes in the cervical mucus (which increase the difficulty of spermentry into the uterus) and the endometrium (which reduce the likelihood of implantation).

# DHADMACOKINETICS

An appearance of the property of the property

Assessment of the contraction of

dose) to days 6 and 21 (multiple doses) by 34% and 96%, respectively (Figure 1).

Unbound levouragested concertations increased from day 1 to days of and 21 by 25% and 33%, respectively. The kinetics of total levouragested are non-linear due to an increase in hinding of levouragested to a bottome behing dolled in [SHEO], which is attributed to increased SHIGI Evels that are indicated by the daily administration of ethinj estandiol.

Following a single does, maximum serum concertations of ethingl estandiol of 62 ± 21 pg/ml. are reached at 15 ± 0.5 bours. At steady state, astimed from at least day 6 non-ants, maximum concertations of ething estandiol of 62 ± 21 pg/ml. are of exhipted estandiol and the state of th

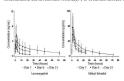


FIGURE I: Mean (SE) levenorges trel and ethisyl estradial serum concentrations in 22 subjects receiving levenorges trel and ethisyl estradiol tablets (100 mcg levenorges trel and 20 mcg ethisyl estradio)

TABLE I provides a summary of levenorgestrel and ethisyl estradiol pharmacokinetic parameters.

TABLE I: MEAN (SD) PHARMACOKINETIC PARAMETERS OF LEVONORGESTREL a

1	ETHINYL EST	RADIOL TA	BLETS OVER	A 21-DAY DO	SING PERIO	D		
			Levonorgestre					
	Cmax	Tmax	AUC	CL/F	V\z/F	SHBG		
Day	ng/mL	h	ng•h/mL	mL/h/kg	L/kg	nmol/L		
1	2.75 (0.88)	1.6 (0.9)	35.2 (12.8)	53.7 (20.8)	2.66 (1.09)	57 (18)		
6	4.52 (1.79)	1.5 (0.7)	46.0 (18.8)	40.8(14.5)	2.05 (0.86)	81 (25)		
21	6.00 (2.65)	1.5 (0.5)	68.3 (32.5)	28.4 (10.3)	1.43 (0.62)	93 (40)		
		Unbe	und Levonorg	estrel				
	pg/mL	h	pg•h/mL	L/h/kg	L/kg	fu%		
1	51.2 (12.9)	1.6 (0.9)	654 (201)	2.79 (0.97)	135.9 (41.8)	1.92 (0.30)		
6	77.9 (22.0)	1.5 (0.7)	794 (240)	2.24 (0.59)	112.4 (40.5)	1.80 (0.24)		
21	103.6 (36.9)	1.5 (0.5)	1177 (452)	1.57 (0.49)	78.6 (29.7)	1.78 (0.19)		
		- 1	Ethinyl Estradio	ı				
	pg/mL h pg+h/mL mL/h/kg L/kg							
1	62.0 (20.5)	1.5 (0.5)	653 (227)	567 (204)	14.3 (3.7)			
6	76.7 (29.9)	1.3 (0.7)	604 (231)	610 (196)	15.5	(4.0)		
21	82.3 (33.2)	1.4 (0.6)	776 (308)	486 (179)	12.4	(4.1)		

Levonorgestrel in serum is primarily bound to SHBG. Ethinyl estradiol is about 97% bound to plasma albumin. Ethinyl estradiol does not bind to SHBG, but induces SHBG synthesis.

Metabolism
Levourgeavel: The most important metabolic pathway occurs in the reduction of the 44-3-oxa group and hydroxylation at positions 2a, 18, and 166, followed by conjugation, Most of the metabolism star and hydroxylation at positions 2a, 18, and 166, followed by conjugation, Most of the metabolism star predominantly in the form of gluctomides. Some of the parent levourgeavel also circulates as 179alian. Metabolic cleanure cares may first aroung individuals by several-fold, and first my account in part for the valet variation observed in levourgeavel concentions among the several-fold, and this my account in part for the valet variation observed in levourgeavel concentions among the several-fold, and this my account in part for the valet variation observed in levourgeavel concentions among the valet valet of the valet variation observed in levourgeavel (VFMA) in the levour new PASO (CFVAA) was provided younge infevious has done explain the variation in zero of elsting transfer are considered by a contraction of the valet variation of the valet variation of the valet variation of the variation of the valet variation of the variation of the valet va

Excretion

The elimination half-life for levonorgestrel is approximately 36 ± 13 hours at steedy state. Levonorgestrel and its metabolities are primarily excreted in the rince (40% to 66%) and about 16% to 44% are excreted in frees. The elimination half-life of eliming estration is 18 ± 4.7 hours at steady

Race Based on the pharmacokinetic study with levonorgestrel and ethinyl estradiol, there are no apparent differences in pharmacokinetic parameters among women of different races.

# Hepatic Insufficiency No formal studies have evaluated the effect of hepatic disease on the disposition of levomorgestrel and ethinyl estradiol. However, steroid hormores may be poorly metabolized in patients with impaired liver function.

Renal Insufficiency

No formal studies have evaluated the effect of renal disease on the disposition of levonorgestrel and ethingle estradiol.

# See PRECAUTIONS Section-DRUG INTERACTIONS

# INDICATIONS AND USAGE

FORM. A I MANS AND MAN AND MAN

	Unintended Preg First Yea	ır of Use	Use at One Year <sup>3</sup>
Method	Typical Use 1	Perfect Use 2	
(1)	(2)	(3)	(4)
Chance 4	85	85	
Spermicides <sup>5</sup>	26	6	40
Periodic abstinence	25		63
Calendar		9	
Ovulation Method		3	
Sympto-Thermal <sup>6</sup>		2	
Post-Ovulation		1	
Cap <sup>7</sup>			
Parous Women	40	26	42
Nulliparous Women	20	9	56
Sponge			
Parous Women	40	20	42
Nulliparous Women	20	9	56
Diaphragm <sup>7</sup>	20	6	56
Withdrawal	19	4	
Condom 8			
Female (Reality)	21	5	56
Male	14	3	61
Pill	5		71

Progestin only		0.5	
Combined		0.1	
IUD			
Progesterone T	2.0	1.5	81
Copper T380A	0.8	0.6	78
LNg 20	0.1	0.1	81
Depo-Provera®	0.3	0.3	70
Levonorgestrel Implants (Norplant®)	0.05	0.05	88
Female Sterilization	0.5	0.5	100
Male Sterilization	0.15	0.10	100

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In a clinical trial with levomorgenirel and ethinyl estradiol tables, 1,477 subjects had 7,720 cycles of use and a usul of 5 pregnancies were reported. This represents an overall pregnancy rate of 0.84 per 100 woman years. This rate includes patients with old mutable the deep correctly, One or mare palls 100 woman years. This rate includes patients with old mutable the deep correctly, One or mare palls 100 of the 7,870 cycles. Of the head 7,870 cycles, a notal of 150 cycles were excluded from the calculation of the 7,870 cycles. Of the head 7,870 cycles, a notal of 150 cycles were excluded from the calculation of the 7,870 cycles. Of the head 7,870 cycles, a notal of 150 cycles were excluded from the calculation of the Pearl include to the use of backage counterpoints and/or mixing 3 or more connective palls.

# CONTRAINDICATIONS

Combinision or contraceptives should not be used in women with any of the following conditions: Thrombophlebitis or thromboembolic disorders A history of deep-vein thrombophlebitis or thromboembolic disorders Cerebrovascular or coronary artery disease (current or past history)

Valvular heart disease with thrombogenic complications Thrombogenic rhythm disorders

Hereditary or acquired thrombophilias

Major surgery with prolonged immobilization Diabetes with vascular involvement

Headaches with focal neurological symptoms

Headsches with fixed neurological symptoms
Uncontrolled hypersension
Konwort suppered carcinoms of the breast or personal history of breast carcer
Carcinoms of the endonestriant or other known or suspected extrageno dependent neoplasia
Undiagnosed abnormal genital between
Cholestatic juntifice of pregnancy or juntifice with prior pill use
Heguita deformous or carcinoms, or active liver disease Known or suspected pregnancy
Hypersensitivity to any of the components of levonorgestrel and ethinyl estradiol tablets.

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 should be strongly advised not to smoke.

The use of oral contraceptives is associated with increased risks of several serious conflicions including versus and atterial thormbotic and thromboembolic events (such as myocardial infarction, demoderable), and was a worked to the contraction of the contrac

to these risks.

The information contained in this package insert is principally based on studies carried out in paties who used oral contraceptives with higher doses of estrogens and progestogens than those in commuse today. The effect of long-termuse of the oral contraceptives with lower doses of both estrogen and progestogens remains to be determined.

and progenotingem remains to be determined. Throughout this labeling, replication/gived studies, Case control studies provide a measure of necessary and the control studies, and prospective or case control studies, and prospective or cubort studies, Case control studies provide a measure of the relative risk of disease, analyse, arise of the incidence of a disease analyge cubes to relative studies and a disease. Colorist studies provide a measure of attributable risk, which is the difference in the incidence of disease between one-contractives time and unusers. The attributable risk does provide information about the actual occurrence of all disease in the population. For further information, the create is referred to a text one-protection/gived methods.

# 1. Thromboembolic Disorders and Other Vascular Problems

# a. Myocardial Infarction

A increased vide of proportial infarction has been attributed to oral-contraceptive use. This risk is primitly in annhers or women with other underlying risk factors for coronary-array disease such as hypertension, hypercholesterolenta, monthlo desity, and dislocks. The relative risk of heart task for current oral-contraceptive users has been estimated to be two to six. The risk is very low under the age of 30.

Smoking in combination with oral-contraceptive use has been shown to contribute substantially to the incidence of impocardial infarction in women in their mid-thirds or older with smoking accounting for the majority of excess cases. Mortality area associated with circulatory disease have been shown to increase substantially in smokers over the age of 35 and nonmolers over the age of 40 (FIGURE II) among women who are not contraceptive.

CIRCULATORY DISEASE MORTALITY RATES PER 100,000 WOMAN YEARS BY AGE, SMOKING STATUS AND ORAL-CONTRACEPTIVE USE

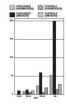


TABLE IL (Adapted from P.M. Layde and V. Beral, Lancet, 1541-546, 1981.)
Ord corraceptives may compound the effects of well-known risk factors, such as hypertension, didners, hyperhipdrass, age, and obesty, hapartedian; nour prospectages are known to decrease.
Ord corraceptives have been shown to increase blood greature armag users (see section 9 in WARNINGS). Similar effects on risk factors have been associated with an increase for side of the ord disease. Ord corraceptives must be used with caution in women with cardiovascular disease risk factors.

b. Venuse Thrombosis and Thrombosin for Mrs. As increased risk of versus thrombosembolis and thrombosic disease associated with the use of oral contraceptives is well established. Case comost studies have found the relative risk of users compared to mouseurs to be 3 for the first epitode of superficial vensus mismosis, 4 to 11 for deep-wrien thrombosis or painmany embolism, and 1.5 to 6 for votenes with predisposing conditions for vensus thrombosics or painmany embolism, and 1.5 to 6 for votenes with predisposing conditions for vensus and thrombosis or painmany embolism, and 1.5 to 6 for votenes with predisposing conditions for vensus and contraceptives in the same while the venture of t

contractprives is not related to length of use and gradually disappears after pill use is supped.

A two to flour field increase in-relative risks of prosuperature fromtomerholic complications has been reported with the use of oral contraceptives. The relative risk of venous thrombosis in vomen who have predisposing condition is sivier due to vomen without such medical contilions. If freshibe, oral suppers of a special contraction of the contraction of the relative contractions of the suppers of a special contraction of the contraction of

### c. Cerebro vascular Diseases

Oral contraceptives have been shown to increase both the relative and attributable risks of cerebrovascular events (thrombotic and hemorrhagic storles), although, in general, the risk is greamaning older (2-5) greams), hyperension swomen who also some. Hyperension was found to be a rial factor for both tuers and instances, for both types of storless, while smoking interacted to increase risks for hemorrhagic storless.

risk for hemorrhagic stroles.

In a large study, the relative risk of thrombotic stroles has been shown to range from 3 for nombonies were so. 14 for users with severe hypertension. The relative risk of hemorrhagic strole is reported to be 1.2 for numbers who used on curvaragelves, 2.5 for sunders who did not use and users with severe hypertension. The attributable risk is also greater in older women. Oral contraceptives also increase the risk for strole is worse with other materials of the contraceptive size for increase the risk for strole is worser with other materials of risk cases such as certain interied or acquired thrombophilas. Women with suggistic (particularly singuiare headed bescentiarly the strole of the strong st

A positive association has been observed between the amount of estugen and progestogen in oral to positive association has been observed between the amount of estugen and progestogen in oral contraceptives and the risk of vascular diseases. A decline in serum high-density lipoproteins (HIDL) has been reported with many progestostical aggests. A decline in serum high-density lipoproteins has been associated with an increased incidence of ischenic heart disease. Because estrogens increase HDL cholesterol, the art effect of aronal connact prive depends on a balance achieved between doses of the description of the contraction of t

estrogen and progestogen and the nature and absolute amount of progestogen used in the contract The amount of both hormones should be considered in the choice of an oral contraceptive.

# tence of Risk of Vascular Disease

In another study in Great Britain, the risk of developing cerebrovascular disease persisted for at least 6 years after discontinuation of oral contraceptives, although excess risk was very small. However, both studies were performed with oral contraceptive formulations containing 50 mcg or higher of estrogens

years after discontinuation of one couraceptives, although excess risk was very small. However, both under weep referred with one couraceptive to formalismo containing 30 mg or plateful or developed to except the containing 30 mg or plateful of exceptive 12. Estimates of Mortalish From Contraceptive that the contraceptive data from a survivey of sources which have estimated the mortality rase associated contributed in the contraceptive methods plus the risk arthutude to pregnancy in the event of method latine. Each method of contraceptive methods plus the risk arthutude to pregnancy in the event of method latine. Each method of contraceptive method spits the risk arthutude to pregnancy in event of method latine. Each method of contraceptive mens 35 and tother who mittee and 40 and other event of method latine. Each method is contraceptive mens 35 and tother who mittee and 40 and other contraceptive method in the contraceptive mens is based on data gashered in the 1970's but not reported until 1983. However, current clinical confidence of the contraceptive mens is based on data gashered in the 1970's but not reported until 1983. However, current clinical confidence of the contraceptive mens is based on data gashered in the 1970's but not reported until 1983. However, current clinical confidence of the contraceptive was been been as which the contraceptive was the survival of the contraceptive was the contraceptive and sharing and the contraceptive was the contraceptive and the contraceptive and the contraceptive was the contraceptive and the contraceptive ane

TABLE III: ANNUAL NUMBER OF BIRTH-RELATED OR METHOD-RELATED DEATHS
ASSOCIATED WITH CONTROL OF FERTILITY PER 100,000 NONSTERILE WOMEN,
BY EEFFI II TY. CONTROL METHOD AND 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						
nonsmoker <sup>†</sup>	0.3	0.5	0.9	1.9	13.8	31.6
Oral contraceptives						
smoker <sup>†</sup>	2.2	3.4	6.6	13.5	51.1	117.2
IUD <sup>†</sup>	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

# 3. Carcinoma Of The Reproductive Organs and Breasts

Numerous epidemiological studies have examined the associat contraceptives and the incidence of breast and cervical cancer.

contaceptives and the incidence of breast and cervical cancer.

The risk of hinty lips extent cancer diagnosed up be slighty increased among current and recent users of combination oral contaceptives. However, this excess risk appears to decrease over time after combination oral contaceptive discontinuation and by 10 years and the excession the increased orals and no combination oral contaceptive discontinuation and by 10 years and the excession the increased orals and no consistent relationships have been found with dose or type of sterroid. Some studies have reported a small increase in risk or women who first use combination oral contraceptives at a younger age. Most studies above a similar pattern of risk with combination oral contraceptive use regardless of a woman's reproductive history to be family breast cancer history.

Breast cancers diagnosed in current or previous OC users tend to be less clinically advanced than in nonssers.

Some studies suggest that oral contraceptive use has been associated with an increase in the risk of cervical intraepithelial meplasia or invasive cervical cancer in some populations of women. However there continues to be controversy about the extent to which such findings may be due to differences in sexual behavior and other factors.

section construct and other ractions.

In spile of many studies of the relationship between combination or al contraceptive use and breast and cervical cancers, a cause-and-effect relationship has not been established.

4. Hepatic Neoplasia

4. Hepatic Neoplasia Berigin Pagitia debomms are associated with oral-contraceptive use, although the incidence of the berigin pumors is rare in the United States. Indirect calculations have estimated the attributable ris rine transport as Cascast 100,000 for users, a risk that increases after four or more yeas of user. Rupture of rare, berign, hepatic adenoms may cause death through intra-abdominal hemorrhage.

Studies from Britain have shown an increased risk of developing bepatocellular carcinoma in long-te-(>8 years) oral-contraceptive users. However, these cancers are extremely rare in the U.S. and the antibutable risk (the excess incidence) of liver cancers in oral-contraceptive users approaches less 6 one per million users.

# Ocular Lesions

There have been clinical case reports of retinal thrombosis associated with the use of oral contraceptives that may lead to partial or complete loss of vision. Oral contraceptives should be discontinued if there is unexplained partial or complete loss of vision; onest of proposis or diplopia; papilledem; or retinal vascular lesions. Appropriate diagnostic and therapeutic measures should be dema; or retinal vascular lesions. Appropriate diagnostic and thera ken immediately.

Oral-Contraceptive Use Before Or During Early Pregnancy

Extensive epidemiological studies have revealed no increased risk of birth defects in infants born to women who have used or al contraceptives prior to pregnancy. Studies also do not suggest a teratogeni effect, particularly intofar as cardiac anomalies and line-reduction defects are concerned, when taken inadvertently during early pregnancy (see CONTRAINDICATIONSsection).

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.

# Gallbladder Disease

Combination and contractpives may worsen existing gallbladder disease and may accelerate the development of this disease in previously asymptomate women. Earlier studies have reported an other contraction of the disease in previously asymptomate women. Earlier studies have reported an other excert studies, shower, how above that the relative vise for developing gallbladder disease many cond-contractpive users may be national. The recent findings of minimal risk may be related to the contraction of the contract of the con

# Carbohydrate And Lipid Metabolic Effects

Order consequences to the description to the season of the

A small proportion of women will have persistent hypertriglyceridemia while on the pill. As discuerifier (see WARNINGS, Ia. and Id.; PRECAUTIONS, 3.), changes in serum triglycerides and lipoprotein levels have been reported in oral-cortraceptive users.

Women with a history of pepermagners, by pregressions, where the permission of the p

The oract or exacerbation of migraine or development of headache with a new pattern that is recurrent persistent, or severe requires discontinuation of oral contraceptives and evaluation of the cause. (See WARNINGS, 1c. and CONTRAINDICATIONS.)

It. Bleeding regularities
Breadstrooph bleeding and spotting are sometimes encountered in patients on oral contraceptives, especially during the first three mustlos of use. The type and dose of progestogen may be important. If bleeding persists or recurs, nothormound causes should be considered and adequate diagnostic measures taken to the outsuingiancy or pregnavy in the event of the orderdrough bleeding, as in the case of my admants virginal before the order of the o

Some women may encounter post-pill amenorrhea or oligomenorrhea (possibly with anotespecially when such a condition was preexistent.

### Ectopic Pregnancy auterine pregnancy may occur in contraceptive failures

# PRECAUTIONS

1. General
Petients should be counseled that oral contraceptives do not protect against transmission of HIV
(AIDS) and other sexually transmitted disease (STDs) such as chlamydia, genital herpes, genital
varve, generate, hepatitis P, and syshight
2. Physical Examination And Fellow-Up
A periodic personal and fainty medical binary and complete physical examination are appropriate for
all women, including women using onal contraceptives. The physical examination, however, may be
deterred until neith instantion of our contraceptives. The physical examination, however, may be
deterred until neith instantion of our contraceptives. The physical examination, however, may be
deterred until neith instantion of our contraceptives if requested by we woman and judged apoptutate
advances, and pelvic organs, including cervical cytology, and relevant laboratory uses. In case of
undiagnosed, persisten, or recurrent adminanty alignal bleeding, apoptive adiagnosis, experision, or recurrent adminanty alignal bleeding, apoptivis adiagnosis, experision, or recurrent adminanty alignal bleeding, apoptive adiagnosis, experision, or recurrent adminanty or laptical better the source of
the conducted to ride out antignators. Women with a strong (anity) history of breast cancer or
who have been sounded schedule members with piretical case.

Ligid Disorders men who are being neuted for hyperlipidentian should be followed closely if they elect to use oral sunceptives. Some progestagem may elevate LDL levels and may render the control of relipidentian mer difficial (See WARINOSE, La, La, da, and 8.) must sumfly proportion of women will have adverse lipid changes while taking oral contraceptives. however, the sumfly of the sumfly entirely elevated to sumfly of the sumfly of the sumfly of the sumfly which the sumfly of the sumfly of the sumfly of the sumfly which of plasma triply elevation may lead be presented in a closer conglication.

hormones may be poorly metabolized in patients with impaired liver function

# Fluid Ret

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.

# Emotional Disorders

Patients becoming significantly depressed while taking oral contraceptives should stop the medication and use an alternate method of contraception in an attempt to determine whether the symptom is drug related. Women with a history of depression should be carefully observed and the drug discontinued if depression recurs to a serious degree.

### Contact Lenses

# 7. Canact Lenses Contact-lens weares with develop visual changes or changes in lens tolerance should be assessed by an ophthalmologist. 8. Castrointestimal Diarchea andor voniting may reduce hormone absorption resulting in decreased serum concentrations. 9. Drug Interactions Changes in Contractpite Effectiveness Associated With Coadminis tration Of Other Products: Contractpite effectiveness may be reduced when hormonal contraceptives are condiministed with antibiotics, anticomonals, and other drugs that there are for metablist not contraceptive streets, and in the contract of the contractive of the contractive

burth control should be considered.

Several cases of contraceptive failure and breakthrough bleeding have been reported in the liser with concornisant administration of antibiotics such as ampicillin and other pencicillins, and stract. However, clinical pharmacology studies investigating drug interactions between combined oral contraceptives and these authorics have reported inconsistent results.

Several of the anti-HIV protease inhibitors have been studied with co-diministration of oral conduction burnard counterpieve, significant charges (increase and learned) in the plasma levels contactly the plasma levels contactly the plasma levels contacted by modern supplementations of anti-HIV protease inhibitors. Healthcare providers should refer to the label of the individual anti-HIV protease inhibitors further deep drug drug integration information.

restantiate provinces studier ere en use uses of one neuroman ant-ruly processe immunes for transfer after, after,

during condimination with combination and contraceptives. Changes in Planna Levels of Co. Administrated Drugs: Combination borrownal contraceptives containing some synthetic extragens (e.g., ebinyl extradiol) may within the methodistron of other compounds. Increased planna concentrations of cyclosporia, the contraction of the contraction of the contraction of the contraction of contraceptives. Decreased planna concentrations of a chantingulen and increase administration of oral contraceptives. Decreased planna concentrations of a chantingulen and increase clearance of temporary salicytic acid, unphilips, and collibrate, cid, the to induction of conjugation (particularly glucus oraddoin), have been noted when these drugs were administrated with oral The server thine information of corrownian medications, should be considered to desertic outerful the server thine information of corrownian medications, should be considered to desertic outerful.

# Interactions With Laboratory Tests

Certain endocrine- and liver-function tests and blood components may be affected by oral contraceptives:

a. Increased prothrombin and factors VII, VIII, IX, and X; decreased antithrombin 3; increased norepinephrine-induced platelet aggregability.

morepiae/min-induced platelet aggregability.

In Erecared dynoted hading globulin (TBG) leading to increased circulating total dynoid hormone, as measured by protein-bound iodine (PBI). If a by column or by radioimmunoasay. Free T<sub>3</sub> resin upake is decreased, reflecting the elevated TBG, Free T<sub>4</sub> concentration is unalized.

C. Other histing protein may be elevated fine former. In conticusteroid binding globulin (CBG), sex hormone-brinding globulin (SBHG) leading is increased levels of total circulating corticosteroids as sex stream of respectively. Free or biologically active hormone concentrations are unchanged.

A frightyeristic may be increased and levels of various order lipids and lipoprotein may be affected.

C. Glicose bilerance may be decreased.

E. Serman foliale review poly degreeach by oral-contracegoine therapy. This may be of clinical significance if a woman becomes pregnant shortly after discontinuing oral contracegoives.

# Carcinogenesis See WARNINGSsection.

### Pregnancy Category X. See CONTRAINDICATIONS and WARNINGS sections

Small anomato of nacionarceptive steroids and/or metabolites have been identified in the milk of maxing mothers, and a few adverse effects on the child have been reported, including justific and interfere with laction by decreasing the quantity and quality of Pestas milk [Postbalk], the muring interfere with laction by decreasing the quantity and quality for Pestas milk [Postbalk], the muring mother should be advised not to use combination and contraceptives but to use other forms of contraception until the lact completely engaged the child.

# Pediatric Use

Safety and efficacy of levonorgestrel and ethinyl estradiol tablets have been established in women of reproductive age. Safety and efficacy are expected to be the same for pospuberal adolescents under the age of 16 and for uners 16 years and older. Use of levonorgestrel and ethinyl estraidiol tablets before

# Geriatric Use

Geratine Use orgestrel and ethinyl estradiol tablet has not been studied in women over 65 years of age and is icated in this population.

Information For The Patient

# ADVERSE REACTIONS

An increased risk of the following serious adverse reactions (see **WARNINGS**section for additional information) has been associated with the use of oral contraceptives:

Throshorobile, and therefore discovered the second of the contexpelives:

Throshorobile, the thromboole discovered and other vascalar problems (including throshophlebits and wereas thrombosis with or without palments; enclosive, unevent thrombosis, artical versus thrombosis, artical versus thrombosis, artical versus thrombosis, and the second palments of the proposition o

The following adverse reactions have been reported in patients receiving oral contraceptives and are believed to be drug related (alphabetically listed):

Anaphylactic/anaphylactoid reactions, including urticaria, angioedema, and severe reactions with respiratory and circulatory symptoms

Breast changes: tenderness, pain, enlargement, secretion Budd-Chiari syndrome Cervical erosion and secretion, change in Cholestatic jaundice

Chorea, exacerbation of

Contact lenses, intolerance to Corneal curvature (steepening), change in

Edema/fluid retention Erythema multiforme

Erythema nodosum Gastrointestinal symptoms (such as abdominal pain, cramps, and bloating) Hirsutism

Infertility after discontinuation of treatment, temporary

Lactation, diminution in, when given immediately postpartum

Libido, change in

sma which may persist Menstrual flow, change in

Mood changes, including depression

Pancreatitis Porphyria, exacerbation of

Rash (allergic) Scalp hair, loss of

Serum folate levels, decrease in

Serum folder levels, CR. LEGAL ...
Spotting
Systemic lupus erythematorsus, exacerhation of
Uncheduled bleeding
Vaginitis, including candidiasis
Variorse veins, aggravation of
Vonsting Weight or appetite (increase or decrease), change in
The following adverse reactions have been reported in users of
Cataracts

Dysmenorrhea
Hemolytic urenic syndrome
Hemorrhagic eruption
Optic neurits, which may lead to partial or complete loss of vision
Permenturual syndrome
Reral function, impaired

# OVERDOSAGE

Symptoms of oral contraceptive overdosage in adults and children may include nausea, vomiting, and drowsiness/fatigue; withdrawal bleeding may occur in females. There is no specific antidote and further treatment of overdose, if necessary, is directed to the symptoms.

turner treatment of overdador, it necessary, is directed to the symptoms.

Nancontraceptive Indeath Benefits
The following microstraceptive bothle benefits related to the use of onel contraceptives are supported
by epidemiological analous which largely unitied oral-contraceptive formulations containing doses
exceeding 0.035 mg of ethingl estradiol or 0.05 mg of mestranol.

Effects on memory.

sed blood loss and decreased incidence of iron-deficiency anemia

Decreased incidence of dysmenorrhea

Effects related to inhibition of ovulation

Decreased incidence of functional ovarian cyst Decreased incidence of ectopic pregnancies

Effects from long-terr

Enters as intringermulos. Decreased incidence of fibroadenoms and fibroacystic disease of the breast Decreased incidence of acute pelvic inflammatory disease.

Decreased incidence of endometrial cancer

Decreased incidence of ovarian cancer

# DOSAGE AND ADMINISTRATION

DUDDING, AND AUMINIST BALLIUM.

To achieve maximum contraceptive effectiveness, levomorgeurel and ethinpl estratiol tablets must be taken excelly as directed and at intervals not exceeding 24 hours.

The dosage of levomorgeurel and ethinpl estratiol tablets is one white tablet daily for 21 connectuiive days, collowed by one orange inert tablet daily for 7 connectuiive days, according to the prescribed schedule.

commended that levonorgestrel and ethinyl estradiol tablets be taken at the same time each day

### During The First Cycle Of Use

The possibility of ovulation and conception prior to initiation of medication should be considered. The patient should be instructed to begin taking levonorgestrel and ethinyl estradiol tablets on either the first Sunday after the onset of mentration (Sunday Start or on Day 1 of mentration (Day 1 Start).

Sunday start:

The patient is instructed to begin taking levourorgestrel and ethingl estradiol tablets on the first Sunday after the onnex of mentiration. If mentiration begins on a Sunday, the first tablet (white) is taken that doe, flow white tablets to those level and table of the sunday for the owner of the sunday for the within three days that the context of the sunday to the sunday the sunday to the

Do J SINC:

Design de first veyle of medication, the patient is instructed in begin taking levourogasivel and edingle standard bables during the first 24 hours of her period (day one of the meanural cycle). One while takes the bable standard for 21 connective days, followed up one or eargin intratable stally for seven connective days. Windhazwah Berding should usually occur within three days following discontinuation of white bables may not been finished before the expa and sex is sainted lift medication is entirely designed to the part and its section of the section of the first results of the sex is used in the part of the first results of the first results of the first results of the first results of the first year of the year of years year of the year of years of the year of years of years of years year of years of years

# Switching from another hormonal method of contraception

Swiching from another hormonal method of contraception.

When the painer is a visiting from all-other perigiment of absheys, the should wait? days after her last tablet before the starts levolunge; perigiment of absheys, the should wait? days after her last tablet before the starts levolunge; perigiment of absheys and the start before the starts levolunge; perigiment of absheys, the should start be first pack of levolunge; perigiment of absheys, the should start be first pack of levolunge; perigiment of absheys the start perigiment of absheys the start perigiment of absheys the start perigiment of a start perigiment of a start perigiment of absheys the start perigiment of a start period of start period and a start period of start period and a s

## If spotting or breakthrough bleeding occurs

If spotting or breakthrough bleeding occurs

If spotting or breakthrough bleeding occurs

This type of bleeding is smally transient and without significance; however, if the bleeding is persistent or prolonged, the patient is aboved on consult he physical on the presistent or prolonged, the patient is aboved on consult he physical on the presistent of prolonged, the patient is aboved on consultance physical or better than the patient is a stransient of the pati

ton.

The risk of pregruncy increases with each active (white) tablet missed. For additional patient instructions regarding missed tablets, see the WHAT TO DO IF YOU MISS PILLS section in the DETAILED PATIENT LABELING below.

Levurregeners, abortion or miscarriage.

Levurregeners and ethiopt enrolled attempts to induced or settler than day 20 postpontum in the

Levurregeners and ethiopt enrolled attempts to induce to be increased risk for thomstoembolic

over CONTARNIOCATIONS, WARNINGS, and PRECAUTIONS-concerning furnishments to the

classes.) The patient should be advised to use a non-hormonal back-up method for the first? days of

other taking.

Levonorgestrel and ethinyl estradiol tablets may be initiated immediately after a first trimester abortion miscarriage. If the patient starts levonorgestrel and ethinyl estradiol tablets immediately, back-up contraception is not needed.

# HOW SUPPLIED

Levonorgestrel and ethinyl estradiol tablets USP,  $0.1\,\mathrm{mg}/0.02\,\mathrm{mg}$  are available in 3 wallets, each containing 28 tablets as follows.

Canaming, 20 tablets as follows.

Each wallet contain 21 white to off white round bevel edged tablets each containing 0.1 mg
lenourgearde and 0.2mg eshingly estratiol, deboosed with T.U." on one side and T221" on the other
side and Torrage round bevel edged inert tablets deboosed with T.U." on one side and T122" on the
other side.

side also forange round never enges inert unesse accessed with LU stones uses an 1,22 onne They are supplied as follows: Levenor; general and ethinyl extendiol tables t.USP, 0.1 mg, 0.02 mg, are available in a vailable in a valid r(MDC 6180-054-11) of 30 tables, such 3 valides are packed in a common/NDC 6810-654-13). Store at 25°C (27° F); excursions permitted to 15°-30°C (29°-86°F) (see USP Controlled Room Temperature)

Temperature]
Distributed by:
Lupin Pharmaceuticals, In
Baltimore, Maryland 21202
United States
Manufactured by:
Lupin Limited
Pithampur (M.P.) - 454 775
INDIA
April 2016

BRIEF SUMMARY PATIENT PACKAGE INSERT

# Levonorges trel and Ethinyi Es tradiol Tablets USP, 0.1 mg/0.02 mg Rx only

Rx only
This product (like all oral contraceptives) is intended to prevent pregnancy. Oral contraceptives do not protect against transmission of HIV (AIDS) and other sexually transmitted diseases (CFDs) such as charge principles and protects, lepatinis Ra, and styphis.

Oral connecptives, also known 8 "brith-control pills" or "the pill," are taken to prevent pregnancy, and when takes correctly, how a failure rate of approximately 10 Proc year (I pregnancy per 100 women per year of use) when used without missing any pills. The average failure rate of large numbers of pill users is approximately 50 Proc year (I pregnancy per year of use) when women who miss pills are included. For most women oral contraceptives are also free of serious or unpleasant side effects. However, forgening to the pills considerably strenses to charges of the others of pregnancy.

ettects. However, torgetting to take pills considerably increases the charces of pregnancy. For the majority of urone, roal contareciptives can be taken safely. But there are some women who are at high risk of developing certain serious diseases that can be life-threatening or may cause temporary or permanent disability or death. The risks associated with taking or contraceptives interest significantly if you:

— sumble.

— have the bord of resoure, diabetes, high cholesterol, or a northern you form blood closs.

— have or have had closing disorders, heart attack, stops, anging specturis, camer of the breast or sex organs, justified; anging our developing three stumers, or major surgery with prolonged immobilization.

— have beached-set with neurological symptoms.

You should not take the pill if you suspect you are pregnant or have unexplained vaginal bleedin Although cardiovascular disease risks may be increased with oral-contraceptive use after age 40 in healthy, nonsmoking women, there are also greater potential health risks associated with pregnancy is older women.

Cigarette smoking increases the risk of serious adverse effects on the heart and blood vessels 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 should not 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, and difficulty wearing contact leanes. 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 do not smoke. However, you should know that the following medical conditions have been associated with or made worse by the pill: or mase worse by me pui:

1. Blood closs in the legs (thrombophlebits) and lungs (pulmonary embolism), blockage or rupture of a blood vessel in the brain (strole), blockage of blood vessels in the heart (thear attack a anging nectoris) or other organs of the body. As memondo above, sunbaig increase the risk of the stanck and strokes and subsequent serious medical consequences. Women with migraine also may literate and strokes and subsequent serious medical consequences. Women with migraine also may literate and strokes and subsequent serious medical consequences.

Liver humes, which may rupane and cause severe bleeding. A possible but not definite ociation has been found with the pill and liver cancer. However, liver cancers are extremely care chance of developing liver cancer from using the pill is but sever rarer. High blood pressure, although blood pressure usually returns to normal when the pill is peed.

suppres.

The symptom associated with these serious side effects are discussed in the detailed leaflet give you with your supply of pills. Notify your health-care provider if you mixee any unusual physical submarkers while sings the pill. In addition, days such as rifame, as well as some ambients and some authorities, heretal preparations containing \$1.0 hots Wort (Hypericum perforatum), and HIV/AIDS drugs ungel oversees or all-contrargive effectiveness.

Various suddier give conflicting reports on the relationship between breast carcer and or all contraceptive use.

Oral contraceptive use may slightly increase your chance of having breast cancer diagnosed, particularly if you started using hormonal contraceptives at a younger age.

After you stop using hormonal contraceptives, the chances of having breast cancer diagnosed begin to go down and disappear 10 years after stopping use of the pill. It is not known whether this slightly

increased risked howing breast course diagoned is coursed by from juil. It may be due women taking the guill were examined more those how the trust course was more likely to be deterred. You should have regular breast examination by a health-care provider and examine your coun breast. You should have regular breast examination by a health-care provider of you have a family history of breast care or of you have be breast ordered or an abnormal mammagram. Women who currently have or have had breast career is underly a horizon-examination when the provider of the provide

Some studies have found an increase in the incidence of cancer of the cervix in women who use ora contraceptives. However, this finding may be related to factors other than the use of oral

Taking the pill provides some important noncontraceptive benefits. These include less painful menstruation, less menstrual blood loss and anemia, fewer pelvic infections, and fewer cancers of the ovary and the liming of the uterus.

ovary and the Imang of the uterus. Be sure to discuss symmetical condition you may have with your health-care provider. Your healt care provider will take a medical and family bistory before prescribing on all contraceptives and will care provider believes that it is appropriate prospose. It was should be reveamined at least once year while laking oral contraceptives. The detailed patient information helder laked to the contraction of the information which jobs should read and discuss with your health-care provider.

# HOW TO TAKE LEVONORGESTREL AND ETHINYL ESTRADIOL TABLETS

IMPORTANT POINTS TO REMEMBER BEFORE YOU START TAKING LEVONORGESTREL AND ETHINYL ESTRADIOL TABLETS:

2. 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. See "WHAT TO DO IF YOU MISS PILLS" below.

3. MANY WOMEN HAVE SPOTTING OR LIGHT BLEEDING, OR MAY FEEL SICK TO THEIR STOMACH DURING THE FIRST 1-3 PACKS OF PILLS.

THEME STOMACH DURINGT THE FIRST 1-3 PACKS OF PILLS.

If you feel sick is your stomach, do not stop tailing theoroungested and ethingle sarradio tables. The problem will usually go away. If it doesn't go away, etck with your health-care provider.

4. MISSING PILLS CAN ALSO CALUES SHOTTING OR ILGIST BLEEDING, even when you make up there instead pills.

On the days you take 2 pills to make up for missed pills, you could also feel a little sick to your stomach.

ssentent.

If YOU HAVE VOMITING (within 4 hours after you take your pill), you should follow the instruction for WHAT TO DO IF YOU MISS.PILLS, IF YOU HAVE DIARRIEA or IF YOU TAKE SOME MEDICINES; including one ambilities; your pills may not work as well.

Use a back-up nonhormonal method (such as condoms or spermicide) until you check with your health-care provider.

Case powder.

6. IF YOU HAVE TROUBLE REMEMBERING TO TAKE THE PILL, talk to your health-care provider about now to make pill-taking easier or about using another method of birth control.

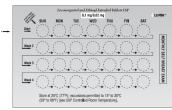
7. IF YOU HAVE ANY QUESTIONS OR ARE UNSURE ABOUT THE INFORMATION IN THIS LEAFLET, call your health-care provider.

# BEFORE YOU START TAKING LEVONORGESTREL AND ETHINYL ESTRADIOL TABLETS

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

2. LOOK AT YOUR PILL PACK.

The pill pack has 21 "active" white pills (with hormones) to take for 3 weeks, followed by 1 week of reminder orange pills (without hormones).



# 4. BE SURE YOU HAVE READY AT ALL TIMES:

AN EXTRA. FULL PILL PACK.

# \* For use of day labels, see WHEN TO START THE FIRST PACK OF PILLS below. WHEN TO START THE FIRST PACK OF PILLS

on. Pick a time of day which will be

DAY 1 START

1. Take the first "active" white pill of the first pack during the first 24 hours of your period.

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

SUNDAY START

1. Take the first "active" white pill of the first pack on the Sunday after your period starts, even if you are still believing. If your period begins on Sunday, start the pack that same day.

2. Use a montermound method of birth control (such as condumon symetricide) as a back-up method if you have see a suptime from the Sunday you sant you first pack until the next Sunday (7 days).

# WHAT TO DO DURING THE MONTH

Take one pill at the same time every day until the pack is empty

1. Tale one pill at the same time every day until the pack is empty.

Do not skip pills reveri fyou are sponting or therednigh between monthly periods or stornech (numera).

Do not skip pills reverif you do not shave sex every often.

2. When you firsth a pack:

Start the rest pack on the day fairer your last "resintler" pill. Do not vaid any days!

IF YOU SWITCH FROM ANOTHER BRAND OF COMBINATION PILLS.

If your previous brand had 21 pilk: Wait 7 days to start taking levonregetrel and ethinyl estradiol tables. You will probably have your period during that week. Be sure that no more than 7 days pass between the 21-day pack and taking the first white levonorgestrel and ethinyl estradiol tablets ("active" with hormore).

normone).

If your previous brand had 28 pills: Start taking the first white levonorgestrel and ethinyl estradiol tablets ("active" with hormone) on the day after your last reminder pill. Do not wait any days between packs.

# WHAT TO DO IF YOU MISS PILLS

evonorgestrel and ethinyl estradiol tablets may not be as effective if you miss white "active" pills, and particularly if you miss the first few or the last few white "active" pills in a pack.

if you MISS 1 white "active" pill: 1. Take it as soon as you remember. Take the next pill at your regular time. This means you may take 2

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

I'vou MSS 2 whis "active" pills in a row in WEEK 1 OR WEEK 2 of your pack

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

2. Then take 1 pill a day wull you finish the pack

3. You COULD BECOME PRECNANT if you have set in the 7 days after you restart your pills. You
MKST use a nonthormoul brither court to meed (such as contones or spermic (sk)) as a back-up for

If you MISS 2 white "active" pills in a row in THE 3rd WEEK:

If you MSS 2 white "active" pills in a row in THE 3rd WEEK:

1. Hyou are a Sunday Starter.

THROW OUT the rest of the pill pack and start a new pack that same day.

Hyou are a Sunday Starter.

Seep pilling 1 pill pack and start a new pack that same day.

On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

2. You may not have you period that must be that is a respected.

However, if you risks your period 2 months in a row, call your health-care provider because you might be pregnant.

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

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

If you are a Day I Starter:

THROW OUT the rest of the pill pack and start a new pack that same day.

If you are a Sunday Starter:

If you are a Sunday Starter:

Keep taking I pill every day until Sunday.

On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

2. You may not have your period this month but this is expected.

However, if you miss your period 2 muths in a row, call your health-care provider became you might be pregatur.

You COULD BECOME PREGNANT if you have sex in the 7 days after you restart your pills.

UST use a nonhormonal birth-control method (such as condoms or spermicide) as a back-up for

If you forget any of the 7 orange "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 nonhormonal birth-control method if you start your next pack on time.

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

MISSED

We a BACK-UP NONHORMONAL BIRTH-CONTROL METHOD agridine you have see.

KEEP TAKING ONE PILL EACH DAY unit you can reach your health-care provider.

BIRTH CONTROL AFTER TOPPING THE PILL

If you do not wish to become pregnat after stopping the pill, speak to your health-care provider about another method of birth cosmol.

## DETAILED PATIENT LABELING

This product (like all oral contraceptives) is intended to prevent pregnancy. Oral contraceptiv do not protect against trans mission of HIV (AIDS) and other sexually transmitted diseases (STDs) such as chlamydia, genital herpes, genital warts, gonorrhea, hepatitis B, and syphiis. INTRODUCTION

NTRODUCTION

Any woman who considers using oral contraceptives (the "birth-control pill" or "the pill") should understand the benefits and risks of using this form of brint control. This leaflet will give you mach of the information you will need to make this decision and will also help you determine if you are art is to you are in the information you will used to make the decision and will also help you determine if you are art is to will be as effective as possible. However, this leaflet is not a replacement for a certiful discussion between you and you be health care providers, Vost bound discuss on information provided in this leaflet with himsor her, both when you first start taking the gill and during your revisits. You should also collow your bendless ere provider's advice with regard to regate the cheeps while you are on the pill. EFFECTIVENESS OF ORAL CONTRACEPTIVES

Ord commensus or "birth-control pills" or the pill, "are used to prevent preguncy and are more effective than must other munaripal in the bade of a link control. When they are a slant correctly, without overall pills of the pills, and the pills of the

In comparison, average failure rates for other methods of birth control during the first year of use are as follows:

IUD: 0.1-2%	Female condom alone: 21%
Depo-Provera® (injectable progestogen): 0.3%	Cervical cap
Norplant® System (levonorgestrel implants): 0.05%	Never given birth: 20%
Diaphragm with spermicides: 20%	Given birth: 40%
Spermicides alone: 26%	Periodic abstinence: 25%
Male condomalone: 14%	No methods: 85%

# WHO SHOULD NOT TAKE ORAL CONTRACEPTIVES

# Egarette smoking increases the risk of serious adverse effects on the heart and blood vessels from oral-contraceptive use. This risk increases with age and with the amount of smoking (15 or more cigarettes per day has been associated with a significantly increased risk) and is quite marked in women over 35 years of age. Women who use oral contraceptives should not smoke,

- Eigenetic smaking increases the risk of reviews adverse effects on the heart and blood vessels for some womens should not use the pill. For example, you should not take the pill if you have any of the following conditions.

  Blood closs in the legs (thromopalhebits), lungs (pulmonary embolism), or eyes.

  A bissury of blood closs in the deep veins of your legs.

  Chest pain (negling pectors); an experience of the lining of the uterus, cervix or vagins, or certain hormonally-semidive careers.

  Unexplained vaginal beleding (until a diagnosis is reached by your health-care provider).

  Liver tumor federagion cracerrosis or active liver disease.

  Yellowing of the visities of the eyes or of the shin fjundated during pregamety or during previous. Known or suspected pregamety.

  A need for suggery with prolonged bedeves.

  Diadness affecting your circulation.

  Uncorrolled light blood pressure.

  Allergy or hypersensitivity to any of the components of levonorspected and ething testadio labeles. Tell your health-care provider if you have had any of these conditions. Your health-care provider can recommend another method of birth control.

# OTHER CONSIDERATIONS BEFORE TAKING ORAL CONTRACEPTIVES

- Tell your health-care provider if you or any family member has ever had:

  Breast modules, fibrocystic disease of the breast, an abnormal breast X-ray or mammogram

- Diabetes.

  Elevated cholesterol or triglycerides.

  High blood pressure.

  A tendency to form blood clots.

  Migraine or other headaches or epilepsy.

  Depression.

  Gallbladder, liver, heart, or kidney disease.

  History of scanty or irregular menstrual periods.

Women with any of these conditions should be checked often by their health-care provider if they choose to use oral contraceptives. Also, be sure to inform your health-care provider if you smoke or are on any medications.

are on any medications.

Although cardiovascular disease risks may be increased with oral contraceptive use in healthy, mosmiles women over 40 (even with the mever low-dose formulations), there are also greater potential health risks associated with pregunacy in older women.

RISSO OF TAKION GORAL CONTRACEPTIVES

I. Risks Of Developing Blond Class

Blond class and bloog of blond vessels are the most serious side effects of taking oral contraceptives and can cause dendro serious disability. In particular, a clot in the legs can cause dentrobuplishies and a clot that travels to the legs can cause dendro be being can be contracepted to the contract of the contract

thromospherents and a clot that reaves in the injust cranme is tuther about the contribution of the visitor, or impartly visition, or impartly visition.

Users of combination and contraceptives have a higher risk of developing blood clots compared to mouseurs. This risk is highest during the first year of combination and-contraceptives (and the properties of t

Oral contraceptives may increase the tendency to develop strokes or transient ischemic attacks (blockage or nuture of blood vessels in the brain) and angina pectoris and heart attacks (blockage of blood vessels in the heart). Any of these conditions can cause death or serious disability.

Smoking gready increases the possibility of suffering heart attacks and strokes. Furthermore, smoking and the use of oral contraceptives greatly increase the chances of developing and dying of heart disease.

usease.

Women with migraine (especially migraine/headache with neurological symptoms) who take or contraceptives also may be at higher risk of stroke and must not use combination oral contracep (see section WHO SHOULD NOT TAKE ORAL CONTRACEPTIVES).

# Gallbladder Disease

California The Case

contraceptive users probably have a greater risk than nonusers of having gallbladder disease, ugh this risk may be related to pills containing high doses of estrogens. Oral-contraceptives mure existing gallbladder disease or accelerate the development of gallbladder disease in women ustly without symptoms.

# Liver Tumore

4. Liver Tumors
Interest cases, on contraceptives can cause berign but dangerous liver tumors. These berign liver tumors can rupture and cause feal interend bleeding, in addition, a possible but not definite association has been found with the pill and liver can teres in now sandles in which a few vomors who developed these very rare cancers were found to have used onto contraceptives for long periods. However, it cancers are externed year. The chare of developing liver cancer from using the pill is then ever

# Cancer Of The Reproductive Organs And Breasts ious studies give conflicting reports on the relationship betraceptive use.

Oral contraceptive use may slightly increase your chance of having breast cancer diagnosed, particularly if you started using hormonal contraceptives at a younger age.

particularly if you started using hormoul connectories as a good great career diagnosed, After you stop using hormoul connectories, the charges of having breast career diagnosed begin to go down and disappeer if yours after suppling use of the gift. It is no hown whether this slightly go down and disappeer if yours after suppling use of the gift. It is no hown whether this slightly pill were examined more often, so that the east career was more likely to be detected. You dould have regular breast examinations by health-care provider and reastiney more outbreasts monthly. Tell your health-care provider if you have a family bistory of breast career or if you have a horsest models or and another all more provider if you have a family bistory of breast career or if you have a should not use oral conneceptives because breast career is usually a hormon-sensitive namer. Some studies have found an increase in the incidence of career of the erevix is nowned whose or conneceptives. However, this finding may be related to factors other than the use of oral conneceptives.

# Lipid Metabolism And Pancreatiti

re have been reports of increases of blood cholesterol and triglycerides in users of combination contraceptives. Increases in triglycerides have led to inflammation of the pancreas (pancreatitis) in ESTIMATED RISK OF DEATH FROM A BIRTH-CONTROL METHOD OR PREGNANCY

# All methods of birth control and pregnancy are associated with a risk of developing certain diseases which may lead to disability or death. An estimate of the number of deaths associated with different methods of birth control and pregnarcy has been calculated and is shown in the following table. ANNUAL NUMBER OF BIRTH-RELATED OR METHOD-RELATED DEATHS ASSOCIATED WITH CONTROL OF FERTILITY PER 100,000 NONSTERILE WOMEN, BY FERTILITY-CONTROL METHOD AND 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						
nonsmoker <sup>†</sup>	0.3	0.5	0.9	1.9	13.8	31.6
Oral contraceptives						
Smoker <sup>†</sup>	2.2	3.4	6.6	13.5	51.1	117.2
IUD <sup>†</sup>	0.8	8.0	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

compared to 28 associated with pregnucy at that age. However, for pill users who smale and are over the age of 35, the estimuted marker of deaths exceeds those for other methods of brith cosmol. If a women that the continued marker of deaths exceeds those for other methods of brith cosmol. If a women that the continued risk associated with pregnucy (280.000,000 women) in that age group. The organization that women over 40 who do not ranke should not also ord contraceptive is haved on information from both high done gills. An Advisory Committee of the FDA discussed bits issue in 1989 and recommended that the hearlist of ord-contraceptive use by healthy, monumbing women over 40 years of age may ownerly the possible risks. Other women, and women, who there is also contraceptive, should take an ord contraceptive which contain the least amount of estrogen and propertiegoes that is compatible with the individual pariet creek.

- WARNING SIGNALS

  If any of here adverse effects occur while you are taking or al conraceptives, call your health-care provider immediates,

  \*\*Sharp cheet pain, coughing of blood, or sudden shortness of breath (indicating a possible clot in the "Pain in the call functioning a possible clot in the legs).

  \*\*Cruching cheet pain or benviress in the cheet (indicating a possible heart attack).

  \*\*Sudden severe healthe or worning, directives so of tairing, distantances of vision or speech,

  \*\*Sudden partial or complete loss of vision (indicating a possible clot in the vey).

  \*\*Sudden partial or complete loss of vision (indicating a possible clot in the vey).

  \*\*Sudden partial or complete loss of vision (indicating a possible clot in the vey).

  \*\*Deficating in painting possible bereate care or finety-cycle dieses of the breast ask your health-care provider to show you have not examine your breasts).

  \*\*Difficulty in indeping, weakens, lack of energy, fatigue, or change in mood (possibly indicating severe depression).

  \*\*Juntatic or a yeallowing of the skin or eyeballs, accompanied frequently by fever, fatigue, loss of appeals, dash-colored urine, or light-colored bowel movemens (indicating possible bereate).

# SIDE EFFECTS OF ORAL CONTRACEPTIVES

## Unscheduled or Breakthrough Vaginal Bleeding Or Spotting

Unscheduled or Breakthrough Vaginal Bleeding Or Sporting checkhold vaginal beding or sporting moy cerv while you are to taking the pills. Unscheduled eding may vary from slight stating between mentmal periods to breakthrough bleeding which is a design and the pill of the pill of

## 3. Fluid Retention

Oral contraceptives may cause edema (fluid retention) with swelling of the fingers or ankles and may raise your blood pressure. If you experience fluid retention, contact your health-care provider.

A believan.

A Melicana.

A sport delegrating of the skins possible, particularly of the face.

Other skin filters.

Other skin filters

If any of these side effects bother you, call your health-care provider. GENERAL PRECAUTIONS

# GENERAL PRECAUTIONS 1. Missed Periods And Use Of Oral Contraceptives Before Or During Early Pregna

L massed retrom Ana Use Urfast couraceproses neares Ursumag Lawy regulancy There may be time when you may not membrature regularly after you have completed daily age sycle of pills. If you have taken your pills regularly and miss one meantual period, containe taking your pills for pills daily as instructed and missed a membranal period, of it you missed two concentrum emission periods, you may be pregunt. Check with your health-care provider immediately to determine whether you are pregunt. Sho pills grant contractives if you are pregunt. Sho pills grant contractives if you are pregunt. Sho pills grant contractives if you are pregunt. Sho pills grant contractives it you are pregunt. Sho pills grant contractives it you are pregunt. Sho pills grant contractives it you are pregunt. Sho

you are pregant. Sup laking oral contraceptives it you are pregant. There is no conclusive evidence that oral-contraceptive use associated with an increase in lairt defects, when taken indvertently during early pregancy. Previously, a few studies had reported on contraceptives aright be associated with himle defects, when taken indvertently during early pregancy. Previously, a few studies had reported on contraceptives aright be associated with himle defects, the three studies have not been confirm. Nevertheless, oral contraceptives should not be used during pregancy. You should check with healt-care provider about risks to your union relial of any medication taken during pregancy.

# 2. While Breast-Feeding

Z What Breast-Feeding
I you are breast-Feeding
I you are breast-Feeding, countly your health-care provider before starting oral contraceptives. Some
of the drug will be passed onto the child in the milk. A few adverse effects on the child have been
of the drug will be passed on to the child of the milk. A few adverse effects on the child have been
contraceptives milk becast-feeding. You should use another method of contraception since breastoral contraceptives while breast-feeding. You should use another method of contraception since breasteffecting provides only partial protection from becoming pregnant and this partial protection feederses
significantly as you breast-feed for longer periods of time. You should consider starting oral
contraceptives only they you have vesseld you child completely.

# 3. Laboratory Tests

If you are scheduled for any laboratory tests, sell your doctor you are taking birth-control pills. Certain blood tests may be affected by birth-control pills.

# 4. Drug Interactions

4. Drug Interactions
Containing, my interact visit binth-cutrul pills to make them less effective in preventing propancy or case on increase inbreadmough bleeding. Such desga include ridampia drugs used for epilepsy or case on increase inbreadmough bleeding. Such desga include ridampia drugs used for epilepsy such as harbitumest for example, phenolatuski and perhapsivell pilludient is not beared of this drugs, primidized (Mysolite<sup>18</sup>), to picturally one drugs used for (Ergerical<sup>18</sup>) so no brand of this drugs, primidized (Mysolite<sup>18</sup>), modifical (Provigel<sup>19</sup>) and possibly certain ambitionist (such as amplicition and other precisiting, and ready modificate containing and precisiting and ready modification of the properties of th

You should inform your health-care provider about all medicines you are taking, including nonprescription products.

# mitted Diseases

This product (like all oral contraceptives) is intended to prevent pregnancy. It does not protect agains transmission of HIV (AIDS) and other sexually transmitted diseases such as chlamydia, genital herper genital warts, gonorrhea, hepatitis B, and syphilis.

# HOW TO TAKE LEVONORGESTREL AND ETHINYL ESTRADIOL TABLETS

IMPORTANT POINTS TO REMEMBER
BEFORE YOU START TAKING LEVONORGESTREL AND ETHINYL ESTRADIOL TABLETS:

BE SURE TO READ THESE DIRECTIONS Before you start taking levonorgestrel and ethinyl estradiol tablets.

2. THE RIGHT WAY TO TAKE THE PILL IS TO TAKE ONE PILL EVERY DAY AT THE SAME TIME

I four is pills you could get pregnant. This includes starting the pack late. The more pills you me the more likely you are to get pregnant. See "WHAT TO DO IF YOU MISS PILLS" below.

the more likely you are to get pregions. See "WHAT TO DO B" YOU MISS "PILLES below.

3. MANY WOMEN HAVE SOFTTING OR LIGHT BLEEDING, OR MAY FEEL SICK TO THEIR
STOMACH DURING THE RISK! 13 FANCES OF PILLS.

If you feel sick to your stomen, do not stop taking levorangestered and ething lest added tables. The
problem will massly to owne, if it does they away, check with your health-care provider.

4. MISSING PILLS CAN ALSO CAUSE SPOTTING OR LIGHT BLEEDING, even when you make up
there inside pills.

On the days you take 2 pills to make up for missed pills, you could also feel a little sick to your

SSERREM.

IF YOU HAVE VOMITENG (within 4 hours after you take your gill) you should fellow the interactions for WHAT TO DO BYOU MISS PILLS. BYOU HAVE DIARRIER As IF YOU TAKE SOME MEDICENTS, including some antibilities, your gills may not work as well. Use a back-bup mediormonal method (such as condoms or spermicide) until you check with your health-care provider.

care provider.

6. IF YOU HAVE TROUBLE REMEMBERING TO TAKE THE PILL, talk to your health-care provider about how to make pill-taking entier or about using another method of birth control.

7. IF YOU HAVE ANY QUESTIONS OR ARE UNSURE ABOUT THE INFORMATION IN THIS LEAFLET, control your health-care provider.

# BEFORE YOU START TAKING LEVONORGESTREL AND ETHINYL ESTRADIOL TABLETS

I ADLEIS

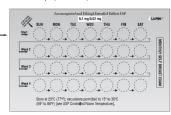
1. DECIDE WHAT TIME OF DAY YOU WANT TO TAKE YOUR PILL. It is important to take it at about the same time every day.

2. LOOK AT YOUR PILL PACK.

The pill pack has 21 "active" white pills (with hormones) to take for 3 weeks, followed by 1 week of reminder orange pills (without hormones).

3. FIND: where on the pack to start taking pills, and

2. in what order to take the pills (follow the arrow).



4. BE SURE YOU HAVE READY AT ALL TIMES:
 ANOTHER KIND OF BIRTH CONTROL (such as condoms or spermicide) to use as a back-up in case you miss pills.

AN EXTRA, FULL PILL PACK.

\* For use of day labels, see WHEN TO START THE FIRST PACK OF PILLS below WHEN TO START THE FIRST PACK OF PILLS

You have a choice of which day to start taking your first pack of pills.

Decide with your health-care provider which is the best day for you. Pick a time of day which will be easy to remember.

- easy to resember.

  DAYL START

  1. Take the first "active" white pill of the first pack during the first 2d hours of your period.

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

  1. Take the first "active" white 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.

2. Use a nonhormonal method of birth control (such as condons or spermicide) as a backup method if you have sex anytime from the Sunday you start your first pack until the next Sunday (7 days).

WHAT TO DO DURING THE MONTH

1. Tale one pill at the same time every day until the pack is empty.

Do not ship pills even if you are spotting or bleeding between monthly periods or feel sick to your someth (money).

Do not skip pills even if you do not have sex very often.

2. When you finish a pack:

# 2. wiren you missia a pack. Start the next pack on the day after your last "reminder" pill. Do not wait any days between packs. IF YOU SWITCH FROM ANOTHER BRAND OF COMBINATION PILLS

If your previous brand had 21 pills: Wait 7 days so start taking leveroring steel and ethinyl estradiol tablets.

If your previous brand had 22 pills: Wait 7 days so start taking leveroring steel and ethinyl estradiol tablets. You will probably have your period during that week. Be sure that no more than 7 days pass between the 21-day pack and taking the first white levonorgestrel and ethinyl estradiol tablets ("active" with hormone).

hormone).

If your previous brand had 28 pills: Start taking the first white levonorgestrel and ethinyl estradiol tablets ("active" with hormone) on the day after your last reminder pill. Do not wait any days between packs.

WHAT TO DO IF YOU MISS PILLS

Levonorgestrel and ethinyl estradiol tablets may not be as effective if you miss white "active" pills, and particularly if you miss the first few or the last few white "active" pills in a pack.

- particularly it you make the river of the last few wine active your and particularly it you MISS I while "active" pill:

  1. Take it is soon as you remember. Take the next pill at your regular time. This mean you may take 2.

  2. Van COULD BECOMER BECKOMN If you have eax in the 7 days after your restart your pills. You MIST use a monhermonal hirth-control method (such as controls or spermicide) as a back-up for those 7 days.

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

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

  2. Then take 1 pill a day until you first the pack.

  3. You COLUDE EXCOMER PECKANT is you have sex in the 7 days after you restart your pills. You MISS use a nonhormound hirth-control method (such as condoms or spermic ide) as a back-up for those 7 days.

If you MISS 2 white "active" pills in a row in THE 3rd WEEK:

If you are a Day 1 Starter:

THROW OUT the rest of the pill pack and start a new pack that same day.

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.

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 health-care provider because you might be treatmat.

ne pregnant.

3. You COULD BECOME PREGNANT if you have sex in the 7 days after you restart yourpills. You MUST use a nonhormonal birth-control method (such as condoms orspermicide) as a back-up for those 7 days.

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

If you are a Day 1 Starter:

1. I you are a lay harmer:

\*\*THROW OUT the rest of the pill pack and start a new pack that same day.

\*\*If you are a Sunday Starter:

\*\*If you are a Sunday Starter:

On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

usey. The OW OUT use less to the grant and sout a few pack to pins but saint day.

You may not have your period this month but this is expected,

ver, if you miss your period 2 months in a row, call your health-care provider because you might

ne pregnant.

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

imose / ogys.

If you forget any of the 7 orange "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 nonhormmal birth-control method if you start yo

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

MISSED
Use a BACK-UP NONHORMONAL BIRTH-CONTROL METHOD unytime you have sex.
KEEP TAKING ONE PILL EACH DAY until you can reach your health-care provider.
PREGNANCY DUE TO PILL FAILURE

PRECNANCY DUE TO PILL FAILURE

The incidence of pill failure resulting in programs; is approximately 1 per year (1 perginney per 100). The incidence of pill failure resulting in programs; in the programs of persons of the pill resulting and the pill result in approximately 50 per year (5 perginnet per 100). The pill result is approximately 50 per year (5 perginnet per 100) and a sharp year (and in pill resulting women who do not always take the pill resulty in a pill result in pill

# BIRTH CONTROL AFTER STOPPING THE PILL

IN IT UON ROLLAFIER STOPPING THE PILL.

If you do not wish be been pregnate after supping the pill, you should use another method of birth control immediately after stopping levonorgesterel and ethingl estradiol tablets. Speak to your health-care provider about another method of birth control.

OVERDOSAGE

# Overdosage may cause nausea, vomiting, breast tenderness, dizziness, abdominal pain and fatigue/drowsiness. Withdrawal bleeding may occur in females. In case of overdosage, contact you health-care provider or pharmicsis.

health-care provider or phart OTHER INFORMATION

OTHER (NORMALI IM).

Vorm health-care provider will take a medical and family history before prescribing oral contraceptive and will examine you. The physical examination may be delayed to another time if you respect it and the contract of the physical examination and the provider of the physical examination and the contract of the physical examination and the contract of the physical examination and the contract of the physical examination in the physical examination and the

Commandation of the drug for any condition other than the one for which it was prescribed. This drug has been prescribed specifically for you; do not give it to others who may want birth-control pills.

HEALTH BENEFITS FROM ORAL CONTRACEPTIVES

HEALTH BENDETTS FROM ORAL CONTRACEPTIVES
In addition to prevering preparaty, use of oral contraceptors may provide certain benefits. They are:

Menneaud cycles may become more regular.

It was not a contract to the second or the second oral to the second oral to the second oral to the second or the second or

If you want more information about birth-control pills, ask your health-care provider or pharmacist. They have a more technical leaflet called the Professional Labeling which you may wish to read.

If you have any questions or want more information about levonorgestrel and ethingl estradiol tablet talk to your health-care provider or pharmacist, address medical queries to <a href="https://www.birthcontrolhealth.">www.birthcontrolhealth.</a> or at 1-800-399-2561. The brands listed are trademarks of their respective owners and are not trademarks of Lupin Pharmaceuticals, Inc. The makers of these brands are not affiliated with and do not endorse Lupin Pharmaceuticals, Inc. or its products.

ID#:245331

Lupin Pharmaceuticals, Inc.

Baltimore, Maryland 21202

United States

Manufactured by Lupin Limited

Pithampur (M.P.) - 454 775

INDIA April 2016

Wallet Label: 28 Tablets



Levonorgestrel and Ethinyl Estradiol Tablets USP, 0.1 mg/0.02 mg

NDC 68180-854-13

Carton Label: 3 Wallets of 28 Tablets Each



		stradiol kit					
Product Information	on						
Product Type	HUM	AN PRESCRIPTION DRI	UG Item	Code (Source)		NDC:5729	7-854
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Active Ingredient/							
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