

## SUMMARY OF PRODUCT CHARACTERISTICS

### 1. NAME OF THE MEDICINAL PRODUCT

Gynera<sup>®</sup>

### 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each tablet contains:

Actives:

Gestodene	75 micrograms
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Ethinylestradiol	30 micrograms
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Excipients:

Lactose	37.23 mg
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Sucrose	19.66 mg
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For full list of excipients, see section 6.1

### 3. PHARMACEUTICAL FORM

Sugar-coated tablets

### 4. CLINICAL PARTICULARS

#### 4.1. Therapeutic indications

Oral contraception.

The decision to prescribe Gynera should take into consideration the individual woman's current risk factors, particularly those for venous thromboembolism (VTE), and how the risk of VTE with Gynera compares with other combined hormonal contraceptives (CHCs) (see sections 4.3 and 4.4).

#### 4.2. Posology and method of administration

*First treatment cycle:* 1 tablet daily for 21 days, starting on the first day of the menstrual cycle. Contraceptive protection begins immediately.

*Subsequent cycles:* Tablet taking from the next pack of Gynera is continued after a 7-day interval, beginning on the same day of the week as the first pack.

*Changing from 21-day combined oral contraceptives:* The first tablet of Gynera should be taken on the first day immediately after the end of the previous oral contraceptive course. Additional contraceptive precautions are not required.

*Changing from a combined Every Day pill (28 day tablets):*

Gynera should be started after taking the last active tablet from the Every Day Pill pack. The first Gynera tablet is taken the next day. Additional contraceptive precautions are not then required.

*Changing from a progestogen-only pill (POP):*

The first tablet of Gynera should be taken on the first day of bleeding, even if a POP has already been taken on that day. Additional contraceptive precautions are not then required. The remaining progestogen-only pills should be discarded.

*Post-partum and post-abortion use:* After pregnancy, oral contraception can be started 21 days after a vaginal delivery, provided that the patient is fully ambulant and there are no puerperal complications. Additional contraceptive precautions will be required for the first 7 days of tablet taking. Since the first post-partum ovulation may precede the first bleeding, another method of contraception should be used in the interval between childbirth and the first course of tablets. After a first-trimester abortion, oral contraception may be started immediately in which case no additional contraceptive precautions are required.

*Special circumstances requiring additional contraception*

*Incorrect administration:* A single delayed tablet should be taken as soon as possible, and if this can be done within 12 hours of the correct time, contraceptive protection is maintained. With longer delays, additional contraception is needed. Only the most recently delayed tablet should be taken, earlier missed tablets being omitted, and additional non-hormonal methods of contraception (except the rhythm or temperature methods) should be used for the next 7 days, while the next 7 tablets are being taken. Additionally, therefore, if tablet(s) have been missed during the last 7 days of a pack, there should be no break before the next pack is started. In this situation, a withdrawal bleed should not be expected until the end of the second pack. Some breakthrough bleeding may occur on tablet taking days but this is not clinically significant. If the patient does not have a withdrawal bleed during the tablet-free interval following the end of the second pack, the possibility of pregnancy must be ruled out before starting the next pack.

*Gastro-intestinal upset:* Vomiting or diarrhoea may reduce the efficacy of oral contraceptives by preventing full absorption. If vomiting or diarrhoea occurs within 4 hours of taking Gynera tablet-taking from the current pack should be continued. Additional non-hormonal methods of contraception (except the rhythm or temperature methods) should be used during the gastro-intestinal upset and for 7 days following the upset. If these 7 days overrun the end of a pack, the next pack should be started without a break. In this situation, a withdrawal bleed should not be expected until the end of the second pack. If the patient does not have a withdrawal bleed during the tablet-free interval following the end of the second pack, the possibility of pregnancy must be ruled out before starting the next pack. Other methods of contraception should be considered if the gastro-intestinal disorder is likely to be prolonged.

Children: Not applicable.

Elderly: Not applicable.

#### **4.3. Contraindications**

Combined hormonal contraceptives (CHCs) should not be used in the following conditions. Should any of the conditions appear for the first time during CHC use, the product should be stopped immediately.

- Presence or risk of venous thromboembolism (VTE)
  - Venous thromboembolism – current VTE (on anticoagulants) or history of (e.g. deep venous thrombosis [DVT] or pulmonary embolism [PE])
  - Known hereditary or acquired predisposition for venous thromboembolism, such as APC-resistance, (including Factor V Leiden), antithrombin-III-deficiency, protein C deficiency, protein S deficiency
  - Major surgery with prolonged immobilisation (see section 4.4)
  - A high risk of venous thromboembolism due to the presence of multiple risk factors (see section 4.4)
- Presence or risk of arterial thromboembolism (ATE)
  - Arterial thromboembolism – current arterial thromboembolism, history of arterial thromboembolism (e.g. myocardial infarction) or prodromal condition (e.g. angina pectoris)
  - Cerebrovascular disease – current stroke, history of stroke or prodromal condition (e.g. transient ischaemic attack, TIA)
  - Known hereditary or acquired predisposition for arterial thromboembolism, such as hyperhomocysteinaemia and anti-phospholipid antibodies (anticardiolipin-antibodies, lupus anticoagulant)
  - History of migraine with focal neurological symptoms
  - A high risk of arterial thromboembolism due to multiple risk factors (see section 4.4) or to the presence of one serious risk factor such as:
    - diabetes mellitus with vascular symptoms
    - severe hypertension
    - severe dyslipoproteinaemia
- Presence or history of severe hepatic disease, e.g. active viral hepatitis and severe cirrhosis, as long as liver function values have not returned to normal.
- Presence or history of liver tumours (benign or malignant).
- Current or history of breast cancer.
- Hypersensitivity to the active substance(s) or to any of the excipients.

Gynera is contraindicated for concomitant use with the medicinal products containing ombitasvir / paritaprevir / ritonavir and dasabuvir, medicinal products containing glecaprevir / pibrentasvir or sofosbuvir / velpatasvir / voxilaprevir (see section 4.5).

Relevant UK clinical guidance should also be consulted.

#### **4.4. Special warnings and precautions for use**

##### **Warnings**

- If any of the conditions or risk factors mentioned below is present, the suitability of Gynera should be discussed with the woman.
- In the event of aggravation, or first appearance of any of these conditions or risk factors, the woman should be advised to contact her doctor to determine whether the use of Gynera should be discontinued.

### **Risk of venous thromboembolism (VTE)**

The use of any combined hormonal contraceptive (CHC) increases the risk of venous thromboembolism (VTE) compared with no use. **Products that contain levonorgestrel, norgestimate or norethisterone are associated with the lowest risk of VTE. Other products such as Gynera may have up to twice this level of risk. The decision to use any product other than one with the lowest VTE risk should be taken only after a discussion with the woman to ensure she understands the risk of VTE with Gynera, how her current risk factors influence this risk, and that her VTE risk is highest in the first ever year of use. There is also some evidence that the risk is increased when a CHC is re-started after a break in use of 4 weeks or more.**

In women who do not use a CHC and are not pregnant, about 2 out of 10,000 will develop a VTE over the period of one year. However, in any individual woman the risk may be far higher, depending on her underlying risk factors (see below).

It is estimated<sup>1</sup> that out of 10,000 women who use a CHC containing gestodene between 9 and 12 women will develop a VTE in one year; this compares with about 6<sup>2</sup> in women who use a levonorgestrel-containing CHC.

In both cases, the number of VTEs per year is fewer than the number expected during pregnancy or in the postpartum period.

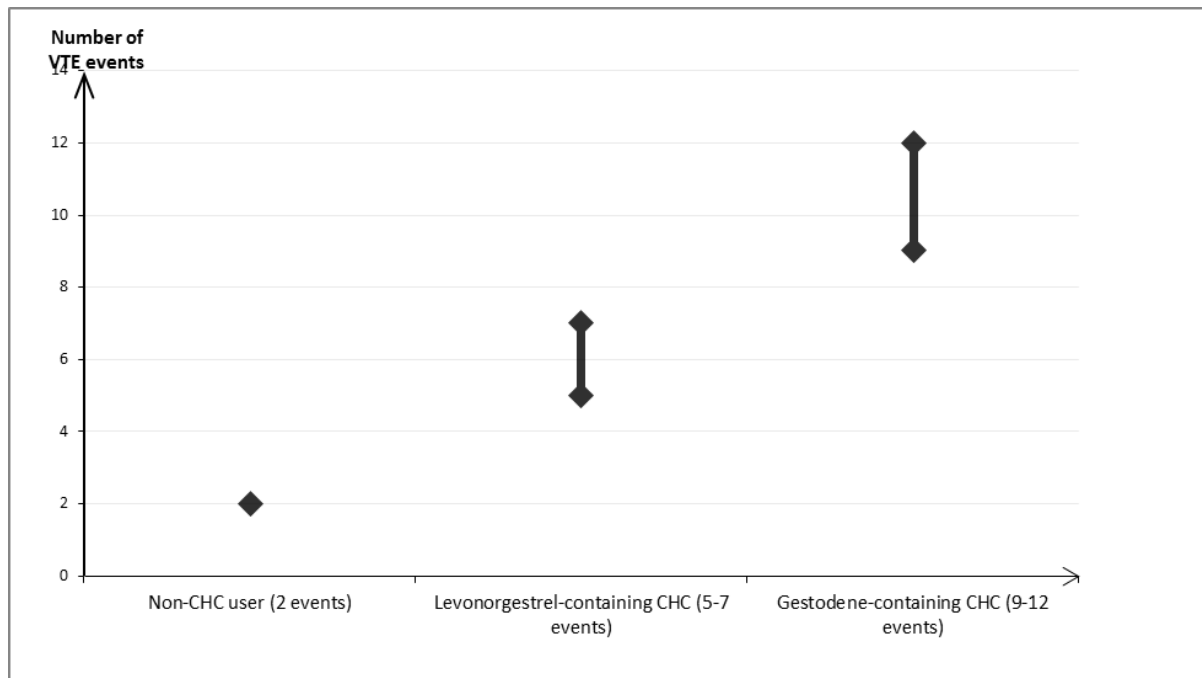
VTE may be fatal in 1-2% of cases.

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<sup>1</sup> These incidences were estimated from the totality of the epidemiological study data, using relative risks for the different products compared with levonorgestrel-containing CHCs.

<sup>2</sup> Mid-point of range of 5-7 per 10,000 WY, based on a relative risk for CHCs containing levonorgestrel versus non-use of approximately 2.3 to 3.6.

### Number of VTE events per 10,000 women in one year



Extremely rarely, thrombosis has been reported to occur in CHC users in other blood vessels, e.g. hepatic, mesenteric, renal, cerebral or retinal veins and arteries.

### **Risk factors for VTE**

The risk for venous thromboembolic complications in CHC users may increase substantially in a woman with additional risk factors, particularly if there are multiple risk factors (see table).

Gynera is contraindicated if a woman has multiple risk factors that put her at high risk of venous thrombosis (see section 4.3). If a woman has more than one risk factor, it is possible that the increase in risk is greater than the sum of the individual factors – in this case her total risk of VTE should be considered. If the balance of benefits and risks is considered to be negative a CHC should not be prescribed (see section 4.3).

**Table: Risk factors for VTE**

Risk factor	Comment
Obesity (body mass index over 30 kg/m <sup>2</sup> )	Risk increases substantially as BMI rises. Particularly important to consider if other risk factors also present.
Prolonged immobilisation, major surgery, any surgery to the legs or pelvis, neurosurgery, or major trauma  Note: temporary immobilisation including air travel >4 hours can	In these situations it is advisable to discontinue use of the pill (in the case of elective surgery at least four weeks in advance) and not resume until two weeks after complete remobilisation. Another method of contraception should be used to avoid unintentional pregnancy.

also be a risk factor for VTE, particularly in women with other risk factors	Antithrombotic treatment should be considered if Gynera has not been discontinued in advance.
Positive family history (venous thromboembolism ever in a sibling or parent especially at a relatively early age e.g. before 50).	If a hereditary predisposition is suspected, the woman should be referred to a specialist for advice before deciding about any CHC use.
Other medical conditions associated with VTE	Cancer, systemic lupus erythematosus, haemolytic uraemic syndrome, chronic inflammatory bowel disease (Crohn's disease or ulcerative colitis) and sickle cell disease.
Increasing age	Particularly above 35 years.

There is no consensus about the possible role of varicose veins and superficial thrombophlebitis in the onset or progression of venous thrombosis.

The increased risk of thromboembolism in pregnancy, and particularly the 6 week period of the puerperium, must be considered (for information on “Pregnancy and lactation” see Section 4.6).

### **Symptoms of VTE (deep vein thrombosis and pulmonary embolism)**

In the event of symptoms women should be advised to seek urgent medical attention and to inform the healthcare professional that she is taking a CHC.

Symptoms of deep vein thrombosis (DVT) can include:

- unilateral swelling of the leg and/or foot or along a vein in the leg;
- pain or tenderness in the leg which may be felt only when standing or walking,
- increased warmth in the affected leg; red or discoloured skin on the leg.

Symptoms of pulmonary embolism (PE) can include:

- sudden onset of unexplained shortness of breath or rapid breathing;
- sudden coughing which may be associated with haemoptysis;
- sharp chest pain;
- severe light headedness or dizziness;
- rapid or irregular heartbeat.

Some of these symptoms (e.g. “shortness of breath”, “coughing”) are non-specific and might be misinterpreted as more common or less severe events (e.g. respiratory tract infections).

Other signs of vascular occlusion can include: sudden pain, swelling and slight blue discoloration of an extremity.

If the occlusion occurs in the eye symptoms can range from painless blurring of vision which can progress to loss of vision. Sometimes loss of vision can occur almost immediately.

## **Risk of arterial thromboembolism (ATE)**

Epidemiological studies have associated the use of CHCs with an increased risk for arterial thromboembolism (myocardial infarction) or for cerebrovascular accident (e.g. transient ischaemic attack, stroke). Arterial thromboembolic events may be fatal.

### **Risk factors for ATE**

The risk of arterial thromboembolic complications or of a cerebrovascular accident in CHC users increases in women with risk factors (see table). Gynera is contraindicated if a woman has one serious or multiple risk factors for ATE that puts her at high risk of arterial thrombosis (see section 4.3). If a woman has more than one risk factor, it is possible that the increase in risk is greater than the sum of the individual factors - in this case her total risk should be considered. If the balance of benefits and risks is considered to be negative a CHC should not be prescribed (see section 4.3).

**Table: Risk factors for ATE**

<b><u>Risk factor</u></b>	<b><u>Comment</u></b>
Increasing age	Particularly above 35 years
Smoking	Women should be advised not to smoke if they wish to use a CHC. Women over 35 who continue to smoke should be strongly advised to use a different method of contraception.
Hypertension	
Obesity (body mass index over 30 kg/m <sup>2</sup> )	Risk increases substantially as BMI increases. Particularly important in women with additional risk factors
Positive family history (arterial thromboembolism ever in a sibling or parent especially at relatively early age e.g. below 50).	If a hereditary predisposition is suspected, the woman should be referred to a specialist for advice before deciding about any CHC use
Migraine	An increase in frequency or severity of migraine during CHC use (which may be prodromal of a cerebrovascular event) may be a reason for immediate discontinuation
Other medical conditions associated with adverse vascular events	Diabetes mellitus, hyperhomocysteinaemia, valvular heart disease and atrial fibrillation, dyslipoproteinaemia and systemic lupus erythematosus.

### **Symptoms of ATE**

In the event of symptoms women should be advised to seek urgent medical attention and to inform the healthcare professional that she is taking a CHC.

Symptoms of a cerebrovascular accident can include:

- sudden numbness or weakness of the face, arm or leg, especially on one side of the body;
- sudden trouble walking, dizziness, loss of balance or coordination;
- sudden confusion, trouble speaking or understanding;
- sudden trouble seeing in one or both eyes;
- sudden, severe or prolonged headache with no known cause;
- loss of consciousness or fainting with or without seizure.

Temporary symptoms suggest the event is a transient ischaemic attack (TIA).

Symptoms of myocardial infarction (MI) can include:

- pain, discomfort, pressure, heaviness, sensation of squeezing or fullness in the chest, arm, or below the breastbone;
- discomfort radiating to the back, jaw, throat, arm, stomach;
- feeling of being full, having indigestion or choking;
- sweating, nausea, vomiting or dizziness;
- extreme weakness, anxiety, or shortness of breath;
- rapid or irregular heartbeats.

#### Medical Examination/Consultation

Prior to the initiation or reinstitution of Gynera a complete medical history (including family history) should be taken and pregnancy must be ruled out. Blood pressure should be measured and a physical examination should be performed, guided by the contra-indications (see section 4.3) and warnings (see section 4.4). It is important to draw a woman's attention to the information on venous and arterial thrombosis, including the risk of Gynera compared with other CHCs, the symptoms of VTE and ATE, the known risk factors and what to do in the event of a suspected thrombosis.

The woman should also be instructed to carefully read the user leaflet and to adhere to the advice given. The frequency and nature of examinations should be based on established practice guidelines and be adapted to the individual woman.

Women should be advised that hormonal contraceptives do not protect against HIV infections (AIDS) and other sexually transmitted diseases.

Undiagnosed vaginal bleeding that is suspicious for underlying conditions should be investigated.



### Conditions which require strict medical supervision

The decision to prescribe the COC must be made using clinical judgement and in consultation with the woman. Exacerbation or first appearance of any of these conditions may indicate that use of the oral contraceptive should be discontinued:

- Diabetes mellitus with mild vascular disease or mild nephropathy, retinopathy or neuropathy
- Hypertension that is adequately controlled, i.e. systolic >140 to 159 mm Hg or diastolic > 90 to 94mmHg (see also Section 4.4 'Reasons for stopping oral contraception immediately')
- porphyria
- obesity
- migraine
- cardiovascular diseases

### **Reasons for stopping oral contraception immediately:**

When stopping oral contraception non-hormonal contraception should be used to ensure contraceptive protection is maintained.

1. Occurrence for the first time, or exacerbation, of migrainous headaches or unusually frequent or unusually severe headaches
2. Sudden disturbances of vision, of hearing or other perceptual disorders
3. First signs of thrombosis or blood clots (e.g. unusual pains in or swelling of the leg(s), stabbing pains on breathing or coughing for no apparent reason). Feeling of pain and tightness in the chest
4. At least four weeks before an elective major operation (e.g. abdominal, orthopaedic), any surgery to the legs, medical treatment for varicose veins or prolonged immobilisation, e.g. after accidents or surgery. Do not restart until 2 weeks after full ambulation. In case of emergency surgery, thrombotic prophylaxis is usually indicated e.g. subcutaneous heparin
5. Onset of jaundice, hepatitis, itching of the whole body
6. Significant rise in blood pressure
7. Severe upper abdominal pain or liver enlargement
8. Clear exacerbation of conditions known to be capable of deteriorating during oral contraception or pregnancy (see section 4.4 'Conditions which deteriorate in pregnancy or during previous COC use' under 'Other conditions')

### Tumours

Numerous epidemiological studies have been reported on the risks of ovarian, endometrial, cervical and breast cancer in women using combined oral contraceptives. The evidence is clear that high dose combined oral contraceptives offer substantial protection against both

ovarian and endometrial cancer. However, it is not clear whether low dose COCs confer protective effects to the same level.

- Breast cancer

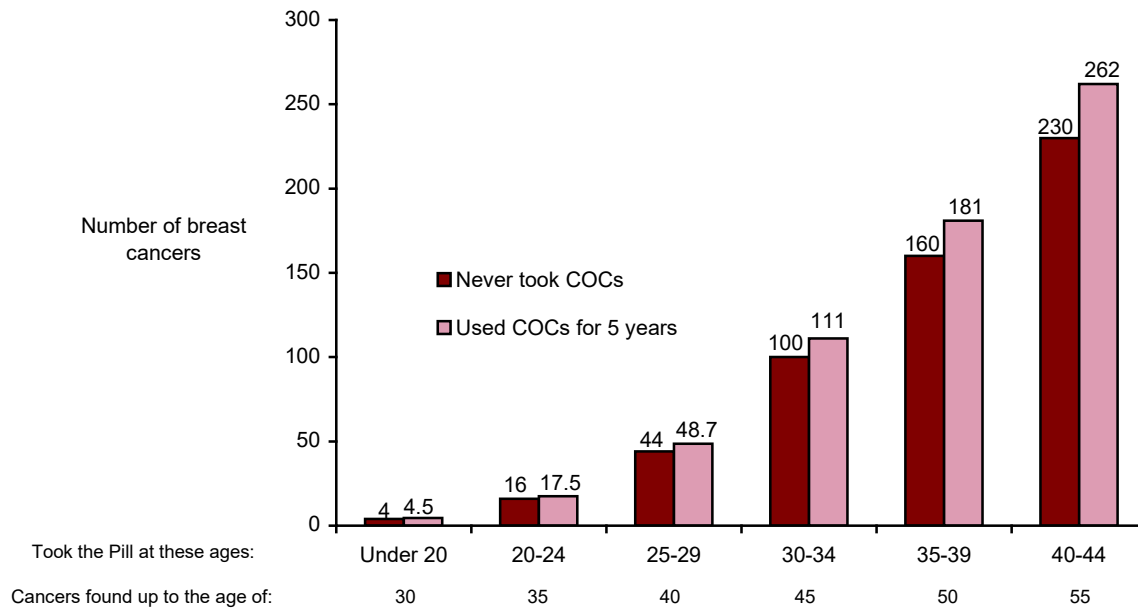
A meta-analysis from 54 epidemiological studies reported that there is a slightly increased relative risk ( $RR = 1.24$ ) of having breast cancer diagnosed in women who are currently using combined oral contraceptives (COCs). The observed pattern of increased risk may be due to an earlier diagnosis of breast cancer in COC users, the biological effects of COCs or a combination of both. The additional breast cancers diagnosed in current users of COCs or in women who have used COCs in the last ten years are more likely to be localised to the breast than those in women who never used COCs.

Breast cancer is rare among women under 40 years of age whether or not they take COCs. Whilst this background risk increases with age, the excess number of breast cancer diagnoses in current and recent COC users is small in relation to the overall risk of breast cancer (see bar chart).

The most important risk factor for breast cancer in COC users is the age women discontinue the COC; the older the age at stopping, the more breast cancers are diagnosed. Duration of use is less important and the excess risk gradually disappears during the course of the 10 years after stopping COC use such that by 10 years there appears to be no excess.

The possible increase in risk of breast cancer should be discussed with the user and weighed against the benefits of COCs taking into account the evidence that they offer substantial protection against the risk of developing certain other cancers (e.g. ovarian and endometrial cancer).

Estimated cumulative numbers of breast cancers per 10,000 women diagnosed in 5 years of use and up to 10 years after stopping COCs, compared with numbers of breast cancers diagnosed in 10,000 women who had never used COCs



- Cervical Cancer

The most important risk factor for cervical cancer is persistent HPV infection. Some epidemiological studies have indicated that long-term use of COCs may further contribute to this increased risk but there continues to be controversy about the extent to which this finding is attributable to confounding effects, e.g., cervical screening and sexual behaviour including use of barrier contraceptives.

- Liver Cancer

In rare cases benign and, in even rarer cases, malignant liver tumours leading in isolated cases to life-threatening intra-abdominal haemorrhage have been observed after the use of hormonal substances such as those contained in Gynera. If severe upper abdominal complaints, liver enlargement or signs of intra-abdominal haemorrhage occur, the possibility of a liver tumour should be included in the differential diagnosis.

### Other conditions

The possibility cannot be ruled out that certain chronic diseases may occasionally deteriorate during the use of combined oral contraceptives.

- Known hyperlipidaemia

Women with hypertriglyceridemia, or a family history thereof, may be at an increased risk of pancreatitis when using COCs.

Women with hyperlipidaemias are at an increased risk of arterial disease (see section 4.4 ‘Circulatory disorders’). However routine screening of women on COCs is not appropriate.

- Blood pressure

Hypertension is a risk factor for stroke and myocardial infarction (see section 4.4 ‘Arterial thromboembolic-related conditions’). Although small increases in blood pressure have been reported in many women taking COCs, clinically relevant increases are rare. However, if sustained hypertension develops during the use of a COC, antihypertensive treatment should normally be instigated at a level of 160/100 mm Hg in uncomplicated patients or at 140/90 mm Hg in those with target organ damage, established cardiovascular disease, diabetes or with increased cardiovascular risk factors. Decisions about the continued use of the COC should be made at lower BP levels, and alternative contraception may be advised.

- Conditions which deteriorate in pregnancy or during previous COC use

The following conditions have been reported to occur or deteriorate with both pregnancy and COC use. Consideration should be given to stopping Gynera if any of the following occur during use:

- jaundice and/or pruritus related to cholestasis
- COCs may increase the risk of gallstone formation and may worsen existing disease
- systemic lupus erythematosus
- herpes gestationis
- otosclerosis-related hearing loss
- sickle cell anaemia
- renal dysfunction
- hereditary angioedema
- any other condition an individual woman has experienced worsening of during pregnancy or previous use of COCs.

- Angioedema

Exogenous oestrogens may induce or exacerbate symptoms of hereditary and acquired angioedema

- Disturbances of liver function

Acute or chronic disturbances of liver function may necessitate the discontinuation of COC use until markers of liver function return to normal.

- Diabetes (without vascular involvement)

Insulin-dependent diabetics without vascular disease can use COCs. However it should be remembered that all diabetics are at an increased risk of arterial disease and this should be considered when prescribing COCs. Diabetics with existing vascular disease are contraindicated from using COCs (see section 4.3 Contraindications).

Although COCs may have an effect on peripheral insulin resistance and glucose tolerance, there is no evidence for a need to alter the therapeutic regimen in diabetics using low-dose COCs (containing < 0.05 mg ethinylestradiol). However, diabetic women should be carefully observed while taking COCs.

- Psychiatric Disorders

Depressed mood and depression are well-known undesirable effects of hormonal contraceptive use (see section 4.8). Depression can be serious and is a well-known risk factor for suicidal behaviour and suicide. Women should be advised to contact their physician in case of mood changes and depressive symptoms, including shortly after initiating the treatment.

- Chloasma

Chloasma may occasionally occur, especially in women with a history of chloasma gravidarum. Women with a tendency to chloasma should avoid exposure to the sun or ultraviolet radiation whilst taking COCs.

- Menstrual Changes

*Reduction of menstrual flow:* This is not abnormal and it is to be expected in some patients. Indeed, it may be beneficial where heavy periods were previously experienced.

*Missed menstruation:* Occasionally, withdrawal bleeding may not occur at all. If the tablets have been taken correctly, pregnancy is very unlikely. If withdrawal bleeding fails to occur at the end of a second pack, the possibility of pregnancy must be ruled out before resuming with the next pack.

*Intermenstrual bleeding:* Irregular bleeding (spotting or breakthrough bleeding) may occur especially during the first months of use. Therefore, the evaluation of any irregular bleeding is only meaningful after an adaptation interval of about three cycles. If bleeding irregularities persist or occur after previously regular cycles, then non-hormonal causes should be considered and adequate diagnostic measures are indicated to exclude malignancy or pregnancy. This may include curettage.

Some women may experience amenorrhoea or oligomenorrhoea after discontinuation of oral contraceptives, especially when these conditions existed prior to use. Women should be informed of this possibility.

- Lactose, Sucrose and Sodium Intolerance

Each tablet of this medicinal product contains 37.43 mg lactose and 19.660 mg sucrose per tablet. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency, fructose intolerance or glucose-galactose malabsorption or sucrase-isomaltase should not take this medicine.

This medicine contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially 'sodium-free'.

#### 4.5. Interaction with other medicinal products and other forms of interaction

Note: The prescribing information of concomitant medications should be consulted to identify potential interactions.

##### Enzyme inducers

Interactions can occur with drugs that induce microsomal enzymes (especially cytochrome P450 3A4) which can result in increased clearance of sex hormones and which may lead to breakthrough bleeding and/or contraceptive failure.

Enzyme induction can already be observed after a few days of treatment. Maximal enzyme induction is generally seen within a few weeks. After the cessation of drug therapy enzyme induction may be sustained for about 4 weeks.

Women on short term treatment with any of these drugs should temporarily use a barrier method in addition to the COC or choose another method of contraception. The barrier method should be used during the time of concomitant drug administration and for 28 days after their discontinuation. If the period during which the barrier method is used runs beyond the end of a pack, the next pack should be started without a break. In this situation, a withdrawal bleed should not be expected until the end of the second pack. If the patient does not have a withdrawal bleed during the tablet-free interval following the end of the second pack, the possibility of pregnancy must be ruled out before resuming with the next pack.

For women receiving long-term therapy with enzyme inducers, another method of contraception should be used.

The following have been shown to have clinically important interactions with COCs:

*Anticonvulsants:* barbiturates (including phenobarbitone), primidone, phenytoin, carbamazepine, oxcarbazepine, topiramate.

*Antibiotics/antifungals:* griseofulvin, rifampicin.

*Herbal remedies:* St John's wort (*Hypericum perforatum*)

*Antiretroviral agents:* ritonavir, nelfinavir, nevirapine.

Note: There are other antiretroviral agents that may increase plasma concentration of sex hormones.

##### *Substances decreasing the clearance of COCs (enzyme inhibitors)*

Strong and moderate CYP3A4 inhibitors such as azole antifungals (e.g. itraconazole, voriconazole, fluconazole) and macrolides (e.g. erythromycin) can increase plasma concentrations of the oestrogen or the progestin or both.

Etoricoxib doses of 60 to 120 mg/day have been shown to increase plasma concentrations of ethinylestradiol 1.4 to 1.6-fold, respectively when taken concomitantly with a combined hormonal contraceptive containing 0.035 mg ethinylestradiol.

##### Effects on other drugs

Oral contraceptives may affect the metabolism of certain other drugs. Accordingly, plasma and tissue concentrations may either increase (e.g. cyclosporin, tizanidine, theophylline) or decrease (e.g. lamotrigine).

#### Pharmacodynamic interactions

During clinical trials with patients treated for hepatitis C virus infections (HCV) with the medicinal products containing ombitasvir / paritaprevir / ritonavir and dasabuvir with or without ribavirin, transaminase (ALT) elevations higher than 5 times the upper limit of normal (ULN) occurred significantly more frequently in women using ethinylestradiol-containing medications such as combined hormonal contraceptives (CHCs). Additionally, also in patients treated with glecaprevir / pibrentasvir or sofosbuvir / velpatasvir / voxilaprevir, ALT elevations were observed in women using ethinylestradiol-containing medications such as CHCs (see section 4.3).

Therefore, Gynera-users must switch to an alternative method of contraception (e.g., progestagen-only contraception or non-hormonal methods) prior to starting therapy with these combination drug regimens. Gynera can be restarted 2 weeks following completion of treatment with these combination drug regimens.

#### Other forms of interactions

- Laboratory tests

The use of oral contraceptives may influence the results of certain laboratory tests including biochemical parameters of liver, thyroid, adrenal and renal function, plasma levels of carrier proteins and lipid/lipoprotein fractions, parameters of carbohydrate metabolism and parameters of coagulation and fibrinolysis. Laboratory staff should therefore be informed about oral contraceptive use when laboratory tests are requested.

### **4.6. Fertility, pregnancy and lactation**

Gynera is not indicated during pregnancy. If pregnancy occurs during treatment with Gynera, further intake must be stopped. However, extensive epidemiological studies have revealed neither an increased risk of birth defects in children born to women who used COCs prior to pregnancy, nor a teratogenic effect when COCs were taken inadvertently during early pregnancy.

The increased risk of VTE during the postpartum period should be considered when re-starting Gynera (see section 4.2 and 4.4).

The use of Gynera during lactation may lead to a reduction in the volume of milk produced and to a change in its composition. Minute amounts of the active substances are excreted with the milk. These amounts may affect the child particularly in the first 6 weeks postpartum. Mothers who are breast-feeding may be advised instead to use another method of contraception.

### **4.7. Effects on ability to drive and to use machines**

None known.

#### 4.8. Undesirable Effects

##### Summary of the safety profile

The most commonly reported adverse reactions with Gynera are nausea, abdominal pain, increased weight, headache, depressed mood, altered mood, breast pain, breast tenderness. They occur in  $\geq 1\%$  of users.

Serious adverse reactions are arterial and venous thromboembolism.

System Organ Class	Adverse events reported in clinical trials			Adverse events reported post marketing
	Common ( $\geq 1/100$ )	Uncommon ( $\geq 1/1000$ , $<1/100$ )	Rare ( $< 1/1000$ )	
Eye disorders			contact lens intolerance	
Gastrointestinal disorders	nausea, abdominal pain	vomiting, diarrhea		ulcerative colitis
Immune system disorders			hypersensitivity	exacerbation of symptoms of hereditary and acquired angioedema
Investigations	weight increased		weight decreased	
Metabolism and nutrition disorders		fluid retention		
Nervous system disorders	headache	migraine		exacerbation of chorea
Vascular system			Venous thromboembolism (VTE), Arterial thromboembolism (ATE)	
Hepatobiliary disorders				liver function disturbances
Psychiatric disorders	depressed mood, mood altered	libido decreased	libido increased	
Reproductive system and breast disorders	breast pain, breast tenderness	breast hypertrophy	vaginal discharge, breast discharge	reduced menstrual flow, spotting, breakthrough bleeding and missed withdrawal bleeding, post pill amenorrhoea
Skin and subcutaneous tissue disorders		rash, urticaria	erythema nodosum, erythema multiforme	chloasma



### Description of selected adverse reactions

An increased risk of arterial and venous thrombotic and thrombo-embolic events, including myocardial infarction, stroke, transient ischemic attacks, venous thrombosis and pulmonary embolism has been observed in women using CHCs, which are discussed in more detail in section 4.4.

The following serious adverse events have been reported in women using COCs, which are discussed in section 4.4 'Special warnings and precautions for use':

- Venous thromboembolic disorders
- Arterial thromboembolic disorders
- Strokes (e.g. transient ischemic attack, ischemic stroke, haemorrhagic stroke)
- Hypertension
- Hypertriglyceridemia
- Liver tumours (benign and malignant)

The frequency of diagnosis of breast cancer is very slightly increased among COC users. As breast cancer is rare in women under 40 years of age the excess number is small in relation to the overall risk of breast cancer. Causation with COC use is unknown. For further information, see sections 4.3 'Contraindications' and 4.4 'Special warnings and precautions for use'.

### Conditions reported to deteriorate with pregnancy or previous COC use

Jaundice and/or pruritus related to cholestasis; gallstone formation; systemic lupus erythematosus; herpes gestationis; otosclerosis-related hearing loss; Crohn's disease, sickle cell anaemia; renal dysfunction; hereditary angioedema; porphyria; cervical cancer.

Changes in glucose tolerance or effect on peripheral insulin resistance have been reported in women using COCs (see section 4.4).

### **Reporting of suspected adverse reactions**

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via:

<b>To report any side effect(s):</b>	
<b>Saudi Arabia:</b> The National Pharmacovigilance Centre (NPC). SFDA Call Center: 19999 E-mail: npc.drug@sFDA.gov.sa Website: <a href="https://ade.sfda.gov.sa">https://ade.sfda.gov.sa</a>	<b>Egypt:</b> Egyptian Pharmaceutical Vigilance Centre Hotline: 15301 Email: pv.followup@edaegypt.gov.eg Website: <a href="http://www.edaegypt.gov.eg">www.edaegypt.gov.eg</a>
<b>United Arab Emirates (UAE):</b> Pharmacovigilance & Medical Device section Tel: 800111111 / +971 42301000 Email: pv@mohap.gov.ae Website: <a href="http://www.mohap.gov.ae">www.mohap.gov.ae</a> P.O.Box 1853 Dubai	<b>Oman:</b> Tel: +968 - 2444 1999 Fax: +968 - 24602287 Email: pharma-vigil@moh.gov.om Website: <a href="http://www.moh.gov.om">www.moh.gov.om</a>

<b>To report any side effect(s):</b>
<b>Kuwait:</b> Drug & Food Control, Ministry of Health Tel.: +965-24811532 Fax: +965-24811507 Email : Adr_reporting@moh.gov.kw Website: <a href="http://eservices.moh.gov.kw/SPCMS/DrugCmp.aspx">http://eservices.moh.gov.kw/SPCMS/DrugCmp.aspx</a>
<b>Other Countries:</b> Please contact the relevant competent authority

#### 4.9. Overdose

Overdosage may cause nausea, vomiting and, withdrawal bleeding. Withdrawal bleeding may even occur in girls before their menarche, if they accidentally take the medicinal product.

There are no specific antidotes and treatment should be symptomatic.

### 5. PHARMACOLOGICAL PARTICULARS

#### 5.1. Pharmacodynamic properties

Pharmacotherapeutic group: Sex hormones and modulators of the genital system, progestogens and oestrogens, fixed combinations.

ATC code: G03AA10

This oestrogen-progestogen combination acts by inhibiting ovulation by suppression of the mid-cycle surge of luteinising hormone, the inspissation of cervical mucus so as to constitute a barrier to sperm, and the rendering of the endometrium unreceptive to implantation.

#### 5.2. Pharmacokinetic properties

Gestodene

Orally administered gestodene is rapidly and completely absorbed. Following single ingestion of Gynera, maximum drug serum levels of 4ng/ml are reached at about 1.0 hour. Thereafter, gestodene serum level decrease in two phases. The terminal disposition phase is characterized by a half-life of 12 - 15 hours. For gestodene, an apparent volume of distribution of 0.7 l/kg and a metabolic clearance rate from serum of about 0.8 ml/min/kg were determined. Gestodene is not excreted in unchanged form but as metabolites, which are eliminated with a half-life of about 1 day. Gestodene metabolites are excreted at an urinary to biliary ratio of about 6:4. The biotransformation follows the known pathways of steroid metabolism. No pharmacologically active metabolites are known.

Gestodene is bound to serum albumin and to SHBG (sex hormone binding globulin). Only 1 - 2% of the total serum drug levels are present as free steroid, about 50 - 70% are specifically

bound to SHBG. The relative distribution (free, albumin-bound, SHBG-bound) depends on the SHBG concentrations in the serum. Following induction of the binding protein, the SHBG-bound fraction increases while the unbound and the albumin-bound fractions decrease.

Following daily repeated administration of Gynera, gestodene concentrations in the serum increase by a factor of 2.8. Mean serum levels are fourfold higher at steady-state conditions which are reached during the second half of a treatment cycle. The pharmacokinetics of gestodene is influenced by SHBG serum levels. Under treatment with Gynera, a threefold increase in the serum SHBG levels has been observed for the first treatment cycle. Due to the specific binding of gestodene to SHBG, the increase in SHBG levels is accompanied by an almost parallel increase in gestodene serum levels. After three treatment cycles the extent of SHBG induction per cycle does not change any more. The absolute bioavailability of gestodene was determined to be 99% of the dose administered.

### Ethinylestradiol

Orally administered ethinylestradiol is rapidly and completely absorbed. Following ingestion of Gynera, maximum drug serum levels of 82pg/ml are reached at 1.4 hours. Thereafter, ethinylestradiol serum levels decrease in two phases characterized by half-lives of 1 - 2 hours and about 20 hours. Because of analytical reasons, these parameters can only be calculated following the administration of higher doses. For ethinylestradiol, an apparent volume of distribution of about 5 l/kg and a metabolic clearance rate from serum of about 5ml/min/kg were determined. Ethinylestradiol is highly but non-specifically bound to serum albumin. About 2% of drug levels are present unbound. During absorption and first liver passage, ethinylestradiol is metabolized resulting in a reduced absolute and variable oral bioavailability. Unchanged drug is not excreted. Ethinylestradiol metabolites are excreted at a urinary to biliary ratio of 4:6 with a half-life of about 1 day.

According to the half-life of the terminal disposition phase from serum and the daily ingestion, steady-state serum levels are reached after 3 - 4 days and are higher by 30 - 40% as compared to a single dose.

During established lactation, 0.02% of the daily maternal dose could be transferred to the newborn via milk.

The systemic availability of ethinylestradiol might be influenced in both directions by other drugs. There is, however, no interaction with high doses of vitamin C. Ethinylestradiol induces the hepatic synthesis of SHBG and CBG (corticoid binding globulin) during continuous use. The extent of SHBG induction, however, depends on the chemical structure and the dose of the co-administered progestogen. During treatment with Gynera, SHBG concentrations in the serum increased from 69nmol/l to 198nmol/l in the first and to 210nmol/l in the third cycle. Serum concentrations of CBG were increased from 37µg/ml to 85µg/ml in the first cycle and remained constant thereafter.

### 5.3. Preclinical safety data.

The combination of ethinylestradiol and gestodene, like other contraceptive steroids, is associated with an increased incidence of neoplastic nodules in the rat liver, the relevance of

which to man is unknown. Malignant liver tumours have been reported on rare occasions in long-term users of oral contraceptives.

There are no other preclinical safety data which could be of relevance to the prescriber and which are not already included in other relevant sections of the SPC.

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1. List of excipients**

lactose  
maize starch  
povidone  
magnesium stearate (E 572)  
sodium calcium edetate  
sucrose  
macrogol 6000  
calcium carbonate (E 170)  
talc  
montan glycol wax

### **6.2. Incompatibilities**

None known.

### **6.3. Shelf life.**

2 years.

### **6.4. Special precautions for storage.**

Store in the original package in order to protect from light.  
Do not store above 30°C.

### **6.5. Nature and contents of container.**

Deep drawn strips made of polyvinyl chloride film with counter-sealing foil made of aluminium with heat sealable coating.

#### Presentation:

Carton containing memo-packs of either 1 x 21 tablets or 3 x 21 tablets.

### **6.6. Special precautions for disposal**

No special requirements.

**7. MARKETING AUTHORISATION HOLDER**

Bayer AG  
Kaiser-Wilhelm-Allee 1  
51368 Leverkusen, Germany

**8. MARKETING AUTHORISATION NUMBER**

PL 00010/0529

**9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

Date of first authorisation: 1 May 2008

**10. DATE OF REVISION OF TEXT**

31/10/ 2023