

## **Package leaflet: Information for the user**

### **GONAL-f 900 IU/1.44 mL (solution for injection in pre-filled pen follitropin alfa**

**Read all of this leaflet carefully before you start using this medicine because it contains important information for you.**

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

#### **What is in this leaflet**

1. What GONAL-f is and what it is used for
  2. What you need to know before you use GONAL-f
  3. How to use GONAL-f
  4. Possible side effects
  5. How to store GONAL-f
  6. Contents of the pack and other information
- Instructions for use

#### **1. What GONAL-f is and what it is used for**

##### **What GONAL-f is**

GONAL-f contains a medicine called “follitropin alfa”. Follitropin alfa is a type of “follicle stimulating hormone” (FSH) which belongs to the family of hormones called “gonadotropins”. Gonadotropins are involved in reproduction and fertility.

##### **What GONAL-f is used for**

**In adult women,** GONAL-f is used:

- to help release an egg from the ovary (ovulation) in women that cannot ovulate and that did not respond to treatment with a medicine called “clomiphene citrate”.
- together with another medicine called “lutropin alfa” (“luteinising hormone” or LH) to help release egg from the ovary (ovulation) in women whose body is producing very little gonadotropins (FSH and LH).
- to help develop several follicles (each containing an egg) in women undergoing assisted reproductive technology procedures (procedures that may help you to become pregnant) such as “*in vitro* fertilisation”, “gamete intra-fallopian transfer” or “zygote intra-fallopian transfer”.

**In adult men,** GONAL-f is used:

- together with another medicine called “human chorionic gonadotropin” (hCG) to help produce sperm in men that are infertile due to a low level of certain hormones.

#### **2. What you need to know before you use GONAL-f**

You and your partner’s fertility should be evaluated before the treatment is started by a doctor experienced in treating fertility disorders.

## **Do not use GONAL-f**

- if you are allergic to follicle stimulating hormone or any of the other ingredients of this medicine listed in section 6.
- if you have a tumour in your hypothalamus or pituitary gland (both are parts of the brain).
- if you are **a woman**:
  - with large ovaries or sacs of fluids within the ovaries (ovarian cysts) of unknown origin.
  - with unexplained vaginal bleeding.
  - with cancer in your ovaries, womb or breasts.
  - with a condition that usually makes normal pregnancy impossible, such as ovarian failure (early menopause), or malformed reproductive organs.
- if you are **a man**:
  - with damaged testicles that cannot be healed.

Do not use GONAL-f if any of the above applies to you. If you are not sure, talk to your doctor before using this medicine.

## **Warnings and precautions**

Talk to your doctor, pharmacist or nurse before using Gonal-f.

### Porphyria

Tell your doctor before you start treatment, if you or any member of your family have porphyria (an inability to break down porphyrins that may be passed on from parents to children).

Tell your doctor straight away if:

- your skin becomes fragile and easily blistered, especially skin that has been frequently in the sun, and/or
- you have stomach, arm or leg pain.

In case of the above events your doctor may recommend that you stop treatment.

### Ovarian hyper-stimulation syndrome (OHSS)

If you are a woman, this medicine increases your risk of developing OHSS. This is when your follicles develop too much and become large cysts. If you get lower abdominal pain, gain any weight rapidly, feel sick or are vomiting or if you have difficulty in breathing, talk to your doctor straight away who might ask you to stop using this medicine (see section 4).

In case you are not ovulating, and if the recommended dose and schedule of administration are adhered to, the occurrence of OHSS is less likely. GONAL-f treatment seldom causes severe OHSS unless the medicine that is used for final follicular maturation (containing human chorionic gonadotropin, hCG) is administered. If you are developing OHSS your doctor may not give you any hCG in this treatment cycle and you may be told not to have sex or to use a barrier contraceptive method for at least four days.

### Multiple pregnancy

When using GONAL-f, you have a higher risk of being pregnant with more than one child at the same time (“multiple pregnancy”, mostly twins), than if you conceived naturally. Multiple pregnancy may lead to medical complications for you and your babies. You can reduce the risk of multiple pregnancy by using the right dose of GONAL-f at the right times. When undergoing assisted reproductive technology, the risk of having a multiple pregnancy is related to your age, the quality and the number of fertilised eggs or embryos placed inside you.

### Miscarriage

When undergoing assisted reproductive technology or stimulation of your ovaries to produce eggs, you are more likely to have a miscarriage than the average woman.

### Blood clotting problems (thromboembolic events)

If you had in the past or recently blood clots in the leg or in the lung, or a heart attack or stroke, or if those happened in your family, then you might have a higher risk that these problems occur or become worse with GONAL-f treatment.

### Men with too much FSH in their blood

If you are a man, having too much FSH in your blood can be a sign of damaged testicles. GONAL-f usually does not work if you have this problem.

If your doctor decides to try GONAL-f treatment, to monitor the treatment, they may ask you to provide semen for analysis 4 to 6 months after starting treatment.

### **Children and adolescents**

GONAL-f is not for use in children and adolescents below 18 years old.

### **Other medicines and GONAL-f**

Tell your doctor if you are taking, have recently taken or might take any other medicines.

- If you use GONAL-f with other medicines which help ovulation (such as hCG or clomiphene citrate), this may increase the response of your follicles.
- If you use GONAL-f at the same time as a “gonadotropin-releasing hormone” (GnRH) agonist or antagonist (these medicines reduce your sex hormone levels and stop you ovulating) you may need a higher dose of GONAL-f to produce follicles.

### **Pregnancy and breast-feeding**

Do not use GONAL-f if you are pregnant or breast-feeding.

### **Driving and using machines**

It is not expected that this medicine will affect your ability to drive and use machines.

### **GONAL-f contains sodium**

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

## **3. How to use GONAL-f**

Always use this medicine exactly as your doctor has told you. Check with your doctor or pharmacist if you are not sure.

### **Using this medicine**

- GONAL-f is intended to be given by injection just under the skin (subcutaneously). The pre-filled pen can be used for several injections.
- The first injection of GONAL-f should be given under supervision of your doctor.

- Your doctor or nurse will show you how to use the GONAL-f pre-filled pen to inject the medicine.
- If you administer GONAL-f to yourself, please carefully read and follow the “Instructions for use”.

### **How much to use**

Your doctor will decide how much medicine you will take and how often. The doses described below are stated in International Units (IU).

### **Women**

#### **If you are not ovulating and have irregular or no periods.**

- GONAL-f is usually given every day.
- If you have irregular periods, start using GONAL-f within the first 7 days of your menstrual cycle. If you do not have periods you can start using the medicine on any convenient day.
- The starting dose of GONAL-f is usually individualised and may be adjusted in a stepwise manner.
- The daily dose of GONAL-f should not exceed 225 IU.
- When you get the desired response, you will be given a single injection of 250 micrograms of “recombinant hCG” (r-hCG, an hCG made in a laboratory by a special DNA technique), or 5 000 to 10 000 IU of hCG, 24 to 48 hours after your last GONAL-f injection. The best time to have sex is on the day of the hCG injection and the day after.

If your doctor cannot see a desired response, the continuation of that treatment cycle with GONAL-f should be evaluated and managed accordingly to the standard clinical practice.

If your body responds too strongly, your treatment will be stopped and you will not be given any hCG (see section 2, “Ovarian hyper-stimulation syndrome (OHSS)”). For the following cycle, your doctor will give you a lower dose of GONAL-f than before.

#### **If you have been diagnosed with very low levels of FSH and LH hormones**

- The usual starting dose of GONAL-f is 75 to 150 IU together with 75 IU of lutropin alfa.
- You will use these two medicines each day for up to five weeks.
- Your dose of GONAL-f may be increased every 7 or every 14 days by 37.5 to 75 IU, until you get the desired response.
- When you get the desired response, you will be given a single injection of 250 micrograms of “recombinant hCG” (r-hCG, an hCG made in a laboratory by a special DNA technique), or 5 000 to 10 000 IU of hCG, 24 to 48 hours after your last injections of GONAL-f and lutropin alfa. The best time to have sex is on the day of the hCG injection and the day after. Alternatively, intrauterine insemination or another medically assisted reproduction procedure may be performed based on your doctor’s judgment.

If your doctor cannot see a response after 5 weeks, that treatment cycle with GONAL-f should be stopped. For the following cycle, your doctor will give you a higher starting dose of GONAL-f than before.

If your body responds too strongly, your treatment with GONAL-f will be stopped and you will not be given any hCG (see section 2, “Ovarian hyper-stimulation syndrome (OHSS)”). For the following cycle, your doctor will give you a lower dose of GONAL-f than before.

### **If you need to develop several eggs for collection prior to any assisted reproductive technology**

- The starting dose of GONAL-f is usually individualised and may be adjusted in a stepwise manner to not higher than 450 IU daily.
- Treatment is continued until your eggs have developed to a desired point. Your doctor will use blood tests and/or an ultrasound machine to check when this is.
- When your eggs are ready, you will be given a single injection of 250 micrograms “recombinant hCG” (r-hCG, an hCG made in a laboratory by a special recombinant DNA technique), or 5 000 IU to 10 000 IU of hCG, 24 to 48 hours after the last GONAL-f injection. This gets your eggs ready for collection.

### **Men**

- The usual dose of GONAL-f is 150 IU together with hCG.
- You will use these two medicines three times a week for at least 4 months.
- If you have not responded to treatment after 4 months, your doctor may suggest that you continue using these two medicines for at least 18 months.

### **If you use more GONAL-f than you should**

The effects of taking too much GONAL-f are unknown. Nevertheless, one could expect ovarian hyper-stimulation syndrome (OHSS) to occur, which is described in section 4. However, the OHSS will only occur if hCG is also administered (see section 2, “Ovarian hyper-stimulation syndrome (OHSS)”).

### **If you forget to use GONAL-f**

If you forget to use GONAL-f, do not take a double dose to make up for a forgotten dose. Please talk to your doctor as soon as you notice that you forgot a dose.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

## **4. Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

### **Serious side effects in women**

- Lower abdominal pain together with nausea or vomiting may be the symptoms of ovarian hyper-stimulation syndrome (OHSS). This may indicate that the ovaries over-reacted to the treatment and that large ovarian cysts developed (see also in section 2. under “Ovarian hyper-stimulation syndrome (OHSS)”).
- The OHSS may become severe with clearly enlarged ovaries, decreased urine production, weight gain, difficulty in breathing and/or possible fluid accumulation in your stomach or chest. This side effect is uncommon (may affect up to 1 in 100 people).
- Complications of OHSS such as twisting of ovaries or blood clotting may occur rarely (may affect up to 1 in 1 000 people).
- Serious blood clotting complications (thromboembolic events) sometimes independent of OHSS may be found very rarely (may affect up to 1 in 10 000 people). This could cause chest pain, breathlessness, stroke or heart attack (see also in section 2. under “Blood clotting problems”).

### **Serious side effects in men and women**

- Allergic reactions such as rash, red skin, hives, swelling of your face with difficulty breathing can sometimes be serious. This side effect is very rare (may affect up to 1 in 10 000 people).

**If you notice any of the above-listed side effects, you should immediately contact your doctor who might ask you to stop using GONAL-f.**

### **Other side effects in women**

Very common (may affect more than 1 in 10 people):

- Sacs of fluid within the ovaries (ovarian cysts)
- Headache
- Local reactions at the injection site, such as pain, redness, bruising, swelling and/or irritation

Common (may affect up to 1 in 10 people):

- Abdominal pain
- Feeling sick, vomiting, diarrhoea, abdominal cramps and bloating

Very rare (may affect up to 1 in 10 000 people):

- Allergic reactions such as rash, red skin, hives, swelling of your face with difficulty breathing may occur. These reactions can sometimes be serious.
- Your asthma may get worse.

### **Other side effects in men**

Very common (may affect more than 1 in 10 people):

- Local reactions at the injection site, such as pain, redness, bruising, swelling and/or irritation

Common (may affect up to 1 in 10 people):

- Swelling of the veins above and behind the testicles (varicocele)
- Breast development, acne or weight gain

Very rare (may affect up to 1 in 10 000 people):

- Allergic reactions such as rash, red skin, hives, swelling of your face with difficulty in breathing may occur. These reactions can sometimes be serious.
- Your asthma may get worse.

### **Reporting of side effects**

If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via

#### **United Kingdom**

Yellow Card Scheme

Website: [www.mhra.gov.uk/yellowcard](http://www.mhra.gov.uk/yellowcard) or search for MHRA Yellow Card in the Google Play or Apple App Store.

By reporting side effects you can help provide more information on the safety of this medicine.

## **5. How to store GONAL-f**

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the cartridge label or carton after EXP. The expiry date refers to the last day of that month.

Store in a refrigerator (2°C - 8°C). Do not freeze.

Before opening and within its shelf life, the product may be stored outside of the refrigerator at temperatures up to a maximum of 25°C for a single period of up to 3 months and must be discarded if it has not been used within these 3 months.

Keep the cap on the pen, in order to protect from light.

Do not use GONAL-f if you notice any visible signs of deterioration, if the liquid contains particles or is not clear.

Once opened, the pen should be stored between 2°C and 25°C for a maximum of 28 days. Do not use any medicine left in your pre-filled pen after 28 days.

At the end of the treatment any unused solution must be discarded.

Do not throw away any medicines via wastewater. Ask your pharmacist how to throw away medicines you no longer use. These measures will help to protect the environment.

## **6. Contents of the pack and other information**

### **What GONAL-f contains**

- The active substance is follitropin alfa.
- Each pre-filled pen with multidose cartridge contains 900 IU (66 micrograms) of follitropin alfa in 1.44 mL solution.
- The other ingredients are poloxamer 188, sucrose, methionine, sodium dihydrogen phosphate monohydrate, disodium phosphate dihydrate, m-cresol, as well as concentrated phosphoric acid and sodium hydroxide for pH adjustment and water for injections.

### **What GONAL-f looks like and contents of the pack**

- GONAL-f is presented as a clear, colourless liquid for injection in a pre-filled pen.
- It is supplied in packs with 1 pre-filled pen and 16 disposable needles.

### **Marketing Authorisation Holder**

Merck Serono Ltd, 5 New Square, Bedfont Lakes Business Park, Feltham, Middlesex, TW14 8HA, UK

### **Manufacturer**

Merck Serono S.p.A., Via delle Magnolie 15, 70026 Modugno (Bari), Italy

**This leaflet was last revised in 02/2025.**