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#### HIGHLIGHTS OF PRESCRIBING INFORMATION

## These highlights do not include all the information needed to use GONAL-F<sup>®</sup> safely and effectively. See full prescribing information for Gonal-F<sup>®</sup>

## GONAL-F<sup>®</sup> (follitropin alfa) for injection, for subcutaneous use Initial U.S. Approval: 1997

------ INDICATIONS AND USAGE

GONAL-F is a gonadotropin indicated for:

- Women:
  - Induction of ovulation and pregnancy in oligo-anovulatory infertile women for whom the cause of infertility is functional and not due to primary ovarian failure. (1.1)
  - Development of multiple follicles in ovulatory infertile women as part of Assisted Reproductive Technology (ART) cycles. (1.2)
- Men:
  - Induction of spermatogenesis in infertile men with primary and secondary hypogonadotropic hypogonadism for whom the cause of infertility is not due to primary testicular failure. (1.3)

#### ----- DOSAGE AND ADMINISTRATION

#### Induction of Ovulation (2.3)

- Initial starting dose of the first cycle 75 International Units of GONAL-F per day for 14 days, administered subcutaneously
- Individualize doses after 14 days
- Do not administer doses greater than 300 International Units per day

Development of Multiple Follicles in Assisted Reproductive Technology (ART) (2.3)

- Initial starting dose of the first cycle 150 International Units per day, administered subcutaneously
- Dosage adjustments after 3 to 5 days and by 75 to 150 International Units at each adjustment
- Do not administer doses greater than 450 International Units per day

Males with Hypogonadotropic Hypogonadism and Azoospermia (2.4)

- Use in conjunction with hCG.
- Prior to concomitant therapy with GONAL-F and hCG, pretreat with 1,000 to 2,250 USP units of hCG alone two to three times per week to achieve normal serum testosterone levels, which may take 3 to 6 months.
- After normalization of serum testosterone, administer150 International Units of GONAL-F subcutaneously three times a week and 1,000 USP units of hCG (or the dose required to maintain serum testosterone levels within the normal range) three times a week.

#### ----- DOSAGE FORMS AND STRENGTHS

- For Injection: 450 International Units in a multiple-dose vial.(3)
- For Injection: 1050 International Units in a multiple-dose vial. (3)

#### ----- CONTRAINDICATIONS

#### GONAL-F is contraindicated in women and men who exhibit (4):

- · Prior hypersensitivity to recombinant FSH products or one of their excipients
- High levels of FSH indicating primary gonadal failure
- Uncontrolled non-gonadal endocrinopathies
- Sex hormone dependent tumors of the reproductive tract and accessory organs
- Tumors of pituitary gland or hypothalamus

GONAL-F is also contraindicated in women who exhibit (4):

- Abnormal uterine bleeding of undetermined origin
- Ovarian cyst or enlargement of undetermined origin

------ WARNINGS AND PRECAUTIONS ------

- Hypersensitivity Reactions and Anaphylaxis: If occurs, initiate appropriate therapy including supportive measures, and discontinue Gonal-F (5.1)
- Ovarian Hyperstimulation Syndrome: If serious, stop gonadotropins, including hCG, and determine if the woman needs to be hospitalized. Treatment is primarily symptomatic and consists of bed rest, fluid and electrolyte management, and analgesics (5.2)
- Pulmonary and Vascular Complications: In women with recognized risk factors, the benefits of induction of ovulation and ART need to be weighed against the risks. During or after use of GONAL-F, monitor for venous or arterial thromboembolic events (5.3)
- Ovarian Torsion: Early diagnosis and immediate detorsion limit damage to the ovary due to reduced blood supply (5.4)
- Abnormal Ovarian Enlargement: If the ovaries are abnormally enlarged on the last day of GONAL-F therapy, inform women not to administer hCG and to avoid intercourse (5.5)
- Multi-fetal Gestation and Births: The rate of multiple births is dependent on the number of embryos transferred. Advise the woman and her partner of the potential risk of multi-fetal gestation and birth before beginning therapy with GONAL-F (5.6)
- Embryofetal Toxicity: Inform women that the incidence of congenital malformations (birth defects) after some Assisted Reproductive Technology [(ART) specifically in vitro fertilization (IVF) or intracytoplasmic sperm injection (ICSI)] may be slightly higher than after spontaneous conception. There is no evidence that the use of gonadotropins during IVF or ICSI is associated with an increased risk of congenital malformations (5.7)
- Ectopic Pregnancy: Advise women who become pregnant following ART and have: abdominal/pelvic pain (particularly on one side); shoulder, neck or rectal pain; and nausea and vomiting to seek immediate medical attention. Confirm the presence of an intrauterine pregnancy early by β-hCG testing and transvaginal ultrasound (5.8)
- Spontaneous Abortion: The risk of spontaneous abortion (miscarriage) is increased with gonadotropin products, however, causality has not been established (5.9)
- Ovarian Neoplasm: Both benign and malignant ovarian neoplasms are reported in women who have had multiple drug therapy for controlled ovarian stimulation, however, causality has not been established (5.10)
- The most common adverse reactions (≥5%) in ovulation induction include: ovarian cyst,headache,
  - abdominal pain, OHSS, nausea, flatulence, pain and intermenstrual bleeding. (6.1)
- The most common adverse reactions (≥5%) in development of multiple follliclesg in ART include: headache, nausea, pelvic pain and abdominal pain. (6.1)
- The most common adverse reactions (>5%) in hypogonadotropic hypogonadal men participating in induction of spermatogenesis include: acne, injection site pain, fatigue, gynecomastia and seborrhea (6.1)

## To report SUSPECTED ADVERSE REACTIONS, contact EMD Serono at 1-800-283-8088, Ext 5563 or FDA at 1-800-FDA-1088 or *www.fda.gov/medwatch*.

• Lactation: Advise not to breastfeed (8.2)

#### See 17 for PATIENT COUNSELING INFORMATION.

Revised: 11/2023

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#### **1 INDICATIONS AND USAGE**

1.1 Induction of ovulation and pregnancy in oligo-anovulatory infertile women for whom the cause of infertility is functional and not due to primary ovarian failure.1.2 Development of multiple follicles in ovulatory infertile women as part of an assisted reproductive technology (ART) cycle.

1.3 Induction of spermatogenesis in infertile men with primary and secondary

hypogonadotropic hypogonadism for whom the cause of infertility is not due to primary testicular failure.

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#### **17 PATIENT COUNSELING INFORMATION**

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#### FULL PRESCRIBING INFORMATION

#### **1 INDICATIONS AND USAGE**

Gonal-F is indicated for:

1.1 Induction of ovulation and pregnancy in oligo-anovulatory infertile women for whom the cause of infertility is functional and not due to primary ovarian failure.

**1.2 Development of multiple follicles in ovulatory infertile women as part of an assisted reproductive technology (ART) cycle.** 

**1.3 Induction of spermatogenesis in infertile men with primary and secondary hypogonadotropic hypogonadism for whom the cause of infertility is not due to primary testicular failure.** 

#### **2 DOSAGE AND ADMINISTRATION**

#### 2.1 Important Dosage and Administration Information

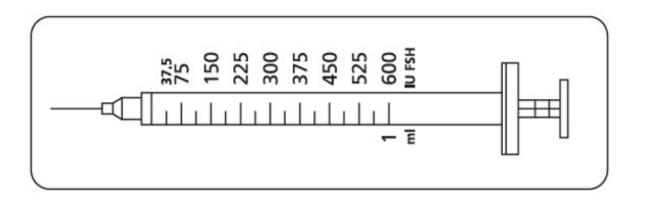
Only physicians who are experienced in infertility treatment, should treat women with GONAL-F. GONAL-F is a gonadotropins product capable of causing in women, Ovarian Hyperstimulation Syndrome (OHSS) with or without pulmonary or vascular complications *[see Warnings and Precautions (5.2, 5.3)]* and multiple births *[see Warnings and Precautions (5.6)]*. Gonadotropin therapy requires the availability of appropriate monitoring facilities *[see Warnings and Precautions (5.11)]*. Use the lowest effective dose of GONAL-F.

Give careful attention to the diagnosis of infertility and the selection of candidates for GONAL-F therapy [see Dosage and Administration (2.3, 2.4)].

#### 2.2 Preparation of GONAL-F and Selection of Injection Site

- Store lyophilized multiple-dose vials refrigerated or at room temperature (2°-25°C /36°-77°F) and protected from light.
- Prior to administration, parenteral drug products should be inspected visually for particulate matter and discoloration, whenever solution and container permit.
- Instruct women and men to use the accompanying syringes, calibrated in International Units FSH for administration. The 27-gauge injection syringe (see figure

below) has unit dose markings from 37.5 International Units to 600 International Units FSH for use with GONAL-F Multi-Dose. Instruct women and men to take a specific dose of GONAL-F Multi-Dose. Show women and men how to locate the syringe marking that corresponds to the prescribed dose.



- Each GONAL-F Multi-Dose Vial delivers 450 International Units or 1050 International Units of follitropin alfa, respectively
  - Multi-Dose 450 International Units Vial:
    - Dissolve the contents of one Multi-Dose vial (450 International Units) with 1 mL Bacteriostatic Water for Injection (0.9% benzyl alcohol), USP. Resulting concentration will be 600 International Units/mL. Following reconstitution as directed, product will deliver the equivalent of six 75 International Units doses.
  - Multi-Dose 1050 International Units Vial:
    - Dissolve the contents of one Multi-Dose vial (1050 International Units) with 2 mL Bacteriostatic Water for Injection (0.9% benzyl alcohol), USP. Resulting concentration will be 600 International Units/mL. Following reconstitution as directed, product will deliver the equivalent of fourteen 75 International Units doses.
- Discard unused reconstituted solution after 28 days.
- Administer GONAL-F subcutaneously in the abdomen, upper arm, or upper leg as described in Patient Information and Instructions for Use.

#### 2.3 Dosing for Ovulation Induction

Prior to initiation of treatment with GONAL-F:

- Perform a complete gynecologic and endocrinologic evaluation
- Exclude primary ovarian failure
- Exclude the possibility of pregnancy
- Demonstrate tubal patency
- Evaluate the fertility status of the male partner

The dosing scheme is stepwise and is individualized for each woman [see Clinical Studies (14.1)].

- Administer a starting dose of 75 International Units of GONAL-F subcutaneously daily for 14 days in the first cycle of use.
- In subsequent cycles of treatment, determine the starting dose (and dosage adjustments) of GONAL-F based on the woman's history of the ovarian response to GONAL-F.

- If indicated by the ovarian response after the initial 14 days, make an incremental adjustment in dose of up to 37.5 International Units.
- If indicated by the ovarian response, make additional incremental adjustments in the dose, up to 37.5 International Units, every 7 days.
- Continue treatment until follicular growth and/or serum estradiol levels indicate an adequate ovarian response.
- Consider the following when planning the woman's individualized dose:
  - Use the lowest dose of Gonal-F consistent with the expectation of good results.
  - Use appropriate GONAL-F dose adjustment(s) to prevent multiple follicular growth and cycle cancellation.
  - The maximum, individualized, daily dose of GONAL-F is 300 International Units per day.
  - In general, do not exceed 35 days of treatment, unless an estradiol rise indicates imminent follicular development.
- When pre-ovulatory conditions are reached, administer human chorionic gonadotropin (hCG) to induce final oocyte maturation and ovulation. Human chorionic gonadotropin, hCG, (5,000 USP units) should be given 1 day after the last dose of GONAL-F.
- Encourage the woman and her partner to have intercourse daily, beginning on the day prior to the administration of hCG and until ovulation becomes apparent.
- Withhold hCG in cases where the ovarian monitoring suggests an increased risk of ovarian hyperstimulation syndrome (OHSS) on the last day of GONAL-F therapy (for example estradiol greater than 2,000 pg per mL) [see Warnings and Precautions (5.2, 5.3, 5.5, 5.11)].
  - Discourage intercourse when the risk for OHSS is increased [see Warnings and *Precautions (5.2, 5.5)*].
- Schedule a follow-up visit in the luteal phase.
- Individualize the initial dose administered in subsequent cycles based on the woman's response in the preceding cycle.
- As in the initial cycle, do not administer doses larger than 300 International Units of FSH per day. Administer 5,000 USP units of hCG 1 day after the last dose of GONAL-F to complete follicular development and induce ovulation.
- Follow the above recommendations to minimize the chance of development of OHSS.

# 2.4 Dosing for Multiple Follicle Development as part of an Assisted Reproductive Technology (ART) Cycle

Prior to initiation of treatment with GONAL-F:

- Perform a complete gynecologic and endocrinologic evaluation, and diagnose the cause of infertility
- Exclude the possibility of pregnancy
- Evaluate the fertility status of the male partner

The dosing scheme follows a stepwise approach and is individualized for each woman.

- Beginning on cycle day 2 or 3, administer subcutaneously a starting dose of 150 International Units of GONAL-F daily until sufficient follicular development, as determined by ultrasound in combination with measurement of serum estradiol levels, is attained. In most cases, therapy should not exceed ten days.
- In women whose endogenous gonadotropin levels are suppressed, initiate GONAL-F administration at a dose of 225 International Units per day.

- Adjust the dose after 5 days based on the woman's ovarian response, as determined by ultrasound evaluation of follicular growth and serum estradiol levels.
- Do not make additional dosage adjustments more frequently than every 3-5 days or by more than 75-150 International Units at each adjustment.
- Continue treatment until adequate follicular development is evident, and then administer hCG (5,000 to 10,000 USP units) to induce final follicular maturation in preparation for oocyte retrieval.
- Withhold hCG administration in cases where the ovarian monitoring suggests an increased risk of OHSS on the last day of GONAL-F therapy [see Warnings and Precautions (5.2, 5.3, 5.4, 5.11)].
- Do not use doses greater than 450 International Units per day.

# 2.5 Dosing for Induction of Spermatogenesis in Males with Azoospermia and Primary or Secondary Hypogonadotropic Hypogonadism:

Prior to initiation of treatment with GONAL-F:

- Confirm azoospermia
- Perform a thorough medical and endocrinologic evaluation to exclude other treatable etiologies of azoospermia
- Confirm hypogonadotropic hypogonadism
- Exclude primary testicular failure
- Normalize serum testosterone levels

The dosing scheme follows a stepwise approach and is individualized for each man.

- GONAL-F must be given in conjunction with hCG.
- Prior to concomitant therapy with GONAL-F and hCG, pretreatment with hCG alone (1,000 to 2,250 USP units two to three times per week) is required to normalize serum testosterone levels.
- Treatment with hCG alone should continue until serum testosterone levels reach the normal range, which may take 3 to 6 months. The dose of hCG may also need to be increased during this time to achieve normal serum testosterone levels.
- After serum testosterone levels have normalized, administer GONAL-F 150 International Units subcutaneously three times a week and hCG 1,000 USP units (or the dose required to maintain serum testosterone levels within the normal range) three times a week. The lowest dose of GONAI-F which induces spermatogenesis should be utilized.
- If azoospermia persists, increase the dose of GONAL-F up to a maximum dose of 300 International Units three times per week. Administer GONAL-F for up to 18 months to achieve adequate spermatogenesis.

### 2.6 Missed Dose

Do not double the next dose if a woman or a man misses or forgets to take a dose of GONAL-F.

### **3 DOSAGE FORMS AND STRENGTHS**

- For Injection: 450 International Units of white lyophilized powder in a multiple-dose vial
- For Injection: 1050 International Units of white lyophilized powder in a multiple-dose vial

### **4 CONTRAINDICATIONS**

GONAL-F is contraindicated in women and men who exhibit:

- Prior hypersensitivity to recombinant FSH products or one of their excipients. Reactions have included anaphylaxis [see Warning and Precautions (5.1)]
- High levels of FSH indicating primary gonadal failure
- The presence of uncontrolled non-gonadal endocrinopathies (for example, thyroid, adrenal, or pituitary disorders)
- Sex hormone dependent tumors of the reproductive tract and accessory organs
- Tumors of pituitary gland or hypothalamus

GONAL-F is also contraindicated in women who exhibit:

- Abnormal uterine bleeding of undetermined origin
- Ovarian cyst or enlargement of undetermined origin

#### **5 WARNINGS AND PRECAUTIONS**

#### 5.1 Hypersensitivity Reactions and Anaphylaxis

In the postmarketing experience, serious systemic hypersensitivity reactions, including anaphylaxis, have been reported with use of GONAL-F and GONAL-F RFF. Symptoms have included dyspnea, facial edema, pruritis, and urticaria. If an anaphylactic or other serious allergic reaction occurs, initiate appropriate therapy including supportive measures if cardiovascular instability and/or respiratory compromise occur, and discontinue further use.

#### 5.2 Ovarian Hyperstimulation Syndrome (OHSS)

Ovarian Hyperstimulation Syndrome (OHSS) is a medical entity distinct from uncomplicated ovarian enlargement and may progress rapidly to become a serious medical event. OHSS is characterized by a dramatic increase in vascular permeability, which can result in a rapid accumulation of fluid in the peritoneal cavity, thorax, and potentially, the pericardium. The early warning signs of development of OHSS are severe pelvic pain, nausea, vomiting, and weight gain. Abdominal pain, abdominal distension, gastrointestinal symptoms including nausea, vomiting and diarrhea, severe ovarian enlargement [see Warnings and Precautions (5.6)], weight gain, dyspnea, and oliguria have been reported with OHSS. Clinical evaluation may reveal hypovolemia, hemoconcentration, electrolyte imbalances, ascites, hemoperitoneum, pleural effusions, hydrothorax, acute pulmonary distress, and thromboembolic reactions [see Warnings and Precautions (5.4)]. Transient liver function test abnormalities suggestive of hepatic dysfunction with or without morphologic changes on liver biopsy, have been reported in association with OHSS.

OHSS occurs after gonadotropin treatment has been discontinued and it can develop rapidly, reaching its maximum about seven to ten days following treatment. Usually, OHSS resolves spontaneously with the onset of menses. If there is evidence that OHSS may be developing prior to hCG administration [see Dosage and Administration (2.2, 2.3)], withhold hCG. Cases of OHSS are more common, more severe, and more protracted if pregnancy occurs; therefore, assess women for the development of OHSS for at least two weeks after hCG administration. If serious OHSS occurs, stop gonadotropins, including GONAL-F and hCG, and consider whether the woman needs to be hospitalized. Treatment is primarily symptomatic and overall consists of bed rest, fluid and electrolyte management, and analgesics (if needed). Because the use of diuretics can accentuate the diminished intravascular volume, avoid diuretics except in the late phase of resolution as described below. The management of OHSS is divided into three phases as follows:

• Acute Phase:

Management is directed at preventing hemoconcentration due to loss of intravascular volume to the third space and minimizing the risk of thromboembolic phenomena and kidney damage. Thoroughly assess daily or more often, based on the clinical need, fluid intake and output, weight, hematocrit, serum and urinary electrolytes, urine specific gravity, BUN and creatinine, total proteins with albumin: globulin ratio, coagulation studies, electrocardiogram to monitor for hyperkalemia, and abdominal girth. Treatment, consisting of limited intravenous fluids, electrolytes, human serum albumin, is intended to normalize electrolytes while maintaining an acceptable but somewhat reduced intravascular volume. Full correction of the intravascular volume deficit may lead to an unacceptable increase in the amount of third space fluid accumulation.

• Chronic Phase:

After the acute phase is successfully managed as above, excessive fluid accumulation in the third space should be limited by instituting severe potassium, sodium, and fluid restriction.

• Resolution Phase:

As third space fluid returns to the intravascular compartment, a fall in hematocrit and increasing urinary output are observed in the absence of any increase in intake. Peripheral and/or pulmonary edema may result if the kidneys are unable to excrete third space fluid as rapidly as it is mobilized. Diuretics may be indicated during the resolution phase, if necessary, to combat pulmonary edema.

Do not remove ascitic, pleural, and pericardial fluid, unless there is the necessity to relieve symptoms such as pulmonary distress or cardiac tamponade.

OHSS increases the risk of injury to the ovary. Avoid pelvic examination or intercourse, as these may cause rupture of an ovarian cyst, which may result in hemoperitoneum.

If bleeding occurs and requires surgical intervention, control the bleeding and retain as much ovarian tissue as possible. A physician experienced in the management of this syndrome, or who is experienced in the management of fluid and electrolyte imbalances should be consulted.

#### 5.3 Pulmonary and Vascular Complications

Serious pulmonary conditions (for example, atelectasis, acute respiratory distress syndrome and exacerbation of asthma) have been reported in women treated with gonadotropins, including GONAL-F. In addition, thromboembolic events both in association with, and separate from OHSS have been reported in women treated with gonadotropins, including GONAL-F. Intravascular thrombosis and embolism, which may originate in venous or arterial vessels, can result in reduced blood flow to critical organs or the extremities. Women with generally recognized risk factors for thrombosis, such as personal or family history, severe obesity, or thrombophilia, may have an increased risk of venous or arterial thromboembolic events, during or following treatment with gonadotropins. Sequelae of such reactions have included venous thrombophlebitis, pulmonary embolism, pulmonary infarction, cerebral vascular occlusion (stroke), and arterial occlusion resulting in loss of limb and rarely in myocardial infarctions. In rare cases, pulmonary complications and/or thromboembolic reactions have resulted in death. In women with recognized risk factors, the benefits of ovulation induction and Assisted Reproductive Technology (ART) need to be weighed against the risks. It should be noted that pregnancy also carries an increased risk of thrombosis.

#### 5.4 Ovarian Torsion

Ovarian torsion has been reported after treatment with gonadotropins, including GONAL-F. This may be related to OHSS, pregnancy, previous abdominal surgery, past history of ovarian torsion, previous or current ovarian cyst and polycystic ovaries. Early diagnosis and immediate detorsion limit damage to the ovary due to reduced blood supply.

#### 5.5 Abnormal Ovarian Enlargement

In order to minimize the hazards associated with abnormal ovarian enlargement that may occur with GONAL-F therapy, individualize treatment and use the lowest effective dose [see Dosage and Administration (2.2, 2.3)]. Use of ultrasound monitoring of ovarian response and/or measurement of serum estradiol levels is important to minimize the risk of ovarian stimulation [see Warnings and Precautions (5.12)].

If the ovaries are abnormally enlarged on the last day of GONAL-F therapy, do not administer hCG in order to reduce the chance of developing Ovarian Hyperstimulation Syndrome (OHSS) [see Warnings and Precautions (5.2)]. Prohibit intercourse for women with significant ovarian enlargement after ovulation because of the danger of hemoperitoneum resulting from rupture of ovarian cysts [see Warnings and Precautions (5.2)].

#### 5.6 Multi-fetal Gestation and Birth

Multi-fetal gestation and births have been reported with all gonadotropin therapy, including therapy with GONAL-F.

During clinical trials with GONAL-F, multiple births occurred in 20% of live births in women receiving therapy for ovulation induction and 35.1% of live births in women undergoing ART. Advise the woman and her partner of the potential risk of multi-fetal gestation and birth before beginning therapy with GONAL-F.

### 5.7 Embryofetal toxicity

The incidence of congenital malformations after some ART [specifically in vitro fertilization (IVF) or intracytoplasmic sperm injection (ICSI)] may be slightly higher than after spontaneous conception. This slightly higher incidence is thought to be related to differences in parental characteristics (e.g., maternal age, maternal and paternal genetic background, sperm characteristics) and to the higher incidence of multi-fetal gestations after IVF or ICSI. There are no indications that the use of gonadotropins during IVF or ICSI is associated with an increased risk of congenital malformations.

### 5.8 Ectopic Pregnancy

Since infertile women undergoing ART often have tubal abnormalities, the incidence of ectopic pregnancy may be increased in women who become pregnant as a result of ART. Advise women who become pregnant following ART and have: abdominal/pelvic pain (particularly on one side); shoulder, neck or rectal pain; and nausea and vomiting to seek immediate medical attention. Confirm the presence of an intrauterine pregnancy early by  $\beta$ -hCG testing and transvaginal ultrasound.

#### 5.9 Spontaneous Abortion

The risk of spontaneous abortion (miscarriage) is increased with gonadotropin products, including GONAL-F. However, causality has not been established. The increased risk may be a factor of the underlying infertility.

#### 5.10 Ovarian Neoplasms

There have been infrequent reports of ovarian neoplasms, both benign and malignant, in women who have had multiple drug therapy for controlled ovarian stimulation, however, a causal relationship has not been established.

#### 5.11 Laboratory Tests

In most instances, treatment of women with GONAL-F will result only in follicular recruitment and development. In the absence of an endogenous LH surge, hCG is given to trigger ovulation when monitoring of the woman indicates that sufficient follicular development has occurred. This may be estimated by ultrasound alone or in combination with measurement of serum estradiol levels. The combination of both ultrasound and serum estradiol measurement are useful for monitoring follicular growth and maturation, timing of the ovulatory trigger, detecting ovarian enlargement and minimizing the risk of the OHSS and multiple gestation.

The clinical confirmation of ovulation is obtained by direct or indirect indices of progesterone production as well as sonographic evidence of ovulation.

Direct or indirect indices of progesterone production:

- Urinary or serum luteinizing hormone (LH) rise
- A rise in basal body temperature
- Increase in serum progesterone
- Menstruation following a shift in basal body temperature

Sonographic evidence of ovulation:

- Collapsed follicle
- Fluid in the cul-de-sac
- Features consistent with corpus luteum formation
- Secretory endometrium

#### **6 ADVERSE REACTIONS**

The following serious adverse reactions are discussed elsewhere in the labeling:

- Hypersensitivity Reactions and Anaphylaxis [see Warnings and Precautions (5.1)]
- Ovarian Hyperstimulation Syndrome [see Warnings and Precautions (5.2)]
- Pulmonary and Vascular Complication[see Warnings and Precautions (5.3)]

- Ovarian Torsion [see Warnings and Precautions (5.4)]
- Abnormal Ovarian Enlargement [see Warnings and Precautions (5.5)]
- Multi-fetal Gestation and Birth [see Warnings and Precautions (5.6)]
- Embryofetal Toxicity [see Warnings and Precautions (5.7)]
- Ectopic Pregnancy [see Warnings and Precautions (5.8)]
- Spontaneous Abortion [see Warnings and Precautions (5.9)]
- Ovarian Neoplasms [see Warnings and Precautions (5.10)]

#### 6.1 Clinical Study Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trial of another drug and may not reflect the rates observed in practice.

#### Women:

The safety of GONAL-F was examined in four clinical trials that enrolled 691 women [two trials for ovulation induction (454 women) and two trials for ART (237 women)].

#### Induction of Ovulation

In a randomized, open-labeled, multicenter, active-controlled trial in oligo-anovulatory infertile women, conducted in the U.S., a total of 118 oligo-anovulatory infertile women were randomized to and underwent ovulation induction with GONAL-F versus a comparator urofollitropin. Adverse reactions occurring in at least 5.0% of women receiving GONAL-F are listed in Table 1.

System Organ Class/Adverse Reactions	GONAL-F N=118 <sup>*</sup> (288 treatment cycles <sup>†</sup> ) n <sup>‡</sup> (%)
Body as a Whole - General	
Pain	6 (5.1%)
Central and Peripheral Nervo	us System
Headache	12 (10.2%)
Gastrointestinal System	
Abdominal Pain	9 (7.6%)
Nausea	7 (5.9%)
Flatulence	7 (5.9%)
Reproductive, Female	
Intermenstrual Bleeding	6 (5.1)
Ovarian Hyperstimulation	8 (6.8%)
Ovarian Cyst	17 (14.4%)
* total number of women treated with	GONAL-F

# Table 1: Common Adverse Reactions Reported at a Frequency of $\geq$ 5% in an U.S. Ovulation Induction Trial

\* total number of women treated with GONAL-F

† up to 3 treatment cycles per woman

‡ number of women with the adverse reaction

Development of Multiple Follicles as part of an Assisted Reproductive Technology (ART) Cycle

In a randomized, open-labeled, active-comparator trial conducted in the U.S., a total of 56 normal ovulatory infertile women were randomized and received GONAL-F versus a urofollitropin comparator as part of an ART [in vitro fertilization (IVF) or intracytoplasmic sperm injection cycle (ICSI)] cycle. All women received pituitary down-regulation with gonadotropin releasing hormone (GnRH) agonist before stimulation. Adverse Reactions occurring in at least 5.0% of women are listed in Table 2.

#### Table 2: Common Adverse Reactions Reported at a Frequency of ≥ 5% in an U.S. ART Trial

GONAL-F (N=56*) n <sup>†</sup> (%)
us System
7 (12.5%)
3 (5.4%)
4 (7.1%)
4 (7.1)

\* total number of women treated with GONAL-F

† number of women with the adverse reaction

#### Induction of Spermatogenesis:

The safety of GONAL-F for induction of spermatogenesis in men with primary or secondary hypogonadotropic hypogonadism was examined in 3 open-label, non-randomized, multi-center, multi-national, escalating dose clinical trials (Trials 1, 2 and 3) conducted in in 76 adult men (aged 16 to 48 years) with primary or secondary hypogonadotropic hypogonadism (defined as serum testosterone <100 ng/mL and low or normal FSH and LH) and azoospermia (sperm concentration <0.1×10<sup>6</sup>/mL). Of the 76 men enrolled, 63 received treatment with GONAL-F.

During these trials, there was one serious adverse reaction of gynecomastia requiring surgical excision of breast tissue in a 50 year old man who received 9 months of therapy with Gonal-F. Pathology report showed gynecomastia with no atypia.

There were no discontinuations due to adverse reactions.

Adverse reactions reported in Trials 1, 2 and 3 by  $\geq$ 2 patients during treatment with Gonal-f are shown in Table 3.

Table 3. Common Adverse Reactions in Men
with Azoospermia and Primary or Secondary
Hypogonadotropic Hypogonadism Receiving
Gonal-F in Trials 1, 2 and 3 for Induction for
Spermatogensis

	n (%)
Acne	17 (27)
Injection site pain	7 (11)
Gynecomastia	4 (6)
Seborrhea	3 (5)
Fatigue	6 (10)
Libido decreased	2 (3)

#### 6.2 Postmarketing Experience

In addition to adverse events reported from clinical trials, the following adverse reactions have been reported during postmarketing use of GONAL-F. Because these reactions were reported voluntarily from a population of uncertain size, the frequency or a causal relationship to GONAL-F cannot be reliably determined.

Body as a Whole - General: Hypersensitivity reactions including anaphylaxis

Respiratory System: Asthma exacerbation

Vascular Disorders: Thromboembolism

#### **8 USE IN SPECIFIC POPULATIONS**

#### 8.1 Pregnancy

#### **Risk Summary**

#### GONAL-F is not indicated in pregnant women

The incidence of congenital malformations after some Assisted Reproductive Technology, specifically in vitro fertilization (IVF) or intracytoplasmic sperm injection (ICSI)], may be slightly higher than that after spontaneous conception. This slightly higher incidence is thought to be related to differences in parental characteristics (e.g., maternal age, maternal and paternal genetic background, sperm characteristics) and to a higher incidence of multi-fetal gestations after IVF or ICSI. There is no human data that the use of gonadotropins (including GONAL-F) alone or as part of IVF or ICSI cycles, increases the risk of congenital malformations.

The risk of spontaneous abortion (miscarriage) is increased in women who have used gonadotropins products (including GONAL-F) to achieve pregnancy.

In animal studies, the continuous administration of recombinant human FSH during pregnancy resulted in a decrease in the number of viable fetuses and difficult and prolonged delivery. No teratogenic effect has been observed.

In the US general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

<u>Data</u>

#### Human Data

Data on a limited number of exposed pregnancies indicate no adverse reactions of gonadotropins on pregnancy, embryonal or fetal development, parturition or postnatal

development following controlled ovarian stimulation.

#### Animal Data

Embryofetal development studies with recombinant human FSH in rats, where dosing occurred during organogenesis, showed a dose dependent increase in difficult and prolonged parturition in dams, and dose dependent increases in resorptions, pre- and post-implantation losses, and stillborn pups at doses representing 5 and 41 times the lowest clinical dose of 75 International Units based on body surface area. Pre-/post-natal development studies with recombinant human FSH in rats, where dosing occurred from mid-gestation through lactation, showed difficult and prolonged parturition in all dams dosed at 41 times the lowest clinical dose of 75 International death and stillborn pups associated with the difficult and prolonged parturition. This toxicity was not observed in dams and offspring dosed at a level 5 times the lowest clinical dose of 75 International Units based on body surface area.

### 8.2 Lactation

There are no data on the presence of GONAL-F in human milk, the effects on the breastfed infant, or the effects on milk production. Because the secretion of prolactin during lactation can result in inadequate response to ovarian stimulation, advise women not to breast feed during treatment with GONAL-F.

#### 8.3 Females and Males of Reproductive Potential

Because GONAL-F is not indicated in pregnant women, verify a negative pregnancy test before administering GONAL-F to a woman *[see Dosage and Administration (2.3, 2.4)].* 

#### 8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

#### 8.5 Geriatric Use

Safety and effectiveness of GONAL-F in postmenopausal women have not been established and it is not indicated in this population.

### **10 OVERDOSAGE**

Ovarian hyperstimulation syndrome (OHSS) and multiple gestations have been observed in women with GONAL-F overdosage [see Warnings and Precautions (5.2,5.6)].

### **11 DESCRIPTION**

Follitropin alfa, a gonadotropin [human follicle stimulating hormone (hFSH)], is a glycoprotein hormone produced by recombinant DNA technology in a Chinese Hamster Ovary (CHO) cell line. It has a dimeric structure containing two glycoprotein subunits (alpha and beta). The alpha and beta subunits have 92 and 111 amino acids, respectively, and their primary and tertiary structures are indistinguishable from those of human follicle stimulating hormone. The molecular weight is approximately 31 kDa (14 kDa for alpha subunit and 17 kDa for beta subunit). GONAL-F (follitropin alfa) for injection is a sterile, lyophilized powder intended for subcutaneous injection after reconstitution.

Each multiple-dose vial of GONAL-F containing either 450 International Units (33 mcg) or 1050 International Units (77 mcg) follitropin alfa and the inactive ingredients dibasic sodium phosphate (0.89 mg), monobasic sodium phosphate (0.39 mg), and sucrose (30 mg). Phosphoric acid and/or sodium hydroxide may be used prior to lyophilization for pH adjustment. After reconstitution with supplied 1 mL of with Bacteriostatic Water for Injection (0.9% benzyl alcohol), USP, the resultant concentration is 600 IU/mL with a pH of approximately 6.5 to 7.5.

Under current storage conditions, GONAL-F may contain up to 10% of oxidized follitropin alfa.

#### **12 CLINICAL PHARMACOLOGY**

#### 12.1 Mechanism of Action

GONAL-F stimulates ovarian follicular growth in women who do not have primary ovarian failure. In order to bring about final maturation of the follicle and ovulation in the absence of an endogenous LH surge, human chorionic gonadotropin (hCG) must be given, following the administration of GONAL-F, when monitoring of the patient indicates that sufficient follicular development is achieved.

GONAL-F stimulates spermatogenesis in men with hypogonadotropic hypogonadism when administered with hCG.

#### **12.2 Pharmacodynamics**

Serum inhibin, estradiol, and total follicular volume responded as a function of time, with pronounced inter-woman variability in healthy volunteers administered GONAL-F. Pharmacodynamic effect lagged behind FSH serum concentration. Serum inhibin levels responded with the least delay and declined rapidly after discontinuation of GONAL-F. Follicular growth was most delayed and continued even after discontinuation of GONAL-F, and after serum FSH levels had declined. Maximum follicular volume correlated better with inhibin and estradiol peak levels than with FSH concentration. Inhibin rise was an early index of follicular development.

FSH serum levels following fixed (during the first five days) and then adjusted doses of GONAL-F were found to be poor predictors of follicular growth rate. High pre-treatment serum FSH levels may predict lower follicular growth rates.

Inhibin levels reached a plateau during the entire administration period and then returned to baseline despite high inter-male variation and the absence of down-regulation in healthy male volunteers administered GONAL-F.

#### **12.3 Pharmacokinetics**

Single dose and state-state pharmacokinetics of follitropin alfa were determined following subcutaneous administration of GONAL-F to healthy, down-regulated female volunteers, healthy adult male volunteers, and pituitary down-regulated women undergoing in vitro fertilization and embryo transfer (IVF/ET). The pharmacokinetic parameters of follitropin alfa following subcutaneous administration of GONAL-F are presented in Table 4.

#### Table 4: Pharmacokinetic Parameters (mean ± SD) of Follitropin Alfa

	Female			Male	
Population Healthy Fen Volunteer				Healthy Male Volunteers	
Dose (IU)	Single Dose (150 IU)	Multiple Dose (7 × 150 IU)	Multiple Dose (5 × 225 IU) <sup>,</sup>	Single Dose (225 IU)	Multiple Dose (7 × 225 IU)
<b>General Infor</b>	mation				
AUC (IU*hr/L)	176 ± 87	$187 \pm 61^{*}$		220 ± 109	$186 \pm 23^{*}$
C <sub>max</sub> (IU/L)	3 ± 1	9 ± 3		$2.5 \pm 0.8$	8.3 ± 0.9
Absorption					
Absolute Bioavailability (%)	66 ± 39				
T <sub>max</sub> (hr)	$16 \pm 10$	8 ± 6		$20 \pm 14$	$10.7 \pm 6.7$
Distribution					
Apparent Vd (L)			$10 \pm 3$		
Elimination <sup>†</sup>		·	·	·	
t <sub>1/2</sub> terminal (hr) <sup>‡</sup>	24 ± 11	24 ± 8	32	$41 \pm 14$	32 ± 4
CL/F (L/hr) <sup>§</sup>			0.7 ± 0.2	0.86 ± 0.48	0.90 ± 0.12

AUC=area under the concentration-time curve; CL/F=apparent clearance;  $C_{max}$ =peak serum concentration;  $T_{max}$ =time of  $C_{max}$ ;  $t_{1/2}$ =half-life; Vd=volume of distribution

\* Steady-state AUC<sub>144 hr-168 hr</sub> (after the 7th daily subcutaneous dose)
 + Follitropin alfa metabolism has not been studied in humans.

‡ The elimination rate of follitropin alfa following subcutaneous administration is dependent on the absorption rate.

§ The apparent clearance was comparable to that in healthy volunteers.

#### Specific Populations

#### Body Weight

The absorption rate of follitropin alfa lowers as body mass index (BMI) increases.

**Drug Interaction Studies** 

No studies evaluating the drug interaction potential of follitropin alfa has been conducted.

#### **13 NONCLINICAL TOXICOLOGY**

#### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long- term studies in animals have not been performed to evaluate the carcinogenic potential of GONAL-F. However, follitropin alfa showed no mutagenic activity in a series of tests performed to evaluate its potential genetic toxicity including, bacterial and mammalian cell mutation tests, a chromosomal aberration test and a micronucleus test.

Impaired fertility has been reported in rats, exposed to pharmacological doses of follitropin alfa (greater than or equal to 40 International Units per kg per day, greater than or equal to 5 times the lowest clinical dose of 75 International Units) for extended periods, through reduced fecundity.

#### **14 CLINICAL STUDIES**

#### 14.1 Induction of Ovulation

The safety and efficacy of GONAL-F were examined in a randomized, open-label, multicenter, active-controlled trial conducted in the U.S in oligo-anovulatory infertile women. Women were randomized to GONAL-F, administered subcutaneously, or a comparator urofollitropin product, administered intramuscularly.

The primary efficacy parameter was the ovulation rate. Two hundred and thirty-two women received treatment for up to three cycles with GONAL-F (118 women ) or urofollitropin (114 women).

Ovulation results for women who received treatment with GONAL-F in at least one cycle are summarized in Table 5.

	Gonal-F (n=118)		
Cycle	Cumulative <sup>*</sup> Percent Ovulation	Cumulative <sup>*</sup> Clinical Pregnancy <sup>†</sup> Rate	
Cycle 1	58% <sup>‡</sup>	13% <sup>§</sup>	
Cycle 2	72% <sup>§</sup>	25% <sup>§</sup>	
Cycle 3	81% <sup>§</sup>	37 <sup>§</sup>	

# Table 5: Cumulative Ovulation and Clinical Pregnancy Rates inInduction of Ovulation Trial

\* Cumulative rates were determined per woman over cycles 1, 2, and 3

† Clinical pregnancy was defined as a pregnancy for which a fetal sac (with or without heart activity) was visualized by ultrasound on day 34-36 after hCG administration

‡ Non-inferior to comparator recombinant human FSH based on a two-sided 95% confidence interval, intent-to-treat analysis.

§ Secondary efficacy outcomes. The trial was not powered to demonstrate differences in these outcomes.

For the 44 woman in the GONAL-F group who achieved clinical pregnancy, 22.7 % did not reach a term pregnancy, 63.6% had singleton births and 13.7% had multiple births.

An additional randomized, open-label, multinational, multicenter trial, active-comparator trial was conducted in oligo-anovulatory infertile women who failed to ovulate or conceive following adequate clomiphene citrate therapy. Results for the primary efficacy outcome of cumulative percent ovulation at Cycle 1 were similar to those presented in

Table 5 for the U.S. ovulation induction trial.

# 14.2 Development of Multiple Follicles as part of an Assisted Reproductive Technology (ART) Cycle:

The efficacy of GONAL-F in ART, was evaluated in a randomized, open-label, multicenter, active-controlled trial conducted ith the U.S, in ovulatory, infertile women undergoing stimulation of multiple follicles for In Vitro Fertilization (IVF) and Embryo Transfer (ET). All women received a gonadotrophin releasing hormone (GnRH) agonist for pituitary down-regulation before randomization and administration of GONAL-F (n=56) or a comparator urofollitropin product (n=58). The primary efficacy endpoint was the number of mature pre-ovulatory follicles on the day of hCG administration. The trial was not powered to demonstrate differences in secondary outcomes.

Treatment outcomes for a single IVF cycle with controlled stimulation with GONAL-F are summarized in Table 6.

	Gonal-F (n=56)
Mean number of follicles $\geq$ 14mm diameter on day of hCG <sup>*</sup> (n=50)	7.2
Mean number of oocytes recovered per patient <sup>†</sup> (n=49)	9.3
Mean Serum E2 (pg/mL) on day of hCG <sup>†</sup> (n=46)	1221
Mean treatment duration in days (range) <sup>†</sup> (n=56)	10.1 (5-15)
Clinical pregnancy <sup>‡</sup> rate per attempt <sup>†</sup> (n=56)	20%
Clinical pregnancy <sup>‡</sup> rate per embryo transfer <sup>†</sup> (n=47)	23%

# Table 6: Treatment Outcomes with GONAL-F in an In VitroFertilization Trial in Ovulatory Women

\* Primary efficacy outcome

+ Secondary efficacy outcomes. The trial was not powered to demonstrate differences in these outcomes.

‡ Clinical pregnancy was defined as a pregnancy for which a fetal sac (with or without heart activity) was visualized by ultrasound on day 34-36 after hCG administration.

For the 11 woman in the GONAL-F group who achieved clinical pregnancy, 36.3% did not reach a term pregnancy, 36.3% had singleton births and 27.3% had multiple births.

An additional randomized, open-label, multinational, multicenter study in ovulatory infertile women was conducted in non-U.S. countries. Women were randomized to receive either GONAL-F by subcutaneous administration (60 women) or urofollitropin by intramuscular administration (63 women) after down-regulation of the pituitary with a GnRH agonist. The primary efficacy parameter was the number of mature pre-ovulatory follicles on the day of hCG administration. Results over a single IVF cycle for the primary efficacy outcome of mature pre-ovulatory follicles on the day of hCG administration were similar to the primary efficacy results presented in Table 6 for the U.S.ART trial.

#### 14.3 Induction of Spermatogenesis in Males

The efficacy of GONAL-F administered concomitantly with human chorionic gonadotropin (hCG) for induction of spermatogenesis in men with hypogonadotropic hypogonadism was established in three open-label, uncontrolled, non-randomized, multicenter, multi-national, escalating dose clinical trials (Trials 1, 2 and 3) conducted in 78 adult men (aged 16 to 48 years) with primary or secondary hypogonadotropic hypogonadism (defined as serum testosterone <100 ng/mL and low or normal FSH and LH) and azoospermia (sperm concentration <0.1×10<sup>6</sup>/mL). Men were required at study entry to have normal serum cortisol and prolactin levels and be euthyroid. Men less than 21 years of age were required to have either confirmed anosmia or documented bone age >15 years to be eligible for study participation. Enrolled men received three to six months of pretreatment with hCG injection to normalize serum testosterone levels, followed by 18 months of treatment with GONAL-F and hCG.

Of the 78 men enrolled in the trials, 63 men were treated with GONAL-F and hCG.

Characteristics of the trial populations are shown in Table 7.

	Trial 1 N=32	Trial 2 N=10	Trial 3 N=36
Median age (range) (years)	26 (16-48)	37 (26-48)	30 (20-44)
Race n(%)			1
Caucasian	31 (97)	7 (70)	31 (86)
Asian	1 (3)	3 (30)	3 (8)
African- American	0	0	0
Other	0	0	2 (6)
Prior treatment with gonadotropin (FSH) or GnRH <sup>*</sup> agonist <sup>†</sup> (%)	0	5 (50)	4 (11)
Mean (SD) testis volume (mL) <sup>‡</sup>	2 (1)	5 (3)	4 (1)
N(%) with anosmia (i.e. diagnosis of Kallmann's syndrome)	12 (37)	2 (20)	13 (36)

Table 7	<b>Trial Population</b>	Characteristics	in Trials	1, 2 and
		3		

\* Gonadotropin releasing hormone (GnRH)

+ Prohibited in Trial 1

Hean testicular volume was required to be <4 mL in Trial 1 and <6 mL in Trial 3. Testicular size was not considered for enrollment into Trial 2.

The primary efficacy measure in all trials was the proportion of men achieving a sperm

density  $\geq 1.5 \times 10^{6}$ /mL during treatment with Gonal-F. Pregnancy (clinical and chemical) in partners of men desiring fertility was a secondary endpoint. Efficacy results in men who received at least one dose of Gonal-F and had at least one follow-up assessment are summarized in Table 8 and Table 9.

	Trial 1 (n=26)	Trial 2 (n=8)	Trial 3 (n=29)
Sperm Concentration ≥			
1.5 × 10 <sup>6</sup> /mL			
Yes	12 (46.2%)	5 (62.5%)	20 (80%)
No	14 (53.8%)	3 (37.5%)	5 (20%)
Missing			4
95% Confidence Interval	(26.6% -	(24.5% -	(40.7% -
	66.6%)	91.5%)	82.8%)

#### Table 8: Proportion of Men Receiving Gonal-F Who Achieved a Sperm Density ≥ 1.5 × 10<sup>6</sup>/mL

# Table 9: Pregnancy Outcome in Partners of Men DesiringFertility

	Trial 1 (n=7)*	Trial 2 (n=10)*	Trial 3 (n=26) <sup>*,</sup>
Pregnancy	6 (86%)	3 (30%)	5 (19%)
Pregnancy not reaching term	1 (14%)	1 (10%)	2 (8%)
Single full-term live births	5 (71%)	2 (20%)	3 (11%)

\* N reflects number of partners desiring pregnancy who had a partner at the time of enrollment, as not all enrolled men sought fertility

The time to achievement of sperm density  $\geq 1.5 \times 10^6$ /mL is summarized in Table 10.

Table 10: Time to Achievement of Sperm Density $\geq$ 1.5 $\times$	
10 <sup>6</sup> / mL in Men Receiving Gonal-F	

	Trial 1 (n=26)	Trial 2 (n=8)	Trial 3 (n=29)
Number (%) of Men			
Achieving Sperm			
Concentration			22 (76)
n	12 (46)	5 (62)	
Time (Months) to			
Sperm Concentration			
$\ge 1.5 \times 10^{6}$ /mL			
Median	12.4	9.1	9
Range	(2.7 - 18.1)	(8.8 - 11.7)	(2.8 - 18.2)

#### 16 How Supplied/Storage and Handling

#### 16.1 How Supplied

GONAL-F (follitropin alfa) for injection is supplied as a sterile, white lyophilized powder in multiple-dose vials of either 450 International Units per vial or 1050 International Units per vial.

The following package presentations are available:

NDC 44087-9030-1 - One multiple-dose vial of GONAL-F 450 International Units, one-1 mL prefilled diluent syringe of Bacteriostatic Water for Injection, USP (0.9% benzyl alcohol), and six adminstration syringes calibrated in FSH Units (IU FSH) with a fixed 27-gauge  $\times$  0.5-inch needle.

NDC 44087-9070-1 - One multiple-dose vial GONAL-F of 1050 International Units, one-2 mL prefilled diluent syringe of Bacteriostatic Water for Injection, USP (0.9% benzyl alcohol), and ten adminstration syringes calibrated in FSH Units (IU FSH) with a fixed 27-gauge  $\times$  0.5-inch needle.

#### 16.2 Storage and Handling

Store vials refrigerated between 2°C to 8°C (36°F to 46°F) or at room temperature between 20°C to 25°C (68°F to 77°F).

Store reconstituted solution refrigerated between 2°C to 8°C (36°F to 46°F) or at room temperature between 20°C to 25°C (68°F to 77°F) and discard unused portion after 28 days. Protect from light [see Dosage and Administration (2.2)].

#### **17 PATIENT COUNSELING INFORMATION**

Advise women and men to read the FDA-approved patient labeling (Patient Information and Instructions for Use)

#### Hypersensitivity Reactions and Anaphylaxis

Advise women and men to discontinue GONAL-F and seek immediate medical attention if any signs or symptoms of a hypersensitivity reaction occur [see Warnings and *Precautions (5.1)*].

#### **Ovarian Hyperstimulation Syndrome**

Inform women regarding the risks of OHSS [see Warnings and Precautions (5.2] and OHSS-associated conditions including pulmonary and vascular complications [see Warnings and Precautions (5.3)] and ovarian torsion [see Warnings and Precautions (5.4)] with the use of GONAL-F. Advise women to seek medical attention if any of these conditions occur.

#### Abnormal Ovarian Enlargement

Inform women regarding the hazards associated with abnormal ovarian enlargement that may occur with GONAL-F therapy. If the ovaries are abnormally enlarged on the last day of GONAL-F therapy, inform women not to administer hCG and to avoid intercourse [see Warnings and Precautions (5.5)].

#### Multi-fetal Gestation and Birth

Advise the woman and her partner of the potential risk of multi-fetal gestation and birth before beginning therapy withGONAL-F [see Warnings and Precautions (5.6)].

#### **Embryofetal Toxicity**

Inform women that the incidence of congenital malformations (birth defects) after some Assisted Reproductive Technology [(ART) specifically in vitro fertilization (IVF) or intracytoplasmic sperm injection (ICSI)] may be slightly higher than after spontaneous conception [see Warnings and Precautions (5.7)].

#### **Ectopic Pregnancy**

Inform women undergoing ART that the incidence of ectopic pregnancy may be increased with these procedures, particularly for women with tubal abnormalities. Advise women who become pregnant and have: abdominal/pelvic pain (particularly on one side); shoulder, neck or rectal pain; and nausea and vomiting to seek immediate medical attention [see Warnings and Precautions (5.8)].

#### Spontaneous Abortion

Inform women that the risk of spontaneous abortion (miscarriage) is increased with gonadotropin products (including GONAL-F). However, causality has not been established. The increased risk may be a factor of the underlying infertility [see Warnings and Precautions (5.9)].

#### Lactation

Advise women not to breastfeed because the secretion of prolactin during lactation can result in inadequate response to ovarian stimulation with Gonal-F [see Use in Specific Populations (8.2)].

#### Dosing and Use of GONAL-F Multi Dose

Instruct women and men on the correct usage and dosing of GONAL-F [see Dosage and Administration (2.3, 2.4 2.5)]. Caution against changing the dosage or the schedule of administration unless instructed to do so by a healthcare provider.

# Duration and Necessary Monitoring in Patients Undergoing Therapy with GONAL-F

Prior to beginning therapy with GONAL-F, inform women and men about the time commitment and monitoring procedures necessary for treatment [see Dosage and Administration (2.3, 2.4, 2.5) and Warnings and Precautions (5.11)].

#### Instructions Regarding a Missed Dose

Inform women and men that if they miss or forget to take a dose of GONAL-F, they should not double the next dose and should call their healthcare provider for further dosing instructions.

Manufactured by: EMD Serono, Inc., Rockland, MA 02370 U.S.A. US License No. 1773

Revised: 11/2023

#### PRINCIPAL DISPLAY PANEL - Kit Carton - 450 IU

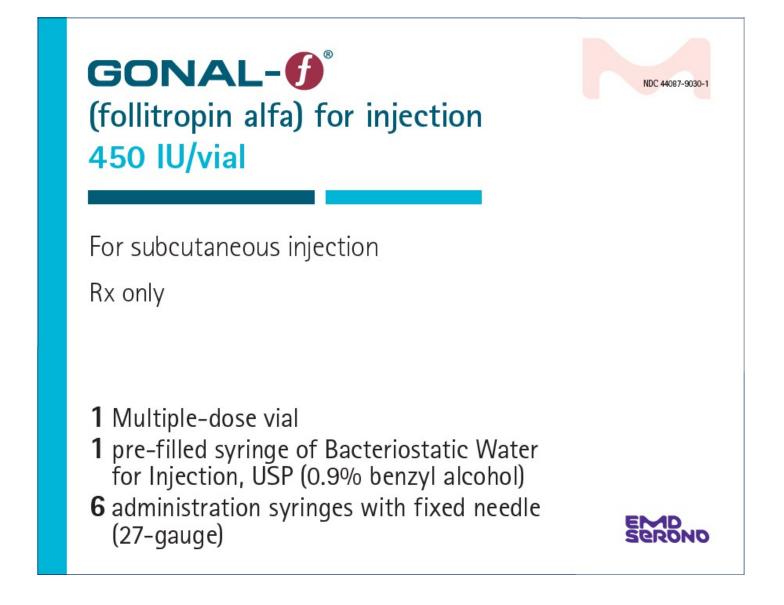
NDC 44087-9030-1

GONAL-f<sup>®</sup> (follitropin alfa) for injection 450 IU/vial

For subcutaneous injection Rx only

1 Multiple-dose vial 1 pre-filled syringe of Bacteriostatic Water for Injection, USP (0.9% benzyl alcohol) 6 administration syringes with fixed needle (27-gauge)

EMD SERONO



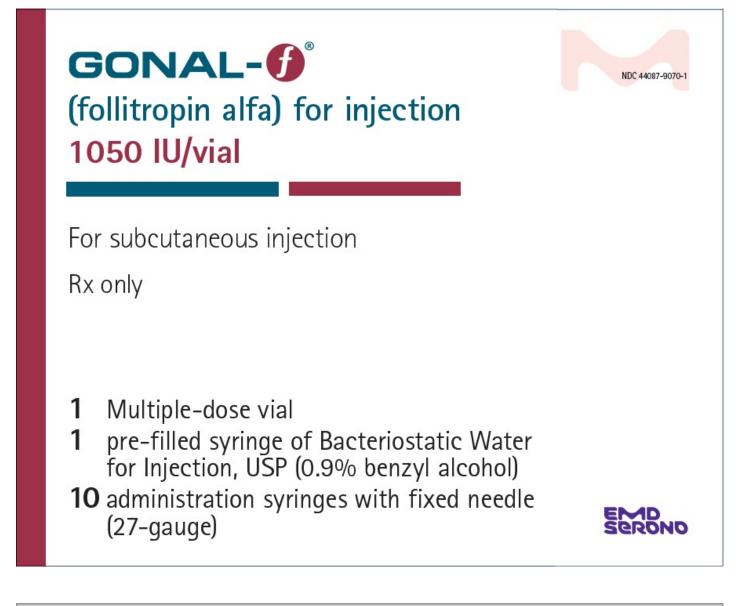
#### NDC 44087-9070-1

GONAL-f<sup>®</sup> (follitropin alfa) for injection 1050 IU/vial

For subcutaneous injection Rx only

1 Multiple-dose vial 1 pre-filled syringe of Bacteriostatic Water for Injection, USP (0.9% benzyl alcohol) 10 administration syringes with fixed needle (27-gauge)

EMD SERONO



**GONAL-F** 

Packaging  # tem Code Package Description Marketing Start Date Marketing End Date 1 NDC:44087-9030-1 1 in 1 CARTON 03/25/2004  Quantity of Parts Part # Package Quantity Total Product Quantity Part 1 1 VIAL Part 2 1 SYRINGE 1 mL Part 1 of 2 GONAL-F follitropin alfa injection, powder, lyophilized, for solution  Product Information Route of Administration SUBCUTANEOUS  Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW) FOLLTROPIN 450 [U] in 1 mL Inactive Ingredients  SUCROSE (UNII: C151H8M554) 30 mg in 1 mL SODIUM PHOSPHATE, IDASIC, DIHYDRATE (UNII: 9225J6E2T) 111 mg in 1 mL SODIUM PHOSPHATE, MANDBASIC, MONOHYDRATE (UNII: 593YOG76RN) 0.45 mg in 1 mL SODIUM PHOSPHATE, IDASIC, DIHYDRATE (UNII: 593YOG76RN) 0.45 mg in 1 mL SODIUM PHOSPHATE, ISAGA88ANN) SODIUM HYDROXIDE (UNII: 55X04QC320)							
Packaging            #         tem Code         Package Description         Marketing Start Date         Marketing End Date           1         NDC:44087-9030-1         1 in 1 CARTON         03/25/2004         Marketing End Date           Quantity of Parts         Package Quantity         Total Product Quantity           Part #         Package Quantity         1 mL           Part 1         1 VIAL         1 mL           Part 2         1 SYRINGE         1 mL           Part 1         of 2         GONAL-F           follitropin alfa injection, powder, lyophilized, for solution         Product Information           Route of Administration         SUBCUTANEOUS           Active Ingredient/Active Molety         Ingredient Name         Basis of Strength           Strength         Strength         Strength           SUBCUTANEOUS         30 mg in 1 mL         11 mg in 1 mL           Ingredient Name         Strength         Strength           SUCROSE (UNII: C151H8M554)         30 mg in 1 mL         30 mg in 1 mL           SoDIUM PHOSPHATE, DIBASIC, DIMPRATE (UNII: 94255/GE2T)         111 mg in 1 mL           SoDIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)         0.45 mg in 1 mL           SoDIUM HYDROXIDE (UNII: 55X04QC32I)         111 mg Stat           Packaging	Product Informa	ation					
Index         Package Description         Marketing Start Date         Marketing End Date           NDC:44087-9030-1         1 in 1 CARTON         03/25/2004         03/25/2004           Quantity of Parts         Package Quantity         Total Product Quantity           Part #         Package Quantity         1 mL           Part 1         1 VAL         1 mL           Part 2         1 SYRINGE         1 mL   Part 1 of 2 GONAL-F foolitropin alfa injection, powder, lyophilized, for solution Product Information Route of Administration SUBCUTANEOUS Active Ingredient/Active Moiety Ingredient Name Basis of Strength SUCROSE (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW) FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW) SODIUM PHOSPHATE, MONADAL, DIMPORATE (UNII: 9425516E2T) SODIUM PHOSPHATE, DIBASIC, DIMPORATE (UNII: 9425516E2T) SODIUM PHOSPHATE, DIBASIC, DIMPORATE (UNII: 9425516E2T) SODIUM PHOSPHATE, DIBASIC, DIMPORATE (UNII: 9425516E2T) SODIUM PHOSPHATE, MONADALSIC, MONOMYDRATE (UNII: 930YGG76RN) PHOSPHATE, MONADALSIC, MONOMYDRATE (UNII: 930YGG76RN) PHOSPHATE, MONADALSIC, MONOMYDRATE (UNII: 930YGG76RN) SODIUM PHOSPHATE, SEX04QC321) Packaging	Product Type	HUMAN PRES	CRIPTION DRUG	ltem Co	ode (Source)	NDC	44087-9030
Index         Package Description         Marketing Start Date         Marketing End Date           NDC:44087-9030-1         1 in 1 CARTON         03/25/2004         03/25/2004           Quantity of Parts         Package Quantity         Total Product Quantity           Part #         Package Quantity         1 mL           Part 1         1 VAL         1 mL           Part 2         1 SYRINGE         1 mL   Part 1 of 2 GONAL-F foolitropin alfa injection, powder, lyophilized, for solution Product Information Route of Administration SUBCUTANEOUS Active Ingredient/Active Moiety Ingredient Name Basis of Strength SUCROSE (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW) FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW) SODIUM PHOSPHATE, MONADAL, DIMPORATE (UNII: 9425516E2T) SODIUM PHOSPHATE, DIBASIC, DIMPORATE (UNII: 9425516E2T) SODIUM PHOSPHATE, DIBASIC, DIMPORATE (UNII: 9425516E2T) SODIUM PHOSPHATE, DIBASIC, DIMPORATE (UNII: 9425516E2T) SODIUM PHOSPHATE, MONADALSIC, MONOMYDRATE (UNII: 930YGG76RN) PHOSPHATE, MONADALSIC, MONOMYDRATE (UNII: 930YGG76RN) PHOSPHATE, MONADALSIC, MONOMYDRATE (UNII: 930YGG76RN) SODIUM PHOSPHATE, SEX04QC321) Packaging							
1 NDC:44087-9030-1       1 in 1 CARTON       03/25/2004         Quantity of Parts         Part #       Package Quantity       1 mL         Total Product Quantity         Jant 1 1 VAL         Part 1 1 VAL         Part 1 1 VAL         Part 1 of 2         GONAL-F         Follitropin alfa injection, powder, lyophilized, for solution         Product Information         Route of Administration         SUBCUTANEOUS         Active Ingredient/Active Molety         Ingredient Name         Basis of Strength	Packaging						
Quantity of Parts         Part #       Package Quantity       ImL         Part 1       1 MAL       1 mL         Part 2       1 SYRINGE       1 mL         Part 2       1 SYRINGE       1 mL         Part 2       1 SYRINGE       1 mL         Part 1       of 2       GONAL-F         Golikropin alfa injection, powder, lyophilized, for solution       Product Information         Product Information       SUBCUTANEOUS         Active Ingredient/Active Molety       Basis of Strength       Strength         Follitropin (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN       450 (U) in 1 mL         Inactive Ingredients       Ingredient Name       Strength       Strength         SoDIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 9425516E2T)       30 mg in 1 mL       1.11 mg in 1 mL         SoDIUM PHOSPHATE, MONDASIC, MONOHYDRATE (UNII: 593Y0G76RN)       0.45 mg in 1 mL         PHOSPHORIC ACID (UNII: 55X04QC32I)       0.45 mg in 1 mL         Packaging       Item       Package Description       Marketing Start       Marketing End Date         Inc. in 1 VAL; Type 1: Convenience Kit of Co-       Inc. in 1 VAL; Type 1: Convenience Kit of Co-	# Item Code	Package	e Description	Marketing	Start Date	Marketi	ng End Date
Part #       Package Quantity       Total Product Quantity         Part 1       1 WAL       1 mL         Part 2       1 SYRINGE       1 mL         Part 2       1 SYRINGE       1 mL         Part 3       of 2       500 MAL-F         Foollitropin alfa injection, powder, lyophilized, for solution       500 MAL-F         Product Information       SUBCUTANEOUS         Route of Administration       SUBCUTANEOUS         Active Ingredient/Active Moiety       Basis of Strength         Ingredient Name       Basis of Strength         SUCROSE (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN         Ingredient Name       Strength         SUCROSE (UNII: 076WHW8554)       30 mg in 1 mL         SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 9425516E2T)       1.11 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         HOSPHORIC ACID (UNII: S5X04QC32I)       0 mg in 1 mL         Packaging       #       Marketing Start       Marketing End         Date       1 mL in 1 VIAL; Type 1: Convenience Kit of Co-       Marketing End	L NDC:44087-9030-1	1 in 1 CART	ON	03/25/2004			
Part #       Package Quantity       Total Product Quantity         Part 1       1 WAL       1 mL         Part 2       1 SYRINGE       1 mL         Part 2       1 SYRINGE       1 mL         Part 1       of 2         GONAL-F       Foolilitropin alfa injection, powder, lyophilized, for solution         Product Information       SUBCUTANEOUS         Route of Administration       SUBCUTANEOUS         Active Ingredient/Active Moiety       Basis of Strength         Ingredient Name       Basis of Strength         SULITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN         Active Ingredients       Ingredient Name         Ingredient Name       Strength         SUCROSE (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN         SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 9425516E2T)       1.11 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM HYDROXIDE (UNII: 55X04QC32I)       Int in 1 VIAL; Type 1: Convenience Kit of Co-							
Part 1       1 VIAL       1 mL         Part 2       1 SYRINGE       1 mL         Part 1 of 2       GONAL-F       ImL         GONAL-F       Follitropin alfa injection, powder, lyophilized, for solution       Product Information         Route of Administration       SUBCUTANEOUS       SUBCUTANEOUS         Active Ingredient/Active Moiety       Ingredient Name       Basis of Strength         Solutropin (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN       450 (iU) in 1 mL         Inactive Ingredients       Ingredient Name       Strength         Solutropin Phosphate, DIBASIC, DIHYDRATE (UNII: 9425516E2T)       1.11 mg in 1 mL         Solutw Phosphate, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         HosphoRic Acid (UNII: State Adageadann)       Solutw HyDROXIDE (UNII: State Adageadann)       Solutw HyDROXIDE (UNII: State Adageadann)         Solutw HyDROXIDE (UNII: State Adageadann)       Solutw HyDROXIDE (UNII: State Adageadann)       Solutw HyDROXIDE (UNII: State Adageadann)	Quantity of Parl	ts					
Part 1       1 VIAL       1 mL         Part 2       1 SYRINGE       1 mL         Part 1 of 2       GONAL-F       GONAL-F         GOINAL-F       iolitropin alfa injection, powder, lyophilized, for solution       For solution         Product Information       SUBCUTANEOUS       SUBCUTANEOUS         Active Ingredient/Active Moiety       Ingredient Name       Basis of Strength         SolLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN       450 [iU] in 1 mL         Ingredient Name       Strength       30 mg in 1 mL         SolDIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 942516E2T)       1.11 mg in 1 mL         SolDIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SolDIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SolDIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SolDIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SolDIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SolDIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SolDIUM HYDROXIDE (UNII: SSX04QC32I)       Int in 1 VIAL; Type 1: Convenience Kit of Co-	Part # F	Package Qu	antity		Total Produ	ct Quanti	ty
Part 1 of 2         GONAL-F         follitropin alfa injection, powder, lyophilized, for solution         Product Information         Route of Administration         SUBCUTANEOUS         Active Ingredient/Active Moiety         Ingredient Name       Basis of Strength         Strength       Strength         FolLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN         Ingredient Name       Strength         SUCROSE (UNII: C151H6M554)       30 mg in 1 mL         SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)       1.11 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, ADNOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM HYDROXIDE (UNII: 55X04QC32I)       0       0.45 mg in 1 mL         Packaging       #       #       Marketing Start       Marketing End         Thu Lin 1 YUAL; Type 1: Convenience Kit of Co-       *       Marketing End       Date			-	1 mL			
GONAL-F         Follitropin alfa injection, powder, lyophilized, for solution         Product Information         Route of Administration       SUBCUTANEOUS         Active Ingredient/Active Moiety         Ingredient/Active Moiety         Ingredient Name       Basis of Strength       Strength         FolLITROPIN (UNII: 076WHW89TW) FOLLITROPIN       450 [U] in 1 mi         Ingredient Name       Strength         Strength       30 mg in 1 mL         SoDIUM PHOSPHATE, IDBASIC, DIHYDRATE (UNII: 94255I6E2T)       0.45 mg in 1 mL         SoDIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         Packaging         # Item       Marketing Start       Marketing End         I mL in 1 VIAL; Type 1: Convenience Kit of Co-	Part 2 1 SYRINGE			1 mL			
GONAL-F         follitropin alfa injection, powder, lyophilized, for solution         Product Information         Route of Administration         SUBCUTANEOUS         Active Ingredient/Active Moiety         Ingredient Name         FolLITROPIN (UNII: 076WHW89TW) FOLLITROPIN         FolLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)         Source Ingredients         Ingredient Name         Strength         Source Ingredients         Source Ingredients         Source Ingredients         Source Ingredients         Source Ingredient Name       Strength         Source Ingredient Name       Strength         Source Ingredient Name       Strength         Source Ingredients       30 mg in 1 mL         Source Ingredient Name       Strength         Source Ingredient Name       Strength							
GONAL-F         follitropin alfa injection, powder, lyophilized, for solution         Product Information         Route of Administration         SUBCUTANEOUS         Active Ingredient/Active Moiety         Ingredient Name         FolLITROPIN (UNII: 076WHW89TW) FOLLITROPIN         FolLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)         Source Ingredients         Ingredient Name         Strength         Source Ingredients         Source Ingredients         Source Ingredients         Source Ingredients         Source Ingredient Name       Strength         Source Ingredient Name       Strength         Source Ingredient Name       Strength         Source Ingredients       30 mg in 1 mL         Source Ingredient Name       Strength         Source Ingredient Name       Strength							
Product Information         Route of Administration         SUBCUTANEOUS         Active Ingredient/Active Moiety         Ingredient Name       Basis of Strength       Strength         FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN       450 (iU) in 1 mL         Ingredient Name       Basis of Strength       Strength         FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN       450 (iU) in 1 mL         Ingredient Name       Strength         Strength       S	Part 1 of 2						
Ingredient Name       Basis of Strength       Strength         FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN       450 [iU] in 1 mL         Inactive Ingredients       Ingredient Name       Strength         Inactive Ingredients       50 [iU] in 1 mL         Inactive Ingredients       30 mg in 1 mL         SUCROSE (UNII: C151H8M554)       30 mg in 1 mL         SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)       1.11 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         PHOSPHORIC ACID (UNII: 55X04QC32I)       0.45 mg in 1 mL         Packaging       Ittem Package Description       Marketing Start Date         I mL in 1 VIAL; Type 1: Convenience Kit of Co-       Marketing End	GONAL-F						
Ingredient Name       Basis of Strength       Strength         Cluitropin (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN       450 [iU] in 1 ml         Inactive Ingredients       Ingredient Name       Strength         Inactive Ingredients       Strength       30 mg in 1 mL         Inactive Ingredients       30 mg in 1 mL       1.11 mg in 1 mL         SOCIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)       1.11 mg in 1 mL       0.45 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL       0.45 mg in 1 mL         SODIUM PHOSPHATE, UNII: 55X04QC32I)       0.45 mg in 1 mL       0.45 mg in 1 mL         Packaging       # item Code       Package Description       Marketing Start Date       Marketing End Date         I mL in 1 VIAL; Type 1: Convenience Kit of Co-       1 mL in 1 VIAL; Type 1: Convenience Kit of Co-       0.45 mg       0.45 mg	follitropin alfa inject	tion, powdei	r, lyophilized, for	solution			
SUBCUTANEOUS         Active Ingredient/Active Moiety         Ingredient Name       Basis of Strength       Strength         FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN       450 [iU] in 1 mL         Ingredients       Ingredient Name       Strength         SUCROSE (UNII: C151H8M554)       Ingredient Name       Strength         SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)       30 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         PHOSPHORIC ACID (UNII: E4GA8884NN)       0.45 mg in 1 mL         SODIUM HYDROXIDE (UNII: 55X04QC32I)       0.45 mg in 1 mL         Packaging       Imate Package Description       Marketing Start         #       Item in 1 VIAL; Type 1: Convenience Kit of Co-       Marketing End		· ·					
SUBCUTANEOUS         Active Ingredient/Active Moiety         Ingredient Name       Basis of Strength       Strength         FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN       450 [iU] in 1 mL         Ingredients       Ingredient Name       Strength         SUCROSE (UNII: C151H8M554)       Ingredient Name       Strength         SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)       30 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         PHOSPHORIC ACID (UNII: E4GA8884NN)       0.45 mg in 1 mL         SODIUM HYDROXIDE (UNII: 55X04QC32I)       0.45 mg in 1 mL         Packaging       Imate Package Description       Marketing Start         #       Item in 1 VIAL; Type 1: Convenience Kit of Co-       Marketing End							
Active Ingredient/Active Moiety         Basis of Strength         Strength           FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)         FOLLITROPIN         450 [iU] in 1 ml           FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)         FOLLITROPIN         450 [iU] in 1 ml           Inactive Ingredients         Ingredient Name         Strength           SUCROSE (UNII: C151H8M554)         30 mg in 1 mL           SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)         1.11 mg in 1 mL           SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)         0.45 mg in 1 mL           PHOSPHORIC ACID (UNII: E4GA8884NN)         0.45 mg in 1 mL           SODIUM HYDROXIDE (UNII: 55X04QC32I)         450 [UNII: 55X04QC32I)							
Ingredient Name         Basis of Strength         Strength           FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)         FOLLITROPIN         450 [iU] in 1 mL           Inactive Ingredients         Ingredient Name         Strength           SUCROSE (UNII: C151H8M554)         30 mg in 1 mL           SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)         1.11 mg in 1 mL           SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)         0.45 mg in 1 mL           SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)         0.45 mg in 1 mL           SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)         0.45 mg in 1 mL           SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)         0.45 mg in 1 mL           PHOSPHORIC ACID (UNII: E4GA8884NN)         500IUM HYDROXIDE (UNII: 55X04QC32I)         500IUM HYDROXIDE (UNII: 55X04QC32I)	Product Informa	ation					
Ingredient Name         Basis of Strength         Strength           FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)         FOLLITROPIN         450 [iU] in 1 mL           Inactive Ingredients         Ingredient Name         Strength           SUCROSE (UNII: C151H8M554)         30 mg in 1 mL           SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)         1.11 mg in 1 mL           SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)         0.45 mg in 1 mL           SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)         0.45 mg in 1 mL           SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)         0.45 mg in 1 mL           SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)         0.45 mg in 1 mL           PHOSPHORIC ACID (UNII: E4GA8884NN)         500IUM HYDROXIDE (UNII: 55X04QC32I)         500IUM HYDROXIDE (UNII: 55X04QC32I)			SUBCUTANEOUS				
Ingredient Name         Basis of Strength         Strength           FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)         FOLLITROPIN         450 [iU] in 1 mL           Inactive Ingredients         Ingredient Name         Strength           SUCROSE (UNII: C151H8M554)         30 mg in 1 mL           SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)         1.11 mg in 1 mL           SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)         0.45 mg in 1 mL           SODIUM PHOSPHATE (UNII: 55X04QC32I)         5001000 HYDROXIDE (UNII: 55X04QC32I)			SUBCUTANEOUS				
FOLLITROPIN (UNII: 076WHW89TW) (FOLLITROPIN - UNII:076WHW89TW)       FOLLITROPIN       450 [iU] in 1 ml         Imactive Ingredients       Ingredient Name       Strength         SUCROSE (UNII: C151H8M554)       30 mg in 1 ml       30 mg in 1 ml         SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 9425516E2T)       1.11 mg in 1 mL       1.11 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL       0.45 mg in 1 mL         SODIUM HYDROXIDE (UNII: E4GA8884NN)       5500000000000000000000000000000000000			SUBCUTANEOUS				
Ingredients         Strength         SUCROSE (UNII: C151H8M554)       30 mg in 1 mL         SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)       1.11 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM HYDROXIDE (UNII: 55X04QC32I)         Packaging         Marketing Start Date       Marketing End Date         Marketing Start         Marketing End Date	Route of Administ	ration S					
Ingredient Name       Strength         SUCROSE (UNII: C151H8M554)       30 mg in 1 mL         SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)       1.11 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM HYDROXIDE (UNII: E4GA8884NN)       SODIUM HYDROXIDE (UNII: 55X04QC32I)         Packaging         Marketing Start       Marketing End Date         1 mL in 1 VIAL; Type 1: Convenience Kit of Co-	Route of Administ	ration s	loiety		Basis of S	itrength	Strength
Ingredient Name       Strength         SUCROSE (UNII: C151H8M554)       30 mg in 1 mL         SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)       1.11 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHORIC ACID (UNII: E4GA8884NN)       O.45 mg in 1 mL         SODIUM HYDROXIDE (UNII: 55X04QC32I)       O.45 mg in 1 mL         Packaging         # Item Code       Package Description       Marketing Start Date         1       1       1       1       1       1       1       1       1         1       1       mL in 1       VIAL; Type 1: Convenience Kit of Co-       Marketing Start       Marketing End Date	Route of Administr Active Ingredien	ration S nt/Active M Ingredie	loiety ent Name	076WHW89TW)		strength	-
Ingredient Name       Strength         SUCROSE (UNII: C151H8M554)       30 mg in 1 mL         SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)       1.11 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         SODIUM PHOSPHORIC ACID (UNII: E4GA8884NN)       0.45 mg in 1 mL         SODIUM HYDROXIDE (UNII: 55X04QC32I)       SODIUM HYDROXIDE (UNII: 55X04QC32I)         Marketing Start       Marketing Start         Package Description       Marketing Start       Marketing End Date         1 mL in 1 VIAL; Type 1: Convenience Kit of Co-       Image: Convenience Kit of Co-	Route of Administr Active Ingredien	ration S nt/Active M Ingredie	loiety ent Name	076WHW89TW)		strength	-
SUCROSE (UNII: C151H8M554)       30 mg in 1 mL         SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)       1.11 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         PHOSPHORIC ACID (UNII: E4GA8884NN)       0.45 mg in 1 mL         SODIUM HYDROXIDE (UNII: 55X04QC32I)       0.45 mg in 1 mL         Packaging       Marketing Start         Marketing End       Date         1 mL in 1 VIAL; Type 1: Convenience Kit of Co-       Marketing Co-	Route of Administr Active Ingredien	ration S nt/Active M Ingredie 76WHW89TW) (	loiety ent Name	076WHW89TW)		itrength	-
SODIUM PHOSPHATE, DIBASIC, DIHYDRATE (UNII: 94255I6E2T)       1.11 mg in 1 mL         SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         PHOSPHORIC ACID (UNII: E4GA8884NN)       0.45 mg in 1 mL         SODIUM HYDROXIDE (UNII: 55X04QC32I)       0.45 mg in 1 mL         Packaging       Marketing Start Date         #       Item Code       Marketing End Date         1 mL in 1 VIAL; Type 1: Convenience Kit of Co-       Imc in 1 VIAL; Type 1: Convenience Kit of Co-	Route of Administr Active Ingredien FOLLITROPIN (UNII: 0	ration S nt/Active M Ingredie 76WHW89TW) ( ents	<b>loiety</b> ent Name FOLLITROPIN - UNII:			strength	450 [iU] in 1 ml
SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN)       0.45 mg in 1 mL         PHOSPHORIC ACID (UNII: E4GA8884NN)       0.45 mg in 1 mL         SODIUM HYDROXIDE (UNII: 55X04QC32I)       0.45 mg in 1 mL         Package Description       Marketing Start Date         Marketing End Date       1 mL in 1 VIAL; Type 1: Convenience Kit of Co-	Route of Administr Active Ingredien FOLLITROPIN (UNII: 0 Inactive Ingredie	ration S nt/Active M Ingredie 76WHW89TW) ( ents	<b>loiety</b> ent Name FOLLITROPIN - UNII:				450 [iU] in 1 ml
PHOSPHORIC ACID (UNII: E4GA8884NN)         GODIUM HYDROXIDE (UNII: 55X04QC32I)         Packaging         Item Code       Package Description       Marketing Start Date       Marketing End Date         1       ImL in 1 VIAL; Type 1: Convenience Kit of Co-       Image Description       Image Description       Image Description	Route of Administr Active Ingredien FOLLITROPIN (UNII: 0 Inactive Ingredie SUCROSE (UNII: C151)	ration S nt/Active M Ingredie 76WHW89TW) ( ents H8M554)	loiety ent Name FOLLITROPIN - UNII: Ingredient Nan	ne		30	450 [iU] in 1 ml <b>Strength</b> mg in 1 mL
BODIUM HYDROXIDE (UNII: 55X04QC32I)         Package Description       Marketing Start Date         Item Code       Package Description       Marketing Start Date       Marketing End Date         1 mL in 1 VIAL; Type 1: Convenience Kit of Co-       1 mL in 1 VIAL; Type 1: Convenience Kit of Co-       1 mL in 1 VIAL; Type 1: Convenience Kit of Co-	Route of Administr Active Ingredien FOLLITROPIN (UNII: 0 Inactive Ingredie SUCROSE (UNII: C151) SODIUM PHOSPHATE	ration S ht/Active M Ingredie 76WHW89TW) ( ents H8M554) 5, DIBASIC, DI	loiety ent Name FOLLITROPIN - UNII: Ingredient Nan	n <b>e</b> 125516E2T)	FOLLITROPIN	30	450 [iU] in 1 ml <b>Strength</b> mg in 1 mL 1 mg in 1 mL
Item Code       Package Description       Marketing Start Date       Marketing End Date         ImL in 1 VIAL; Type 1: Convenience Kit of Co-       ImL in 1 VIAL; Type 1: Convenience Kit of Co-       ImL in 1 VIAL; Type 1: Convenience Kit of Co-	Route of Administr Active Ingredien FOLLITROPIN (UNII: 0 Inactive Ingredie SUCROSE (UNII: C1511 SODIUM PHOSPHATE	ration S ht/Active M Ingredie 76WHW89TW) ( ents H8M554) 5, DIBASIC, DI 5, MONOBASIC	loiety ent Name FOLLITROPIN - UNII: Ingredient Nan HYDRATE (UNII: 94 C, MONOHYDRATE	n <b>e</b> 125516E2T)	FOLLITROPIN	30	450 [iU] in 1 ml <b>Strength</b> mg in 1 mL 1 mg in 1 mL
Item Code     Package Description     Marketing Start Date     Marketing End Date       1 mL in 1 VIAL; Type 1: Convenience Kit of Co-     1 mL in 1 VIAL; Type 1: Convenience Kit of Co-	Route of Administr Active Ingredien FOLLITROPIN (UNII: 0 Inactive Ingredie SUCROSE (UNII: C1511 SODIUM PHOSPHATE FODIUM PHOSPHATE PHOSPHORIC ACID (U	ration S ht/Active M Ingredie 76WHW89TW) ( ents H8M554) E, DIBASIC, DI E, MONOBASIC JNII: E4GA8884	loiety ent Name FOLLITROPIN - UNII: Ingredient Nan IHYDRATE (UNII: 94 C, MONOHYDRATE	n <b>e</b> 125516E2T)	FOLLITROPIN	30	450 [iU] in 1 ml <b>Strength</b> mg in 1 mL 1 mg in 1 mL
Item Code     Package Description     Marketing Start Date     Marketing End Date       1 mL in 1 VIAL; Type 1: Convenience Kit of Co-     1 mL in 1 VIAL; Type 1: Convenience Kit of Co-	Route of Administr Active Ingredien FOLLITROPIN (UNII: 0 Inactive Ingredie SUCROSE (UNII: C1511 SODIUM PHOSPHATE FODIUM PHOSPHATE PHOSPHORIC ACID (U	ration S ht/Active M Ingredie 76WHW89TW) ( ents H8M554) E, DIBASIC, DI E, MONOBASIC JNII: E4GA8884	loiety ent Name FOLLITROPIN - UNII: Ingredient Nan IHYDRATE (UNII: 94 C, MONOHYDRATE	n <b>e</b> 125516E2T)	FOLLITROPIN	30	450 [iU] in 1 ml <b>Strength</b> mg in 1 mL 1 mg in 1 mL
Item Code     Package Description     Marketing Start Date     Marketing End Date       1 mL in 1 VIAL; Type 1: Convenience Kit of Co-     1 mL in 1 VIAL; Type 1: Convenience Kit of Co-	Route of Administr Active Ingredien FOLLITROPIN (UNII: 0 Inactive Ingredie SUCROSE (UNII: C1511 SODIUM PHOSPHATE SODIUM PHOSPHATE PHOSPHORIC ACID (U	ration S ht/Active M Ingredie 76WHW89TW) ( ents H8M554) E, DIBASIC, DI E, MONOBASIC JNII: E4GA8884	loiety ent Name FOLLITROPIN - UNII: Ingredient Nan IHYDRATE (UNII: 94 C, MONOHYDRATE	n <b>e</b> 125516E2T)	FOLLITROPIN	30	450 [iU] in 1 ml <b>Strength</b> mg in 1 mL 1 mg in 1 mL
Code     Date     Date       1 mL in 1 VIAL; Type 1: Convenience Kit of Co-     Iml in 1 VIAL; Type 1: Convenience Kit of Co-	Route of Administr Active Ingredien FOLLITROPIN (UNII: 0 Inactive Ingredie SUCROSE (UNII: C151) SODIUM PHOSPHATE PHOSPHORIC ACID (U SODIUM HYDROXIDE	ration S ht/Active M Ingredie 76WHW89TW) ( ents H8M554) E, DIBASIC, DI E, MONOBASIC JNII: E4GA8884	loiety ent Name FOLLITROPIN - UNII: Ingredient Nan IHYDRATE (UNII: 94 C, MONOHYDRATE	n <b>e</b> 125516E2T)	FOLLITROPIN	30	450 [iU] in 1 mL <b>Strength</b> mg in 1 mL 1 mg in 1 mL
	Route of Administr Active Ingredien FOLLITROPIN (UNII: 0 Inactive Ingredie SUCROSE (UNII: C1511 SODIUM PHOSPHATE SODIUM PHOSPHATE PHOSPHORIC ACID (U SODIUM HYDROXIDE Packaging # Item	ration S nt/Active M Ingredie 76WHW89TW) ( ents H8M554) E, DIBASIC, DI E, MONOBASIC JNII: E4GA8884 (UNII: 55X04Q	loiety ent Name FOLLITROPIN - UNII: Ingredient Nam IHYDRATE (UNII: 94 C, MONOHYDRATE 4NN) C32I)	ne 25516E2T) E (UNII: 593YOG	FOLLITROPIN 76RN) <b>Marketing Sta</b>	30 1.1 0.4	450 [iU] in 1 mL <b>Strength</b> mg in 1 mL 1 mg in 1 mL 5 mg in 1 mL 6 mg in 1 mL

	arketing	g Informat	tion		
	Marketing Category	, Applica	ation Number or Monograph Citation	h Marketing Star Date	t Marketing End Date
LA		BLA020378	3	03/25/2004	
22	art 2 of	2			
B/	ACTERIC	<b>OSTATIC</b> W	/ATER		
va	ter and ber	nzyl alcohol inj	ection, solution		
Pr	oduct Inf	ormation			
Ro	ute of Adm	inistration	SUBCUTANEOUS		
Ina	active Ing				
			ngredient Name	-	Strength
	TER (UNII: 05	OL (UNII: LKG849	4WBH)	1 m	L in 1 mL
Pa	ckaging				
	ltem Code	Pac	kage Description	Marketing Start Date	Marketing End Date
#	Code	mL in 1 SYRING	kage Description E; Type 1: Convenience Kit of Co-		
#	Code				
#	Code 1 P	mL in 1 SYRINGI ackage	E; Type 1: Convenience Kit of Co-		
#	Code	mL in 1 SYRING Package g Informat Applica	E; Type 1: Convenience Kit of Co-	Date	Date
# 1 <b>M</b> a	Code	mL in 1 SYRING Package g Informat Applica	E; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation	Date n Marketing Star	Date t Marketing End
# 1 <b>M</b> a	Code	mL in 1 SYRINGE ackage g Informat	E; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation	n Marketing Star Date	Date t Marketing Enc
# 1 Ma	Code	mL in 1 SYRINGE ackage g Informat	E; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation	n Marketing Star Date	Date t Marketing End
# 1 BLA	Code	mL in 1 SYRING ackage g Informat BLA020378 g Informat Applica	E; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation	h Marketing Star Date 03/25/2004	Date t Marketing End Date

**GONAL-F** follitropin alfa kit

Product Type	HUMAN PRE	SCRIPTION DRUG	Item	Code (Source		C:44087-9070
Floadet Type	HOMANTINE		item	code (Source		
Packaging						
# Item Code	Packar	ge Description	Markoti	ng Start Dat	o Marke	ting End Date
<b>1</b> NDC:44087-9070-1			03/25/2004	ing Start Dat		
1 NDC.44007 5070 1	I III I CAR		03/23/2004			
Quantity of Pai	ts					
Part #	Package Q	uantity		Total Pro	oduct Quan	itity
Part 1 1 VIAL			2 mL			
Part 2 1 SYRINGE			2 mL			
Part 1 of 2						
GONAL-F						
follitropin alfa injec	tion, powde	er, lyophilized, for	solution			
Product Inform						
Product Inform		SUBCUTANEOUS				
		SUBCUTANEOUS				
	tration					
Route of Administ	tration nt/Active			Basis c	of Strength	Strength
Route of Administ	tration nt/Active Ingredia	Moiety ent Name	:076WHW89TV		-	<b>Strength</b> 1050 [iU] in 2 ml
Route of Administ Active Ingredie	tration nt/Active Ingredia	Moiety ent Name	:076WHW89TV		-	-
Route of Administ Active Ingredie FOLLITROPIN (UNII: (	tration nt/Active Ingredio 076WHW89TW)	Moiety ent Name	:076WHW89TV		-	-
Route of Administ Active Ingredie	tration nt/Active Ingredio 076WHW89TW)	<b>Moiety</b> ent Name (FOLLITROPIN - UNII			-	1050 [iU] in 2 ml
Route of Administ Active Ingredie FOLLITROPIN (UNII: ( Inactive Ingred	tration nt/Active I Ingredia 076WHW89TW) ients	Moiety ent Name			PIN	1050 [iU] in 2 ml
Route of Administ Active Ingredie FOLLITROPIN (UNII: ( Inactive Ingred SUCROSE (UNII: C15:	tration nt/Active I Ingredie 076WHW89TW) ients	Moiety ent Name (FOLLITROPIN - UNII Ingredient Nar	ne		PIN 3	1050 [iU] in 2 ml <b>Strength</b> 0 mg in 2 mL
Route of Administ Active Ingredie FOLLITROPIN (UNII: ( Inactive Ingred	tration nt/Active I Ingredia 076WHW89TW) ients IH8M554) E, DIBASIC, I	Moiety ent Name (FOLLITROPIN - UNII Ingredient Nar DIHYDRATE (UNII: 94	<b>ne</b> 425516E2T)	V) FOLLITRO	PIN 3	1050 [iU] in 2 ml
Route of Administ Active Ingredie FOLLITROPIN (UNII: ( Inactive Ingred SUCROSE (UNII: C15: SODIUM PHOSPHAT SODIUM PHOSPHAT	tration nt/Active I Ingredie 076WHW89TW) ients ients IH8M554) E, DIBASIC, I E, MONOBAS	Moiety ent Name (FOLLITROPIN - UNII Ingredient Nar DIHYDRATE (UNII: 94 GIC, MONOHYDRAT	<b>ne</b> 425516E2T)	V) FOLLITRO	PIN 3	1050 [iU] in 2 ml <b>Strength</b> 0 mg in 2 mL .11 mg in 2 mL
Route of Administ Active Ingredie FOLLITROPIN (UNII: ( Inactive Ingred SUCROSE (UNII: C15: SODIUM PHOSPHAT	tration nt/Active I Ingredie 076WHW89TW) ients IH8M554) E, DIBASIC, I E, MONOBAS (UNII: E4GA888	Moiety ent Name (FOLLITROPIN - UNII Ingredient Nar DIHYDRATE (UNII: 94 SIC, MONOHYDRAT	<b>ne</b> 425516E2T)	V) FOLLITRO	PIN 3	1050 [iU] in 2 ml <b>Strength</b> 0 mg in 2 mL .11 mg in 2 mL
Route of Administ Active Ingredie FOLLITROPIN (UNII: ( Inactive Ingred SUCROSE (UNII: C15: SODIUM PHOSPHAT SODIUM PHOSPHAT PHOSPHORIC ACID (	tration nt/Active I Ingredie 076WHW89TW) ients IH8M554) E, DIBASIC, I E, MONOBAS (UNII: E4GA888	Moiety ent Name (FOLLITROPIN - UNII Ingredient Nar DIHYDRATE (UNII: 94 SIC, MONOHYDRAT	<b>ne</b> 425516E2T)	V) FOLLITRO	PIN 3	1050 [iU] in 2 ml <b>Strength</b> 0 mg in 2 mL .11 mg in 2 mL
Route of Administ Active Ingredie FOLLITROPIN (UNII: ( Inactive Ingred SUCROSE (UNII: C15: SODIUM PHOSPHAT SODIUM PHOSPHAT PHOSPHORIC ACID ( SODIUM HYDROXIDI	tration nt/Active I Ingredie 076WHW89TW) ients IH8M554) E, DIBASIC, I E, MONOBAS (UNII: E4GA888	Moiety ent Name (FOLLITROPIN - UNII Ingredient Nar DIHYDRATE (UNII: 94 SIC, MONOHYDRAT	<b>ne</b> 425516E2T)	V) FOLLITRO	PIN 3	1050 [iU] in 2 ml <b>Strength</b> 0 mg in 2 mL .11 mg in 2 mL
Route of Administ Active Ingredie FOLLITROPIN (UNII: ( Inactive Ingred SUCROSE (UNII: C15: SODIUM PHOSPHAT SODIUM PHOSPHAT PHOSPHORIC ACID ( SODIUM HYDROXIDI Packaging # Item	tration nt/Active I Ingredie 076WHW89TW) ients IH8M554) E, DIBASIC, I E, MONOBAS (UNII: E4GA888 E (UNII: 55X04	Moiety ent Name (FOLLITROPIN - UNII Ingredient Nar DIHYDRATE (UNII: 94 SIC, MONOHYDRAT	<b>ne</b> 425516E2T)	V) FOLLITRO	PIN 3	1050 [iU] in 2 ml Strength 0 mg in 2 mL .11 mg in 2 mL .45 mg in 2 mL
Route of Administ Active Ingredie FOLLITROPIN (UNII: ( Inactive Ingred SUCROSE (UNII: C15: SODIUM PHOSPHAT SODIUM PHOSPHAT PHOSPHORIC ACID ( SODIUM HYDROXIDI Packaging # Item Code	tration nt/Active I Ingredia D76WHW89TW) ients IH8M554) E, DIBASIC, I E, DIBASIC, I E, MONOBAS (UNII: E4GA888 E (UNII: 55X04 Packa in 1 VIAL; Typ	Moiety ent Name (FOLLITROPIN - UNII: Ingredient Nar DIHYDRATE (UNII: 94 SIC, MONOHYDRAT 34NN) QC32I)	<b>ne</b> 4255I6E2T) <b>E</b> (UNII: 593Y(	V) FOLLITRO	PIN 3	1050 [iU] in 2 ml Strength 0 mg in 2 mL .11 mg in 2 mL .45 mg in 2 mL
Route of Administ Active Ingredie FOLLITROPIN (UNII: ( Inactive Ingred SUCROSE (UNII: C15: SODIUM PHOSPHAT SODIUM PHOSPHAT PHOSPHORIC ACID ( SODIUM HYDROXIDI Packaging # Item Code 1 2 mL	tration nt/Active I Ingredia D76WHW89TW) ients IH8M554) E, DIBASIC, I E, DIBASIC, I E, MONOBAS (UNII: E4GA888 E (UNII: 55X04 Packa in 1 VIAL; Typ	Moiety ent Name (FOLLITROPIN - UNII: Ingredient Nar DIHYDRATE (UNII: 94 SIC, MONOHYDRATE 34NN) QC32I)	<b>ne</b> 4255I6E2T) <b>E</b> (UNII: 593Y(	V) FOLLITRO	PIN 3	1050 [iU] in 2 ml Strength 0 mg in 2 mL .11 mg in 2 mL .45 mg in 2 mL

Marketi		Applica	tion Number or Monograph	Marketing Start	Marketing End
Catego BLA	ry	BLA020378	Citation	<b>Date</b> 03/25/2004	Date
)LA		BLAU20378		03/23/2004	
Part 2 o	f 2				
BACTER	IOST	ATIC W	ATER		
water and b	enzyl a	alcohol inje	ction, solution		
Product In	nform	ation			
Route of Ad	Iminist	ration	SUBCUTANEOUS		
Inactive Ir	ngredi	ents			
	050050		gredient Name	2 ml	Strength
WATER (UNII: Benzyl Alco		KO0R)		2 mL	Strength in 2 mL
WATER (UNII: BENZYL ALCO		KO0R)		2 mL	•
BENZYL ALCO	DHOL (U	KO0R)		2 mL	•
BENZYL ALCO Packaging	DHOL (U	KOOR) INII: LKG8494		2 mL Marketing Start Date	•
BENZYL ALCO Packaging # Item	DHOL (U	KOOR) INII: LKG8494 <b>Pack</b> n 1 SYRINGE;	- WBH)	Marketing Start	in 2 mL Marketing End
BENZYL ALCO Packaging # Item Code	<b>DHOL</b> (U <b>J</b> 2 mL ir	KOOR) INII: LKG8494 <b>Pack</b> n 1 SYRINGE;	age Description	Marketing Start	in 2 mL Marketing End
BENZYL ALCO Packaging # Item Code 1	<b>DHOL</b> (U 2 mL ir Packag	KOOR) INII: LKG8494 <b>Pack</b> n 1 SYRINGE; je	WBH) age Description Type 1: Convenience Kit of Co-	Marketing Start	in 2 mL Marketing End
BENZYL ALCO Packaging # Item Code	2 mL ir Packag	KOOR) INII: LKG8494 Pack 1 SYRINGE; ge	WBH) age Description Type 1: Convenience Kit of Co-	Marketing Start	in 2 mL Marketing End Date
BENZYL ALCO Packaging # Item Code 1 Marketi Catego	2 mL ir Packag	KOOR) INII: LKG8494 Pack 1 SYRINGE; ge	age Description Type 1: Convenience Kit of Co- ion tion Number or Monograph	Marketing Start Date Marketing Start	in 2 mL Marketing End Date Marketing End
BENZYL ALCO Packaging # Item Code 1 Marketi Catego	2 mL ir Packag	KOOR) INII: LKG8494 Pack 1 SYRINGE; Je Iformat Applica	age Description Type 1: Convenience Kit of Co- ion tion Number or Monograph	Marketing Start Date Marketing Start Date	in 2 mL Marketing End Date Marketing End
BENZYL ALCO Packaging # Item Code 1 Marketi Catego	2 mL ir Packag	KOOR) INII: LKG8494 Pack n 1 SYRINGE; ge format Applica BLA020378	age Description Type 1: Convenience Kit of Co- ion tion Number or Monograph Citation	Marketing Start Date Marketing Start Date	in 2 mL Marketing End Date Marketing End
BENZYL ALCO Packaging # Item Code 1 Marketin Marketi	DHOL (U 2 mL ir Packag ng In ng ry	KOOR) INII: LKG8494 Pack 1 SYRINGE; of format Applica BLA020378	age Description Type 1: Convenience Kit of Co- ion tion Number or Monograph Citation	Marketing Start Date Marketing Start Date	in 2 mL Marketing End Date Marketing End

Labeler - EMD Serono, Inc. (088514898)

Revised: 11/2023

EMD Serono, Inc.