

# FOLLISTIM AQ- follitropin injection, solution

## Organon LLC

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### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use FOLLISTIM AQ Cartridge safely and effectively. See full prescribing information for FOLLISTIM AQ Cartridge.

**FOLLISTIM® AQ Cartridge (follitropin beta) injection, for subcutaneous use**  
**Initial U.S. Approval: 1997**

### INDICATIONS AND USAGE

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Follistim AQ Cartridge is a gonadotropin indicated:

#### **In Women for:**

- Induction of Ovulation and Pregnancy in Anovulatory Infertile Women in Whom the Cause of Infertility is Functional and Not Due to Primary Ovarian Failure (1.1)
- Pregnancy in Normal Ovulatory Women Undergoing Controlled Ovarian Stimulation as Part of an In Vitro Fertilization (IVF) or Intracytoplasmic Sperm Injection (ICSI) Cycle (1.2)

#### **In Men for:**

- Induction of Spermatogenesis in Men with Primary and Secondary Hypogonadotropic Hypogonadism (HH) in Whom the Cause of Infertility is Not Due to Primary Testicular Failure (1.3)

### DOSAGE AND ADMINISTRATION

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**See Dose Conversion Table 1 for Follistim AQ Cartridge with Pen Injector (2.1)**

#### ***In Anovulatory Women Undergoing Ovulation Induction (2.2):***

- Starting daily dose of 50 international units of Follistim AQ Cartridge is administered subcutaneously for at least the first 7 days. The dose is increased by 25 or 50 international units at weekly intervals until follicular growth and/or serum estradiol levels indicate an adequate response.
  - When an acceptable pre-ovulatory state is achieved, final oocyte maturation is achieved with 5,000 to 10,000 international units of urinary human chorionic gonadotropin (hCG).
  - The woman and her partner should have intercourse daily, beginning on the day prior to the administration of hCG and until ovulation becomes apparent.

#### ***In Normal Ovulatory Women Undergoing Controlled Ovarian Stimulation as Part of an In Vitro Fertilization or Intracytoplasmic Sperm Injection Cycle (2.3):***

- Starting dose of 200 international units (actual cartridge doses) of Follistim AQ Cartridge is administered subcutaneously for at least the first 7 days of treatment. Subsequent doses can be adjusted down or up based upon ovarian response as determined by ultrasound evaluation of follicular growth and serum estradiol levels. Dosage reduction in high responders can be considered from the 6th day of treatment onward according to individual response.
  - Final oocyte maturation is induced with a dose of 5,000-10,000 international units of urinary hCG.
  - Oocyte (egg) retrieval is performed 34 to 36 hours later.

#### ***Induction of Spermatogenesis in Men (2.4):***

- Pretreatment with urinary hCG alone (1,500 international units twice weekly) is required. If serum testosterone levels have not normalized after 8 weeks of hCG treatment, the dose may be increased to 3,000 international units twice a week.
- After normalization of serum testosterone levels, administer 450 international units per week (225 international units twice weekly or 150 international units three times weekly) of Follistim AQ Cartridge subcutaneously with the same pre-treatment hCG dose used to normalize testosterone levels.

### DOSAGE FORMS AND STRENGTHS

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Injection: Follistim AQ Cartridge 300 International Units per 0.36 mL in a single-patient-use cartridge (3)

Injection: Follistim AQ Cartridge 600 International Units per 0.72 mL in a single-patient-use cartridge (3)

Injection: Follistim AQ Cartridge 900 International Units per 1.08 mL in a single-patient-use cartridge (3)

### CONTRAINDICATIONS

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#### **Women and men who exhibit:**

- Prior hypersensitivity to recombinant hFSH products (4)
- High levels of FSH indicating primary gonadal failure (4)
- Presence of uncontrolled non-gonadal endocrinopathies (4)

- Hypersensitivity reactions related to streptomycin or neomycin (4)
- Tumors of the ovary, breast, uterus, testis, hypothalamus or pituitary gland (4)

**Women who exhibit:**

- Pregnancy (4, 8.1)
- Heavy or irregular vaginal bleeding of undetermined origin (4)
- Ovarian cysts or enlargement not due to polycystic ovary syndrome (PCOS) (4)

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

Treatment with Follistim AQ may result in:

- Abnormal Ovarian Enlargement (5.1)
- Ovarian Hyperstimulation Syndrome (OHSS) (5.2)
- Pulmonary and Vascular Complications (5.3)
- Ovarian Torsion (5.4)
- Multi-fetal Gestation and Birth (5.5)
- Congenital Anomalies (5.6)
- Ectopic Pregnancy (5.7)
- Spontaneous Abortion (5.8)
- Ovarian Neoplasms (5.9)

-----**ADVERSE REACTIONS**-----

The most common adverse reactions ( $\geq 2\%$ ) in women undergoing ovulation induction are ovarian hyperstimulation syndrome, ovarian cyst, abdominal discomfort, abdominal pain and lower abdominal pain. (6.1)

The most common adverse reactions ( $\geq 2\%$ ) in women undergoing controlled ovarian stimulation as part of an IVF or ICSI cycle are pelvic discomfort, headache, ovarian hyperstimulation syndrome, pelvic pain, nausea and fatigue. (6.1)

The most common ( $\geq 2\%$ ) adverse reactions in men undergoing induction of spermatogenesis are headache, acne, injection site reaction, injection site pain, gynecomastia, rash and dermoid cyst. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Organon USA LLC, a subsidiary of Organon & Co., at 1-844-674-3200 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

-----**USE IN SPECIFIC POPULATIONS**-----

Lactation: It is not known whether this drug is excreted in human milk. (8.2)

**See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.**

**Revised: 7/2023**

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

Follistim<sup>®</sup> AQ Cartridge (follitropin beta) injection, is indicated:

#### **In Women for:**

### **1.1 Induction of Ovulation and Pregnancy in Anovulatory Infertile Women in Whom the Cause of Infertility is Functional and Not Due to Primary Ovarian Failure**

Prior to initiation of treatment with Follistim AQ Cartridge:

- Women should have a complete gynecologic and endocrinologic evaluation.
- Primary ovarian failure should be excluded.
- The possibility of pregnancy should be excluded.
- Tubal patency should be demonstrated.
- The fertility status of the male partner should be evaluated.

### **1.2 Pregnancy in Normal Ovulatory Women Undergoing Controlled Ovarian Stimulation as Part of an In Vitro Fertilization (IVF) or Intracytoplasmic Sperm Injection (ICSI) Cycle**

Prior to initiation of treatment with Follistim AQ Cartridge:

- Women should have a complete gynecologic and endocrinologic evaluation and diagnosis of cause of infertility.
- The possibility of pregnancy should be excluded.
- The fertility status of the male partner should be evaluated.

#### **In Men for:**

### **1.3 Induction of Spermatogenesis in Men with Primary and Secondary Hypogonadotropic Hypogonadism (HH) in Whom the Cause of Infertility is Not Due to Primary Testicular Failure**

Prior to initiation of treatment with Follistim AQ Cartridge:

- Men should have a complete medical and endocrinologic evaluation.
- Hypogonadotropic hypogonadism should be confirmed and primary testicular failure should be excluded.
- Serum testosterone levels should be normalized with human chorionic gonadotropin (hCG) treatment.
- The fertility status of the female partner should be evaluated.

## **2 DOSAGE AND ADMINISTRATION**

### **2.1 General Dosing Information**

- Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. If the solution is not clear and colorless or has particles in it, the solution should not be used.
- Do not add any other medicines into the Follistim AQ Cartridge.
- Follistim AQ Cartridge with the pen injector device delivers on average an 18% higher amount of follitropin beta when compared to reconstituted Follistim delivered with a conventional syringe and needle. When administering Follistim AQ Cartridge, a lower starting dose and lower dose adjustments (as compared to reconstituted Follistim) should be considered. For that purpose the following Dose Conversion Table is provided:

**Table 1: Follistim AQ Cartridge Administered Subcutaneously with the Follistim Pen Dose Conversion Table\***

<b>Lyophilized recombinant FSH dosing with ampules or vials, using conventional syringe</b>	<b>Follistim AQ Cartridge dosing with the Follistim Pen</b>
75 IU	50 IU
150 IU	125 IU
225 IU	175 IU
300 IU	250 IU
375 IU	300 IU
450 IU	375 IU

\* Each value represents an 18% difference rounded to the nearest 25 IU increment.

## **2.2 Recommended Dosing in Anovulatory Women Undergoing Ovulation Induction**

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

- A starting daily dose of 50 international units of Follistim AQ Cartridge is administered [see *Dosage and Administration (2.1)*] subcutaneously daily for at least the first 7 days.
- Subsequent dosage adjustments are made at weekly intervals based upon ovarian response. If an increase in dose is indicated by the ovarian response, the increase should be made by 25 or 50 international units of Follistim AQ Cartridge at weekly intervals until follicular growth and/or serum estradiol levels indicate an adequate ovarian response.

The following should be considered when planning the woman's individualized dose:

- Appropriate Follistim AQ Cartridge dose adjustment(s) should be used to prevent multiple follicular growth and cycle cancellation.
- The maximum, individualized, daily dose of Follistim AQ Cartridge is 250 international units.
- Treatment should continue until ultrasonic visualizations and/or serum estradiol determinations approximate the pre-ovulatory conditions seen in normal individuals.
- When pre-ovulatory conditions are reached, 5,000 to 10,000 international units of urinary hCG are used to induce final oocyte maturation and ovulation. The administration of hCG must be withheld in cases where the ovarian monitoring suggests an increased risk of OHSS on the last day of Follistim AQ Cartridge therapy [see *Warnings and Precautions (5.1, 5.2, 5.10)*].
- The woman and her partner should be encouraged to have intercourse daily, beginning on the day prior to the administration of hCG and until ovulation becomes apparent [see *Warnings and Precautions (5.10)*].
- During treatment with Follistim AQ Cartridge and during a two-week post-treatment period, the woman should be assessed at least every other day for signs of excessive ovarian stimulation.

It is recommended that Follistim AQ Cartridge administration be stopped if the ovarian monitoring suggests an increased risk of OHSS or abdominal pain occurs.

Most OHSS occurs after treatment has been discontinued and reaches its maximum at about seven to ten days post-ovulation.

### **2.3 Recommended Dosing in Normal Ovulatory Women Undergoing Controlled Ovarian Stimulation as Part of an In Vitro Fertilization (IVF) or Intracytoplasmic Sperm Injection (ICSI) Cycle**

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

- A starting dose of 200 international units (actual cartridge doses) of Follistim AQ Cartridge is administered [*see Dosage and Administration (2.1)*] subcutaneously daily for at least the first 7 days of treatment.
- Subsequent to the first 7 days of treatment, the dose can be adjusted down or up based upon the woman's ovarian response as determined by ultrasound evaluation of follicular growth and serum estradiol levels. Dosage reduction in high responders can be considered from the 6th day of treatment onward according to individual response.

The following should be considered when planning the woman's individualized dose:

- For most normal responding women, the daily starting dose can be continued until pre-ovulatory conditions are achieved (seven to twelve days).
- For low or poor responding women, the daily dose should be increased according to the ovarian response. The maximum, individualized, daily dose of Follistim AQ Cartridge is 500 international units.
- For high responding women [those at particular risk of abnormal ovarian enlargement and/or ovarian hyperstimulation syndrome (OHSS)], decrease or temporarily stop the daily dose, or discontinue the cycle according to individual response [*see Warnings and Precautions (5.1, 5.2, 5.10)*].
- When a sufficient number of follicles of adequate size are present, dosing of Follistim AQ Cartridge is stopped and final maturation of the oocytes is induced by administering urinary hCG at a dose of 5,000 to 10,000 international units. The administration of hCG should be withheld in cases where the ovarian monitoring suggests an increased risk of OHSS on the last day of Follistim AQ Cartridge therapy [*see Warnings and Precautions (5.1, 5.2, 5.10)*].
- Oocyte (egg) retrieval should be performed 34 to 36 hours following the administration of hCG.

### **2.4 Recommended Dosing for Induction of Spermatogenesis in Men**

- Pretreatment with hCG is required prior to concomitant therapy with Follistim AQ Cartridge and hCG. An initial dosage of 1,500 international units of urinary hCG should be administered at twice weekly intervals to normalize serum testosterone levels. If serum testosterone levels have not normalized after 8 weeks of hCG treatment, the urinary hCG dose can be increased to 3,000 international units twice weekly [*see Clinical Studies (14.3)*].
- After normal serum testosterone levels have been reached, Follistim AQ Cartridge should be administered by subcutaneous injection concomitantly with hCG treatment. Follistim is given at a dosage of 450 international units per week, as either 225 international units twice weekly or 150 international units three times per week, in combination with the same hCG dose used to normalize testosterone levels. Based on delivery of a higher dose of follitropin beta with the Follistim AQ Cartridge and pen injector [*see Dosage and Administration (2.1)*], a lower dose of Follistim AQ Cartridge may be considered.

The concomitant therapy should be continued for at least 3 to 4 months before any improvement in spermatogenesis can be expected. If a man has not responded after this period, the combination therapy may be continued. Treatment response has been noted at up to 12 months.

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

Follistim AQ Cartridge is a clear and colorless solution available as:

Injection: 300 international units per 0.36 mL in a single-patient-use cartridge

Injection: 600 international units per 0.72 mL in a single-patient-use cartridge

Injection: 900 international units per 1.08 mL in a single-patient-use cartridge

### **4 CONTRAINDICATIONS**

Follistim AQ Cartridge is contraindicated in women and men who exhibit:

- Prior hypersensitivity to recombinant hFSH products
- High levels of FSH indicating primary gonadal failure
- Presence of uncontrolled non-gonadal endocrinopathies (e.g., thyroid, adrenal, or pituitary disorders) [see *Indications and Usage (1.1, 1.2, 1.3)*]
- Hypersensitivity reactions to streptomycin or neomycin. Follistim AQ may contain traces of these antibiotics
- Tumors of the ovary, breast, uterus, testis, hypothalamus or pituitary gland

Follistim AQ Cartridge is also contraindicated in women who exhibit:

- Pregnancy [see *Use in Specific Populations (8.1)*]
- Heavy or irregular vaginal bleeding of undetermined origin
- Ovarian cysts or enlargement not due to polycystic ovary syndrome (PCOS)

### **5 WARNINGS AND PRECAUTIONS**

Follistim AQ Cartridge should be used only by physicians who are experienced in infertility treatment. Follistim AQ Cartridge contains a potent gonadotropic substance capable of causing Ovarian Hyperstimulation Syndrome (OHSS) [see *Warnings and Precautions (5.2)*] with or without pulmonary or vascular complications [see *Warnings and Precautions (5.3)*] and multiple births [see *Warnings and Precautions (5.5)*]. Gonadotropin therapy requires the availability of appropriate monitoring facilities [see *Warnings and Precautions (5.10)*].

Careful attention should be given to the diagnosis of infertility and in the selection of candidates for Follistim AQ Cartridge therapy [see *Indications and Usage (1.1, 1.2, 1.3)* and *Dosage and Administration (2.2, 2.3, 2.4)*].

Switching to Follistim AQ Cartridge from other brands (manufacturer), types (recombinant, urinary), and/or methods of administration (Follistim Pen, conventional syringe) may necessitate an adjustment of the dose [see *Dosage and Administration (2)*].

#### **5.1 Abnormal Ovarian Enlargement**

In order to minimize the hazards associated with abnormal ovarian enlargement that may occur with Follistim AQ therapy, treatment should be individualized and the lowest effective dose should be used [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 overstimulation [see *Warnings and Precautions (5.8)*].

If the ovaries are abnormally enlarged on the last day of Follistim AQ therapy, hCG should not be administered in order to reduce the chances of developing Ovarian Hyperstimulation Syndrome (OHSS). Intercourse should be prohibited in patients with significant ovarian enlargement after ovulation because of the danger of hemoperitoneum resulting from ruptured ovarian cysts [see *Warnings and Precautions (5.3)*].

## **5.2 Ovarian Hyperstimulation Syndrome (OHSS)**

OHSS is a medical entity distinct from uncomplicated ovarian enlargement and may progress rapidly to become a serious medical condition. 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 OHSS developing are severe pelvic pain, nausea, vomiting, and weight gain. Abdominal pain, abdominal distension, gastrointestinal symptoms including nausea, vomiting and diarrhea, severe ovarian enlargement, 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 (5.3)*]. Transient liver function test abnormalities suggestive of hepatic dysfunction with or without morphologic changes on liver biopsy have also 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 a risk for OHSS evident prior to hCG administration [see *Warnings and Precautions (5.1)*], the hCG must be withheld. Cases of OHSS are more common, more severe, and more protracted if pregnancy occurs; therefore, women should be assessed for the development of OHSS for at least two weeks after hCG administration.

If serious OHSS occurs, gonadotropins, including hCG, should be stopped and consideration should be given as to whether the patient needs to be hospitalized. Treatment is primarily symptomatic and overall should consist of bed rest, fluid and electrolyte management, and analgesics (if needed). Because the use of diuretics can accentuate the diminished intravascular volume, diuretics should be avoided except in the late phase of resolution as described below. The management of OHSS may be divided into three phases as follows:

- *Acute Phase:*

Management should be directed at preventing hemoconcentration due to loss of intravascular volume to the third space and minimizing the risk of thromboembolic phenomena and kidney damage. 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 should be thoroughly assessed daily or more often based on the clinical need. Treatment, consisting of limited intravenous fluids, electrolytes, and 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.

OHSS increases the risk of injury to the ovary. The ascitic, pleural, and pericardial fluid should not be removed unless there is the necessity to relieve symptoms such as pulmonary distress or cardiac tamponade. Pelvic examination may cause rupture of an ovarian cyst, which may result in hemoperitoneum, and should therefore be avoided. If bleeding occurs and requires surgical intervention, the clinical objective should be to control the bleeding and retain as much ovarian tissue as possible.

During clinical trials with Follistim or Follistim AQ Cartridge therapy, OHSS occurred in 7.6% of 105 women (OI) and 6.4% of 751 women (IVF or ICSI) treated with Follistim and Follistim AQ Cartridge, respectively.

### **5.3 Pulmonary and Vascular Complications**

Serious pulmonary conditions (e.g., atelectasis, acute respiratory distress syndrome) have been reported in women treated with gonadotropins. In addition, thromboembolic reactions both in association with, and separate from OHSS have been reported following gonadotropin therapy. Intravascular thrombosis, which may originate in venous or arterial vessels, can result in reduced blood flow to vital organs or the extremities. Women with generally recognized risk factors for thrombosis, such as a 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 infarction. In rare cases, pulmonary complications and/or thromboembolic reactions have resulted in death. In women with recognized risk factors, the benefits of ovulation induction, in vitro fertilization (IVF) or intracytoplasmic sperm injection (ICSI) treatment need to be weighed against the risks. It should be noted that pregnancy itself also carries an increased risk of thrombosis.

## **5.4 Ovarian Torsion**

Ovarian torsion has been reported after treatment with Follistim AQ Cartridge and after intervention with other gonadotropins. This may be related to OHSS, pregnancy, previous abdominal surgery, past history of ovarian torsion, previous or current ovarian cyst and polycystic ovaries. Damage to the ovary due to reduced blood supply can be limited by early diagnosis and immediate detorsion.

## **5.5 Multi-fetal Gestation and Birth**

Multi-fetal gestation and births have been reported with all gonadotropin treatments including Follistim AQ Cartridge treatment. The woman and her partner should be advised of the potential risk of multi-fetal gestation and births before starting treatment.

## **5.6 Congenital Anomalies**

The incidence of congenital malformations after IVF or 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, 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.

## **5.7 Ectopic Pregnancy**

Since infertile women undergoing IVF or ICSI often have tubal abnormalities, the incidence of ectopic pregnancies might be increased. Early confirmation of an intrauterine pregnancy should be determined by  $\beta$ -hCG testing and transvaginal ultrasound.

## **5.8 Spontaneous Abortion**

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

## **5.9 Ovarian Neoplasms**

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

## **5.10 Laboratory Tests**

### For Women:

In most instances, treatment with Follistim AQ Cartridge will result only in follicular growth and maturation. In order to complete the final phase of follicular maturation and to induce ovulation, hCG must be given following the administration of Follistim AQ Cartridge or when clinical assessment indicates that sufficient follicular maturation has occurred. The degree of follicular maturation and the timing of hCG administration can both be determined with the use of sonographic visualization of the ovaries and endometrial lining in conjunction with measurement of serum estradiol levels. The combination of transvaginal ultrasonography and measurement of serum estradiol levels

is also useful for minimizing the risk of OHSS and multi-fetal gestations.

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

Direct or indirect indices of progesterone production are:

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

The following provide sonographic evidence of ovulation:

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

Sonographic evaluation of the early pregnancy is also important to rule out ectopic pregnancy.

For Men:

Clinical monitoring for spermatogenesis utilizes the following indirect or direct measures:

- Serum testosterone level
- Semen analysis

### **5.11 Follistim Pen**

The Follistim Pen is intended only for use with Follistim AQ Cartridge. The Follistim Pen is not recommended for the blind or visually impaired without the assistance of an individual with good vision who is trained in the proper use of the injection device.

## **6 ADVERSE REACTIONS**

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

- Abnormal Ovarian Enlargement [*see Warnings and Precautions (5.1)*]
- Ovarian Hyperstimulation Syndrome [*see Warnings and Precautions (5.2)*]
- Atelectasis [*see Warnings and Precautions (5.3)*]
- Thromboembolism [*see Warnings and Precautions (5.3)*]
- Ovarian Torsion [*see Warnings and Precautions (5.4)*]
- Multi-fetal Gestation and Birth [*see Warnings and Precautions (5.5)*]
- Congenital Anomalies [*see Warnings and Precautions (5.6)*]
- Ectopic Pregnancy [*see Warnings and Precautions (5.7)*]
- Spontaneous Abortion [*see Warnings and Precautions (5.8)*]
- Ovarian Neoplasms [*see Warnings and Precautions (5.9)*]

### **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.

*Ovulation Induction*

In a single cycle, multi-center, assessor-blind, parallel group, comparative study, a total of 172 chronic anovulatory women who had failed to ovulate and/or conceive with clomiphene citrate therapy, were randomized and treated with Follistim (105) or a urofollitropin comparator. Adverse reactions with an incidence of greater than 2% in either treatment group are listed in Table 2.

**Table 2: Common Adverse Reactions Reported at a Frequency of  $\geq 2\%$  in an Assessor-Blind, Comparative Study of Anovulatory Women Receiving Ovulation Induction**

System Organ Class/Adverse Reactions	Treatment Number (%) of Women	
	Follistim N=105 n (%)	Comparator N=67 n (%)
<b>Gastrointestinal disorders</b>		
Abdominal discomfort	3 (2.9)	1 (1.5)
Abdominal pain	3 (2.9)	2 (3.0)
Abdominal pain lower	3 (2.9)	1 (1.5)
<b>Reproductive system and breast disorders</b>		
Ovarian cyst	3 (2.9)	2 (3.0)
Ovarian hyperstimulation syndrome	8 (7.6)	3 (4.5)
<b>General disorders and administration site conditions</b>		
Pyrexia	0 (0.0)	2 (3.0)

Adverse reactions reported commonly (greater than or equal to 2% of women treated with Follistim) in other ovulation induction clinical trials were headache, abdominal distension, constipation, diarrhea, nausea, pelvic pain, uterine enlargement, vaginal hemorrhage and injection site reaction.

*In Vitro Fertilization/Intracytoplasmic Sperm Injection*

In a single cycle, multi-center, double-blind, parallel group, comparative study, a total of 1509 women were randomized to receive controlled ovarian stimulation with either Follistim AQ Cartridge (751 women were treated with Follistim AQ Cartridge) or a comparator and pituitary suppression with a gonadotropin releasing hormone (GnRH) antagonist as part of an in vitro fertilization (IVF) or intracytoplasmic sperm injection (ICSI) cycle. Table 3 lists adverse reactions with an incidence of greater than 2% in the group of women treated with Follistim AQ Cartridge.

**Table 3: Common Adverse Reactions Reported at a Frequency of  $\geq 2\%$  in a Randomized, Double-blind, Active-controlled, Comparative Study of Normal Ovulatory Women Undergoing Controlled Ovarian Stimulation as Part of an In Vitro Fertilization or Intracytoplasmic Sperm Injection Cycle**

	<b>Follistim AQ Cartridge</b>
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<b>System Organ Class/Adverse Reactions</b>	<b>Treatment N = 751 n* (%)</b>
<b>Nervous System disorders</b> Headache	55 (7.3%)
<b>Gastrointestinal disorders</b> Nausea	29 (3.9%)
<b>Reproductive system and breast disorders</b> Ovarian Hyperstimulation Syndrome Pelvic discomfort Pelvic Pain	48 (6.4%) 62 (8.3%) 41 (5.5%)
<b>General disorders and Administration site conditions</b> Fatigue	17 (2.3%)

\* n = number of women with the adverse reaction

### *Induction of Spermatogenesis*

In an open-label, non-comparative clinical trial, 49 men with hypogonadotropic hypogonadism were enrolled to receive pretreatment with hCG, followed by combination therapy with hCG and Follistim for induction of spermatogenesis. Of the 49 men, 30 received weekly Follistim doses of 450 international units; 24 of these 30 men received a total of 48 weeks of treatment with Follistim. Adverse reactions occurring with an incidence of greater than 2% in the 30 men treated with Follistim are listed in Table 4.

**Table 4: Common Adverse Reactions Reported at a Frequency of  $\geq 2\%$  in an Open-Label Clinical Trial in Men with Hypogonadotropic Hypogonadism**

<b>System Organ Class/Adverse Reactions</b>	<b>Follistim Treatment N=30 n (%)</b>
<b>Nervous system disorders</b> Headache	2 (6.7)
<b>General disorders and administration site disorders</b> Injection site reaction Injection site pain	2 (6.7) 2 (6.7)
<b>Skin and cutaneous tissue disorders</b> Acne Rash	2 (6.7) 1 (3.3)
<b>Reproductive system and breast disorders</b> Gynecomastia	1 (3.3)
<b>Neoplasms benign, malignant and unspecified</b>	

## 6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of Follistim and/or Follistim AQ Cartridge. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

### *Gastrointestinal disorders*

Abdominal distension, abdominal pain, constipation, diarrhea

### *General disorders and administration site conditions*

Injection site reaction

### *Reproductive system and breast disorders*

Breast tenderness, metrorrhagia, ovarian enlargement, vaginal hemorrhage

### *Skin and subcutaneous tissue disorders*

Rash

### *Vascular disorders*

Thromboembolism [see Warnings and Precautions (5.3)]

## 7 DRUG INTERACTIONS

No drug-drug interaction studies have been performed.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Risk Summary

Follistim AQ Cartridge is contraindicated for use in pregnant women and offers no benefit during pregnancy.

### 8.2 Lactation

#### Risk Summary

It is not known whether this drug is excreted in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Follistim AQ Cartridge and any potential adverse effects on the breastfed child from Follistim AQ Cartridge or from the underlying maternal condition.

### 8.4 Pediatric Use

Follistim AQ Cartridge is not indicated for use in pediatric patients. Clinical studies have not been conducted in the pediatric population.

### 8.5 Geriatric Use

Clinical studies of Follistim AQ Cartridge have not been conducted in patients 65 years of age and older.

## 10 OVERDOSAGE

Aside from the possibility of Ovarian Hyperstimulation Syndrome [see *Warnings and Precautions (5.2, 5.3)*] and multiple gestations [see *Warnings and Precautions (5.5)*], there is no additional information concerning the consequences of acute overdose with Follistim AQ Cartridge.

## 11 DESCRIPTION

Follitropin beta, 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 that of hFSH. The molecular weight is approximately 40 kDa.

Follistim AQ Cartridge (follitropin beta) injection is a sterile clear and colorless solution, containing either 300 International Units, 600 International Units, or 900 International Units of follitropin beta in disposable single-patient-use cartridges for subcutaneous use only with the Follistim Pen.

Each cartridge delivers 300 International Units in 0.36 mL and the inactive ingredients: benzyl alcohol (3.6 mg; preservative), methionine (0.18 mg), polysorbate 20 (0.072 mg), sodium citrate (4.64 mg), sucrose (18 mg), and Water for Injection USP. Hydrochloric acid NF and/or sodium hydroxide NF are used to adjust the pH to 7.

Each cartridge delivers 600 International Units in 0.72 mL and the inactive ingredients: benzyl alcohol (7.2 mg; preservative), methionine (0.36 mg), polysorbate 20 (0.144 mg), sodium citrate (9.3 mg), sucrose (36 mg), and Water for Injection USP. Hydrochloric acid NF and/or sodium hydroxide NF are used to adjust the pH to 7.

Each cartridge delivers 900 International Units in 1.08 mL and the inactive ingredients: benzyl alcohol (10.8 mg; preservative), methionine (0.54 mg), polysorbate 20 (0.216 mg), sodium citrate (13.9 mg), sucrose (54 mg), and Water for Injection USP. Hydrochloric acid NF and/or sodium hydroxide NF are used to adjust the pH to 7.

Under current storage conditions, Follistim AQ may contain up to 11% of oxidized follitropin beta.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

#### Women:

Follicle-stimulating hormone (FSH), the active component in Follistim AQ Cartridge, is required for normal follicular growth, maturation, and gonadal steroid production.

In women, the level of FSH is critical for the onset and duration of follicular development, and consequently for the timing and number of follicles reaching maturity. Follistim AQ Cartridge stimulates ovarian follicular growth in women who do not have primary ovarian failure. In order to effect the final phase of follicle maturation, resumption of meiosis and

rupture of the follicle in the absence of an endogenous LH surge, human chorionic gonadotropin (hCG) must be given following treatment with Follistim AQ Cartridge when patient monitoring indicates appropriate follicular development parameters have been reached.

Men:

Follistim when administered with hCG stimulates spermatogenesis in men with hypogonadotropic hypogonadism. FSH, the active component of Follistim, is the pituitary hormone responsible for spermatogenesis.

**12.3 Pharmacokinetics**

Pharmacokinetic parameters for Follistim AQ Cartridge were evaluated in an open-label, single-center, randomized study in 20 healthy women. Serum FSH values from a single subcutaneous injection of reconstituted Follistim lyophilized powder administered by conventional syringe were compared to those values following a single subcutaneous injection of Follistim AQ Cartridge administered with the Follistim Pen injector. Administration of follitropin beta with the Follistim Pen resulted an 18% increase in  $AUC_{0-\infty}$  and  $C_{max}$ . The 18% difference in serum FSH concentrations resulting from administration of the two formulations was due to differences between the anticipated and actual volume delivered with the conventional syringe. The pharmacokinetic parameters for Follistim AQ Cartridge are as follows:

**Table 5: Mean (SD) Pharmacokinetic Parameters of a Single Subcutaneous Injection of 150 IU of Follistim AQ Cartridge (n=20)**

	<b><math>AUC_{0-\infty}</math> (IU/L*h)</b>	<b><math>C_{max}</math> (IU/L)</b>	<b><math>t_{max}</math> (h)</b>	<b><math>t_{1/2}</math> (h)</b>	<b><math>CL_{app}</math> (L/h/kg)</b>
Follistim AQ Cartridge	215.1 (45.8)	3.4 (0.7)	12.9 (6.2)	33.4 (4.2)	0.01 (0.003)

$AUC_{0-\infty}$  Area under the curve  
 $C_{max}$  Maximum concentration  
 $t_{max}$  Time to maximum concentration  
 $t_{1/2}$  Elimination half-life  
 $CL_{app}$  Clearance

*Absorption:*

Women:

The bioavailability of Follistim following subcutaneous and intramuscular administration was investigated in healthy, pituitary-suppressed women given a single 300 international units dose. In these women, the area under the curve (AUC), expressed as the mean  $\pm$  SD, was equivalent between the subcutaneous ( $455.6 \pm 141.4$  IU\*h/L) and intramuscular ( $445.7 \pm 135.7$  IU\*h/L) routes of administration. However, equivalence could not be established with respect to the peak serum FSH levels ( $C_{max}$ ). The  $C_{max}$  achieved after subcutaneous administration and intramuscular administration was  $5.41 \pm 0.72$  international units/L and  $6.86 \pm 2.90$  international units/L, respectively. After subcutaneous or intramuscular injection the apparent dose absorbed was 77.8% and 76.4%, respectively.



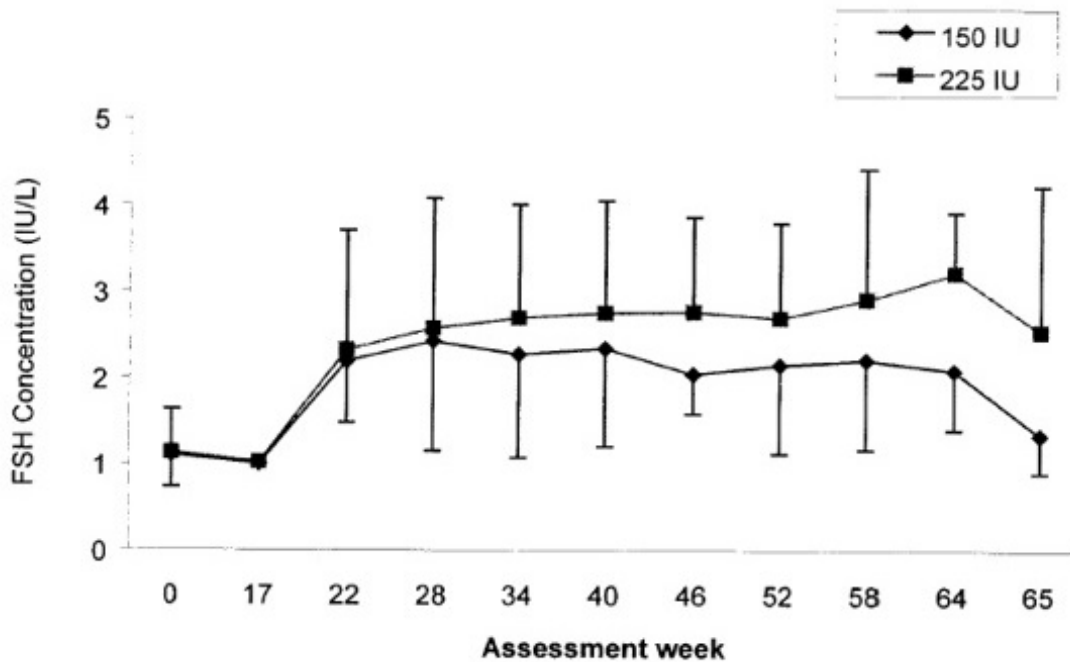
The pharmacokinetics and pharmacodynamics of a single, intramuscular dose (300 international units) of Follistim were also investigated in a group (n=8) of gonadotropin-deficient, but otherwise healthy women. In these women, FSH (mean  $\pm$  SD) AUC was  $339 \pm 105$  international units\*h/L,  $C_{max}$  was  $4.3 \pm 1.7$  international units/L.  $C_{max}$  occurred at approximately  $27 \pm 5.4$  hours after intramuscular administration.

A multiple dose, dose proportionality, pharmacokinetic study of Follistim was completed in healthy, pituitary-suppressed, female subjects given subcutaneous doses of 75, 150, or 225 international units for 7 days. Steady-state blood concentrations of FSH were reached with all doses after 5 days of treatment based on the trough concentrations of FSH just prior to dosing ( $C_{trough}$ ). Peak blood concentrations with the 75, 150, and 225 international units dose were  $4.30 \pm 0.60$  international units/L,  $8.51 \pm 1.16$  international units/L and  $13.92 \pm 1.81$  international units/L, respectively.

#### Men:

No PK studies were conducted using Follistim AQ Cartridge in men. Exposures of follitropin beta from Follistim AQ Cartridge and Follistim are expected to be equivalent after adjusting for the 18% difference in dose [see *Dosage and Administration (2)*].

Serum levels of FSH were measured in a clinical study that compared the effects of two different dosing schedules of Follistim (150 international units three times a week or 225 international units twice a week) administered by subcutaneous injection concurrently with chorionic gonadotropin for induction of spermatogenesis in hypogonadotropic hypogonadal men. Administration of Follistim was started at Week 17. Mean serum trough concentrations of FSH remained fairly constant over the treatment period. At the end of treatment (Week 64), the mean serum trough concentrations of FSH were 2.09 international units/L in the 150 international units group and 3.22 international units/L in the 225 international units group. Serum trough concentrations of FSH measured prior to the first Follistim injection on the Mondays of active treatment period (Weeks 17 to 64) and one week after the end of treatment period are presented in Figure 1.



**Figure 1: Mean (SD) Serum Trough Concentrations of FSH in Men Following Subcutaneous Administration of Follistim Using Two Different Dosing Schedules (150 International Units Three Times a Week or 225 International Units Twice a Week)**

*Distribution:*

The volume of distribution of Follistim in healthy, pituitary-suppressed, women following intravenous administration of a 300 international units dose was approximately 8 L.

*Metabolism:*

The recombinant FSH in Follistim AQ Cartridge is biochemically very similar to urinary FSH and it is therefore anticipated that it is metabolized in the same manner.

*Elimination:*

The elimination half-life ( $t_{1/2}$ ) following a single subcutaneous injection of 150 IU of Follistim AQ Cartridge in women was 33.4 (4.2) hours. The clearance was 0.01 (0.003) L/h/kg.

*Use in Specific Populations:*

**Body weight:** The effect of body weight on the pharmacokinetics of Follistim was evaluated in a group of European and Japanese women who were significantly different in terms of body weight. The European women had a body weight of (mean  $\pm$  SD) 67.4  $\pm$  13.5 kg and the Japanese subjects were 46.8  $\pm$  11.6 kg. Following a single intramuscular dose of 300 international units of Follistim, the AUC was significantly smaller in European women (339  $\pm$  105 international units\*h/L) than in Japanese women (544  $\pm$  201 international units\*h/L). However, clearance per kg of body weight was essentially the same for the respective groups (0.014 and 0.013 L/hr/kg).

**Geriatric Use:** The pharmacokinetics of Follistim has not been studied in geriatric

subjects.

**Pediatric Use:** The pharmacokinetics of Follistim has not been studied in pediatric subjects.

**Renal Impairment:** The effect of renal impairment on the pharmacokinetics of Follistim has not been studied.

**Hepatic Impairment:** The effect of hepatic impairment on the pharmacokinetics of Follistim has not been studied.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term toxicity studies in animals have not been performed with Follistim to evaluate the carcinogenic potential of the drug. Follistim was not mutagenic in the Ames test using *S. typhimurium* and *E. coli* tester strains and did not produce chromosomal aberrations in an *in vitro* assay using human lymphocytes.

## 14 CLINICAL STUDIES

### 14.1 Ovulation Induction

The efficacy of Follistim for ovulation induction was evaluated in a randomized, assessor-blind, parallel-group comparative, multicenter safety and efficacy study of 172 chronic anovulatory women (105 subjects on Follistim) who had previously failed to ovulate and/or conceive during clomiphene citrate treatment. The study results for ovulation rates are summarized in Table 6 and those for pregnancy rates are summarized in Table 7.

**Table 6: Cumulative Ovulation Rates**

Cycle	Follistim (n=105)
First treatment cycle	72%
Second treatment cycle	82%
Third treatment cycle	85%

**Table 7: Cumulative Ongoing\*, † Pregnancy Rates**

Cycle	Follistim (n=105)
First treatment cycle	14%
Second treatment cycle	19%
Third treatment cycle	23%

\* All ongoing pregnancies were confirmed after at least 12 weeks after the hCG injection.

† Study was not powered to demonstrate this outcome.

### 14.2 Controlled Ovarian Stimulation as Part of an In Vitro Fertilization (IVF) or

## Intracytoplasmic Sperm Injection (ICSI) Cycle

The efficacy of Follistim AQ Cartridge was evaluated in a randomized, double-blind, active-controlled study of 1,509 healthy normal ovulatory women (mean age, body weight, and body mass index of 32 years, 68 kg and 25 kg/m<sup>2</sup>, respectively) treated for one cycle with controlled ovarian stimulation and pituitary suppression with a GnRH antagonist as part of an in vitro fertilization or intracytoplasmic sperm injection cycle. This 2008 study was conducted in Europe and North America (United States and Canada). Approximately 54% of the subjects were from North America. The overall results, as well as the results from North America only, for clinical pregnancy are summarized in Table 8.

**Table 8: Pregnancy Results from Treatment With Follistim AQ Cartridge and a GnRH Antagonist in Normal Ovulatory Women Undergoing Controlled Ovarian Stimulation as Part of an In Vitro Fertilization or Intracytoplasmic Sperm Injection Cycle.\* Intent-to-Treat Population (ITT)**

Parameter	Follistim AQ Cartridge Overall data (n=750)	Follistim AQ Cartridge North American data (n=403)
Clinical pregnancy rate/cycle initiation <sup>†</sup>	41.1%	48.9%

\* Single treatment cycle results

<sup>†</sup> Clinical pregnancy was assessed  $\geq 6$  weeks after transfer of one or two embryos.

### 14.3 Induction of Spermatogenesis

The safety and efficacy of Follistim administered by subcutaneous injection concomitantly with chorionic gonadotropin for injection (hCG) has been examined in a multicenter, open-label, non-comparator clinical study for induction of spermatogenesis in hypogonadotropic hypogonadal men. The study compared the effects of two different Follistim dosing schedules on semen parameters and serum levels of follicle stimulating hormone (FSH). The multicenter study involved a 16-week pretreatment phase with urinary hCG at a dosage of 1,500 international units twice a week to normalize serum testosterone levels. If serum testosterone levels did not normalize after 8 weeks of hCG treatment, the urinary hCG dose could have been increased to 3,000 international units twice a week. This phase was followed by a 48-week treatment phase. Men who were still azoospermic after the pretreatment phase were randomized to receive either 225 international units Follistim together with 1,500 international units urinary hCG twice a week or 150 international units Follistim three times a week together with 1,500 international units urinary hCG twice weekly. Men who required 3,000 international units of urinary hCG twice a week in the pretreatment phase were continued on that dosage during the treatment phase. The mean age of patients in both treatment groups was approximately 30 years (range 18 to 47 years). At baseline, mean left and right testis volumes were  $4.61 \pm 2.94$  mL and  $4.57 \pm 3.00$  mL, respectively, in the group receiving three weekly injections of Follistim. For the group receiving two weekly injections of Follistim, the mean left and right testis volumes were  $6.54 \pm 2.45$  mL and  $7.21 \pm 2.94$

mL, respectively, at baseline. The primary efficacy endpoint was the percentage of patients with a mean sperm density of  $\geq 1 \times 10^6$ /mL on their last two treatment assessments. The outcomes of treatment in the 30 men enrolled in the treatment phase are summarized in Table 9.

**Table 9: Number of Men Receiving Follistim Who Achieved a Mean Sperm Density of  $\geq 10^6$ /mL on Their Last Two Treatment Assessments**

	Follistim 150 international units three times a week (n=15)		Follistim 225 international units twice a week (n=15)		Overall (n=30)	
	n	%	n	%	n	%
<b>Sperm Density of <math>\geq 10^6</math>/mL</b>						
Yes	6	40	7	47	13	43
No	9	60	8	53	17	57

Overall, the median time to reach a sperm concentration of  $10^6$  per mL was 165 days (range 25 to 327 days) in patients who demonstrated a sperm concentration of at least  $10^6$  per mL. The median time to reach a sperm concentration of at least  $10^6$  per mL was 186 days (range 25 to 327 days) for the 150 international units group and 141 days (range 43 to 204 days) for the 225 international units group. No pregnancy data were collected during the trial.

The local tolerance data were comparable between the two treatment groups. The mean percentage of days without pain calculated for all subjects in the treatment period was 91.3% for patients in the 150 international units (three times a week) and 76.0% for patients in the 225 international units (two times a week) Follistim treatment groups. In the 225 international units (twice per week) group, local symptoms judged as severe by the investigator were: itching in 1 patient (7%), pain in 2 patients (13%), bruising in 2 patients (13%), swelling in 2 patients (13%), and redness in 1 patient (7%). In the 150 international units (three times per week) group, 1 event in 1 patient (bruising, 7%) was judged as severe. No patient discontinued treatment due to injection site reaction or injection site pain.

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

Follistim AQ Cartridge (follitropin beta) injection is a clear and colorless solution in a disposable, prefilled single-patient-use glass cartridge with grey rubber piston and an aluminum crimp-cap with grey rubber inlay supplied in a box containing disposable, 29 gauge, ultra-fine, ½-inch, sterile BD Micro-Fine™ Pen Needles (for use with Follistim Pen available separately) and in the following presentations:

NDC 78206-129-01 Follistim AQ Cartridge 300 international units per 0.36 mL with silver crimp-caps and 5 BD Micro-Fine Pen Needles

NDC 78206-130-01 Follistim AQ Cartridge 600 international units per 0.72 mL with gold crimp-caps and 7 BD Micro-Fine Pen Needles

NDC 78206-131-01 Follistim AQ Cartridge 900 international units per 1.08 mL with blue crimp-caps and 10 BD Micro-Fine Pen Needles

**Pharmacy Storage:** Store refrigerated 2°C to 8°C (36°F to 46°F) until dispensed. Do not freeze.

**Patient Storage:** Store unused cartridge refrigerated at 2°C to 8°C (36°F to 46°F) until the expiration date, or at room temperature at up to 25°C (77°F) for 3 months or until expiration date, whichever occurs first. After first use, store at 2°C to 25°C (36°F to 77°F) and discard after 28 days. Store in the original carton to protect from light. Do not freeze.

## **17 PATIENT COUNSELING INFORMATION**

Advise the patient to read the FDA-approved patient labeling (Patient Information).

### **Dosing and Use of Follistim AQ Cartridge with Pen**

Instruct women and men on the correct usage and dosing of Follistim AQ Cartridge in conjunction with the Follistim Pen. Make sure that individuals who have used other gonadotropin products delivered by a syringe are aware of differences arising from use of the pen. Women and men should read and follow all instructions in the Follistim Pen "Instructions for Use" Manual prior to administration of Follistim AQ Cartridge.

Advise women and men of the number of doses which can be extracted from the full unused Follistim AQ Cartridge that you have prescribed.

### **Therapy Duration and Necessary Monitoring in Women and Men Undergoing Treatment**

Prior to beginning therapy with Follistim AQ Cartridge, inform women and men about the time commitment and monitoring procedures necessary to undergo treatment [*see Dosage and Administration (2), Warnings and Precautions (5.10)*].

### **Instructions on a Missed Dose**

Inform women and men that if they miss or forget to take a dose of Follistim AQ Cartridge, the next dose should not be doubled and they should call the healthcare provider for further dosing instructions.

### **Ovarian Hyperstimulation Syndrome**

Inform women regarding the risks with use of Follistim AQ Cartridge of Ovarian Hyperstimulation Syndrome [*see Warnings and Precautions (5.2)*] and associated symptoms including lung and blood vessel problems [*see Warnings and Precautions (5.3)*] and ovarian torsion [*see Warnings and Precautions (5.4)*].

### **Multi-fetal Gestation and Birth**

Inform women regarding the risk of multi-fetal gestations with the use of Follistim AQ Cartridge [*see Warnings and Precautions (5.5)*].

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## **PATIENT INFORMATION**

### **Follistim<sup>®</sup> (Fol'-lis-tim) AQ Cartridge (follitropin beta) injection for subcutaneous use**

Read this Patient Information before you start using Follistim<sup>®</sup> AQ Cartridge and each time you get a refill. There may be new information. This information does not take the place of talking with your healthcare provider about your medical condition or treatment.

#### **What is Follistim AQ Cartridge?**

Follistim AQ is a prescription medicine that contains follicle-stimulating hormone (FSH). The medicine is taken with the Follistim Pen<sup>®</sup>.

#### **Follistim AQ Cartridge is used:**

##### **In women:**

- to help healthy ovaries to develop (mature) and release eggs
- as part of treatment programs that use special techniques (skills) to help women get pregnant by causing their ovaries to produce more mature eggs

##### **In men:**

- to help bring about the production and development of sperm

#### **Who should not use Follistim AQ Cartridge?**

##### **Do not start using Follistim AQ Cartridge if you are a Woman or Man who:**

- is allergic to recombinant human FSH products
- has a high level of FSH in your blood indicating that your ovaries (women only) or testes (men only) may be permanently damaged and do not work at all
- has uncontrolled thyroid, pituitary, or adrenal gland problems
- is allergic to streptomycin or neomycin (types of antibiotics)
- has a tumor of the hypothalamus, pituitary gland, breast, uterus (women only), ovary (women only), or testis (men only)

##### **Do not start using Follistim AQ Cartridge if you are a Woman who:**

- is pregnant or think you may be pregnant
- has heavy or irregular vaginal bleeding and the cause is not known
- has ovarian cysts or enlarged ovaries, not due to polycystic ovary syndrome (PCOS)

Talk to your healthcare provider before taking this medicine if you have any of the conditions listed above.

##### **Before you use Follistim AQ, tell your healthcare provider about all of your medical conditions, including if you:**

- have an increased risk of blood clots (thrombosis)
- have ever had a blood clot (thrombosis), or anyone in your immediate family has ever

- had a blood clot (thrombosis)
- had stomach (abdominal) surgery
- had twisting of your ovary (ovarian torsion)
- had or have a cyst in your ovary
- have polycystic ovary disease
- have any other medical conditions
- are breastfeeding or plan to breastfeed. It is not known if the medicine in Follistim AQ Cartridge passes into your breast milk. You and your healthcare provider should decide if you will take Follistim AQ Cartridge or breastfeed. You should not do both.

**Tell your healthcare provider about all the medicines you take**, including prescription and non-prescription medicines, vitamins, and herbal supplements. Some medicines may affect how Follistim AQ Cartridge works. Follistim AQ Cartridge may also affect how your other medicines work. Keep a list of your medicines and show it to your healthcare provider and pharmacist when you get a new medicine.

### **How should I use Follistim AQ Cartridge?**

- Be sure that you read, understand, and follow the "Patient Instructions for Use" that come with Follistim AQ Cartridge.
- Use Follistim AQ Cartridge exactly as your healthcare provider tells you to.
- Your healthcare provider will tell you how much Follistim AQ Cartridge to use, how to inject it, and how often it should be injected.
- Do not inject Follistim AQ Cartridge at home until your healthcare provider has taught you the right way to put the cartridge and pen device together and to inject yourself.
- Do not mix any other medicines into the cartridge.
- Do not change your dose of Follistim AQ Cartridge unless your healthcare provider tells you to.
- Call your healthcare provider immediately if you use too much Follistim AQ Cartridge.
- If you miss or forget to take a dose, do not double your next dose. Ask your healthcare provider for instructions.
- Use Follistim AQ Cartridge only with the Follistim Pen.
- Do not use the Follistim Pen if you are blind or visually impaired unless you have assistance from an individual with good vision who is trained in the right way to use the pen.
- Do not re-use the BD Micro-Fine™ Pen Needle.
- Your healthcare provider will do blood and urine hormone tests while you are taking Follistim AQ Cartridge. Make sure you follow-up with your healthcare provider to have your blood and urine tested when told to do so.

### **Women:**

- Your healthcare provider may do ultrasound scans of your ovaries. Make sure you follow-up with your healthcare provider to have your ultrasound scans.

### **Men:**

- Your healthcare provider may test your semen while you are taking Follistim AQ Cartridge. Make sure you follow-up with your healthcare provider to give a semen sample for testing.

### **What are the possible side effects of Follistim AQ Cartridge?**

**Side effects are grouped by how serious they are and how often they may**



**happen.**

**Serious side effects include:**

**In women:**

- Ovarian enlargement
- Ovarian hyperstimulation syndrome (OHSS). OHSS is a serious medical problem that can happen when the ovaries are over stimulated. In rare cases it has caused death. OHSS causes fluid to build up suddenly in your stomach and chest areas and can cause blood clots to form.
- Lung problems. Follistim AQ Cartridge can cause you to have fluid in your lungs (atelectasis) and trouble breathing (acute respiratory distress syndrome).
- Blood clots. Follistim AQ Cartridge may increase your chance of having blood clots in your blood vessels. Blood clots can cause:
  - blood vessel problems (thrombophlebitis)
  - stroke
  - loss of your arm or leg
  - blood clot in your lungs (pulmonary embolus)
  - heart attack
- Ovarian torsion. Follistim AQ Cartridge may increase the chance of twisting of the ovaries in women with certain conditions such as OHSS, pregnancy and previous abdominal surgery. Twisting of the ovary could cause the blood flow to the ovary to be cut off.
- Pregnancy and birth of multiple babies. Having a pregnancy with more than one baby at a time increases the health risk for you and your babies. Discuss your chances of multiple births with your healthcare provider.
- Birth defects. A woman's age, certain sperm problems, genetic background of both parents and a pregnancy with multiple babies can increase the chance that your baby might have birth defects.
- Ectopic pregnancy (pregnancy outside of the womb). The chance of a pregnancy outside of the womb is increased in women with damaged fallopian tubes.
- Miscarriage. The chance of loss of an early pregnancy may be increased in women who have difficulty with becoming pregnant at all.

**Call your healthcare provider right away if you develop any of the following:**

- pain in your lower stomach area
- nausea
- vomiting
- weight gain
- diarrhea
- decreased urine output
- trouble breathing
- any other unusual symptoms that concern you

**The most common side effects of Follistim AQ Cartridge include:**

**In women:**

- headache
- nausea
- stomach pain
- discomfort or pain in the lower stomach area

- cyst (closed sac) in the ovary
- feeling tired

**In men:**

- headache
- pain at the injection site
- bruising, swelling or redness at the injection site
- breast enlargement
- acne
- testicular cyst

These are not all the possible side effects of Follistim AQ Cartridge. For more information, ask your healthcare provider or pharmacist.

**Call your healthcare provider immediately** if you get worsening or strong pain in the lower stomach area (abdomen). Also, call your healthcare provider immediately if this happens some days after the last injection has been given.

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

**How should I store Follistim AQ Cartridge?**

- Store Follistim AQ Cartridge in the refrigerator between 2°C to 8°C (36°F to 46°F) until the expiration date.
- Follistim AQ can be stored at or below 25°C (77°F) for 3 months or until the expiration date, whichever comes first. Once the rubber inlay of the Follistim AQ Cartridge has been pierced by a needle, the product may be stored only for a maximum of 28 days at 2°C to 25°C (36°F to 77°F).
- Keep Follistim AQ Cartridge away from light.
- Do not freeze.

**Keep Follistim AQ Cartridge and all medicines out of the reach of children.**

**General information about Follistim AQ Cartridge**

Medicines are sometimes prescribed for purposes other than those listed in the Patient Information leaflet. Do not use Follistim AQ for a condition for which it was not prescribed. Do not give Follistim AQ Cartridge to other people, even if they have the same condition that you have. It may harm them.

This Patient Information leaflet summarizes the most important information about Follistim AQ Cartridge. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for more information about Follistim AQ Cartridge that is written for healthcare professionals.

For more information, go to [www.follistim.com](http://www.follistim.com) or call 1-844-674-3200.

**What are the ingredients in Follistim AQ Cartridge?**

Active ingredient: follitropin beta

Inactive ingredients: benzyl alcohol NF-10 mg/mL (preservative), methionine, polysorbate 20, sodium citrate, sucrose, Water for Injection. Hydrochloric acid and/or sodium

hydroxide are used to adjust the pH.

Manufactured by: Organon USA LLC, a subsidiary of  
ORGANON & Co.,  
Jersey City, NJ 07302, USA  
U.S. License No. 2331

BD, BD Logo and BD Micro-Fine are trademarks of Becton, Dickinson and Company.

For patent information: [www.organon.com/our-solutions/patent/](http://www.organon.com/our-solutions/patent/)

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Revised: 2/2024

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## **INSTRUCTIONS FOR USE**

### **FOLLISTIM® (Fol´-lis-tim) AQ Cartridge (follitropin beta) injection, for subcutaneous use**

Read this Instructions for Use before you start using FOLLISTIM® AQ Cartridge and each time you get a refill. There may be new information. This information does not take the place of talking with your healthcare provider about your medical condition or treatment.

#### **Important Information**

- FOLLISTIM AQ Cartridge is injected subcutaneously (beneath the skin) only.
- FOLLISTIM AQ Cartridge is for single-patient-use only.
- FOLLISTIM AQ Cartridge is used with FOLLISTIM Pen (supplied separately).
- FOLLISTIM Pen is not recommended for use by the blind or visually impaired without the help of a person trained to use the injection device.
- Learn about all of the parts of the FOLLISTIM Pen (See Figure 1), FOLLISTIM AQ Cartridge (See Figure 2) and the BD Micro-Fine™ Pen Needle (See Figure 3).
- The BD Micro-Fine™ Pen Needle is for use only with the FOLLISTIM AQ Cartridge. Each needle is for 1 injection only.
- Do not add any other medicine to the FOLLISTIM AQ Cartridge.
- Be very careful when handling the needle. If you are giving an injection to another person, accidental needle sticks with used needles can cause serious infections or infections that may lead to death.

#### **Storing FOLLISTIM AQ Cartridge**

- Store unused FOLLISTIM AQ Cartridge in the refrigerator between 36°F to 46°F (2°C to 8°C) until the expiration date.
- If needed, FOLLISTIM AQ Cartridge can be stored at room temperature up to 77°F (25°C) for 3 months or until the expiration date, whichever comes first.
- After first use, store FOLLISTIM AQ Cartridge either in the refrigerator or at room temperature between 36°F to 77°F (2°C to 25°C). Throw away after 28 days, even if there is still medicine in the FOLLISTIM AQ Cartridge.
- Keep FOLLISTIM AQ Cartridge in the original carton to protect from light.
- Do not freeze.

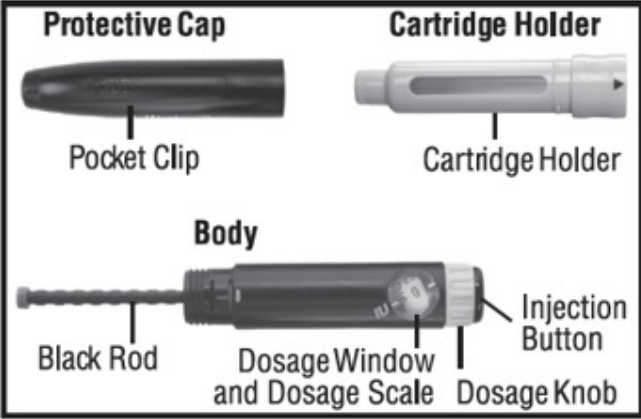
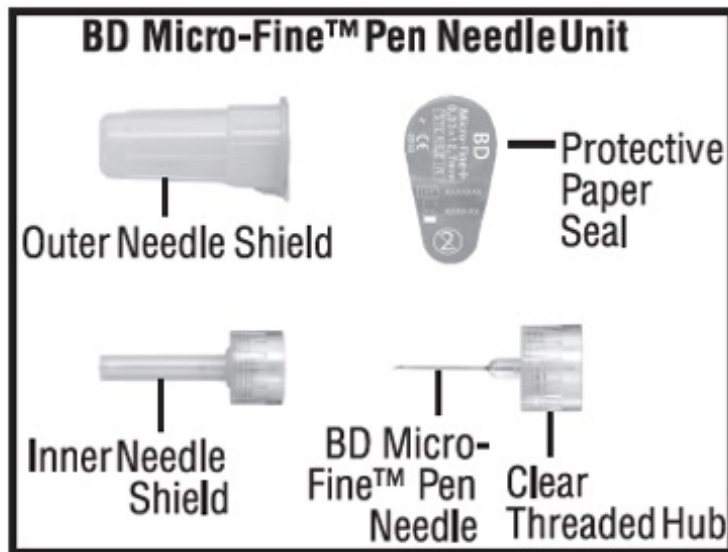


Figure 1. FOLLISTIM Pen and its Parts



Figure 2. Parts of FOLLISTIM AQ Cartridge



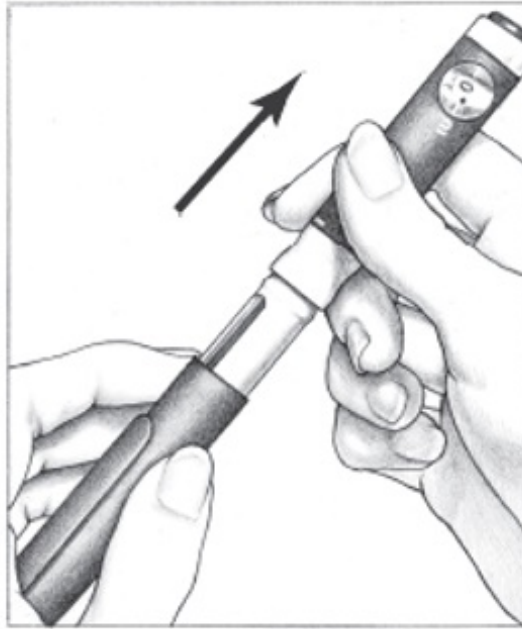
**Figure 3. Parts of BD Micro-Fine Pen Needle Unit**

### A. Getting Ready

- Remove the FOLLISTIM AQ Cartridge out of the refrigerator.
- Injecting cold medicine can cause discomfort at the injection site. Allow the FOLLISTIM AQ Cartridge to reach room temperature before injecting.
- Check the liquid in the cartridge to make sure it is clear and colorless. **Do not use**, if the liquid is not clear and colorless or has particles in it.
- **Gather the supplies you will need for your injection. You will need:**
  - a clean dry surface
  - FOLLISTIM Pen
  - FOLLISTIM AQ Cartridge
  - BD Micro-Fine Pen Needle
  - alcohol pads
  - cotton balls or sterile gauze
  - a puncture-proof container to throw away the used cartridge and needle
- Wash your hands with soap and water and dry them before you use FOLLISTIM Pen and when you replace the cartridge.

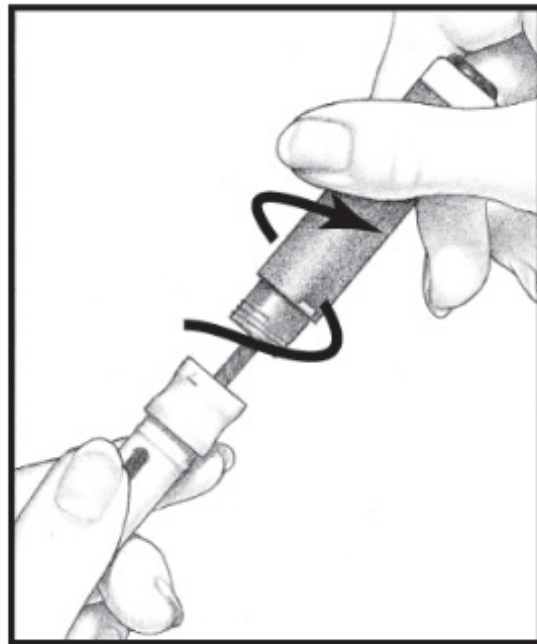
### B. Loading the FOLLISTIM Pen with the FOLLISTIM AQ Cartridge

- Hold the FOLLISTIM Pen Body firmly with one hand. With the other hand, pull the Protective Cap straight off with your other hand (See Figure 4). Put the cap aside on a clean, dry surface.



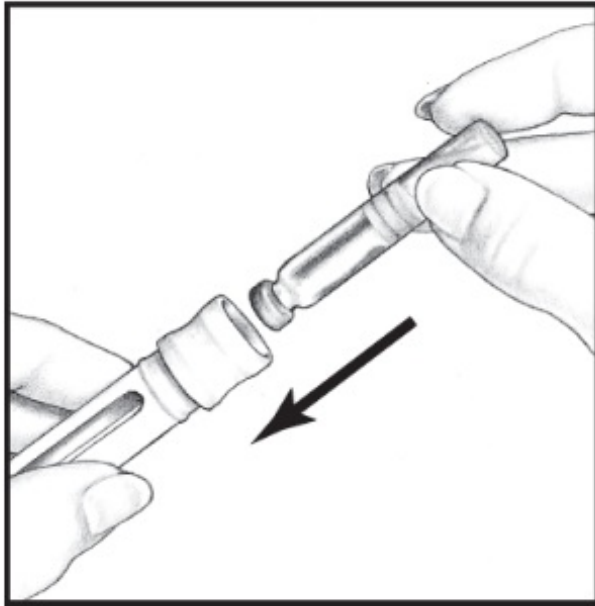
**Figure 4**

- Unscrew the Pen Body from the Cartridge Holder (See Figure 5). Place the Cartridge Holder and the Pen Body aside.



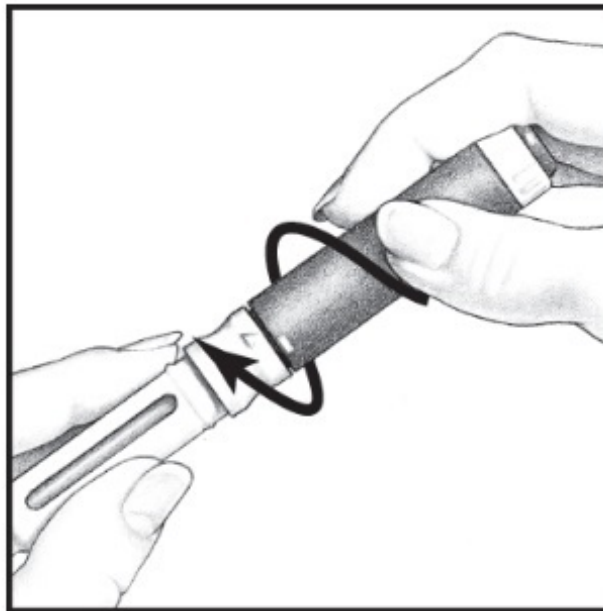
**Figure 5**

- Take the FOLLISTIM AQ Cartridge out of the package. Clean the rubber inlay on the cartridge with an alcohol pad. Put the FOLLISTIM AQ Cartridge into the Cartridge Holder (See Figure 6). The metal rimmed cap goes in first.



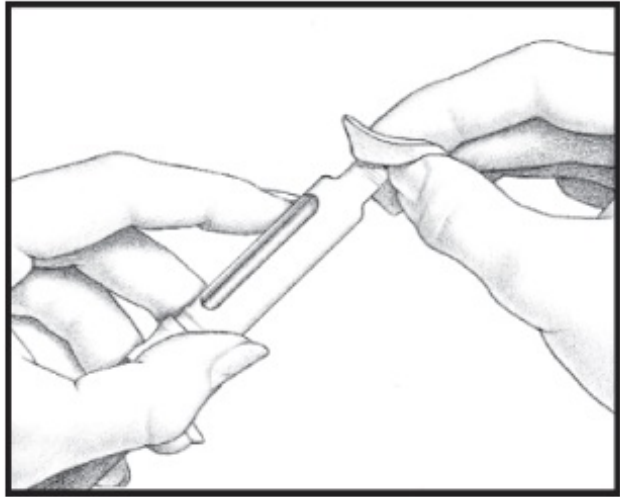
**Figure 6**

- Insert the Pen Body into the Cartridge Holder. The black rod must press against the Rubber Piston on the cartridge. Screw the Pen Body fully onto the Cartridge Holder (See Figure 7). Make sure there is no gap between the Pen Body and the Cartridge Holder. The arrow (▲) on the Cartridge Holder should point to the middle of the yellow alignment mark (■) on the Pen Body.



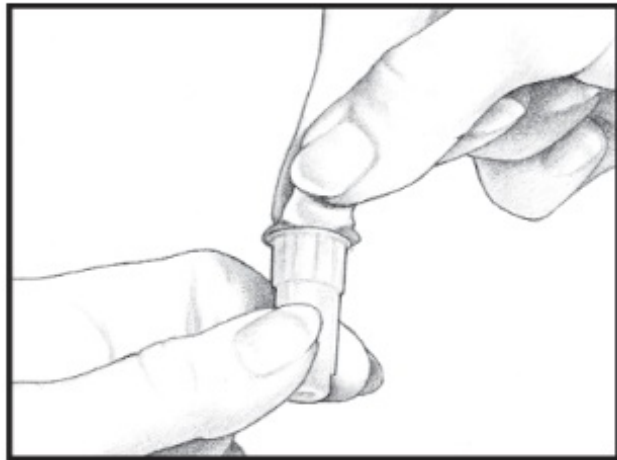
**Figure 7**

- Clean the open end of the Cartridge Holder with an alcohol pad (See Figure 8).



**Figure 8**

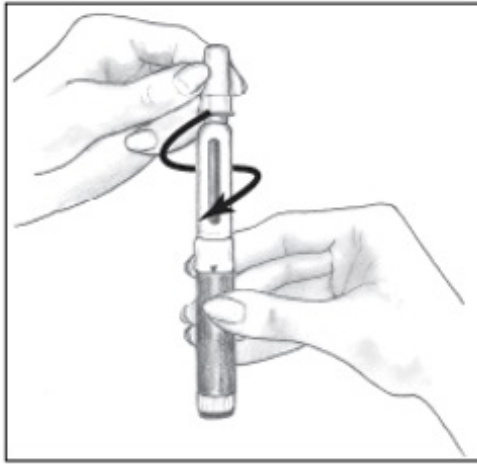
- Pick up a new BD Micro-Fine Pen Needle that is in its Outer Needle Shield. Peel off the protective paper seal (See Figure 9). **Do not** touch the needle. **Do not** place the open needle on any surface. **Use only the BD Micro-Fine 0.33 mm × 12.7 mm (29G) Pen Needles as supplied with the FOLLISTIM AQ Cartridge.**
- Use a new BD Micro-Fine Pen Needle with each injection. Never reuse a needle. Attach a new BD Micro-Fine Pen Needle after you make sure there is a FOLLISTIM AQ Cartridge in the Cartridge Holder.



**Figure 9**

- Hold the Outer Needle Shield firmly in one hand while holding the Cartridge Holder firmly in the other hand. Push the end of the Cartridge Holder into the Outer Needle Shield. Screw them tightly together (See Figure 10). Place your FOLLISTIM Pen aside.

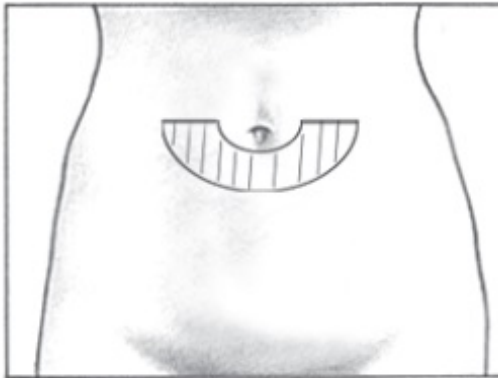




**Figure 10**

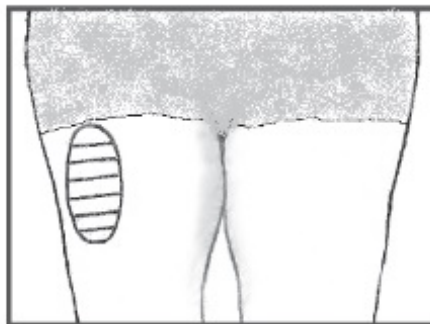
### **C. Preparing the Injection Site**

- When giving a subcutaneous injection, follow your healthcare provider's instructions about changing the site for each injection. This will help lower your chances of having a skin reaction.
- **Do not** inject FOLLISTIM AQ Cartridge into an area that is tender, red, bruised, or hard.
- The recommended sites for injecting FOLLISTIM AQ Cartridge are:
  - just below your belly button (navel) (See Figure 11)



**Figure 11**

- the upper outer area of your thigh (See Figure 12)

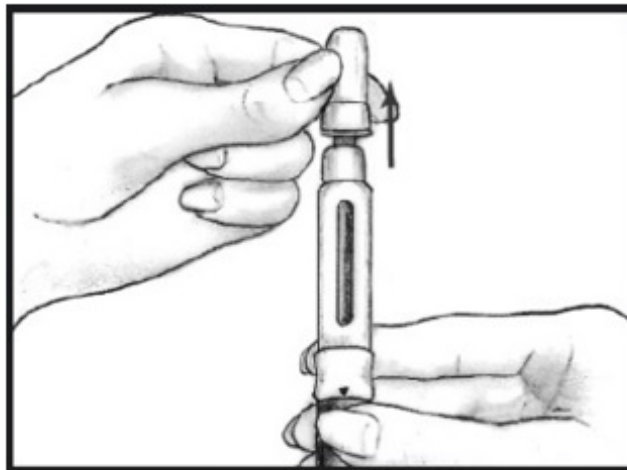


**Figure 12**

- Choose an injection site. Clean the skin at the injection site with an alcohol wipe. Clean about two inches around the injection site where the needle will be inserted. Do not touch the cleaned area of skin.

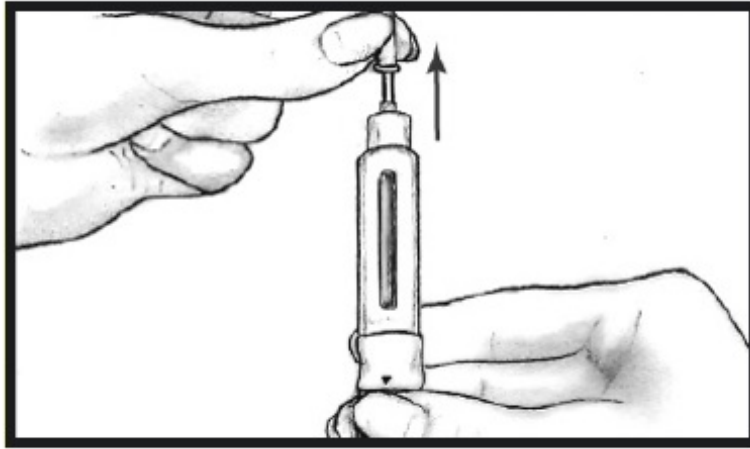
#### **D. Dialing the Dose Before You Give the Injection**

- Your healthcare provider will decide on the dose of FOLLISTIM AQ Cartridge to be given. This dose may be increased or decreased as your treatment progresses depending on your individual type of treatment.
- FOLLISTIM AQ Cartridge using FOLLISTIM Pen can be injected subcutaneously (beneath the skin) in prescribed doses from 50 International Units (IU) up to 450 IU, in marked 25 IU increments. The Dosage Scale on the Pen has numbers and audible clicks to help you set the correct dose.
- Hold the FOLLISTIM Pen and pull off the outer needle shield. Leave the Inner Needle Shield in place over the needle attached to the Pen (See Figure 13). Do not throw away the Outer Needle Shield, you will need it later when you throw away the needle.



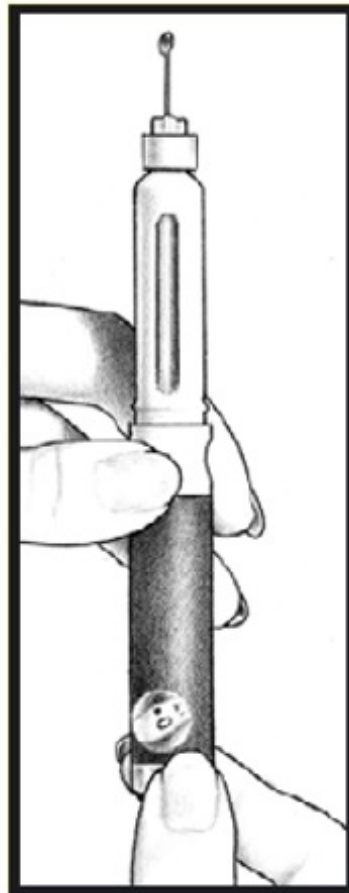
**Figure 13**

- Carefully remove the Inner Needle Shield and throw it away (discard) (See Figure 14). **Do not** touch the needle or let the needle touch any surface while uncapped.



**Figure 14**

- Hold the FOLLISTIM Pen with the needle pointing upwards. Tap the Cartridge Holder gently with your finger to help air bubbles rise to the top of the needle. The small amount of air bubbles will not affect the amount of medicine you receive.
- With an unused cartridge loaded:
  1. Dial the Dosage Knob until you hear 1 click. With the needle pointing upwards, push in the Injection Button.
  2. Look for a droplet of medicine at the tip of the needle (See Figure 15). If you see the droplet, then you can dial in your dose.
  3. If you do **not** see a droplet, repeat number 1 (above) until you see droplet. You must **make sure you see a droplet** of medicine (**check the flow of medicine**) or you may **not** inject the correct dose amount.



**Figure 15**

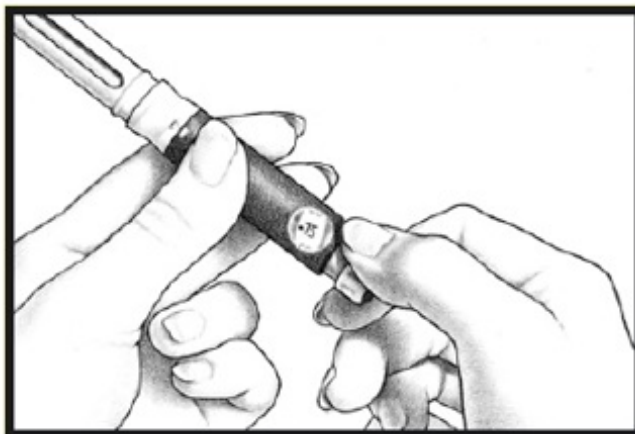
- With a partially used cartridge, to give yourself another dose of medicine you will need to attach a new BD Micro-Fine Pen Needle and look for a droplet forming at the tip of the needle (See Figure 15). If you see a droplet, then you can dial in your dose.

If **no** droplet:

1. Dial the Dosage Knob until you hear one click. With the needle pointing upwards, push in the Injection Button.
  2. Look for a droplet at the tip of the needle. If you see the droplet, then you can dial in your dose.
- Your FOLLISTIM AQ Cartridge should be one of the following:
    - Silver Metal Cap – 300 international units
    - Gold Metal Cap – 600 international units
    - Blue Metal Cap – 900 international units

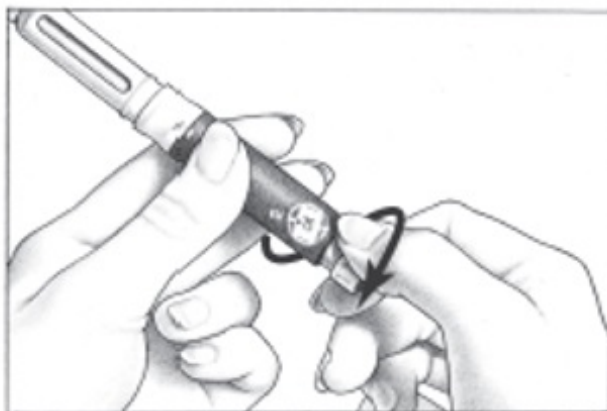
If you do **not** have one of the cartridges above, please contact your healthcare provider.

- For doses of 50 IU up to 450 IU, turn the Dosage Knob until the correct dosage aligns with the dosage markers on each side of the Dosage Window (See Figure 16).



**Figure 16**

- If by mistake you dial past the correct dose number, **do not** try to turn the Dosage Knob backward to fix the mistake. Continue to turn the Dosage Knob in the same direction past the 450 IU mark, as far as it will turn. The Dosage Scale must move freely. Push the Injection Button in all the way (See Figure 17). Start to dial again starting from "0" upwards. By following these directions, you will not lose any medicine from the FOLLISTIM AQ Cartridge (See "Checking the Medicine Level Remaining").

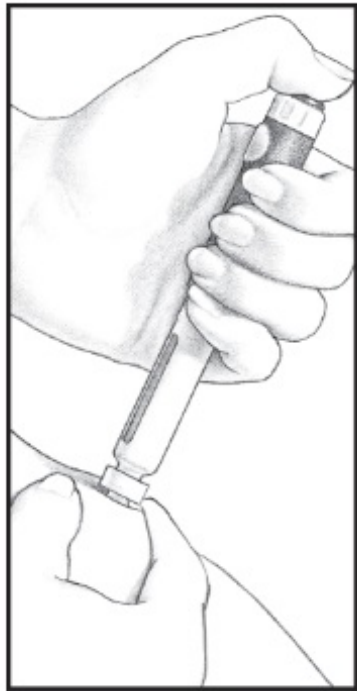


**Figure 17**

- **If you turn the Dosage Knob backward to correct the mistake, it will not damage the FOLLISTIM Pen, but you will lose some medicine from the FOLLISTIM AQ Cartridge.**
- **Never dial your dose or try to correct a dialing mistake when the needle is still in your skin. You may receive an incorrect dose.**
- **If your prescribed dose is more than the deliverable dose of FOLLISTIM Pen or more than the amount remaining in the cartridge, you will need to give yourself more than 1 injection.**

### **E. Giving Yourself an Injection**

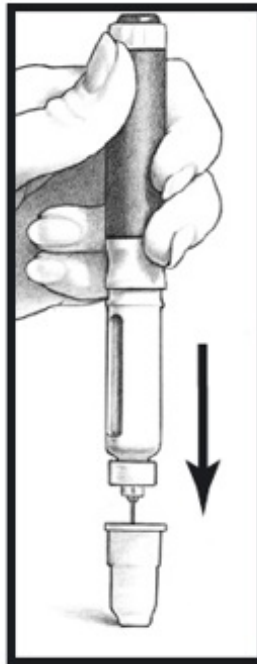
- Pinch a fold of skin at the cleaned injection site with one hand. **Do not** touch the cleaned area of skin.
- With the other hand hold the FOLLISTIM Pen with FOLLISTIM AQ Cartridge loaded and BD Micro-Fine Needle. Use a quick “dart-like” motion to insert the needle straight up and down (90° angle).
- Press the injection button all the way in to make sure you give yourself a full injection (See Figure 18). Wait for 5 seconds before pulling the needle out of the skin. The middle of the Dosage Window should display a dot next to the “0”.



**Figure 18**

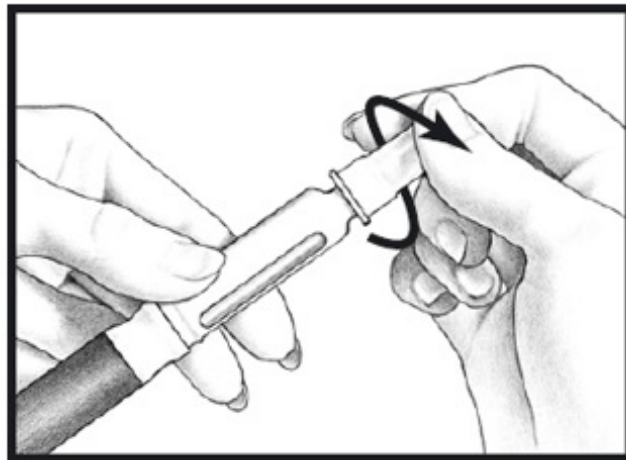
If the injection button does **not** push in all the way, and the number in the Dosage Window does not read "0", it means there is not enough medicine left in the cartridge to complete your prescribed dose. The number in the Dosage Window will give you the amount of medicine needed to complete your dose. Write this number down. This will be the number you dial for the completion of your dose. **Start over** with a new FOLLISTIM AQ Cartridge and a new needle and follow all the instructions up to this step (See "Giving Yourself an Injection"). Make sure you choose a different injection site to complete your prescribed dose of medicine FOLLISTIM AQ Cartridge.

- Remove the BD Micro-Fine Needle from your skin and firmly press down on the injection site with an alcohol swab. Be very careful when handling the needle. If you are giving an injection to another person, accidental needle sticks with used needles can cause serious infections or infections that may lead to death.
- Carefully follow these instructions. Place the Outer Needle Shield on a flat table surface with the opening pointing up. The opening of the Outer Needle Shield is the wider end with the rim. Without holding on to the Outer Needle Shield, carefully insert the needle (attached to the FOLLISTIM Pen) straight into the center of the opening of the Outer Needle Shield and push down firmly (See Figure 19). Be sure the Outer Needle Shield is completely covering the entire needle.



**Figure 19**

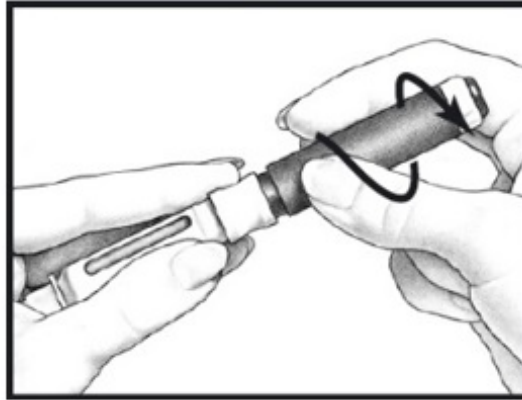
- Grip the Outer Needle Shield carefully and use it to unscrew the needle from the Cartridge Holder (See Figure 20).



**Figure 20**

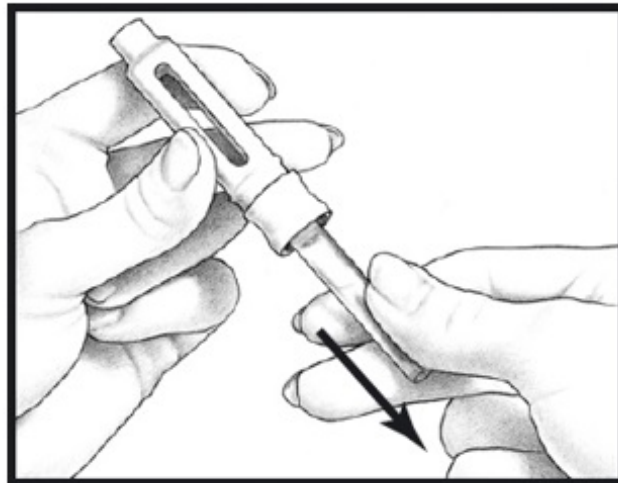
- Throw away the Outer Needle Shield with the used needle right away. Do not throw away in a trash can. (See "How Do I Throw Away Used Cartridges and Needles?")
- If there is medicine left in the FOLLISTIM AQ Cartridge for more injections, put the Pen Cap back on the Pen Body and store your FOLLISTIM Pen in a safe place in the refrigerator (not in the freezer) or at room temperature. Never store the FOLLISTIM Pen with a needle attached to it.
- Unscrew the Pen Body from the Cartridge Holder with the **empty** FOLLISTIM AQ Cartridge (See Figure 21).





**Figure 21**

- Remove the empty FOLLISTIM AQ Cartridge from the Cartridge Holder (See Figure 22). Safely, throw away (dispose of) the empty FOLLISTIM AQ Cartridge right away. **Do not** put the cartridge in your household trash. (See "How Do I Throw Away Used Cartridges and Needles?")



**Figure 22**

## **F. Checking the Medicine Level Remaining**

### **For women and men:**

Have your healthcare provider advise you of the number of prescribed doses that are in the full unused FOLLISTIM AQ Cartridge.

- **Do not** use the cartridge beyond the advised number of doses. Otherwise, there may not be enough medicine for your prescribed dose.

### **For women only:**

- Keep a FOLLISTIM Pen Treatment Diary as follows:
  1. Record the FOLLISTIM AQ Cartridge content on Day 1. This will either be 300, 600 or 900 international units depending on what your healthcare

- provider has prescribed for you.
2. Record the dose you have been prescribed for your injection.
  3. Subtract your Day 1 dose from the FOLLISTIM AQ Cartridge content (300, 600 or 900 international units). (See Figure 23.) This will give you the **remaining** FOLLISTIM AQ Cartridge content after the Day 1 dose is taken.
  4. Place the number determined as the content after Day 1 (See number 3) in the box as the FOLLISTIM AQ Cartridge content **available** for Day 2. (See Figure 23.)
  5. Subtract your Day 2 dose from the FOLLISTIM AQ Cartridge content you recorded in Step 4. This will give you the **remaining** FOLLISTIM AQ Cartridge content after Day 2. Record this number of units. (See Figure 23.)
  6. Repeat the steps to determine the FOLLISTIM AQ Cartridge content **available** and FOLLISTIM AQ Cartridge **remaining** for each day of use.

Day	Date	Dose Prescribed	FOLLISTIM AQ Cartridge Content Available	FOLLISTIM AQ Cartridge Content Remaining
1	month/day/year	150	600	450
2	month/day/year	150	450	300
3	month/day/year	150	300	150
4	month/day/year	150	150	0

**Figure 23. Example of Treatment Diary Starting with a 600 International Unit Cartridge**

If you do not know if there is not enough medicine left in the FOLLISTIM AQ Cartridge for your next prescribed dose, see section "If There is Not Enough FOLLISTIM AQ in the Cartridge".

### **G. If There is Not Enough FOLLISTIM AQ in the Cartridge**

1. If you realize **before** you inject that you do not have enough medicine remaining in your FOLLISTIM AQ Cartridge for your complete dose, follow either Option 1 or Option 2. **Do not** follow both.
  - Option 1:
    - Dial your dose and inject the remaining medicine in the FOLLISTIM AQ Cartridge. The Dosage Knob Injection Button will not push in all the way (do not try to force down the button) and the Dosage Window number will not read "0" but will read the number of units you will need to complete your prescribed dose.
    - Write down the number of units needed to complete your dose.
    - Remove the needle and throw it away (dispose of it) properly (see "How Do I Throw Away Used Cartridges and Needles?").
    - Using the Dosage Knob, reset the Dial Window to "0" by turning the Dosage Knob past the 450 IU mark as far as it will turn and push the Injection Button in all the way.
    - Before you replace a FOLLISTIM AQ Cartridge, be sure that a BD Micro-Fine Pen Needle is not attached to the FOLLISTIM Pen.
    - Insert a new cartridge into the FOLLISTIM Pen and attach a new BD

- Micro-Fine needle.
  - Dial to the number of units you have written down to complete your prescribed dose.
  - Prepare a different injection site and inject the remaining medicine to complete your dose (See "Giving Yourself an Injection").
  - Option 2:
    - Remove the FOLLISTIM AQ Cartridge.
    - **Start over** with a new FOLLISTIM AQ Cartridge and Insert into the FOLLISTIM Pen.
    - Follow the instructions for "Dialing the Dose" and "Giving Yourself an Injection."
2. If you realize **after** you have inserted the needle at the injection site that you do not have enough medicine remaining in your FOLLISTIM AQ Cartridge for your complete dose:
- Inject the remaining content in the FOLLISTIM AQ Cartridge. The Injection Button will not push in all the way and the number in the Dosage Window will not read "0" but will read the number of units you will need to complete your prescribed dose.
  - Wait 5 seconds before removing the needle from your skin and gently apply pressure to the injection site with an alcohol pad.
  - Throw away (dispose of) the used needle (See "How Do I Throw Away Used Cartridges and Needles?").
  - Write down the number of units needed to complete your dose.
  - Using the Dosage Knob, reset the Dial Window to "0" by turning the Dosage Knob past the 450 IU mark as far as it will turn and push the Injection Button in all the way.
  - Insert a new cartridge into the FOLLISTIM Pen and attach a new BD Micro-Fine needle.
  - Dial to the number you have recorded to complete your prescribed dose.
  - Prepare a different injection site and inject the remaining medicine to complete your dose (See "Giving Yourself an Injection").

#### H. How to Solve Problems with FOLLISTIM AQ Cartridge and FOLLISTIM Pen

If you have problems with using the FOLLISTIM AQ Cartridge and the FOLLISTIM Pen, see the following chart. If you still have problems after following the chart or if your problem is not on the chart, contact your healthcare provider.

PROBLEM	POSSIBLE CAUSES	WHAT TO DO
The Pen Body will not screw tightly into the Cartridge Holder.	Is something in the way?	Take out the FOLLISTIM Cartridge and check the Cartridge Holder to see if anything is in the way. Follow the instructions in this pamphlet to Screw the Pen Body fully onto the Cartridge Holder.
		Remove the current needle. Carefully follow instructions (Fig. 19 and Fig. 20) to prevent accidental needle sticks. Tighten the Pen Body to the Cartridge

No medicine is coming out while checking the flow.	The Cartridge Holder and the Pen Body are not properly screwed together.	Holder ensuring the arrow on the Cartridge Holder is pointing to the middle of the yellow alignment mark on the Pen Body. Attach a new needle to the Pen. Recheck the flow as follows: a. Dial the Dosage Knob until you hear one click. With needle pointing upwards, push in the Injection Button. b. Look for a droplet at the tip of the needle.
	Is the FOLLISTIM Cartridge empty?	Change to a new cartridge.
	Has the needle been properly attached to the FOLLISTIM Pen?	Remove needle and replace with a new one, ensuring that the needle is screwed on tightly to the Pen. Recheck the flow as follows: a. Dial the Dosage Knob until you hear one click. With needle pointing upwards, push in the Injection Button. b. Look for a droplet at the tip of the needle.
You are concerned that you can turn the Dosage Knob to the next number without clicking and the Injection Button spins freely.	This is not a problem.	The system is in the reset mode. The Injection Button and Dosage Knob must be pushed all the way down to '0' to re-engage the mechanism and the correct dose can now be set. A click will be heard for each setting in the viewing window.
The Dosage Knob does not go back to '0' while you are injecting.	Is the FOLLISTIM Cartridge empty?	Change to a new cartridge.
	Is the needle blocked?	a. Remove the needle from the skin and dispose of safely. b. Check the Dosage Window and note how much remaining medicine to inject. c. Attach a new needle.  Recheck the flow as follows: a. Dial the Dosage Knob until you hear one click. With needle pointing upwards, push in the Injection Button. b. Look for a droplet at the tip of the needle.

		c. Dial remaining dose.
Some of the medicine is dripping out of the needle when you withdraw it from your skin.	Did you take the needle out of your skin before waiting 5 seconds as directed in Step 15?	If this happens you should inform your doctor. To avoid this problem again, you should always wait 5 seconds after you push the Injection Button before you withdraw the needle from your skin.
The needle is left on the FOLLISTIM Pen.	Have you missed any of the instructions?	Dispose of the needle in a properly secured container as instructed by your doctor. Carefully follow instructions (Fig. 19 and Fig. 20) to prevent accidental needle sticks. Change to a new FOLLISTIM Cartridge and a new needle.
After your last injection, a remaining volume may be left in the cartridge in addition to the normal quantity of medicine dispensed.	The cartridge contains extra volume for checking the medicine flow.	This is not a problem.
You cannot get the cartridge out of the FOLLISTIM Pen.	Is the needle attached?	Remove the needle from the FOLLISTIM Pen and dispose of properly. (Unscrew the Cartridge Holder from the Pen Body and take out the cartridge.)
You are not sure how much medicine is left in the cartridge, and you do not want to start an injection and then find out that there is not enough medicine.	Have you kept good records of your doses?	In case of any doubt, you should load a new, unused FOLLISTIM Cartridge into the FOLLISTIM Pen. See " <b>If There is Not Enough FOLLISTIM AQ in the Cartridge.</b> " To avoid this problem again, you should record your injections. (Women should use a treatment diary.)

Important: If you have a question, always mention the Lot number of your FOLLISTIM Pen as printed on the Pen Body. If you have a complaint, please do not discard any product or packaging.

For questions on information contained in this leaflet, call 1-844-674-3200.

**www.follistim.com**

### **How Do I Throw Away Used Cartridges and Needles?**

- Put **your used cartridges and needles in** an FDA-cleared sharps disposal container right away after use.  
**Do not** throw away (dispose of) loose needles and cartridges in your household

trash.

- If you do not have an FDA-cleared sharps container, you may use a household container that is:
  - made of heavy-duty plastic,
  - can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,
  - upright and stable during use,
  - leak resistant, and
  - properly labeled to warn of hazardous waste inside the container.
- When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used cartridges and needles. For more information about safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to the FDA's website at: <http://www.fda.gov/safesharpsdisposal>.  
**Do not** dispose of your used sharps disposal container in your household trash unless your community guidelines permit this. **Do not** recycle your used sharps disposal container.

### **How Do I Care for the FOLLISTIM Pen?**

1. Clean all exposed parts of the FOLLISTIM Pen with a clean, damp cloth such as a paper towel. Never wash it in water, detergent, or strong medical cleaners.
2. Handle the FOLLISTIM Pen carefully to avoid causing damage. You could damage the FOLLISTIM Pen by dropping it or handling it roughly.
3. Keep the FOLLISTIM Pen away from dust and dirt.
4. Never store the FOLLISTIM Pen with a needle attached to it. If you store the FOLLISTIM Pen with the needle attached, the medicine could leak out and there is risk of contamination.
5. If the FOLLISTIM Pen breaks or is damaged, do not try to fix it yourself. Contact your healthcare provider.
6. Do not share your FOLLISTIM Pen with another person.

### **Keep FOLLISTIM Pen, FOLLISTIM AQ Cartridge, any other supplies and all medicines out of the reach of children.**

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Jersey City, NJ 07302, USA  
U.S. License No. 2331

BD, BD Logo, and BD Micro-Fine are trademarks of Becton, Dickinson and Company.

For patent information: [www.organon.com/our-solutions/patent/](http://www.organon.com/our-solutions/patent/)

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This Instructions for Use was approved by the U.S. Food and Drug  
Administration  
February 2024

Revised:

usppi-og8328-SOi-2402r001

**PRINCIPAL DISPLAY PANEL - 300 IU Kit Carton**

**NDC 78206-129-01**

**Rx only**

**Follistim® AQ Cartridge 300 IU**  
(follitropin beta) injection

**For use only with Follistim Pen® ,  
available separately**

**For Subcutaneous Use  
For Single Patient Use Only**

**Contents:**

**1 Sterile Prefilled Cartridge containing 0.36 mL Follistim®  
5 BD Micro-Fine™ Pen Needles**

**Dispense with Full Prescribing Information**

Each cartridge delivers 300 International Units in 0.36 mL and the inactive ingredients: benzyl alcohol (3.6 mg; preservative), methionine (0.18 mg), polysorbate 20 (0.072 mg), sodium citrate (4.64 mg), sucrose (18 mg), and Water for Injection USP. Hydrochloric acid NF and/or sodium hydroxide NF are used to adjust the pH to 7.

**Pharmacy Storage:** Refrigerate at 2°C to 8°C (36°F to 46°F).

**Patient Storage:** Refrigerate at 2°C to 8°C (36°F to 46°F) until expiration date or room temperature at up to 25°C (77°F) for up to 3 months in the original carton to protect from light. Do not freeze.

**Dosage:** See prescribing information.

For more information, call 1-844-674-3200 or visit [www.follistim.com](http://www.follistim.com)  
Package not child resistant. Keep out of the reach of children.

Manufactured by: Organon USA LLC, a subsidiary of  
ORGANON & Co.,  
Jersey City, NJ 07302, USA  
U.S. License No. 2331

recFSH (active ingred.) Made in The Netherlands. Formulated in Germany.  
Pen needles made in Ireland.  
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Tamper Evident Seal placed here.

Tamper Evident Seal placed here.

**Follistim<sup>®</sup> AQ Cartridge 300 IU**  
(follitropin beta) injection Rx only

NDC 78206-129-01

Rx only

**Follistim<sup>®</sup> AQ Cartridge 300 IU**  
(follitropin beta) injection

**For use only with Follistim Pen<sup>®</sup>,  
available separately**

**For Subcutaneous Use  
For Single Patient Use Only**

**Contents:**  
1 Sterile Prefilled Cartridge containing 0.36 mL Follistim<sup>®</sup>  
5 BD Micro-Fine™ Pen Needles

**Dispense with Full Prescribing Information**

**Follistim<sup>®</sup> AQ Cartridge 300 IU**  
(follitropin beta) injection



Lot: ANNNNNN  
Expiry: YYYYMMDD

6 TIN : ( 01 ) 00378206129017

Encoding area:  
Space reserved for 2D Serialization Barcode,  
Serial Number, Expiry and Lot



7007712901



**PRINCIPAL DISPLAY PANEL - 600 IU Kit Carton**

**NDC 78206-130-01**

**Rx only**

**Follistim<sup>®</sup> AQ Cartridge 600 IU**  
(follitropin beta) injection

**For use only with Follistim Pen<sup>®</sup>,  
available separately**

**For Subcutaneous Use  
For Single Patient Use Only**

**Contents:**

**1 Sterile Prefilled Cartridge containing 0.72 mL Follistim<sup>®</sup>  
7 BD Micro-Fine<sup>™</sup> Pen Needles**

**Dispense with Full Prescribing Information**

Each cartridge delivers 600 International Units in 0.72 mL and the inactive ingredients: benzyl alcohol (7.2 mg; preservative), methionine (0.36 mg), polysorbate 20 (0.144 mg), sodium citrate (9.3 mg), sucrose (36 mg), and Water for Injection USP. Hydrochloric acid NF and/or sodium hydroxide NF are used to adjust the pH to 7.

**Pharmacy Storage:** Refrigerate at 2°C to 8°C (36°F to 46°F).

**Patient Storage:** Refrigerate at 2°C to 8°C (36°F to 46°F) until expiration date or room temperature at up to 25°C (77°F) for up to 3 months in the original carton to protect from light. Do not freeze.

**Dosage:** See prescribing information.

For more information, call 1-844-674-3200 or visit [www.follistim.com](http://www.follistim.com)  
Package not child resistant. Keep out of the reach of children.

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U.S. License No. 2331

recFSH (active ingred.) Made in The Netherlands. Formulated in Germany.  
Pen needles made in Ireland.

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**Follistim<sup>®</sup> AQ Cartridge 600 IU**  
(follitropin beta) injection

Rx only

NDC 78206-130-01

Rx only

**Follistim<sup>®</sup> AQ Cartridge 600 IU**  
(follitropin beta) injection

**For use only with Follistim Pen<sup>®</sup>,  
available separately**

**For Subcutaneous Use  
For Single Patient Use Only**

**Contents:**  
1 Sterile Prefilled Cartridge containing 0.72 mL Follistim<sup>®</sup>  
7 BD Micro-Fine™ Pen Needles

**Dispense with Full Prescribing Information**

GTIN : ( 01 ) 003782061 30013



7007713101

**Follistim<sup>®</sup> AQ Cartridge 600 IU**  
(follitropin beta) injection



Lot: ANNNNNN  
Expiry: YYYMMDD

Encoding area:  
Space reserved for 2D Serialization Barcode,  
Serial Number, Expiry and Lot

**PRINCIPAL DISPLAY PANEL - 900 IU Kit Carton**

**NDC 78206-131-01**

**Rx only**

**Follistim<sup>®</sup> AQ Cartridge 900 IU**  
(follitropin beta) injection

**For use only with Follistim Pen<sup>®</sup>,  
available separately**

**For Subcutaneous Use  
For Single Patient Use Only**

**Contents:**

**1 Sterile Prefilled Cartridge containing 1.08 mL Follistim<sup>®</sup>  
10 BD Micro-Fine<sup>™</sup> Pen Needles**

**Dispense with Full Prescribing Information**

Each cartridge delivers 900 International Units in 1.08 mL and the inactive ingredients: benzyl alcohol (10.8 mg; preservative), methionine (0.54 mg), polysorbate 20 (0.216 mg), sodium citrate (13.9 mg), sucrose (54 mg), and Water for Injection USP. Hydrochloric acid NF and/or sodium hydroxide NF are used to adjust the pH to 7.

**Pharmacy Storage:** Refrigerate at 2°C to 8°C (36°F to 46°F).

**Patient Storage:** Refrigerate at 2°C to 8°C (36°F to 46°F) until expiration date or room temperature at up to 25°C (77°F) for up to 3 months in the original carton to protect from light. Do not freeze.

**Dosage:** See prescribing information.

For more information, call 1-844-674-3200 or visit [www.follistim.com](http://www.follistim.com)  
Package not child resistant. Keep out of the reach of children.

Manufactured by: Organon USA LLC, a subsidiary of  
ORGANON & Co.,  
Jersey City, NJ 07302, USA  
U.S. License No. 2331

recFSH (active ingred.) Made in The Netherlands. Formulated in Germany.  
Pen needles made in Ireland.  
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Tamper Evident Seal placed here.

Tamper Evident Seal placed here.

**Follistim<sup>®</sup> AQ Cartridge 900 IU**  
(follitropin beta) injection

Rx only

NDC 78206-131-01

Rx only

**Follistim<sup>®</sup> AQ Cartridge 900 IU**  
(follitropin beta) injection

**For use only with Follistim Pen<sup>®</sup>,  
available separately**

**For Subcutaneous Use  
For Single Patient Use Only**

**Contents:**  
1 Sterile Prefilled Cartridge containing 1.08 mL Follistim<sup>®</sup>  
10 BD Micro-Fine™ Pen Needles

**Dispense with Full Prescribing Information**

**Follistim<sup>®</sup> AQ Cartridge 900 IU**  
(follitropin beta) injection



Lot: ANNNNNN  
Expiry: YYYYMMDD

GTIN: (01)000378206131010

Encoding area:  
Space reserved for 2D Serialization Barcode,  
Serial Number, Expiry and Lot

700713201



# FOLLISTIM AQ

follitropin injection, solution

## Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:78206-129
<b>Route of Administration</b>	SUBCUTANEOUS		

## Active Ingredient/Active Moiety

<b>Ingredient Name</b>	<b>Basis of Strength</b>	<b>Strength</b>
<b>follitropin</b> (UNII: 076WHW89TW) (follitropin - UNII:076WHW89TW)	follitropin	300 [iU] in 0.36 mL

## Inactive Ingredients

<b>Ingredient Name</b>	<b>Strength</b>
<b>benzyl alcohol</b> (UNII: LKG8494WBH)	3.6 mg in 0.36 mL
<b>methionine</b> (UNII: AE28F7PNPL)	0.18 mg in 0.36 mL
<b>polysorbate 20</b> (UNII: 7T1F30V5YH)	0.072 mg in 0.36 mL
<b>trisodium citrate dihydrate</b> (UNII: B22547B95K)	4.64 mg in 0.36 mL
<b>sucrose</b> (UNII: C151H8M554)	18 mg in 0.36 mL
<b>water</b> (UNII: 059QF0KOOR)	
<b>hydrochloric acid</b> (UNII: QTT17582CB)	
<b>sodium hydroxide</b> (UNII: 55X04QC32I)	

## Packaging

<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
1	NDC:78206-129-01	1 in 1 CARTON	07/24/2023	
1		1 in 1 KIT		
1	NDC:78206-129-99	0.36 mL in 1 CARTRIDGE; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		
2	NDC:78206-129-59	1 in 1 CARTON	07/24/2023	
2		1 in 1 KIT		
2	NDC:78206-129-58	0.36 mL in 1 CARTRIDGE; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

## Marketing Information

<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
BLA	BLA021211	07/24/2023	

FOLLISTIM AQ

follitropin injection, solution

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:78206-130
<b>Route of Administration</b>	SUBCUTANEOUS		

### Active Ingredient/Active Moiety

<b>Ingredient Name</b>	<b>Basis of Strength</b>	<b>Strength</b>
<b>follitropin</b> (UNII: 076WHW89TW) (follitropin - UNII:076WHW89TW)	follitropin	600 [iU] in 0.72 mL

### Inactive Ingredients

<b>Ingredient Name</b>	<b>Strength</b>
<b>benzyl alcohol</b> (UNII: LKG8494WBH)	7.2 mg in 0.72 mL
<b>methionine</b> (UNII: AE28F7PNPL)	0.36 mg in 0.72 mL
<b>polysorbate 20</b> (UNII: 7T1F30V5YH)	0.144 mg in 0.72 mL
<b>trisodium citrate dihydrate</b> (UNII: B22547B95K)	9.3 mg in 0.72 mL
<b>sucrose</b> (UNII: C151H8M554)	36 mg in 0.72 mL
<b>water</b> (UNII: 059QF0K00R)	
<b>hydrochloric acid</b> (UNII: QTT17582CB)	
<b>sodium hydroxide</b> (UNII: 55X04QC32I)	

### Packaging

<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
1	NDC:78206-130-01	1 in 1 CARTON	07/24/2023	
1		1 in 1 KIT		
1	NDC:78206-130-99	0.72 mL in 1 CARTRIDGE; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		
2	NDC:78206-130-59	1 in 1 CARTON	07/24/2023	
2		1 in 1 KIT		
2	NDC:78206-130-58	0.72 mL in 1 CARTRIDGE; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

### Marketing Information

<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
BLA	BLA021211	07/24/2023	

## FOLLISTIM AQ

follitropin injection, solution

**Product Information**

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:78206-131
<b>Route of Administration</b>	SUBCUTANEOUS		

**Active Ingredient/Active Moiety**

<b>Ingredient Name</b>	<b>Basis of Strength</b>	<b>Strength</b>
<b>follitropin</b> (UNII: 076WHW89TW) (follitropin - UNII:076WHW89TW)	follitropin	900 [iU] in 1.08 mL

**Inactive Ingredients**

<b>Ingredient Name</b>	<b>Strength</b>
<b>benzyl alcohol</b> (UNII: LKG8494WBH)	10.8 mg in 1.08 mL
<b>methionine</b> (UNII: AE28F7PNPL)	0.54 mg in 1.08 mL
<b>polysorbate 20</b> (UNII: 7T1F30V5YH)	0.216 mg in 1.08 mL
<b>trisodium citrate dihydrate</b> (UNII: B22547B95K)	13.9 mg in 1.08 mL
<b>sucrose</b> (UNII: C151H8M554)	54 mg in 1.08 mL
<b>water</b> (UNII: 059QF0K00R)	
<b>hydrochloric acid</b> (UNII: QTT17582CB)	
<b>sodium hydroxide</b> (UNII: 55X04QC32I)	

**Packaging**

<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
1	NDC:78206-131-01	1 in 1 CARTON	07/24/2023	
1		1 in 1 KIT		
1	NDC:78206-131-99	1.08 mL in 1 CARTRIDGE; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)		

**Marketing Information**

<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
BLA	BLA021211	07/24/2023	

**Labeler** - Organon LLC (117494753)

Revised: 2/2024

Organon LLC