## Instructions for injection

## These step-by-step instructions will explain how to **prepare**, **mix**, and **inject SOMAVERT**

If you have questions, call your healthcare professional.

A healthcare professional should teach you how to mix and inject SOMAVERT.

A different site should be used each day for SOMAVERT injections. This can help to prevent skin problems such as lumpiness or soreness.

## INDICATION

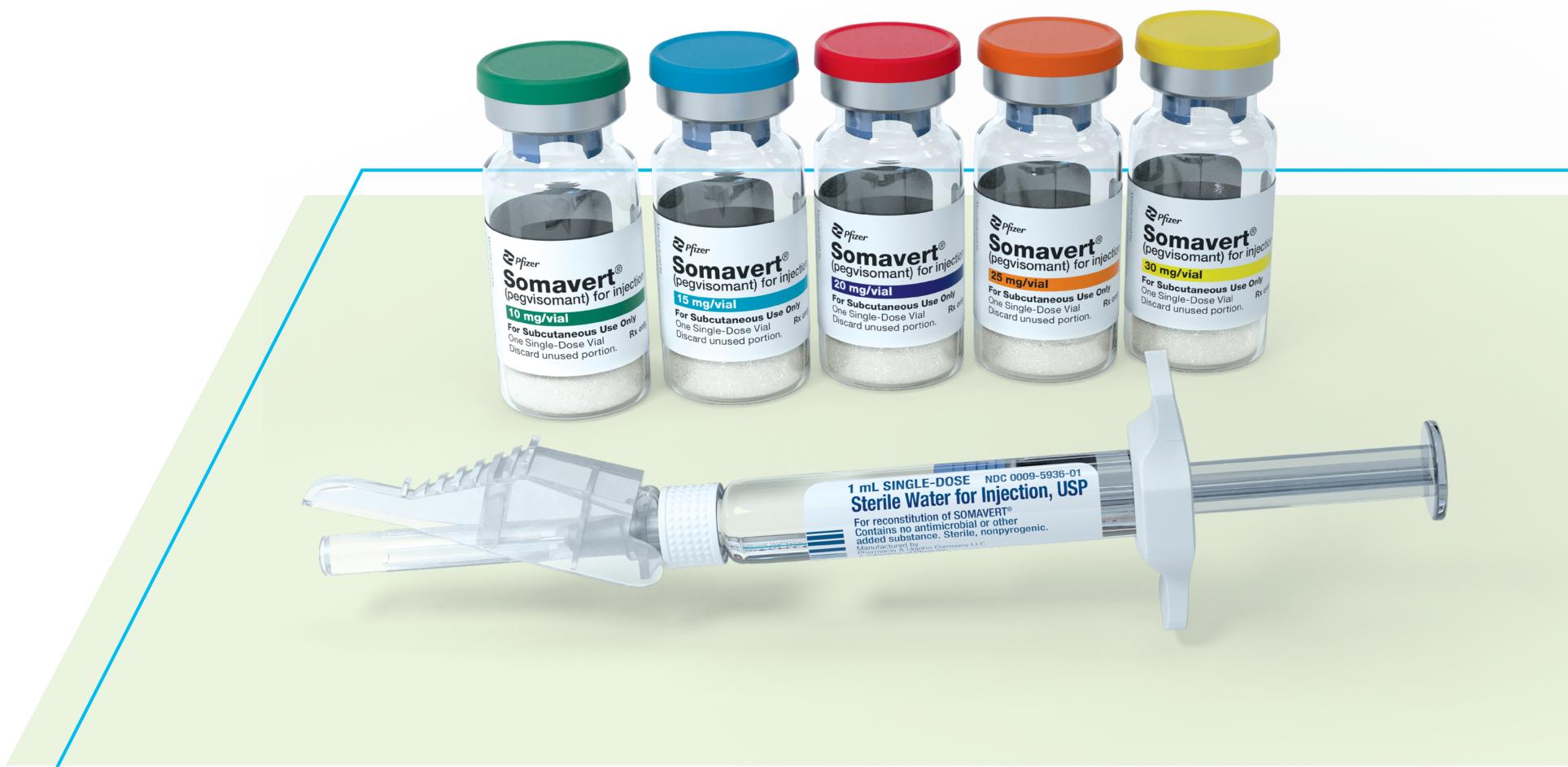
SOMAVERT is a prescription medicine for acromegaly. It is for patients whose disease has not been controlled by surgery or radiation, or patients for whom these options are not appropriate. The goal of treatment with SOMAVERT is to have a normal IGF-1 level in the blood.

## **SELECTED SAFETY INFORMATION**

Do not use SOMAVERT® (pegvisomant for injection) if you are allergic to SOMAVERT or anything that is in it.

Please see full Important Safety Information and full Prescribing Information via menu below.



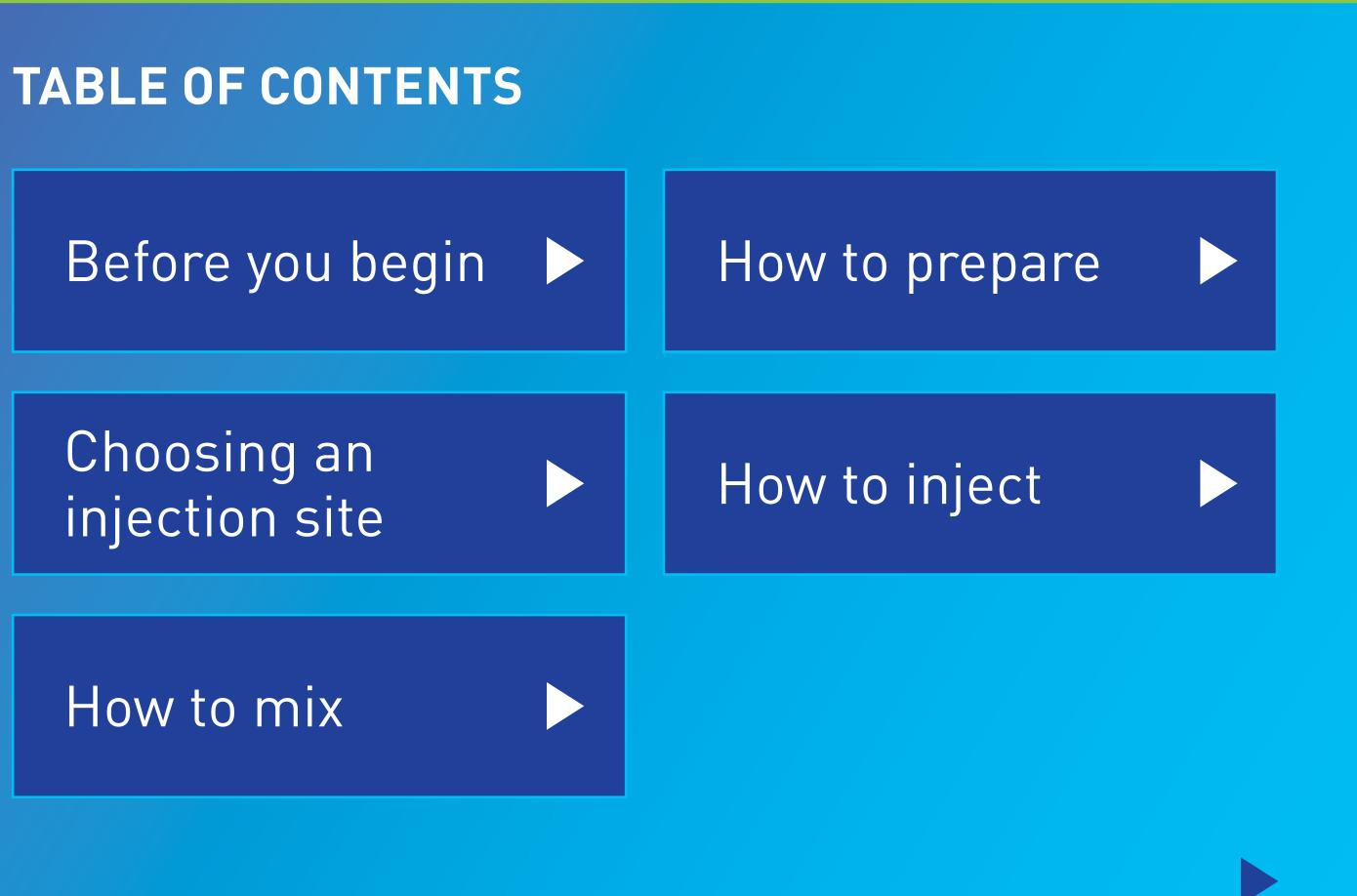


IMPORTANT SAFETY INFORMATION

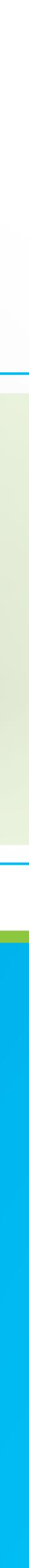
PRESCRIBING INFORMATION

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START





# How to prepare SOMAVERT with prefilled diluent syringe

SOMAVERT can be stored under refrigeration or at room temperature up to 77°F (25°C) for a single period of up to 30 days. Do not freeze SOMAVERT. The prefilled syringe(s) may be stored at a temperature up to 86°F (30°C) until the expiration date printed on the carton, at which point they should be discarded.

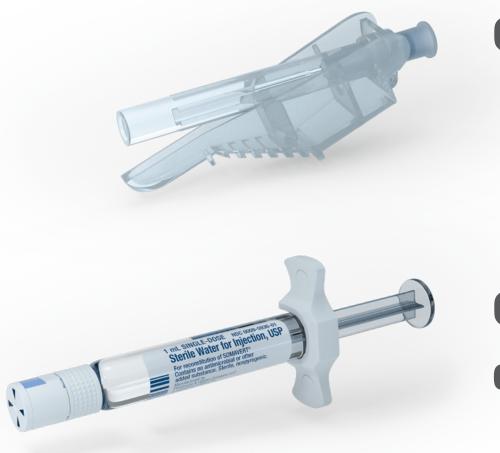
If refrigerated, take 1 SOMAVERT package or vial out of the refrigerator about 10 minutes before you plan to inject yourself. Let it stand at room temperature to warm.

Wash hands with soap and water and dry them.

Gather the following items:



One vial of SOMAVERT (powder)





## **One safety needle**

## One 1-mL prefilled diluent syringe

## You will also need:

- 1 alcohol or antiseptic swab
- 1 small, clean, dry cotton pad
- A proper disposal container for used needles (a "sharps" container)
- A clean, flat surface to work on

## Do not use the syringe or vial if:

- They are damaged or faulty
- The expiration date has passed
- It has been frozen, even if it has now thawed (syringe only)

## SELECTED SAFETY INFORMATION

Be sure to tell your doctor if you use narcotic painkillers (opioid medicines) because the dose of SOMAVERT may need to be changed.

Please see full Important Safety Information and full Prescribing Information via menu below.

### **CHOOSING AN INJECTION SITE**



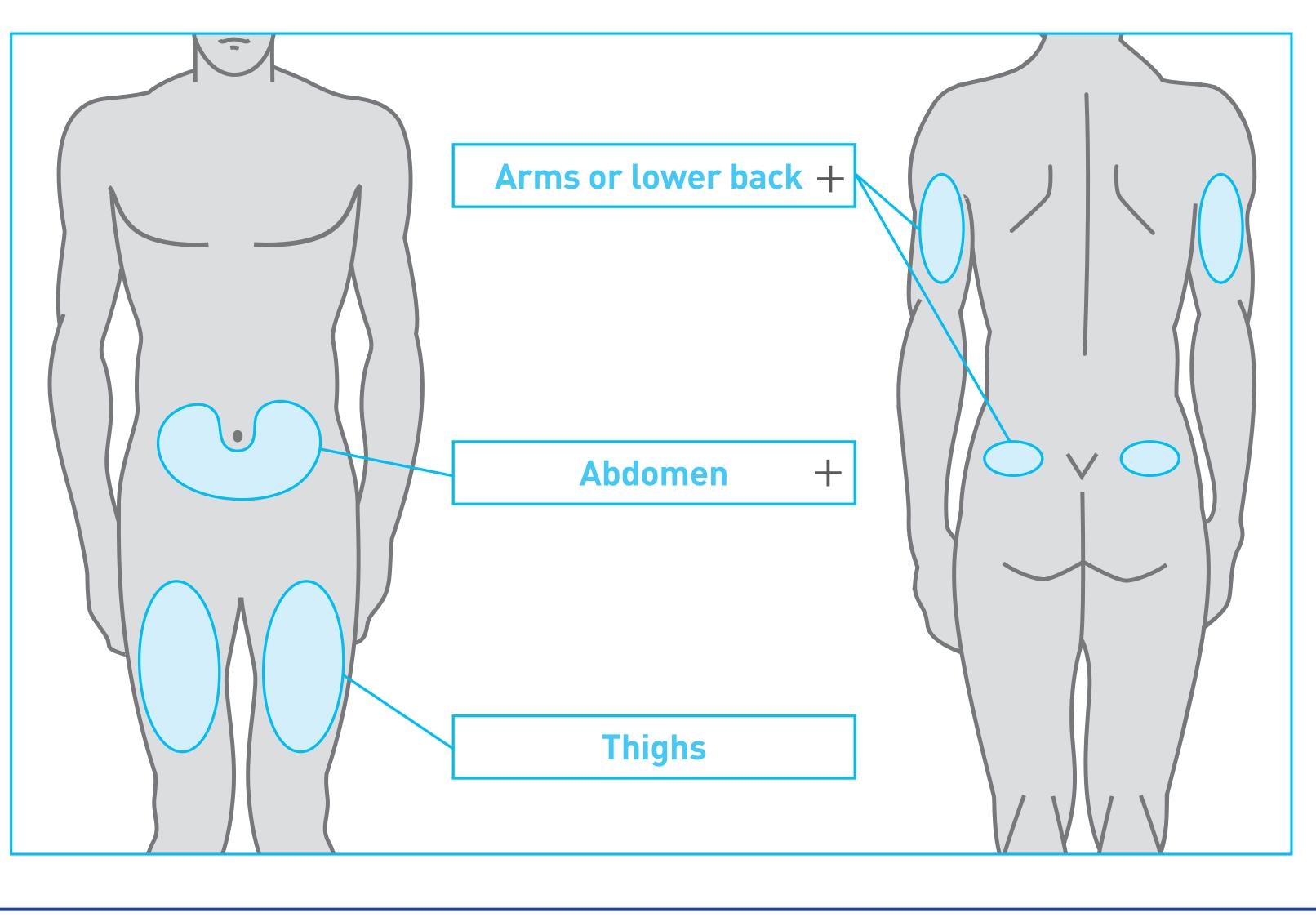
## Choosing an injection site

There are 2 ways to choose where to inject yourself Clean the injection site with an alcohol swab. Let your skin dry before injecting.

**Choose a different body area each day** (for example, right arm, left arm, right abdomen, left abdomen, etc). The drawing below shows the body parts you can choose.

Use the same body area, but choose a different spot within the area each day. Spots are shown as small boxes on the drawing. Each spot must be at least 1 inch away from where you injected yourself the day before. Keep a record of each day's injection site.

## Avoid bony areas or areas that are bruised, red, sore or hard, or areas that have scars or skin conditions.



## Choosing an injection site



## OR

IMPORTANT SAFETY INFORMATION	PRESCRIBING INFORMATION	DOWNLOAD PRINTABLE PDF

## **SELECTED SAFETY** INFORMATION

Blood sugar levels may go down when taking SOMAVERT. Be sure to tell your doctor if you use insulin or other medicines (oral hypoglycemic medicines) for diabetes. The dose of these medicines may need to be reduced when you use SOMAVERT.



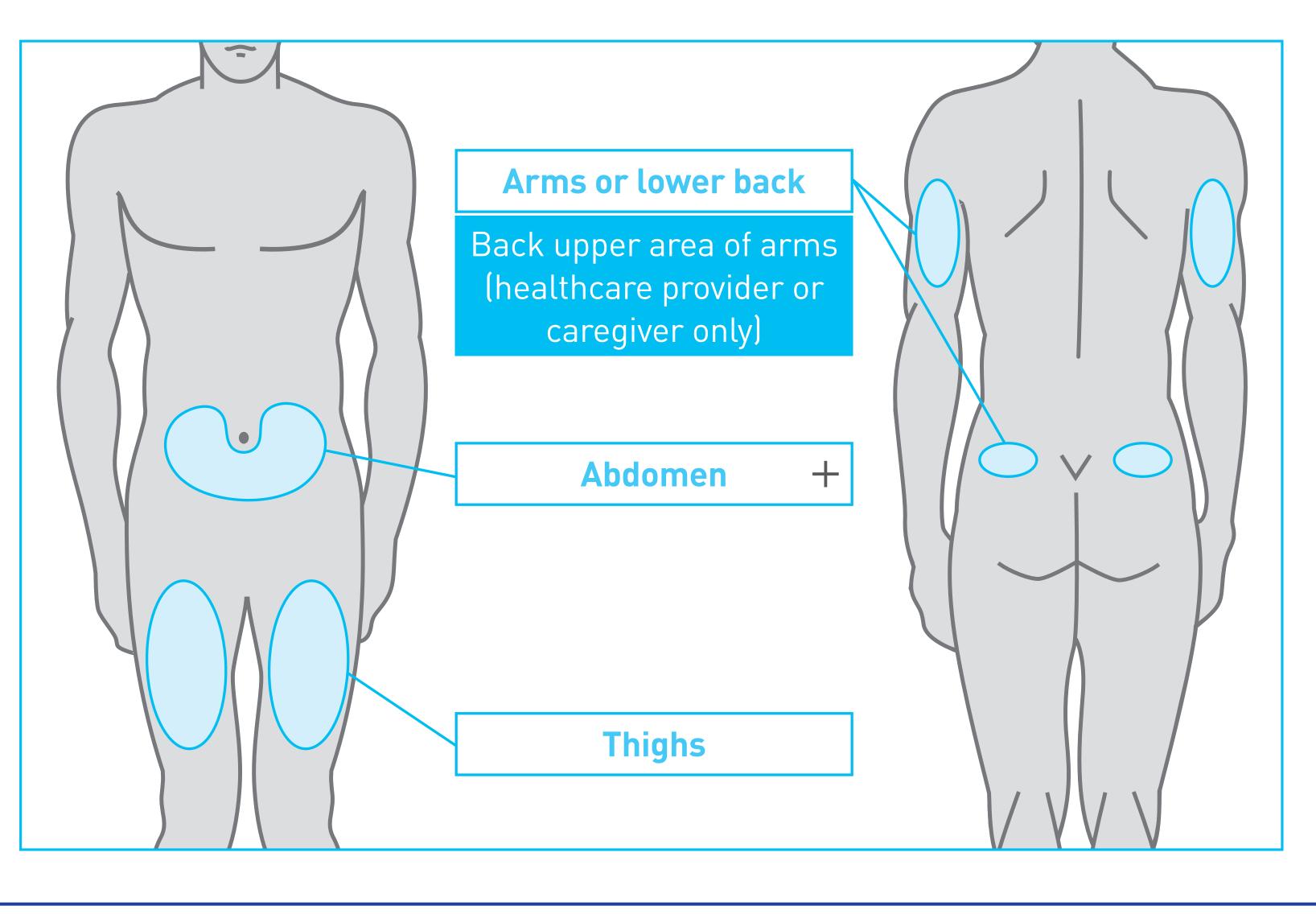
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## Avoid bony areas or areas that are bruised, red, sore or hard, or areas that have scars or skin conditions.



## Choosing an injection site



## OR

PORTANT SAFETY	PRESCRIBING
INFORMATION	INFORMATION

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## **SELECTED SAFETY** INFORMATION

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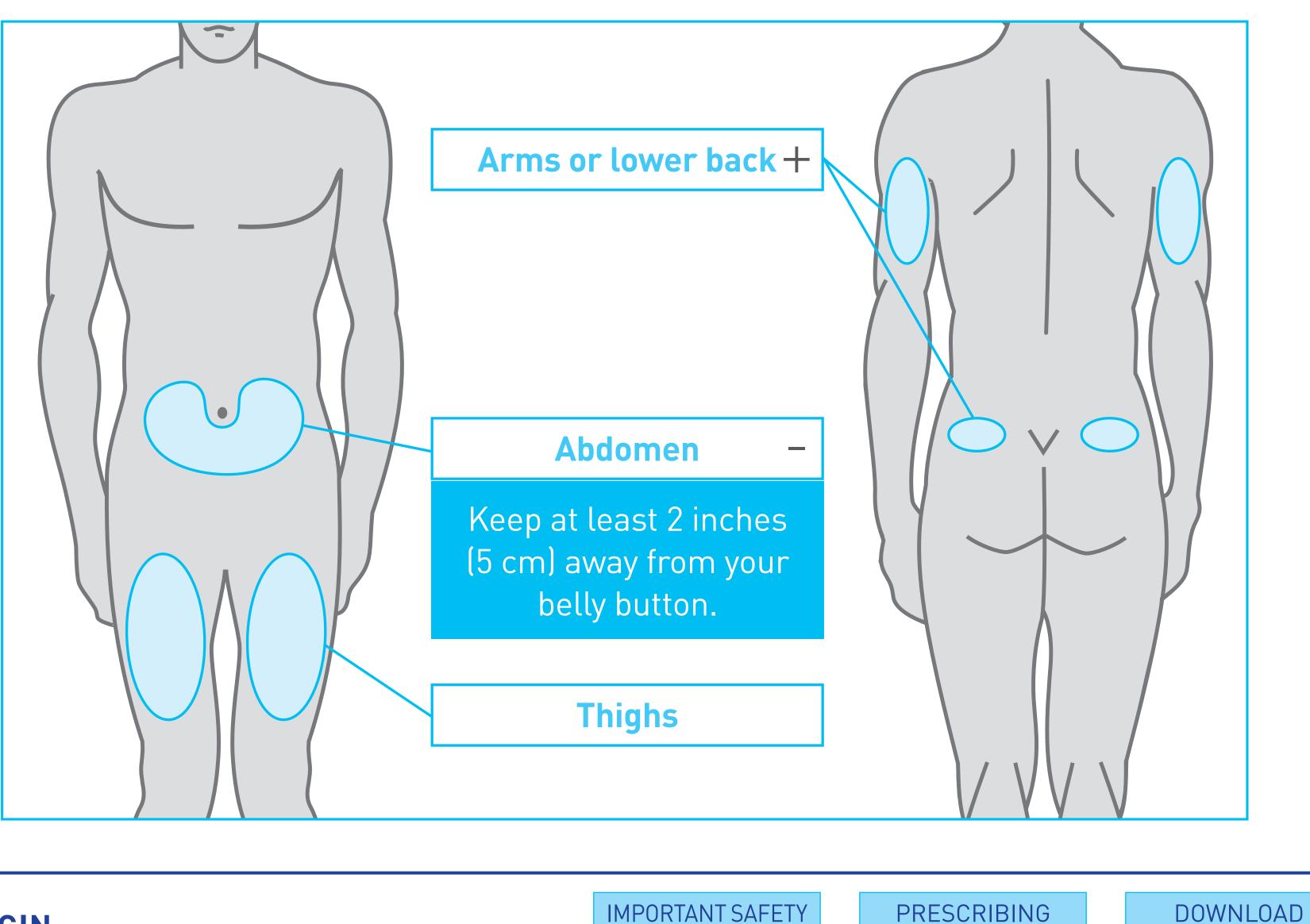
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Use the same body area, but choose a different spot within the area each day. Spots are shown as small boxes on the drawing. Each spot must be at least 1 inch away from where you injected yourself the day before. Keep a record of each day's injection site.

## Avoid bony areas or areas that are bruised, red, sore or hard, or areas that have scars or skin conditions.



INFORMATION

INFORMATION

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## Choosing an injection site



## OR

## **SELECTED SAFETY** INFORMATION

Blood sugar levels may go down when taking SOMAVERT. Be sure to tell your doctor if you use insulin or other medicines (oral hypoglycemic medicines) for diabetes. The dose of these medicines may need to be reduced when you use SOMAVERT.

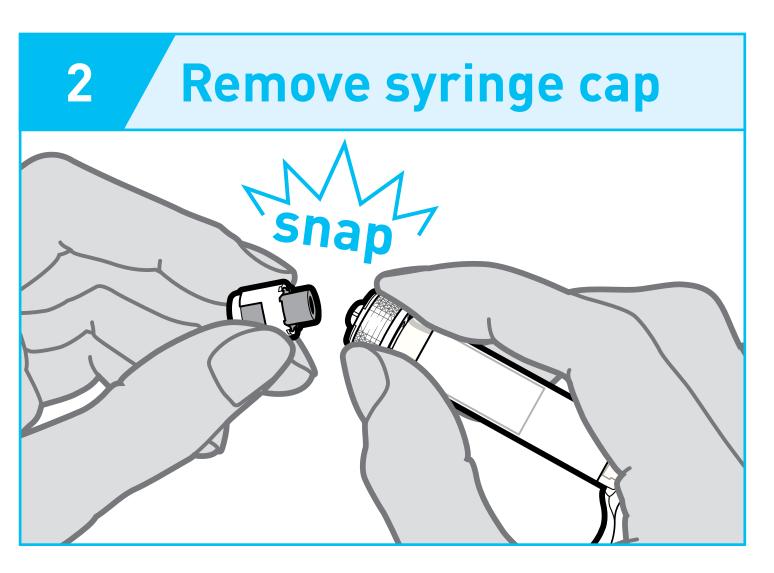


## How to mix—Steps 1-3



Remove the cap from the vial. Throw the cap away; it is not needed again.

**Caution:** Do not let anything touch the vial stopper.

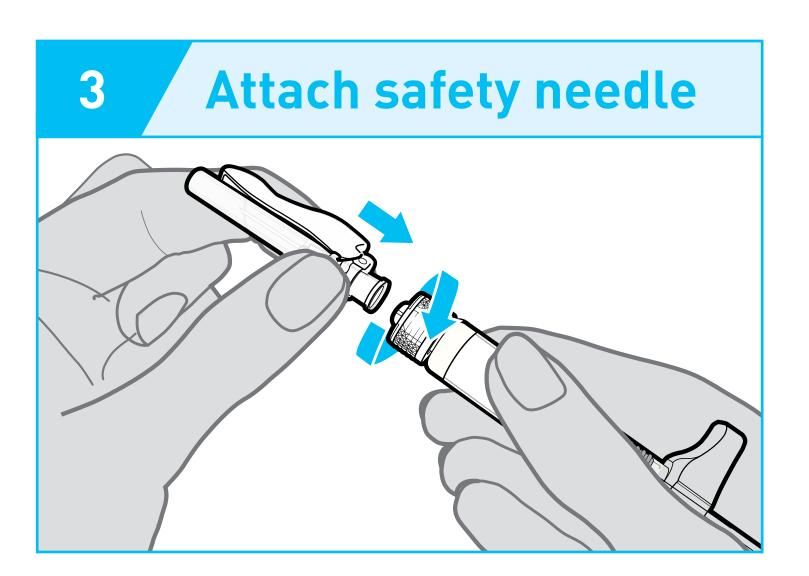


Snap off the syringe cap leaving the syringe collar in place. It may take more effort to snap off than you might expect. Throw the syringe cap away; it is not needed again. Keep the syringe upright to avoid leakage.

Caution: Do not let the end of the syringe touch anything when the syringe cap is off.

# Choosing an injection site





Push down and twist the safety needle firmly onto the syringe as far as it will go. How to mix:

Steps 1-3

Steps 4-6

Steps 7-8

## SELECTED SAFETY INFORMATION

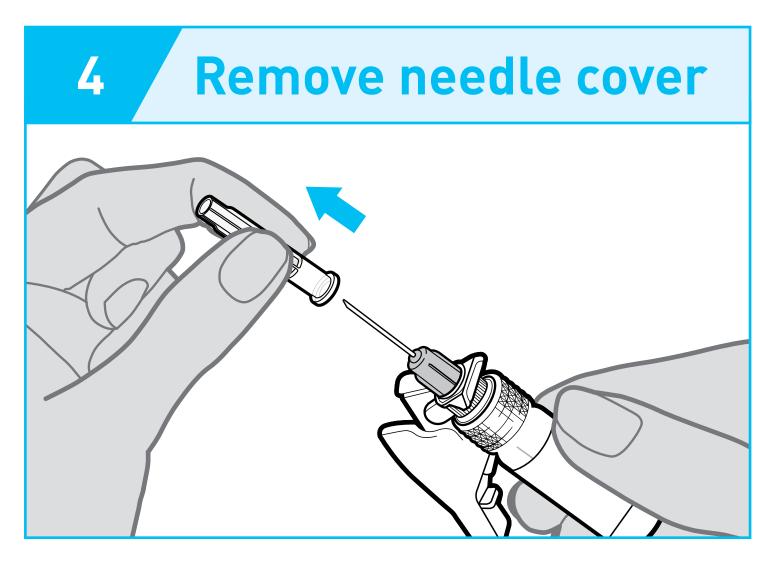
Some people who have used SOMAVERT have developed liver problems. These problems generally disappeared when those people stopped taking SOMAVERT.

Please see full Important Safety Information and full Prescribing Information via menu below.

HOW TO MIX—Steps 4-6

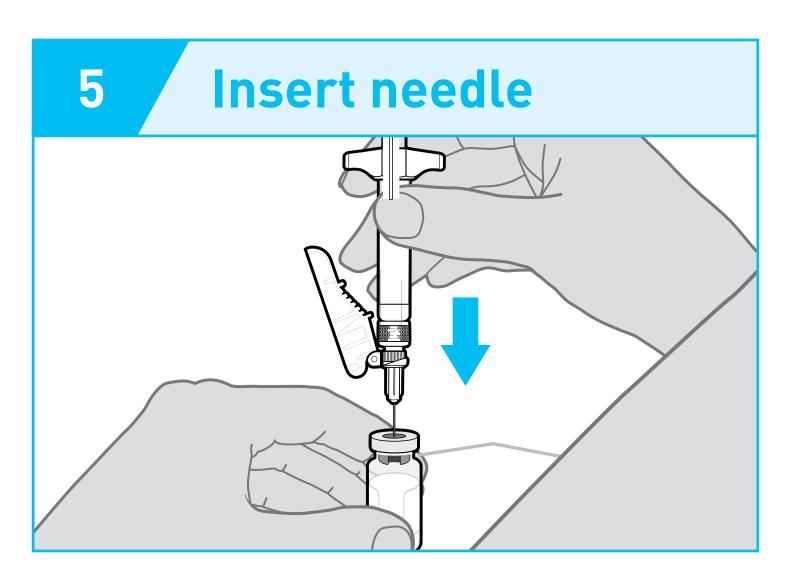


## How to mix—Steps 4-6



Fold the needle guard out of the way of the needle cover. Carefully pull the needle cover straight off. Throw the needle cover away; it is not needed again.

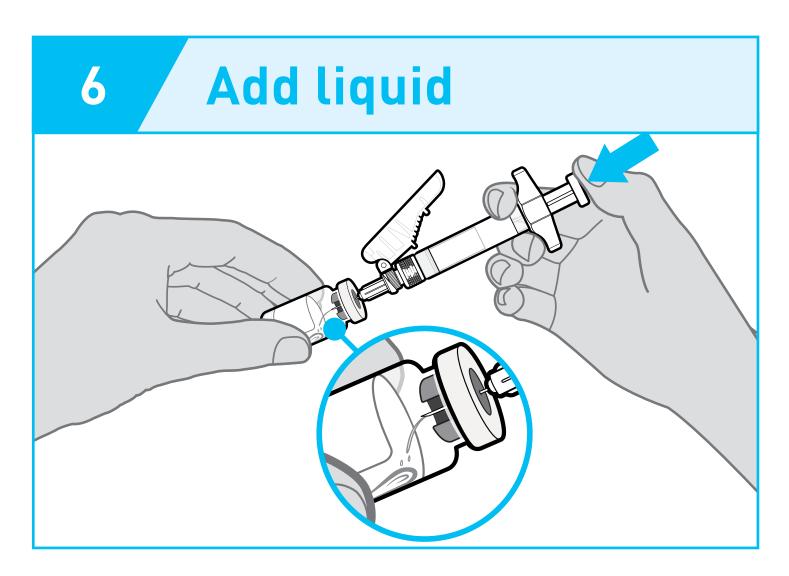
**Caution:** Do not let the needle touch anything.



## Choosing an injection site



Push the needle through the center of the vial stopper, as shown. Support the syringe while the needle is in the vial stopper to prevent bending the needle.



Tilt both the vial and syringe at an angle, as shown. Push the plunger rod down slowly until all the liquid has emptied into the vial.

**Caution:** Do not squirt the liquid directly onto the powder, as this creates foam. Foam makes the medicine unusable. Do not withdraw the needle yet.

PRESCRIBING INFORMATION How to mix:

Steps 1-3

Steps 4-6

Steps 7-8

## **SELECTED SAFETY** INFORMATION

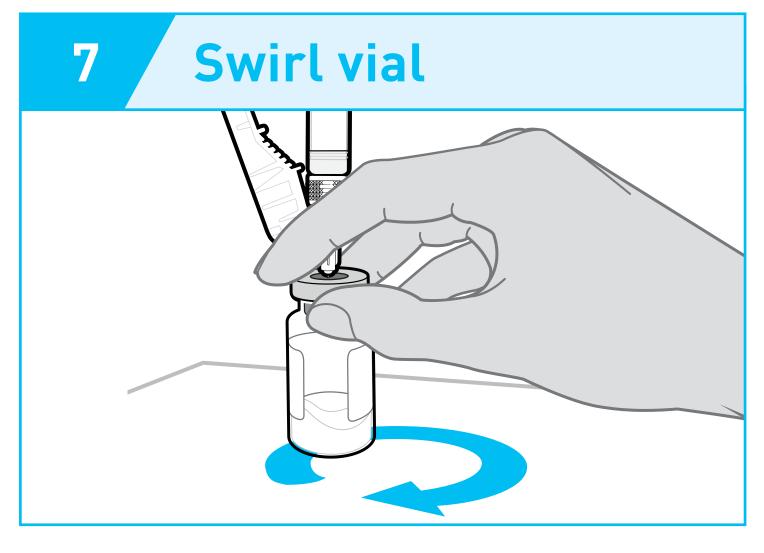
Stop the drug right away and call your doctor if you get any of these symptoms:

- Your skin or the white part of your eyes turns yellow (jaundice)
- Your urine turns dark
- Your bowel movements (stools) turn light in color
- You do not feel like eating for several days
- You feel sick to your stomach (nausea)
- You have unexplained tiredness
- You have pain in the stomach area (abdomen)



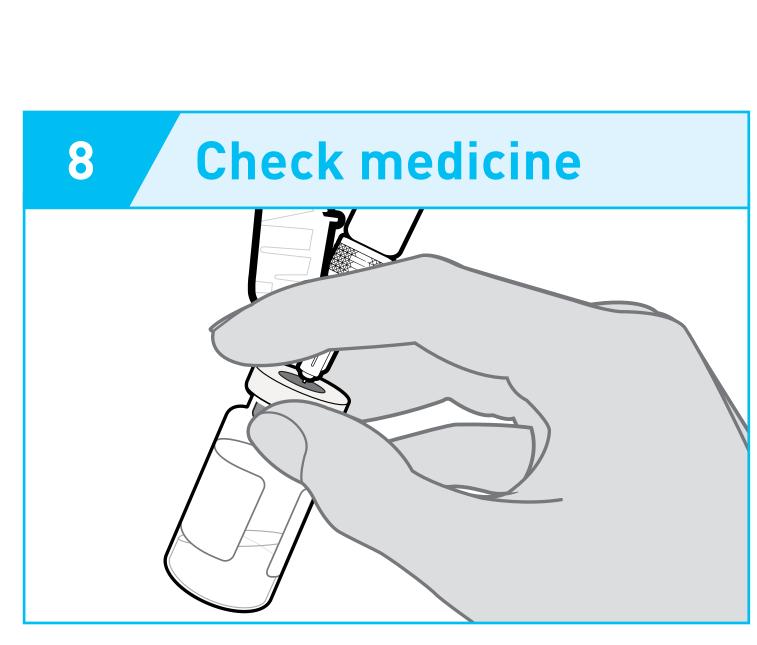


## How to mix—Steps 7-8



Support both the syringe and vial in one hand, as shown. Gently and slowly swirl the liquid, sliding the vial in a circular motion on a flat surface. Continue swirling the liquid until all the powder has fully dissolved.

**Note:** This may take up to 5 minutes. Do not shake.



Keeping the needle in the vial, look carefully at the medicine. It must be clear and free of particles.

**Do not use if:** The medicine is cloudy or hazy, the medicine has any color at all, there are any particles, or there is a layer of foam in the vial.



## Choosing an injection site

## Important

- You must use the mixed **SOMAVERT** immediately after you mix it. Throw away the medicine without injecting if you do not use it immediately.
- A healthcare professional should teach you how to mix and inject SOMAVERT

PRESCRIBING INFORMATION

DOWNLOAD PRINTABLE PDF How to mix:

Steps 1-3

Steps 4-6

**Steps 7-8** 

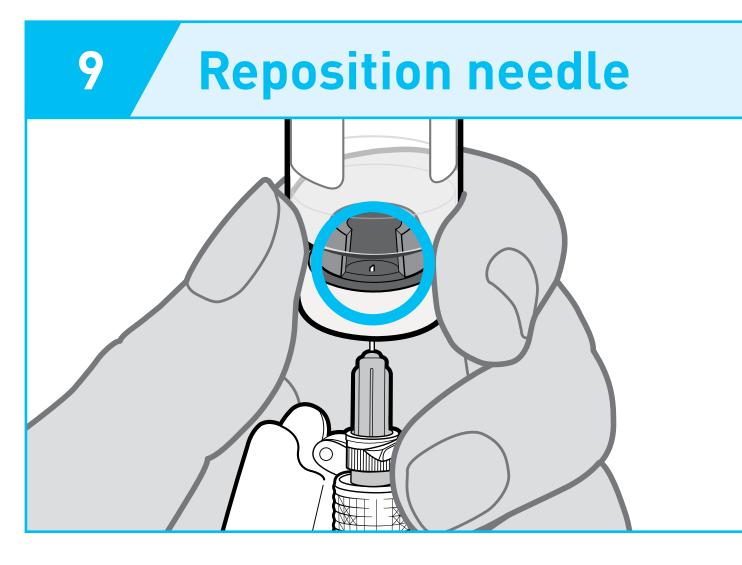
## **SELECTED SAFETY** INFORMATION

Your doctor may do blood tests before and during your treatment with SOMAVERT to check that the IGF-1 levels in your blood are normal and/ or that your liver is working correctly. Your dose of SOMAVERT may be changed based on the results of these tests.

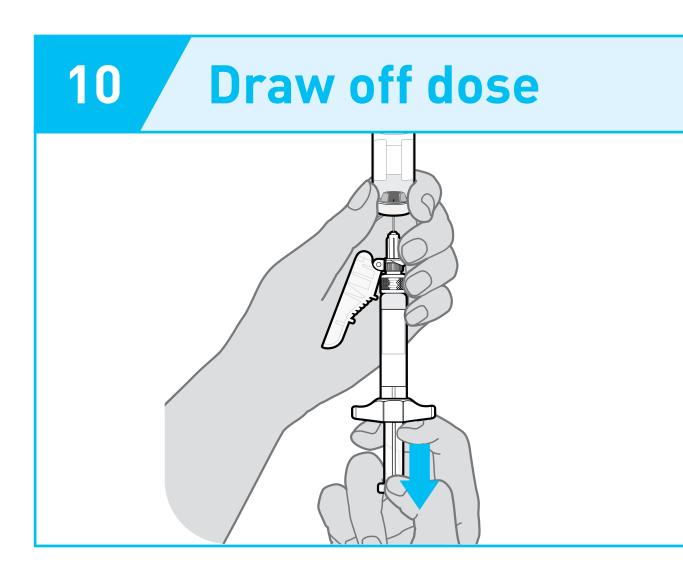




## How to prepare—Steps 9-10



Turn the vial so that you can see the stopper gap, as shown. Pull the needle down so that the needle tip is at the lowest point in the liquid. This will help you to draw off as much liquid as possible. Check that the plunger rod has not moved—if it has, then push it back all the way into the syringe. This ensures that all air is removed from the syringe before you draw off the dose.



Slowly pull back the plunger rod to withdraw as much medicine as possible from the vial.

Pull the needle out of the vial.



## Choosing an injection site



**Note:** If you see air in the syringe, tap the barrel to float the bubbles to the top, then gently push the bubbles out into the vial.

## Important

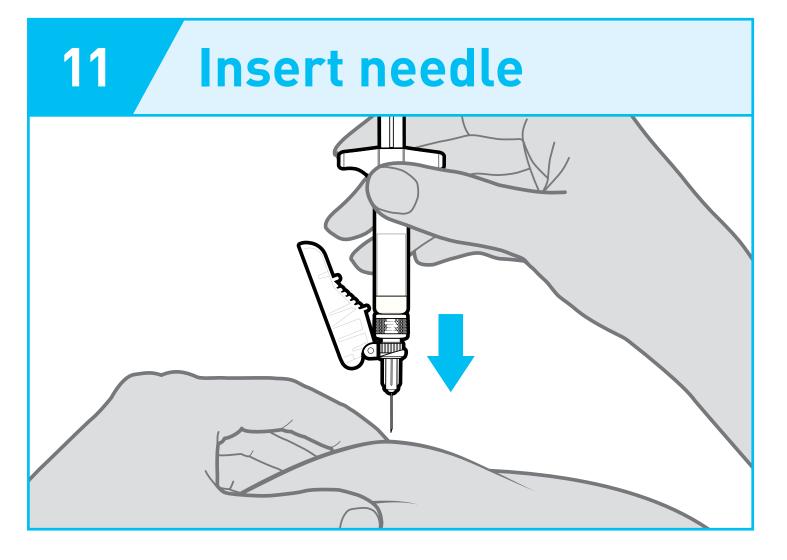
• A different site should be used each day for **SOMAVERT** injections. This can help to prevent skin problems such as lumpiness or soreness

## **SELECTED SAFETY** INFORMATION

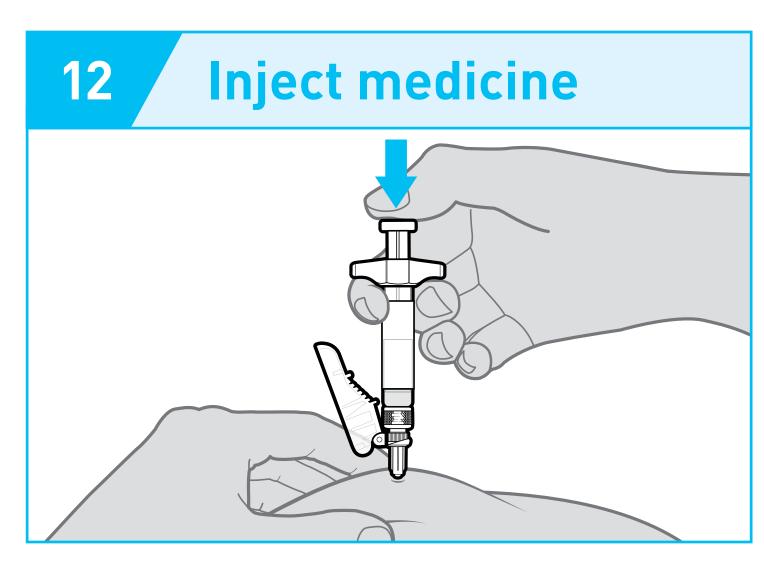
If you have stopped SOMAVERT because of an allergic reaction, your doctor will carefully monitor what happens if you start SOMAVERT again.



## How to inject—Steps 11-13



Gently pinch the skin at the site of injection. Insert the needle to its full depth into the pinched skin.



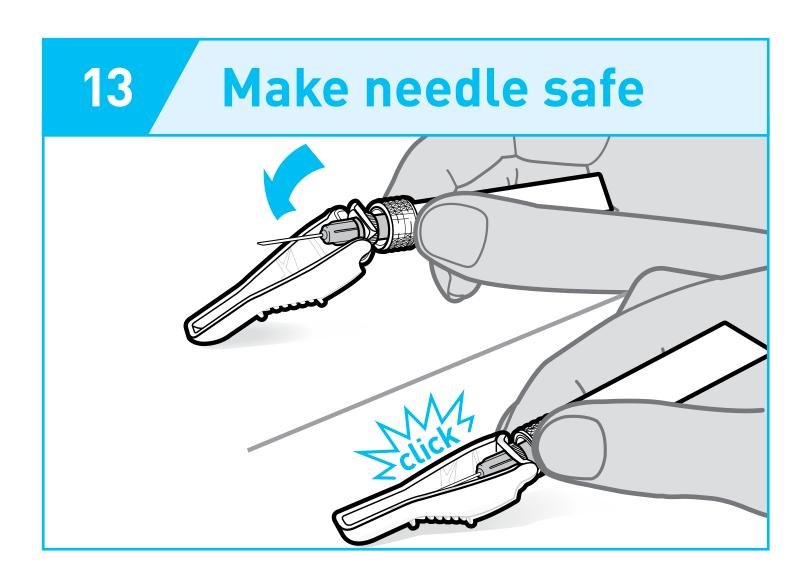
Push the plunger rod down slowly until the barrel is empty.

# Note: Make sure you keep the needle in at full depth.

Release the pinched skin and pull the needle straight out.

# Choosing an injection site





Fold the needle guard over the needle. Gently apply pressure using a hard surface to lock the needle guard in place.

Note: You will hear a click when the needle guard has been locked.

PRESCRIBING INFORMATION DOWNLOAD PRINTABLE PDF How to inject:

**Steps 11-13** 

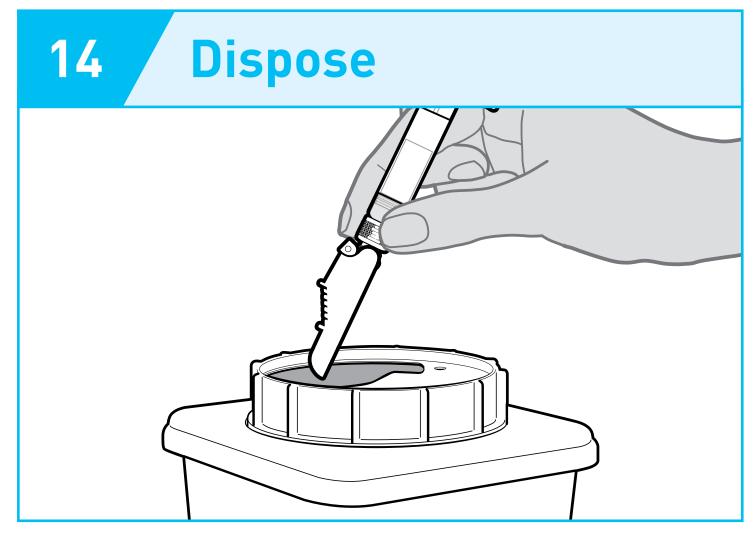
Steps 14-15

## SELECTED SAFETY INFORMATION

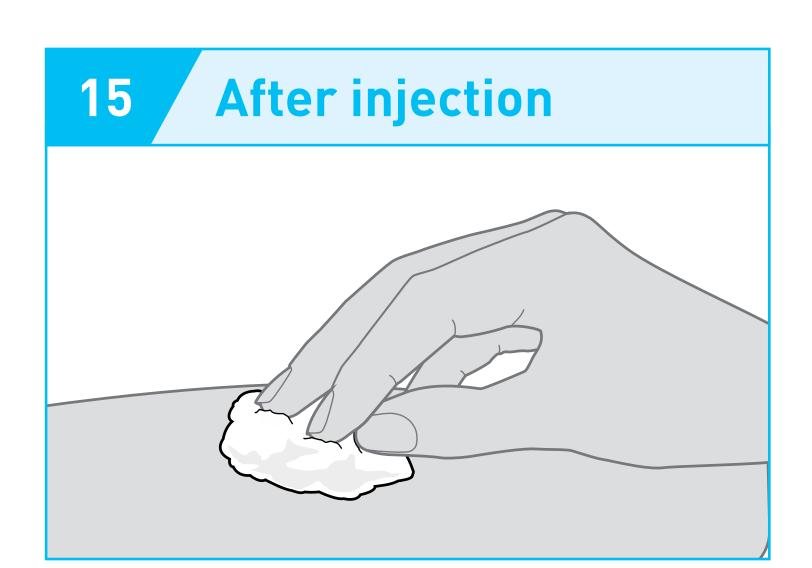
The most common side effects with SOMAVERT are infection, pain, nausea, diarrhea, abnormal liver function tests, flu-like symptoms, and reaction at the injection site. These are not all of the possible side effects of SOMAVERT. For more information, speak to your doctor.



## How to inject—Steps 14-15



Put your used syringes in an FDA cleared sharps disposal container right away after use. Do not throw away (dispose of) syringes in your household trash.



If necessary, use a clean cotton ball and press lightly on the injection area.

**Caution:** Do not rub the area.

# Choosing an injection site



How to inject:

Steps 11-13

**Steps 14-15** 

## SELECTED SAFETY INFORMATION

Inject SOMAVERT in a different place on your body each day. This can help prevent skin problems such as lumpiness or soreness.

SOMAVERT has not been studied in pregnant women. It is not known if SOMAVERT passes into the mother's milk or if it can harm the baby.



## INDICATION

SOMAVERT is a prescription medicine for acromegaly. It is for patients whose disease has not been controlled by surgery or radiation, or patients for whom these options are not appropriate. The goal of treatment with SOMAVERT is to have a normal IGF-1 level in the blood.

## **IMPORTANT SAFETY INFORMATION**

Do not use SOMAVERT<sup>®</sup> (pegvisomant for injection) if you are allergic to SOMAVERT or anything that is in it. Be sure to tell your doctor if you use narcotic painkillers (opioid medicines) because the dose of SOMAVERT may need to be changed. Blood sugar levels may go down when taking SOMAVERT. Be sure to tell your doctor if you use insulin or other medicines (oral hypoglycemic medicines) for diabetes. The dose of these medicines may need to be reduced when you use SOMAVERT. Some people who have used SOMAVERT have developed liver problems. These problems generally disappeared when those people stopped

taking SOMAVERT.

Stop the drug right away and call your doctor if you get any of these symptoms: • Your skin or the white part of your eyes turns yellow (jaundice)

- Your urine turns dark
- Your bowel movements (stools) turn light in color
- You do not feel like eating for several days
- You feel sick to your stomach (nausea)
- You have unexplained tiredness
- You have pain in the stomach area (abdomen)

Your doctor may do blood tests before and during your treatment with SOMAVERT to check that the IGF-1 levels in your blood are normal and/or that your liver is working correctly. Your dose of SOMAVERT may be changed based on the results of these tests. If you have stopped SOMAVERT because of an allergic reaction, your doctor will carefully monitor what happens if you start SOMAVERT again. The most common side effects with SOMAVERT are infection, pain, nausea, diarrhea, abnormal liver function tests, flu-like symptoms, and reaction at the injection site. These are not all of the possible side effects of SOMAVERT. For more information, speak to your doctor. Inject SOMAVERT in a different place on your body each day. This can help prevent skin problems such as lumpiness or soreness. SOMAVERT has not been studied in pregnant women. It is not known if SOMAVERT passes into the mother's milk or if it can harm the baby.

## You are encouraged to report negative side effects of prescription drugs to the FDA. Visit <u>www.fda.gov/MedWatch</u> or call 1-800-FDA-1088.

## Before you begin



### HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use SOMAVERT safely and effectively. See full prescribing information for SOMAVERT. SOMAVERT (pegvisomant) for injection, for subcutaneous use Initial U.S. Approval: 2003

--INDICATIONS AND USAGE -----SOMAVERT is a growth hormone receptor antagonist indicated for the treatment of acromegaly in patients who have had an inadequate response to surgery or radiation therapy, or for whom these therapies are not appropriate. The goal of treatment is to normalize serum insulin-like growth factor-1 (IGF-1) levels. (1)

---- DOSAGE AND ADMINISTRATION ---• Administer a 40 mg loading dose subcutaneously under physician supervision (2.1)

- After proper injection instruction, on day after loading dose, patients or caregivers begin daily subcutaneous injections of 10 mg (2.1)
- Adjust dosage in 5 mg increments or decrements until serum IGF-1 concentrations are maintained within age-adjusted normal range. Do not adjust dosage based on growth hormone (GH) levels or signs or symptoms of acromegaly (2.1)
- Dosage range is 10 mg to 30 mg once daily (2.1)
- Perform liver tests prior to first dosage and if greater than 3 times upper limit of normal should work-up prior to SOMAVERT administration (2.2)
- Follow reconstitution and injection procedures (2.3, 2.4)

**DOSAGE FORMS AND STRENGTHS -**For injection: 10 mg, 15 mg, 20 mg, 25 mg or 30 mg lyophilized powder in a single-dose vial for reconstitution supplied with a single-dose vial containing diluent (Sterile Water for Injection, USP) (3)

-- CONTRAINDICATIONS -None (4)

------ ADVERSE REACTIONS ------Most common reported adverse reactions (>6%) are infection, pain, nausea, diarrhea, abnormal liver tests, flu syndrome, injection site reaction (6)

To report SUSPECTED ADVERSE REACTIONS, contact Pfizer Inc. at 1-800-438-1985 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-- USE IN SPECIFIC POPULATIONS -Females and Males of Reproductive Potential: Advise premenopausal females of the potential for an unintended pregnancy (8.3)

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

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	7.1 Insulin and/or Oral Hypoglycemic Agents	are	e not listed
	7.2 Opioids		



## Choosing an injection site

-- WARNINGS AND PRECAUTIONS ----• *Hypoglycemia*: Monitor blood glucose in patients with diabetes mellitus and reduce anti-diabetic drug therapy as necessary (5.1) • Liver Toxicity: Should have more frequent liver tests and/or discontinue SOMAVERT (5.2)

• Systemic Hypersensitivity: Monitor closely when re-initiating SOMAVERT in patients with systemic hypersensitivity (5.5)

--DRUG INTERACTIONS ----• Insulin and/or Oral hypoglycemic Agents: Patients with acromegaly and with diabetes mellitus may require careful monitoring and dose reductions of insulin and/or oral hypoglycemic agents (5.2, 7.1) • *Opioids:* Patients on opioids may need higher SOMAVERT doses to achieve appropriate IGF-1 suppression (7.2)

**Revised: 7/2023** 

IFIC POPULATIONS and Males of Reproductive Potential Use Use pairment IARMACOLOGY nism of Action acodynamics acokinetics ogenicity LTOXICOLOGY ogenesis, Mutagenesis, Impairment of Fertility JDIES ED/STORAGE AND HANDLING

JNSELING INFORMATION

ections omitted from the full prescribing information

### **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

SOMAVERT is indicated for the treatment of acromegaly in patients who have had an inadequate response to surgery or radiation therapy, or for whom these therapies are not appropriate. The goal of treatment is to normalize serum insulin-like growth factor-1 (IGF-1) levels.

### 2 DOSAGE AND ADMINISTRATION

### 2.1 Dosage Information

The recommended loading dose of SOMAVERT is 40 mg given subcutaneously, under healthcare provider supervision. Provide proper training in subcutaneous injection technique to patients or their caregivers so they can receive once daily subcutaneous injections. On the next day following the loading dose, instruct patients or their caregivers to begin daily subcutaneous injections of 10 mg of SOMAVERT.

Titrate the dosage to normalize serum IGF-1 concentrations (serum IGF-1 concentrations should be measured every four to six weeks). The dosage should not be based on growth hormone (GH) concentrations or signs and symptoms of acromegaly. It is unknown whether patients who remain symptomatic while achieving normalized IGF-1 concentrations would benefit from increased SOMAVERT dosage.

- normal range.

The recommended dosage range is between 10 mg to 30 mg given subcutaneously once daily and the maximum daily dosage is 30 mg given subcutaneously once daily.

### 2.2 Assess Liver Tests Prior to Initiation of SOMAVERT

Prior to the start of SOMAVERT, patients should have an assessment of baseline levels of liver tests [serum] alanine aminotransferase (ALT), aspartate aminotransferase (AST), serum total bilirubin (TBIL), and alkaline phosphatase (ALP)]. For recommendations regarding initiation of SOMAVERT based on baseline liver tests and recommendations for monitoring of liver tests while on SOMAVERT, refer to Table 1 in *Warning and* Precautions (5.2).

### 2.3 Loading Dose Injection Procedure

The following instructions are for the **healthcare provider** to reconstitute and prepare the 40 mg loading dose. The healthcare provider will need to reconstitute 1 vial of lyophilized powder of SOMAVERT containing 20 mg of pegvisomant with supplied diluent (two vials of lyophilized powder and two vials of diluent will be needed for the 40 mg loading dose). The healthcare provider will also need to inject the reconstituted SOMAVERT solution twice into the patient's upper arm, upper thigh, abdomen, or buttocks (each injection in a different area).

- about 10 minutes prior to the planned injection time.



 Increase the dosage by 5 mg increments every 4-6 weeks if IGF-1 concentrations are elevated. • Decrease the dosage by 5 mg decrements every 4-6 weeks if IGF-1 concentrations are below the

• IGF-1 levels should also be monitored when a SOMAVERT dose given in multiple injections is converted to a single daily injection [see Clinical Pharmacology (12)].

(a) Before administering the loading dose, remove the first package (1 vial of lyophilized powder of SOMAVERT containing 20 mg of pegvisomant and 1 vial containing the diluent) from the refrigerator

(b) Withdraw 1 mL of the supplied diluent (Sterile Water for Injection) and inject slowly onto the sides of the vial containing lyophilized powder of SOMAVERT. Do not inject the diluent directly on the powder.



- (c) Do not invert the vial or shake the solution as this may cause denaturation of the pegvisomant protein. Slowly swirl the solution to ensure that all of the lyophilized powder has gone into solution. If foaming of the reconstituted SOMAVERT solution is seen, the solution is likely damaged and therefore inappropriate to inject.
- (d) Visually inspect the reconstituted SOMAVERT solution for particulate matter and discoloration prior to administration. The reconstituted solution should be clear. If the solution is cloudy, do not use it. Once reconstituted, the solution will contain 20 mg of pegvisomant in 1 mL of solution.
- (e) Withdraw the 1 mL reconstituted SOMAVERT solution. The solution must be administered within 6 hours of reconstitution.
- (f) Inject the first reconstituted SOMAVERT solution (20 mg/mL) subcutaneously into the patient's upper arm, upper thigh, abdomen, or buttocks using a 90-degree angle.
- (g) Repeat steps (a) to (e) to reconstitute the second SOMAVERT dose of 20mg.
- (h) Finally, inject the second reconstituted SOMAVERT solution (20 mg/mL) subcutaneously into the patient's upper arm, upper thigh, abdomen, or buttocks using a 90-degree angle (different area than the first injection).

### **2.4 Maintenance Dose Injection Procedure**

For patient or caregiver instructions for reconstitution and administration of daily doses (10 mg to 30 mg), see the Patient's Instructions for Use.

- a) Before administering the dose, remove one package (1 vial of lyophilized powder of SOMAVERT containing 10 mg, 15 mg, 20 mg, 25 mg or 30 mg of pegvisomant and 1 vial containing the diluent) from the refrigerator about 10 minutes prior to the planned injection time.
- b) Withdraw 1 mL of the supplied 5 mL diluent (Sterile Water for Injection) and inject slowly onto the sides of the vial containing lyophilized powder of SOMAVERT. Do not inject the diluent directly on the powder.
- c) Do not invert the vial or shake the solution as this may cause denaturation of the pegvisomant protein. Slowly swirl the solution to ensure that all of the lyophilized powder has gone into solution. If foaming of the reconstituted SOMAVERT solution is seen, the solution is likely damaged and therefore inappropriate to inject.
- d) Visually inspect the reconstituted SOMAVERT solution for particulate matter and discoloration prior to administration. The reconstituted solution should be clear. If the solution is cloudy, do not use it. Once reconstituted, the solution will contain 10 mg, 15 mg, 20 mg, 25 mg or 30 mg of pegvisomant in 1 mL of solution.
- e) Withdraw the 1 mL reconstituted SOMAVERT solution. The solution must be administered within 6 hours of reconstitution.
- Inject the reconstituted SOMAVERT solution subcutaneously into the upper arm, upper thigh, abdomen, or buttocks using a 90-degree angle.

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

For injection: 10 mg, 15 mg, 20 mg, 25 mg or 30 mg white lyophilized powder in a single-dose vial for reconstitution, each supplied with Sterile Water for Injection, USP in a separate glass vial to be used as diluent.

### **4** CONTRAINDICATIONS

None.

### **5 WARNINGS AND PRECAUTIONS**

### 5.1 Hypoglycemia Associated With GH Lowering in Patients With Diabetes Mellitus

## Choosing an injection site

## How to mix

GH opposes the effects of insulin on carbohydrate metabolism by decreasing insulin sensitivity; thus, glucose tolerance may improve in some patients treated with SOMAVERT. Patients should be carefully monitored and doses of anti-diabetic drugs reduced as necessary to avoid hypoglycemia in patients with diabetes mellitus.

### 5.2 Liver Toxicity

Baseline serum alanine aminotransferase (ALT), aspartate aminotransferase (AST), serum total bilirubin (TBIL), and alkaline phosphatase (ALP) levels should be obtained prior to initiating therapy with SOMAVERT. Table 1 lists recommendations regarding initiation of treatment with SOMAVERT, based on the results of these liver tests (LTs).

Asymptomatic, transient elevations in transaminases up to 15 times ULN have been observed in <2% of subjects among two open-label trials (with a total of 147 patients). These reports were not associated with an increase in bilirubin. Transaminase elevations normalized with time, most often after suspending treatment. Postmarketing reports have identified elevations in serum hepatic transaminases up to greater than 20 times ULN associated with elevation in total bilirubin greater than 2 times ULN. In many of these cases, discontinuation of SOMAVERT therapy resulted in improvement or resolution of hepatic laboratory abnormalities.

SOMAVERT should be used in accordance with the information presented in Table 2 with respect to liver test abnormalities while on SOMAVERT treatment.

### Table 1. Recommendations of Initiating SOMAVERT Based on Baseline LTs and Periodic Monitoring of LTs During SOMAVERT Treatment Rasolino I T Lovals **Recommendations**

Baseline LI Levels	
Normal	•
Elevated, but less than or equal to 3 times ULN	Ma for ani
Greater than 3 times ULN	•

If a patient develops LT elevations, or any other signs or symptoms of liver dysfunction while receiving SOMAVERT, the following patient management is recommended (Table 2).

### Table 2. Clinical Recommendations Based on Liver Test Results While on SOMAVERT LT Levels and Clinical

Signs/Symptoms Greater than or equal to 3 but less than 5 times ULN (without signs/symptoms of hepatitis or other liver injury, or increase in serum TBIL)

At least 5 times ULN, or

# 

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- May treat with SOMAVERT.
- Monitor LTs at monthly intervals during the first 6
- months of treatment, quarterly for the next 6 months and then bi-annually for the next year.

ay treat with SOMAVERT; however, monitor LTs monthly at least one year after initiation of therapy and then binnually for the next year.

Do not treat with SOMAVERT until a comprehensive workup establishes the cause of the patient's liver dysfunction.

- Determine if cholelithiasis or choledocholithiasis is
- present, particularly in patients with a history of prior
- therapy with somatostatin analogs.
- Based on the workup, consider initiation of therapy with SOMAVERT.
- If the decision is to treat, LTs and clinical symptoms should be monitored very closely.

	Recommendations
r	<ul> <li>May continue therapy with SOMAVERT. However, monitor LTs weekly to determine if further increases occur (see below).</li> </ul>
	<ul> <li>Perform a comprehensive hepatic workup to discern if an alternative cause of liver dysfunction is present.</li> </ul>
	Discontinue SOMAVERT immediately.



transaminase elevations at least 3 times ULN associated with any increase in serum TBIL (with or without signs/symptoms of hepatitis or other liver injury)	•	Perform a comprehensive hepatic v serial LTs, to determine if and when to normal. If LTs normalize (regardless of whe cause of the liver dysfunction is disc cautious re-initiation of therapy with frequent LT monitoring.
Signs or symptoms suggestive of hepatitis or other liver injury (e.g., jaundice, bilirubinuria, fatigue, nausea, vomiting, right upper quadrant pain, ascites, unexplained edema, easy bruisability)	•	Immediately perform a comprehens If liver injury is confirmed, SOMAVE discontinued.

### **5.3 Cross-Reactivity With GH Assays**

SOMAVERT has significant structural similarity to growth hormone (GH) which causes it to cross-react in commercially available GH assays. Since serum concentrations of therapeutically effective doses of SOMAVERT are generally 100 to 1000 times higher than the actual serum GH concentrations seen in patients with acromegaly, measurements of serum GH concentrations will appear falsely elevated.

### 5.4 Lipohypertrophy

There have been cases of lipohypertrophy in patients treated with SOMAVERT. In a double-blind, 12-week, placebo-controlled study, there was one case (1.3%) of injection site lipohypertrophy reported in a subject receiving 10 mg/day. The subject recovered while on treatment. Among two open-label trials (with a total of 147 patients), there were two subjects, both receiving 10 mg/day, who developed lipohypertrophy. One case recovered while on treatment, and one case resulted in a discontinuation of treatment. Injection sites should be rotated daily to help prevent lipohypertrophy (different area than the last injection).

### 5.5 Systemic Hypersensitivity

In patients with systemic hypersensitivity reactions, caution and close monitoring should be exercised when reinitiating SOMAVERT therapy [see Adverse Reactions (6.2)].

### 6 ADVERSE REACTIONS

Clinically significant adverse reactions that appear in other section of the labeling include:

- Hypoglycemia Associated with GH Lowering in Patients with Diabetes Mellitus [see Warnings and Precautions (5.1)]
- Liver Toxicity [see Warnings and Precautions (5.2)]
- Cross-Reactivity with GH Assays [see Warnings and Precautions (5.3)]
- Lipohypertrophy [see Warnings and Precautions (5.4)]
- Systemic Hypersensitivity [see Warnings and Precautions (5.5)]

Elevations of serum concentrations of ALT and AST greater than ten times the ULN were reported in two patients (0.8%) exposed to SOMAVERT in pre-approval clinical studies. One patient was rechallenged with SOMAVERT, and the recurrence of elevated transaminase levels suggested a probable causal relationship between administration of the drug and the elevation in liver enzymes. A liver biopsy performed on the second patient was consistent with chronic hepatitis of unknown etiology. In both patients, the transaminase elevations normalized after discontinuation of the drug.

Elevations in ALT and AST levels were not associated with increased levels of TBIL and ALP, with the exception of two patients with minimal associated increases in ALP levels (i.e., less than 3 times ULN). The

## Choosing an injection site

workup, including en serum levels return

ether an alternative scovered), consider h SOMAVERT, with

nsive hepatic workup. ERT should be

5

transaminase elevations did not appear to be related to the dose of SOMAVERT administered, generally occurred within 4 to 12 weeks of initiation of therapy, and were not associated with any identifiable biochemical, phenotypic, or genetic predictors.

### 6.1 Clinical Trials 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 trials of another drug and may not reflect the rates observed in practice.

In a 12-week randomized, placebo-controlled, double-blind, fixed-dose study of SOMAVERT in subjects with acromegaly, 32 subjects received placebo and 80 subjects received SOMAVERT once daily [see Clinical Studies (14)]. A total of 108 subjects (30 placebo, 78 SOMAVERT) completed 12 weeks of study treatment.

Overall, eight patients with acromegaly (5.3%) withdrew from pre-marketing clinical studies because of adverse events, including two patients with marked transaminase elevations, one patient with lipohypertrophy at the injection sites, and one patient with substantial weight gain. Most adverse events did not appear to be dosedependent. Table 3 shows the incidence of adverse events that were reported in at least two patients treated with SOMAVERT and at frequencies greater than placebo during the 12-week, placebo-controlled study.

### Table 3. Adverse Reactions in a 12-week Placebo-Controlled Study in Patients with Acromegaly<sup>\*</sup>

	Dlaasha	SOMAVERI					
	Placebo n=32	10 mg/day n=26	15 mg/day n=26	20 mg/day N=28			
Infection <sup>†</sup>	2 (6%)	6 (23%)	0	0			
Pain	2 (6%)	2 (8%)	1 (4%)	4 (14%)			
Nausea	1 (3%)	0	2 (8%)	4 (14%)			
Diarrhea	1 (3%)	1 (4%)	0	4 (14%)			
Abnormal liver function tests	1 (3%)	3 (12%)	1 (4%)	1 (4%)			
Flu syndrome	0	1 (4%)	3 (12%)	2 (7%)			
Injection site reaction	0	2 (8%)	1 (4%)	3 (11%)			
Dizziness	2 (6%)	2 (8%)	1 (4%)	1 (4%)			
Accidental injury	1 (3%)	2 (8%)	1 (4%)	0			
Back pain	1 (3%)	2 (8%)	0	1 (4%)			
Sinusitis	1 (3%)	2 (8%)	0	1 (4%)			
Chest pain	0	1 (4%)	2 (8%)	0			
Peripheral edema	0	2 (8%)	0	1 (4%)			
Hypertension	0	0	2 (8%)	0			
Paresthesia	2 (6%)	0	0	2 (7%)			
able includes only those events that wer	e reported in at I	east 2 patients	and at a highe	er incidence in			

with SOMAVERT than in patients treated with placebo. symptoms (1) and chest infection (1).

### 6.2 **Postmarketing Experience**

Adverse Reactions from Postmarketing Spontaneous Reports The following adverse reactions have been identified during post-approval use of SOMAVERT. 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.

Systemic hypersensitivity reactions including anaphylactic reactions, laryngospasm, angioedema, generalized skin reactions (rash, erythema, pruritus, urticaria) have been reported in post-marketing use. Some patients



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I able includes only those events that were reported in at least 2 patients and at a higher incidence in patients treated

COMAVEDT

<sup>†</sup> The 6 events coded as "infection" in the group treated with SOMAVERT 10 mg were reported as cold symptoms (3), upper respiratory infection (1), blister (1), and ear infection (1). The 2 events in the placebo group were reported as cold



required hospitalization. Symptoms did not re-occur in all patients after re-challenge [see Warnings and Precautions (5.5)].

Adverse Reactions from an Observational Study

ACROSTUDY was an international observational registry that captured long term safety data in 2221 patients with acromegaly treated with SOMAVERT for a mean treatment duration of 8.5 years. Patients could also receive other therapy for acromegaly during the registry period. Treatment dose and schedule were at the discretion of each treating healthcare provider. Although safety monitoring as per the recommended schedule was mandatory, not all assessments were performed at all time points for every patient. Because of this, comparison of rates of adverse events to those in the original clinical trial is not appropriate. Of the 1327 patients who had a normal AST and ALT at baseline, 20 (1.5%) patients had elevated tests >3-5 times ULN, and 22 (1.7%) patients had elevated tests >5 times ULN. Lipohypertrophy was reported in 35 (1.6%) patients. Of the 1795 patients who had a MRI reported at baseline and at least once during follow up in the study, MRI results showed that 128 (7.1%) were reported to have an increase, 310 (17.3%) were reported to have a decrease, 81 (4.5%) had both increase and decrease, and 1276 (71.1%) had no change.

### DRUG INTERACTIONS

### 7.1 Insulin and/or Oral Hypoglycemic Agents

After initiation of SOMAVERT, patients with acromegaly and diabetes mellitus treated with insulin and/or oral hypoglycemic agents may require dose reductions of insulin and/or oral hypoglycemic agents [see Warnings and Precautions (5.1)].

### 7.2 Opioids

In clinical studies, patients taking opioids often needed higher SOMAVERT doses to normalize IGF-1 concentrations compared with patients not receiving opioids. The mechanism of this interaction is not known.

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

### 8.1 Pregnancy

### **Risk Summary**

Postmarketing reports of SOMAVERT use in pregnant women are insufficient to establish a drug-associated risk for major birth defects, miscarriage or adverse maternal or fetal outcomes. Acromegaly may improve during pregnancy (see Clinical Considerations). In animal reproduction studies, fetotoxicity was observed at a dose that was 6 times the maximum recommended human dose based on body surface area following subcutaneous administration of pegvisomant during organogenesis or during the preimplantation period (see Data).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

### **Clinical Considerations**

Disease-associated maternal and/or embryofetal risk

Published data from case reports, case series, and a small interventional study in pregnant women with acromegaly have demonstrated that acromegaly may improve or stabilize without treatment during pregnancy, particularly if acromegaly is treated before pregnancy. In rare cases, acromegaly may worsen during pregnancy. Since IGF-1 levels may change physiologically during pregnancy and interpreting IGF-1 and growth hormone levels in pregnant women with acromegaly may be unreliable, clinical monitoring is recommended.



## Choosing an injection site

### Data

### Animal Data

The effects of pegvisomant on early embryonic development and embryo-fetal development were evaluated in two separate studies, which were conducted in pregnant rabbits with pegvisomant at subcutaneous doses of 1, 3, and 10 mg/kg/day. There was no evidence of teratogenic effects associated with pegvisomant administration during organogenesis. At the 10 mg/kg/day dose (6 times the maximum human therapeutic dose based on body surface area), a reproducible, slight increase in post-implantation loss was observed in both studies.

### 8.2 Lactation

### **Risk Summary**

Limited information from a case report in published literature reported that the level of pegvisomant in human milk was below the level of detection. There is no information available on the effects of the drug on the breastfed infant or the effects of the drug on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for SOMAVERT and any potential adverse effects on the breastfed child from SOMAVERT or from the underlying maternal condition.

### 8.3 Females and Males of Reproductive Potential

Discuss the potential for unintended pregnancy with premenopausal women as the therapeutic benefits of a reduction in growth hormone (GH) levels and normalization of insulin-like growth factor 1 (IGF-1) concentration in acromegalic females treated with pegvisomant may lead to improved fertility.

### 8.4 Pediatric Use

The safety and effectiveness of SOMAVERT in pediatric patients have not been established.

### 8.5 Geriatric Use

Clinical studies of SOMAVERT did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

### 8.6 Renal Impairment

SOMAVERT was not studied in patients with renal impairment and the safety and efficacy in these patients is not known.

### **10 OVERDOSAGE**

In one reported incident of acute overdose with SOMAVERT during pre-marketing clinical studies, a patient self-administered 80 mg/day (2.7 times the maximum recommended maintenance dosage) for seven days. The patient experienced a slight increase in fatigue, had no other complaints, and demonstrated no significant clinical laboratory abnormalities.

In cases of overdose, administration of SOMAVERT should be discontinued and not resumed until IGF-1 levels return to within or above the normal range.

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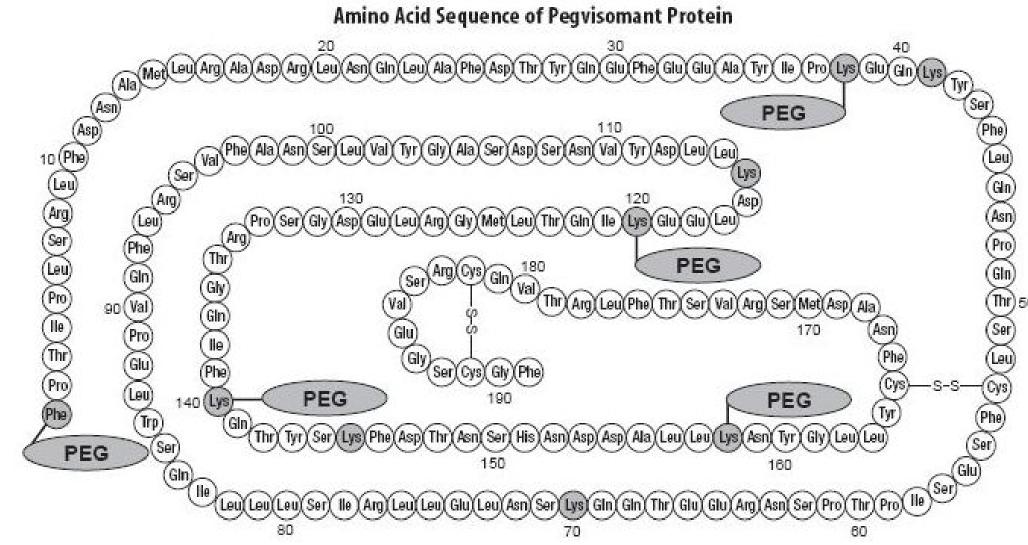
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### **11 DESCRIPTION**

Pegvisomant is an analog of human growth hormone (GH) of recombinant DNA origin that acts as a GH receptor antagonist.

It contains 191 amino acid residues. The molecular weight of pegvisomant is 22 kDa. The molecular weight of the PEG portion of pegvisomant is approximately 5 kDa. The predominant molecular weights of pegvisomant are thus approximately 42, 47, and 52 kDa. The schematic shows the amino acid sequence of the pegvisomant protein (PEG polymers are shown attached to the 5 most probable attachment sites). Pegvisomant is synthesized by a specific strain of *Escherichia coli* bacteria that has been genetically modified by the addition of a plasmid that carries a gene for GH receptor antagonist.



Stippled residues indicate PEG attachment sites (Phe<sub>1</sub>, Lys<sub>38</sub>, Lys<sub>41</sub>, Lys<sub>70</sub>, Lys<sub>115</sub>, Lys<sub>120</sub>, Lys<sub>140</sub>, Lys<sub>145</sub>, Lys<sub>158</sub>) Shown below are the amino acid substitutions in pegvisomant, relative to human GH.

hGH	Pegvisomant
His <sub>18</sub>	Asp <sub>18</sub>
Ala <sub>21</sub>	Asn <sub>21</sub>
Gly <sub>120</sub>	Lys <sub>120</sub>
Arg <sub>167</sub>	Asn <sub>167</sub>
Lys <sub>168</sub>	Ala <sub>168</sub>
Asp <sub>171</sub>	Ser 171
Lys	Arg <sub>172</sub>
Glu <sub>174</sub>	Ser <sub>174</sub>
<b>lle</b> 179	Thr 179

SOMAVERT (pegvisomant) for injection is a sterile, white lyophilized powder intended for subcutaneous injection after reconstitution. SOMAVERT is supplied in packages that include a separate glass vial containing Sterile Water for Injection, USP, that is a sterile, nonpyrogenic preparation of water for injection that contains no bacteriostat, antimicrobial agent, or added buffer, to be used as a diluent.



## Choosing an injection site

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SOMAVERT is available in single-dose sterile vials containing 10 mg, 15 mg, 20 mg, 25 mg or 30 mg of pegvisomant. SOMAVERT 10 mg, 15 mg, and 20 mg vials also contain glycine (1.36 mg), mannitol (36 mg), sodium dihydrogen phosphate monohydrate (0.36 mg), and sodium phosphate dibasic anhydrous (1.04 mg). After reconstitution with 1 mL of Water for Injection, USP, the resulting concentration is 10 mg/mL, 15 mg/mL and 20 mg/mL, respectively, with a pH of 7.1 - 7.7.

SOMAVERT 25 mg vials also contain glycine (1.7 mg), mannitol (45 mg), sodium dihydrogen phosphate monohydrate (0.45 mg), and sodium phosphate dibasic anhydrous (1.3 mg). After reconstitution with 1 mL of Water for Injection, USP, the resulting concentration is 25 mg/mL with a pH of 7.1 - 7.7.

SOMAVERT 30 mg vials also contain glycine (2.04 mg), mannitol (54 mg), sodium dihydrogen phosphate monohydrate (0.54 mg), and sodium phosphate dibasic anhydrous (1.56 mg). After reconstitution with 1 mL of Water for Injection, USP, the resulting concentration is 30 mg/mL with a pH of 7.1 - 7.7.

### **12 CLINICAL PHARMACOLOGY**

### 12.1 Mechanism of Action

Pegvisomant selectively binds to growth hormone (GH) receptors on cell surfaces, where it blocks the binding of endogenous GH, and thus interferes with GH signal transduction.

Inhibition of GH action results in decreased serum concentrations of IGF-1, as well as other GH-responsive serum proteins such as free IGF-1, the acid-labile subunit of IGF-1 (ALS), and insulin-like growth factor binding protein-3 (IGFBP-3).

### 12.2Pharmacodynamics

Pegvisomant binds selectively to the GH receptor, and does not cross-react with 19 other cytokine receptors tested, including prolactin. Pegvisomant leads to decreased serum concentrations of IGF-1, free IGF-1, ALS, and IGFBP-3 [see Clinical Studies (14, Figure 1)].

### 12.3Pharmacokinetics

Absorption: Following subcutaneous administration, peak serum pegvisomant concentrations are not generally attained until 33 to 77 hours after administration. The mean extent of absorption of a 20-mg subcutaneous dose was 57%, relative to a 10-mg intravenous dose.

*Distribution:* The mean apparent volume of distribution of pegvisomant is 7 L (12% coefficient of variation), suggesting that pegvisomant does not distribute extensively into tissues. After a single subcutaneous administration, exposure (C<sub>max</sub>, AUC) to pegvisomant increases disproportionately with increasing dose. Mean ± SEM serum pegvisomant concentrations after 12 weeks of therapy with daily doses of 10, 15, and 20 mg were 6600 ± 1330; 16,000 ± 2200; and 27,000 ± 3100 ng/mL, respectively.

The relative bioavailability of 1 x 30 mg pegvisomant was compared to 2 x 15 mg pegvisomant in a single dose study. The AUC inf and  $C_{max}$  of pegvisomant when administered as one injection of 30 mg strength was approximately 6% and 4% greater, respectively, as compared to when administered as two injections of 15 mg strengths.

*Metabolism and Elimination:* The pegvisomant molecule contains covalently bound polyethylene glycol polymers in order to reduce the clearance rate. Clearance of pegvisomant following multiple doses is lower than seen following a single dose. The mean total body systemic clearance of pegvisomant following multiple doses is estimated to range between 36 to 28 mL/h for subcutaneous doses ranging from 10 to 20 mg/day, respectively. Clearance of pegvisomant was found to increase with body weight. Pegvisomant is eliminated from serum with a mean half-life estimates ranging from 60 to 138 hours following either single or multiple doses. Less than 1%



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of administered drug is recovered in the urine over 96 hours. The elimination route of pegvisomant has not been studied in humans.

### **Drug Interaction Studies**

In clinical studies, patients on opioids often needed higher serum pegvisomant concentrations to achieve appropriate IGF-1 suppression compared with patients not receiving opioids. The mechanism of this interaction is not known [see Drug Interactions (7.2)].

### **Specific Populations**

No pharmacokinetic studies have been conducted in patients with renal impairment, patients with hepatic impairment, geriatric patients, or pediatric patients and the effects of race on the pharmacokinetics of pegvisomant has not been studied. No gender effect on the pharmacokinetics of pegvisomant was found in a population pharmacokinetic analysis.

### 12.6 Immunogenicity

The observed incidence of anti-drug antibodies is highly dependent on the sensitivity and specificity of the assay. Differences in assay methods preclude meaningful comparisons of the incidence of anti-drug antibodies in the studies described below with the incidence of anti-drug antibodies in other studies, including those of SOMAVERT or other growth hormone analogs.

In pre-marketing clinical studies, approximately 17% of the SOMAVERT-treated patients developed low titer, non-neutralizing anti-GH antibodies. Although the presence of these antibodies did not appear to impact the efficacy of SOMAVERT, the long term clinical significance of these antibodies is not known. No assay for antipegvisomant antibodies is commercially available for patients receiving SOMAVERT.

The data above reflect the percentage of patients whose test results were considered positive for antibodies to SOMAVERT. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody positivity in an assay may be influenced by several factors including sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to SOMAVERT with the incidence of antibodies to other products may be misleading.

### **13 NONCLINICAL TOXICOLOGY**

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

### Carcinogenesis

Pegvisomant was administered subcutaneously to rats daily for 2 years at doses of 2, 8, and 20 mg/kg (about 2, 9, and 22-fold a single 30 mg dose in humans on an AUC basis). Long term treatment with pegvisomant at 8 and 20 mg/kg caused an increase in malignant fibrous histiocytoma at injection sites in males. Injection site tumors were not seen in female rats at the same doses. The increased incidence of injection site tumors was most probably caused by irritation and the high sensitivity of the rat to repeated subcutaneous injections.

### Mutagenesis

Pegvisomant did not cause genetic damage in standard *in vitro* assays (bacterial mutation, human lymphocyte chromosome aberration).

### Impairment of Fertility

Fertility studies have not been conducted with pegvisomant.

### **14 CLINICAL STUDIES**

## Choosing an injection site

## How to mix

A total of one hundred twelve patients (63 men and 49 women) with acromegaly participated in a 12-week, randomized, double-blind, multi-center study comparing placebo and SOMAVERT. The mean ±SD age was 48±14 years, and the mean duration of acromegaly was 8±8 years. Ninety three had undergone previous pituitary surgery, of which 57 had also been treated with conventional radiation therapy. Six patients had undergone irradiation without surgery, nine had received only drug therapy, and four had received no previous therapy. At study start, the mean ± SD time since the subjects' last surgery and/or irradiation therapy, respectively, was  $6.8 \pm 0.93$  years (n=63) and  $5.6 \pm 0.57$  years (n=93).

Subjects were qualified for enrollment if their serum IGF-1, drawn after the required drug washout period, was ≥1.3 times the upper limit of the age-adjusted normal range. They were randomly assigned at the baseline visit to one of four treatment groups: placebo (n=32), 10 mg/day (n=26), 15 mg/day (n= 26), or 20 mg/day (n=28) of SOMAVERT subcutaneously IGF-1. The primary efficacy endpoint was IGF-1 percent change in IGF-1 concentrations from baseline to week 12. The three groups that received SOMAVERT showed statistically significant (p<0.01) reductions in serum levels of IGF-1 compared with the placebo group (Table 4).

### Table 4. Mean Percent Change from Baseline in IGF-1 at Week 12 for Intent-to-Treat Population

	Placebo		SOMAVERT	
	n=31	10 mg/day n=26	15 mg/day n=26	20 mg/day n=28
Mean baseline IGF-1 (ng/mL) (SD)	670 (288)	627 (251)	649 (293)	732 (205)
Mean percent change from baseline in IGF-1 (SD)	-4.0 (17)	-27 (28)	-48 (26)	-63 (21)
SOMAVERT minus Placebo (95% CI for treatment difference)		-23 <sup>*</sup> (-35, -11)	-44 <sup>*</sup> (-56, -33)	-59 <sup>*</sup> (-68, -49)

\* P<0.01; n=number of patients; SD = standard deviation

There were also reductions in serum levels of free IGF-1, IGFBP-3, and ALS compared with placebo at all post-baseline visits (Figure 1).

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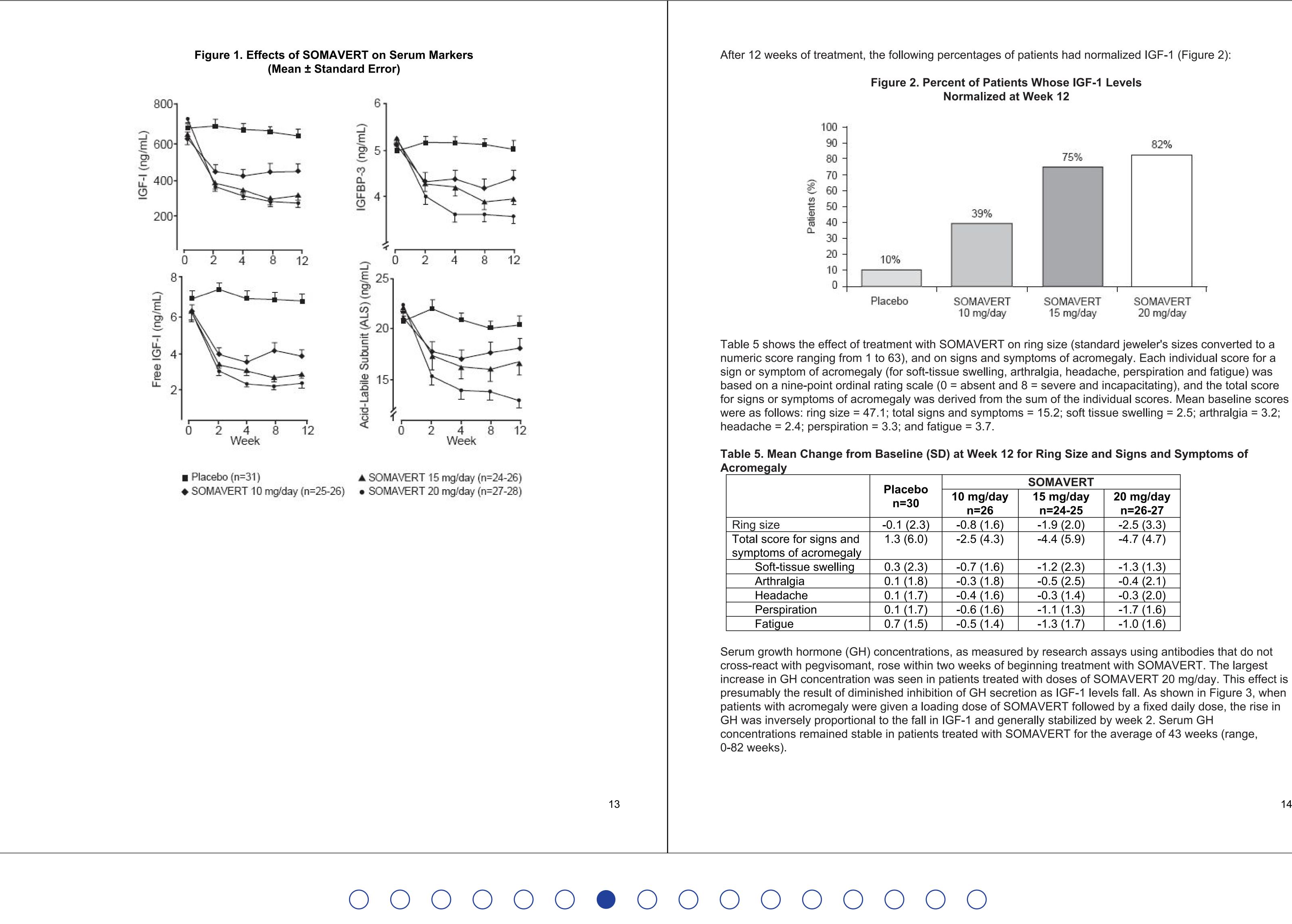
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## Choosing an injection site

## How to mix

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eline	(SD) a	at	Week	12	for	Ring	Size	and	Signs	and	Symptom	s of
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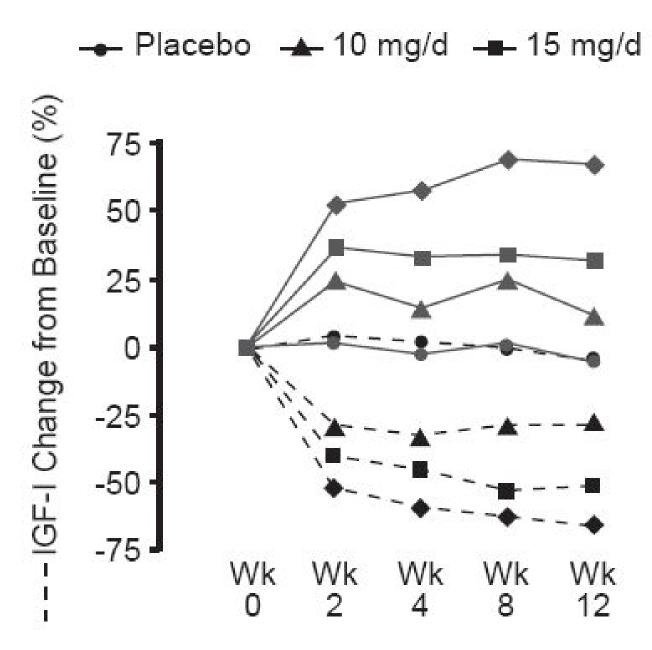
SOMAVERT										
10 mg/day n=26	15 mg/day n=24-25	20 mg/day n=26-27								
-0.8 (1.6)	-1.9 (2.0)	-2.5 (3.3)								
-2.5 (4.3)	-4.4 (5.9)	-4.7 (4.7)								
-0.7 (1.6)	-1.2 (2.3)	-1.3 (1.3)								
-0.3 (1.8)	-0.5 (2.5)	-0.4 (2.1)								
-0.4 (1.6)	-0.3 (1.4)	-0.3 (2.0)								
-0.6 (1.6)	-1.1 (1.3)	-1.7 (1.6)								
-0.5 (1.4)	-1.3 (1.7)	-1.0 (1.6)								
	n=26 -0.8 (1.6) -2.5 (4.3) -0.7 (1.6) -0.3 (1.8) -0.4 (1.6) -0.6 (1.6)	$\begin{array}{c c c c c c c c c c c c c c c c c c c $								

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### Figure 3. Percent Change in Serum GH and IGF-



In the open-label extension to the clinical study, 109 subjects (including 6 exposure of 42.6 weeks (range 1 day – 82 weeks), 93 (85.3%) subjects h an SAE, and 4 (3.7%) discontinued due to an AE (headaches, elevated line and weight gain). A total of 100 (92.6%) of the 108 subjects with available concentration at any visit during the study.

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

SOMAVERT (pegvisomant) for injection is a white lyophilized powder sup package configurations:

SOMAVERT (pegvisomant) for							
injection							
Package	NDC						
Configuration							
10 mg dose	NDC 0009-5176-						
vial	02						
15 mg dose	NDC 0009-5178-						
vial	02						
20 mg dose	NDC 0009-5180-						
vial	02						
25 mg dose	NDC 0009-5199-						
vial	01						
30 mg dose	NDC 0009-5200-						
vial	01						

Each package of SOMAVERT also includes a single-dose vial containing USP.

### Storage

Prior to reconstitution, SOMAVERT should be stored in a refrigerator at 2 freeze.

# Choosing an injection site

-1 Conce	ntrations
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	17 PATIENT COUNSELING INFOR
_ <b>↓</b> 20 mg/d	Advise the patient to read the FDA-a
200 (%) 150 Higs 50 Higs 50 Higs -50 Burd -50 Burd -50 Higs -100 Higs -50 Higs -200 Higs	<ul> <li>Inform patients (and/or their caregive SOMAVERT:</li> <li>Not to use SOMAVERT if the</li> <li>They will need blood testing SOMAVERT and that the do</li> <li>SOMAVERT has not been sit provider as soon as they are</li> <li>It is not known whether SOW healthcare provider if they pl</li> <li>Pregnancy: Inform female pase <i>[see Females and Males of Rep</i></li> <li>Advise patients (and/or their caregive)</li> <li>The most common reported nausea, and diarrhea.</li> <li>If they have liver test elevation SOMAVERT. Instruct patient become jaundiced.</li> <li>GH-secreting tumors may err carefully and monitored by M.</li> <li>Thickening under the skin massites may prevent or lessen for a lift they have diabetes mellitus oral hypoglycemic agents with</li> <li>If they take opioids, they may suppression.</li> </ul> Advise patients that SOMAVERT is mg, 25 mg, and 30 mg in a sterile gli sterile water (diluent) for injection. A rubber latex. Advise patients to follo shaking may cause denaturation (de Advise patients that the package of prior to use. It should NOT BE FROM
g 5 mL of Sterile Water for Injection,	
2°C to 8°C (36°F to 46°F). Do not	
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**IMPORTANT SAFETY** 

INFORMATION

### **17 PATIENT COUNSELING INFORMATION**

-approved patient labeling (Patient Information and Instructions for Use).

ivers) of the following information to aid in the safe and effective use of

ney are allergic to SOMAVERT or anything in it.

g to check IGF-1 levels and liver tests before and during treatment with lose of SOMAVERT may be changed based on the results of these tests. studied in pregnant women and instruct them to notify their healthcare re aware that they are pregnant.

MAVERT is excreted in human milk and instruct them to notify their plan to do so.

patients that treatment with SOMAVERT may result in unintended pregnancy *eproductive Potential (8.3)*].

ivers) of the following adverse reactions:

adverse reactions are injection site reaction, elevations of liver tests, pain,

ions they may need to have more frequent liver tests and/or discontinue nts to immediately discontinue therapy and contact their physician if they

enlarge in people with acromegaly and that these tumors need to be watched MRI imaging.

nay occur at the injection site that could lead to lumps and that switching this.

us, they may require careful monitoring and dose reductions of insulin and/or while on SOMAVERT.

ay need higher SOMAVERT doses to achieve appropriate IGF-1

s supplied as lyophilized powder in different strengths of 10 mg, 15 mg, 20 glass vial within a package also containing a single-dose flip top vial of Advise patients that the stoppers on both vials are not made with natural low the directions for reconstitution provided with each package including destruction) of the active ingredient (therefore **do not shake**).

of SOMAVERT should be stored in a refrigerator 2°C to 8°C (36°F to 46°F) OZEN.



**P**fizer

Manufactured by **Pharmacia & Upjohn Company LLC** A subsidiary of Pfizer Inc. New York, NY 10001

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This product's labeling may have been updated. For the most recent prese www.pfizer.com.

LAB-0196-23.0



# Choosing an injection site

	PATIENT INFORMATION SOMAVERT (SOM-ah-vert) (pegvisomant)
	for injection, for subcutaneous use
	What is SOMAVERT? SOMAVERT is a prescription medicine used to treat people who have too much growth hormone (acromegaly). SOMAVERT is used to treat people who are not able to be treated or have not already been helped by surgery or
g information, please visit	It is not known if SOMAVERT is safe and effective in children.         Before you use SOMAVERT, tell your healthcare provider about all of your medical conditions, including if you:         • are allergic to pegvisoment or any of the ingredients in SOMAVERT. Do not take SOMAVERT if you are allergic to pegvisoment or any of the ingredients in SOMAVERT.         • have or have had liver problems.         • have or have had liver problems.         • are pregnant or plan to become pregnant while using SOMAVERT.         • are breastheeding or plan to become pregnant while using SOMAVERT passes into your breast milk. You and your healthcare provider shout decide how you will feed your baby if you take SOMAVERT.         • are breastheeding or plan to breast tell its mot known if SOMAVERT.         • are breastheedines provider about all its mot known if SOMAVERT passes into your breast milk. You and your healthcare provider shout all the medicines you take.         • for the breastheedines provider about all its mot known if SOMAVERT may and over-the-counter medicines, vitamins, and herbal supplements.         • south or other medicines used to treat diabetes.         • narcotics (opicid medicines). Your healthcare provider may change your dose of SOMAVERT if you take copiols.         If you are not use, ask your healthcare provider about all the medicines work, and other medicines use ask your healthcare provider south and or information about the right way to use SOMAVERT.         • narcotics (opicid medicines). Your healthcare provider may change your dose of SOMAVERT if you take opiolds.         If you nealt ask your healthcare
	<ul> <li>wheezing or trouble breathing</li> <li>skin rash, redness, or swelling</li> <li>o skin rash, redness, or swelling</li> </ul>
	The most common side effects of SOMAVERT include: • pain • injection site reaction
17	
	18

IMPORTANT SAFETY INFORMATION

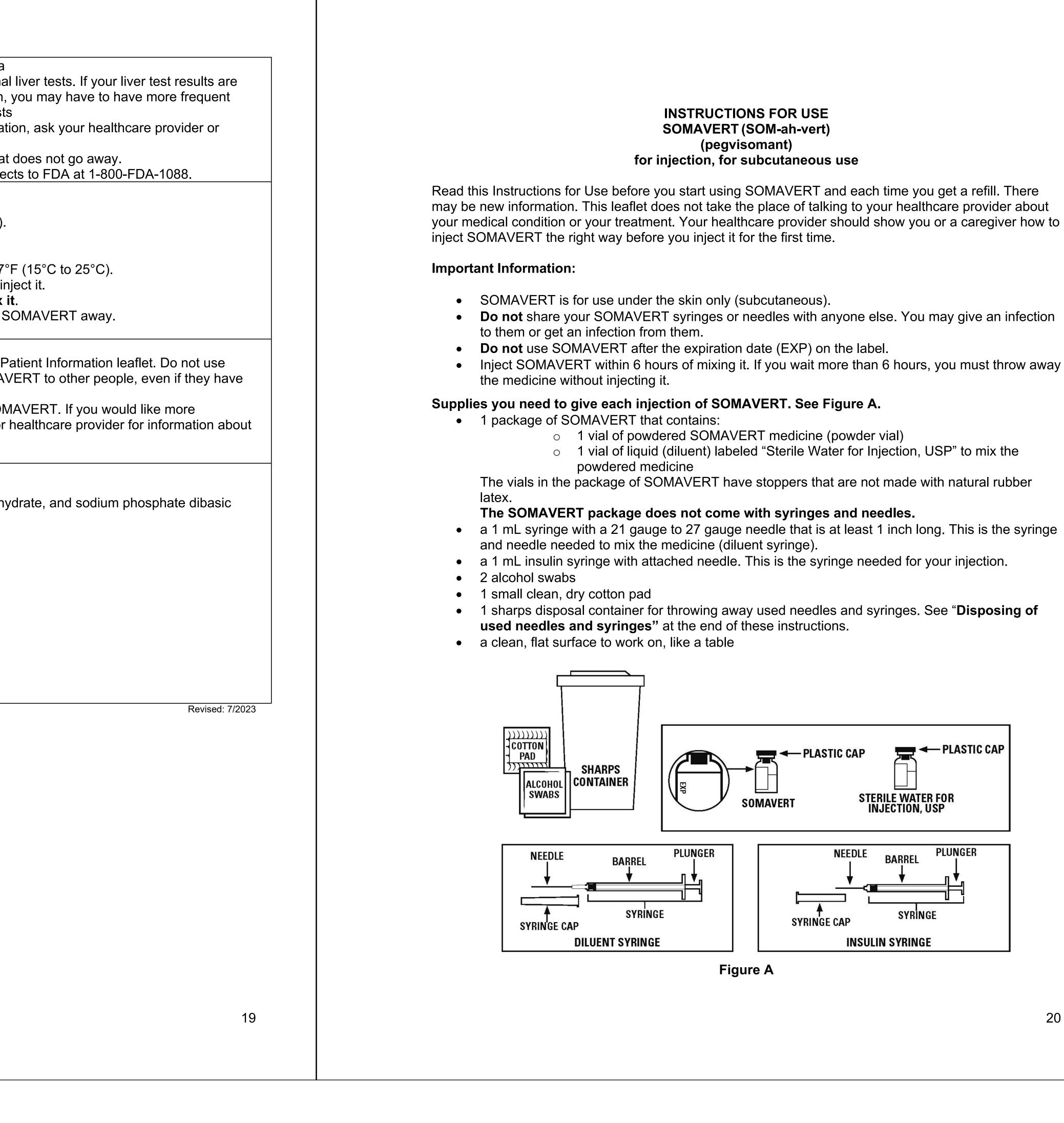
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<ul> <li>flu syndrome</li> <li>too I liver</li> <li>These are not all of the possible side effects of SOMAVERT. For more inforpharmacist.</li> <li>Tell your healthcare provider if you have any side effect that bothers you on Call your doctor for medical advice about side effects. You may report side</li> <li>How should I store SOMAVERT?</li> <li>Before you mix the SOMAVERT powder and the liquid:         <ul> <li>Store SOMAVERT in a refrigerator between 36°F to 46°F (2°C to 8°)</li> <li>Do not freeze SOMAVERT.</li> </ul> </li> <li>After you mix the SOMAVERT powder and liquid:         <ul> <li>Keep the mixed SOMAVERT at room temperature between 59°F to</li> <li>Keep SOMAVERT in a terfrigerator between 30°F to 46°F (2°C to 8°)</li> <li>You must use the mixed SOMAVERT within 6 hours after you</li> <li>If you have not used the mixed SOMAVERT within 6 hours, throw it keep SOMAVERT and all medicines out of the reach of children.</li> </ul> </li> <li>General information about the safe and effective use of SOMAVERT.</li> <li>Medicines are sometimes prescribed for purposes other than those listed in SOMAVERT for a condition for which it was not prescribed. Do not give SC the same symptoms that you have. It may harm them.</li> <li>This Patient Information summarizes the most important information about information, talk with your healthcare provider. You can ask your pharmaci SOMAVERT that is written for health professionals.</li> <li>What are the ingredients in SOMAVERT?</li> <li>Active ingredient: pegvisomant, including polyethylene glycol Inactive ingredient: glycine, mannitol, sodium dihydrogen phosphate mor anhydrous.</li> <li>What are the ingredients in SOMAVERT?</li> <li>Active ingredients: glycine, mannitol, sodium dihydrogen phosphate mor anhydrous.</li> <li>What are the ingredients of the safe andeffective table.</li> <li>New York, NY 10001</li> <li>U</li></ul>	liver re info you or <u>t side</u> C to 8 59°F te ready <b>' you</b> hrow
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## Choosing an injection site



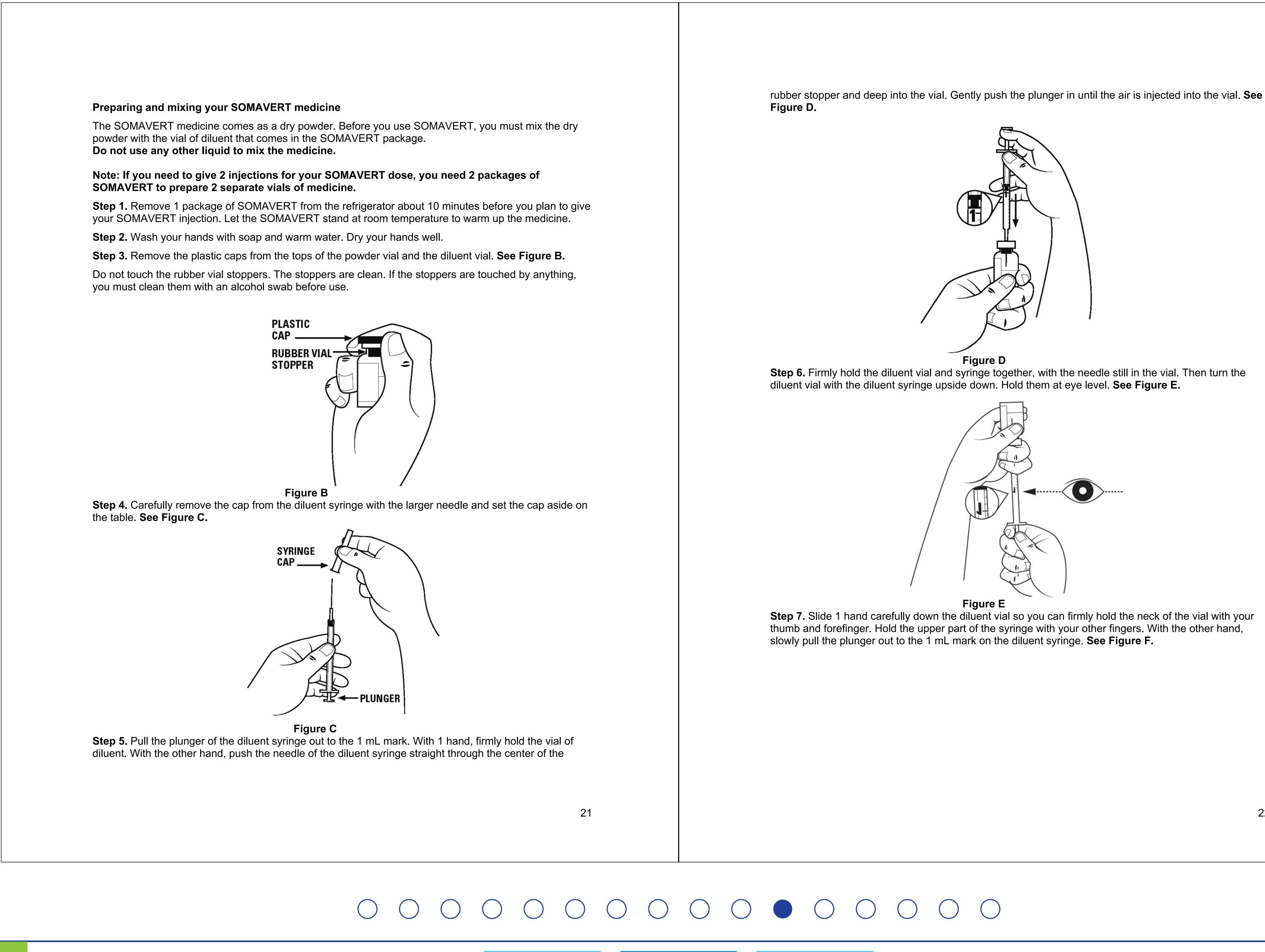
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## Choosing an injection site

## How to mix

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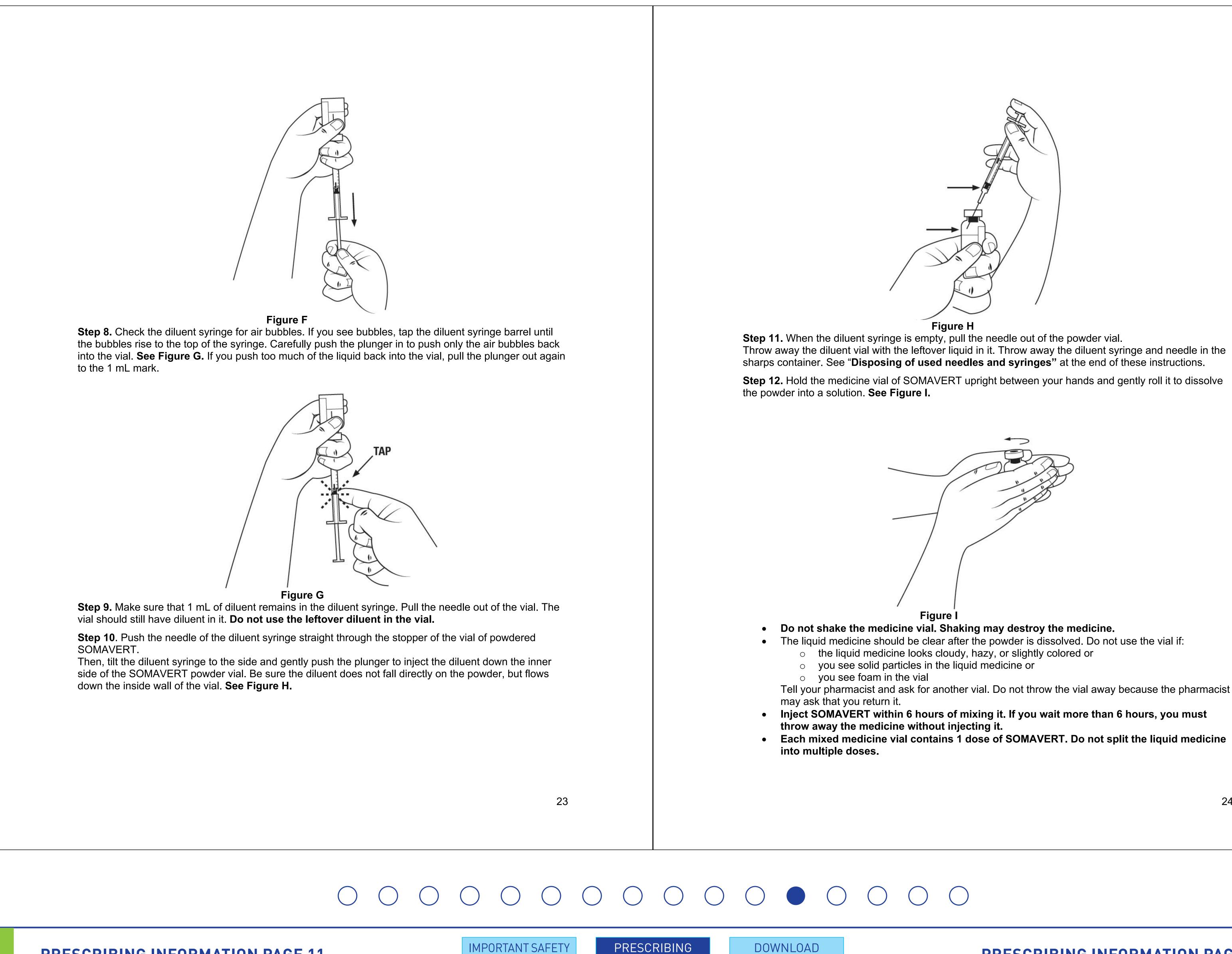
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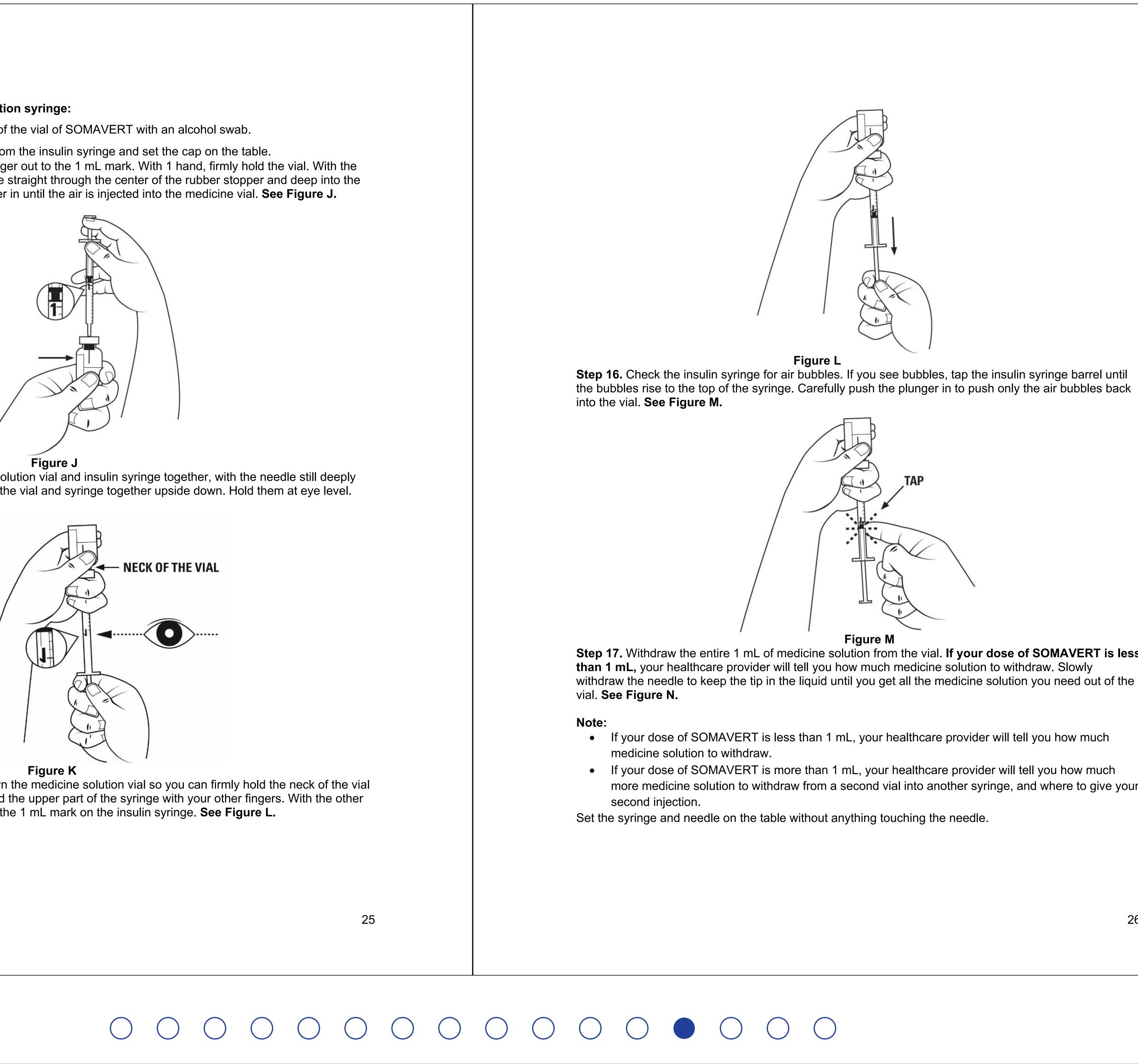
## Choosing an injection site



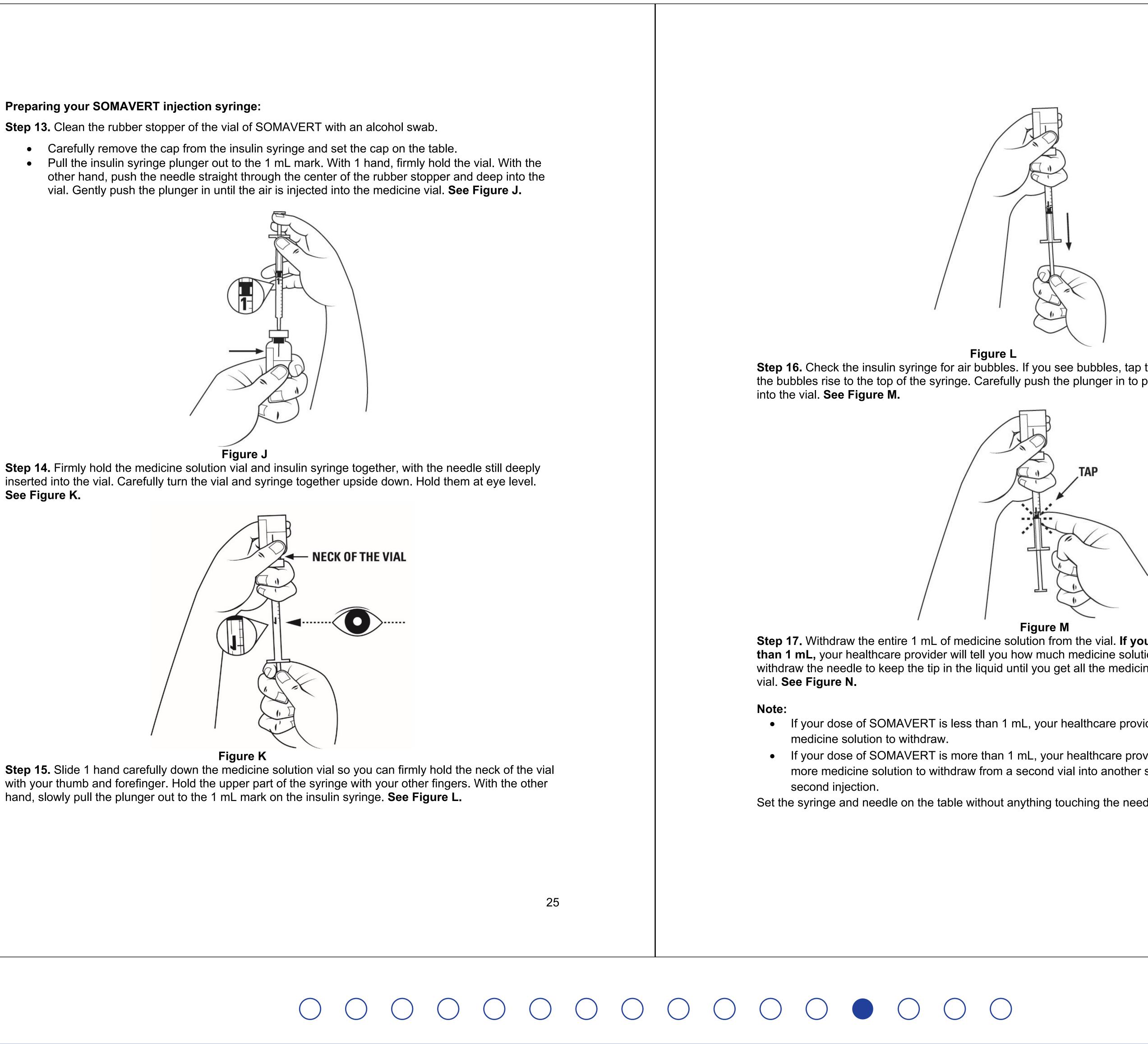
### **Preparing your SOMAVERT injection syringe:**

Step 13. Clean the rubber stopper of the vial of SOMAVERT with an alcohol swab.

- Carefully remove the cap from the insulin syringe and set the cap on the table.



See Figure K.



hand, slowly pull the plunger out to the 1 mL mark on the insulin syringe. See Figure L.

## Choosing an injection site

## How to mix

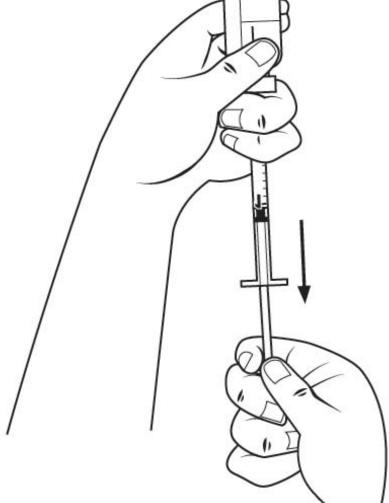
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## How to prepare

## How to inject



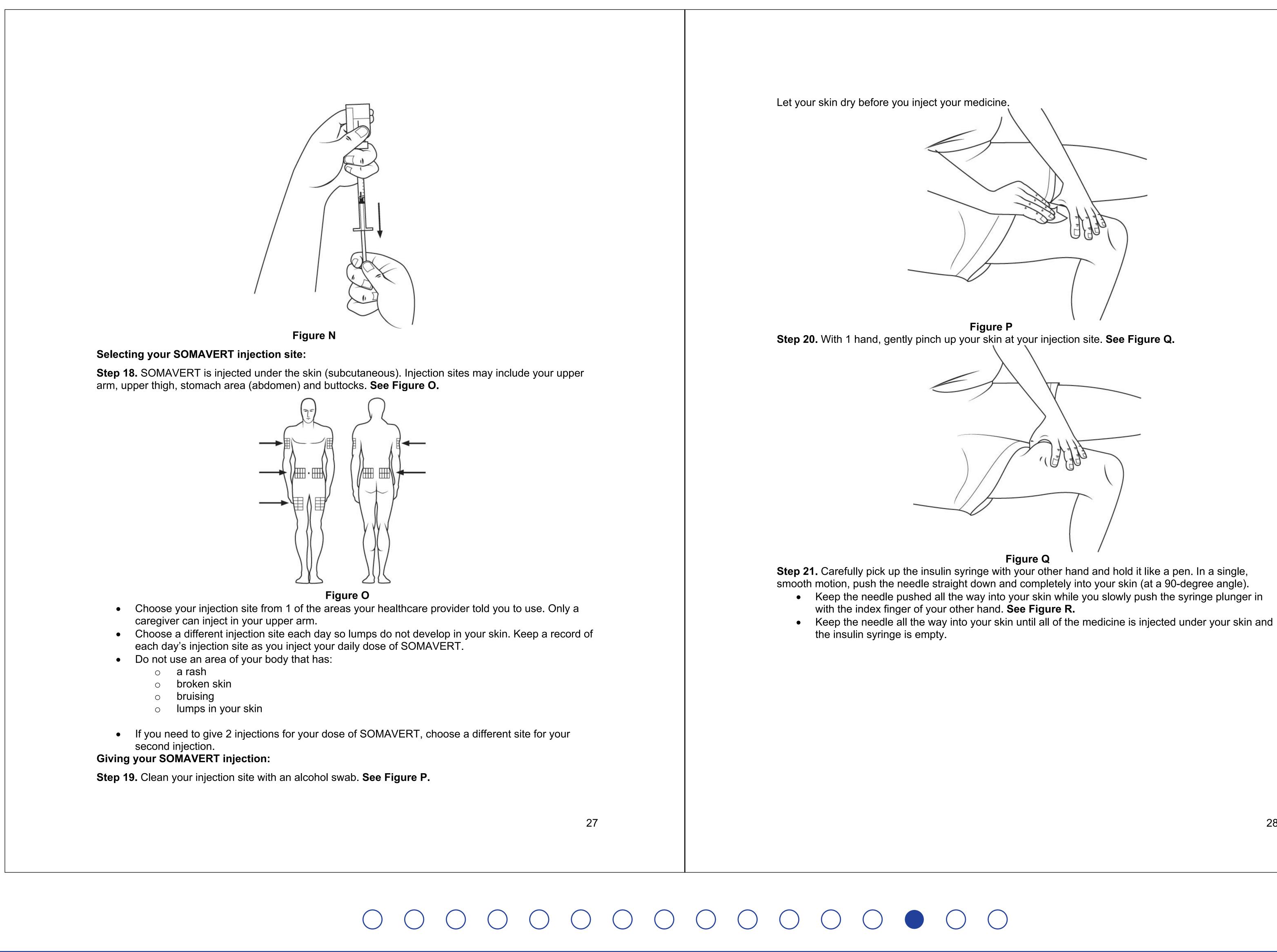
Step 17. Withdraw the entire 1 mL of medicine solution from the vial. If your dose of SOMAVERT is less

more medicine solution to withdraw from a second vial into another syringe, and where to give your

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### **PRESCRIBING INFORMATION PAGE 14**







## Choosing an injection site

## How to mix

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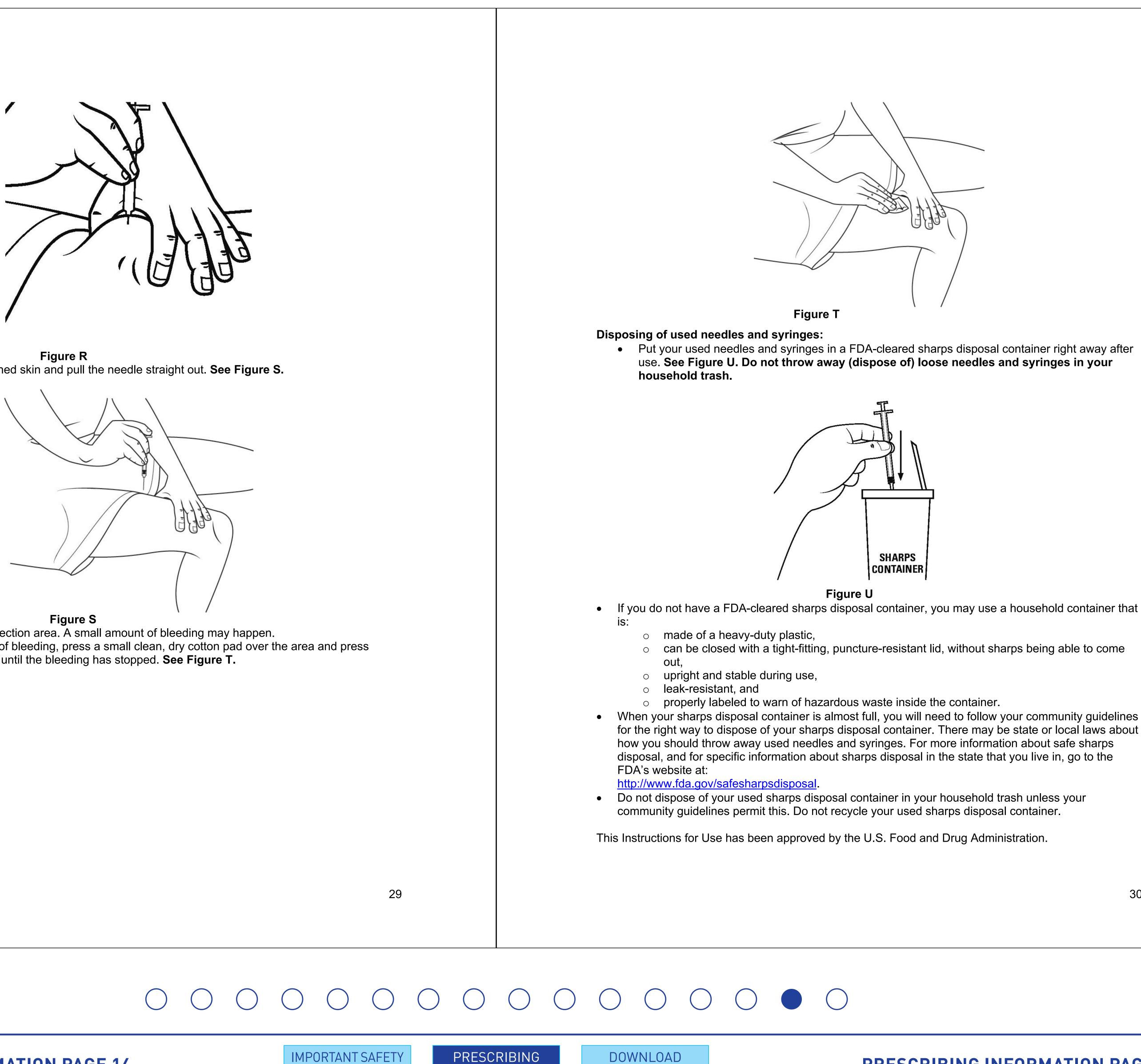
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## How to prepare

## How to inject



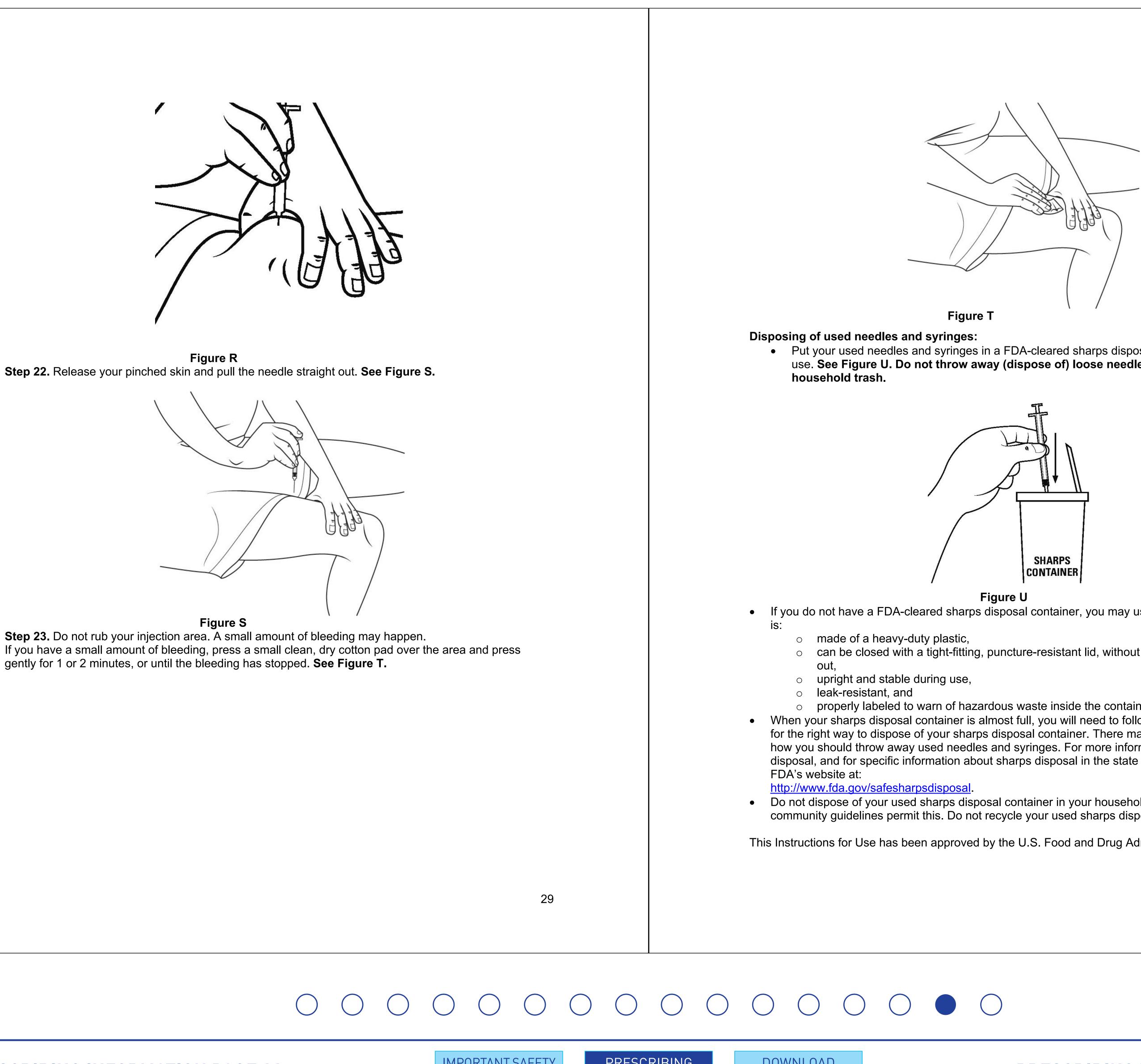


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Step 22. Release your pinched skin and pull the needle straight out. See Figure S.



Step 23. Do not rub your injection area. A small amount of bleeding may happen. gently for 1 or 2 minutes, or until the bleeding has stopped. See Figure T.

## Choosing an injection site

## How to mix

## How to prepare

## How to inject

• Put your used needles and syringes in a FDA-cleared sharps disposal container right away after use. See Figure U. Do not throw away (dispose of) loose needles and syringes in your

o can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come

for the right way to dispose of your sharps disposal container. There may be state or local laws about

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### **PRESCRIBING INFORMATION PAGE 16**



## Before you begin



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## Choosing an injection site

## **P**fizer

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## How to inject







