

**Patient Information**  
**Zorbtive™ (Zorb-tiv)**  
somatropin  
(so-ma-tro-pin)

Read the Patient Information and the Instructions for Injection that comes with Zorbtive™ before you start using it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your doctor or healthcare professional about your medical condition or treatment. If you do not understand the information, or have any questions about Zorbtive™, talk with your doctor or pharmacist.

***What is Zorbtive™?***

Zorbtive™ is a man-made human growth hormone (hGH). Zorbtive™ is similar to the growth hormone your body makes. Zorbtive™ is used to treat Short Bowel Syndrome (SBS) in patients who are on a specialized diet. When used with a special diet, Zorbtive™ may help your bowel take in more water, electrolytes and nutrients and lower your need for I.V. (intravenous) feedings.

Zorbtive™ will not cure Short Bowel Syndrome (SBS). You will need careful medical follow-up and monitoring of your condition while taking Zorbtive™.

Only doctors who treat SBS should prescribe Zorbtive™ therapy.

***Who should not take Zorbtive™?***

**Do not take Zorbtive™ if you:**

- **Have a serious medical condition after having:**
  - Open heart surgery
  - Stomach area (abdominal) surgery
  - An accident
  - Breathing problems (respiratory failure)
  - Have cancer and are getting treatment for it
  - Are allergic to Zorbtive™ or to other growth hormone medicines

The active ingredient in Zorbtive™ is somatropin. The inactive ingredients are sucrose and phosphoric acid. Benzyl alcohol is a preservative in the Bacteriostatic Water for Injection (water for mixing the multi-dose vial of Zorbtive). Ask your doctor or pharmacist for plain sterile water

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for mixing with Zorbtive™ if you are allergic to benzyl alcohol. **Benzyl alcohol can also harm babies.**

Zorbtive™ has not been studied in children under 18 years or in adults over 65 years with SBS.

### **Before taking Zorbtive™, tell your doctor**

- **About all your medical conditions, including if you:**
  - **Have diabetes or blood sugar problems.** You will need to be monitored carefully while taking Zorbtive™
  - **Have high blood pressure**
  - **Have pancreas problems**
  - **Have or had cancer**
  - **Have kidney problems**
  - **Have liver problems**
  - **Have carpal tunnel syndrome** (a problem that causes numbness and tingling in your wrist and hand)
  - **Are pregnant or planning to become pregnant.** It is not known if Zorbtive™ may harm your unborn baby.
  - **Are breastfeeding.** It is not known if Zorbtive™ passes into your milk and if it can harm your baby. Talk to your doctor about the best way to feed your baby while taking Zorbtive™.
- **About all the medicines you take, including prescription and non-prescription medicines, vitamins and herbal supplements.** It is not known if Zorbtive™ and other medicines may affect each other. Know the medicines you take. Keep a list of all your medicines to show to your doctor and pharmacist. Especially tell your doctor if you take medicines for diabetes. The doses of your diabetes medicines may need adjustment if you take Zorbtive™. Tell your doctor if you take other growth hormone medicines.

### ***How should I take Zorbtive™?***

**See the end of this leaflet for detailed Instructions for Injecting Zorbtive™.**

- Take Zorbtive™ exactly as prescribed by your doctor. Zorbtive™ is given by injection under the skin (subcutaneous) every day for four weeks (28 days). Your doctor will tell you how much Zorbtive™ to use, and may change the dose based on how your body responds. Do not change your dose of Zorbtive™ unless told to by your doctor. You must also follow the special diet that your doctor prescribes while taking Zorbtive™. You will be told the amount of food to eat and the times of day that you should eat. Your doctor may adjust your special diet during treatment with Zorbtive™. Do not change your special diet unless you talk with your doctor.

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- Do not inject Zorbtive™ unless your doctor has taught you the right way and you understand everything.
- Change your injection site each time Zorbtive™ is injected. This will lower the chance of getting a skin reaction at the spot where you inject Zorbtive™. Do not inject Zorbtive™ into an area of skin that is sore, red, infected or damaged.
- **Always use a new, unopened, needle and syringe for each injection. Never reuse needles and syringes.** Discard used needles and syringes in a puncture resistant container called a Sharps container, which you can get from your doctor or pharmacist.
- If you miss a dose of Zorbtive™, take it as soon as you remember or are able to take it. If you miss more than 3 consecutive doses, call your doctor for further instructions.
- Do not take more than one dose each day. If you take too much Zorbtive™, call your doctor right away.
- You should have careful monitoring of your condition while taking Zorbtive™. Your doctor may do blood tests and eye tests before you start Zorbtive™ and regularly while you are taking it.
- Treatment with Zorbtive™ may stop if you are put in the hospital for a serious illness, injury or surgery.

### *What should I avoid while taking Zorbtive™?*

- **You should avoid:**
  - Starting any other new medicines unless prescribed by your doctor.
  - Making changes to the other medicines you take unless prescribed by your doctor.
  - Drinking water, soda, fruit juices. You must be careful about the liquids you drink. Your doctor will tell you which liquids are okay to drink.
  - Drinking alcoholic beverages. Irritation of your stomach may result after drinking alcoholic beverages and may make your SBS worse. Also, alcoholic beverages may interact with medications you are already taking.

### *What kind of food should I eat during my treatment with Zorbtive™?*

- Your doctor will prescribe for you the types and amounts of foods you should eat during your treatment with Zorbtive™. These foods are not special and can be purchased from your local market. Your likes and dislikes will also be taken into consideration when your eating plan is created.
- Your eating plan will consist of carbohydrates (about 50-55% of your total food for the day), protein (about 20% of your food for the day) and fat (about 25-30% of your food for the day). Good carbohydrates for you to eat are rice, potatoes, pasta, cereal and grain products; simple sugars should not be eaten very often. Good proteins for you to eat are chicken, fish

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and turkey; high fatty meats like steak and pork should be avoided. Fats such as soybean oil and safflower oil are good to include in your meals.

- Your doctor will advise you on how many times a day you should eat; often more smaller meals throughout the day are better than 2-3 large meals. Your diet will be adjusted during your treatment with Zorbtive™ as your doctor finds necessary. It is important that you keep to the eating plan your doctor gives to you.

### *What are the possible side effects of Zorbtive™?*

#### **Zorbtive™ can cause serious side effects including:**

- **Allergic reactions** including trouble breathing, hives and skin that becomes red and warm all over the body. Stop Zorbtive™ and get emergency medical help right away if you get any of these symptoms.
- **Pancreatitis.** The pancreas is a large gland that is behind the stomach. Zorbtive™ can cause sudden pancreatitis attacks. Symptoms of sudden pancreatitis include severe pain in the upper stomach area, swollen and tender stomach area, sweating, nausea, vomiting, fever, skin and whites of the eyes turn yellow, and a fast heart beat.
- **Diabetes or blood sugar problems.** Zorbtive™ can cause new diabetes or blood sugar problems that do not go away when Zorbtive™ is stopped. Zorbtive™ can worsen the diabetes and blood sugar problems you already have. Your diabetes medicines may need to be adjusted while you are taking Zorbtive™.
- **High blood pressure in your brain** (intracranial hypertension or IH). IH can cause headaches, vision changes, swelling of the eye nerve, nausea and vomiting. Your doctor may check your eyes before and during treatment with Zorbtive™.
- **Muscle or joint pain, swelling or stiffness.** Do not take any pain medicine unless your doctor tells you to.
- **Carpal tunnel syndrome** (a problem that causes numbness and tingling in your wrist and hand)

#### **Call your doctor right away if you get any of the following symptoms while taking Zorbtive™:**

- Tingling feeling in your hands or wrists
- Increased thirst, increased urination or dizziness
- Swelling of the head, face, hands or feet
- Unusual headaches, problems with eyesight, nausea and vomiting

**Zorbtive™ may also cause nausea, vomiting, stomach pain and gas.** These symptoms may be caused by your SBS or by your treatment with Zorbtive™. Talk to your doctor if you get these symptoms. Your doctor may prescribe medicine to help with these symptoms. It is important for you to follow your special meal plan.

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**Reactions at the injection site.** Soreness, redness, rash, skin bumps, itching, pain, bruising or swelling may happen at the place of injection. Changing your skin injection site each time may lower the chances for these side effects.

These are not all the side effects of Zorbtive™. For more information, ask your doctor or pharmacist.

### ***How Do I Store Zorbtive***

- Store unmixed vials of Zorbtive™ and sterile water at room temperature 59° to 86°F (15° to 30°C)
- If mixing the medicine with plain Sterile Water for Injection, USP, mix and use it right away and discard any unused medicine.
- If mixing the medicine with Bacteriostatic Water for Injection, USP (0.9% Benzyl Alcohol), the mixed medicine can be stored refrigerated at 36° to 46°F (2° to 8°C) for up to 14 days (2 weeks). After refrigeration, small particles may be present. This is not unusual for proteins like Zorbtive™. Do not freeze the mixed medicine. Allow the medicine to warm to room temperature before using.
- Safely throw away medicine that is out-of-date or no longer needed. The expiration date is printed on the vial label and the carton.

Keep Zorbtive™ and all medicines out of the reach of children.

### ***General Information About Zorbtive™***

Medicines are sometimes prescribed for conditions that are not mentioned in the patient information leaflets. Do not use Zorbtive™ for a condition for which it was not prescribed. Do not give Zorbtive™ to other people, even if they have the same symptoms you have. It may harm them.

This leaflet summarizes the most important information about Zorbtive™. If you would like more information, talk with your doctor. You can ask your pharmacist or doctor for information about Zorbtive™ that is written for health professionals. For more information, you may call Serono's Patient Helpline, SeroCare at 1-800-714-2437.

### ***Instructions for Preparing and Giving Yourself an Injection of Zorbtive™***

This section explains how to give yourself a Zorbtive™ injection. Zorbtive™ injections can be fairly easily given because Zorbtive™ is injected under the skin (subcutaneously). You may already be taking other medications this way.

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**WARNING:** DO NOT self-administer until you receive proper injection training from your health care professional.

### ***Zorbtive™ Vials and Diluent***

Zorbtive™ multiple-dose packaging includes seven vials of Zorbtive™, 8.8 mg strength, and seven vials of sterile water preserved with benzyl alcohol, labeled ‘Bacteriostatic Water for Injection.’ Patients allergic to benzyl alcohol should not use this bacteriostatic water and should inform their doctor. Benzyl alcohol can also be harmful to newborns.

### ***Supplies Needed for Taking Zorbtive™***

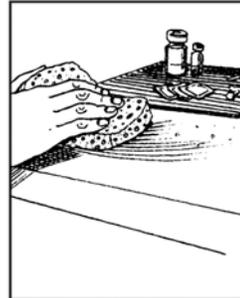
Along with the Zorbtive™ vials and diluent, your prescription included two kinds of syringes. A 3 cc syringe, with a large, 1-inch needle, is used for mixing the medication. The second, 1 cc syringe, has a small 29-gauge needle, and it is used for injection. Before you take the medication, you will also need cotton balls, alcohol swabs and a sharps disposal container.

You will take Zorbtive™ daily. Always start with new, unopened sterile syringes and needles. **Never reuse syringes and needles.**

**Instructions for Preparing and Giving Yourself an Injection of  
Zorbtive™ [somatropin (rDNA origin) for injection]**

***I. PREPARATION***

- **Step 1. Gather Your Zorbtive™ Injection Supplies.**
- **Step 2. Clean the Work Surface.**
- **Step 3. Wash Your Hands.**

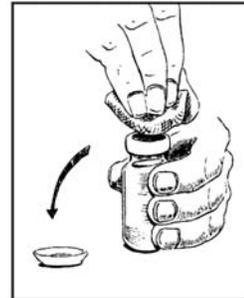


Use soap and water. If someone else is giving the injection, they should put on a pair of disposable gloves now.

***II. RECONSTITUTION***

- **Step 4. Remove Flip-Tops from Drug and Sterile Water Vials.**

Throw the tops away. Clean both rubber stoppers with a fresh alcohol swab. Do not touch the vial tops with your hands or gloves.



- **Step 5. Prepare Larger Needle and Syringe.**

Unwrap the larger needle and syringe, used for mixing the diluent with Zorbtive™. Pull back the plunger to the amount of diluent designated by your doctor. Do not touch the exposed plunger. Remove the plastic tip protector from the needle.



- **Step 6. Fill the Syringe with Sterile Water.**

Place the vial of **sterile water** on your clean work surface. Push the needle straight down through the middle of the rubber stopper on top of the vial. Push the syringe plunger all the way down; this will push air into the vial. You will feel a little pressure.

While holding the plunger down, pick up the vial with your other hand, and turn it upside down. Now, slide the needle tip below the level of water in



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the vial. Release the plunger. The syringe barrel fills up with water by itself. You can help it along by pulling back on the plunger until it reaches the desired mark on the syringe barrel.

If air bubbles get in, tap the syringe barrel with your fingertips, then gently push the plunger in to move the air bubbles back into the vial. When you have the desired amount of water in the syringe and no air bubbles, wiggle the vial off the needle. Be careful not to touch the needle tip. Do not put the syringe down.

Now, you are ready to mix the sterile water with the drug in the **Zorbtive™** vial. At this point, you should be holding the needle and syringe containing sterile water without any air bubbles.

- **Step 7. Slowly Inject the Sterile Water Against the Inner Wall of the Zorbitive™ Vial.**

With the vial of **Zorbitive™** on your clean surface, push the needle, at a slight angle through the rubber stopper, all the way into the top of the **Zorbitive™** vial. The needle tip should rest against the vial wall. Push the syringe plunger gently and slowly, allowing the water to flow down the side of the vial. Avoid squirting the water directly onto the pellet, which will make the drug solution foamy and hard to use.



- **Step 8. Gently Swirl Zorbitive™ Vial to Mix.**

Keep the needle in the vial, steadying it with one hand. Hold the drug vial in your other hand. Move the drug vial in slow, gentle circles to mix the water and the drug together. Do not shake or turn the vial upside down.

Look inside the drug vial. You should see a clear liquid. If you see any powder, keep moving the vial in circles until it disappears.

Note: If you shook the vial too much and the liquid is foamy, let it sit for a few minutes until the bubbles disappear.



**Remove the needle and syringe from vial and discard in your sharps disposal container.**

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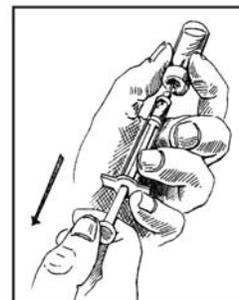
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### III. PREPARING THE ZORBTIVE™ INJECTION

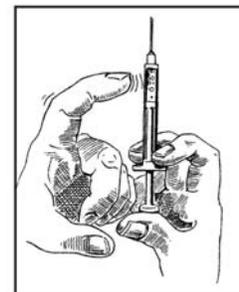
- **Step 9. Using the Smaller Needle and Syringe, Draw Up Prescribed Dose.**

Insert the **smaller needle** and syringe into the **Zorbtive™** vial. Turn the vial upside down. Make sure the needle is below the fluid level. Pull back on the plunger to fill the syringe barrel with the designated dose as specified by your physician. **DO NOT PULL THE PLUNGER OUT OF THE BARREL.** Wiggle the vial off the needle. Do not touch the needle tip with your hands or gloves. Keep the syringe in your hand.



- **Step 10. Remove Air Bubbles.**

Hold the syringe straight up and down with the needle toward the ceiling. Look at the liquid in the syringe to see if there are any air bubbles. Tap the side of the syringe with your fingertips to loosen any stuck air bubbles. They will float to the top of the liquid.



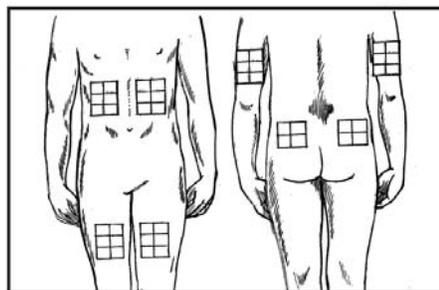
Push the plunger gently to remove any air in the syringe barrel and needle. Recap the needle. Carefully lay the syringe on a flat, clean surface. Do not touch the needle or allow the needle to touch any surface.

### IV. GIVING YOURSELF THE INJECTION

- **Step 11. Pick an Injection Site.**

Find an area on your body that makes it easy for you to give the injection. The best sites for giving an injection are those areas with a layer of fat between the skin and muscle, like your thigh or upper arm.

Do not inject in the areas near your navel or waistline. If you are very thin, the outer thigh or upper arm may be best. Do not inject **Zorbtive™** into an area on your body where the skin is irritated or abnormal in any way.



Most people find the top of the thigh works best. Change the injection location each day to minimize discomfort.

Take an alcohol swab and carefully clean a four-inch square area of skin where you plan to inject. Let the skin dry by itself.

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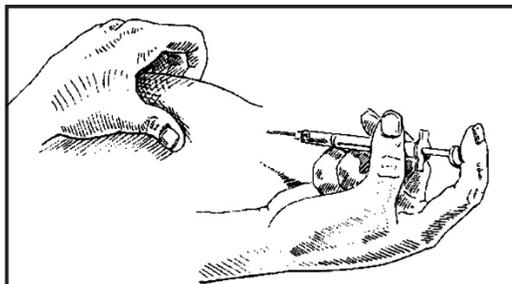
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- **Step 12. Pinch Skin and Inject Zorbtive™.**

Take the cap off the needle. Pinch up a three-inch fold of just-cleaned skin, using your thumb and index finger. A three-inch fold is about as wide as four of your fingers placed together.

Hold the syringe like a pencil and swiftly slide the needle, bevel side up, just under the skin at a slight angle.



After the needle is in, release your hold on the pinched skin and inject the drug using a slow, steady push on the plunger until all the medication is injected and the syringe is empty. After you've emptied the syringe, pull the needle straight out of the skin.

Apply gentle pressure with a dry cotton ball or sterile gauze. Applying a cold compress or ice pack to the injection site may help reduce skin reactions. Put a small adhesive bandage strip over the injection site, if desired.

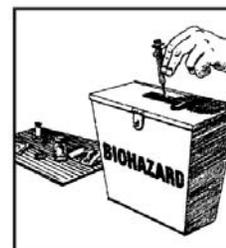
- **Step 13. Clean Up and Put Away Supplies.**

Do not recap the injection needle. Discard the whole syringe and needle into the sharps disposal container, along with any used gauze patches, sterile wipes and gloves.

After two hours, check the injection site for redness, swelling, or tenderness. If you have a skin reaction that does not clear up in a few days, contact your doctor or nurse.

Always keep your sharps disposal container out of the reach of children. **DO NOT** throw the needle and syringe in the household trash or recycle.

Save any unused portion of the medication remaining in the vial and store in the refrigerator until your next dose. On the next dose, reconstitute a new vial of Zorbtive™. Then, draw up the remaining medication from the refrigerated vial, emptying the vial. Draw up the balance of prescribed dose from the new vial, until dose amount is reached.



**For instruction assistance, call SeroCare® , Serono's Patient Helpline,  
at 1-800-714-2437.**

**For further information, please refer to Zorbtive™ Patient Handbook .**

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This Patient Package Insert has been approved by the U.S. Food and Drug Administration.

For further information, you may call Serono's Patient Helpline, SeroCare at 1-800-714-2437.

Manufactured for:  
Serono, Inc.  
Rockland, MA 02370

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