There are certain things you can do to lower your chance of getting an infection. Below, we give some guidelines for you to follow. Your transplant team may give you more instructions or changes to the guidelines below. Always follow your transplant team’s instructions.

**Personal hygiene**

While you’re recovering from your transplant, it’s very important to keep yourself clean. Doing this can help prevent infection. Follow the guidelines below.

- Shower or bathe every day.
  - Use a mild soap, such as Dove® or Caress®. Don’t use Ivory® or a deodorant soap. They can dry out your skin.
  - Be sure to wash your underarms and groin.
  - Use a washcloth and towel that are only for your personal use.
  - If your skin is dry, don’t use very hot water. Apply baby oil or a skin moisturizer, such as Eucerin® or CeraVe®. Put it on after you bathe, while your skin is still damp. Gently pat your skin dry with your towel. Don’t use lotions containing alcohol. They’ll make your skin more dry.
- Limit your time in direct sunlight. Your skin will be more sensitive and may burn more easily after your transplant. The medications you’re taking may add to this.
Whenever you’re in the sun, protect your skin with a sunblock that has an SPF of at least 30. Reapply it often.

If you’ll be in direct sunlight for 20 minutes or longer, cover your skin with cotton clothing and a protective hat. Being in the sun for a long time may also reactivate cold sores (herpes simplex virus).

- You can wear contact lenses, but make sure that they’re cleaned well before you put them in. Don’t reuse cleaning solution. Be sure to throw cleaning solutions away when they expire. If your eyes are dry, use moisturizing drops.

- You can wear makeup, but buy all new products after your transplant.

- New nails will grow and replace your old nails. This will happen gradually over 3 to 4 months after your transplant. Don’t get a manicure or pedicure in a nail salon while your immune system is still recovering. You can do this at home with your own equipment.

- If you still have a tunneled catheter, don’t let it soak in water while you bathe. Read the resource About Your Tunneled Catheter (www.mskcc.org/pe/about_tunneled_catheter) for more information.

- Don’t get body piercings or tattoos after your transplant. These increase your risk of hepatitis and other infections.
Hair usually starts to grow back about 3 months after the transplant. It’s possible that your hair may grow back with a different texture. Although it’s rare, hair loss can happen months or years after the transplant.

**Mouth care**

Keep taking care of your mouth the same way you did while you were in the hospital. Your healthcare team will tell you when you can start using an ultra soft toothbrush. This will be when your absolute neutrophil count (ANC) is higher than 500 (sometimes called 0.5) and your platelet count is 20,000 (sometimes called 20) or higher.

Ask your doctor or dentist when you can floss and brush your teeth with a regular toothbrush.

If you wear dentures, keep them clean to keep from getting an infection. Soak them every day in any type of denture cleaner. Use the directions on the product. Then, rinse them well with tap water. Your dentures may need refitting after your transplant.

If any of your medications are mouth rinses, take out your dentures before rinsing or swishing the medication. This will help the medications work better and will keep your mouth from getting infected again. Tell your doctor or nurse if you have pain or discomfort in your mouth.

You may have mouth dryness for 3 to 4 months or longer after
your transplant. Don’t use store-bought, alcohol-based mouthwashes or hydrogen peroxide. They’ll dry and irritate your mouth. Instead, use a mild salt water rinse. Make it by mixing together:

- ½ teaspoon of salt
- ½ teaspoon of baking soda
- 8 ounces of water

Your dentist may prescribe other rinses. Sucking on sugarless candy or lozenges may also help.

Your salivary glands may not be as good at washing bacteria from your mouth after your transplant. This increases your risk of cavities. Use a toothpaste with fluoride. You can also use a mouthwash with fluoride once your mouth has fully recovered and is no longer very dry. Swish the mouthwash around in your mouth for at least 1 minute, then spit it out. Don’t rinse.

**Caring for your tunneled catheter**

It’s just as important to keep your tunneled catheter clean after you leave the hospital as it was while you were in the hospital. If you leave the hospital with a tunneled catheter, your nurse will teach you how to care for it at home. You’ll have a chance to practice with the nurse watching.

Call your doctor’s office right away if:
• You have redness, swelling, or drainage around the area where the catheter exits your body
• Your needleless connector falls off
• You have a fever of 100.4 °F (38 °C) or higher or chills
• You have a break or leak in your catheter
• You have an unexplained problem with your catheter

**Your home environment**

• Keep your home as free of dirt and dust as possible. But, don’t go to extremes. For example, don’t repaint your walls or put down new carpets.

• Don’t be around any renovations or construction until your transplant team tells you it’s okay. This includes those in process and those done within the past 3 months.

• Stay out of musty areas where mold might grow, such as a damp basement. You can use an air filtration system in your home, but you don’t need to.

• **Don’t use a humidifier.** Bacteria and mold grow easily in it. A pan of water placed near a heat source may help in the winter. **If you do this, change the water every day.**

• In general, try not to do any chores like dusting or vacuuming for the first 3 months after your transplant. Depending on your energy level, it’s fine for you to cook, wash dishes, or iron.
- Keep your bathroom very clean, especially the tub and toilet. Make sure it’s cleaned with a disinfectant regularly. It’s best for someone else to do this chore.
- Wash your eating utensils, towels, and linens carefully. They don’t need to be washed separately from the rest of your household.
  - Thoroughly wash all forks, spoons, and knives with hot water and dishwashing detergent or use a dishwasher.
  - Wash towels twice a week and bed linens once a week. Use only your own towels and washcloths, not those of your family members.
- You can have household plants in your home. But, for the first few months after your transplant:
  - Don’t touch the soil from household plants unless you wear gloves and a mask.
  - Don’t touch the water in a vase of flowers. Someone else should change the water in the vases daily.

**Pets**

Animals can carry diseases. They may put you at greater risk for infection while your immune system is recovering. You can have a pet in your home and touch it, but it’s best that you don’t have close physical contact. For example, don’t hold the animal in your lap. Don’t touch the animal’s saliva or feces. Be sure to protect
yourself from bites or scratches.

Don’t handle or care for birds, lizards, snakes, turtles, hamsters, or other rodents while you’re recovering. If you have an aquarium and need to clean it yourself, protect yourself by wearing gloves.

If you have a cat or dog at home, follow the additional guidelines below until your doctor gives you other instructions.

- Make sure your pet is up-to-date with immunizations and booster shots.
- Have your veterinarian check your pet’s stool for parasites every year.
- If you have a cat, get it tested for feline leukemia and toxoplasmosis every year.
- Have your pet treated for fleas. If your pet walks through wooded areas, have it screened for ticks every day during tick season (May to November). Talk with your pet’s veterinarian about using a flea and tick collar.
- Don’t clean cat litter boxes or clean up after your dog. Have someone else do these things for you.
- Keep your pets indoors or on your own property whenever you can. This is to help keep them from picking up diseases from other animals.
• Don’t allow pets in your bed.

• Outside of your home, avoid close contact with animals in a farm or a petting zoo.

If you plan to get a pet after your transplant, it’s best to choose a healthy dog or cat that’s more than 1 year old. Have it spayed or neutered.

**Family and visitors**

You can have close physical contact with people in your immediate family. However, don’t have close contact with someone who has a cold or any signs of being sick. Wear a mask if you must be in the same room with someone who’s sick. Your family members and close friends should get a yearly flu shot.

You can have visitors, but limit them to small groups. Don’t visit with anyone who has:

• A cold.

• Chickenpox.

• Recently been exposed to chickenpox.

• Recently been exposed to the herpes simplex virus (the virus that causes cold sores and genital sores).

• Recently been exposed to shingles.

• Recently been exposed to any other type of virus or infection.

• Recently received a vaccine with a live virus, such as varicella
(the chicken pox virus) or rotavirus. There are very few of these, but if someone in your household needs one, tell their doctor that you’re immune suppressed and live in the same household.

**Call your doctor right away if you or any other family member is exposed to chickenpox, shingles, measles, or German measles (rubella).**

**Outside your home**

Take regular walks outside, but avoid dirty areas and construction sites. Walking is an excellent way to regain your strength and endurance. However, during the first few months after your transplant, avoid the following places when they’re crowded:

- Supermarkets
- Shopping malls
- Movie theaters
- Schools
- Restaurants
- Public transportation
- Places of worship (such as churches, synagogues, and mosques)

You can go to these places at off-peak hours when there are fewer people.
Avoid taking public transportation (such as a train or bus) for at least 3 months after your transplant. We understand you may need to take a taxi, car service, or other transportation such as Access-a-Ride to return for follow-up visits. We recommended that you wear a mask when traveling by this means.

You can swim in the ocean after you regain your strength and are more active. Pay attention to alerts from the local health department. You can also swim in a private pool that isn’t crowded. Make sure that the pool is chlorinated. Don’t swim in lakes, rivers, or public or crowded pools until your immune system has recovered. Don’t swim if your tunneled catheter is still in place.

Your doctor will tell you when some or all of these restrictions can be lifted.

**Bleeding**

Platelets are blood cells that help form clots and control bleeding. When your platelet count is low, you’re at risk for bleeding. You may be discharged with a low platelet count. It can take weeks or months for your body to make normal numbers of platelets. You may need to have platelet transfusions.

Signs of a low platelet count include skin changes, bleeding, or both. Skin changes may include a lot of bruising or petechiae (peh-TEE-kee-ee). These are tiny, purplish-red spots on your skin
that don’t disappear when you press them. You may see them on your lower legs or the insides of your ankles. Other symptoms of a low platelet count may include bleeding from your gums or nose.

If you go home with any of these symptoms and they increase in amount or frequency, call your doctor. If you haven’t had any of these symptoms and they suddenly appear, call your doctor. It may mean that your platelet count has changed.

If you have an injury that causes bleeding, don’t panic. Stay calm and follow the guidelines below for the type of injury.

- **Open wounds:** If you cut yourself, put a clean, dry gauze pad, towel, or cloth over the cut. Press it firmly. Keep pressing until the bleeding stops. If the bleeding doesn’t stop, elevate the wound. For example, raise your arm or prop up your feet. Apply ice to the wound and call your doctor.

- **Nosebleeds:** If you have a nosebleed, sit up and lean forward slightly. Don’t tilt your head back. Squeeze the bridge of your nose firmly between your thumb and forefinger for at least 10 minutes without letting go. If the bleeding doesn’t stop, keep squeezing your nose. Apply a small bag of ice to the bridge of your nose until the bleeding stops. If the bleeding continues longer than 30 minutes, call your doctor.

- **Accidents:** If you’re in an accident, you may need blood or blood products. They should be irradiated to 3,000 rads. This
is to keep transfused blood from causing GVHD.
- Wear your MedicAlert jewelry at all times. It gives the doctor who will be treating you this information.
- If you’re admitted to another hospital, have the doctor call Memorial Sloan Kettering (MSK) right away for guidelines on blood products.

If your platelet count is below 50,000 (50), follow the guidelines below.

- Use an electric razor when shaving.
- Use a soft-bristle toothbrush or an oral irrigator such as a WaterPic® to keep your gums from bleeding. Don’t use dental floss.
- Don’t take aspirin, products that have aspirin, or nonsteroidal anti-inflammatory drugs (NSAIDs) such as ibuprofen (Advil®) or naproxen (Aleve®). For more information, read the section “Common Medications to Avoid.”
- You can blow your nose, but don’t blow it forcefully.
- If you’re constipated, call your doctor. You may need more fiber in your diet or a stool softener.
- Avoid activities or sports that can cause injury. If you have questions or concerns about this, talk with your doctor.
Resuming Your Activities

Daily activities

The time it takes to recover after a transplant varies. It usually takes about 3 months, but it’s also normal to take more or less time.

The time after your transplant is a time of cell recovery and growth. The cells in your mouth, stomach, intestine, hair, and muscles will all regrow. This requires calories and energy. You may feel more tired than you expected. Remember, this fatigue and weakness is normal. Each week, you should feel stronger.

Around the 3rd month after your transplant, your hair will start growing more quickly. You may feel well enough to start going back to your usual level of activity. From this point on, you’ll probably feel better and better. For most people, however, the first 2 to 3 months to 1 year after transplant remain a time of recovery.

Exercise

It will probably take time for you to regain your strength. It may be helpful to follow a regular exercise plan. When you start to exercise, start with easy exercises. Your physical therapist can help you decide what type of exercise is right for you. As you feel ready, ask your doctor how to increase your exercise.

Don’t play contact sports or ski until your platelet count is over
100,000 (100). Don’t swim if your tunneled chest catheter is still in place.

**Hobbies**

Some hobbies, such as woodworking, painting, and model building, use products that can be toxic. Always work in a room with plenty of fresh air. Keep the windows open. Use nontoxic paints and glue. If you have questions or concerns about resuming any of your hobbies, ask your doctor.

**Returning to school or work**

The earliest you can go back to school or work is 2 to 4 months from the time of your transplant. This time frame can vary from person to person and depends on many things.

You may feel ready to return right away, or you may be worried about returning after being away for so long. It may help to start slowly. For example, start with a schedule of half days or 3 days a week. Most people tell us that thinking about returning is almost harder than actually doing it.

Making the transition back to your usual lifestyle can be hard. It may take time to get used to changes in the way you look. Hair loss, for example, is very hard for many people. Or, you may have trouble concentrating or maintaining your attention span. You may not be able to keep up your former pace. Your transplant team is here to talk with you about going back to school or work. You can speak to a social worker, nurse, psychiatrist, or your
doctor. We can work with you to find ways to make your transition easier.

**Traveling**

For the first 3 months after the day of your transplant, stay within about 1 hour of MSK.

If you plan to travel by plane, talk with your transplant team. You must have a high enough platelet count to safely travel by plane.

If you plan to travel out of the country during the first 2 years after your transplant, talk with your transplant team. They may recommend that you see an expert in travel medicine to reduce your risk of infection while abroad, depending on your destination.

**Sexual Health**

Before you go home, ask your doctor about resuming sexual activity. It’s important for you and your partner to have answers to your questions. If new questions come up, you can discuss them during your follow-up visits.

**Protecting yourself during sexual activity**

Until your doctor tells you that your blood counts and immune system have recovered, follow these precautions:

- While your platelet count is under 50,000 (50), don’t have sex that involves penetration or contact with mucous membranes.
This includes vaginal, oral, and anal sex or inserting fingers, vibrators, or other sex toys into your vagina or anus.

- Use latex condoms each time you have vaginal, oral, or anal sex. If you’re allergic to latex, talk with your healthcare provider. Remember, don’t have vaginal, oral, or anal sex or sex that involves penetration until your platelet count is above 50,000 (50).

- Use a barrier device (condoms or dental dams) anytime your partner’s vaginal secretions or semen could enter your mouth.

- Don’t take part in any sexual activity that could expose your mouth to feces.

- Don’t have sex that involves contact with mucous membranes if you or your partner have a genital infection or think you might have one.

- Use birth control (contraception) so that you don’t get pregnant. If you’d like to get pregnant in the future, talk with your doctor.

Hugging, cuddling, gentle touching, and kissing skin are other ways you can be intimate with your partner during this time. For more information about being sexually active during and after treatment, read the following resources:

- *Sex and Your Cancer Treatment*
  (www.mskcc.org/pe/sex_cancer_treatment)
• Sexual Health and Intimacy
  (www.mskcc.org/pe/sexual_health_intimacy)

You can find them online, or you can ask your nurse.

The American Cancer Society (ACS) also has resources on sexuality following cancer treatment. They’re available for free from your local ACS or on the ACS website at the links below.

• Sex and the Adult Male With Cancer
• Sex and the Adult Female With Cancer

Information for women
After your transplant, you may have:

• Fewer menstrual periods
• No menstrual periods
• Dryness and discomfort of your vagina and vulva (the area outside your vagina)

Vulvovaginal moisturizers can help relieve dryness and discomfort of your vagina and vulva. They don’t contain any hormones and are available without a prescription in most drug stores or on the Internet. Examples are vitamin E capsules, Replens®, Hyalo GYN®, and K-Y® Brand LIQUIBEADS™. Talk with your BMT doctor before using these products.

Lubricants for sexual activity usually come in a liquid or gel form.
They’re used to supplement your own lubrication to minimize dryness and pain during sexual activity. You can use them to make sexual activity more comfortable and pleasurable. Examples are Astroglide®, K-Y Jelly, and Pjur® Woman and Bodyglide (a silicone-based lubricant). For more information, read the resource *Improving Your Vulvovaginal Health* (www.mskcc.org/pe/improving_vulvovaginal_health). Talk with your BMT doctor before using these products.

Depending on your treatment, the function of your ovaries may change. This can result in lowered estrogen levels. Your doctor may recommend that you take estrogen supplements after your transplant.

If you need any help or support with these issues, your doctor can refer you to a specialist in the Female Sexual Medicine and Women’s Health Program. You can also contact the program directly by calling 646-888-5076.

**Information for men**

You may have lowered sexual desire after your transplant. This could have an impact on your relationship. However, as you regain your strength and increase your activities, your sexual desire should also increase.

You may also have erectile dysfunction (ED) after your transplant. ED can be treated with medication, such as sildenafil citrate (Viagra®) or tadalafil (Cialis®). There are many other
ways to treat ED.

If you need any help or support with these issues, your doctor can refer you to a specialist in our Male Sexual and Reproductive Medicine Program. You can also contact the program directly by calling 646-888-6024.

**Drinking Alcohol and Using Tobacco**

After your transplant, your organs need time to recover. Alcohol can harm your liver and recovering bone marrow. This harm can be worse if you’re taking medications that can affect your liver. Don’t drink alcohol until your doctor tells you it’s safe.

Never smoke:

- Cigarettes
- Cigars
- Marijuana
- Other tobacco products

Doing so can lead to a serious lung infection. It can also increase your risk of a second cancer. If you need help quitting, contact the MSK Tobacco Treatment Program at 212-610-0507 or go to www.mskcc.org/cancer-care/counseling-support/tobacco-treatment.
Follow-Up Care

Your follow-up visits will be scheduled before you’re discharged. Your doctor will decide how often you’ll need these visits. If you’re doing well, they’ll be scheduled further apart.

Creating a MyMSK account may help you keep track of your follow-up appointments. MyMSK is MSK’s patient portal. It’s a private, personalized webpage with information about your appointments, results of lab and radiology tests, and a place to communicate with your care team. For help setting up a MyMSK account, watch our video How to Enroll in MyMSK: Memorial Sloan Kettering's Patient Portal (www.mskcc.org/pe/enroll_mymsk).

What to bring

When you come to your follow-up visits, bring a list of all the medications you’re taking, including patches and creams, and the dosages of each one. Make a list of any medications that need to be refilled. If you’re going to run out of any medications before your follow-up visit, tell your doctor before your appointment. You’ll be given prescriptions during your visit to be filled either at MSK or your local pharmacy.

You may also find it helpful to bring a list of questions that have come up since your last visit.
What to expect
You’ll have blood tests to check your blood counts, electrolyte levels, and liver and kidney function. Your doctor will tell you if and when you’ll need a bone marrow aspiration.

You may need to have intravenous (IV) treatments, including antibiotics and blood transfusions. If you do, your doctor or nurse will tell you for how long and how often you’ll need them. These appointments will usually be scheduled on the same days as your follow-up visits.

Vaccines and immunization
After your transplant, you’ll lose the protection from the vaccines you got as a child. This means you’ll need to get your childhood vaccines again once your immune system has recovered. This usually happens about 1 year after your transplant.

Your transplant team will coordinate your vaccinations once it’s safe for you to get them, or you may be referred to a nurse practitioner in our Immunization Clinic. The vaccines can be given at MSK, or your NP can give your primary care provider a list of the recommended vaccines. Sometimes it’s difficult for primary care providers to get the vaccines, so you may need to get them at MSK.
Dental care
After you’ve recovered from your transplant, go to your local dentist for routine checks. If you need extensive dental work, have your local dentist call a dentist at MSK at 212-639-7644 before treating you. Your transplant doctor will tell you when it’s safe to resume all dental care with your dentist.

Tell your doctor or dentist if you have:

- Taken the medications pamidronate (Aredia®) or zoledronic acid (Zometa®)
- Jaw tightness
- Toothaches
- Discoloration at your gum line
- Receding gums

Eye exams
You may develop cataracts if you received radiation therapy or high-dose steroids. If you develop any of the following symptoms, see an eye doctor.

- Vision that’s cloudy, blurry, foggy, or filmy
- Changes in the way you see color
- Problems driving at night, such as glare from oncoming headlights
- Problems with glare during the day
• Double vision

You may only need to change your eyeglass or contact lens prescription. Be sure to tell your optician or eye doctor what treatment you had.

Try to wait until at least 3 months after your transplant before getting a new vision prescription, as your vision can change during the recovery process.

**Common Medications to Avoid**

Don’t take aspirin, medications containing aspirin, or nonsteroidal anti-inflammatory drugs (NSAIDs) until your doctor tells you it’s okay. For a list of these medications, read the resource *Common Medications Containing Aspirin, Other Nonsteroidal Anti-inflammatory Drugs (NSAIDs), or Vitamin E* ([www.mskcc.org/pe/common_meds](http://www.mskcc.org/pe/common_meds)).

Check the label of any over-the-counter medications you’re thinking of taking to be sure that they don’t contain ingredients you should avoid. If you aren’t sure about if a specific medication is safe to take, ask your transplant team.

Don’t take any herbal supplements or home remedies without talking to your transplant team first.
Resources

MSK resources

Patient & Caregiver Education
www.mskcc.org/pe
Visit the Patient and Caregiver Education website to search our virtual library. There, you can find written educational resources, videos, and online programs.

Female Sexual Medicine & Women’s Health Program
646-888-5076
Call for information about issues related to female sexual function.

Male Sexual & Reproductive Medicine Program
646-888-6024
Call for information about issues related to male sexual function.

MSK Tobacco Treatment Program
212-610-0507
Call for information about quitting smoking or other tobacco products.

MSK Dental Service
212-639-7644
Call to speak with one of MSK’s dentists before having extensive dental work done locally.
External resources

MedicAlert Jewelry
www.medicalert.org
Visit for information about MedicAlert jewelry, including bracelets and necklaces.

American Cancer Society (ACS)
www.cancer.org
800-227-2345 (800-ACS-2345)
Visit their website for general information about cancer. You can also call to request printed copies of the booklets Sex and the Adult Female With Cancer or Sex and the Adult Male With Cancer.

If you have any questions, contact a member of your healthcare team directly. If you're a patient at MSK and you need to reach a provider after 5:00 PM, during the weekend, or on a holiday, call 212-639-2000.

For more resources, visit www.mskcc.org/pe to search our virtual library.

Returning Home After Your Autologous Stem Cell Transplant - Last updated on July 22, 2019
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