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## PATIENT & CAREGIVER EDUCATION

# Stem Cell Transplant Stretching Program

This information describes a stretching program that will help you before and after your stem cell transplant, and during your recovery.

This exercise program stretches the muscle groups that you use for everyday activities. This program will help prevent you from feeling stiff and decrease the effects of bed rest and not being able to move. Your physical and occupational therapists will help guide you through the program.

Stop any exercise that causes you pain or discomfort and tell your occupational or physical therapist.

Do these exercises 3 times per day.

## Stretching Exercises

### Forward neck stretch

1. Sit in a chair. Place both hands on the back of your head.
2. Using your hands, gently press your chin toward your chest (see Figure 1) until you feel a comfortable stretch along the back of your neck.
3. Hold this position for 30 to 45 seconds.
4. Slowly move your head back.



Figure 1. Forward neck stretch

## Diagonal neck stretch

1. Sit in a chair.
2. Keeping your head facing forward, slowly lower your right ear to your right shoulder (see Figure 2).
3. Move your head to the right so that your nose points toward your right armpit (see Figure 3).
4. Place your right hand on the back of your head to gently press your chin closer to your chest (see Figure 4) until you feel a comfortable stretch along the side of your neck.
5. Hold this position for 30 to 45 seconds.
6. Slowly move your head up.
7. Repeat on the other side.



Figure 2. Lower ear to shoulder



Figure 3. Move head so nose points toward armpit



Figure 4. Press chin against chest

## Side neck stretch

1. Sit in a chair.
2. Keeping your head facing forward, slowly bring your left ear to your left shoulder.
3. Place your left hand on the right side of your head to gently press your ear closer to your shoulder (see Figure 5) until you feel a comfortable stretch along the side of your neck.
4. Hold this position for 30 to 45 seconds.
5. Slowly move your head up.
6. Repeat on the other side.



Figure 5. Side neck stretch

## Knee to chest stretch

1. Lie down on your back.
2. Slowly bring both knees into your chest. Place your hands on your shins (under your knees).
3. Gently pull your knees into your chest until you feel a comfortable stretch in your buttocks and lower back (see Figure 6).
4. Hold this position for 30 to 45 seconds.
5. Slowly move your legs away from your chest and lower them to the floor.



Figure 6. Knee to chest stretch

## Hamstring stretch

1. Sit with your legs straight out in front of you.
2. Reach to touch your toes, keeping your knees and back straight (see Figure 7).
3. Hold this position for 30 to 45 seconds.
4. Slowly release.



Figure 7. Hamstring stretch

## Seated calf stretch

1. Sit with your legs straight out in front of you .
2. Loop a towel or sheet around the ball (top part right under your toes) of one foot.
3. Gently pull the towel or sheet toward you, keeping your toes pointed toward the ceiling, until you feel a comfortable stretch in your calf (see Figure 8).
4. Hold this position for 30 to 45 seconds.
5. Slowly release.
6. Repeat the stretch with your other leg.

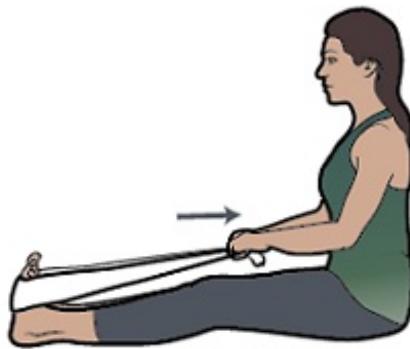


Figure 8. Seated calf stretch

## Seated hip stretch

1. Sit up in a chair and place your right ankle on your left knee (see Figure 9).
2. Gently lean forward until you feel a comfortable stretch in your right hip (see Figure 10).
3. Hold this position for 30 to 45 seconds.
4. Slowly release.
5. Repeat the stretch with your left leg.



Figure 9. Place ankle on knee



Figure 10. Lean forward

If you have questions or concerns, contact your healthcare provider. A member of your care team will answer Monday through Friday from 9 a.m. to 5 p.m. Outside those hours, you can leave a message or talk with another MSK provider. There is always a doctor or nurse on call. If you're not sure how to reach your healthcare provider, call 212-639-2000.

For more resources, visit [www.mskcc.org/pe](http://www.mskcc.org/pe) to search our virtual library.

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