

# POST OPERATIVE INSTRUCTIONS MPFL RECONSTRUCTION / REPAIR

(All of this information, and more helpful information, can be found on Dr. Roth's website at <a href="https://www.KevinRothMD.com">www.KevinRothMD.com</a>)

## DIET

- Start with clear liquids (jello, soup broth, Gatorade, etc.), crackers, white bread and other light foods
- Progress slowly to heavier foods as you tolerate the lighter foods without any nausea

# **WOUND CARE**

- Keep your dressing clean and dry and in place for three days after surgery
- You may shower by placing a large garbage bag over your dressing and brace do not submerge your leg under water
- You will leave the operating room with a white stocking on your leg, a brown ACE bandage over the stocking, a blue ice pad over the ACE bandage (if you decided to purchase), and a knee brace over that.
- On day 3 after surgery, you may remove your dressing. Steps to change your dressing:
  - First remove the brace by unclipping the four clips at the ends of each strap. Then remove the blue ice pad (if purchased).
  - Next unwrap or cut off the ACE bandage.
  - Next, you will remove the white stocking. This can usually be removed like a sock, but it can also be cut off. You will not need it any longer after it is removed.
  - After removing the stocking, you will find a wrap of white cotton material. This can be slowly pulled apart with your fingers.
  - Beneath the cotton wrap you will find some gauze pads, all of which can be removed and discarded.
  - And beneath the gauze pads, you will see small yellow strips on the incisions these can also be removed and discarded.
  - Beneath the yellow strips you will see white or brown sticky strips called "Steri-Strips."
     These are like bandaids over the incisions, and these should be left in place.
- It is normal for there to be some blood staining on the gauze dressings. If the wounds are completely dry, you may just place band-aids over them at this point. If there is a small amount



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of drainage still coming from the wounds, place a clean and dry gauze dressing on them daily until the drainage stops. If the drainage continues, call Dr. Roth's office to inform him.

Once the incisions are completely dry for 24 hours, you may shower. Let the water and soap run
over the incisions and pat them dry with a clean towel after the shower. Do not scrub the
incisions or vigorously dry them. Do not submerge the incisions under water (e.g. NO bath tubs,
swimming pools, hot tubs, ocean swimming, etc.).

## **MEDICATIONS**

- It is important to know that there will be some pain after surgery this is very normal. Unfortunately, there is no such thing as "painless surgery." While pain can sometimes be a marker of something going wrong, in the context of surgery, it is usually completely normal. If you are concerned about the level of pain that you are experiencing, please call Dr. Roth's office and he and his team can discuss with you and ask a few questions to confirm that your level of pain is normal and not a sign of something dangerous.
- Dr. Roth uses the pain scale from 0-10 to try to help recommend how many opiate pain pills to take, so try to be honest with yourself about your pain level. Remember, zero is no pain at all, and 10 is the *worst pain in the world*. Dr. Roth recommends not taking any opiates if your pain is in a 0-4 range. Pain in the range of 0-4 is generally expected and very normal. If your pain rises above a 0-4, use the charts below for some recommendations of how to add in opiate medication to try to bring it down to the 0-4 range.
- You will usually have had some pain medicine injected into your knee during surgery which will last for 6-12 hours after surgery.
- You have been given a prescription for an opiate pain medication (Oxycodone, Percocet, Norco, etc.). By following the "Over-The-Counter Medicine" Regimens below, you may be able to avoid taking any of the opiate medication, or may only need it for a day or two. Feel free to wean off the opiate as soon as you can.
- If you have a history of Obstructive Sleep Apnea (OSA), be sure to let Dr. Roth know as he may decide to change your post-operative pain regimen.
- If your narcotic pain medication has ACETAMINOPHEN in it (e.g. Norco, Percocet) then you CANNOT also take TYLENOL at the same time, which is the same medication.
- Side effects of the pain medication include itching, nausea, vomiting, dry mouth, constipation, dizziness and lightheadedness. Taking the medication with food will decrease the risk of nausea. To prevent constipation, it is recommended that you take a stool softener (e.g. Colace) while taking the opiate. Colace can be purchased over the counter. Take one tab 2-3 times per day.
- If taking the opiate medication causes you to experience itching without a rash, and without any swelling of the mouth or difficulty breathing, this is very common, and is not a true allergy. The best way to manage this is to try to wean off the opiates and just take the Advil/Tylenol regimen



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described below, or to take Benadryl for the itching. However, the Benadryl may not manage the itching very well, and often just puts you to sleep so you aren't as bothered by the itching.

• Try to wean off of the opiate pain medication as soon as possible. Using Dr. Roth's regimen below will help you transition away from the opiates as soon as possible.

Dr. Roth's Suggested Post-Operative Pain Management Regimens (Note that generic medications are exactly the same as brand name and can be substituted at lower cost and without any change in effectiveness.)

DR. ROTH'S SUGGESTED OVER-THE-COUNTER PAIN REGIMEN  MODERATE PAIN  DO NOT take the Tylenol if your opiate has acetaminophen in it already (e.g. Percocet, Norco)		
6 AM	600 mg Advil (ibuprofen)	
	1000 mg Tylenol (acetaminophen)	
12 NOON	600 mg Advil (ibuprofen)	
	1000 mg Tylenol (acetaminophen)	
6 PM	600 mg Advil (ibuprofen)	
	1000 mg Tylenol (acetaminophen)	
12 AM (MIDNIGHT)	600 mg Advil (ibuprofen)	
	1000 mg Tylenol (acetaminophen)	

DR. ROTH'S SUGGESTED OVER-THE-COUNTER PAIN REGIMEN  SIGNIFICANT PAIN  DO NOT take the Tylenol if your opiate has acetaminophen in it already (e.g. Percocet, Norco)		
6 AM	600 mg Advil (ibuprofen)	
9 AM	1000 mg Tylenol (acetaminophen)	
12 NOON	600 mg Advil (ibuprofen)	
3 PM	1000 mg Tylenol (acetaminophen)	
6 PM	600 mg Advil (ibuprofen)	
9 PM	1000 mg Tylenol (acetaminophen)	
12 AM (MIDNIGHT)	600 mg Advil (ibuprofen)	
3 AM	1000 mg Tylenol (acetaminophen)	

Note that this regimen is the same as the "Moderate Pain" regimen, however, it splits the Advil and the Tylenol so that they are taken at different times. In this regimen, you are taking SOMETHING every 3 hours, so you are always on the "upswing" of one or the other medication.



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IN ADDITION to the "Over-The-Counter" pain regimens above, the opiate you have been prescribed (typically oxycodone) can be added in AS NEEDED to supplement your pain and manage breakthrough moments of increased pain. You are encouraged to try to stop taking the opiate as soon as possible, and if you can manage without the opiate, please feel free to do so. At each moment that you are taking your other medications, try to assess your level of pain and take an oxycodone

SUGGESTED PAIN REGIMEN – WITH OPIATE		
MODERATE PAIN		
6 AM	600 mg Advil (ibuprofen)	
	1000 mg Tylenol (acetaminophen)	
	+	
	Pain Level 0-4: NO Oxycodone	
	Pain Level 5-7: ONE Oxycodone	
	Pain Level 8-10: TWO Oxycodone	
12 PM (NOON)	600 mg Advil (ibuprofen)	
	1000 mg Tylenol (acetaminophen)	
	+	
	Pain Level 0-4: NO Oxycodone	
	Pain Level 5-7: ONE Oxycodone	
	Pain Level 8-10: TWO Oxycodone	
6 PM	600 mg Advil (ibuprofen)	
	1000 mg Tylenol (acetaminophen)	
	+	
	Pain Level 0-4: NO Oxycodone	
	Pain Level 5-7: ONE Oxycodone	
	Pain Level 8-10: TWO Oxycodone	
12 AM (MIDNIGHT)	600 mg Advil (ibuprofen)	
	1000 mg Tylenol (acetaminophen)	
	+	
	Pain Level 0-4: NO Oxycodone	
	Pain Level 5-7: ONE Oxycodone	
	Pain Level 8-10: TWO Oxycodone	



SUGGESTED PAIN REGIMEN — WITH OPIATE <u>SIGNIFICANT PAIN</u> *** If you are following this regimen, and are consistently taking TWO oxycodone at EACH time				
			point, piease call Dr. Roth to 6 AM	o let him know that you are requiring that level of pain relief. ***
			6 AIVI	600 mg Advil (ibuprofen)
	Pain Level 0-4: NO Oxycodone			
	Pain Level 5-7: ONE Oxycodone			
	Pain Level 8-10: TWO Oxycodone			
9 AM	1000 mg Tylenol (acetaminophen)			
JAIVI	+			
	Pain Level 0-4: NO Oxycodone			
	Pain Level 5-7: ONE Oxycodone			
	Pain Level 8-10: TWO Oxycodone			
12 NOON	600 mg Advil (ibuprofen)			
	+			
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	Pain Level 5-7: ONE Oxycodone			
	Pain Level 8-10: TWO Oxycodone			
3 PM	1000 mg Tylenol (acetaminophen)			
	+			
	Pain Level 0-4: NO Oxycodone			
	Pain Level 5-7: ONE Oxycodone			
	Pain Level 8-10: TWO Oxycodone			
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3 AM	1000 mg Tylenol (acetaminophen) +			
	Pain Level 0-4: NO Oxycodone			
	Pain Level 5-7: ONE Oxycodone			
	Pain Level 8-10: TWO Oxycodone			
	rain Level 0-10. TWO Oxycodone			

Do NOT drive a car or operate any heavy machinery while you are taking narcotic pain medication (OxyCODONE, Oycontin, Norco, Percocet, Tylenol #3, etc.)



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## **ACTIVITY**

- It is very important to try to make sure that the knee is able to get fully straight after any knee
  reconstruction surgery. In order to avoid the knee becoming stuck in a bent position, do not
  place pillows behind then knee, but rather place pillows under the ankle/foot, which will force
  the knee into full extension. This will likely be uncomfortable, but will NOT damage the knee
  surgery.
- You may have been prescribed a "Continuous Passive Motion" (CPM) machine. The CPM is to be used approximately 4 hours per day. It is OK to sleep in this machine. It is generally easiest to remove your brace before getting into the CPM. Start the machine on the first day after surgery at 30 degrees and advance by 10 degrees per day. Once you get to 90 degrees, you may call the company and return the machine.
- When you are not in the CPM machine and are laying down, elevate the operative extremity to chest level whenever possible to decrease swelling
- Use crutches to assist with walking and help provide you stability as you learn to walk on an
  injured extremity. Wear your brace when walking. For the first two weeks after surgery, your
  brace should be locked in full extension whenever you are walking. During this time, your weight
  bearing should be "Toe-Touch Weight Bearing," meaning you are just allowed to put enough
  weight to touch the foot to the ground for some balance while walking.
- Your weight bearing will be advanced after two weeks.
- Avoid long periods of sitting with the leg below your waist or long periods of standing/walking for the first 7-10 days after surgery as these activities are likely to increase the swelling of your leg.
- You may return to sedentary work / school 3-4 days after surgery if swelling and pain are tolerable and you are no longer taking narcotic pain medications.
- DO NOT SMOKE cigarettes, smokeless tobacco, cigars, dip, chew, or any other tobacco product for at least 3 months after surgery if at all possible, as these will all **inhibit healing of the repair**, **increase the risk of infection**, and decrease the ability of the wound to heal.

## BRACE

• Brace is to be worn at all times (day and night) locked fully straight for the first week after surgery except when showering, doing exercises or when you are using the CPM. The brace will be unlocked by Dr. Roth at 2 weeks if appropriate.

# **ICE THERAPY**

• Dr. Roth highly recommends purchasing an ice machine for the post-operative period as it is much more convenient than ice packs, however, if necessary, ice packs are sufficient as well.



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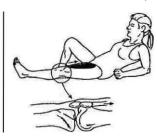
- Start ice immediately after surgery. You will have a bulky dressing on your knee and therefore you may not feel like the cold is penetrating, but it is still helping.
- Ice for 20 minutes a minimum of four times daily, or more often if you prefer, but no more often than 20 minutes every hour. Be sure there is always something between the ice pack and your skin and do NOT ice for longer than 20 minutes at a time or you could get frostbite.
- If you had a block at the time of surgery, your leg may be numb for up to 24 hours. It is particularly important during this time to be aware of the clock when you are icing as you will not feel the cold and frostbite is a real concern.

# **EXERCISE**

- You may start your exercises 24 hours after surgery (described below).
- Try to do your exercises a minimum of 3 times per day after surgery.
- Your knee will feel painful and stiff after surgery which is normal, but it is appropriate and healthy to start trying to bend and straighten it (unless otherwise instructed by Dr. Roth)
- Your goal range of motion at your first post-operative visit is to be able to get the knee completely straight and to 90 degrees of flexion.
- Formal physical therapy will begin after your first post-operative visit.
- Do ankle pumps throughout the day to minimize the risk of blood clots.

# Specific Exercises

QUADRICEPS SETS



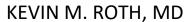
o Lie down or sit with your leg fully extended. Tighten and hold the muscle on the front of your thigh ("quad") to make the knee flat and straight. Think about pushing the back of your knee down against the bed or floor. If you are doing it correctly, the knee will flatten and the kneecap will slide up toward the thigh muscle.

#### HEEL PROPS

o Lie on your back with your heel propped on a rolled towel or on the armrest of a couch.

Or, sit in a chair with the heel propped on a chair. Leave nothing behind the back of your knee (e.g. no pillows behind your knee) and let the knee relax and become straighter. If you are unable to get the knee straight like this, you can place a weight (2 to 5 lbs.) on the thigh, just above the kneecap, to help push the knee straight. Patients often worry about "hyperextending" the knee,

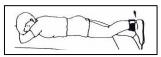






but this does not need to be worried about as long as you are not using more than 5 lbs. of weight.

#### PRONE HEEL HANGS



Lie on your stomach on a raised surface such as a table or a bed, and slide down so that your knee at the edge of the table and your foot is off the edge. Let the knee relax and let gravity pull your knee straight. As in the Heel Props above, if you cannot get the knee straight, a light weight (2 to 5 lbs.) can be hung from your heel to help add to the pull of gravity.

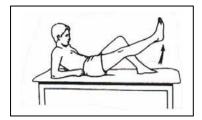
#### HEEL SLIDES

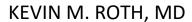
While sitting or lying on the floor or a bed, gently try to slide your heel along the floor toward your thigh by bending your knee. Hold this for a few seconds, and then slowly straighten the knee back out. If you have trouble doing this, you can take a towel and wrap it around the ball of your foot and use your hands to help gently pull your knee into flexion.



#### STRAIGHT LEG RAISES

- If your knee bends when you are doing this exercise, you are not yet ready. Continue working on the QUADRICEPS SETS (described above) until you are able to do this exercise keeping the knee completely straight
- The Straight Leg Raise is all about focusing on tightening your quadriceps muscle, which is why you have to be good at the Quad Set before you can be good at the Straight Leg Raise
- The steps of a good Straight Leg Raise are as follows:
  - 1. Tighten the quadriceps as much as you can (same as a quad set)
  - 2. Tighten it even harder!
  - 3. Lift your heel 4 to 6 inches off the floor, keeping the knee straight
  - 4. Think about tightening your quad even harder!
  - 5. Lower the leg gently back to the floor, keeping the quad as tight as possible
  - 6. Try one more time to tighten the quadriceps muscle
  - 7. Now relax and rest a minute or two, and repeat

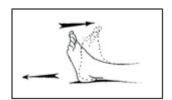






#### ANKLE PUMPS

 Move your foot up and down like you are stepping on and off of a gas pedal. This helps circulate blood through your leg. Do this about 20-30 times, every few hours.



## **EMERGENCIES**

- Ideally, contact Dr. Roth's office at 650-853-2943 during business hours (8 am 5 pm) to reach Dr. Roth or a representative.
- For concerns that cannot be addressed during business hours, call the Palo Alto Medical Foundation operator at **650-853-2943**.
- Please contact Dr. Roth's office immediately if any of the following are present, or for any other concerns:
  - Pain that is not controlled by the regimen described above
  - Pain that is unrelenting or getting worse over time rather than staying the same or improving
  - Numbness that lasts longer than 24 hours after surgery
  - Fever (greater than 101° low grade fever is normal for the first few days after surgery)
  - o Redness around the incisions
  - Continuous drainage or bleeding from the incision (some drainage is expected)
  - Difficulty breathing
  - Chest Pain
  - Light headedness or passing out
  - Uncontrollable nausea, vomiting
  - Color change in the operative extremity
  - Blistering of the skin
- If you have an emergency that requires immediate attention, proceed to the nearest Emergency Room.

## **FOLLOW-UP**

• If you do not already have a follow-up appointment scheduled, please call 650-853-2943 to schedule an appointment. Follow-up appointments are generally 7-10 days after surgery.