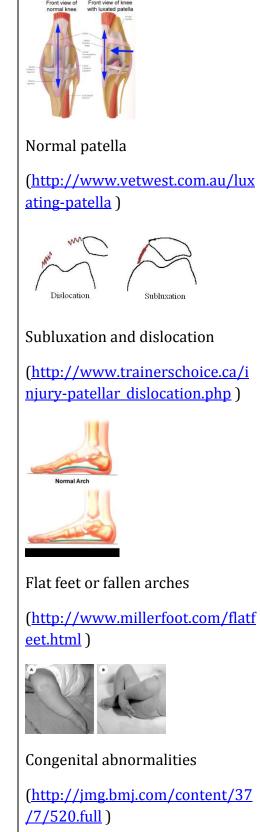
Voice Over text	Images/videos	Additional Comments
Your Practice Online presents Patellofemoral Instability.	Graphical text drops in with image on the background	 Suggest for Text Display (If text needs to shown on video) Label in the images/videos (If some body part/implant/surgi cal instrument needs to be labelled)
The knee can be divided into three		 Highlight key feature (Such as some muscle/nerve/bod y part need to be highlighted in the process of surgery) Image 1:Label
compartments: patellofemoral, medial and lateral compartment. The patellofemoral compartment is the compartment in the front of the knee between the knee cap and thigh bone. The medial compartment is the area on	Knee joint (File #: 15950774)	patellofemoral compartment Text display: Patellofemoral instability (along with image 2)
the inside portion of the knee, and the lateral compartment is the area on the outside portion of the knee joint. Patellofemoral instability means that the patella (kneecap) moves out of its normal pattern of alignment. This malalignment can damage the underlying soft structures such as muscles and ligaments that hold the knee in place.	Lateral Compatrment Articular Cartilage Medial Compartment	
http://www.orthosports.info/multimedi a/pfemoral- Instability/Patello Instability.swf	Image 1: Patellofemoral, medial and lateral compartment (http://orthoinfo.aaos.org/topic. cfm?topic=A00585)	
http://www.turner-		

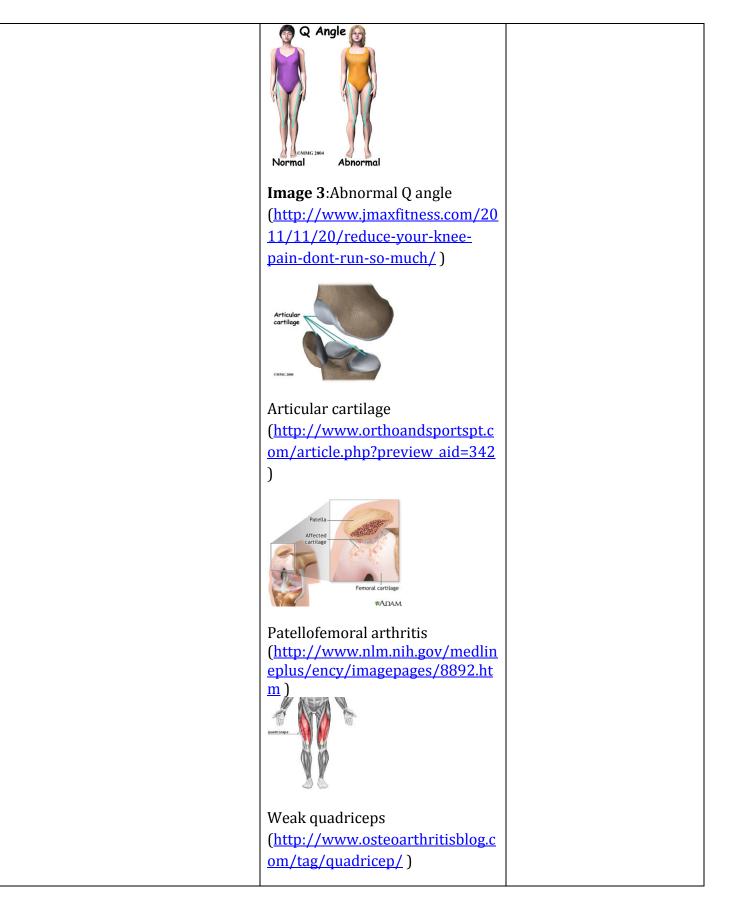
white.com/pdf/brm OSM pre2 4.pdf	Image 2: Patellofemoral instability http://skishoulderknee.com/patellofemoral instability noida del hi india.html Image 2: Patellofemoral instability http://skishoulderknee.com/patellofemoral instability noida del hi india.html Image 2: Patellofemoral instability http://skishoulderknee.com/patellofemoral instability noida del hi india.html Image 2: Patellofemoral instability http://skishoulderknee.com/patellofemoral instability noida del hi india.html Image 2: Patellofemoral instability noida del hi india.html	
 Causes Patellofemoral instability can be caused because of variations in the shape of the patella or its trochlear groove as the knee bends and straightens. Normally, the patella moves up and down within the trochlear groove when the knee is bent or straightened. Patellofemoral instability occurs when the patella moves either partially (subluxation) or completely (dislocation) out of the trochlear groove. A combination of factors can cause this abnormal tracking and include the following: Anatomical defect- Flat feet or fallen arches and congenital abnormalities in the shape of the patella bone can cause misalignment of the knee joint. Abnormal Q angle-The high Q angle (angle between the hips and knees) often results in mal tracking of the patella such as in 	Image1:Patella (http://www.empowher.com/me dia/reference/patella-fracture)	Image 1:Label patella Image 2: Label trochlear groove Image 3: Label Q angle Image 4:Label Quadriceps

patients with knock knees.

- Patellofemoral arthritis-Patellofemoral arthritis occurs when there is a loss of the articular cartilage on the back of the kneecap. This can eventually lead to abnormal tracking of the patella.
- Improper muscle balance- Weak quadriceps (anterior thigh muscles) can lead to abnormal tracking of the patella, causing it subluxate or dislocate.

Young active individuals involved in sports activities are more prone to patellofemoral instability.





Symptoms

Patellofemoral instability causes pain when standing up from a sitting position and a feeling that the knee may buckle or give way. When the kneecap slips partially or completely you may have severe pain, swelling, bruising, visible deformity and loss of function of the knee. You may also have sensational changes such as numbness or even partial paralysis below the dislocation as a result of pressure on nerves and blood vessels.



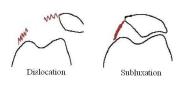
Pain(File #: 14839882)



Knee buckle or give way

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(http://sports.yahoo.com/tennis /blog/busted_racquet/post/Auss ie-Open-Day-9-Roddick-losesmarathon-Rafa?urn=ten-215661

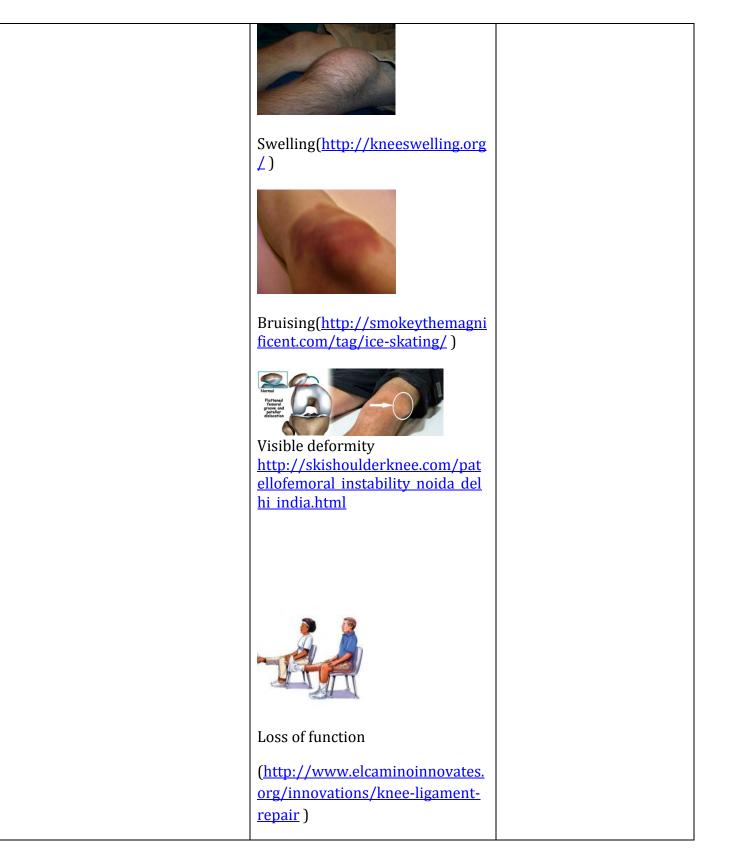


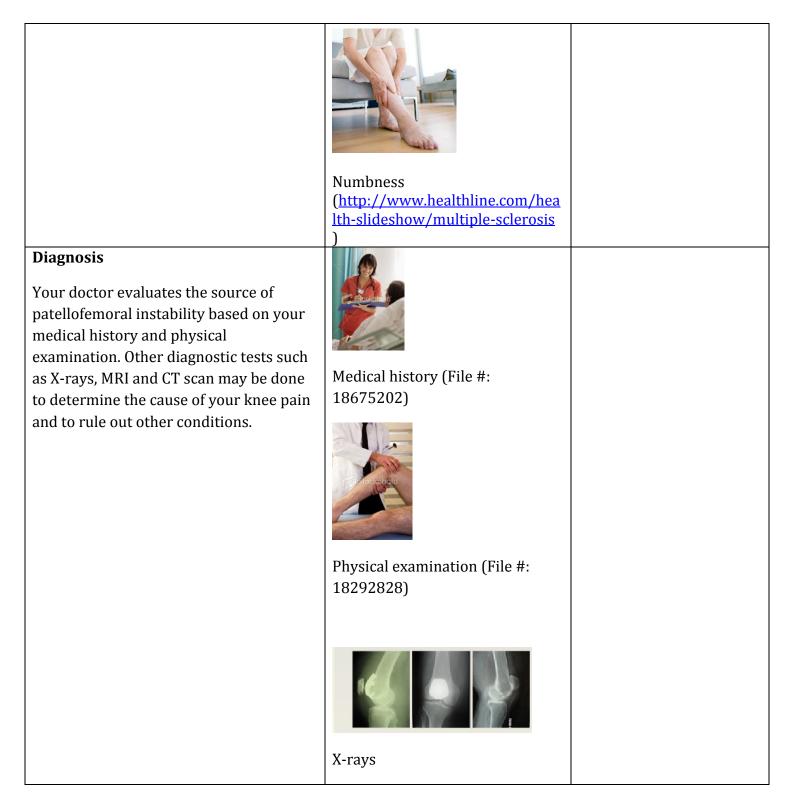
Subluxation and dislocation

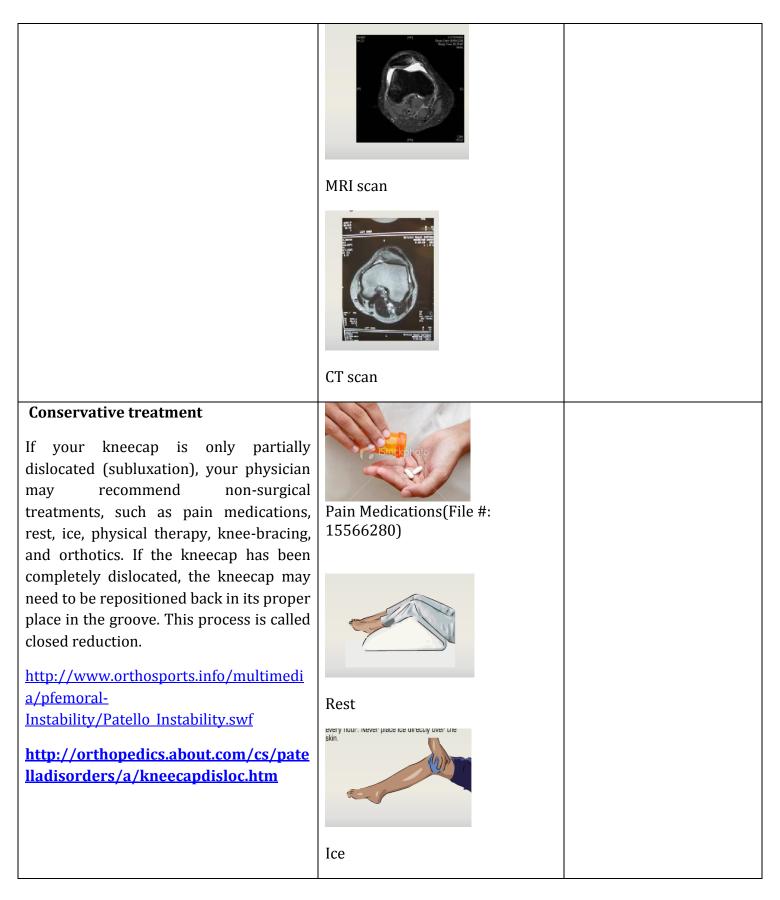
(http://www.trainerschoice.ca/i
njury-patellar_dislocation.php)

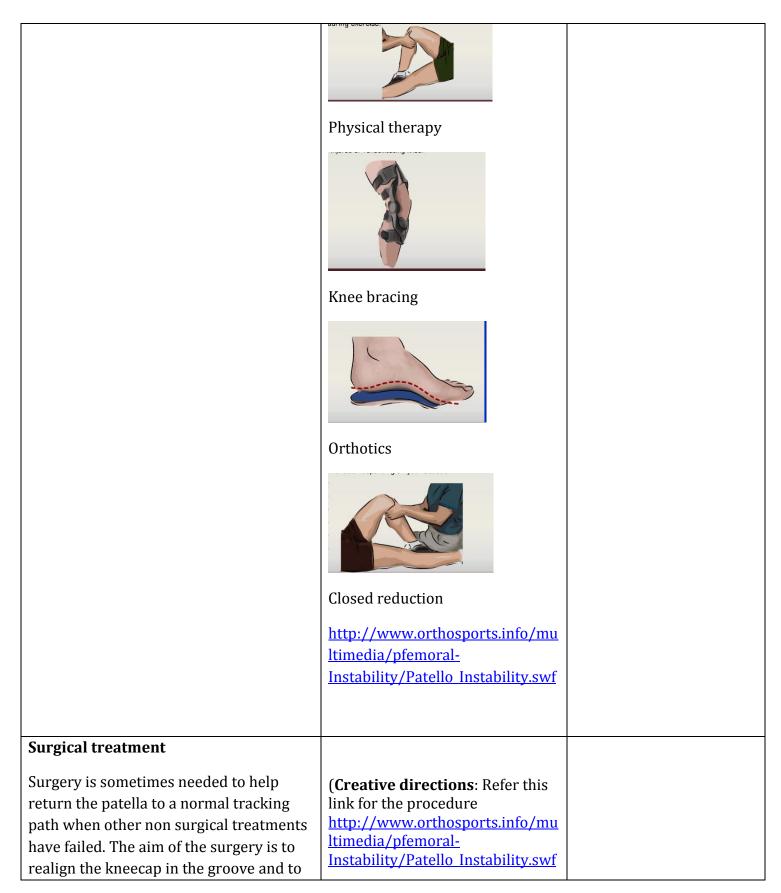


Severe pain(File #: 15950774)



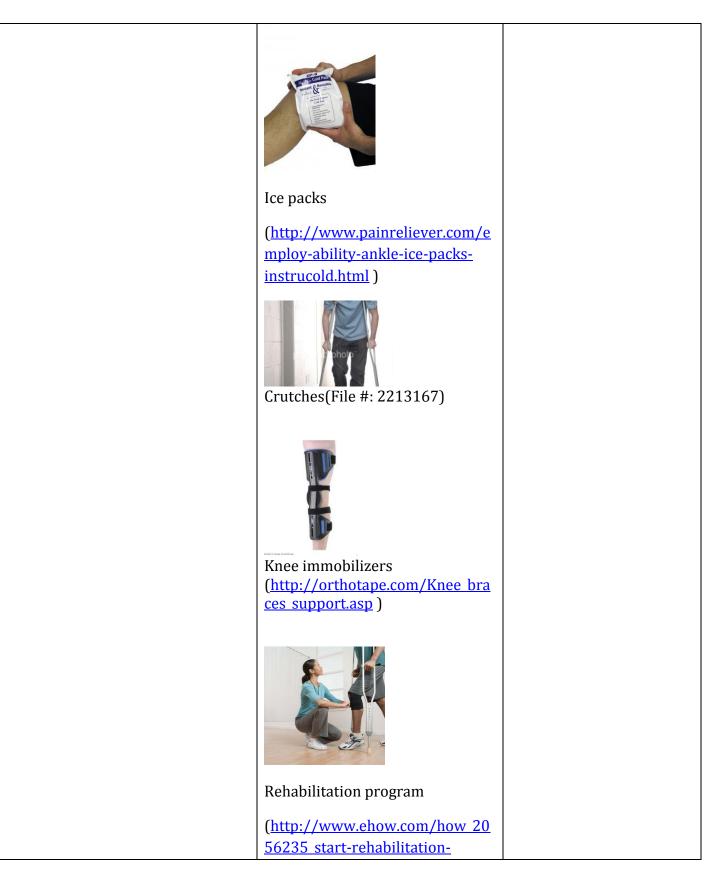






	2	
decrease the Q angle.)	
Patellar realignment surgery is broadly		
classified into proximal re-alignment		
procedures and distal re-alignment		
procedures.		
Proximal re-alignment procedures:		
During this procedure, structures that		
limit the movements on the outside of the		
patella are lengthened or ligaments on		
the inside of the patella are shortened.		
Distal re-alignment procedures: During		
this procedure, the Q angle is decreased		
by moving the tibial tubercle towards the		
inner side of the knee.		
The surgery is performed under sterile		
conditions in the operating room under		
spinal or general anaesthesia. The		
surgeon will make two or three small		
cuts around your knee. The arthroscope,		
a narrow tube with a tiny camera on the		
end is inserted through one of the		
incisions to view the knee joint.		
Specialized instruments are inserted into		
the joint through other small incisions.		
The camera attached to the arthroscope		
displays the image of the joint on the		
monitor. A sterile solution will be		
pumped into your knee in order to		
stretch the knee and provide a clear view		
and room for the surgeon to work. With		
the images from the arthroscope as a		
guide the surgeon can look for any		
pathology or anomaly and repair it		
through the other incisions with various		
instruments. After the evaluation is		
completed, a larger incision is made over		
the front of the knee. Depending on your		
situation, a lateral retinacular release		
may be performed. In this procedure, the		
tight ligaments on the outer side of the		
knee are released, thus allowing the		
patella to sit properly in the femoral		
groove. Your surgeon may also tighten		
the tendons on the inside, or medial side		
the tenuons on the mane, or methal slue		

In cases where the malalignment is severe, a procedure called a tibial tubercle transfer (TTT) will be performed. In this procedure a section of bone where the patellar tendon attaches to the tibia is removed. This bony section is then shifted and properly realigned with the patella and reattached to the tibia using screws. Once the malalignment is repaired and confirmed with arthroscopic evaluation, the incisions are closed with sutures.Interview here the patellar tendon attaches to the tibia using screws. Once the malalignment is repaired and confirmed with arthroscopic evaluation, the incisions are closed with sutures.Interview here the patella Instability.swfPostoperative care Your doctor will recommend pain medications to relieve pain. To help reduce the swelling you will be instructed to leftst few weeks to prevent weight bearing on the knee. A knee immobilizer may be used to stabilize the knee. You will be instructed about the activities to be avoided and exercises to be performed for a faster recovery. A rehabilitation program may be advised for a speedy recovery.Fain Medications(File #: to faste recovery. A rehabilitation program may be advised for a speedy recovery.Levate the leg http://www.orthosports.info/multimedi a/pfemoral- Instability/Patello Instability.swfhttp://www.orthosports.info/multimedi a/pfemoral- Instability/Patello Instability.swfhttp://www.orthosports.info/m itumedia/pfemoral- Instability/Patello Instability.swf	of the knee to realign the quadriceps.		
Your doctor will recommend pain medications to relieve pain. To help reduce the swelling you will be instructed to elevate the leg and apply ice packs over the knee. Crutches are necessary for the first few weeks to prevent weight bearing on the knee. A knee immobilizer may be used to stabilize the knee. You will be instructed about the activities to be avoided and exercises to be performed for a faster recovery. A rehabilitation program may be advised for a speedy recovery.Pain Medications(File #: 15566280)http://www.orthosports.info/multimedia a/pfemoral-(http://www.orthosports.info/m ultimedia/pfemoral-	severe, a procedure called a tibial tubercle transfer (TTT) will be performed. In this procedure a section of bone where the patellar tendon attaches to the tibia is removed. This bony section is then shifted and properly realigned with the patella and reattached to the tibia using screws. Once the malalignment is repaired and confirmed with arthroscopic evaluation, the incisions are closed with sutures. http://www.orthosports.info/multimedi a/pfemoral-		
	Your doctor will recommend pain medications to relieve pain. To help reduce the swelling you will be instructed to elevate the leg and apply ice packs over the knee. Crutches are necessary for the first few weeks to prevent weight bearing on the knee. A knee immobilizer may be used to stabilize the knee. You will be instructed about the activities to be avoided and exercises to be performed for a faster recovery. A rehabilitation program may be advised for a speedy recovery.	15566280) Elevate the leg (http://www.orthosports.info/m ultimedia/pfemoral-	



	program-after-knee.html)	
Risks and complications		Text display: Arthrofibrosis (along with
Possible risks and complications associated with the surgery include:	- ALA	image 1)
• Loss of ability to extend the knee		
Recurrent dislocations or subluxations	Loss of ability to extend knee	
 Arthrofibrosis (thick fibrous material around the joint) 	(http://www.elcaminoinnovates. org/innovations/knee-ligament- repair)	
• Persistent pain		
	him And Subluxation	
	Recurrent subluxation and dislocation	
	(<u>http://www.trainerschoice.ca/i</u> njury-patellar dislocation.php)	
	Image 1 :Arthrofibrosis (<u>http://www.jaaos.org/content/</u> <u>15/11/682/F5.expansion</u>)	

	Continued pain	
	(File #: 14839882)	
Patients with patellofemoral instability		
have problems with the alignment of the		
knee cap. Therefore, treatment is		
necessary to bring the knee cap back into		
normal alignment. Your surgeon will		
decide which procedure is appropriate		
for your particular situation.		