

Globavet Ltd

blk b, 1/f, chung yuen mansion, no 71b waterloo rd., kln, Hong Kong, 0000

Phone: 852 2711 0332 Email: info@globavet.com

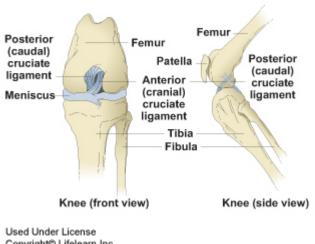
Cruciate Ligament Rupture in Cats

What and where are the cruciate ligaments?

The word cruciate means "to cross over" or "form a cross." The cruciate ligaments are two bands of fibrous tissue located in each knee joint. They connect the femur and tibia (the bones above and below the knee joint). One ligament runs from the inside to the outside the knee joint and the other from the outside to the inside, crossing over each other in the middle.

How does a cruciate injury occur?

The knee joint of the cat is one of the weakest in the body. It is relatively unstable because there are no interlocking bones in the joint. Instead, it is held together by several ligaments, including the cruciate ligaments, which allow it to move back and forth like a hinge, but restrict its side-to-side motion.



Copyright@ Lifelearn Inc.

When severe twisting of the knee joint occurs; the anterior or cranial cruciate ligament tears or breaks. When the cranial cruciate ligament is torn, instability occurs that allows the bones to move in an abnormal fashion in relation to each other. It is difficult for the cat to bear weight on the leg without it collapsing. This condition is painful and, if untreated, can lead to permanent joint complications.

How is a cranial cruciate ligament rupture diagnosed?

With acute cruciate injury, there is often a history of trauma such as an automobile accident or a fall from a height. In some cats, cruciate injury is secondary to another knee problem such as a luxating patella (kneecap that slips out of place). The most reliable means of diagnosing a cruciate injury is to move the femur and tibia in a certain way to demonstrate the instability. This movement is called a "drawer sign" due to the fact that the lower bone (tibia) can be pulled out (toward the front of the leg) relative to the top bone (femur) as if "opening a drawer". The cranial drawer sign can usually be demonstrated with the cat awake. If the cat is in pain, has very strong leg muscles, or is uncooperative, it may be necessary to use sedation in order to examine the joint thoroughly.

Is other joint damage common?

Occasionally the injury that causes the cruciate injury also results in tearing of one or both of the menisci or cartilages that are located between the bones in the knee joint. These menisci may be viewed as "shock absorbers" for the joint. At the time of surgery, these are examined and repaired as necessary.

How is it treated?

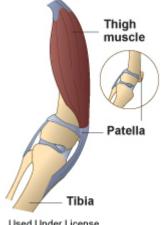
Correction of this problem usually requires surgery. A skilled surgeon can fashion a replacement ligament and stabilize the joint so it functions normally or nearly normally. Post-operatively, your will need to limit your cat's exercise for several weeks; for the average cat, this is not a difficult proposition!

Is there a non-surgical treatment for cruciate ligament rupture?

In certain cases, surgery may not be advised for a variety of reasons. If surgery is not an option for some reason, the cat's activity must be severely curtailed, with no jumping or running allowed for up to 6 weeks. Unfortunately, the cruciate damage, when left untreated, will result in a rapid onset of arthritis in the affected joint. If surgery is performed, it is possible that the cat will still develop arthritic changes in the joint, but this will occur much more slowly and to a lesser degree than if surgery is not performed.

Does obesity play a role in this condition?

Obesity or excessive weight can be a significant contributing factor in cruciate ligament rupture. The ligament may become weakened due to the strain of carrying too much weight, or other factors associated with obesity may cause ligament changes, causing it to tear more easily. Obesity will make the recovery time much longer, and it will make the other knee more susceptible to future ligament injury or rupture. Weight loss is as important as surgery in



Used Under License Copyright® Lifelearn Inc.

ensuring rapid return to normal function, as well as being a preventive measure to help protect against this debilitating injury.

This client information sheet is based on material written by: Ernest Ward, DVM
© Copyright 2009 Lifelearn Inc. Used and/or modified with permission under license.