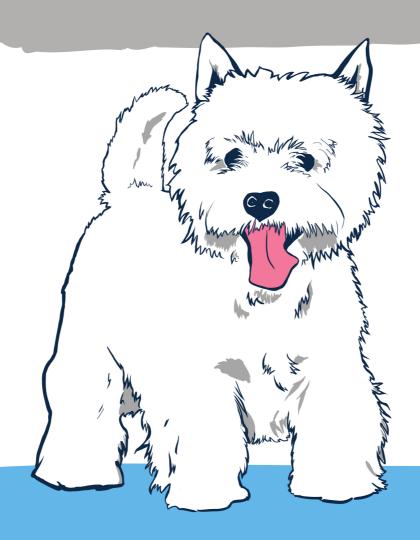


A MINI GUIDE TO



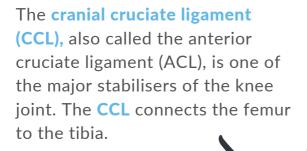
Cruciate Rupture



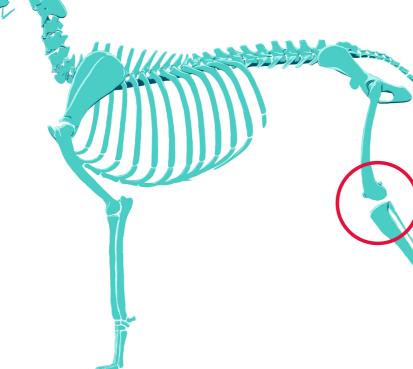




— Overview



It prevents excessive forward movement of the tibia and protects against excessive internal rotation of the tibia relative to the femur.



In animals, the knee joint is called the stifle.





Tibia

Femur



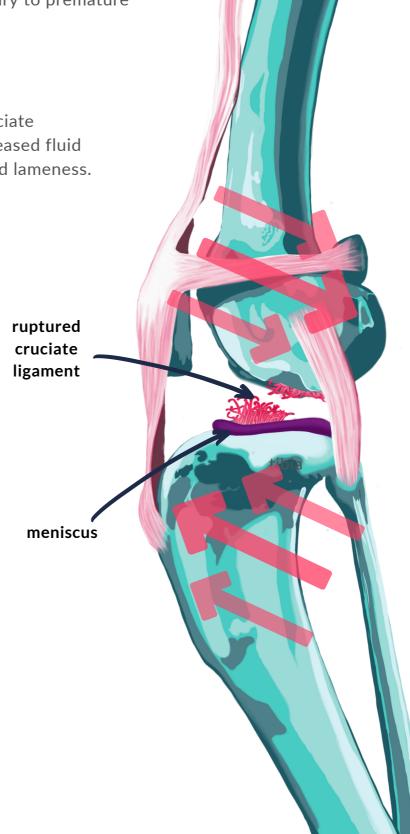
— Overview

A cruciate rupture can be partial or complete and can be due to a traumatic injury or secondary to premature degeneration of the ligament.

Damage to any of the fibres of the cruciate ligament causes inflammation and increased fluid within the joint, which leads to pain and lameness.

Once a significant proportion of the fibres are torn, the ligament is no longer able to stabilise the joint, which results in further discomfort.

Once the joint becomes unstable, there is also an increased risk of injury to the **meniscus**. The **meniscus** sits on the top of the tibia and acts as a shock absorber between the tibia and the femur.









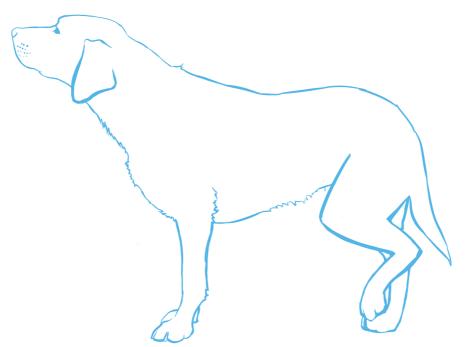
— Causes & — Symptoms

Causes

In humans, traumatic injury is most common. In animals, injury most commonly occurs due to prior weakening of the ligament. The term cruciate disease is used to describe this degenerative process, however the specific reasons why this occurs are not fully understood.

Symptoms

Clinical signs can be extremely variable. Some patients can be non-weight bearing, whereas in others, the only symptoms are a subtle loss of muscle mass, reduced ability, or willingness to exercise.



Breeds

Cruciate rupture can occur in any breed, however it is over-represented in Labrador and Golden Retrievers, Rottweilers, Boxers, West Highland White Terriers, and Newfoundlands.







— Surgery —

Although some animals may improve with conservative management, surgery is required to achieve a return to full function. The most effective treatment for this condition is a **tibial plateau levelling osteotomy (TPLO) surgery**.



It involves changing the angle of the top of the tibia by cutting the bone, rotating it, and fixing it in a new position with a plate and screws. This process provides stability to the knee.

TPLO surgery is seen as the gold standard procedure with 95% of patients returning to full function without the need for any ongoing analgesic medications.



