

# Veterinary diagnosis

A veterinarian diagnosed a young dog with a partial rupture of the cranial cruciate ligament and prescribed anti-inflammatory and pain medication. The owner wanted to manage the condition conservatively and the vet referred them for myofunctional therapy.

## Myofunctional assessment

The myofunctional assessment was performed approximately four weeks from the date of injury. The dog had completed the anti-inflammatory and pain medication several days prior to the assessment date. The referring veterinarian had cleared the dog to commence treatment and mild exercise.

### Observation – Stationary

The following observations were made while the dog was in a stationary standing position:

- Pelvis asymmetrical higher on the side of the injured limb.
- Femoral biceps on injured limb atrophied, particularly at the origin aspect.
- Not weight bearing on injured hind limb.
- Weight bearing forward onto forelimbs.
- Head carriage slightly forward and low.

#### **Observation – Movement**

The following observations were made with the dog in a walk from a cranial / caudal view.

- Not weight bearing on injured leg.
- Placement of non-injured hind limb toward the midline.



The following observations were made while observing the dog laterally in a walk:

- Weight bearing forward onto forelimbs.
- Head carriage slightly forward.
- Reluctance to turn to the side of the injured limb.

Assessment of the dog's movement over obstacles was not performed as the dog was anxious about approaching the obstacles.

#### Palpation

A physical examination of the dog found no contraindications to treatment.

Figure 1 Canine stifle joint



The following observations were made from the physical examination:

- Muscular tension in right and left brachial triceps, deltoid, trapezius and origin aspect of cleidocervical more so on the side of the injured hind limb.
- Atrophy of the femoral biceps of the injured limb.
- Muscle spasms and irritability along both the right and left thoracic and lumbar vertebrae origin of trapezius, latissimus dorsi, tensor muscle of the fascia lata and gluteals.
- On the uninjured hind limb, muscle knot and irritability in the insertion of the gracilis. Muscle tension in the femoral biceps and pectineal.
- On the injured hind limb, muscle knot and irritability in origin aspect of the semitendinous.
- Dog guarding injured stifle.

## Objectives of treatment programme

The objectives of the treatment programme were as follows:

- Address muscle tension and irritability in compensatory muscles in the uninjured limb, along the vertebral column, neck and forelimbs to prevent any longer term affects on gait.
- Maintain muscular health of uninjured hind limb particularly supporting the stifle joint to reduce risk of injury to cruciate ligaments.
- Address muscle atrophy in hind limb and maintain mobility.
- Increase proprioception in injured leg to encourage weight bearing and mobility.

### Treatment programme

The treatment programme comprised the following elements:

- Myofunctional therapy treatments including:
  - Massage to address muscular tension and maintain circulation in the muscles particularly in the injured limb,
  - Passive and active joint mobilisations and exercises to increase proprioception and maintain mobility.
- Hydrotherapy water walking to increase proprioception and build muscle strength.
- Diet and lifestyle
  - Modified diet to aid muscle healing and address weight gain due to limited exercise.
  - Addressed floor surfaces in the house to aid recovery and prevent further injury.
  - Modified yard design to prevent re-injury (or injury to other limb).
  - Modified exercise regime to aid healing and prevent re-injury.

For more information about how Full Stride may assist you and your dog please email me at <u>ilconlon@fullstride.com.au</u>