

SMALL ANIMAL CASE STUDIES

# CANINE COLLECTION

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# SMALL ANIMAL

## Canine Case Studies





# PRO-STRIDE APS USE IN LEFT ELBOW AND SHOULDER OA

Veterinarian Name | Tom Hutchins, DVM, Diplomate, American Board of Veterinary Practitioners (Equine Practice).

Practice Location | North Texas Veterinary Hospital, PLLC 8283 FM 920, Weatherford, TX 76088.

Date | July, 2018

## CASE STUDY DESCRIPTION:

Garrett is a 12 year old male neutered Border Collie, a family pet that had been a former herding dog.

## DIAGNOSIS:

Garrett was “t-boned” on the left side by another dog while playing in a dog park. His left shoulder and elbow were diagnosed with osteoarthritis (OA) secondary to this trauma years prior. Radiographs revealed the OA in the left elbow as the primary source of lameness. The patient’s shoulder had subtle changes as an incidental finding. The patient was grade 2/5 at a joint on the left front limb.

## PRIOR TREATMENT HISTORY:

Garrett had no specific treatment in years prior other than NSAIDS and AquaPaws water treadmill exercise.

## OWL MANOR PRODUCT(S) USED:

Pro-Stride APS System.

## TREATMENT DESCRIPTION:

- **5.4.2017** | Pro-Stride APS was injected in the left elbow and shoulder joints. 1 ml was infused into left elbow and 1 ml into each shoulder. The patient stayed sound for 7 months without NSAID support.
- **12.21.2017** | Initial treatment was repeated after the dog started showing signs of subtle lameness (grade 1/5) intermittently after more strenuous activity.
- **7/8/2018** | Sound without NSAID support.

## POST-TREATMENT PROTOCOL:

No NSAID medication was used after injection. Activity was reduced and controlled for several weeks post-treatment then the patient was returned to normal activity.

## RESULTS & OUTCOME:

Garrett was sound for 7 months after the first injection without NSAID use. After the second injection, Garrett was sound for more than 7 months without NSAID use.



# PRO-STRIDE APS USE IN RIGHT SHOULDER OCD

Veterinarian Name | Tom Hutchins, DVM, Diplomate, American Board of Veterinary Practitioners (Equine Practice).

Practice Location | North Texas Veterinary Hospital, PLLC 8283 FM 920, Weatherford, TX 76088.

Date | July, 2018

## CASE STUDY DESCRIPTION:

Griffey is a 1 year old male neutered German Shorthair Pointer and is a future hunting dog in training.

## DIAGNOSIS:

Radiographs of the right shoulder revealed osteochondritis dissecans (OCD).

## PRIOR TREATMENT HISTORY:

- **5.17.2017** | Griffey had Adequan injections and oral Meloxicam.
- **6.29.2017** | Meloxicam was not as rewarding as anticipated at resolving lameness. The medication was changed to Carprofen for a 10 day treatment to assess the response to therapy. Griffey did respond more favorably but was not 100% sound.

## OWL MANOR PRODUCT(S) USED:

Pro-Stride APS System.

## TREATMENT DESCRIPTION:

- **7.7.17** | Pro-Stride APS (1 ml) was injected into the right shoulder joint.

## POST-TREATMENT PROTOCOL:

Activity was reduced and controlled for several weeks post-treatment then the patient was returned to normal activity.

## RESULTS & OUTCOME:

- **7.8.18** | Patient only limps intermittently (3-5 strides) depending on level of activity.
- **11.17.17** | Radiographs were taken and showed improvement in OCD lesion in the right shoulder. The owner has initiated Dasuquin Advanced as supplemental treatment of OCD.



# PRO-STRIDE APS USE IN STIFLE OA

Veterinarian Name | Tom Hutchins, DVM, Diplomate, American Board of Veterinary Practitioners (Equine Practice).  
Practice Location | North Texas Veterinary Hospital, PLLC 8283 FM 920, Weatherford, TX 76088.  
Date | July, 2018

## CASE STUDY DESCRIPTION:

Missy is an 8 year old female spayed Catahoula. She is a working herding dog. She was a stray dog from Houston, TX who was picked by her owner in August 2016. At the time the owner noted a limp in the hind limbs.

## DIAGNOSIS:

**5.31.2017** | There was no improvement with Myristol and Carprofen according to the owner. Previous radiographs were reviewed and it was opined that the stifles were most likely the cause of the lameness as opposed to the coxofemoral joints. The patient was prescribed Galliprant. The options for a TPLO or surgical referral were discussed with the owner and they declined. Pro-Stride was offered and accepted.

## PRIOR TREATMENT HISTORY:

**8.2016** | The owner took patient to RDVM who diagnosed the onset of hip osteoarthritis (OA). The patient was prescribed Myristol and Carprofen for lameness.

## OWL MANOR PRODUCT(S) USED:

Pro-Stride APS System.

## TREATMENT DESCRIPTION:

- **6.22.2017** | Pro-Stride APS injections were made into both right and left femorotibial joints (MFT and LFT). 0.75 ml of Pro-Stride were infused into each of the 4 joints total.

## POST-TREATMENT PROTOCOL:

Activity was reduced and controlled for several weeks post-treatment then the patient was returned to normal activity.

## RESULTS & OUTCOME:

Patient responded initially to treatment with Pro-Stride APS but has been intermittently treated with Galliprant or Rimadyl since to maintain comfort.



# PRO-STRIDE APS USE IN STIFLE LIGAMENT AND MENISCUS INJURIES

Veterinarian Name | Tom Hutchins, DVM, Diplomate, American Board of Veterinary Practitioners (Equine Practice).

Practice Location | North Texas Veterinary Hospital, PLLC 8283 FM 920, Weatherford, TX 76088.

Date | July, 2018

## CASE STUDY DESCRIPTION:

Mitzi is a 2 year old female spayed Border Collie that has started agility training.

## DIAGNOSIS:

The patient has had intermittent lameness that increases with exercise. She had been on NSAIDs intermittently and performed therapy in AquaPaws. RDVM had performed radiographs of both stifles. It was suggested that the patient had ACL damage in both stifles with right side damage greater than left side. The patient had difficulty getting up from lying down or sitting position. Mitzi was grade 2+/5 lame in her right hind limb and grade 1/5 lame on the left hind limb.

## PRIOR TREATMENT HISTORY:

**11.2017** | The patient had ultrasound in both stifles to assess the cruciate ligaments and menisci.

## OWL MANOR PRODUCT(S) USED:

Pro-Stride APS System.

## TREATMENT DESCRIPTION:

- **12.21.2017** | Ultrasound of right and left stifles revealed disrupted CCL and inflamed medial meniscus in the right stifle and synovitis of the left stifle pouches.
- Pro-Stride APS was injected in the right and left femorotibial (MFT and LFT) joints.
- 0.5 ml of Pro-Stride APS was infused in each joint and 0.5 ml Pro-Stride was injected around CCL in the right stifle.
- Dasuquin Chews were also proscribed for joint supplements.

## POST-TREATMENT PROTOCOL:

Activity was reduced and controlled for several weeks post-treatment then the patient was returned to normal activity.

## RESULTS & OUTCOME:

**7.18.2018** | Patient has responded well. They recently started to receive NSAID therapy as intermittent lameness was noted by owner. The owner is considering a repeat treatment versus a TPLO surgery.

# PRO-STRIDE APS USE IN STIFLE OA

Veterinarian Name | Tom Hutchins, DVM, Diplomate, American Board of Veterinary Practitioners (Equine Practice).

Practice Location | North Texas Veterinary Hospital, PLLC 8283 FM 920, Weatherford, TX 76088.

Date | July, 2018

## CASE STUDY DESCRIPTION:

Rocky is a 2 year old male neutered Labrador Retriever that is a family pet.

## DIAGNOSIS:

**5.23.2018** | Patient was diagnosed as overweight for age and has difficulty getting up/down. He travels with a narrow base bunny-hop gait. The patient was 3/5 lame on both hind limbs. The review of radiographs revealed significant OA of both right and left stifles. Pro-Stride APS were scheduled.

## PRIOR TREATMENT HISTORY:

Patient was seen by RDVM where they had stifles / hips radiographed and then they were prescribed Carprofen for stifle osteoarthritis (OA). The patient got worse with increased activity and received Cosequin joint supplement as well.

## OWL MANOR PRODUCT(S) USED:

Pro-Stride APS System.

## TREATMENT DESCRIPTION:

**5.30.2018** | Pro-Stride APS was injected into both the right and left femorotibial joints (MFT and LFT). 0.75 ml of Pro-Stride was infused into each of the 4 joints.

## POST-TREATMENT PROTOCOL:

Activity was reduced and controlled for several weeks post-treatment then the patient was returned to normal activity.

## RESULTS & OUTCOME:

Patient responded very well. It took 2/3 weeks to see the full effect of the treatment. The patient is still having some difficulty getting up from lying down but once moving, ambulates almost normally. No NSAID therapy currently.

# PRO-STRIDE APS USE IN CANINE OSTEOARTHRITIS OF SHOULDER & ELBOW

Veterinarian Name | Tom Hutchins, DVM, Diplomate, American Board  
of Veterinary Practitioners (Equine Practice).

Practice Location | North Texas Veterinary Hospital, PLLC 8283 FM  
920, Weatherford, TX 76088.

Date | July, 2018

## **PRO-STRIDE**<sup>®</sup> APS

### **CASE STUDY DESCRIPTION:**

The patient was an 11 year old neutered male Border Collie. He is a pet that goes hiking and does agility.

### **DIAGNOSIS:**

Osteoarthritis of left shoulder and elbow.

### **PRIOR TREATMENT HISTORY:**

Patient was previously prescribed NSAIDs for lameness and was doing AquaPaws therapy 2-3 times weekly.

### **OWL MANOR PRODUCT(S) USED:**

Pro-Stride APS System.

### **TREATMENT DESCRIPTION:**

- Pro-Stride APS was injected in the left shoulder (1cc) and left elbow (0.75 cc).
- Split 1 kit for the procedure (5 ml ACD-A with 45 ml blood).

### **POST-TREATMENT PROTOCOL:**

Continue AquaPaws twice per week for 1 month. No NSAIDs and activity was restricted.

### **RESULTS & OUTCOME:**

Patient was sound within 2 weeks and only had 1 setback due to over exertion 1 month post-treatment.

The patient was confined for 1 week and returned to controlled exercise for 2 weeks. NSAIDs since event.



# RESTIGEN PRP USE IN FEMOROTIBIAL OA

Veterinarian Name | Tom Hutchins, DVM, Diplomate, American Board of Veterinary Practitioners (Equine Practice).

Practice Location | North Texas Veterinary Hospital, PLLC 8283 FM 920, Weatherford, TX 76088.

Date | July, 2018

## CASE STUDY DESCRIPTION:

Patches is a 2 year old female Great Pyrenees who is a livestock guardian.

## DIAGNOSIS:

The patient had left hind lameness. The patient was slow to get up, was playing less, and seemed more painful in the left hind limb versus the right hind limb. Patches possibly hurt herself jumping in/out of a vehicle 3-4 months prior, but she seemed fine thereafter.

## PRIOR TREATMENT HISTORY:

**5.9.2017** | Radiographs were acquired in hips and stifles. The right coxofemoral joint appeared to have less coverage over the femoral head and wider joint space than the left coxofemoral joint. Mild flattening of the femoral head was present bilaterally, the stifles appeared relatively normal. Dr. Hutchins recommended injection with PRP.

## OWL MANOR PRODUCT(S) USED:

Restigen PRP Device.

## TREATMENT DESCRIPTION:

- Restigen PRP was used in each coxofemoral joint and in both right and left femorotibial (MFT and LFT) joints.
- 0.75 ml of Restigen PRP was infused in both joints.

## POST-TREATMENT PROTOCOL:

Activity was reduced and controlled for several weeks post-treatment then the patient was returned to normal activity.

## RESULTS & OUTCOME:

**7.8.2018** | The patient has responded well and is only receiving Dasuquin Chews for joint supplement.

# RESTIGEN PRP DEVICE USE POST CBLO PROCEDURE



Veterinarian Name | Jeremy Frederick, DVM  
Practice Location | Companion Pet Hospital of Fishkill, 8 US 9,  
Fishkill, NY 12524  
Date | April, 2018

## CASE STUDY DESCRIPTION:

The patient was a canine, boxer, 5 years and 1 month old, spayed female that weighted 57.5 pounds. The patient presented for a right CORA-based leveling osteotomy (CBLO) to correct a right partial canine cruciate ligament (CCL) tear. A Restigen platelet-rich plasma (PRP) injection was also to be performed and the patient was to begin her laser light therapy (LLT) sessions post-op.

## DIAGNOSIS:

Right partial CCL tear.

## PRIOR TREATMENT HISTORY:

No previous treatment.

## OWL MANOR PRODUCT(S) USED:

Restigen PRP Device.

## TREATMENT DESCRIPTION:

- One Restigen PRP kit was used and 2 ml of PRP was injected intra-articular into the right stifle following surgery.

## POST-TREATMENT PROTOCOL:

- LLT was performed on the right stifle every other day for 6 treatments, then it was reassessed prior to determining whether additional LLT was required.
- E-collar was used 16 days post-treatment.
- The bandage was left over the incision for 5 days, then removed. Do not replace the bandage if it falls off before 5 days.
- Cool Compress the right stifle as recommended by Dr. Andrews.
- Recommended a recheck NSAID panel (CBC/Chem/UA) in 1 month if patient remained on Rimadyl.

## RESULTS & OUTCOME:

8.1.2018 | Owner reports dog did well post surgically. Continues to sit with right leg extended however has returned to her full level of activity.

# RESTIGEN PRP DEVICE USE IN BICEP TENDINOPATHY



Veterinarian Name | Dr. Kevin Cawood, DVM1, Dr. Aaron Wehrenberg, DVM2, Megan Bookmiller, RVT1

Practice Location | 1: Indian Creek Hospital, Fort Wayne, Indiana; 2: VCA, Fishers, Indiana

Date | April, 2018

## CASE STUDY DESCRIPTION:

Cisco presented as a 1 year old unaltered male Portuguese Water Dog with severe lameness of his left front limb.

## DIAGNOSIS:

**3.15.2016** | Upon examination there was a positive pain response on palpitation of the left bicep tendon and abduction of the left shoulder and therefore it was suspected that Cisco had bicep tendinopathy.

## PRIOR TREATMENT HISTORY:

**7.27.2015** | Cisco was first observed with left front lameness. Radiographs were acquired and no fractures were found. The patient was given a carprofen injection and was sent home with oral carprofen tablets for 10 days. The patient was seen again on 9/15/15, 10/30/15, 2/1/16, and 3/15/16 when he received radiographs, MRI analysis, and increasing medications including oral carprofen and tramadol.

## OWL MANOR PRODUCT(S) USED:

Restigen PRP Device.

## TREATMENT DESCRIPTION:

**4.20.2016** | Cisco was sedated and his left shoulder was surgically clipped and scrubbed. A Restigen PRP device was used, and approximately 2/3 ml of PRP was removed from the device. For the left shoulder, about 1.3 ml of PRP was injected around the bicipital tendon using ultrasound to locate the proper injection sites. The owner also reported stiffness in the left carpus, so 1 ml of PRP was also injected into the carpus for carpal tenosynovitis using ultrasound guidance.

## POST-TREATMENT PROTOCOL:

- For 12 days, Cisco was on restricted activity and received therapeutic laser treatments while boarding.
- He was sent home on 5/2/16 with no lameness.
- Carprofen was continued for a total of 3 weeks post-injections.

## RESULTS & OUTCOME:

**6.9.2016** | During a follow-up call the owner was able to say that Cisco was pain free and was still off any medication.

**6.21.2016** | Dr. Cawood was not able to elicit a pain response at either location. The owner was still using a carpal splint during long walks and was doing great off of the medications.

**5.17.2017** | A year out from the Restigen PRP injection, the owner called and indicated Cisco was doing great. He was still pain-free and medications were not needed.



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