



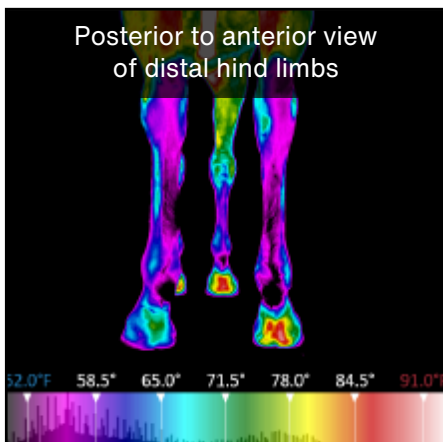
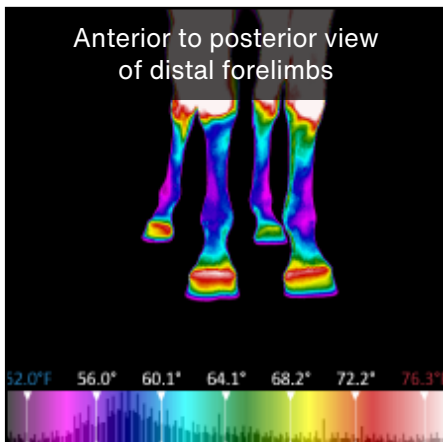
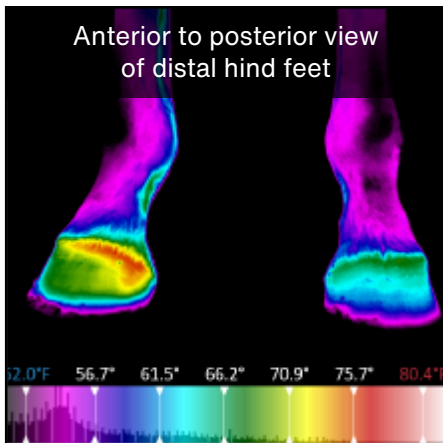
## Presentation


**Owner:** Mild intermittent shifting lameness over the past three weeks.

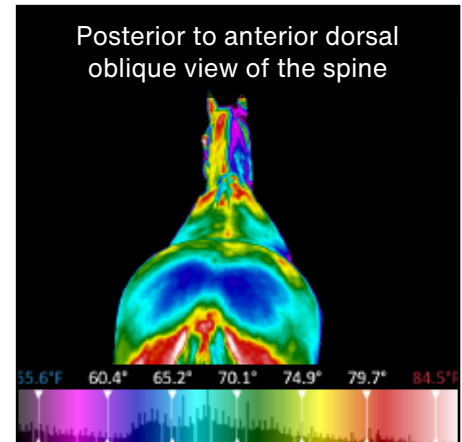
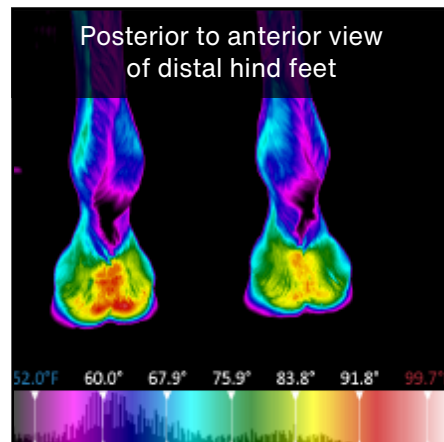
**Lameness exam:** Grade 1 lameness of indeterminable origin. Bilateral muscle laxity throughout the paravertebral and gluteal musculature. Negative on the tail pull test. Normal urination and fecal expulsion.



## WellVu Thermal Imaging



 Hypothermia (Cold)	
<b>Finding</b>	All four distal limbs demonstrate areas of bilateral asymmetrical hypothermia
<b>Impression</b>	Irritation of spinal nerves C5-7
<b>Finding</b>	Bilateral asymmetrical areas of hypothermia throughout epaxial, paravertebral, and gluteal musculature
<b>Impression</b>	Nerve irritation within the cervical spine





## Intervention Based on Findings

### Further Diagnostics

- Blood submitted for S. neuroma SAG1, 5, 6.
- Titer ratio: 1:4000

### Treatment Plan

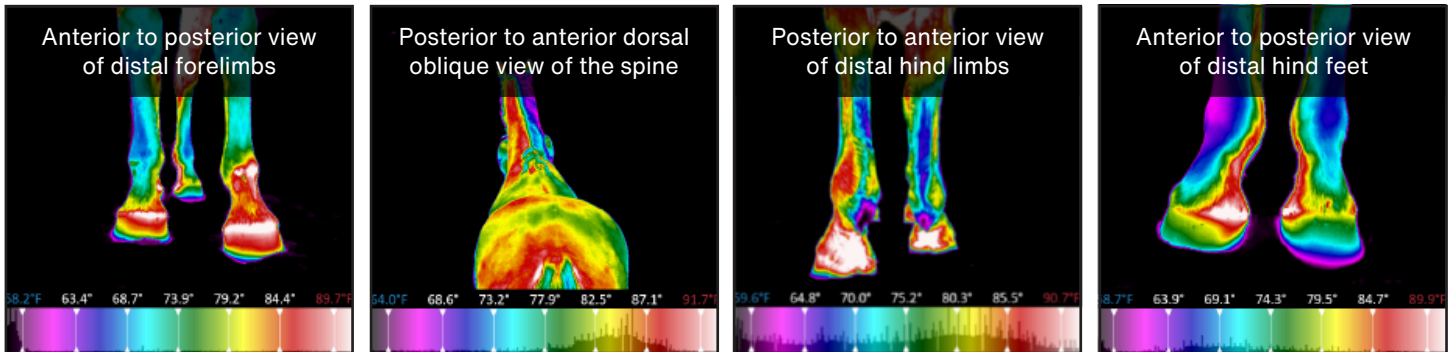
- Trimethoprim-sulfonamide orally for 30 days
- Ponazuril orally for 30 days
- Phenylbutazone orally for 14 days



## WellVu Thermal Imaging Recheck (30 Days)

**Owner:** Greatly improved. Question: when can they resume training?

**Lameness exam:** There is no evidence of lameness. The laxity within the musculature has almost resolved. All neurological testing was negative



<b>Finding</b>	All images illustrate a re-establishment of circulation.
<b>Impression</b>	The expected circulatory pattern has not been fully re-established; therefore, the patient has not fully recovered.



## Intervention Based on Findings

### Treatment Plan

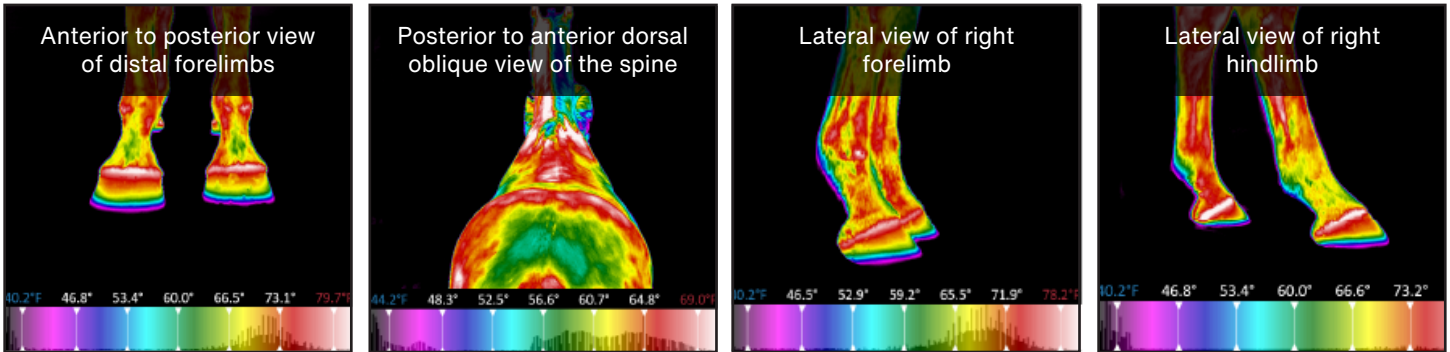
- Trimethoprim-sulfonamide
- Diclazril
- Phenylbutazone: reduced dosage to two grams/day




## WellVu Thermal Imaging Recheck (60 Days)

**Owner:** : Patient has resumed normal activity when turned out.

**Lameness exam:** There is no evidence of lameness. All the neurological signs have completely resolved. Muscle palpates normally throughout all large muscle groups.



 Hypothermia (Cold)	
<b>Finding</b>	All images display expected normal bilateral symmetrical thermal gradients
<b>Impression</b>	The patient has completely recovered.



### Patient Instructions

- Resume training with slow sessions for the first week to ten days, then increase gradually until the patient is fully back to work.
- Re-check in two weeks if necessary.



**Question**

**Who benefited more: the Patient or the Practice?**

# Better Care for Pets: Empowering Owners, Optimizing Outcomes



## Patient Benefits

- Client visualization allowed an understanding of the effect this organism has on the neurological system.
- Objective baseline temperature data for comparison on future re-evaluations.
- Client understanding of the importance of following the prescribed treatment plan.



## Practice Benefits

- Supportive evidence to the neurological exam.
- Objective measurement of the progress of the case.
- Client visualization allowed understanding and compliance with the recommended treatment plan.
- The client visualized that the patient had not returned to normal at the thirty-day recheck.
- Objective baseline data for comparison on future re-evaluations.



## Take-Aways

- The IRTI of this patient supported the initial neurological exam and allowed the client to visualize the complexity of this disorder.
- The patient appeared to have recovered at the thirty-day recheck, but the images provided evidence that additional treatment was necessary.
- The IRTI, which was taken at sixty days, provided evidence that the patient had completely recovered and could safely return to work.



## Infrared Thermography Objectively Monitored the Patient Progress:

