



Mobile Thermographics

Thermal Imaging Report Scandal



interpretIR.com
Infrared Interpretation Services

*Thermal Imaging completed
by a Certified Thermographer
Authorized with the EquineIR™
Network.*



Integrated Equine Infrared
Clinical Equine Thermal Imaging

*Interpretative results
completed by Licensed
Veterinarians in contract with
Integrated Equine Infrared.*



Mobile Thermographics

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PATIENT:Scandal

THERMOGRAPHY DATE:082414

IMAGING TIME:11:10

August 29, 2014

Donna Rothman - Stonehaven Farms
351 W. Samaria Rd.
Temperance, MI 48182

Dear Donna Rothman - Stonehaven Farms:

Mobile Thermographics was recently requested to perform a full body thermal imaging scan of:**Scandal**

The following photo report was completed by your EquineIR™ Certified Thermographer and all interpretative results were channeled through interpretir.com and subsequently formulated and input by a licensed veterinary team member with Integrated Equine Infrared.

The interpretation is intended to aid your state-licensed veterinarian in providing a diagnostic or treatment protocol. All follow-up testing and treatments should be conducted and administered by your primary veterinarian. The interpretation provided is based solely on the conditions at the time of survey and the thermal images included in this report. Thermography is a diagnostic tool that measures heat emitted from the surface of the patient. The thermal imaging camera converts infrared energy into a visible image. Emitted heat is related to circulation; as such, the thermal camera can help detect areas of inflammation as well as decreased circulation. Thermal symmetry is key, so you compare one anatomic area with the same area on the other side. The EquineIR™ report is prepared in this manner. It should be understood that correct patient preparation and environment are vital to a successful survey. Your EquineIR™ technician is also a Certified Infrared Thermographer and has been trained in the proper use and the proven techniques of thermal imaging as it is used with horses. There are however certain situations which may reduce the quality of the survey including the improper preparation of the horse prior to technician's arrival. The interpreting veterinarians who review the imagery base their findings and recommendations on information provided, so it is critical that proper care be taken in the preparation process to ensure success.

Thermal imaging is a physiologic modality and should not be relied upon as the sole diagnostic tool. A complete clinical examination by your state-licensed veterinarian is always recommended for the best diagnosis and follow-up treatment. This Report is not a definitive diagnosis of any illness or disease. It is intended for use only by licensed veterinary professionals to evaluate patient health, diagnose medical conditions, and provide treatment. It is not to be used by individuals for self-diagnosis or self-evaluation, nor for the diagnosis or evaluation of other non-qualified personnel. This report does not replace, nor is intended to replace a complete clinical evaluation by your state-licensed veterinarian. Under no circumstances will EquineIR™, Integrated Equine Infrared or its affiliates be held responsible for illness, injury, or death to the patient as a result of the information contained herein. This report does not replace, nor is intended to replace a complete clinical evaluation.

Your EquineIR™ Technician looks forward to working with you in the future. If you would like to set up an ongoing maintenance imaging program for your horse(s), we can arrange this at discounted rates along with multiple horse discounts. Please call our office with any questions as we would love to assist you in your success.

Sincerely,

Joy White, Certified Infrared Thermographer

PATIENT:Scandal

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EQUINE CLIENT INFORMATION

CLIENT NAME: Donna Rothman - Stonehaven Farms
MAILING ADDRESS: 351 W. Samaria Rd., Temperance, MI 48182
CLIENT EMAIL:tenacityfarm@yahoo.com
CLIENT PHONE:419-460-5724

HORSE AGE:5
HORSE BREED:Holstiener/TB
HORSE PRIMARY USE:hunter/jumper

SURVEY INFORMATION

THERMOGRAPHER:Joy White
INFRARED CERTIFICATION #:9810
INFRARED CAMERA MODEL: T420 CAMERA SERIAL NUMBER: 62106634
NUMBER OF THERMAL IMAGES SUBMITTED:30

WEATHER:calm, overcast, very slight breeze, humid
APPROXIMATE TEMPERATURE:76 °F
IMAGING LOCATION:Barn aisle

EXERCISED PRIOR:Yes HOW LONG: 20minutes WHEN: 45 minutes prior to scan
TYPE OF EXERCISE:lunged, walk, trot, canter both directions, 20 minutes, hand walked 15 minutes

BOOTS OR WRAPS ON HORSE?NoHOURS SINCE:Not Applicable
FLYSpray OR LINIMENTS APPLIED WITHIN 24 HOURS: No

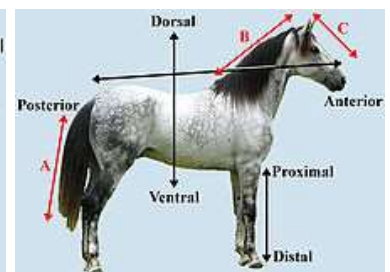
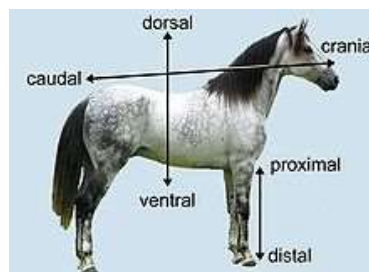
REASON FOR SCAN or HISTORY RECEIVED:Owner purchased as a 4 year old, she was unbroke. Owner noticed right away that she couldn't lift her left hind without trying to kick. Did not appear lame. Horse is very uncomfortable cantering to the right, she pins her ears & her front end starts to hop up & down more as she canters. She doesn't collect as well to the right. She is currently on Previcox. Prior treatments: April she had an SI joint injection. July L5 injection as well as Chiropractic and massage therapy. She is barefoot all around, her farrier is Roger Brown and she was last trimmed 8/7/14

INTERPRETATION INFORMATION (Completed by Veterinarian)

INTERPRETATION TYPE:Full Enhanced Survey

DATE OF INTERPRETATION:8/29/2014

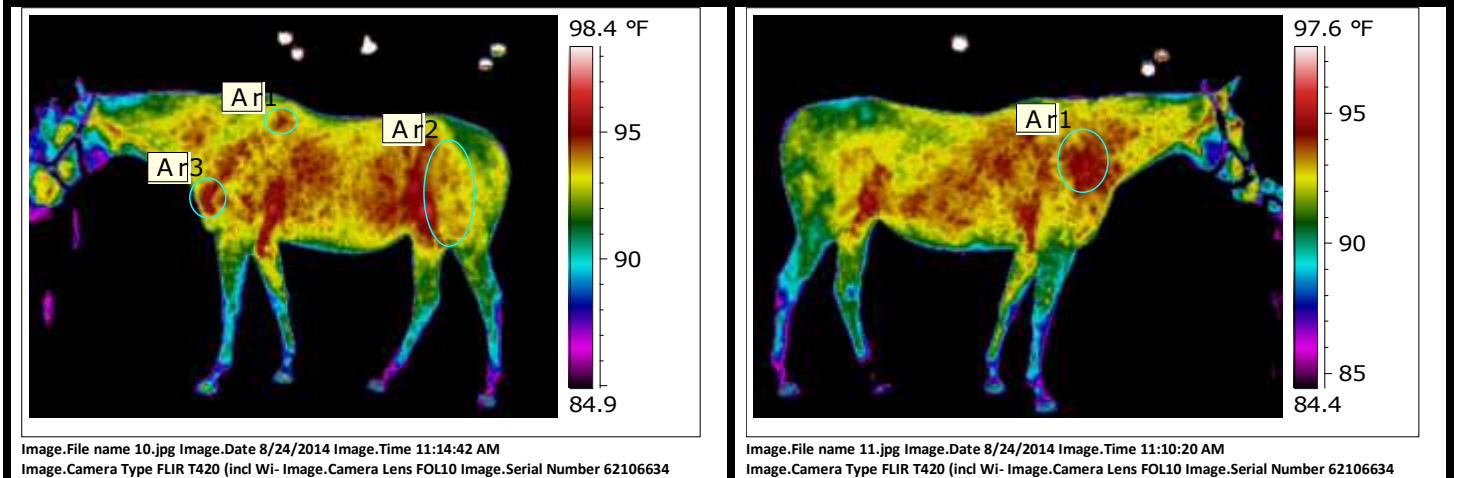
REVIEWING VETERINARIAN: Dr. Debra K Tibbitts, DVM



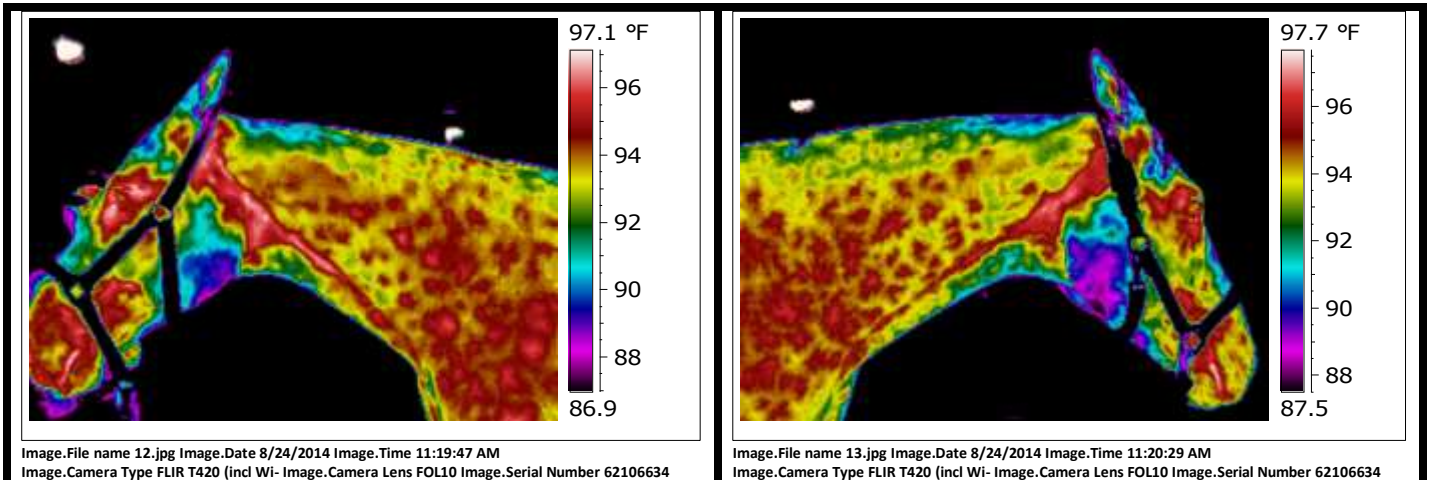
PATIENT:Scandal

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There is increased heat at the cervical-thoracic junction and mid scapula. Palpation of the area including C7 and first rib recommended. There are a couple small areas of focal heat on the right at the wither pocket and point of the shoulder, the source of which could not be discerned from the digital images. Palpation of these recommended checking for pain response. There is asymmetry in the thighs with heat greater on the left which may be due to primary musculoskeletal inflammation or off-loading of the right hind limb. Postural and gait analysis recommended.



NSF: No Significant Findings

PATIENT:Scandal

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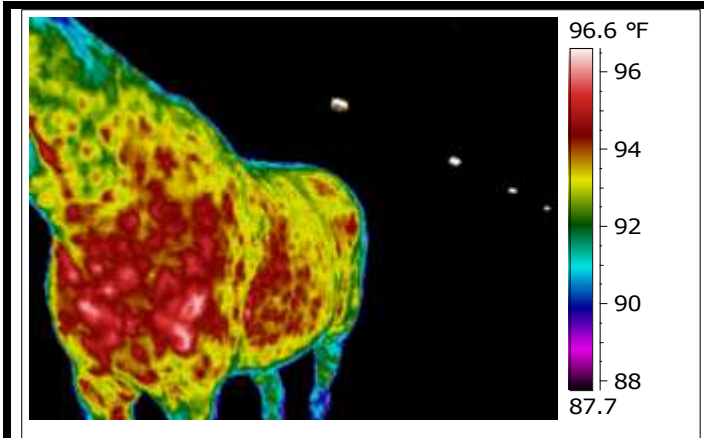


Image.File name 14.jpg Image.Date 8/24/2014 Image.Time 11:19:22 AM
Image.Camera Type FLIR T420 (incl Wi- Image.Camera Lens FOL10 Image.Serial Number 62106634

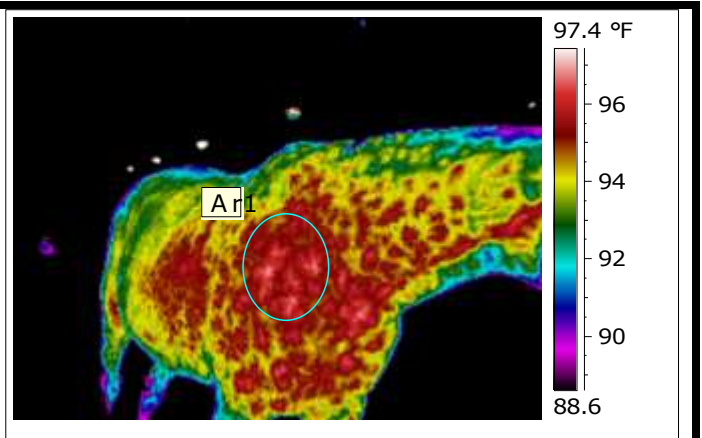


Image.File name 15.jpg Image.Date 8/24/2014 Image.Time 11:21:34 AM
Image.Camera Type FLIR T420 (incl Wi- Image.Camera Lens FOL10 Image.Serial Number 62106634

Asymmetry in the shoulder with heat greater on the right. See previous comments page 4, image 11.

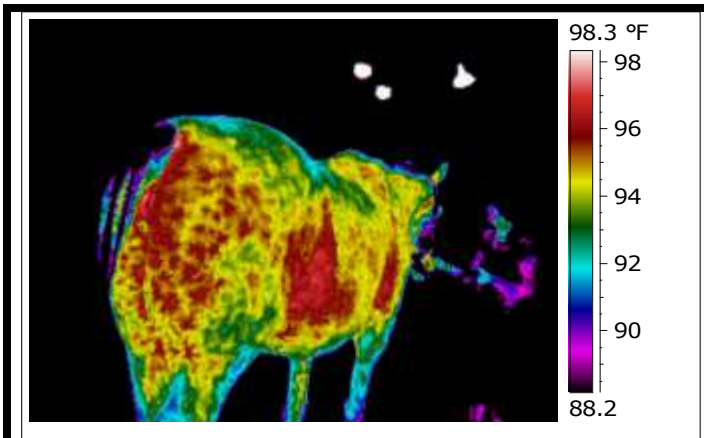


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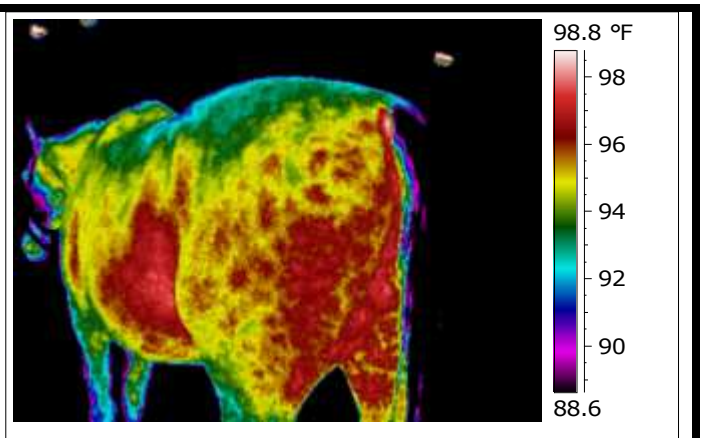


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NSF: No Significant Findings

PATIENT:Scandal

THERMOGRAPHY DATE:082414

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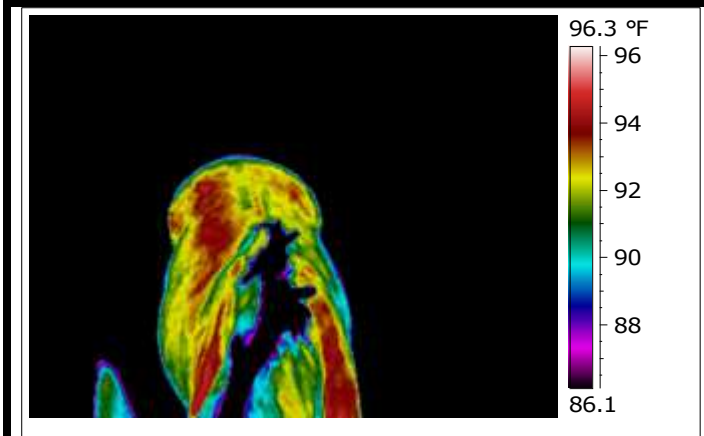


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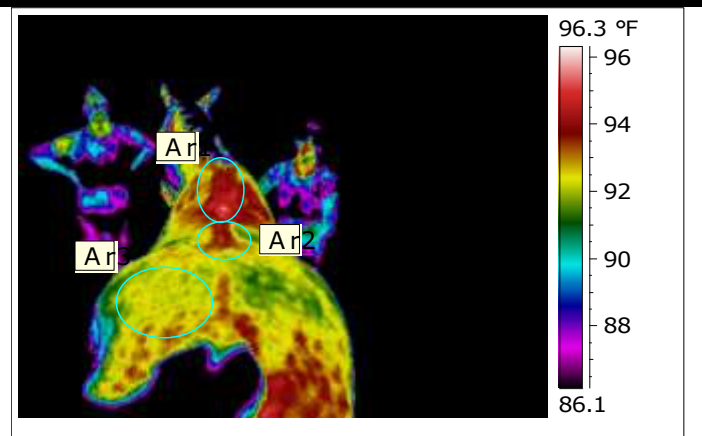


Image.File name 19.jpg Image.Date 8/24/2014 Image.Time 11:38:22 AM
 Image.Camera Type FLIR T420 (incl Wi- Image.Camera Lens FOL10 Image.Serial Number 62106634

Increased heat seen in the withers, thoracic and lumbar spine as well as at the sacroiliac joint. There is extension into the paraspinal musculature. Though some may be due to conformation and the close proximity of the dorsal spinous processes to the skin, there is still some true inflammation present. The type of extension into the surrounding musculature of the thoracic spine is consistent with saddle fit issues so this too should be evaluated. There is asymmetry in the gluteal muscles with heat greater on the left suggesting either primary inflammation or off-loading of the right hind limb.

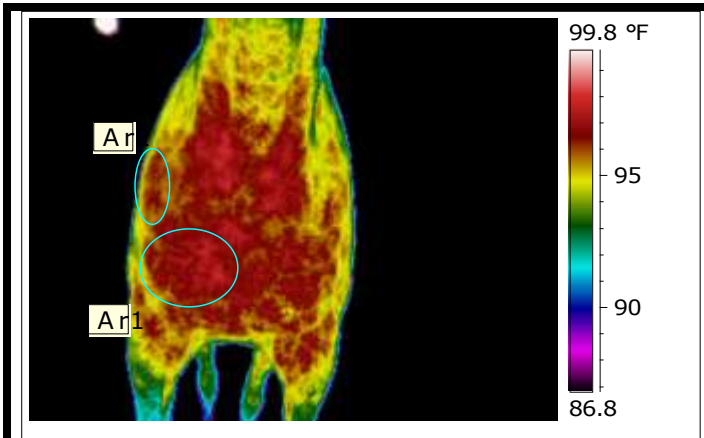


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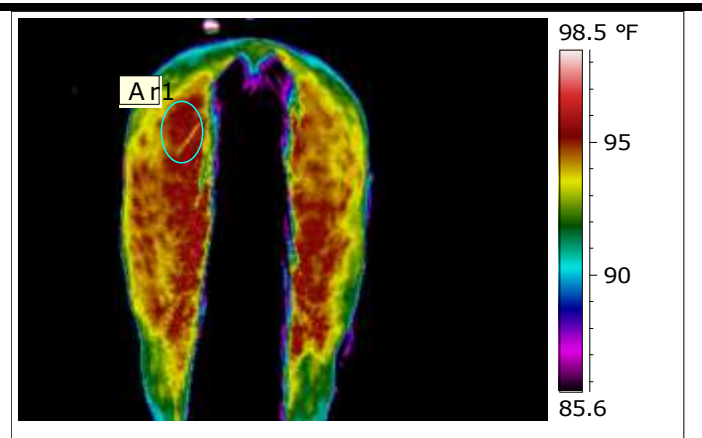


Image.File name 21.jpg Image.Date 8/24/2014 Image.Time 11:37:11 AM
 Image.Camera Type FLIR T420 (incl Wi- Image.Camera Lens FOL10 Image.Serial Number 62106634

There is some asymmetry in the chest and shoulder with heat greater on the right. There is slight asymmetry at the proximal semitendinosus muscle with heat greater on the left. Palpation recommended checking for primary inflammation/strain.

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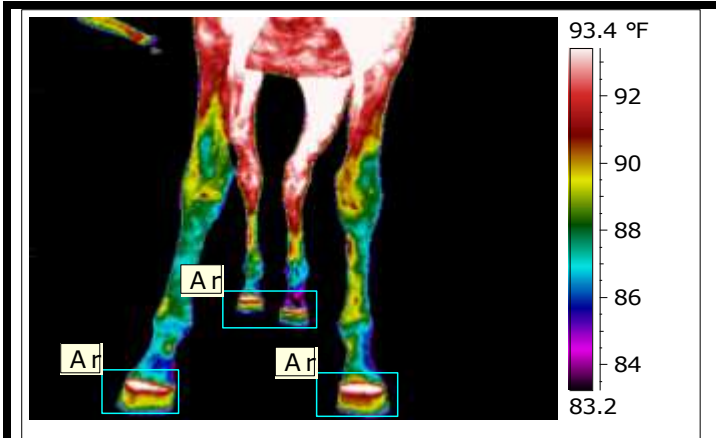


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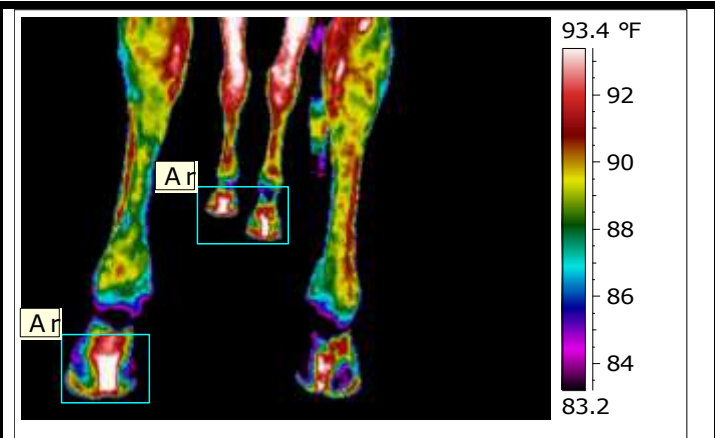


Image.File name 23.jpg Image.Date 8/24/2014 Image.Time 11:35:06 AM
Image.Camera Type FLIR T420 (incl Wi- Image.Camera Lens FOL10 Image.Serial Number 62106634

There is increased heat at the coronary band with uneven pressure all four feet. There is increased heat at the heel of both front feet and the left hind foot. Hoof imbalances and/or inflammation infection present in the feet. Thorough visual examination as well as hoof tester pressure testing recommended. Comments are based on images provided.

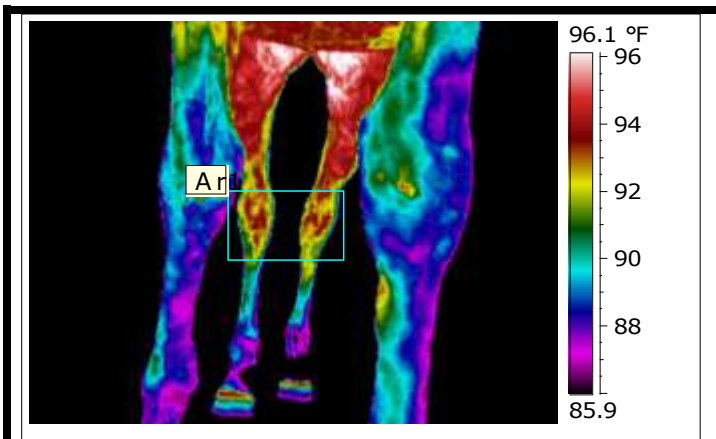


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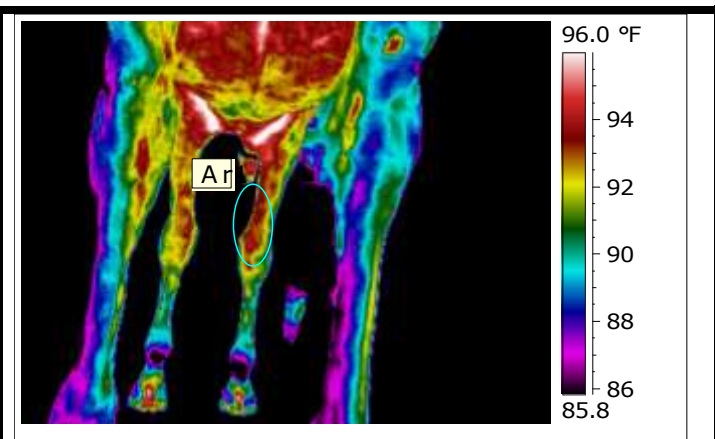


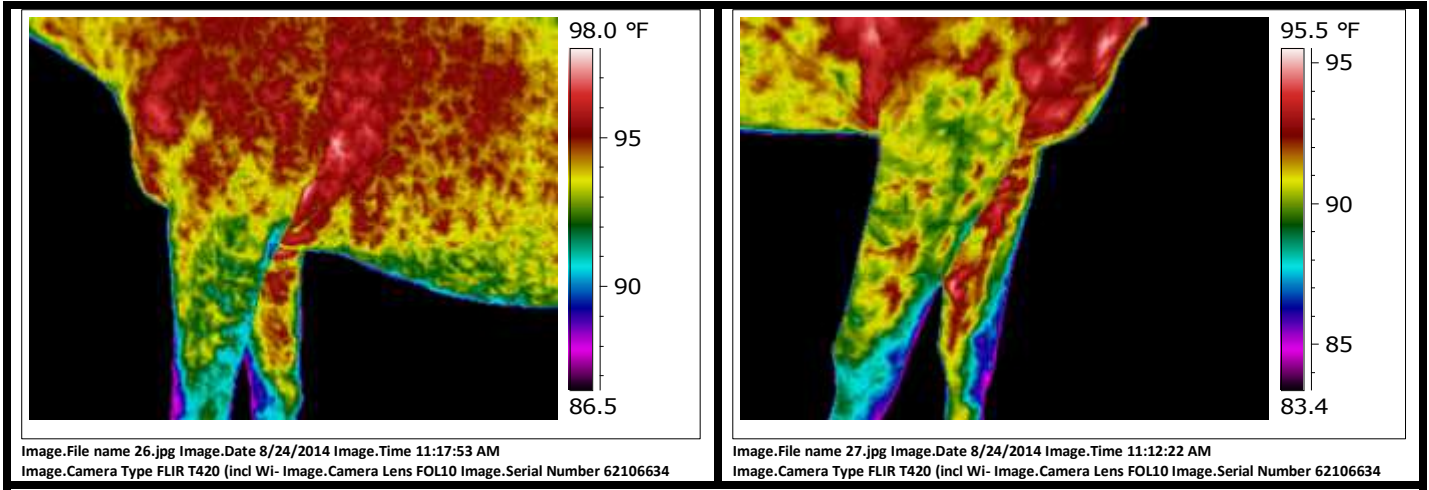
Image.File name 25.jpg Image.Date 8/24/2014 Image.Time 11:36:51 AM
Image.Camera Type FLIR T420 (incl Wi- Image.Camera Lens FOL10 Image.Serial Number 62106634

There is increased heat both hocks and left front forearm. Some level of tarsitis in 5-year-old large breed horses in training is not unusual but should not be ignored either. Flexion testing recommended. Temporary joint support may be warranted.

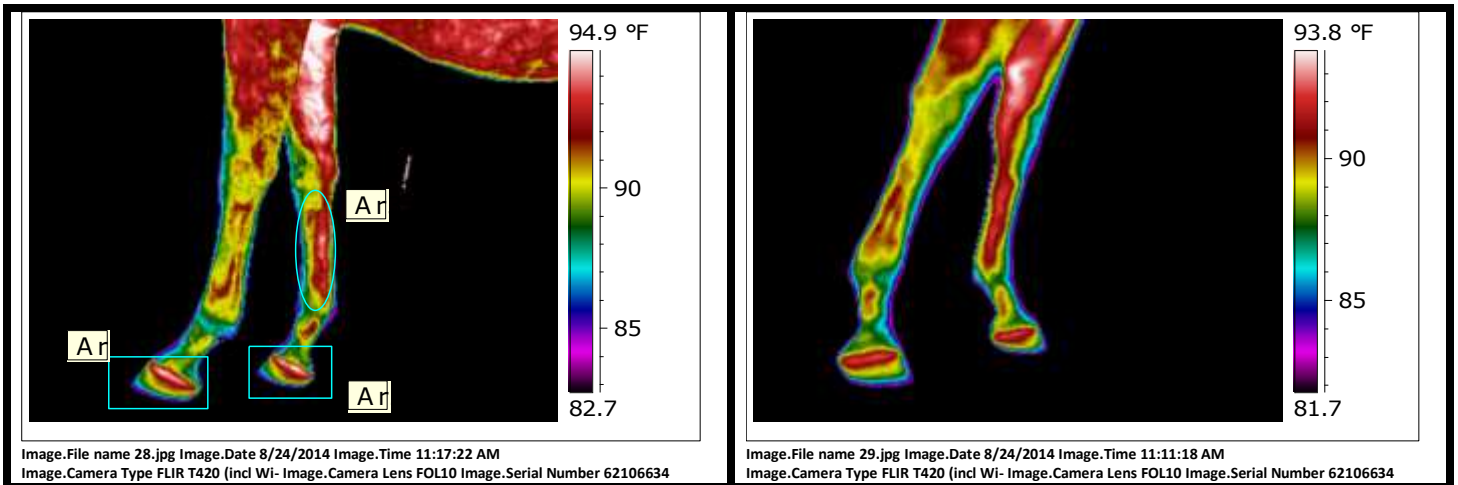
PATIENT:Scandal

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NSF: No Significant Findings



Both front feet have increased heat with the right being greater than the left. There is also increase heat along the flexor tendons of the right feet medial aspect. Palpation of the flexor tendons and suspensory ligaments recommended. Hoof imbalances likely present. Image 29 is poor quality and not able to do a comparative analysis.

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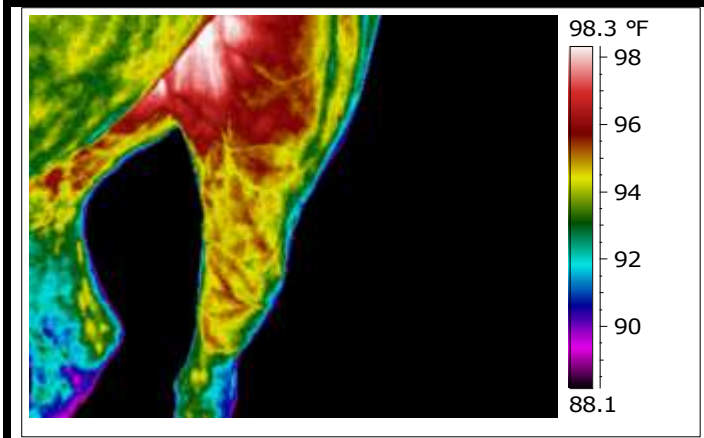


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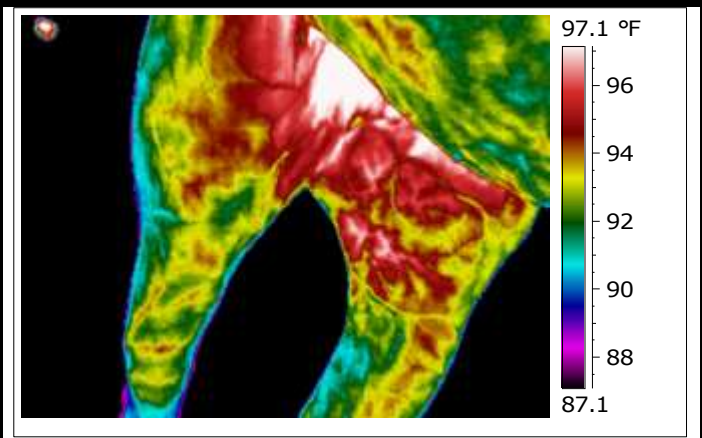


Image.File name 31.jpg Image.Date 8/24/2014 Image.Time 11:31:07 AM
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NSF: No Significant Findings

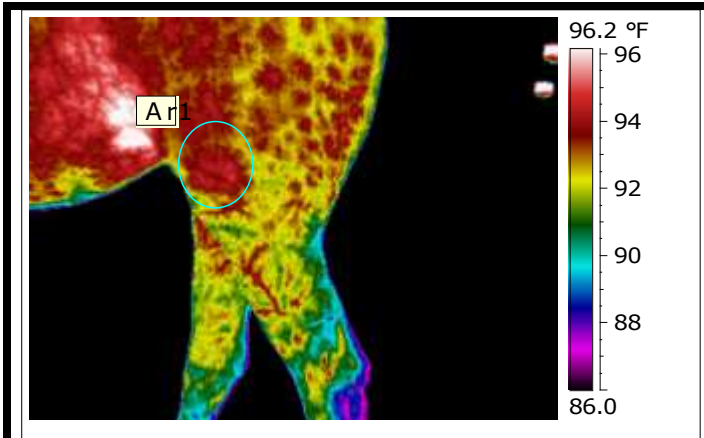


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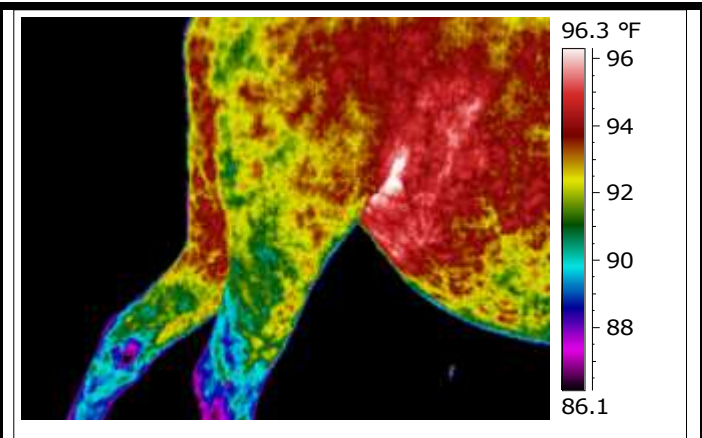


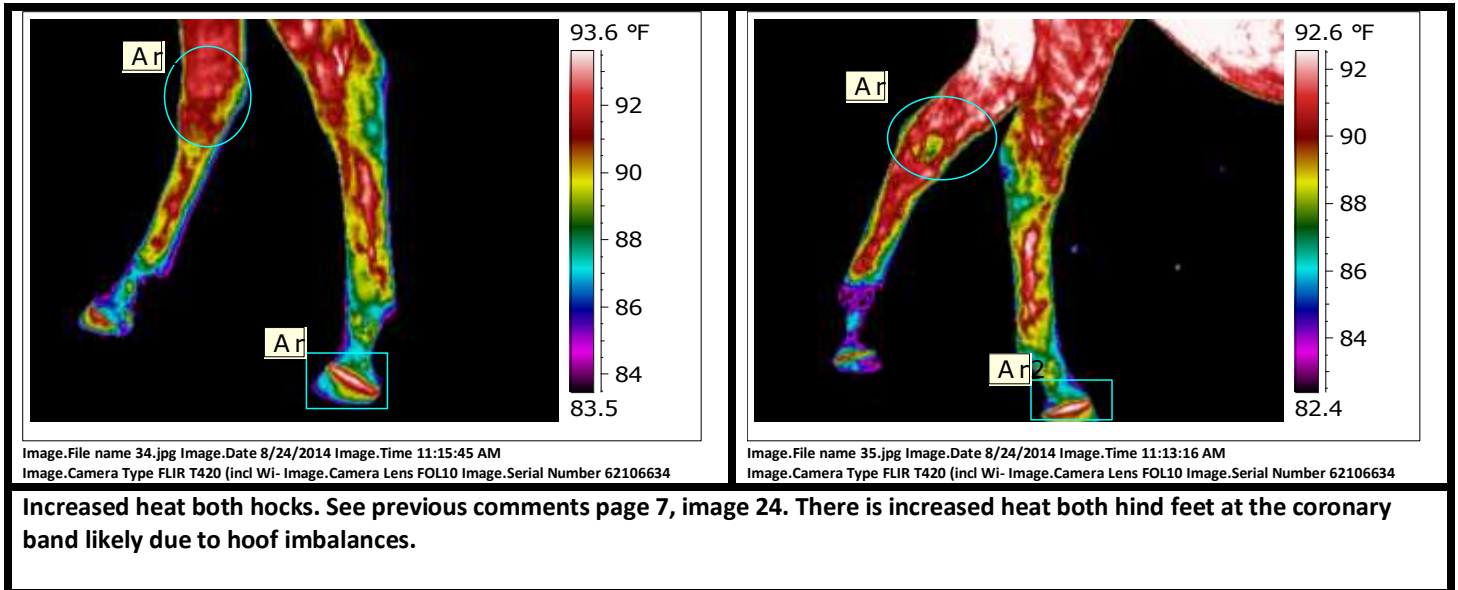
Image.File name 33.jpg Image.Date 8/24/2014 Image.Time 11:13:57 AM
Image.Camera Type FLIR T420 (incl Wi- Image.Camera Lens FOL10 Image.Serial Number 62106634

Some increased heat lateral left stifle. Palpation recommended.

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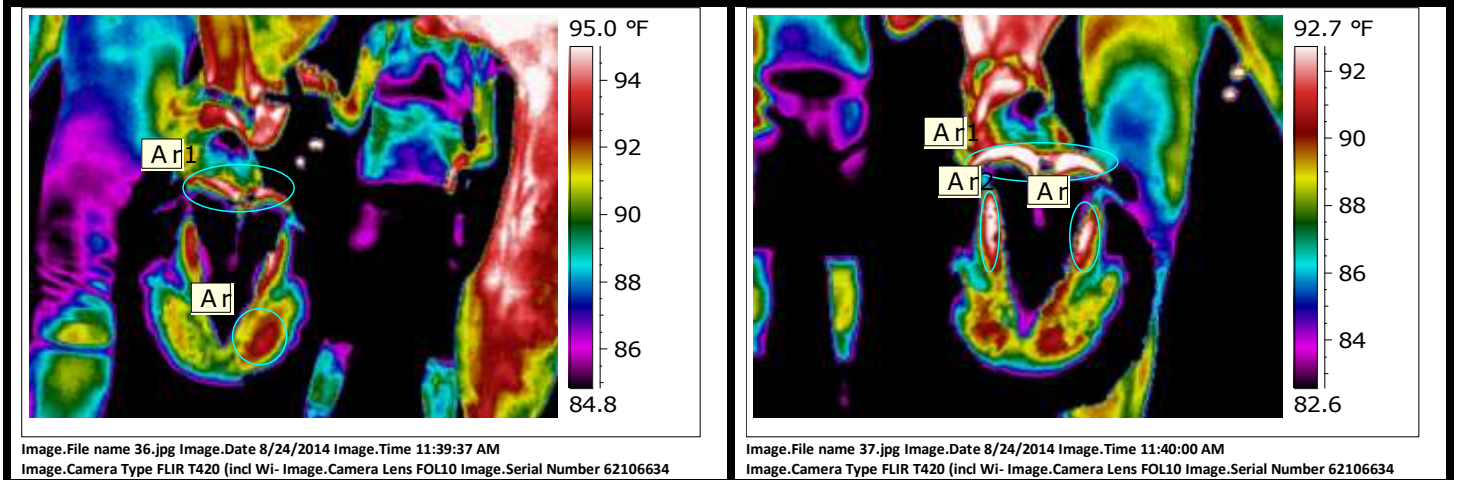
IMAGING TIME:11:10



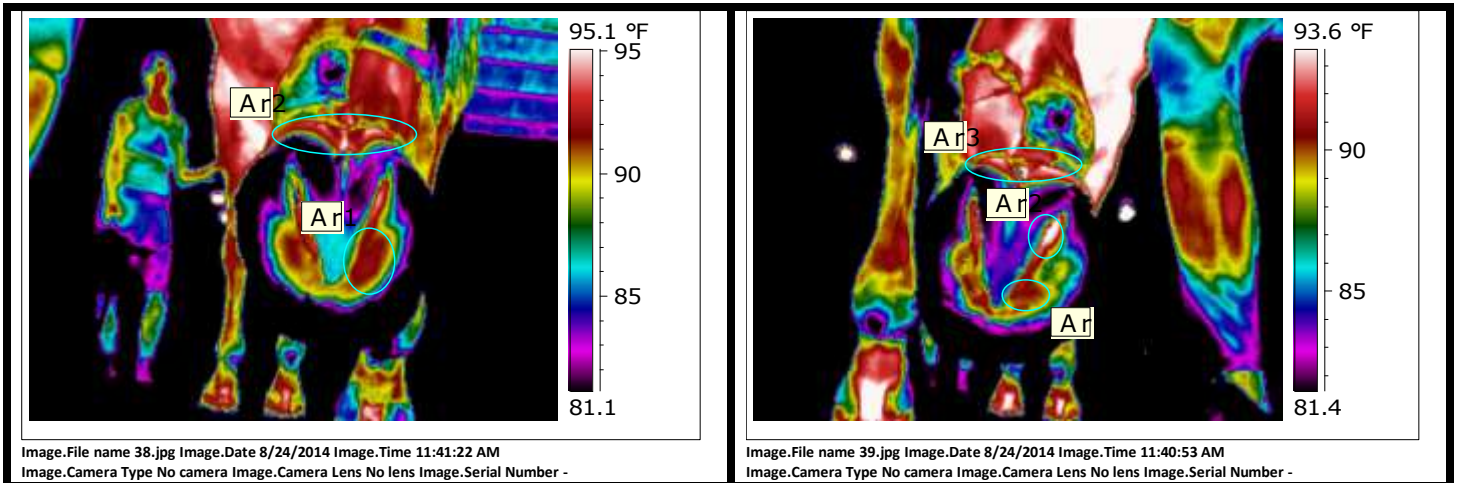
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Increased heat at the heel bulbs both hind feet. The right hind has increased heat in the collateral grooves of the frog which may be due to infection. Deep probing of the grooves recommended. Debris in the feet precludes thorough evaluation.



There is increased heat in the heels and uneven pressure in the soles. Too much debris in the feet precludes thorough evaluation.

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SUMMARY AND RECOMMENDATIONS: Scandel is a nice looking young mare with some things to consider based on the thermal images evaluated.

There is increased heat at the cervical-thoracic junction extending into the mid-scapula. Thorough veterinary chiropractic evaluation of this area and its associated structures is recommended, including the first rib. There is increased heat along the thoracolumbar spine, particularly at the thoracolumbar junction with extension into the surrounding musculature. Chiropractic lesions and saddle fit issues are likely present. Veterinary chiropractic evaluation and saddle fit analysis recommended. Saddle fit scan would also be of value for follow-up after chiropractic and saddle fit adjustments are made.

There is increased heat in the hocks which is not unusual in young horses in training but still should not be ignored. Flexion testing recommended and joint support in the form of oral supplements and/or Adequan injections. I would recommend avoiding joint injections in a young horse if possible.

The right front feet has increased heat with extension into the soft tissue, including the medial aspect of the flexor tendons, suspensory and check ligaments. Palpation recommended.

There is increased heat all four feet and at the heels. Hi/Lo heel syndrome in the front feet with left front foot having the higher heel. There is too much debris present in the feet for a good analysis but feet appear out of balance, hind feet heels appear low and sole appears thin. Many times Thoroughbreds and Warmbloods cannot maintain soundness without being shod due to thin soles and low heels on a large horse, this is particularly true in a performance horse. This may be the case for this mare.

Thank You!

Reviewing Veterinarian: Debra K Tibbitts, DVM, CVCP, EDO, CVA , CIT

