



EXAMINATION PROCEDURES

Essential features of a thorough examination include the following:



 Medical history of the horse. The veterinarian asks the owner questions relating to past and present difficulties of the horse.
 He/she also inquires about exercise or work requirements and any other pertinent information.

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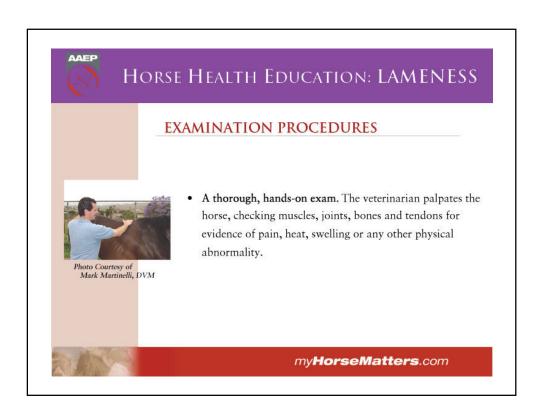


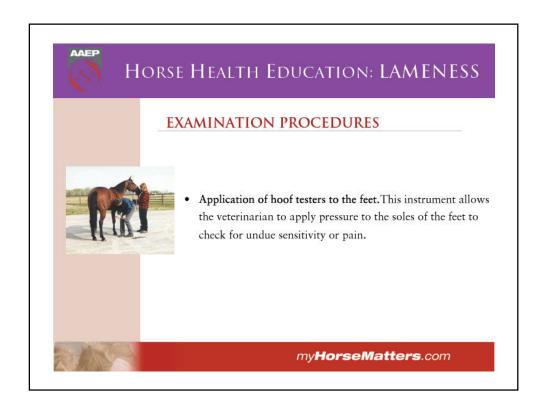
HORSE HEALTH EDUCATION: LAMENESS

EXAMINATION PROCEDURES



 A visual appraisal of the horse at rest. The veterinarian will study conformation, balance and weight bearing, and look for evidence of injury or stress.







EXAMINATION PROCEDURES





Evaluation of the horse in motion. The veterinarian watches
the horse walking and trotting. Observing the horse from the
front, back and both side views, the veterinarian notes any
deviations in gait (such as winging or paddling), failure to
land squarely on all four feet and the unnatural shifting of
weight from one limb to another.

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EXAMINATION PROCEDURES

The horse will also be observed walking and trotting in circles, on a longe line, in a round pen and under saddle. The veterinarian looks for some of these signs:

- Shortening of the stride
- Irregular foot placement
- Head bobbing
- Stiffness
- Weight shifting



EXAMINATION PROCEDURES



Photo Courtesy of Mark Martinelli, DVM

 Joint flexion tests. The veterinarian holds the horse's limbs (one at a time) in a flexed position and then releases the leg.
 As the horse trots away, the veterinarian watches for signs of pain, weight shifting or irregular movement.

Flexing the joints in this manner may reveal problems that are not otherwise readily apparent.

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DIAGNOSTIC TESTS

Diagnostic procedures are often necessary to isolate the specific location and cause of lameness. If your veterinarian has cause for concern based on initial examination, he/she may recommend further tests including:

- Diagnostic nerve or joint blocks
- MRI

- Nuclear scanning

- Ultrasound

- Arthroscopy

- Radiographs
- Examination of blood,
- Thermography

synovial fluid and tissue samples



DIAGNOSTIC TESTS

Diagnostic nerve and joint blocks. These analgesic techniques
are perhaps the most important tools used to identify the location
of lameness. Working systematically, the veterinarian temporarily
deadens sensation to specific segments of the limb, one region or
joint at a time, until the lameness disappears.

This procedure isolates the area of pain causing the lameness. Blocks can also help determine whether the condition is treatable.

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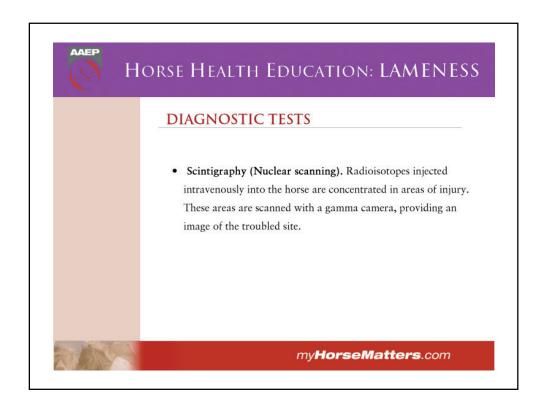
DIAGNOSTIC TESTS

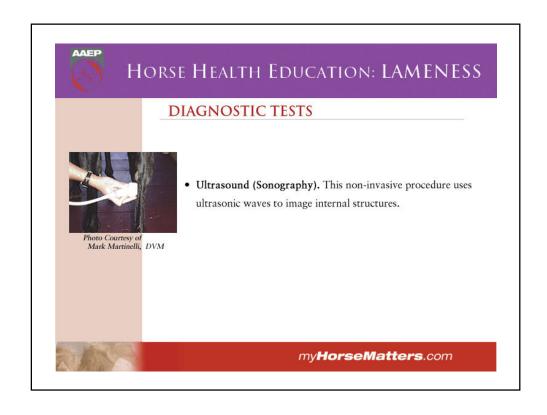


Photo Courtesy of Purina

 Radiographs. These are useful in identifying damage or changes to bony tissues. An experienced and knowledgeable veterinarian should interpret them, since not all changes are cause for concern.

Radiographs provide limited information about soft tissue, such as tendons, ligaments or structures inside the joints, which are often the source of lameness.







DIAGNOSTIC TESTS

Arthroscopy. This surgical procedure allows visual examination
of the inside of a joint or tendon sheath. It requires general
anesthesia, but may be the only way to define the damage. Some
diagnoses can only be made with arthroscopy. If deemed necessary,
surgical treatment is often performed at the same time.

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DIAGNOSTIC TESTS



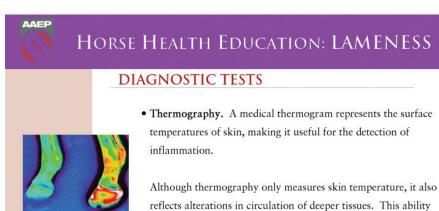
 Blood, synovial (joint) fluid and tissue samples. These samples can be examined for infection or inflammation. Such examinations usually require laboratory testing.



DIAGNOSTIC TESTS

• MRI (Magnetic Resonance Imaging). Images are created by large magnets that spin around a body part. For this reason, only body parts that can fit inside a tube (head and legs) can be imaged by this technique. In the future, we may be able to image the entire horse using this technique, but larger magnets and/or larger tubes are needed.

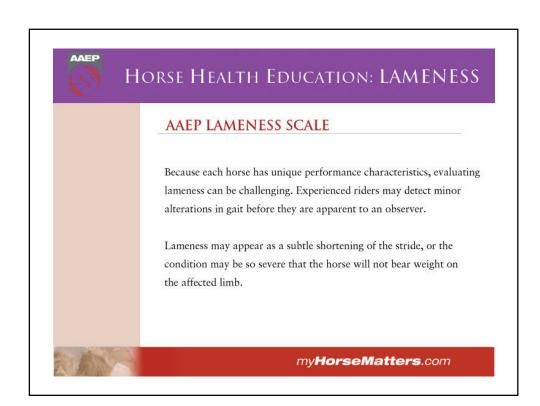
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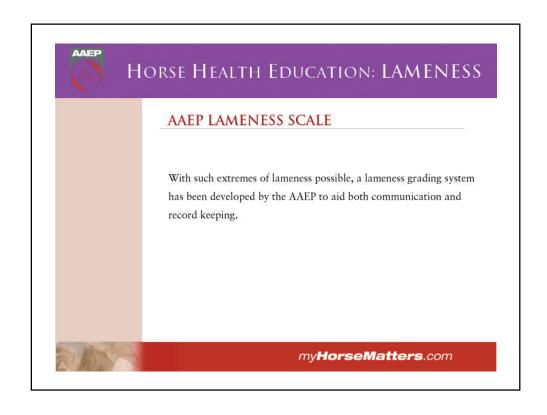


imaging tool to aid in diagnosis of certain equine lameness conditions.

to assess inflammatory changes makes thermography an ideal

Photo Courtesy of Harry Werner, VMD







AAEP LAMENESS SCALE

The scale ranges from zero to five, with zero being no perceptible lameness, and five being most extreme. The AAEP guidelines explain the grading system this way:

0: Lameness not perceptible under any circumstances.

1: Lameness is difficult to observe and is not consistently apparent, regardless of circumstances (i.e. under saddle, circling, inclines, hard surface, etc.)

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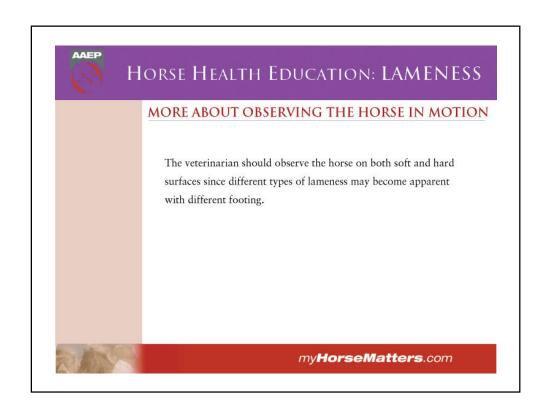
HORSE HEALTH EDUCATION: LAMENESS

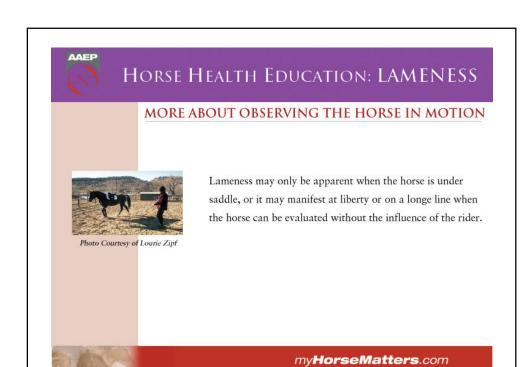
AAEP LAMENESS SCALE



- 2: Lameness is difficult to observe at a walk or when trotting in a straight line, but consistently apparent under certain circumstances (i.e. weight carrying, circling, inclines, hard surface, etc.)
- **3:** Lameness is consistently observable at a trot under all circumstances.











MORE ABOUT OBSERVING THE HORSE IN MOTION



Photo Courtesy of Purina

The trot is perhaps most useful for evaluating lameness since it is the simplest gait, consisting of a two-beat stride pattern, where the horse's weight is distributed evenly between diagonal pairs of legs.

In some cases, the speed and concussion of a faster pace (canter, gallop) is needed to help demonstrate the lameness and may be best appreciated when the horse is ridden under saddle, performing the intended athletic effort.

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Horse Health Education: LAMENESS

LAMENESS EVALUATIONS IN RELATION TO PURCHASE EXAMS

Evaluation for the presence of lameness should be part of every purchase evaluation. While it is impossible to predict a horse's actual performance, the veterinarian can provide information regarding lameness or potential lameness by evaluating:

- Conformation
- Movement
- Medical history
- Past performance
- Existing medical conditions



Horse Health Education: LAMENESS

LAMENESS EVALUATIONS IN RELATION TO PURCHASE EXAMS



Courtesy of Mark Martinelli, DVM

The extent of the exam will be determined by the buyer and veterinarian. Value, intended use and long-term goals may be factors in selecting certain exam procedures.

Radiographs, sonograms and other diagnostic tests provide comprehensive pictures of the horse's condition, but they also add to the exam's cost.

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HORSE HEALTH EDUCATION: LAMENESS

LAMENESS EVALUATIONS IN RELATION TO PURCHASE EXAMS



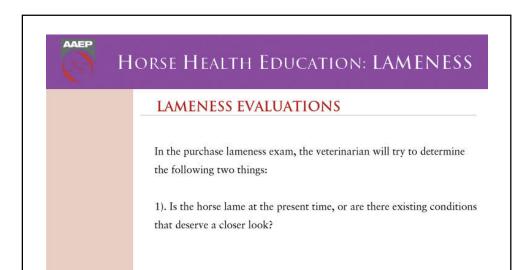
Photo Courtesy of The Horse

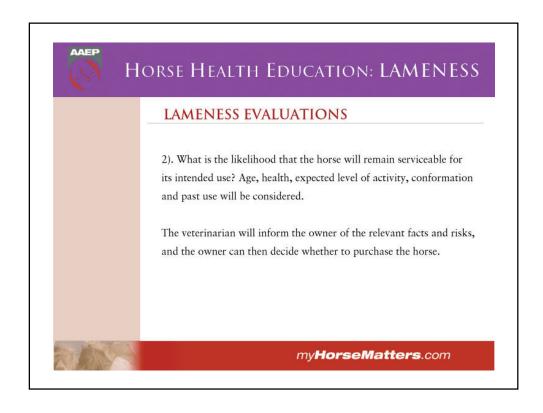
The most important question your veterinarian will ask is:

"What will you be doing with this horse?"

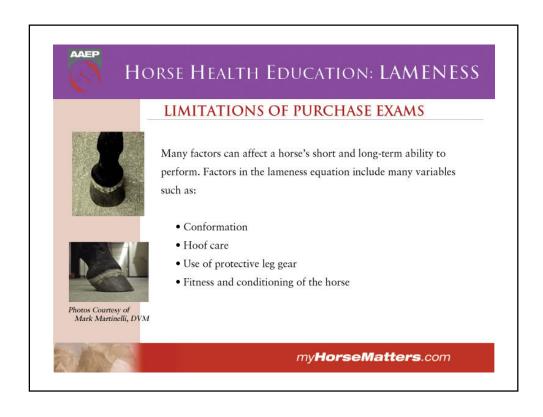
Your veterinarian will then weigh conformation, movement and medical considerations against the type and level of performance expected.

A horse that is fine for a daily pleasure ride may not hold up under more strenuous activities.

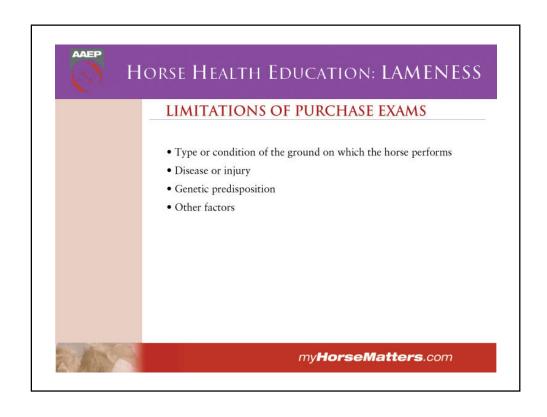








HORSE HEALTH EDUCATION: LAMENESS LIMITATIONS OF PURCHASE EXAMS • Degree and manner of training • Type and level of performance • Age • Skill, balance, and experience of the rider myHorseMatters.com





LIMITATIONS OF PURCHASE EXAMS



Photo Courtesy of Lourie Zipt

In order for your veterinarian to evaluate a horse fairly, the animal should be fit, conditioned, and in training for its intended use.

A horse that has been laid off for an extended time will be difficult to evaluate for lameness.

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HORSE HEALTH EDUCATION: LAMENESS

LIMITATIONS OF PURCHASE EXAMS

One option may be to ask that the horse be returned to training and then re-examined after 30-60 days.

Depending on the horse's value, such a request may be reasonable. Ask your veterinarian.

