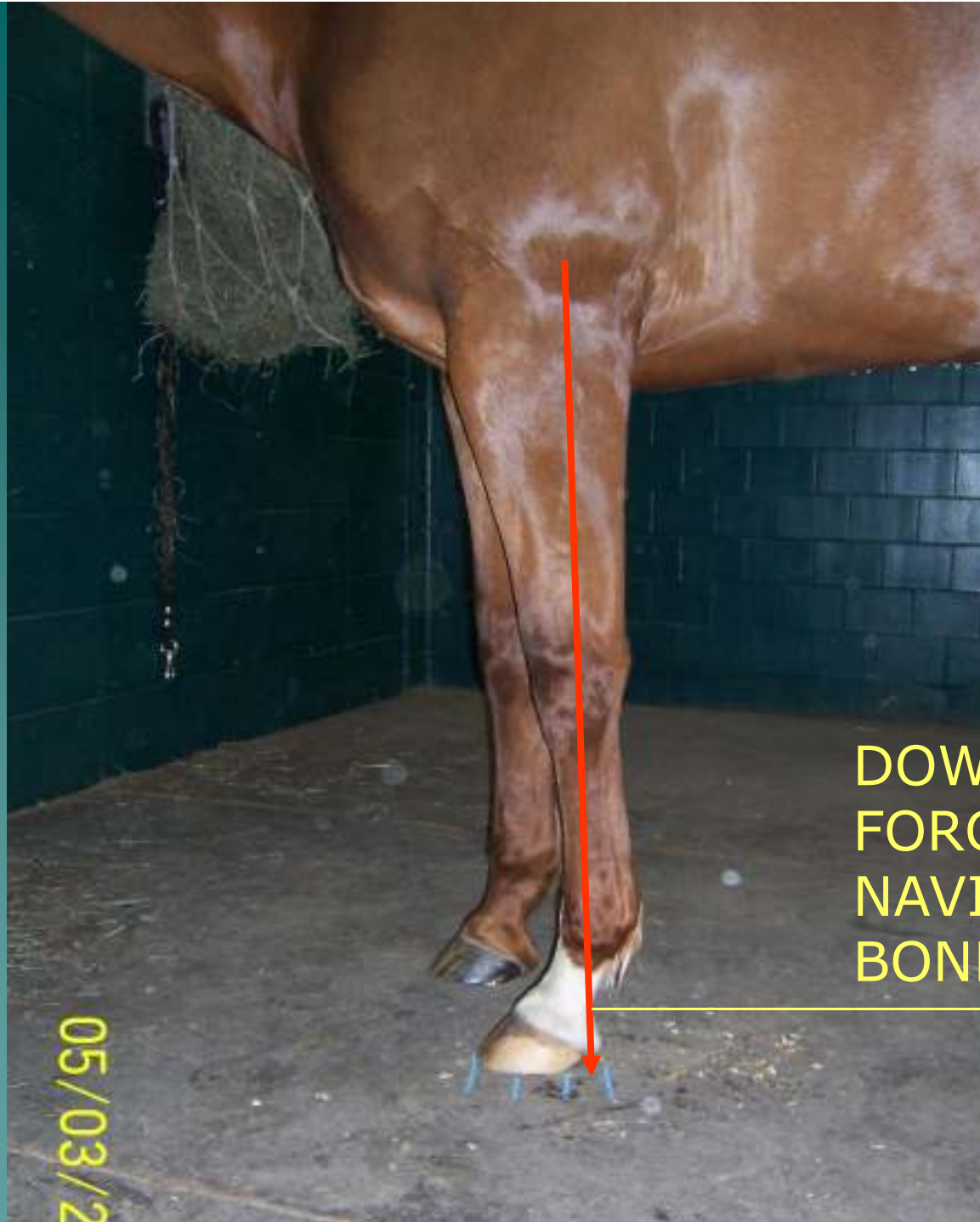


TRENDY

NAVICULAR DISEASE TREATMENT

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This Quarter Horse mare came to the Equine Hospital at Cornell University with a history of progressive lameness over 5 years. After an MRI, calcifications were found on her deep flexor tendons where they move over her navicular bursa. Deterioration of both navicular bones was also determined with radiographs. When presented to the Resident Farrier for shoeing recommendations, he decided to analyze the mechanics of the conformation by mapping the hoof structures. A contributing factor to this lameness is this horse's conformation, heavy on the forehead, downward forces coming down behind her feet.



DOWNWARD
FORCES BEHIND
NAVICULAR
BONE

05/03/2

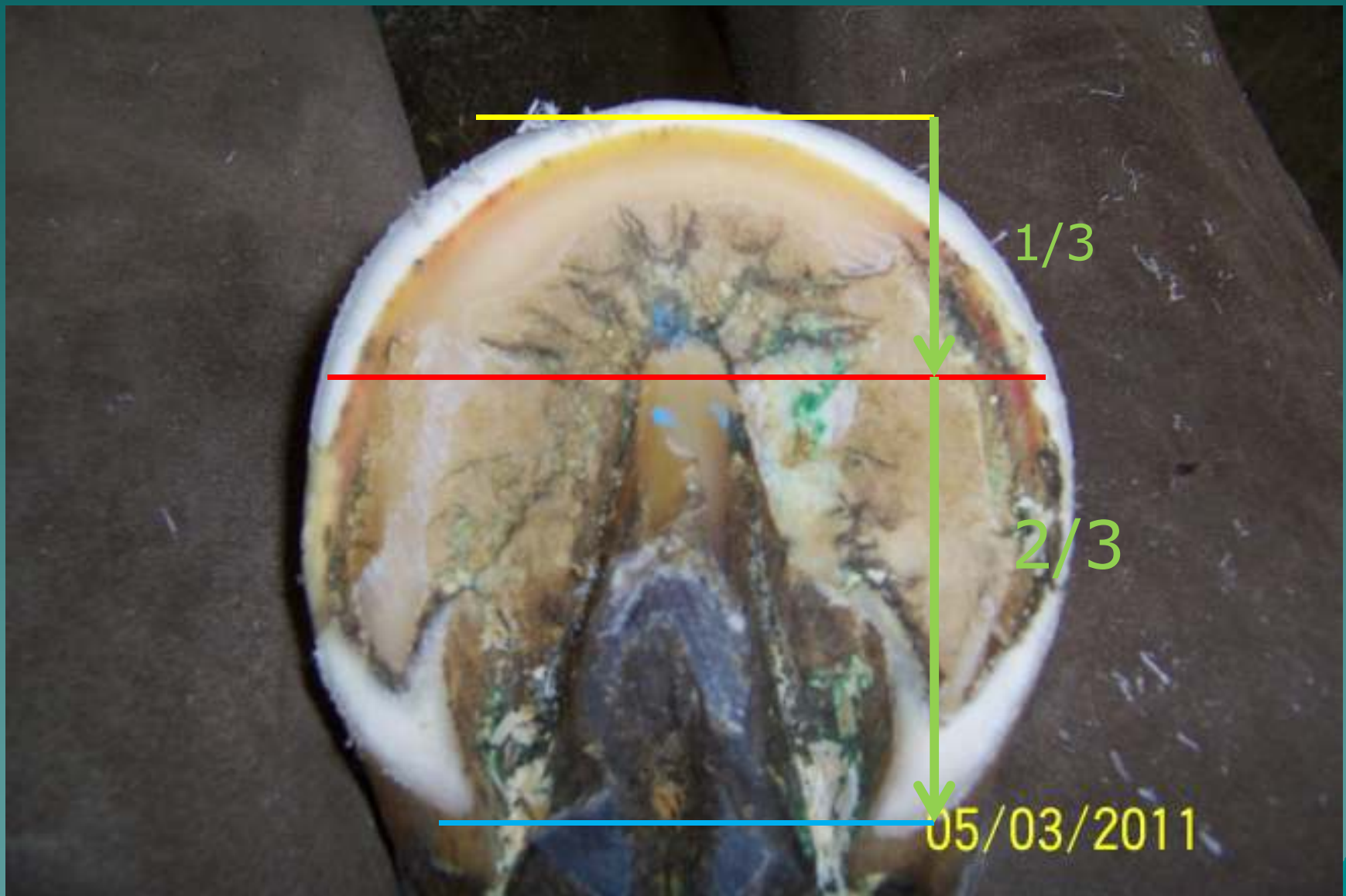
The blue mark on her foot is perpendicular to $3/8$ " behind the tip of her frog. That cannot be changed. The blue line at the toe can be changed by trimming. The blue line by the red arrow is the point of the heel, that can be changed by trimming. This is an under run heel. The blue line behind the heel, dropped from the hairline is the unsupported distance behind the hoof. That cannot be changed.

CHRONIC LAMENESS



1/3, 1/3, 1/3 = LAME HORSE

After trimming, heels brought back toward widest part of frog. Now hoof has better anterior/posterior balance. Frog is still slightly posterior and needs support. Trimming to 1/3 in front of frog apex, 2/3 behind to heels is best AP mechanics.



POST TRIMMING-NOTE FROG IS
STILL BEHIND POINT OF HEELS

Using the Denoix reverse navicular shoe, leverage is decreased for breakover. Weight bearing at widest part of hoof is increased, support behind heel is increased.

AFTER SHOEING
NOTE CHANGE IN LINES
TOE BACKED UP, INCREASED SUPPORT



Proper application of shoe:

REVERSE NAVICULAR SHOE



See how the lines have been changed
by trimming and shoeing:





AFTER

BEFORE

05/03/2011

Red plumb line has moved forward:



AFTER

BEFORE

Too much distance from apex of frog to breakover.

Change this with trimming, enhance it with shoe.

RIGHT FRONT

NOTE DISTANCE FROM FROG APEX TO TOE



RF AFTER TRIM



Right front after trimming, better
proportion of lines:







RF SHOD

NOTE CHANGE IN LINES



1/3, 2/3 ratio restored:



THE WAY IT SHOULD BE

