

STRESS FRACTURES OF THE TIBIA AND HUMERUS IN THE THOROUGHBRED RACEHORSE

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STRESS FRACTURES ARE A WELL-RECOGNISED INJURY CAUSE OF LAMENESS AND POOR PERFORMANCE IN THOROUGHBRED RACEHORSES.

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tress fractures are most frequently reported in the cannon bone (bucked shins), tibia, humerus, radius, and the pelvis.

Tibial stress fractures occur most commonly in the unraced two-year old, with stress fractures of the humerus more common in the three-year old. Any age of horse can be affected. In the tibia and humerus, incomplete fractures have been implicated in the progression to more catastrophic fractures, making the rapid diagnosis and management important in the young racehorse.

The diagnosis of a tibia stress fracture can be challenging even with the most advanced imaging. Lameness grades observed in

horses with incomplete stress fractures of the tibia and humerus is wide ranging, however a majority of horses will typically show minimal, to no observable lameness at the walk. At the trot, lameness is usually consistent. In tibial stress fractures, a classic 'bunny hop' gait may be observed. Horses can often be seen with an acute lameness that occurs during training, becoming significantly more comfortable in the following 24 hours. This lameness is typically unresponsive to routine limb flexion and nerve blocks. Radiographs of the tibia and humerus are rarely conclusive for a diagnosis of a stress fracture, however these images are beneficial to monitor change one the

location and diagnosis is confirmed.

Initially, radiographs frequently of minimal benefit for a diagnosis. In most cases, radiographs play a role after the location of injury is confirmed, but for a definitive diagnosis nuclear scintigraphy (bone scan) is required. Nuclear scintigraphy involves access to a referral hospital, where the horse is injected with a short acting radioactive pharmaceutical that is attracted to sites of bone turnover. The horse then generates the own radiation while standing in-front of a specialised camera (gamma-camera), to create the images of bone and identify fractures, undetectable with radiographs. A diagnosis can then be made, and the veterinarian can then develop a suitable management and monitoring plan. The radioactive pharmaceutical then leaves the horses blood stream and urine after 48 hours and the horse is again safe to handle.

Stress fractures of the tibia can occur equally in left and right hind limbs, with minimal influence of track direction. Stress fractures of the humerus, were reported to occur slightly more frequently in the left forelimb in a study of horses on clockwise direction tracks. Treatment and management of stress fractures involves a rest from training, usually with a month of stall rest horses able to move to a paddock once trotting sound for an additional three months. □

LAMENESS GRADES OBSERVED IN HORSES WITH INCOMPLETE STRESS FRACTURES OF THE TIBIA AND HUMERUS IS WIDE RANGING.



BRISBANE RACING CLUB@DOOMBEN

SATURDAY, 09 FEBRUARY 2019
TAB MEETING
LUNAR NEW YEAR RACEDAY

OPEN HANDICAP 1350 METRES

Of \$75,000: 1st \$42,700, 2nd \$14,350, 3rd \$7,350, 4th \$3,500, 5th \$2,100, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

BENCHMARK 75 HANDICAP 2200 METRES

Of \$75,000: 1st \$42,700, 2nd \$14,350, 3rd \$7,350, 4th \$3,500, 5th \$2,100, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

BENCHMARK 70 HANDICAP 1050 METRES

Of \$45,000: 1st \$24,400, 2nd \$8,200, 3rd \$4,200, 4th \$2,000, 5th \$1,200, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

CLASS 6 HANDICAP 1600 METRES

Of \$75,000: 1st \$42,700, 2nd \$14,350, 3rd \$7,350, 4th \$3,500, 5th \$2,100, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

CLASS 6 HANDICAP 1200 METRES

Of \$75,000: 1st \$42,700, 2nd \$14,350, 3rd \$7,350, 4th \$3,500, 5th \$2,100, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

CLASS 3 PLATE (SET WEIGHTS) 1600 METRES

Of \$45,000: 1st \$24,400, 2nd \$8,200, 3rd \$4,200, 4th \$2,000, 5th \$1,200, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

QTIS THREE-YEARS-OLD HANDICAP 1350 METRES

For QTIS Fillies 3 year old Horses:
Of \$127,500: 1st \$79,450, 2nd \$24,850, 3rd \$12,600, 4th \$3,500, 5th \$2,100, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

For QTIS 3 year old Horses:
Of \$110,000: 1st \$67,200, 2nd \$21,350, 3rd \$10,850, 4th \$3,500, 5th \$2,100, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

For non-QTIS Horses:
Of \$75,000: 1st \$42,700, 2nd \$14,350, 3rd \$7,350, 4th \$3,500, 5th \$2,100, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

QTIS THREE-YEARS-OLD HANDICAP 1050 METRES

For QTIS Fillies 3 year old Horses:
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For QTIS 3 year old Horses:
Of \$110,000: 1st \$67,200, 2nd \$21,350, 3rd \$10,850, 4th \$3,500, 5th \$2,100, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

For non-QTIS Horses:
Of \$75,000: 1st \$42,700, 2nd \$14,350, 3rd \$7,350, 4th \$3,500, 5th \$2,100, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

QTIS TWO-YEARS-OLD HANDICAP 1200 METRES

For QTIS Fillies 2 year old Horses:
Of \$127,500: 1st \$79,450, 2nd \$24,850, 3rd \$12,600, 4th \$3,500, 5th \$2,100, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

For QTIS 2 year old Horses:
Of \$110,000: 1st \$67,200, 2nd \$21,350, 3rd \$10,850, 4th \$3,500, 5th \$2,100, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

For non-QTIS Horses:
Of \$75,000: 1st \$42,700, 2nd \$14,350, 3rd \$7,350, 4th \$3,500, 5th \$2,100, 6th \$1,000, 7th \$1,000, 8th \$1,000, 9th \$1,000, 10th \$1,000

NOMINATIONS close MONDAY, 04 February 2019, 11:00 AM
WEIGHTS declared TUESDAY, 05 February 2019

ACCEPTANCES due WEDNESDAY, 06 February 2019, 9:00 AM
JOCKEY DECLARATIONS WEDNESDAY, 06 February 2019, 12:00 PM
FINAL SCRATCHINGS SATURDAY, 09 February 2019, 7:30 AM

CAIRNS JOCKEY CLUB

SATURDAY, 09 FEBRUARY 2019
TAB MEETING
QTIS JEWEL QUALIFIER

QTIS JEWEL QUALIFIER THREE-YEARS-OLD HANDICAP 950 METRES

Should a QTIS registered horse win this race, the standard winners prizemoney for this race will be doubled from \$9,200 to \$18,400 plus standard QTIS bonuses. The winner of this race, so long as otherwise eligible, shall be granted exempt free status from the ballot for the 2019 QTIS 3YO Jewel 1200m (\$165,000) to be conducted at the Gold Coast TC on Saturday March 16, 2019.

For QTIS Fillies 3 year old Horses:
Of \$34,500: 1st \$21,950, 2nd \$6,450, 3rd \$3,400, 4th \$750, 5th \$450, 6th \$300, 7th \$300, 8th \$300, 9th \$300, 10th \$300

OPEN HANDICAP 1250 METRES

Of \$14,500: 1st \$8,000, 2nd \$2,600, 3rd \$1,300, 4th \$700, 5th \$400, 6th \$300, 7th \$300, 8th \$300, 9th \$300, 10th \$300

BENCHMARK 65 HANDICAP 1500 METRES

Of \$14,500: 1st \$8,000, 2nd \$2,600, 3rd \$1,300, 4th \$700, 5th \$400, 6th \$300, 7th \$300, 8th \$300, 9th \$300, 10th \$300

CLASS 2 PLATE (SET WEIGHTS) 950 METRES

Of \$14,500: 1st \$8,000, 2nd \$2,600, 3rd \$1,300, 4th \$700, 5th \$400, 6th \$300, 7th \$300, 8th \$300, 9th \$300, 10th \$300

MAIDEN PLATE (SET WEIGHTS) 1250 METRES

Of \$14,500: 1st \$8,000, 2nd \$2,600, 3rd \$1,300, 4th \$700, 5th \$400, 6th \$300, 7th \$300, 8th \$300, 9th \$300, 10th \$300

QTIS TWO-YEARS-OLD MAIDEN HANDICAP 950 METRES

For QTIS Fillies 2 year old Horses:
Of \$32,500: 1st \$20,750, 2nd \$6,050, 3rd \$3,100, 4th \$700, 5th \$400, 6th \$300, 7th \$300, 8th \$300, 9th \$300, 10th \$300

For QTIS 2 year old Horses:
Of \$26,500: 1st \$16,500, 2nd \$4,900, 3rd \$2,500, 4th \$700, 5th \$400, 6th \$300, 7th \$300, 8th \$300, 9th \$300, 10th \$300

For non-QTIS Horses:
Of \$14,500: 1st \$8,000, 2nd \$2,600, 3rd \$1,300, 4th \$700, 5th \$400, 6th \$300, 7th \$300, 8th \$300, 9th \$300, 10th \$300

NOMINATIONS close MONDAY, 04 February 2019, 11:00 AM
WEIGHTS declared TUESDAY, 05 February 2019
ACCEPTANCES due THURSDAY, 07 February 2019, 9:30 AM
JOCKEY DECLARATIONS THURSDAY, 07 February 2019, 12:00 PM
FINAL SCRATCHINGS SATURDAY, 09 February 2019, 7:30 AM

GOLD COAST TURF CLUB

SATURDAY, 09 FEBRUARY 2019
TAB MEETING
AQUIS CHINESE NEW YEAR RACEDAY

BENCHMARK 70 HANDICAP 1800 METRES

Of \$21,000: 1st \$11,650, 2nd \$3,800, 3rd \$1,900, 4th \$1,000, 5th \$650, 6th \$400, 7th \$400, 8th \$400, 9th \$400, 10th \$400

CLASS 3 HANDICAP 1400 METRES

Of \$21,000: 1st \$11,650, 2nd \$3,800, 3rd \$1,900, 4th \$1,000, 5th \$650, 6th \$400, 7th \$400, 8th \$400, 9th \$400, 10th \$400

CLASS 2 HANDICAP 1200 METRES

Of \$21,000: 1st \$11,650, 2nd \$3,800, 3rd \$1,900, 4th \$1,000, 5th \$650, 6th \$400, 7th \$400, 8th \$400, 9th \$400, 10th \$400

COLTS, GELDINGS AND ENTIRES CLASS 1 HANDICAP 1400 METRES

Of \$21,000: 1st \$11,650, 2nd \$3,800, 3rd \$1,900, 4th \$1,000, 5th \$650, 6th \$400, 7th \$400, 8th \$400, 9th \$400, 10th \$400

SATURDAY 09 FEBRUARY

Miles District Amateur Picnic Race Club
\$45,000 in prizemoney and bonuses
incl \$9,000 Murilla Cup (1200m Open H.)
www.facebook.com/milesraces
SAT FEB 9 2019
Welcome back to Miles!
ND00911AA