

Risk factors for lameness elimination in British Endurance riding

Bloom, Fiona; Draper, Steve; Bennet, Euan; Marlin, David J; Williams, J. M.

Published in:
Equine Veterinary Journal

Publication date:
2023

The re-use license for this item is:
CC BY-NC-ND

This document version is the:
Other version

The final published version is available direct from the publisher website at:
[10.1111/evj.13875](https://doi.org/10.1111/evj.13875)

Find this output at Hartpury Pure

Citation for published version (APA):

Bloom, F., Draper, S., Bennet, E., Marlin, D. J., & Williams, J. M. (2023). Risk factors for lameness elimination in British Endurance riding. *Equine Veterinary Journal*, 55(4), 632-641. <https://doi.org/10.1111/evj.13875>

1
2
3

Table S1: Potential risk factors identified from Endurance GB database

Potential risk factor	Categorisation	Description
Horse gender	Binary	Male/ Female
Horse age	Categorical	Horse age on day of ride,
Horse breed	Binary	'Arabian bloodlines' and 'Non-Arabians'
Returning combination	Binary	Had the horse and rider competed as a combination previously
Rider gender	Binary	Male/ Female
Rider age	Binary	Senior rider over 21 years of age or not
Class Code	Binary	Graded Endurance Ride or Competitive Endurance Ride
Distance	Categorical	Ride distances of 64-160km
Level if Fédération Equestre Internationale	Categorical	Categories correspond to Fédération Equestre Internationale categories
Year of competition	Binary	2017 or 2018
Days since previous competition	Categorical	Number of days since previous competitive start
Career length of horse (years)	Categorical	How many years of competitive history did the horse have recorded on the database
Career length of horse (days)	Categorical	How many days of competitive history did the horse have recorded on the database
Career rides attempted	Categorical	Number of rides attempted in the career of the horse
Career rides completed	Categorical	Number of rides completed in career of the horse
Career distance attempted	Categorical	Distance (km) attempted in the career of the horse
Career distance completed	Categorical	Distance (km) attempted in the career of the horse
Outcome of previous ride	Categorical	Pass, Retired on course, Eliminated-Lame, Eliminated-including all other reasons for failure

Number of eliminations in career	Categorical	The total number of times the horse was eliminated in its competitive career
Number of lameness eliminations in career	Categorical	The total number of times the horse was eliminated due to lameness in its competitive career
Days since previous elimination	Categorical	The number of days since the previous elimination of the horse
Days since previous lameness elimination	Categorical	The number of days since the horse previously was eliminated due to lameness
Distance attempted last 30 days	Categorical	Competitive distance horse attempted in last 30 days
Distance attempted last 60 days	Categorical	Competitive distance horse attempted in last 60 days
Distance attempted last 90 days	Categorical	Competitive distance horse attempted in last 90 days
Distance attempted last 180 days	Categorical	Competitive distance horse attempted in last 180 days
Distance attempted last 365 days	Categorical	Competitive distance horse attempted in last 365 days
Distance completed last 30 days	Categorical	Competitive distance horse completed in last 30 days
Distance completed last 60 days	Categorical	Competitive distance horse completed in last 60 days
Distance completed last 90 days	Categorical	Competitive distance horse completed in last 90 days
Distance completed last 180 days	Categorical	Competitive distance horse completed in last 180 days
Distance completed last 365 days	Categorical	Competitive distance horse

Distance change since previous ride(km)	Categorical	completed in last 365 days Did the horse compete at a higher, lower or same distance compared to its previous ride
Distance change since previous ride(percentage)	Categorical	How much did the distance increase or decrease by percentage compared to the previous ride
Number of competitive starts in last 30 days	Categorical	Number of competitions horse started in last 30 days
Number of competitive starts in last 60 days	Categorical	Number of competitions horse started in last 60 days
Number of competitive starts in last 90 days	Categorical	Number of competitions horse started in last 90 days
Number of competitive starts in last 180 days	Categorical	Number of competitions horse started in last 180 days
Number of competitive starts in last 365 days	Categorical	Number of competitions horse started in last 365 days
Number of successful completions in last 30 days	Categorical	Number of competitions horse successfully completed in last 30 days
Number of successful completions in last 60 days	Categorical	Number of competitions horse successfully completed in last 60 days
Number of successful completions in last 90 days	Categorical	Number of competitions horse successfully completed in last 90 days
Number of successful completions in last 180 days	Categorical	Number of competitions horse successfully completed in last 180 days
Number of successful completions in last 365 days	Categorical	Number of competitions horse successfully

Eliminated last 30 days	Binary	completed in last 365 days Was the horse eliminated in the last 30 days?
Eliminated last 60 days	Binary	Was the horse eliminated in the last 60 days?
Eliminated last 90 days	Binary	Was the horse eliminated in the last 90 days?
Eliminated last 180 days	Categorical	Number of times the horse was eliminated in last 180 days
Eliminated last 365 days	Categorical	Number of times the horse was eliminated in last 365 days
Eliminated lame last 30 days	Binary	Was the horse eliminated lame in the last 30 days?
Eliminated lame last 60 days	Binary	Was the horse eliminated lame in the last 60 days?
Eliminated lame last 90 days	Binary	Was the horse eliminated lame in the last 90 days?
Eliminated lame last 180 days	Binary	Was the horse eliminated lame in the last 180 days?
Eliminated lame last 365 days	Binary	Was the horse eliminated lame in the last 365 days?
Rider previous eliminations	Categorical	Number of times rider recorded an elimination outcome in their career
Rider previous lameness eliminations	Categorical	Number of times rider has recorded a lameness elimination outcome in their career
Combination previous eliminated	Binary	Had the horse and rider combination previously recorded an elimination outcome
Combination previous eliminated lame	Binary	Had the horse and rider combination previously recorded a lameness elimination outcome

4
5
6
7