Is the use of haynets for horses associated _____ with increased health risks?

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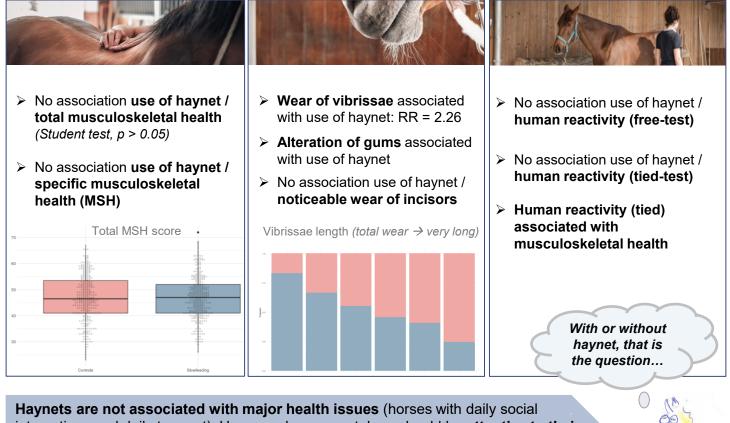
- Horses have evolved to graze up to 16 hours/day (van Dierendonck *et al.*, 1996)
- Their diet should be high in fibre and fasting periods should not exceed 4 hours to prevent physiological (gastric ulceration (Destrez et al., 2015)) and psychological (boredom and aggressiveness (Thorne et al., 2005)) issues
- But ad libitum hay: rarely possible without risking obesity or metabolic diseases (especially for easy-keeping horses)
 - How to fulfill the horses' physiological and behavioural needs without risking excess weight?

«Slowfeeders» (SF)

- Mechanically slow down hay intake
- Different materials and various shapes (nets, metal grid ...)
- Positive effect on horses' stress and friendliness towards humans (Zeitler-Feicht *et al.*, 2005, Rochais *et al.*, 2018))
- Potential long-term effects on health haven't been studied yet

1) Online questionnaire: 1'480 answers \rightarrow 80% of SF = haynets & horses with SF = particular profile (stratas) **2)** Pilot-study (42 horses) \rightarrow power analysis: N_{needed} = 670

- Retrospective cohort study: 702 horses (350 with haynets / 352 control)
- > Musculoskeletal health (MSH) assessment and control of gums, teeth and vibrissae
- Human Reactivity Test



Haynets are not associated with major health issues (horses with daily social interactions and daily turn out). However, horse caretakers should be attentive to their horses' gums and vibrissae. Haynets could be considered for horses whose physiological and behavioural needs cannot be met without risking obesity. Finally, more experimental studies are needed to evaluate the effects of the dispensers' characteristics (height, mobility, inclination) on horses' MSH.

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