

DESIGN OF A WELFARE PROTOCOL TO ASSESS A GROUP OF HORSES



HOW TO REACH A

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INTRODUCTION AND AIMS OF THE PROJECT

Animal welfare is a multidimensional concept defined as a state of complete mental and physical health where the animal is in harmony with its environment. The public interest in welfare has constantly grown in the last few decades, so the EU has developed a project called Welfare Quality® to standardize some bases in order to assess the animal welfare. Due to this multidimensionality, it is meaningful to use multicriteria aggregation systems to obtain an overall welfare score with environmental-based and specially animal-based indicators.



The aim of the project is to assess the welfare of Guàrdia Urbana horses (Barcelona) through a protocol based on the AWIN welfare assessment protocol for horses. Moreover, it will be interesting to find a relation between stereotypic behavior and the time of the day

MATHERIAL AND METHODS

34 housed male horses in Guàrdia Urbana's box stall, 3 of which are male geldings. 21 of them were selected for this study

Stalling conditions:





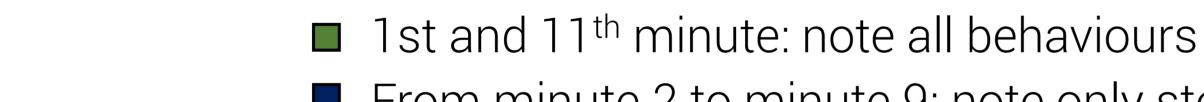


6-8 times/day ad-libitum 30 min to 2h/day



| <u>Protocol</u> - Applied 6 times | | | . Indicators used to asses horse's welfare |
|-----------------------------------|--------------------------------|----------------------------------|--|
| | Body condition score | Water availability | Bedding |
| | Box dimensions | Integument alterations | Swollen joints |
| | Lameness | Hair coat condition | Signs of hoof neglect |
| | Lesions at mouth corners | Social interaction | Stereotypies |
| | Relationship human-animal (AD) | Relationship human-animal (VAAT) | Relationship human-animal (FHA) |

Stereotypies - Applied 4 times





From minute 2 to minute 9: note only stereotypic behaviour 9'

WELFARE CATEGORY Study of indicators: feasible, reliable, valid Standardized bases: AWIN protocol 1st visit to understand 3 horses management Protocol design Protocol re-evaluation Assessment visits 6 Data collection Data combination: criteria scores Data combination: principles scores Data combination: 9 welfare category

PROTOCOL RESULTS Figure 1. Proportion of horses for which the indicator is satisfied 100% 99% 88% 70% 60% 50% 40% 40% 30% 20% 10% 0%

**** = Body Condition Score, Hair coat condition, Signs of hoof neglect, Social interaction, Stereotypies

RESULTS ON STEREOTYPIES

Data collected: 84 observations of 11 minutes

- → In 83 of them any stereotypic behavior was observed (98,8%).
- → Aerophagia was observed in one horse (1,2%) who already entered the group with this stereotypic behavior.

CONCLUSIONS

Nowadays it is not possible to determine a welfare category for a horse group, so further investigation is needed.

Guàrdia Urbana horses reach the maximum score (100%) in 5 indicators and in 8 others a score between 100% and 80% is achieved

Welfare Quality protocols are a dynamic tool and must be adapted for every one situation

^{1.} AWIN. 2015. AWIN welfare assessment protocol for horses.