Magnesium alterations on horses suffering from colic

UNIVERSITAT Autònoma de Barcelona

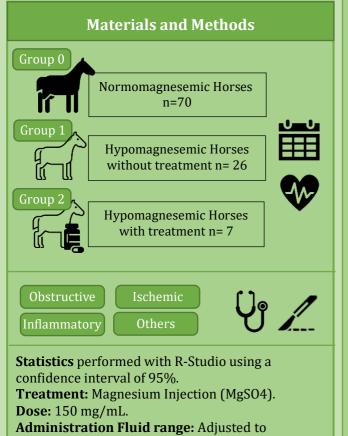
Fundació Hospital Clínic Veterinari UAB. Unitat Equina

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Introduction and Objectives

Objectives:

- 1. Analyse the effect of intravenous Magnesium supplementation on hypomagnesemic horses with colic
- 2. Analyse the prevalence of hypomagnesemia on different types of colic.

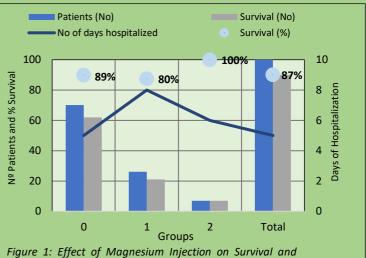


Analysis of the samples performed with Stat Profile Prime Plus Vet Analizer, Nova Biomedical, Waltham, MA, USA.

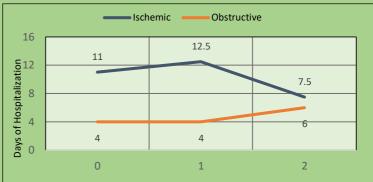
Results and Discussion

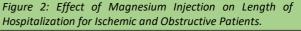
Survival: Although we have seen differences in the survival percentage between the groups, statistically aren't considered as significant.

Length of hospitalization: Statistically differences were found between group 0 and 1. To see if there could be other factor inflecting the results a second classification was performed attending the etiology. In our population ischemic animals reduce their hospitalization days when treated with magnesium injection.



Length of Hospitalization.





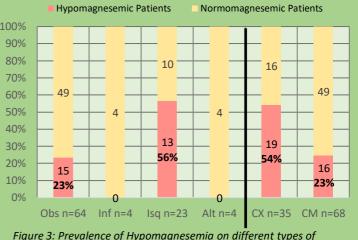


Figure 3: Prevalence of Hypomagnesemia on different types of colic.

Conclusion

Horses in the ischemic and surgical group have the highest prevalence of Hypomagnesemia.

More research must be done to properly evaluate the effect of supplementing with magnesium injection horses with hypomagnesemia. The results of this study suggest that the treatment could benefit ischemic colic reducing the hospitalization days.