



EVALUATION OF THE BENEFITS OF THE USE OF THE PAPER BEDDING

FOR HORSES: ANALYTIC STUDY

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INTRODUCTION

In the month of February of this year a paper bedding has been introduced on the market and has been realized for horses. This innovation (Litter Relaxing trade), patented and wholly “made in Italy”; it is the result of the industrial revolution of paper coming only from newspapers return graphics printing and / or pictorial material net. A proper machine manufacturing and the relevant dust collection, give birth to a product which is totally void of inhaling dusts, with the capacity of water retention highly superior to the straw and alternative bedding and even less a specific emission of ammonia distinctly reduced creating so, in the box, a healthy environment without smell and without the use of added chemical additives as happens for other chemical products present on the market.

Our analytic study aim is to test clinically the real benefits coming from the use of this bedding for horses suffering from allergies, considering the influence that the stabling environment has on the same.

MATERIAL AND METHODS

In a population of 20 horses affected by respiratory, cutaneous or mixed illness, (respiratory and cutaneous) of allergic suspected pathogenesis, 5 cases have been identified (TABLE 1) with the highest clinic expression of the symptomatology. These subjects have been put through blood exams at zero time and cutaneous scarified for who suffers from a dermatologic symptomatology. The samples have been sent to the laboratory Alergovest SL ©(results alleged).

TABLE 1

Sample	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Sex	Stallion	Gelding	Gelding	Gelding	Gelding
Age	10 years	6 years	12 years	26 years	8 years
Race	Hannover	Italian saddle	Hannover	Irish pony	Italian saddle
Aptitude	Jump	Jump	Jump	Pass	Jump
Clinical signs	Respiratory	Cutaneous	Respiratory and cutaneous	Respiratory	Respiratory
Previous treatments	Bronchodilator mucolytic Aerosol	Cortisone Antihistamine	Bronchodilator mucolytic Aerosol Cortisone Antihistamine	Bronchodilator mucolytic Aerosol Hyaluronic acid vaporization	Bronchodilator mucolytic Aerosol
Correlated exams	Blood count PET ELISA ®	Blood count PET ELISA	Blood count PET ELISA	Blood count PET ELISA	Blood count PET ELISA

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The hematological, serological (PET ELISA) and microscopic (scarified) results have confirmed the presence of the allergic illness. So the common bedding has been replaced with the paper bedding Litter Relaxing for a period, arbitrarily, of two months.

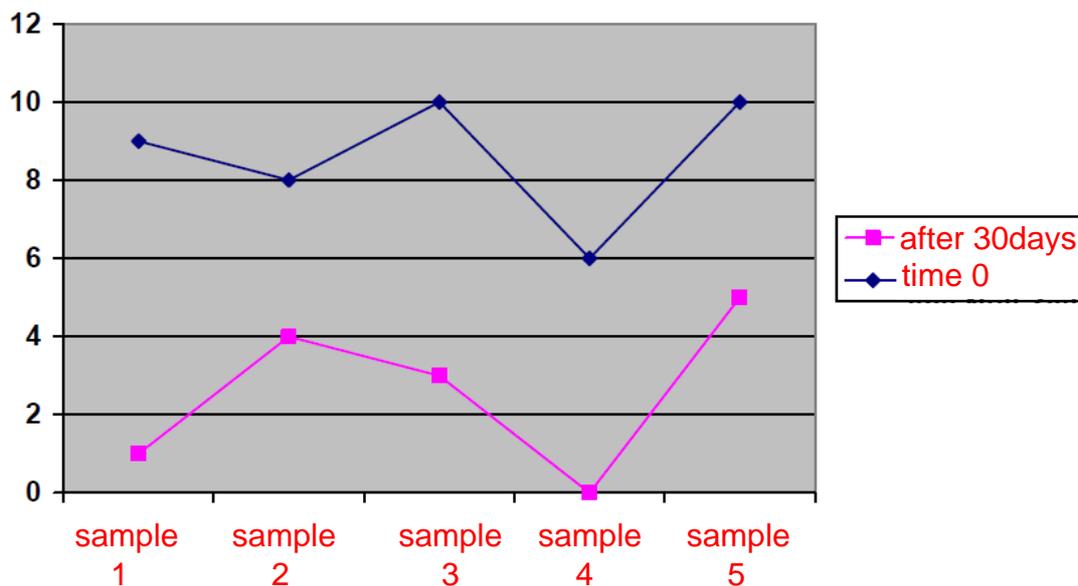
In conjunction with the bedding exchange the pharmacological therapies, applied on these subjects, have been given up.

RESULTS

After 30 days since the beginning of the experimentation, the 50% of the subjects showed the total remission of the symptomatological picture of the initial illnesses, the 30% showed a balanced improving while the 20% remained steady.

According to an analytic point of view, through the study of the checking serologic and blood exams, a halving of the values which were considered indicative of the allergic illnesses (eosinophilia) (GRAPHIC 1) has been noticed and similar answers, also from complete tests (blood and serologic ones), foreseen at the end of the project, are expected.

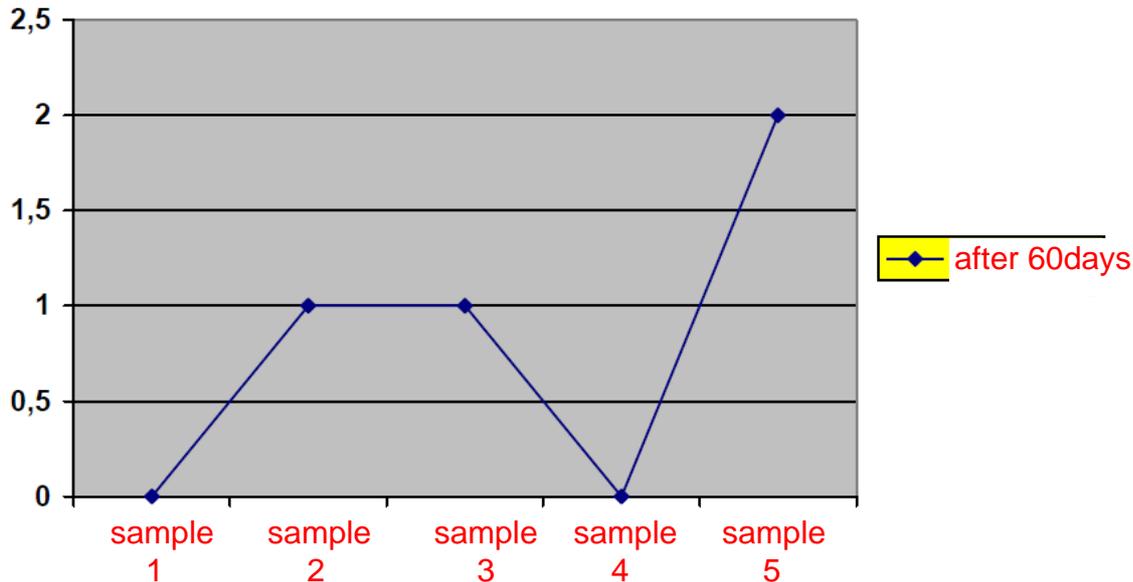
Graphic 1



After 60 days a further reduction of the blood levels of eosinophil is noticed (GRAPHIC 2) while according to a clinic point of view, all the subjects show a marked improvement of the symptoms.

Regarding the case 4, the subject has been put through a support therapy with aerosol through a mask with hyaluronic acid and eucalyptus oil with excellent results.

Graphich 2



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Regarding the case 4, the subject has been put through a support therapy with aerosol through a mask with hyaluronic acid and eucalyptus oil with excellent results.

According to the collected data we can claim the effectiveness of the paper bedding use in the atopic subjects, underlining the role of the environment in these illnesses. In the study we can find the clinic case of a horse suffering from chronic recurrent keratoconjunctivitis with abundant lacrimation. The subject, even though put through many and difficult pharmacological and environmental not effective therapies, shows the overall disappearance of the lacrimation after only three days of housing on the paper bedding. This certifies, more and more, the lack of dust in this bedding and their role in the onset of different illnesses and with different pathogenic mechanisms, not only closely biological but also mechanic.

CONCLUSIONS

The study has showed, during the first part of the path, through the collected results of the analytic laboratory Alergovet, famous in Europe and with the “UE certifications”, the remarkable benefits of the paper bedding Litter Relaxing which thanks to the obtained results can be surely defined without dangerous irritating dusts, both through inhalation and contact. The further evaluation of the data at the end of the study confirm what has been said.



The use of this bedding reveals sure and real benefits for the horse health, having also an important role in the economical management of a stable for the possibility to give up to pharmacological therapies which are expensive in money and management for the operators and the owners of the horses suffering these illnesses.

NOTES

In a second moment it is proposed to check, through another study, also the probable improvement of the performance of these horses through haemogasanalysis tests so that it is possible to certify the best oxygen exchange in organ without the allergic- irritating status.

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