

Accepted Manuscript

The interplay of performing level and conformation – a characterisation study of the Lipizzan riding stallions from the Spanish Riding School Vienna

T. Druml, M. Dobretsberger, G. Brem

PII: S0737-0806(17)30034-5

DOI: [10.1016/j.jevs.2017.06.003](https://doi.org/10.1016/j.jevs.2017.06.003)

Reference: YJEVS 2336

To appear in: *Journal of Equine Veterinary Science*

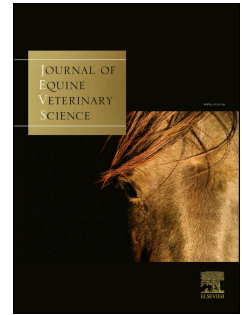
Received Date: 6 February 2017

Revised Date: 16 June 2017

Accepted Date: 20 June 2017

Please cite this article as: Druml T, Dobretsberger M, Brem G, The interplay of performing level and conformation – a characterisation study of the Lipizzan riding stallions from the Spanish Riding School Vienna, *Journal of Equine Veterinary Science* (2017), doi: 10.1016/j.jevs.2017.06.003.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



1 **The interplay of performing level and conformation – a characterisation study of the Lipizzan riding**
2 **stallions from the Spanish Riding School Vienna**

3 Druml, T.¹, Dobretsberger, M.¹ and Brem G.¹

4 ¹ *Institute of Animal Breeding and Genetics, Department for Biomedical Sciences*

5 *University of Veterinary Medicine Vienna, Veterinärplatz 1, A-1210 Vienna*

6
7 **Corresponding author:** Druml Thomas; email: thomas.druml@vetmeduni.ac.at; Institute of Animal
8 Breeding and Genetics, Department for Biomedical Sciences; University of Veterinary Medicine
9 Vienna, Veterinärplatz 1, A-1210 Vienna

10

11 **Abstract:**

12 Classical dressage and the schools above the ground as performed in the Spanish Riding School
13 Vienna, require special psychological and physical properties from riding horses. To document the
14 training and performing level of the Lipizzan riding stallions from the Spanish Riding School Vienna
15 we analysed the horses' performance traits retrieved from chief riders' evaluations in relation to
16 training levels and age classes and we studied the interplay of performing status with the horses'
17 body shape. In total the mean age of all 80 riding stallions was 11.9 years (min 4 years, max. 26
18 years). Completely trained stallions (competition level S and higher) were on average 15.6 years old
19 (min. 10 years, max. 26 years). From ten recorded performance traits (five physical traits and five
20 psychological traits) walk, trot and collection ratings showed significant differences for levadeurs,
21 caprioleurs and courbetteurs, the psychological traits reactivity, diligence and sensibility showed
22 significant differences between age class (3-4 years, 5-8 years, 9-16 years, >16 years) and number of
23 flying gallop changes. Further we found, that 80% of the chief riders' ratings of physical performance
24 traits reached significant levels in the shape regressions, indicating an association of their ratings
25 with body shape variation. The resulting mean body shapes from the significant regressions,
26 illustrated the requirements of the school above the ground and the classical dressage on the horses'
27 conformation. We showed that the evaluation of subjective ratings on valuating scales applying
28 shape regressions can help to optimize the quality of scoring data in equine performance traits.

29

30 **Keywords:** Dressage; performance level; rater reliability; shape regression; Geometric
31 Morphometrics

32

33 **1. Introduction**

34 The Spanish Riding School (SRS) in Vienna, which was founded in 1672 and built in 1735, is the only
35 one equestrian institution worldwide, that has a continuous line of development from the very first
36 beginning of equestrian arts in renaissance times up to nowadays. Although comparable schools
37 were spread all over Europe, they were closed during the 19th and the early 20th century. Another
38 characteristic is the focus of this equestrian institution on classical dressage (champagne school) and
39 on schools above the ground [1,2], following the principles of a horse-adequate and age-adequate
40 training method. Together with the Federal Austrian stud farm in Piber the Spanish Riding School
41 represents a complex where both, the breeding of horses and the equestrian part interact with each
42 other. The aim of the stud farm is to deliver adequate riding stallions, whereas the School acts like a
43 testing station interacting with selection decisions in breeding matters. Up to now the equestrian

Download English Version:

<https://daneshyari.com/en/article/8483324>

Download Persian Version:

<https://daneshyari.com/article/8483324>

[Daneshyari.com](https://daneshyari.com)