

Foal weaning in Italy: management and factors associated with the development of abnormal behaviours



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In free ranging horses, weaning is gradually initiated by the dam at around 9 months, whereas domestic horses are weaned often abruptly at around 5-6 months.

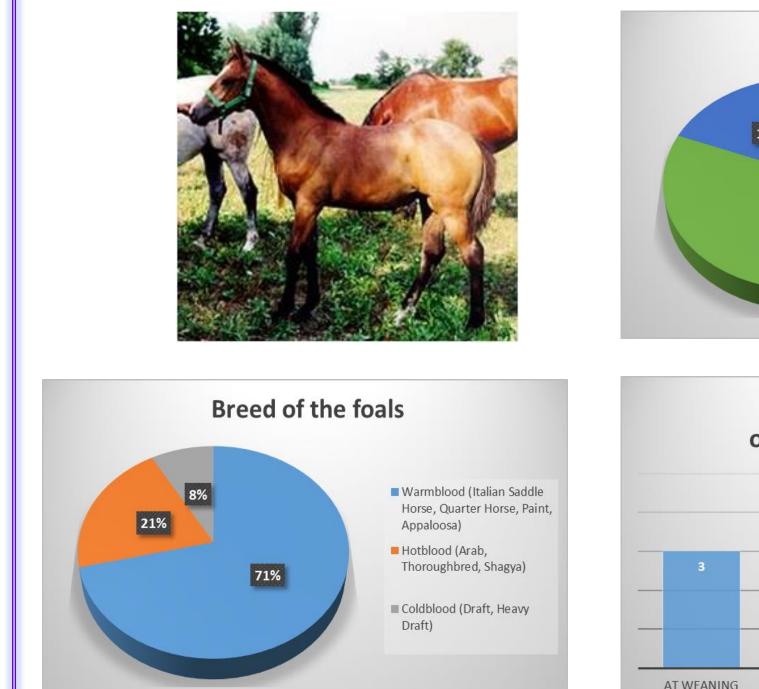
This, together with other management practices, possibly causes stress to the foal and is considered a risk factor in the development of abnormal behaviors, such as weaving, box walking, wind suckling and wood chewing. These stereotypic behaviors are quite a common feature in sport horses.

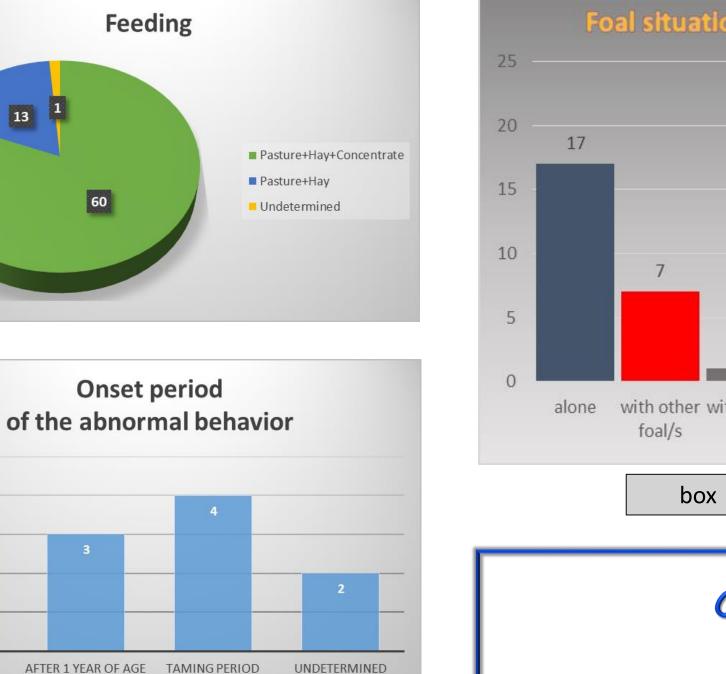
A survey was carried out to assess pre-weaning and weaning management practices, with the aim to investigate possible risk factors associated with the development of abnormal behavioral patterns.

MATERIALS AND METHODS

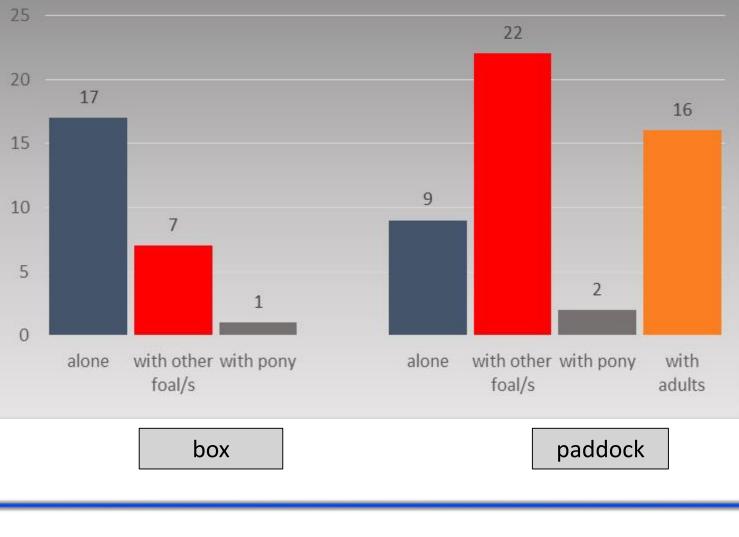
An online survey was carried out according to Parker et al. (2008):

- 22 questions concerning preand weaning management and behavior of both foals and mares.
- Studied factors: breed, feeding practices, weaning management, paddock size and housing type
 - Data from 74 breeders of Central-Northern Italy, describing **148 horses**









CONCLUSIONS

• The high percentage of mares and foals

RESULTS and DISCUSSION

Abnormal behavior type and frequency in general (mares and foals together): oral-ingestive stereotypies (65%) - wood chewing most frequent (35%).

12 foals out of 74 showed abnormal behavior (16.2%)

- Expression of foal's normal behavior is negatively affected if the dam is aggressive toward humans (P< 0.05, χ^2 test).
- Following factors showed a trend for significance (P< 0.1):
- abnormal behavior in mares
 development of abnormal behavior in foals; 3 out of 8 stereotypic mares had foals with the same behavior.
- mare's dominant attitude in the herd

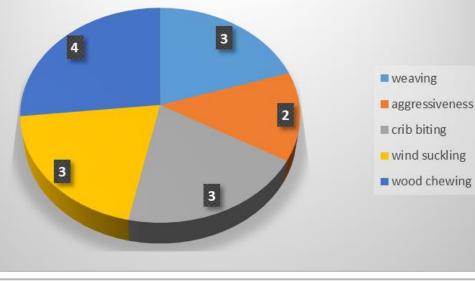
 dominant foal behavior
- foal's early handling by humans negatively associated with dominant behavior

(Dominant, middle- or low-ranking horse: in accordance to the number of threats given and received in the herd)

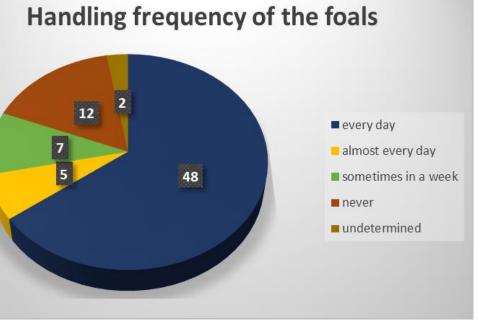
Comparing results to similar surveys:

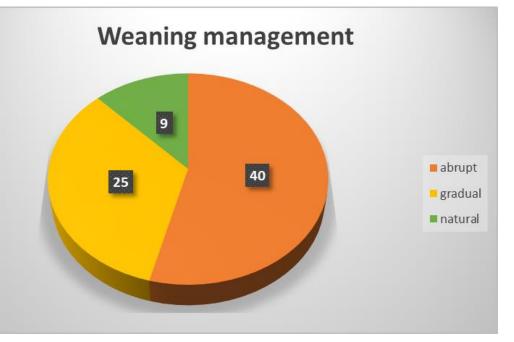
- Italian breeders wean their foals mostly abruptly at an average age of 7 months vs 5-6 in other Countries
- Higher average percentage of horses with abnormal behaviors: 13.5% (foals 16.2%; mares 10.9%) of the sample vs a mean of 5.2% from other studies





Two foals displayed 2 combined abnormal behaviors





presenting abnormal behaviors is symptom of problems in the management of the observed horses. Anyway, probably due to the small size of the sample,

- the study of management risk factors evidenced only trends for associations between the studied factors and the onset of undesired behaviors.
- Mares aggressive towards humans are associated with foals not expressing the complete range of normal behaviors typical of their age.
- Similar surveys are carried out since years in other Countries and a reduction in the incidence of behavioral problems was observed afterwards, probably due to the consequent increased awareness of the breeders.



