Accepted Manuscript

Influence of maternal age and parity on placental structure and foal characteristics from birth up to two years of age

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PII: S0737-0806(16)30697-9

DOI: 10.1016/j.jevs.2017.03.226

Reference: YJEVS 2311

To appear in: Journal of Equine Veterinary Science

Received Date: 14 December 2016

Revised Date: 27 March 2017

Accepted Date: 28 March 2017

Please cite this article as: Meirelles MG, Veras MM, Alonso MA, de Fátima Guimarães C, Nichi M, Fernandes CB, Influence of maternal age and parity on placental structure and foal characteristics from birth up to two years of age, *Journal of Equine Veterinary Science* (2017), doi: 10.1016/ j.jevs.2017.03.226.

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ACCEPTED MANUSCRIPT

1	Influence of maternal age and parity on placental structure and foal
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20	Abstract
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22	The foal's weight and height at birth are regarded as important
23	parameters for the equestrian sports industry. Moreover, scientific studies
24	indicate that maternal environment can influence postnatal genetic potential of
25	foals. The purpose of this study was to evaluate the influence of maternal age
26	and parity on placental efficiency and size of the newborn foal using
27	stereological analysis tools of the term's allantochorion. Furthermore, the
28	influence of maternal age and parity on weight, height and girth circumference
29	of the offspring from birth until 2 years of age was investigated. Forty pregnant
30	mares were categorized according to age: 4-8 years (n=15); 9-12 years (n=15);
31	\geq 13 years (n=10) and parity: nulliparous (n=12), 1 to 3 parities (n=18); \geq 4
32	parities (n=10). Parturition was monitored and the allantochorion membranes
33	were collected after delivery. The stereological analysis determined the
34	volumetric composition of the different compartments of the placenta along with

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