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Changes in maternal pregnane concentrations in mares with experimentally-induced, ascending placentitis

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ACCEPTED MANUSCRIPT

1	Revised Clean copy
2	Changes in maternal pregnane concentrations in mares with experimentally-induced, ascending
3	placentitis
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11	Abstract
12	The objectives of this study were to compare via liquid chromatography-tandem mass
13	spectrometry (LC-MS/MS) progesterone (P4), 5α-dihydroprogesterone (DHP),
14	allopregnanolone, 3β-hydroxy-5α-pregnan-20-one (3β5P), 20α-hydroxy-5α-pregnan-3-one
15	(20 α 5P), 5 α -pregnan-3 β ,20 α -diol ($\beta\alpha$ -diol), and 5 α -pregnan-3 β ,20 β -diol ($\beta\beta$ -diol) concentrations
16	in plasma of mares with experimentally-induced, ascending placentitis compared to
17	gestationally age-matched control mares. Placentitis was induced via intracervical inoculation of
18	Streptococcus equi spp. zooepidemicus between 260-280 days of gestation. Placentitis mares
19	were subdivided into those which aborted in less than eight days (n = 6; acute) and those that
20	aborted at ≥ 8 days after inoculation (n = 9; chronic). Ten pregnant mares at similar gestational
21	ages served as healthy controls. Pregnanes were measured for days (-8), -6, -4, -3, -2, -1, and
22	0 days preceding abortion in the treated mares, and for the matched days of gestation in the
23	control mares by LC-MS/MS and by immunoassay for immunoreactive (ir) P4. In mares with
24	chronic placentitis, concentrations of DHP and its downstream metabolites (allopregnanolone,

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