

## Some Studies on Endometritis in Pure Arabian Mares

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**Abstract :** The present investigation has been done on pure Egyptian Arabian mares that reared in private horse studs. Fifty non-pregnant mares were selected and examined to classify them as either being reproductively healthy or subfertile mares including clinical endometritis, early embryonic death, granulosa cell tumor, repeat breeder (post-breeding endometritis), and anoestrus mares. The purpose of the study was to assess oxidative/antioxidant biochemical metabolites, lipogram, trace elements and reproductive hormones throughout reproductive conditions in mares during regular estrous, anestrus, early pregnancy, granulosa cell tumor, ovulation failure, and endometritis. Results showed intensification of the free radical-dependent process in the blood of infertile mare, especially mares with endometritis. Ultrasonography as a diagnostic tool diagnosis of endometritis in mares was an important step as it revealed much information concerning infertility problem.

**Keywords :** endometritis, ovulation, oxidative, mare

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