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Veterinari Medicina

Effects of Bai zhu san (*Atractylodis macrocephalae*) decoction on cellular immunity and Th1/Th2 cytokine ratio in a Mifepristone-induced murine abortion model

Geng MY, Yuan FZ, Wang XD, Zhong XH:

Veterinari Medicina, 59 (2014): 424-432

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Chinese herbal medicine has been used as an anti-abortive treatment in farm animals for thousands of years. To investigate the anti-abortive functions and mechanisms of Bai zhu san (BZS) on mifepristone (RU-486)-induced abortion, pregnant mice were allocated to different groups as follows: control group receiving neither RU-486 nor BZS; mice receiving RU-486 only; mice treated with both RU-486 and BZS. The results showed that the concentrations of IL-10 and IL-4 in uterine lysates were significantly higher in mice of the BZS + RU-486 group compared with the mice of the RU-486 group. The IL-10 and IL-4 levels in serum

were significantly higher than that in uterus lysates. The IFN- γ concentrations in uterine lysate decreased significantly in mice of the BZS + RU-486 group vs. the RU-486 group. There were no significant differences in IL-2 concentrations between the mice of BZS + RU-486 or RU-486 groups and controls in the uterus and serum. The numbers of CD4+, CD8+T lymphocytes or macrophages in the uterus decreased in the BZS + RU-486 group compared with the RU-486 group. These results indicate that the Chinese herbal formula Bai zhu san inhibits RU-486-induced abortion and modulates the Th1/Th2 cytokine balance at the maternal-foetal interface.

Keywords:

Bai zhu san; mifepristone; cytokine; anti-abortion; CD4+, CD8+T cells

[[fulltext](#)]

