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Yimu San improves obstetric ability of pregnant mice by increasing serum oxytocin levels and connexin 43 expression in uterine smooth muscle

Key words: Yimu San, Delivery ability, Uterine contraction, Oxytocin, Prostaglandin E_2, Connexin 43

Research Summary

This study aims to explore the effects and mechanism of Yi-Mu-San (YMS), a Chinese veterinary medicine micro mist, on delivery ability with mice models, in the following aspects:

- **Effect of YMS on the birth process time and stillbirth rate in mice**
- **Effect of YMS on the contractions of uterine smooth muscle**
- **Effect of YMS on serum oxytocin and PGE_2 levels**
- **Effect of YMS on the expression levels of Cx43 protein in uterine smooth muscle**

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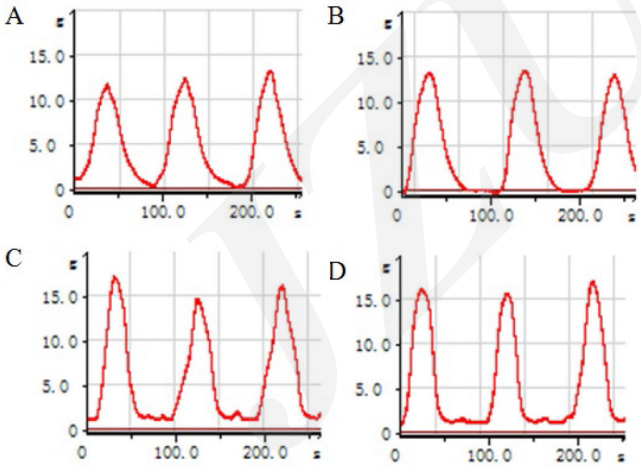
Innovation points

Yi-Mu-San（YMS）

Pregnant mice

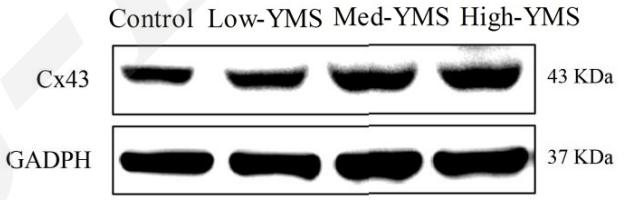
YMS decreases the birth process time and stillbirth

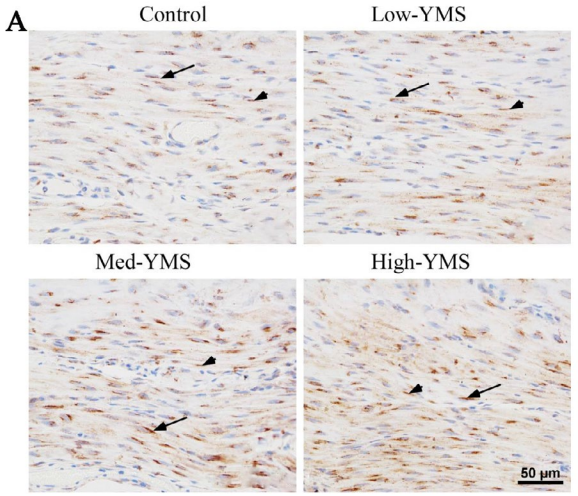
YMS improves the contraction of uterine smooth muscle



Serum oxytocin and PGE_2 levels

Expression of Cx43 in uterine smooth muscle





Yi-Mu-San improves obstetric ability of pregnant mice by increasing serum oxytocin levels and connexin 43 expression in uterine smooth muscle

Innovation points

The effects and mechanism of Yi-Mu-San (YMS) on delivery ability with mice models, are summarized to the following figures.

Figure 1 | Effect of YMS on the labor process time and stillbirth rate in each group.

Figure 2 | Effect of YMS on the contractions of uterine smooth muscle.

Figure 3 | Effect of YMS on serum oxytocin and PGE_2 levels.

Figure 4 | Effect of YMS on the expression levels of Cx43 in uterine smooth muscle.

Figure 5 | Effect of YMS on Cx43 immunoreactivity in myometrium.

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