

## عنوان مقاله:

Effects of Maternal Immune System Status on Neonate's Immune System

## محل انتشار:

مجله علمی ناباروری ایران، دوره 11، شماره 3 (سال: 1399)

تعداد صفحات اصل مقاله: 7

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## خلاصه مقاله:

**Background:** This study evaluated the effects of the maternal immune system stimulation or suppression during the pregnancy on the development of the neonate's immune system. **Methods:** A total of 20 female rats were divided into four groups. The groups were treated using *Leishmania major*, *Salmonella typhimurium*, Tacrolimus, and sterilized normal saline. The animals were mated after 3-time treatments. The neonate's humoral immune response, total body, thymus, liver, spleen weight, and histology were determined in this study. **Results:** The spleen's mean weight of the two-month-old samples showed a significant reduction in the *Salmonella* group; in addition, the Tacrolimus group had a significant reduction in liver mean weight. The *Salmonella* and Tacrolimus groups showed a significant reduction ( $P \leq 0.05$ ) in the anti-sheep red blood cells antibody titer. **Conclusion:** Stimulation or suppression of the immune responses during the pregnancy has significant effects on the neonate's immune responses, spleen, liver, and thymus development.

## کلمات کلیدی:

Immune response, Maternal, neonate, Rat

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1041056>



