P01-256 - **LONG-TERM INFLUENCE OF RATS WITH NEWBORN FLUOXETINE EXPOSURE AT DIFFERENT PERIOD**

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Objective: To evaluate newborn fluoxetine exposure at different period on development and behavior of adult rats.

Methods: Male rat pups were randomized to be treated once daily with fluoxetine(s.c.) or saline(s.c.) during postnatal day 1～7 and postnatal day 8～21. Recorded the body weight. Starting at 90 days of age, all rats were tested with several experimental facilities, including open field test, elevated-plus maze, novelty- suppressed feeding test and forced swim test.

Results:

① Weight gain of rats with fluoxetine exposure during postnatal day 1～7 were lower than controls（$P<0.05$）.

② Exploratory behavior decreased and depression anxiety behavior increased in adult rats with neonatal fluoxetine exposure（$P<0.05$）,and more severe with postnatal day 1～7 exposure（$P<0.05$）.

Conclusions: Newborn fluoxetine exposure may result badness weight gain and depression anxiety behavior in adult rats, and the earlier exposure may accompany the larger risk.

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