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**A study on the influence factors of children's psychological behavior and delivery week****Bin Zhang, Zhong Chen, Aifen Zhou and Zhongqiang Cao**

Wuhan Medical &amp; Healthcare Center for Women and Children, China

**Objective:** To understand the effects of different gestational weeks and delivery method on children's psychological and behavioral development.

**Methods:** 5222 children who were treated by Children's Health Care Center in Wuhan Medical & Healthcare Center for Women and Children from January 2013 to December 2013 were recruited as the study subjects. A retrospective investigation based on a self-made children's neuropsychological development questionnaire was carried out on subjects' mothers. 0 to 6 years old pediatric neuropsychological development checklist revised by the Beijing Institute of Pediatrics was used as standard in children's neuropsychological development test. Univariate analysis, spearman correlation analysis and multiple unconditional logistic regressions were applied.

**Results:** There was a positive correlation between gestational weeks and children's psychological behavior evaluation,  $r=0.170$ . The overall score of children's psychological and behavioral development showed a tendency to increase step by step in gestational age, even though there was no significant difference between 33W- 34W, but a rapid increase can be seen in the rest of the week. There was another rapid increase in 37W, 39W and continued to reach a peak at 40W. Fetal movement in 35W, 37W, 38W showed a rapid increase tendency till to 38W to reach the peak, for the fine action the booming growth periods were 35W, 37W, 38W; the adaptability was increased steadily except a swift change in 36W. The language ability suffered two rapid growth in 33W, 36W; the social behavior score showed a relatively stable trend in the 32W-40W but decline after 41W. There were significant differences in the overall development of psychological behavior between cesarean section and natural childbearing children and in evaluation distribution between cesarean and normal birth children.

**Conclusion:** There is a positive correlation between the gestational age of childbirth and the psychological behavior evaluation of children.

**Recent Publications**

1. Zhang B (2017) Association of pre-pregnancy body mass index, gestational weight gain with cesarean section in term deliveries of China. *Sci Rep.*; 6: 37168.
2. Zhang B (2016) Birthweight percentiles for twin birth neonates by gestational age in China. *Sci Rep.*; 6: 31290.

**Biography**

Bin Zhang has his expertise in maternal and children health care. He is the Dean of Wuhan Medical and Healthcare Center for Women and Children. He has achieved some awards in maternal and children health care field, such as the second prize of Wuhan Scientific, the third prize of Hubei Scientific and technological progress based on his research screening and epidemiology analysis of cervical cancer and breast cancer among 200 thousand rural women in Wuhan. He has also held many social positions, such as the Vice-Chairman of Hubei Women and Children Healthcare Association, the Vice-Chairman of Children Healthcare Special Committee of Hubei Preventive Medical Association, the Vice-Chairman of Hubei Children's Comprehensive Development Association, the Member of Committee of Clinical and Preventive Group of Hygiene Section of Chinese Medical Association (the Special Commission Group).

mchwhzb@163.com