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Explaining the Birth Order Effect: The Role of Prenatal and Early Childhood Investments by Jee-Yeon K. Lehmann, Ana Nuevo-Chiquero, Marian Vidal-Fernández (July 2012)

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Abstract:

The critical role of prenatal and early childhood conditions on adult outcomes has been the focus of a rich body of research. In this paper, we examine various pre- and postnatal investments as possible sources behind the "birth order effect" – significant differences in the educational and labor market outcomes across children of varying birth orders. Taking advantage of a rich set of information on in utero and early childhood conditions in the Children of the NLSY79, we find that, within the same household, siblings of higher birth order experience a lower reduction in cigarette usage during pregnancy, are breastfed less often, and experience less cognitive stimulation and emotional support at ages 0 to 1. Next, we test for the presence of birth order effects in early cognitive and non-cognitive test scores and examine whether these differences can be explained by variations in prenatal and early childhood investments. Although there exists a significant negative relationship between birth order effects in test scores and educational attainment are robust to controlling for variations in early childhood factors.

Text: See Discussion Paper No. 6755

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