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Study of Total Fertility Rate by Birth Order: Models and Applications.

The length of the interval between birth and birth order, and number of married females aged 15-49 in the society compared with total females at the same age have important implications on fertility. So the main objective of the study is to examine the possible association between PB and TFR through the PM. Therefore, the specific objectives of the study are: to investigate the relationship between distribution of birth by birth order and fertility level; to construct a general model to estimate TFR by using PB as an independent variable; to show the property of the PM among countries according to the case of change during different years; to identify the categories of the classifications that PM confirms among the countries under study; to construct specific models for these categories of the classification, measure fertility depending on PB and assured that the constructed models fit the related categories and finally to examine the applicability of these models by applying them on different examples the study recommended to apply the constricted models in Egypt to estimate TFR in each region and each distinct. The constructed models can help to draw a map for fertility in Egypt to put the policy makers in the right position in form of the regions that have high fertility. Also, the constructed models can help to estimate TFR for any region each year to see the change in the fertility level.