

THE CONNECTION BETWEEN THE LUNAR CYCLES AND THE NUMBER OF BIRTHS IN HUNGARY

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OBJECTIVES

A significant connection can be shown between the occurrence of illnesses and the different circumstances which have an effect on the weather. Our aim is to investigate the lower, higher and average number of births on certain days depending on the seasonal lunar cycles.

METHODS

Based on the retrospective data of the National Health Insurance Fund between 2018-2019 we investigated the data of all the Hungarian in-patient hospitals concerning the number of births n=7724. During these 730 days we made three categories of the days: those with lower, those with higher and those with average numbers. Data processing was done by descriptive statistics and two-samples T-test with SPSS programme ($p < 0.05$).

RESULTS

In Hungary there are 248 registered births on an average day. In summer in the last quarter of the lunar cycle if there were no fronts the number of births was the highest, while in autumn at the period of the new moon and without any fronts the number of births was the lowest. When we looked at the different seasons, we saw that the number of births was increased seasonally. A circadian rhythm was shown towards the weekend, the number of births was the highest on Monday and gradually decreased towards the weekend. Concerning the lunar cycles, on average days and at full moon the number of births was significantly higher ($p < 0.05$). If there were no fronts the number of births was significantly higher than during the period when fronts were detected ($p < 0.05$).

CONCLUSIONS

Because of the global warming the climate of our earth is constantly changing hence the weather features of our country have changed over the years. With this study we put great emphasis on the lunar cycles. There is a connection between the number of births and the full moon periods of the lunar cycle.

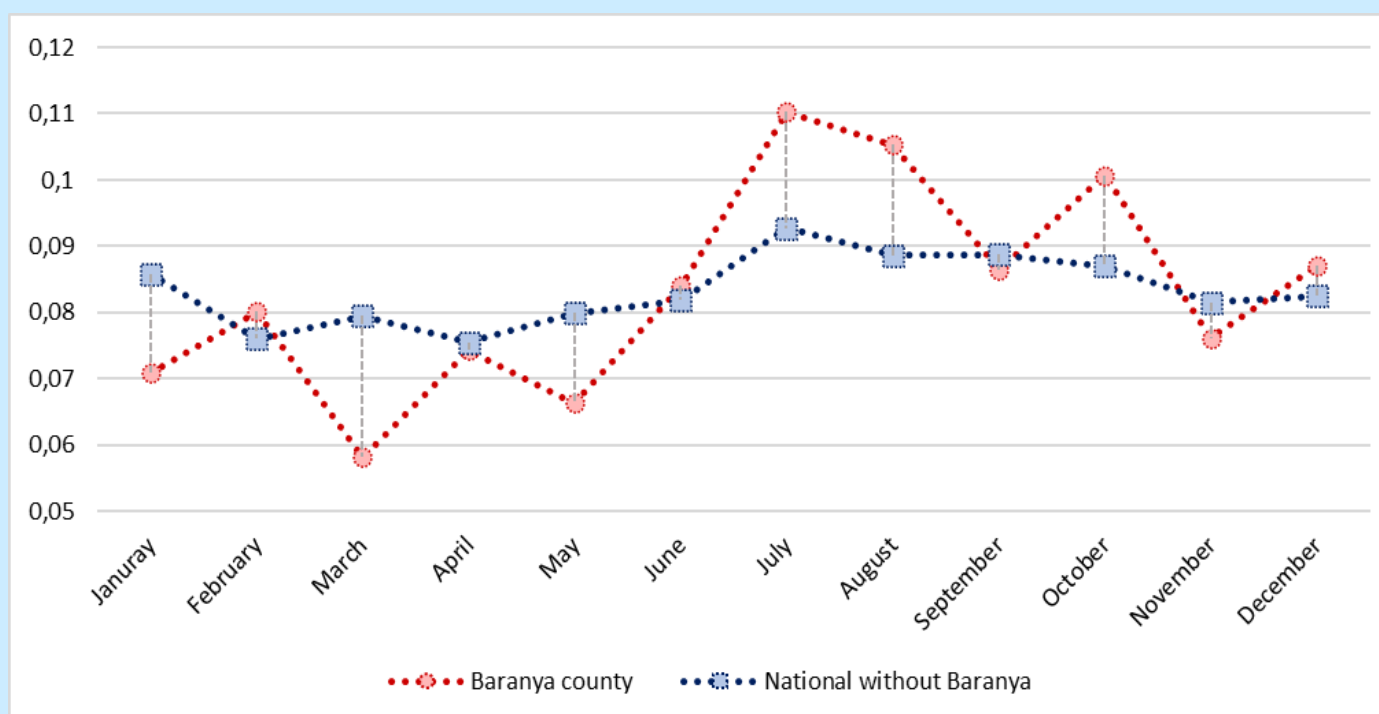


Figure 1.
Monthly distribution of total number of births

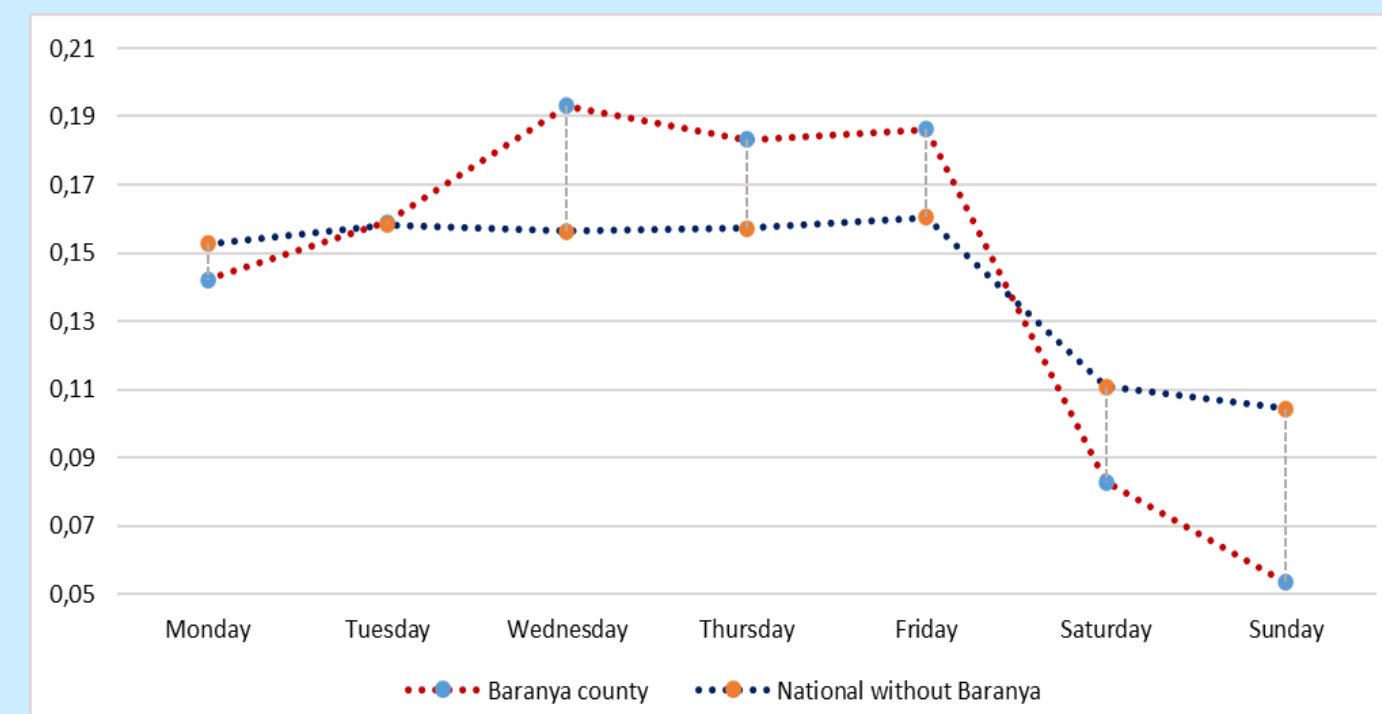


Figure 2.
Daily distribution of total number of births

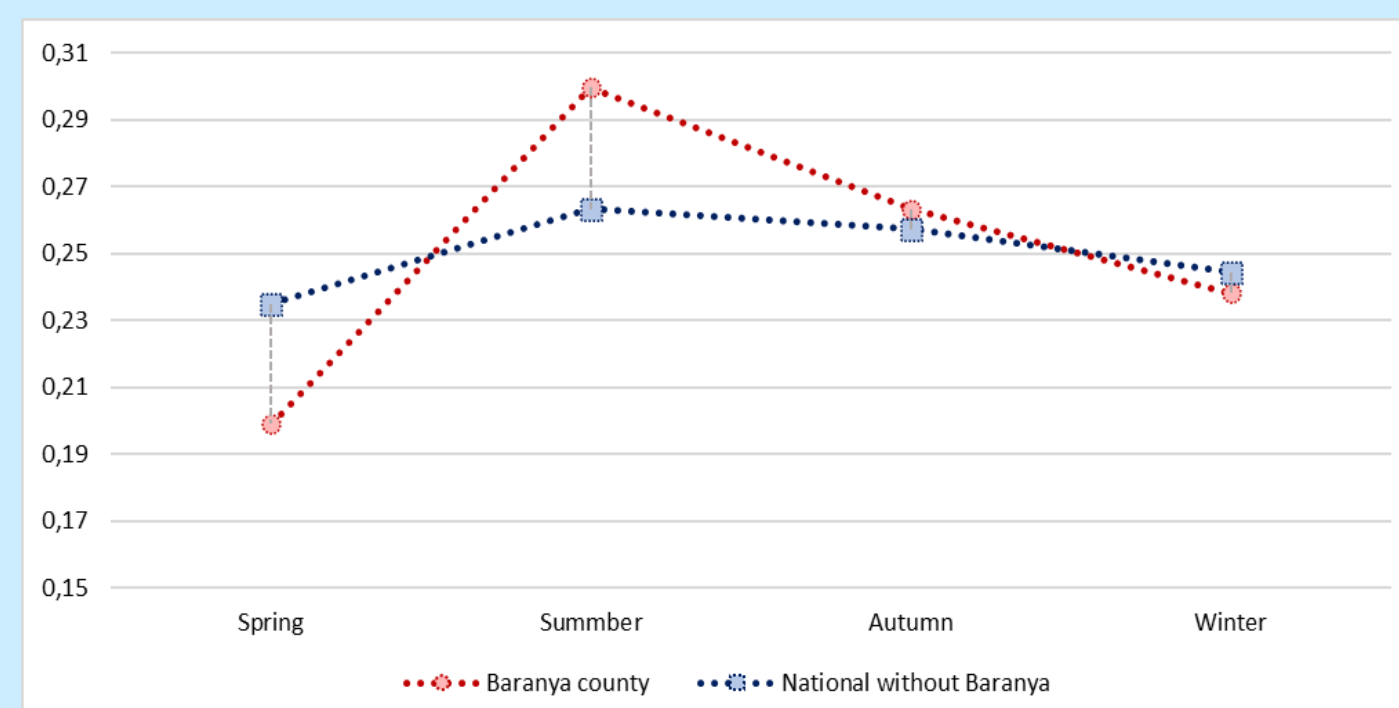


Figure 3.
Seasonal distribution of total number of births

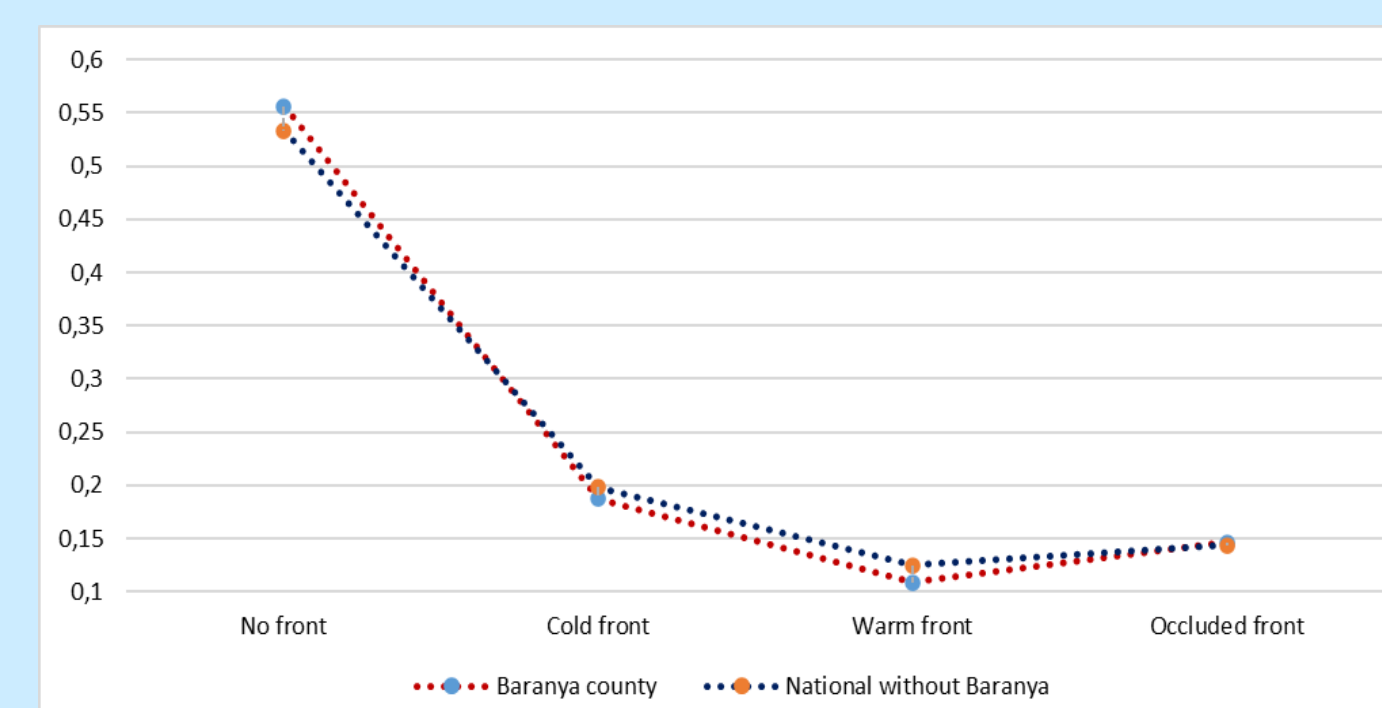


Figure 4.
Distribution of total number of births among weather fronts

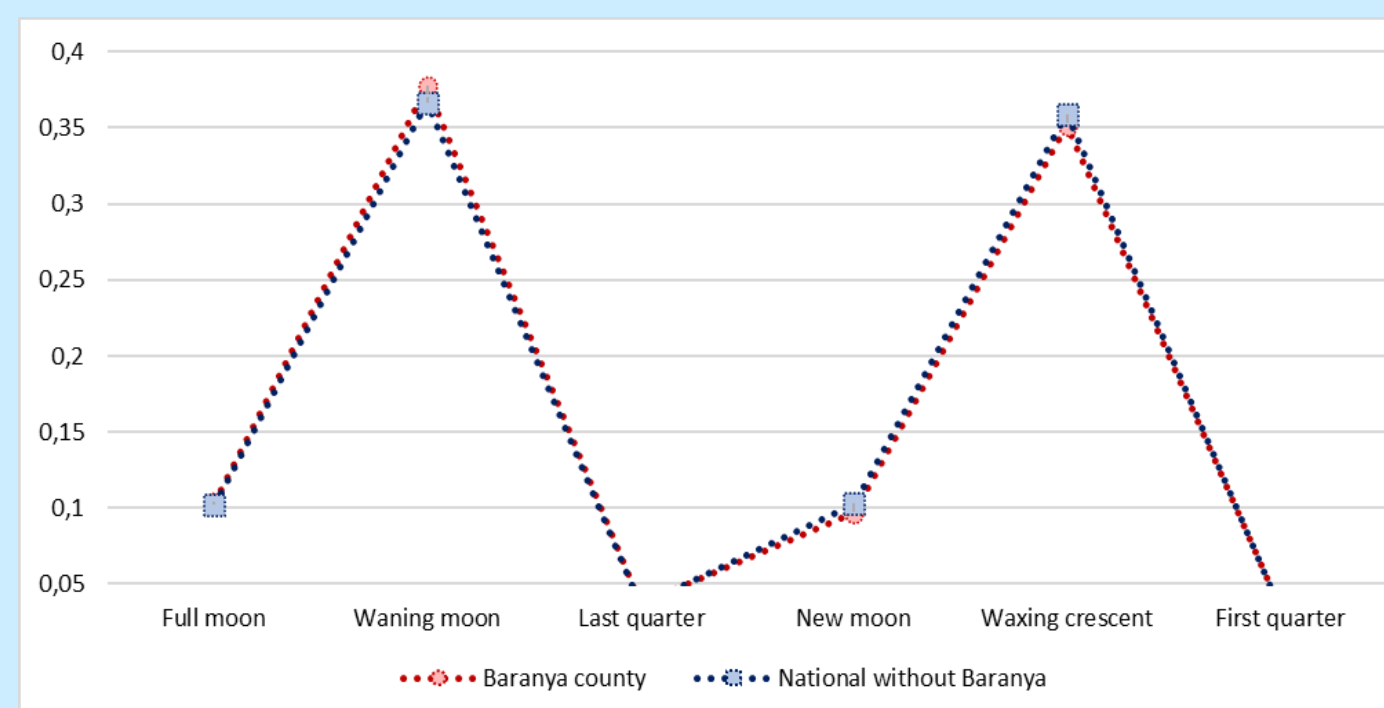


Figure 5.
Distribution of total number of births regarding the lunar calendar

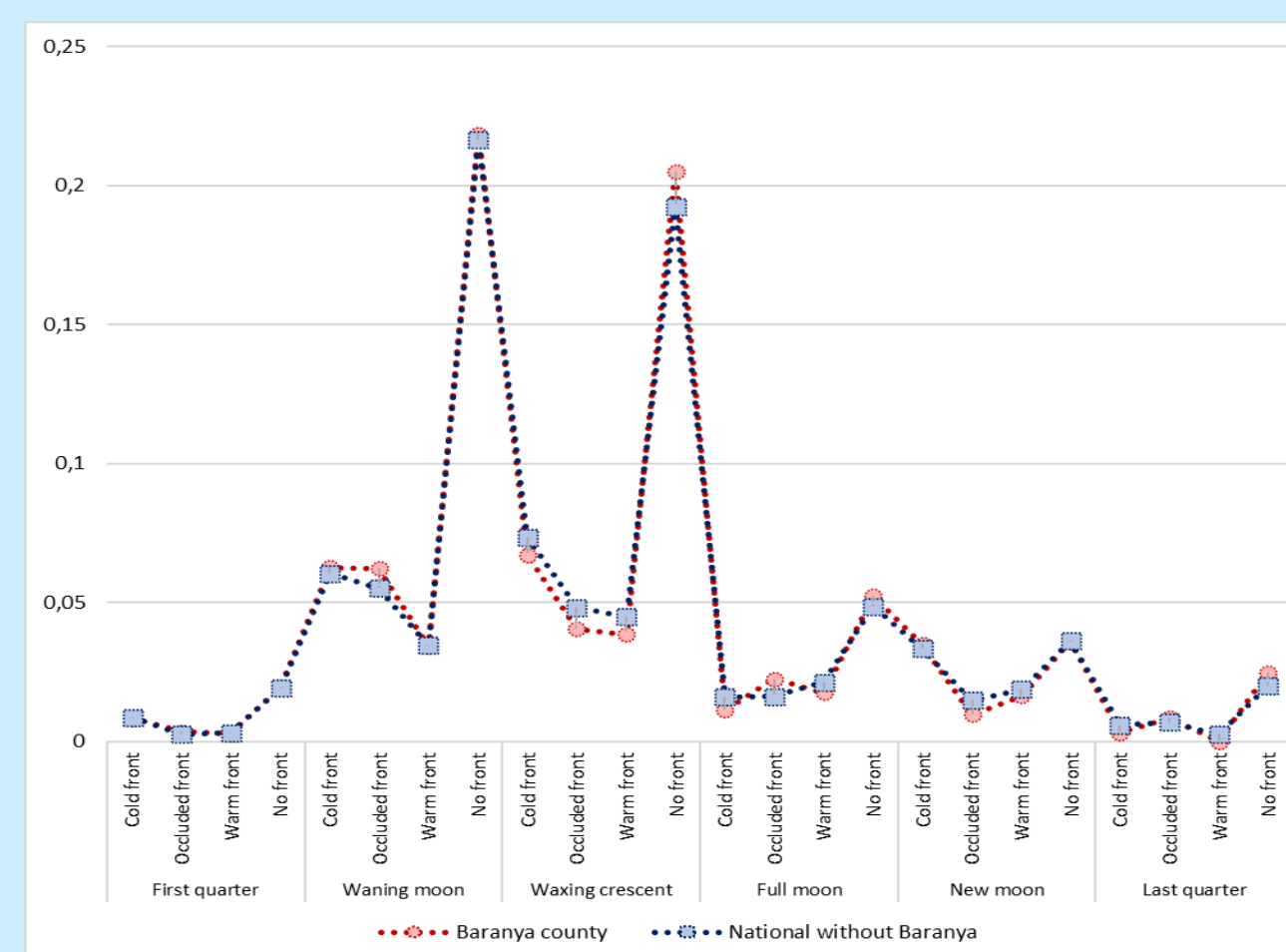


Figure 6.
Distribution of total number of births regarding the lunar calendar and weather fronts

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