Branching stochastic processes as models of Covid-19 epidemic development

Var185 - week 53

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Abstract

The results presented here are obtained using the methologi proposed in the paper https://arxiv.org/abs/2004.14838 for the country Var185. The data comes from European Centre for Disease Prevention and Control available at https://opendata.ecdc.europa.eu/covid19/casedistribution/csv.

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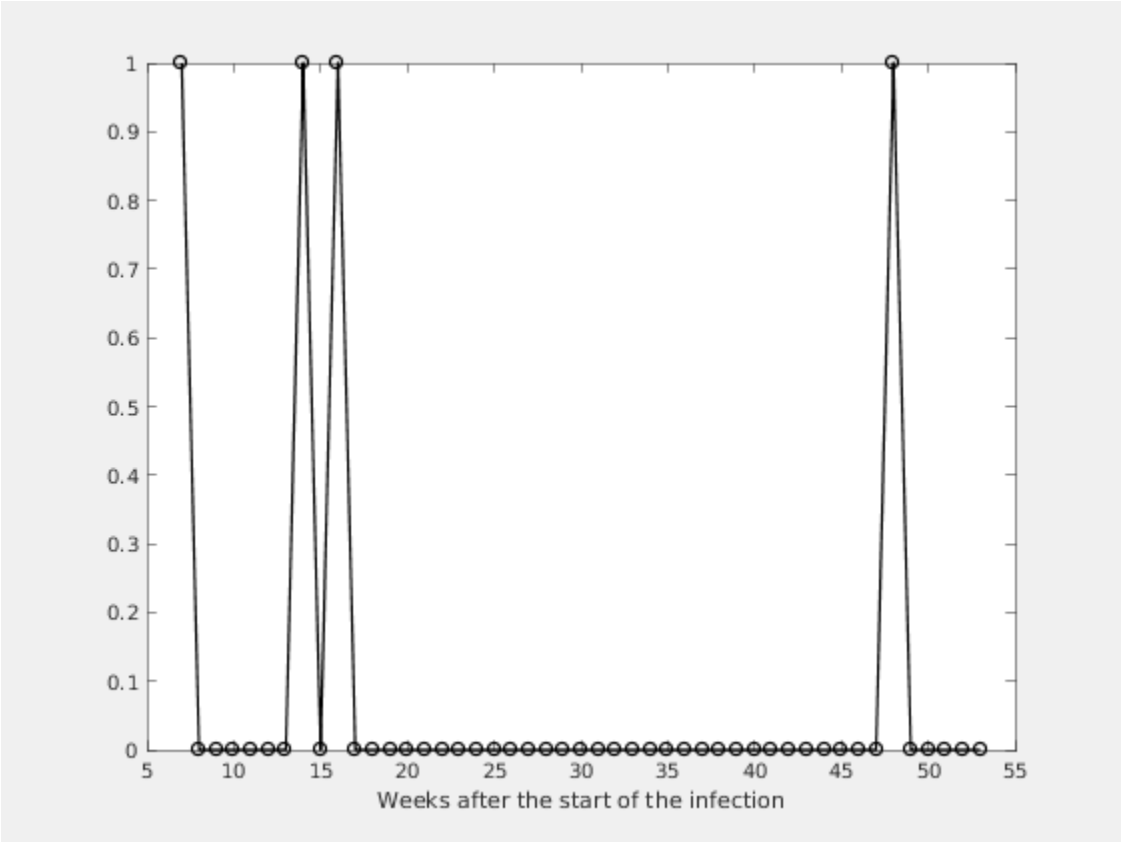
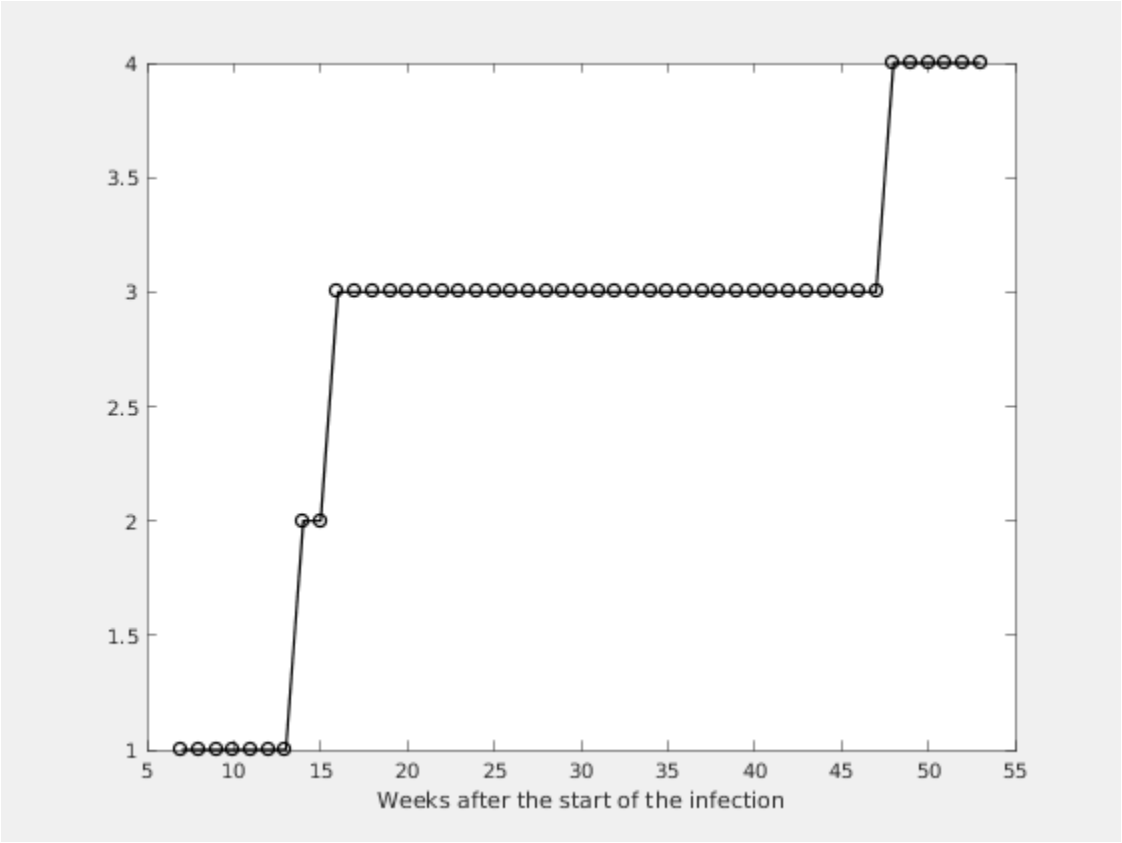


Figure 1.2. Number of the total registered cases



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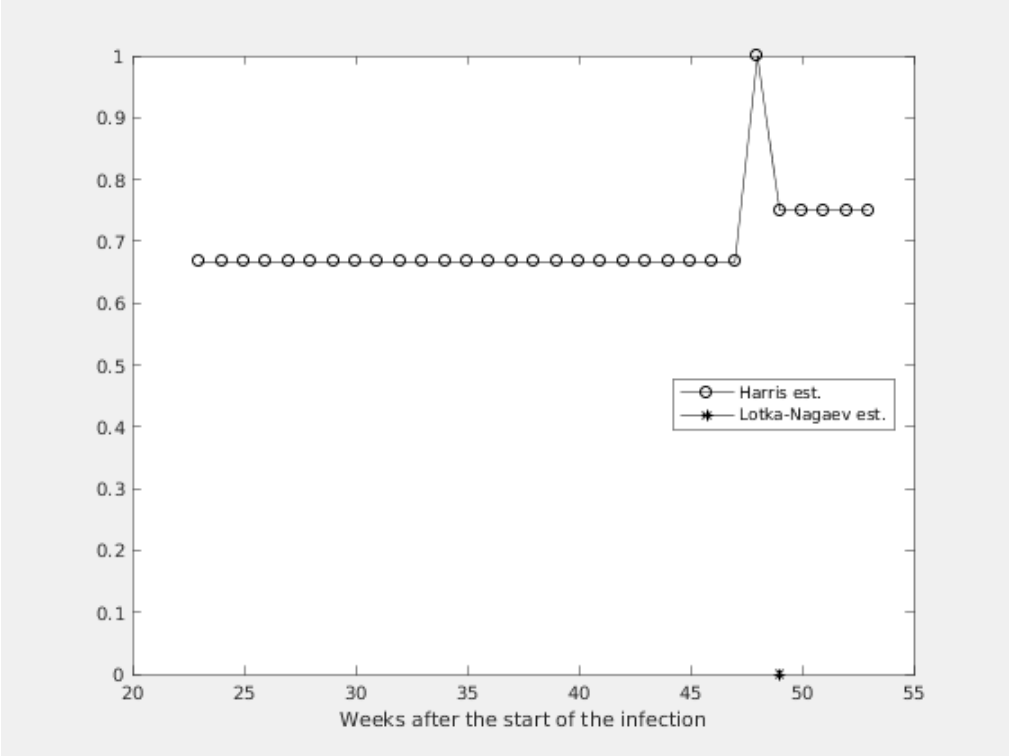


Figure 2.2. Figure

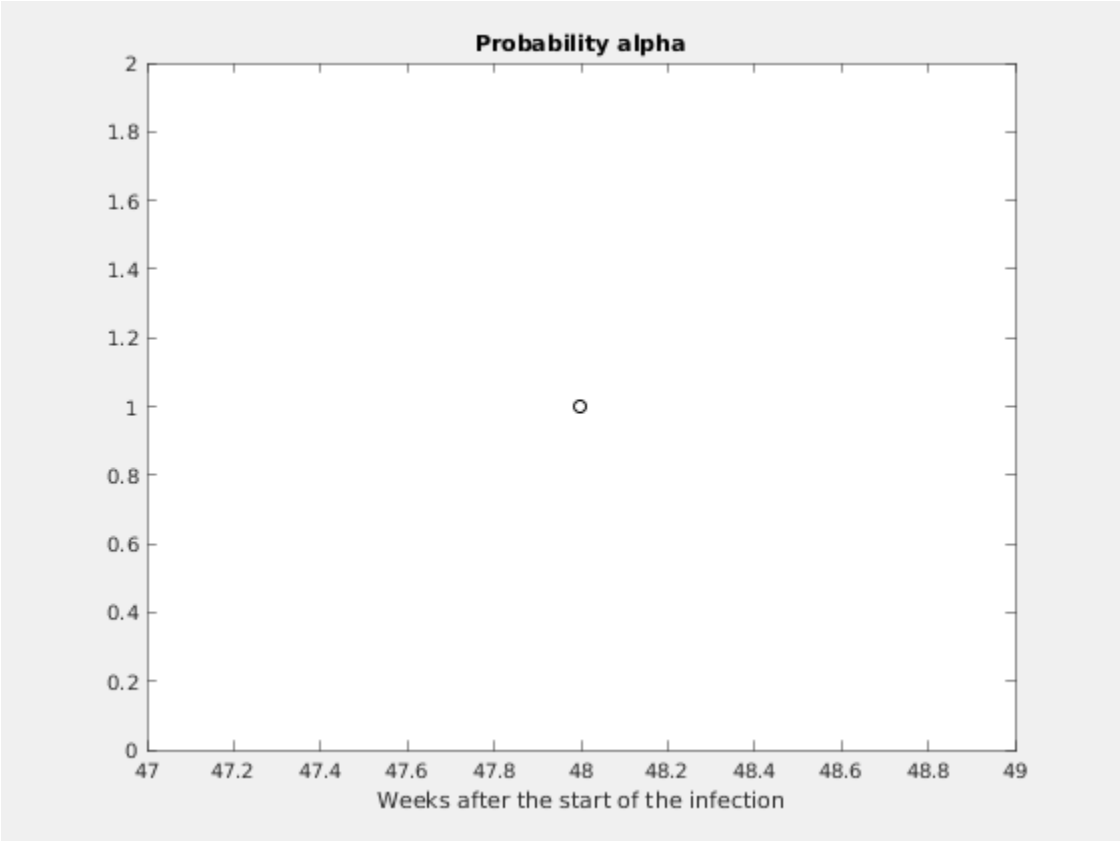


Figure 2.3. Expected number of the nonregistered infected individuals without immigration

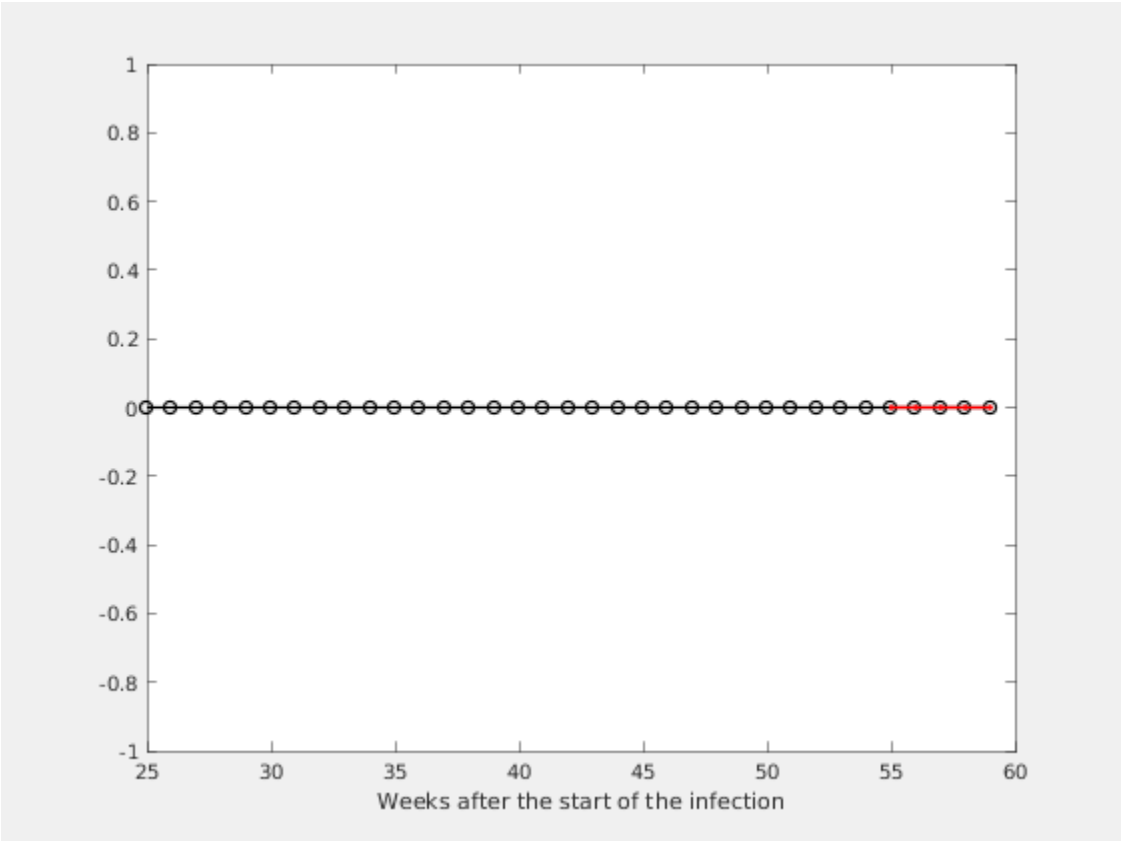
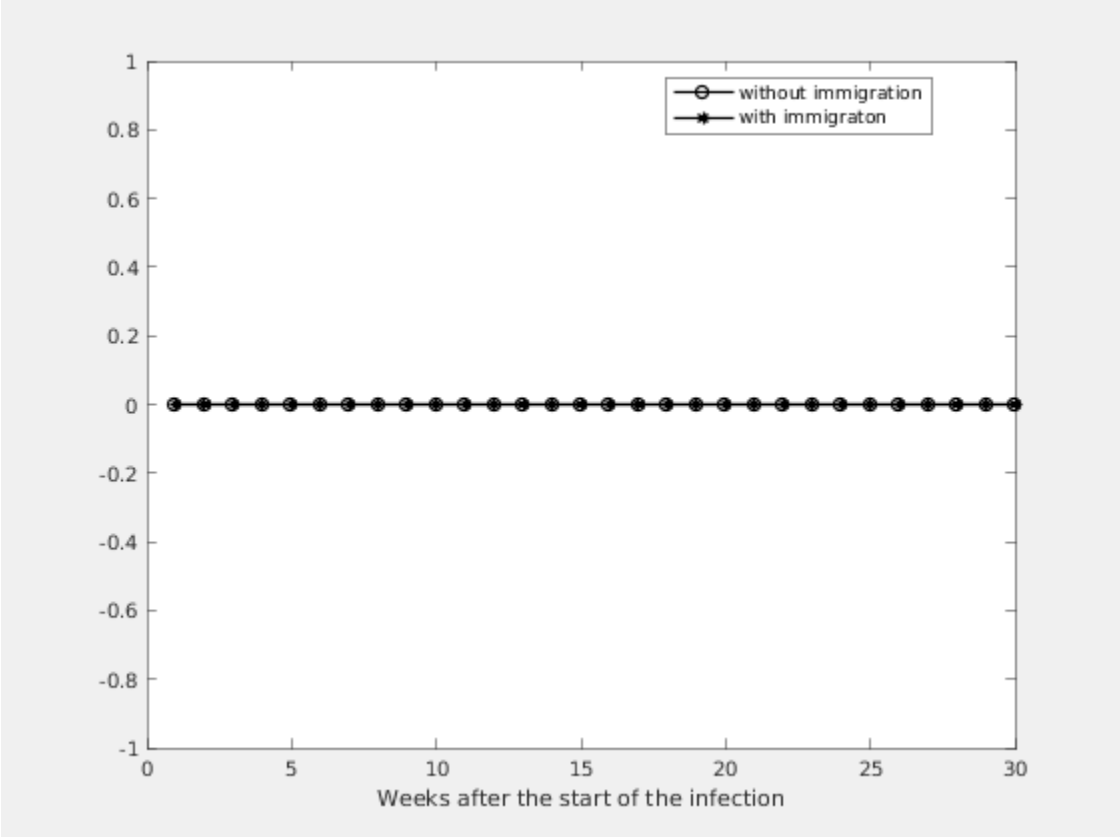


Figure 2.4. Expected number of the nonregistered infected individuals with immigration



Estimation of the model parameters.

k	m	ci	alpha	A1	M1
4	0.7500	0.4671 - 1.0329	NaN	0	0
3	0.7500	0.4671 - 1.0329	1.0000	0	0
2	0.7500	0.5050 - 0.9950	NaN	0	0
1	0.7500	0.5050 - 0.9950	NaN	0	0
0	0.7500	0.5050 - 0.9950	NaN	0	0