Branching stochastic processes as models of Covid-19 epidemic development

Var45 - week 53

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Publication date 21-Nov-2021 03:13:45

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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 Var45. 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 1.1. Number of the weekly reported laboratory-confirmed cases

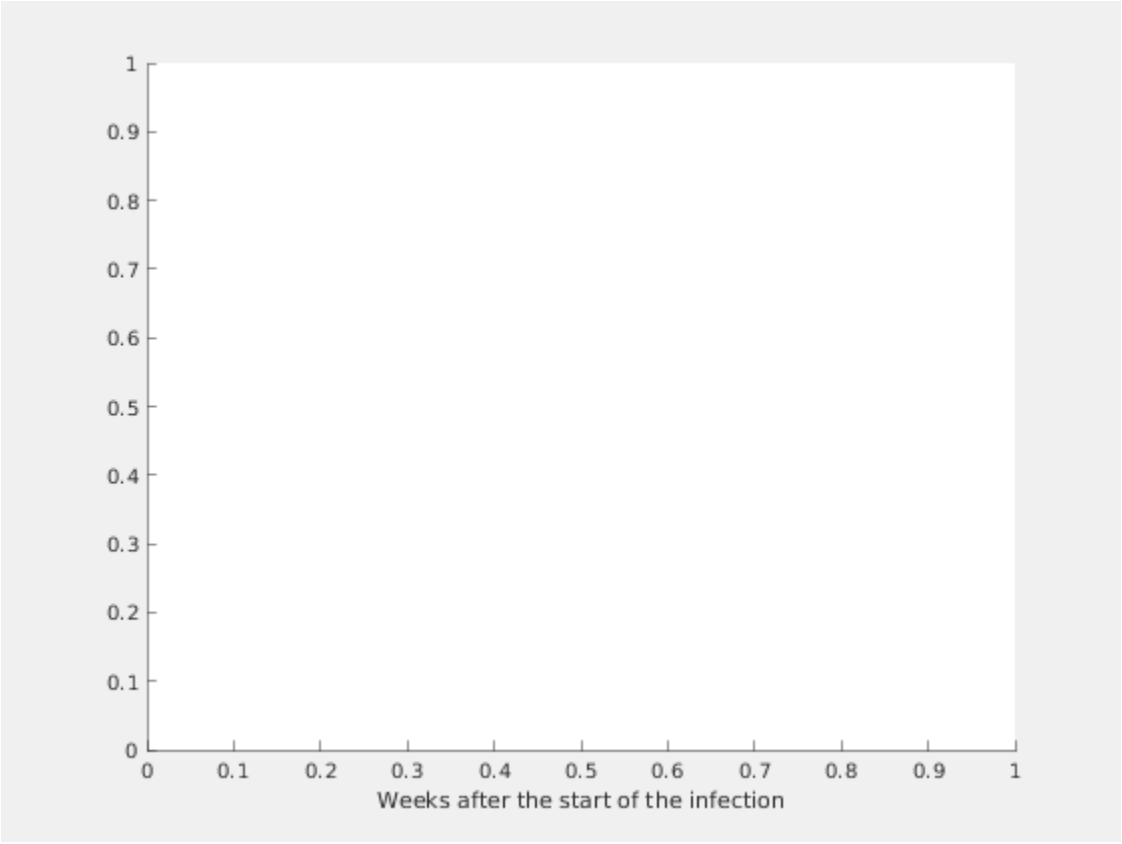
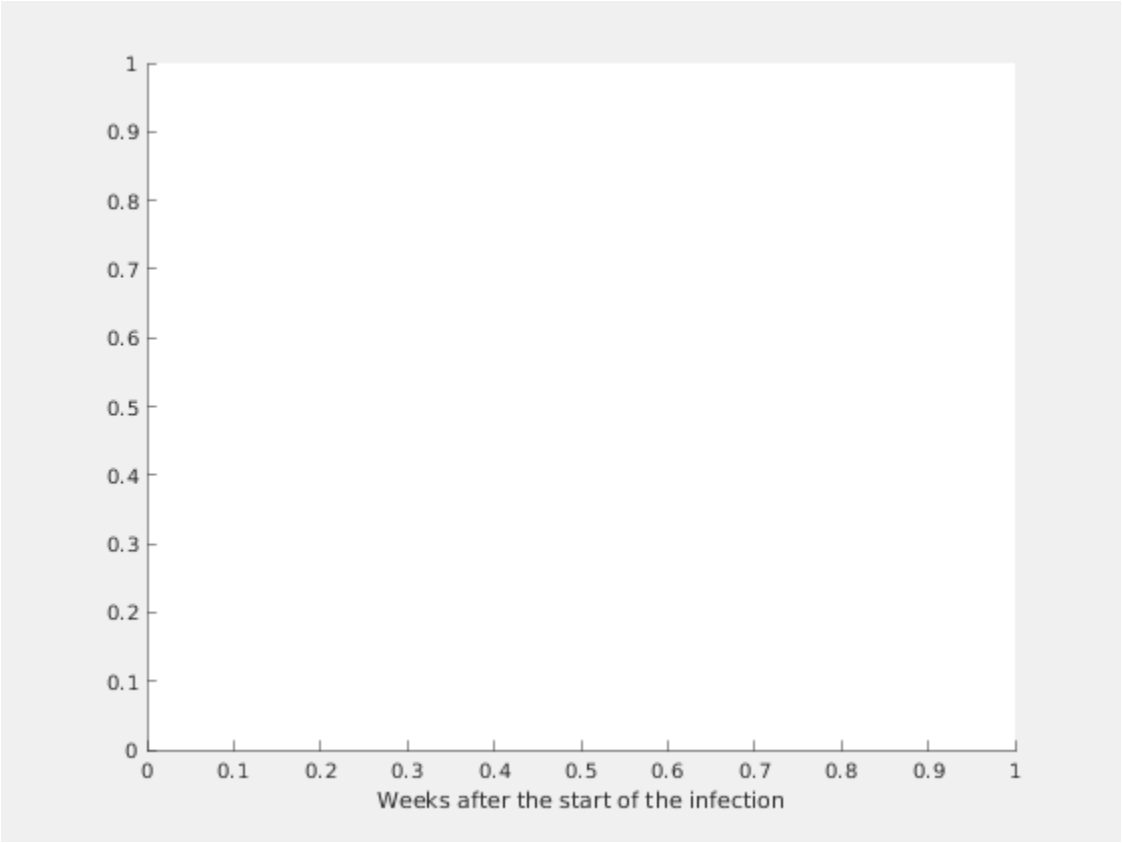
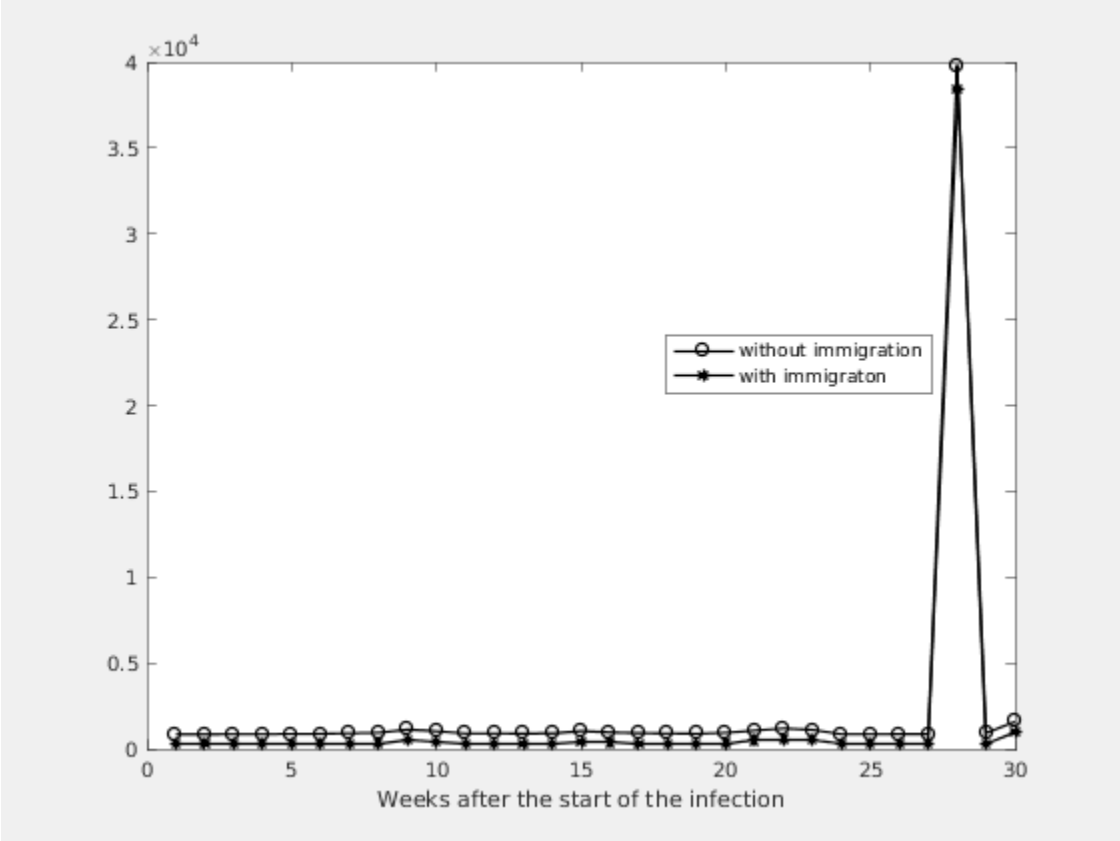


Figure 1.2. Number of the total registered cases



Chapter 2. Estimating of the main parameter and some predictions

Figure 2.1. Expected number of the nonregistered infected individuals with immigration



Estimation of the model parameters.

k	m	ci	alpha	A1	M1
4	0.0000	0.0000 - 0.0000	0.0000	0	0