Branching stochastic processes as models of Covid-19 epidemic development

Ghana - week 53

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Publication date 20-Mar-2022 03:12:06

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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 Ghana. 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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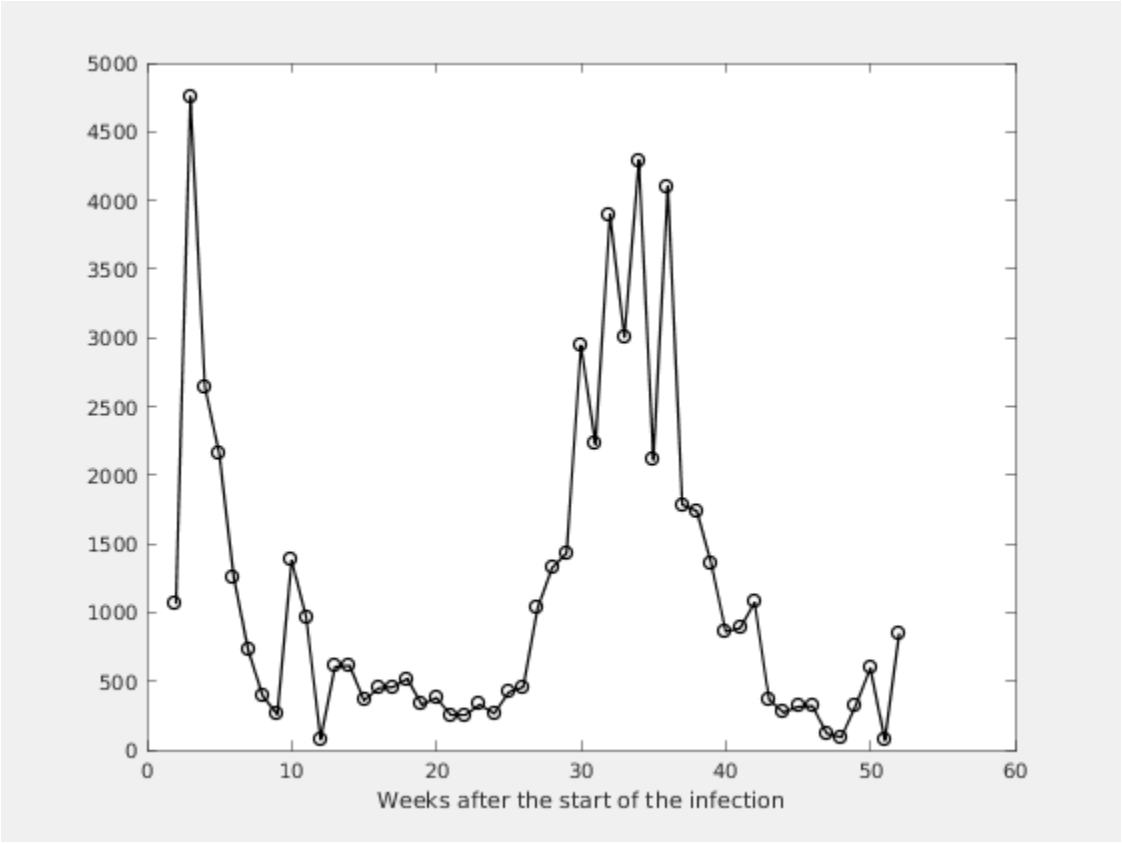
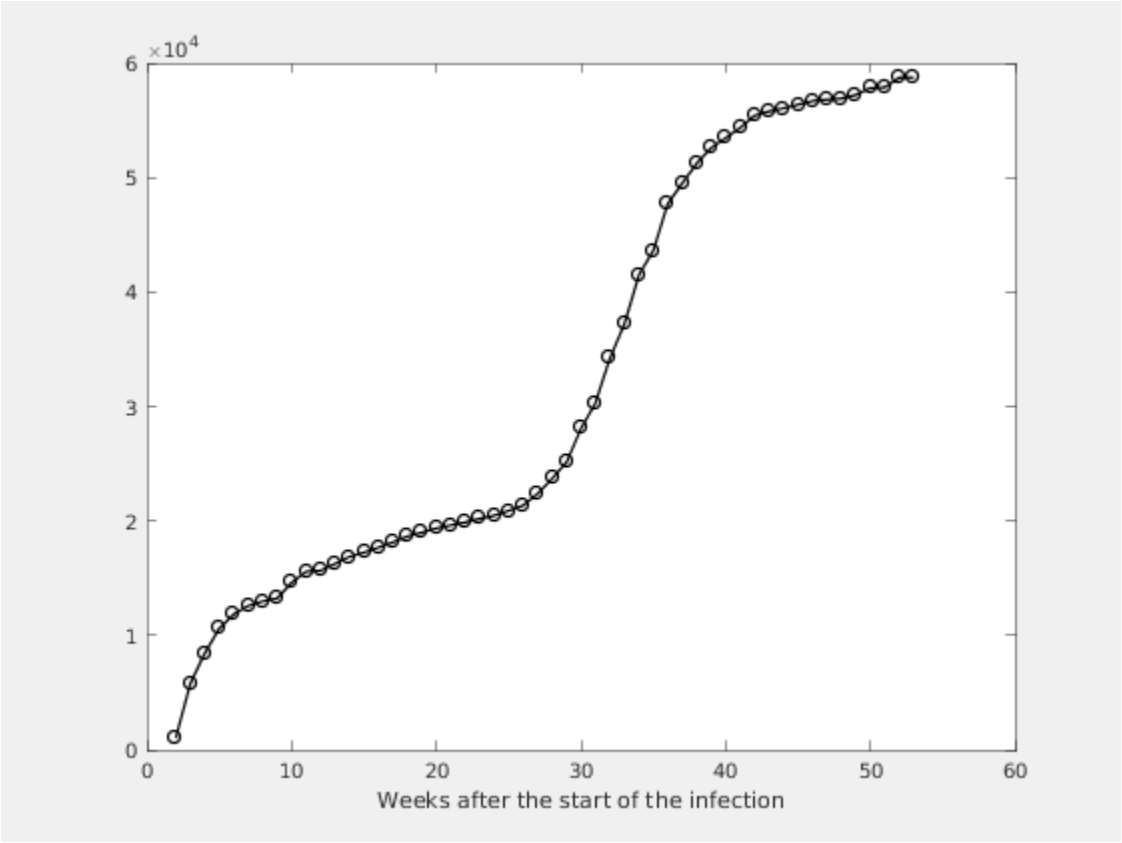


Figure 1.2. Number of the total registered cases



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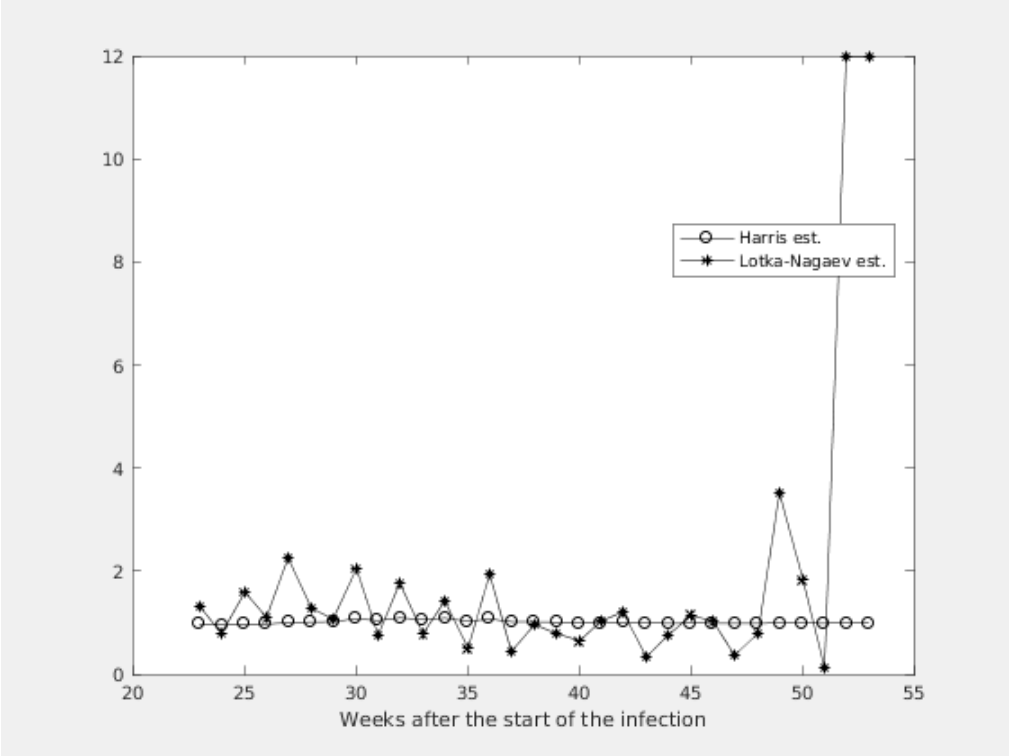


Figure 2.2. Figure

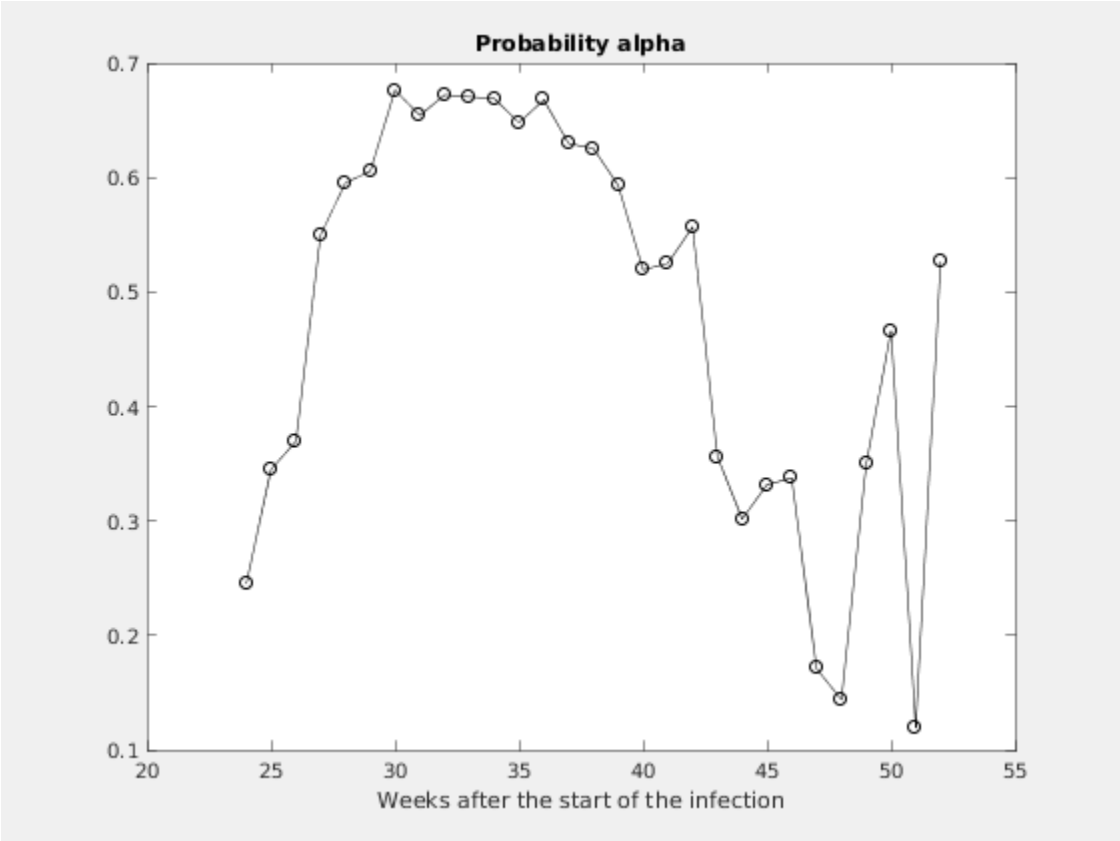


Figure 2.3. Expected number of the nonregistered infected individuals without immigration

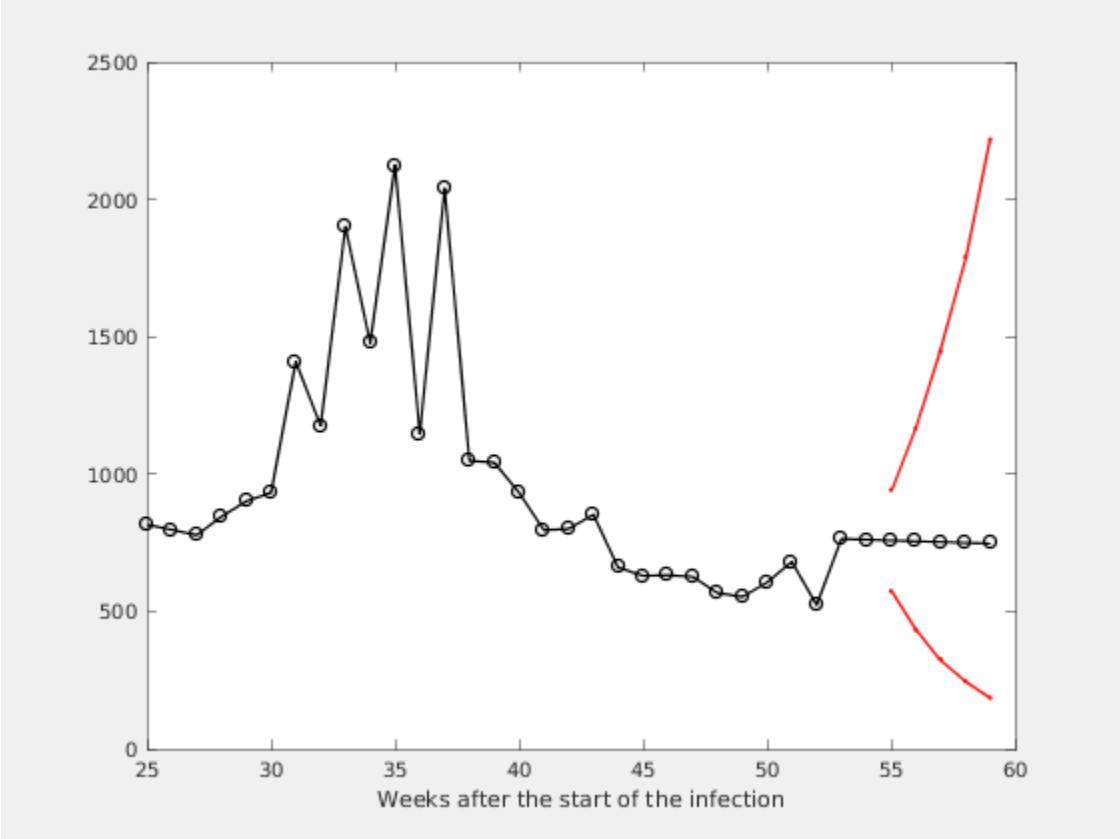
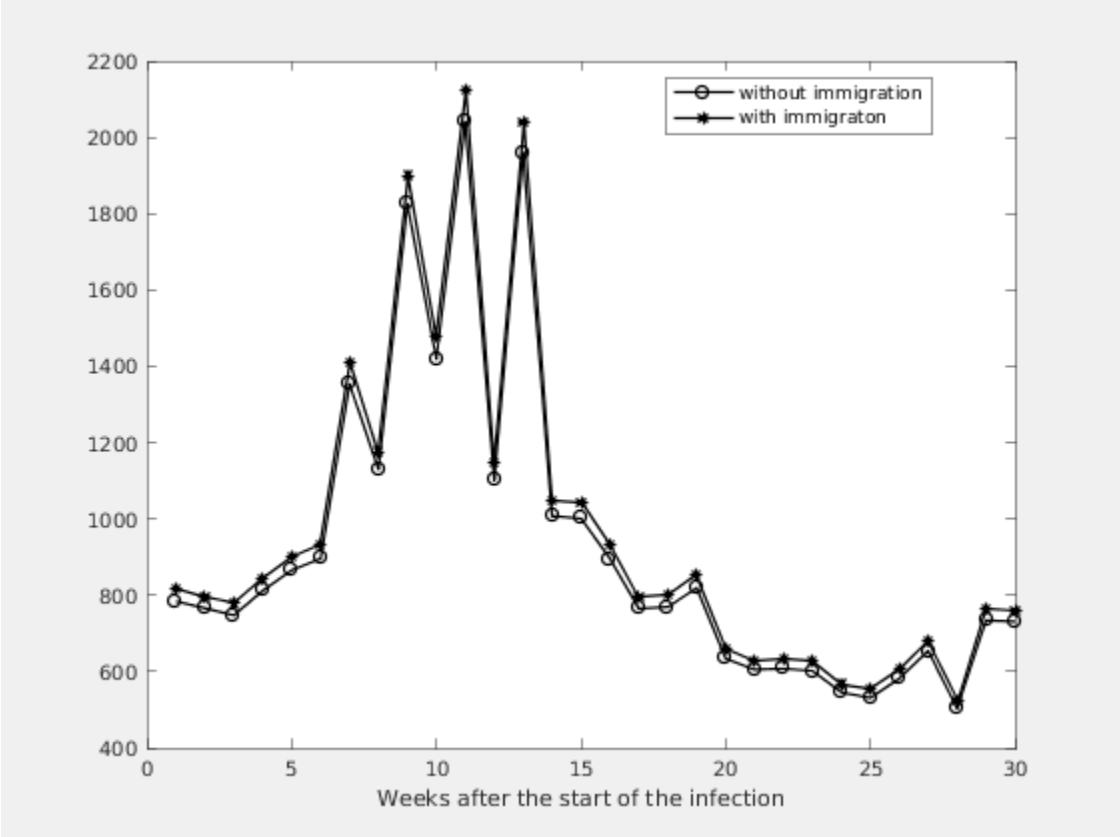


Figure 2.4. Expected number of the nonregistered infected individuals with immigration



Estimation of the model parameters.

k	m	ci	alpha	A1	M1
4	0.9871	0.7596 - 1.2145	0.1709	568	545
3	0.9918	0.7671 - 1.2165	0.1440	553	531
2	0.9829	0.7588 - 1.2069	0.3498	606	582
1	0.9963	0.7746 - 1.2181	0.4659	681	654
0	0.9963	0.7766 - 1.2161	0.1194	524	503