Simulation of Mass Vaccination Programs using GPenSIM in Matlab

A Practical and Experimental approach between centralized and mobile vaccination programs

Mohammed Z. Guniem   
*Department of Electrical Engineering and Computer Science*  
*University of Stavanger*Stavanger, Norway  
m.guniem@stud.uis.no

Abstract

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Keywords

Vaccination-Programs, Simulation, Petri-Nets, GPenSIM, Matlab.

Motivation

Vaccination has long been a powerful tool in providing immunity against infectious diseases, which have otherwise been far more deadly without the mass production and distribution of effective vaccines to provide immunity against such deadly diseases. This paper describes a practical project that aims to measure the effectiveness of a traditional centralized vaccination program in comparison with a more mobile vaccination program. The main goal of this project is to utilize the capabilities of the GPenSIM simulation package in MATLAB to establish a scientific proof of the strengths and weaknesses of the mentioned vaccination programs and their potentials in mass vaccination of the human population.

# **Introduction**

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# **Centralized vs. Mobile Vaccination Programs**

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# **Simulation Setup of A Centralized Vaccination Program**

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# **Experimental Simulation of a Centralized Vaccination Program using GPenSIM in Matlab**

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# **Simulation Setup of A Mobile Vaccination Program**

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# **Experimental Simulation of a Mobile Vaccination Program using GPenSIM in Matlab**

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# **A Performance Comparsion between the centralized and mobile vaccination programs.**

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*Conclusion*

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##### **Acknowledgment**

Remember to thank the teacher here.

##### **References**

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