Insalate di Matematica

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COVID-19 modeling and testing strategies at schools: behind the scenes

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Abstract

Different governments around the world proposed school closures as a first measure to stop viral spreading of SARS-COV-2 virus, especially during the first wave. However, prioritizing education recovery is crucial to avoid a generational crisis, as pointed out in the high-level ministerial meeting of the Global Covid-19 Education Coalition in March 2021. What kind of alternative measures to school closures can be implemented to avoid educational disruption and control the epidemic activity? In this talk, we will answer this question using an epidemic model designed to study transmission dynamics in school settings and evaluate a range of screening strategies with the aim of helping national educational systems in the management of COVID-19.

Keywords:

Temporal high-resolution data · Agent bases Model · Testing mitigation strategies · School setting

"Obvious" is the most dangerous word in mathematics. - Eric Temple Bell