

An Agent-Based and Microsimulated Model of the Epidemiology Impact of Closure of Schools During the COVID-19 Pandemia in the Region of Aysen in Chile

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This paper models the outbreaks of covid-19 in a region of Chile using a mix of agent-based modelling and microsimulation techniques to analyze the potential impact of making virtual the educational system during the pandemia. The behavior of 103.000 habitants of the region is modeled during each one of the seven days of the week, for 10 weeks. The contagious of the virus is modeled as consequence of the social interaction of each individual in five different environments: household, transport system, work, educational system and leisure time. The data is calibrated using census and administrative data of the whole population. The results show that the closure of the educational system is important to flatten the curve of contagious. In a world where people don't do social distancing, it could lower R0 by one unit

Palabras clave

Escuelas, COVID, Microsimulacion

Características de la colaboración

Este trabajo se generó a partir de autores y coautores que ya colaboraban antes de la pandemia

Interinstitucionalidad

Si

Interdisciplina

No

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