

Suisse - Global Warming Potential of different types of diagnostic tests at different phases of the COVID pandemic

Sarah Courdier, Maxime Karlen

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Identification

SURVEY ID NUMBER

10.16909-dataset-52

TITLE

Global Warming Potential of different types of diagnostic tests at different phases of the COVID pandemic

SUBTITLE

A life-cycle analysis assessment of COVID diagnostic tests

ABBREVIATION OR ACRONYM

LCA-COVID

COUNTRY

Name	Country code
Suisse	Suisse

ABSTRACT

These data are not the result of a survey and are therefore not structured as such. It includes details of the parameters and calculation results of the life-cycle analysis carried out on the COVID tests.

KIND OF DATA

Process-produced data [pro]

UNIT OF ANALYSIS

Two functional units are used in this study: (a) the performance of a test, and (b) the detection of a positive case

Version

VERSION DESCRIPTION

version 1.0 - raw simulation data for internal use

VERSION DATE

2024-08-26

Scope

NOTES

the scope of the study covers the entire life cycle of diagnostic tests used during COVID (manufacture, transport, use and disposal)

Coverage

GEOGRAPHIC COVERAGE

no geographic coverage (simulation data only)

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
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Sarah Courdier	Center for Primary Care and Public Health (Unisanté), University of Lausanne, Switzerland
Maxime Karlen	Center for Primary Care and Public Health (Unisanté), University of Lausanne, Switzerland

PRODUCERS

Name	Abbreviation	Affiliation	Role
David Vernez	DVE	Center for Primary Care and Public Health (Unisanté), University of Lausanne, Switzerland	Supervisor
Valérie d'Acremont	VDA	Center for Primary Care and Public Health (Unisanté), University of Lausanne, Switzerland	Supervisor
Julien Boucher	JB	Environmental-Action	co-investigator
Alexandre Bouchet	AB	Environmental-Action	co-investigator

Sampling

SAMPLING PROCEDURE

no sampling, simulation data only

Data collection

DATES OF DATA COLLECTION

Start	End
2022/02/01	2022/10/01

DATA COLLECTION MODE

Other [oth]

SUPERVISION

Supervisors :

David Vernez

Valérie d'Acremont

DATA COLLECTORS

Name	Abbreviation	Affiliation
Sarah Courdier	SC	Center for Primary Care and Public Health (Unisanté), University of Lausanne, Switzerland
Maxime Karlen	MK	Center for Primary Care and Public Health (Unisanté), University of Lausanne, Switzerland

Questionnaires

QUESTIONNAIRES

no questionnaires were used

Data Processing

DATA EDITING

A proprietary Excel tool developed by the authors was used to perform the LCA analysis. The tool's calculation flows were based on the ISO 14040 standard, and the emission factors were taken from the Excel version of the Ecoinvent database :

<https://ecoinvent.org/database/>

Access policy

CONTACTS

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CONFIDENTIALITY

There is no confidential data in this dataset. The calculation formulas used for the ACL are not accessible, as they are used in a proprietary tool.

ACCESS CONDITIONS

Dataset shared under the license CC-BY.

The calculation formulas used for the ACL are not accessible, as they are used in a proprietary tool. Therefore, the file is protected with a password.

CITATION REQUIREMENTS

Courdier, S., Bouchet, A., Karlen, M., Boucher, J., D'Acremont, V., Vernez, V. A life-cycle analysis assessment of COVID diagnostic tests. Center for Primary Care and Public Health (Unisanté), University of Lausanne, Switzerland. Version 1.0 of the dataset (09/2024), provided by the Unisanté Research Data Repository. DOI:<https://doi.org/10.16909/DATASET/52>

ACCESS AUTHORITY

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Metadata production

DDI DOCUMENT ID

10.16909-dataset-52

PRODUCERS

Name	Abbreviation
Center for Primary Care and Public Health (Unisanté), University of Lausanne, Switzerland	Unisanté

Data Dictionary

Data file	Cases	Variables
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