

The table below shows the structure of the simulation output data. The data is stored in individual CSV files in the form of time series, each row representing a day. Most outcome dimensions are recorded for separate socio-demographic compartments. Counting data (duration, indicator value) is stored in the form of histograms. For each simulation scenario the result data of 6 Monte Carlo runs is available.

|  | Field   | Symbol        | Description  |
|--|---|---------------|--|
| file path                                    | scenario ID   |               | string   |
| file path                                    | simulation run index number                                   | r             | integer  |
| row  | date  | s             | date   |
| socio-demographic compartments               | age   | c             | 0 (-5)<br>6 (-13) underage school children<br>14 (-17) school children<br>18 (-64)<br>65 (+)   |
|  | gender  | c             | F<br>M   |
|  | federal state   | c             | AT-1, ..., AT-9 iso codes  |
|  | (sub-) population   |               | Population ... total population<br>Pupil ... school children<br>Parent ... parents of school children  |
| socio-demographic and socio-economic figures | compartment size  | $n_{r,s,c}$   | <i>Number of persons.</i>  |
|  | cumulative duration of quarantine for school children         | $n_{r,s,c,d}$ | <i>Histogram counting the number of students who spent a certain total amount of days (d) in quarantine.</i><br><br><i>iso:006 ... number of students with a duration in the interval (5, 6]</i> |
|  | contiguous duration of quarantine for school children         |               | <i>Histogram counting the number of students who spent a certain number of consecutive days in quarantine.</i><br><br><i>isoSeq:*</i>  |
|  | maximum contiguous duration of quarantine for school children |               | <i>Histogram counting the number of students who spent a certain maximum consecutive duration (days) in quarantine.</i><br><br><i>isoSeqMax:*</i>  |

|                          |   |               |  |
|--------------------------|---|---------------|--|
|                          | supervision of underaged children by parents          |               | <i>careTaking ... number of parents in work-leave due to child-care obligations</i>  |
|                          | type of “quarantine” or lock-down for school children |               | <i>atSchool ... no quarantine<br/>atHome ... quarantine<br/><br/>planned ... due to general lock-down<br/>unplanned quarantined ... due to contact tracing<br/>unplanned schoolClosed ... due to reactive closing</i>  |
| epidemiological figures  | new confirmed cases                                   |               | <i>new_confirmed (confirmed is a subset of infected)</i>   |
|                          | number of new infections                              |               | <i>new_infected<br/><br/>ALPHA, BETA, ... simulated SARS-Cov2 variant</i>  |
|                          | immunized   |               | <i>number of immunized in total population<br/><br/>ALPHA, BETA, ... SARS-Cov2 variant against immunized</i>   |
| psychological indicators | quality of life (KIDSCREEN-10)                        | $n_{r,s,c,v}$ | <i>Histogram data reflecting the distribution of the indicator value (v) obtained by individual-based simulation.<br/><br/>KS:* ... see description below.</i>   |
|                          | depressive symptoms (CES-DC)                          | $n_{r,s,c,v}$ | <i>Histogram data reflecting the distribution of the indicator value (v) in the population of school children obtained by individual-based simulation.<br/><br/>DC:-003.5 is the size of the compartment with CES-DC indicator in the interval (-4, -3.5].<br/>DC:mean and DC:std are the mean and standard deviation of the histogram data.</i> |

For further details see

- [https://github.com/dwhGmbH/condgan-for-abm/blob/main/Covid19\\_Model-20230322.pdf](https://github.com/dwhGmbH/condgan-for-abm/blob/main/Covid19_Model-20230322.pdf)
- [https://github.com/dwhGmbH/condgan-for-abm/blob/main/Calibration\\_Feb2023.pdf](https://github.com/dwhGmbH/condgan-for-abm/blob/main/Calibration_Feb2023.pdf)