



Das Projekt "COVID und KI" wurde durch das Ministerium für Wissenschaft und Gesundheit in Rheinland-Pfalz finanziert





COVID-19 in Higher Education

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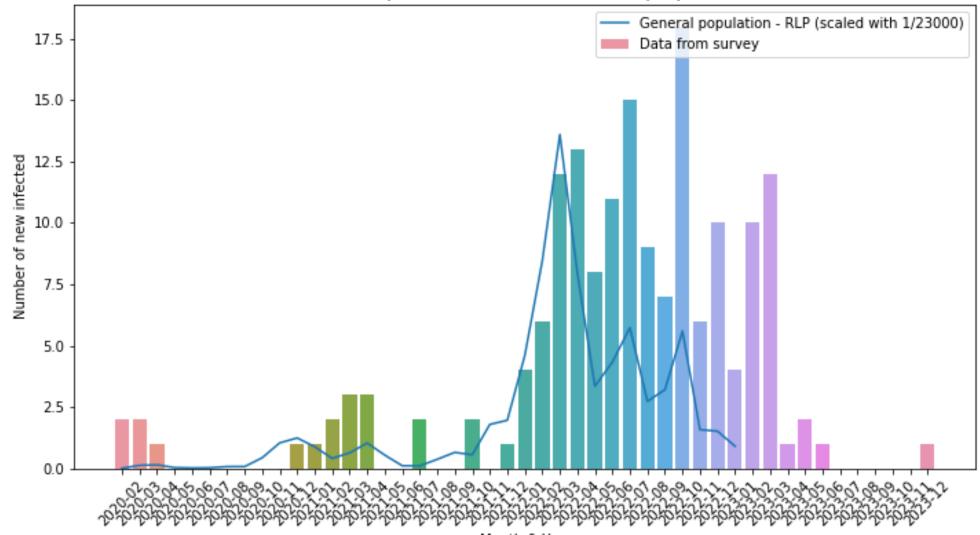




https://covid-ai.uni-koblenz.de/

History of Infections

Comparison for number of infected people









Household Size and Infections

		How many people live in your household (including you)?					
		1	2	3	4	5 or more	
0	Count	7	21	9	4	0	
	% within How many people live in your household (including you)?	28.0%	32.3%	20.9%	10.3%	0.0%	
	Count	25	65	43	39	12	
	% within How many people live in your household (including you)?	100.0%	100.0%	100.0%	100.0%	100.0%	







Smoking and Infections

		0	Total
No	Count	35	170
	% within Do you smoke?	20.6%	100.0%
Yes	Count	5	14
	% within Do you smoke?	35.7%	100.0%

odds ratio for infection (smokers v. non-smokers) 0.81







Smoking and Infections

Results

Among the 1688 crewmembers (87% men; median age = 28 [interquartile range 23–35]) included, 1279 (76%) developed Covid-19 (1038 [62%] reverse-transcriptase- polymerase chain reaction testing–positive and 241 [14%] with only clinical signs). One hundred and seven patients were hospitalized. The univariable analysis odds ratio (OR) for Covid-19 infection was 0.59 (95% confidence interval [CI], 0.45–0.78; p < .001) for current smokers versus former and nonsmokers; sex, body mass index or blood group had no significant impact. Crewmembers >50 years old had an increased risk of contracting Covid-19 (OR, 2.84 [95% CI, 1.30–7.5]; p = .01). Multivariable analysis retained the lower risk of current smokers becoming infected (OR, 0.64 [0.49–0.84]; p < .001) and age >50 years was significatively associated with Covid-19 (OR, 2.6 [1.17–6.9]; p = .03).

Paleiron et al. 2021







Vaccinations and Infections

		How many times have you received a COVID-19 vaccine?					
		0	1	2	3	4	5
0	Count	2	0	5	21	12	1
	% within How many times have you received a COVID-19 vaccine?	25.0%	0.0%	16.1%	18.8%	41.4%	20.0%
	Count	8	1	31	112	29	5
	% within How many times have you received a COVID-19 vaccine?	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



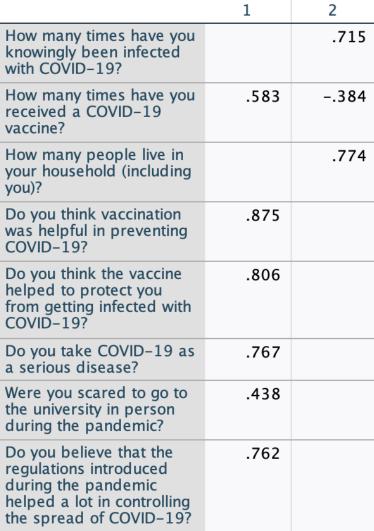
Beliefs and

Behaviour



Rotated Component Matrix^a

Component



Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization. a



a. Rotation converged in 3 iterations.

14. März 2024







Statistical Analyses

- Initial statistical analyses have been performed to explore the data set
 - Finding correlations between variables with cross tabulation based statistics
 - Finding hidden structures using factor analysis
 - Estimating the statistical significance of the sample using inferential statistics
 - Experiences so far: For some analyses, results are statistically significant, for others the sample size is too small to draw inferences about the University "population"
- Plans for further analyses with data from the survey
 - Exploring effects of travel behaviour and means of transport
 - Looking deeper into the effects of vaccinations, even with differentiating various vaccines







Thank you for your attention!

Questions ...