The Dutch Lifelines COVID-19 Cohort

A study into risk factors and health- and societal impact

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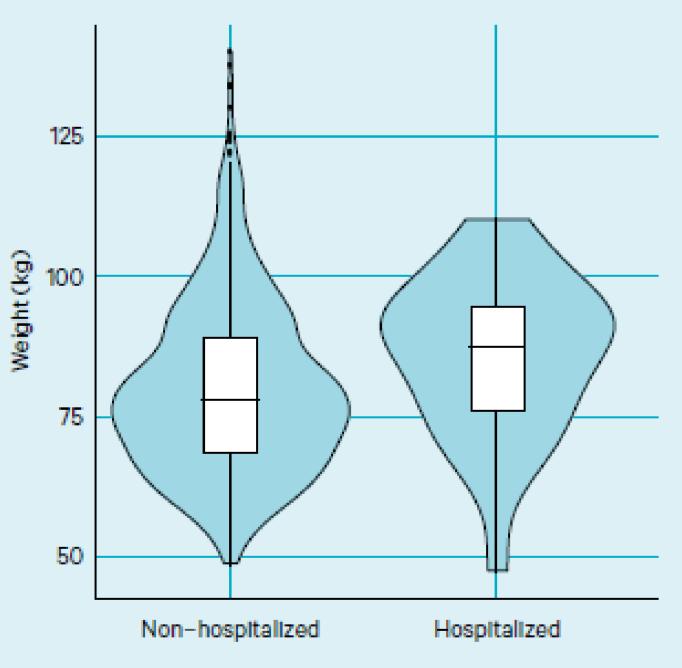
At the very beginning of the COVID-19 pandemic in the Netherlands, a largescale study into the risk factors of the novel coronavirus started in the Northern Netherlands. Since then, 135,000 Lifelines participants receive (bi-) weekly, extensive questionnaires about their health, wellbeing and lifestyle (as of the 8th follow up questionnaire 110,000 participants). The collected COVID-19 questionnaire data is linked to the previously collected longitudinal data from the Lifelines biobank. Lifelines encourages researchers worldwide to use these data to gain insight into the risk factors, spreading and (long term) consequences of the coronavirus. Click here for the COVID-19 cohort paper¹

COVID-19 questionnaire content

Risk factors

- General health
- Chronic disease status
- Medication use
- Medical history
- Lifestyle

Weight of participants with postive test or diagosed by physician



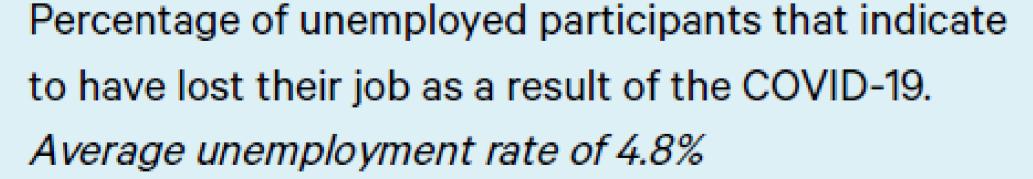
Job loss

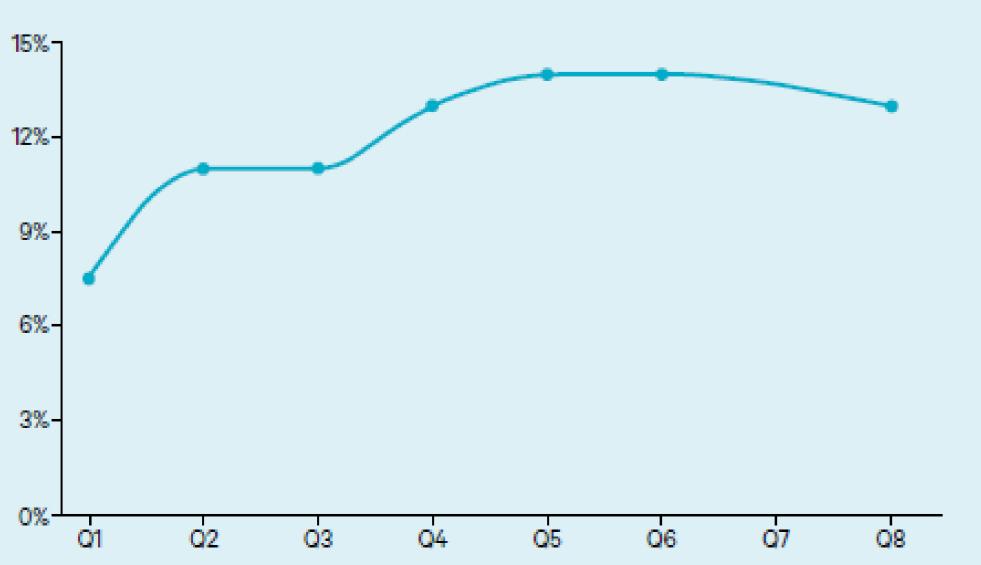
Social demographics

- Mental health and well-being
- Quality of life
- Employment situation
- Income

Impact

Results are based on data from the first 9 questionnaires





135,000 participants

14 questionnaires between March and October 2020

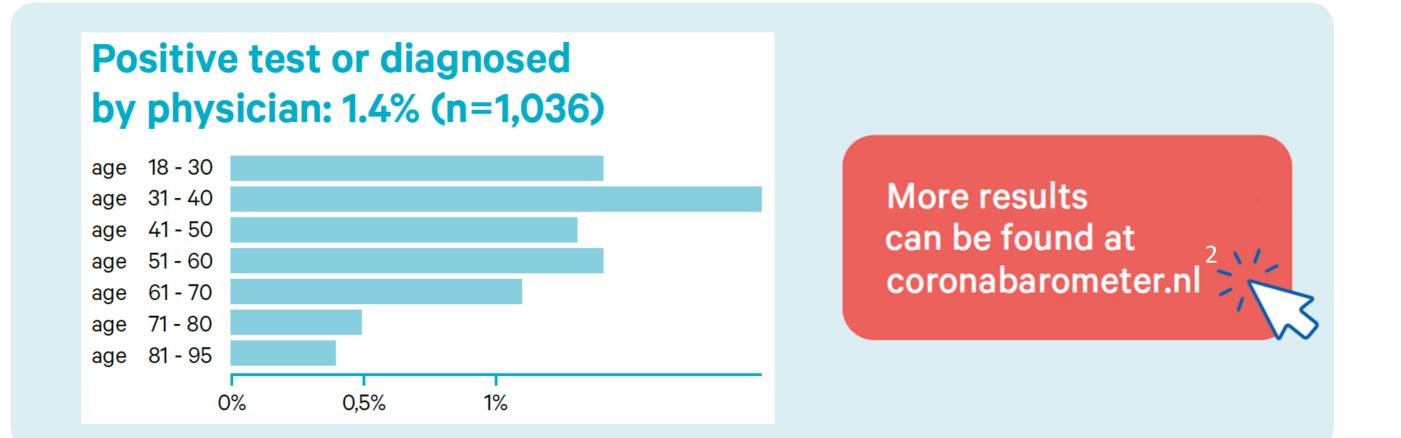
34% average response rate Over 38,500 completed 8 or more questionnaires

Over 13,000 completed all 14 questionnaires

COVID-19 cohort continuous...

More follow up questionnaires.

Blood collection of participants positive tested for COVID-19. To measure COVID-19 specific antibodies, crossreactivity of coronavirus specific antibodies in retrospective samples and T- and B-cells. The first results of this study, about the interrelationship between an individuals' immune response, genetics and environmental exposures and the severity of Covid-19, will be expected in December.



Lifelines

Lifelines is a large population-based cohort and biobank which started in 2006 with 167,000 inhabitants of the northern part of the Netherlands. Our aim is to enable research to better prevent, predict, diagnose and treat diseases. For this purpose participants are being followed for 30 years and surveyed every 5 years. We collect data through questionnaires and measurements on a wide range of topics such as lifestyle, environment, multiomics, and medical history.

Our data and samples are available for researchers worldwide.

> Check out our Wiki for detailed information -

Contact us www.lifelines.nl/research +(0)50 - 361 58 03 research@lifelines.nl









This study is a joint initiative



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