

lifelines

asthma and COPD

‘Lifelines contributes to “Lungs Lasting a Lifetime” for everyone.’

prof. dr. Dirkje S. Postma

number of Lifelines participants with:

measured

COPD 11,400

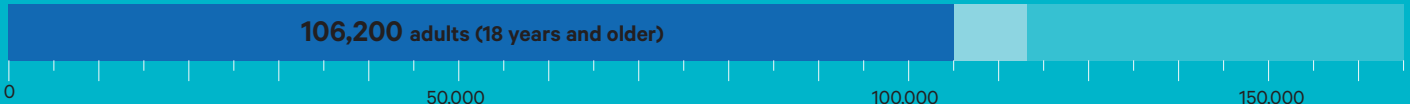


self-reported

1,600 newly reported cases asthma

asthma 12,400

lung function test (spirometry)



106,200 adults (18 years and older)

7,600 children (8 - 17 years)

which Lifelines data can contribute to scientific research on asthma and COPD?

risk factors

A diverse set of data is available regarding the risk factors of asthma and COPD. For instance: (passive) smoking, pneumonia and other diseases, environmental exposure (living environment, pets, occupation, air pollution) and allergies.

genetic data

The Lifelines cohort provides a unique combination of genetic data and family relations. DNA data (GWAS) is available of nearly 13,000 participants.

health problems and drug use

Information regarding respiratory problems and symptoms have been surveyed according to the ECRHS method. Data regarding drug use (e.g. corticosteroids and beta sympathomimetic drugs) is available.

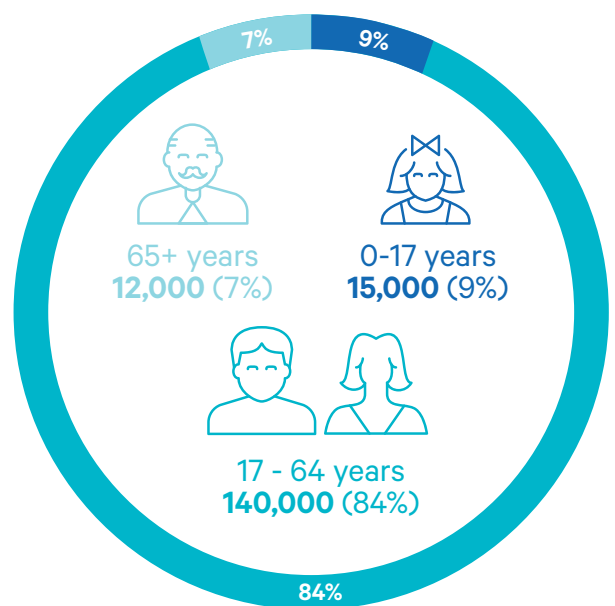
children

- Data from children: health problems and risk factors.
- Risk factors during pregnancy: (passive) smoking, environmental exposure (living environment, pets, occupation, air pollution).
- Risk factors after birth: premature birth, low birth weight, infections and allergies.



lifelines cohort and biobank

Lifelines is a large scale cohort study that includes over 167,000 residents in the north of The Netherlands. Lifelines works with a combination of questionnaires, measurements and collection of biological samples, thus providing a unique source for research. Participants from three generations are followed for at least 30 years to get insight in healthy ageing and the important factors in the onset and progression of diseases. Participants receive a questionnaire once every 1.5 years to collect a large diversity of data. Additionally, participants are invited to a Lifelines location for a screening once every 5 years. During this visit biological samples are collected and several measurements and tests are conducted. Biological samples are stored at -80 °C to ensure high quality and long term preservation.



total: 167,000 participants

available data & biological samples

measurements:

- anthropometry
- blood pressure
- ECG
- lung function
- cognition tests
- psychiatric interview

biological samples:

- blood (fasting)
- 24h urine
- faeces
- scalp hair
- DNA

follow up questionnaires:

- medical history
- lifestyle
- nutrition
- physical activity
- socio demographic factors
- quality of life
- symptoms
- personality
- stress
- social context
- etc.