

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
baseline



self-reported

1,600 newly reported
cases asthma

asthma 12,400
baseline

lung function test (spirometry) data on

106,200 adults (18 years and older)

7,600
children (8 - 17 years)



which of the Lifelines data could contribute to scientific research on asthma and COPD?

risk factors

A diverse data set is available on the risk factors of asthma and COPD. These include (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 relationships. DNA data (GWAS) are available on 13,000 participants.

health problems and drug use

Problems and symptoms related to respiratory diseases have been surveyed in questionnaires according to the ECRHS method. Data are also available on drug use (e.g. corticosteroids and beta sympathomimetic drugs).

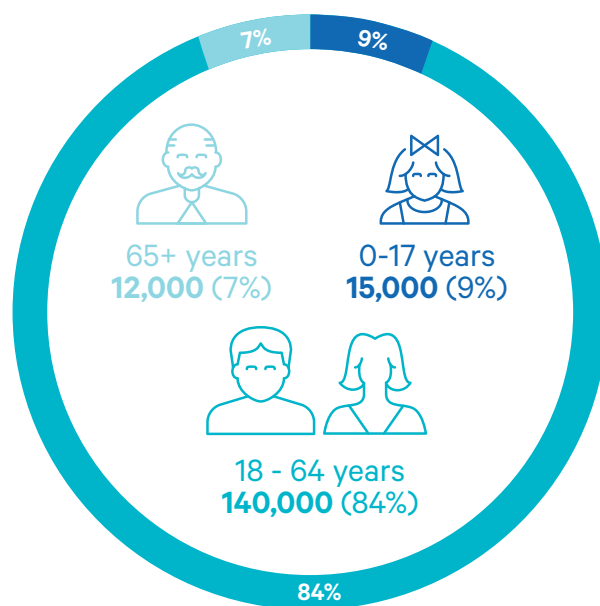
children

- Data on 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, multi-generational cohort study that includes over 167,000 participants from the northern population of the Netherlands. Lifelines works with a combination of questionnaires, measurements and biological samples; thus, providing a unique source for research purposes. Participants from three generations are followed for at least 30 years, to obtain insight into healthy ageing and the main factors relating to the onset and progression of diseases. Every 1.5 years, participants complete a questionnaire, in which they provide a wide variety of data. In addition, once every 5 years, participants are invited to visit a Lifelines location for a physical examination. 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
- cognitive tests
- psychiatric interview
- skin autofluorescence

biological samples:

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

questionnaires:

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