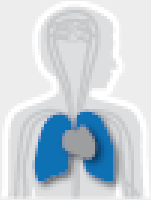
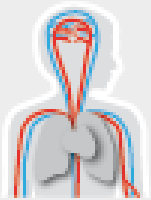


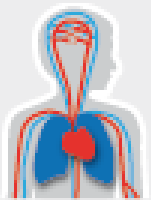
Heart Failure & Arrhythmias



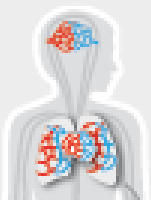
Pulmonary Hypertension  
& Thrombosis



Atherosclerosis  
& Ischemic Syndromes



Diabetes & Metabolism



Microcirculation

# Focus of research group (I)

Name PI: Joline Beulens

Department, UMC: Epidemiology & Biostatistics, VUmc

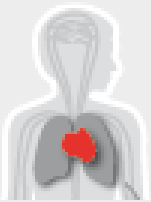
Size of research group: 4 assistant prof./postdoc, 11 PhD students, 7 research assistants

## Current mission, vision and aims

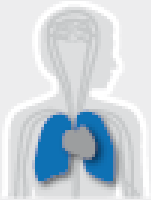
To prevent diabetes and its vascular complications by advancing and disseminating knowledge on:

- The aetiology of diabetes and its complications, in particular the role of lifestyle factors
- Early detection and prediction of diabetes and its vascular complications
- Developing and testing interventions to prevent diabetes and its vascular complications.

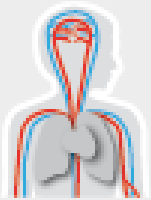
An indirect aim of the group is to translate this knowledge to clinical practice (eg. through guidelines). However, in the collaboration with general practice, this is mainly embedded there.



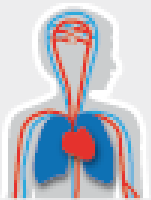
Heart Failure & Arrhythmias



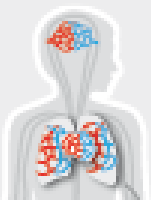
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Diabetes & Metabolism



Microcirculation

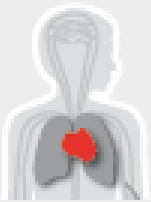
# Focus of research group (II)

## Current expertise

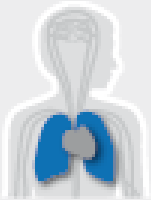
- Knowledge on health behaviours and its determinants
- Statistical modelling of determinants and prediction of diabetes and its complications in large observational cohorts
- Intervention studies on health behaviours
- Deep phenotyping (glucose metabolism, IMT, echo, CT)
- General methodological expertise
- Infrastructure of several large cohort studies (general population, diabetes patients); [www.hoornstudies.com](http://www.hoornstudies.com)

## Current funding

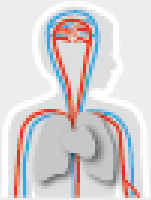
- Dr. Dekker senior postdoc and ZonMw VIDI: medial calcification and HFpEF in diabetes patients
- CVON Supreme Nudge: intervention on health behaviours to reduce cardiometabolic risk
- CVON EARLY-HFPEF: early detection of HFpEF
- Rhapsody, DIRECT, EMGO: improving prediction of diabetes and its progression (biomarkers, modelling)



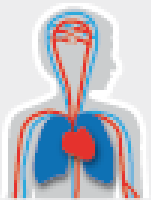
Heart Failure & Arrhythmias



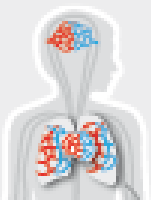
Pulmonary Hypertension  
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Atherosclerosis  
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Diabetes & Metabolism



Microcirculation

# Future plans

## Mid-term (1-5 year) plan

Plan:

Upstream determinants of health behaviours

Focus on HFpEF in diabetes patients

Improve prediction of vascular complications

Necessary infrastructure:

Extended follow-up in cohorts

Echocardiography in diabetes cohort

New follow-up round in new Hoorn Study

## Collaboration in ACS

**Call to participate in extension of new Hoorn Study in-kind by different expertises and departments.**