

Master's Programme Epidemiology

Leo Schouten, PhD
Programme coordinator

Master's Open Day
7 March 2020



Leo Schouten, PhD Programme coordinator

- Medicine (1975-1981)
- PhD in Cancer Epidemiology (1996)
- Head of Cancer Registry (1983-2000)
- Associate Professor in Cancer Epidemiology, UM (2000-)

Main research focus: causes and prognosis of cancer



Martijn Bours, PhD Vice-programme coordinator

- BSc Physiotherapy (1994-1999)
 - MSc Human Movement Sciences (1999-2001)
 - PhD in Epidemiology (2007)
 - Assistant Professor in Epidemiology, UM (2007-)
- Main research focus: quality of life in cancer survivors*



Content

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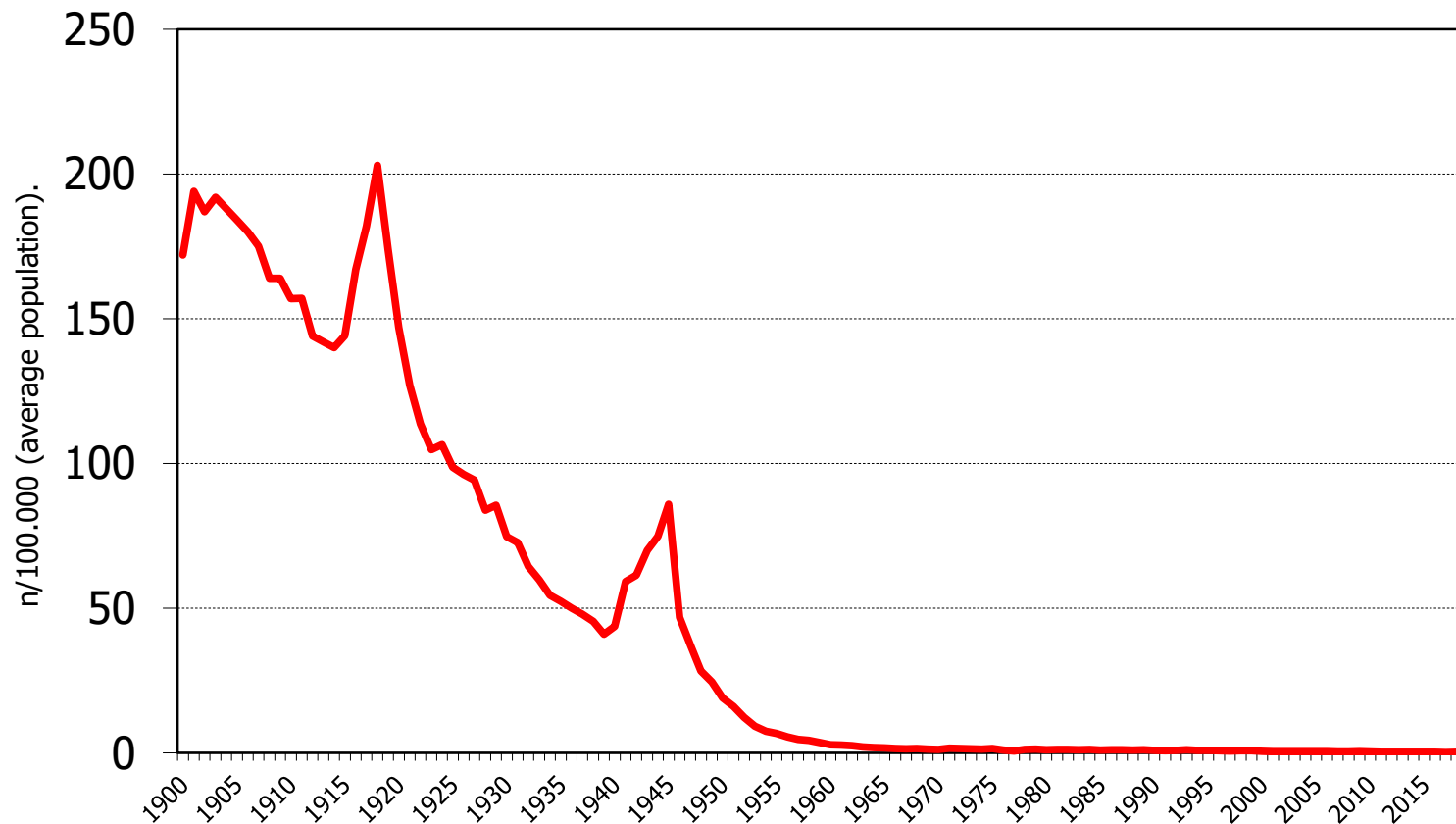
What is Epidemiology about?

“A fascinating field using statistics, tracking methods and problem solving to study the causes and course of diseases and the effect of clinical interventions in a community”

Why?

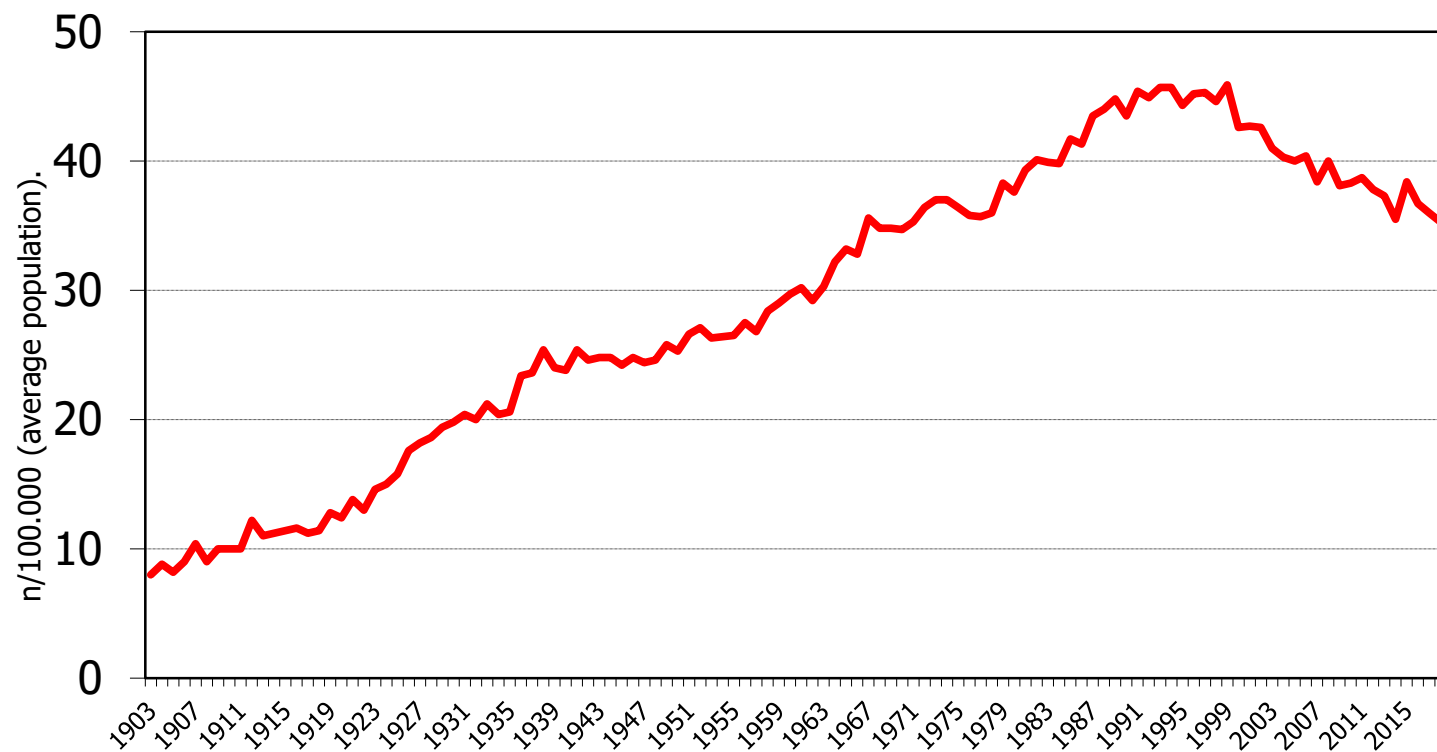
- It is fundamental to improving public health
- Collaboration with many different scientific disciplines
- It is about real-life

Tuberculosis Mortality, the Netherlands, 1900-2018



Source: CBS (Statline): www.cbs.nl; assessed 10-02-2020

Breast Cancer Mortality (females), the Netherlands, 1900-2018



Source: CBS (Statline): www.cbs.nl; assessed 04-03-2020

What is Epidemiology about?

Study Suggests That Moderate Drinking May Be Better Than Those Who Totally Abstain



by Tyler Durden
Sat, 02/29/2020 - 19:50

Authored by Elias Marat via TheMindUnleashed.com

Enjoying a small bit of booze on a daily basis could be better for your health, researchers have found.



The study, spearheaded by a team of scientists at the University of Oxford, found that men and women who indulge in a daily drink are 4% less likely to die than those who completely abstain.



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YOU'RE READING



Who is 'patient zero' in the coronavirus outbreak?

HEALTH



By Fernando Duarte
24th February 2020

As the cases of coronavirus increase in China and around the world, the hunt is on to identify "patient zero".

But coronavirus is not the only disease where researchers say

Results bolster case for more widespread screening of heavy smokers who are at higher risk, researchers say

By Brianna Abbott

Updated Jan. 29, 2020 5:46 pm ET



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Intermezzo: 'smoking and cancer'

- Associated with increased risk of many types of cancer, e.g.:
 - Lung cancer
 - Head & neck cancer
 - Bladder cancer
 - Renal cell cancer, etc
- There is one cancer with a **decreased** risk...
- Analysis using data from the Netherlands Cohort Study on diet and cancer, one of the large population studies of our department

Smoking and endometrial cancer



Smoking status	Relative Risk	95% CI
Never	reference	reference
Former	-17%	-42 to +20%
Current	-41%	-60 to -12%

Loerbroks *et al*, Cancer Causes Control, 2007

Explanation and implications?

Why Epidemiology in Maastricht?

- One-year master
- A general, solid theoretical, methodological, and statistical basis for designing and implementing research projects
- The opportunity to conduct an impactful research project under the guidance of a personal supervisor
- A stimulating international academic environment
- Recognized for registration as 'epidemiologist A' by the Netherlands Epidemiological Society (April 2018)

Why Maastricht: two choices

Master of Epidemiology, 1 year full-time

Master of Epidemiology, 2 years part-time

Main topics of the master

Courses on:

- Observational Research
- Intervention Research
- Advanced Statistical Analyses
- Clinimetrics
- Genetic and Molecular Epidemiology
- Systematic Literature Review and Meta-analysis
- Writing a research protocol
- Internship and theses, wide range of topics

Course outline / Epidemiology full-time

Period	Education at: Tuesdays		Fridays	Weeks
1	Introduction to Epidemiology 1 ECTS			1
1	Observational Research 6 ECTS		Intervention Research in Health Care 5 ECTS	7
2	Advanced Statistical Analysis Techniques 6 ECTS	Writing a Research Question and outline 1 ECTS	Clinimetrics 5 ECTS	8
3	Applied Epidemiology 3 ECTS		Molecular and Genetic Epidemiology 3 ECTS	4
4	Writing a Research Protocol 6 ECTS		Systematic Literature Review 6 ECTS	8
5&6	Master Research and Thesis 18 ECTS			12



Course outline / Epidemiology part-time

Year	Period	Education at: Tuesdays	Fridays	Weeks
1	1	Introduction to Epidemiology 1 ECTS		1
	1	Observational Research 6 ECTS		7
	2	Advanced Statistical Analysis Techniques 6 ECTS	Writing a Research Question and Outline 1 ECTS	8
	3	Applied Epidemiology 3 ECTS		4
	4	Writing a Research Protocol 6 ECTS		8
	5&6	Master Research and Thesis 18 ECTS		12
2	1		Intervention Research in Health Care 5 ECTS	7
	2		Clinimetrics 5 ECTS	8
	3		Molecular and Genetic Epidemiology 3 ECTS	4
	4		Systematic Literature Review 6 ECTS	8
	5&6		Master Research and Thesis 18 ECTS	12

Educational methods

- Problem-based learning: small groups under supervision of teachers
- Lectures
- Practicals
- Writing skills
- Presentations
- Internship with intensive and individual supervision


Application deadlines to start in September 2020

- **Non-EU/EEA-students**
up to and including 1 May 2020
- **EU/EEA-students**
up to and including 1 June 2020

Admission related questions?

Please visit the stand from the Board of Admission at the study information market for a personal talk with our staff members

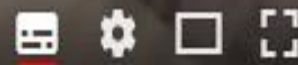




MARJOLEIN I am doing the Epidemiology master.

Maastricht University

0:15 / 2:48

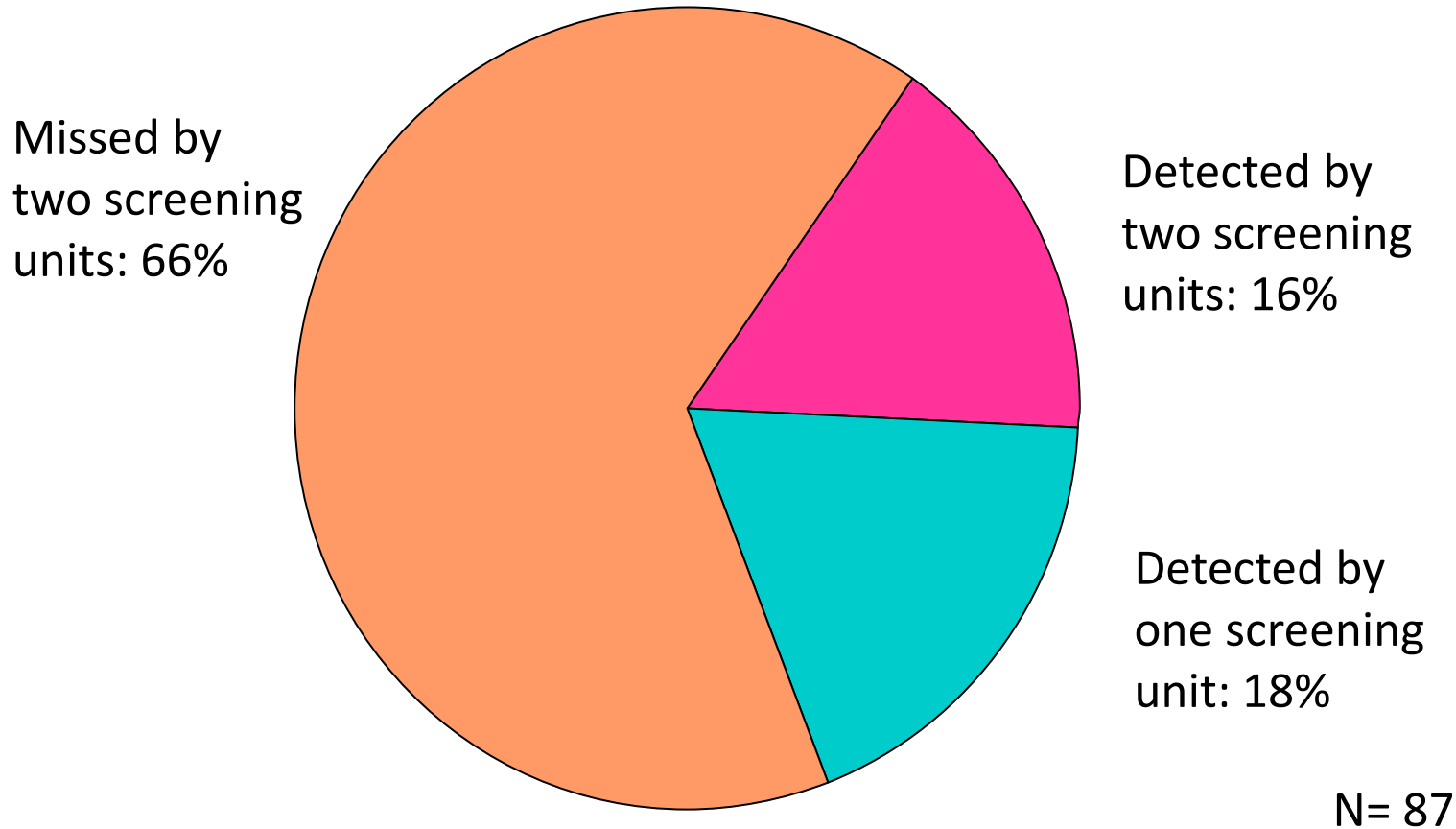


Intermezzo 2: 'interval breast cancer'

- In 1990 the breast cancer screening programme was started in the Netherlands
- Aim to reduce breast cancer mortality
- Women aged 49 to 74 are invited once every two years;
- Mammograms are read by two radiologists independently
- But cancers can be missed...



Intermezzo 2: Re-evaluation of interval cancers



Career perspectives

PhD
student

- As PhD student

Research
and
teaching

- Universities, hospitals
- Pharmaceutical companies
- National institutes like TNO, RIVM

Health
policy

- Local, regional or national level
- e.g. municipal health services


See the list of job titles of our alumni at the information market





Vacature

Onderzoeker

 Organisatie: GGD Flevoland

 Reageer voor 4 maart 2020

Wil jij je onderzoeks-skills inzetten voor een gezondere samenleving? Bureau X van GGD Flevoland zet in op innovatie in onderzoek om de gezondheidstoestand van de Flevolandse bevolking te verbeteren. We verzamelen veel data over gezondheid en ontwikkelen informatietools waarmee we de belangrijkste gezondheidsproblemen helpen aan te pakken, zowel binnen de preventieve als de acute gezondheidszorg. Zo zijn we de eerste GGD in Nederland waarbij onze ambulances met behulp van een realtime prescriptief model optimaal worden ingezet. Wil jij ook je passie voor rekenen inzetten om maatschappelijke problemen aan te pakken?

Bij Bureau X is een vacature ontstaan voor de functie van:

ONDERZOEKER

voor 32-36 uur per week,
standplaats Almere

Vacancies



Junior researcher Pharmo

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In je dagelijkse werk houd je je bezig met het in teamverband uitvoeren van analyses en (deel)opdrachten uit onder andere statistische analyses, gegevensverwerking en literatuuronderzoek. De resultaten van het onderzoek worden weergegeven in rapporten of wetenschappelijke publicaties. Je draagt bij aan vernieuwingen op één of meer themagebieden en bent resultaat gericht.

De afdeling Onderzoek: maakt gebruik van methoden en technieken op het gebied van de klinische epidemiologie en farmaco-epidemiologie in het bijzonder; de statistiek en biostatistiek; de farmacovigilantie en postmarketing surveillance; de farmaco-economie en gezondheidseconomie; beleids- en maatschappelijk geneesmiddelenonderzoek.

Wij zoeken een collega die:

- een academische opleiding in de geneeskunde, farmacie of gezondheidswetenschappen (studie farmacie is een pré) succesvol heeft afgerond;
- ervaring heeft op het gebied van epidemiologisch/economisch onderzoek en kennis heeft van statistiek en gerelateerde software (kennis van SAS is een pré);
- een goede beheersing heeft van de Engelse taal en goede schriftelijke vaardigheden (wetenschappelijke publicatie(s) is een pré) bezit;
- kan meedenken met en hebt inhoudelijk oog heeft voor de ontwikkeling op relevante terreinen in de gezondheidszorg;
- klantgericht, communicatief en zakelijk is ingesteld;
- zich herkent in de volgende eigenschappen: betrokken, doorzetter, creatief, eerlijk en duidelijk, humor, flexibel.

Vacancies

PhD position
Maastricht University

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< Alle vacatures

⋮ Promovendus Faculty of Health Medicine and Life Sciences / School for Mental Health and Neuroscience

Geplaatst	Deadline	Locatie
13 dec	10 jan	Maastricht






Risk reduction of dementia in the GP practices

Vacancies


Clinical Study Researcher Danone


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Clinical Study Researcher

Danone • Utrecht, NL

 This job is no longer accepting applications

 [6 company alumni work here](#)

Do you have the enthusiasm and drive to use your scientific and methodological expertise in clinical research projects in humans? Would you like to have an impact on the health of vulnerable persons by delivering credible evidence for our nutritional solutions? Then this might be just what you are looking for! Make sure to apply now to join our team based in Utrecht, the Netherlands.

Your mission

You will use your methodological and scientific expertise in different phases of a clinical study in humans ranging from the early phase of translating business needs in the right study design to writing the clinical study report and being involved in writing scientific publications.

As a Clinical Study (CS) Researcher, you will be a member of the Clinical

Industry
Consumer Goods, Food & Beverages,
Food Production

Employment Type
Full-time

Job Functions
Research, Analyst,
Information Technology

Meet...

a former student



Stevie Hendriks

Educational background

- Bachelor Medicine
- Master Epidemiology

Why did I chose Epidemiology?

- Research! Gain more knowledge in population-based research
- Gain more knowledge in statistics

Current position

- PhD at the Alzheimer Center Limburg, Maastricht University

Tasks

- Doing my own research!
- Following courses
- Teaching
- PhD representative
- Going to conferences



PRECODE

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Prevalence and recognition of young onset dementia

- National project, involving 4 Alzheimer Centers in the Netherlands
- Prevalence of dementia under the age of 65
- Improving recognition of young onset dementia in the GP's office

How?

- Systematic review on all studies reporting prevalence and incidence of young onset dementia
- Prospective cohort study measuring prevalence in Rotterdam
- Case control study on the recognition of young onset dementia

Meet...

a current student





Hi, my name is Mina from Serbia,
Epidemiology master's student

Follow me on Instagram and find out
more about my study experiences and
my life in Maastricht!

extramile_mina

Questions?



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