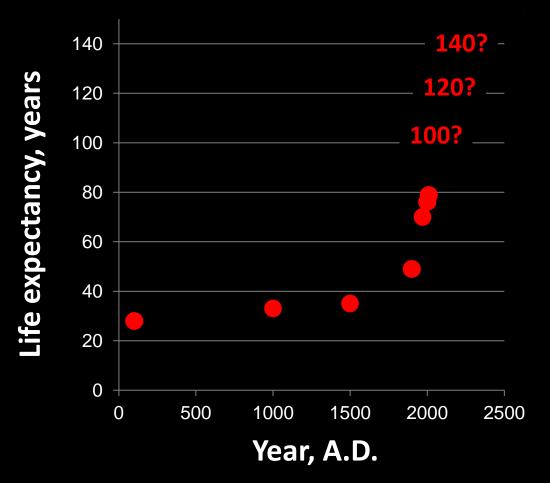


#### Jaap Goudsmit

Professor, AMC-UvA Head, Life Sciences Cluster Amsterdam Economic Board Director, Crucell Vaccine Institute



# Life expectancy almost doubled in one century



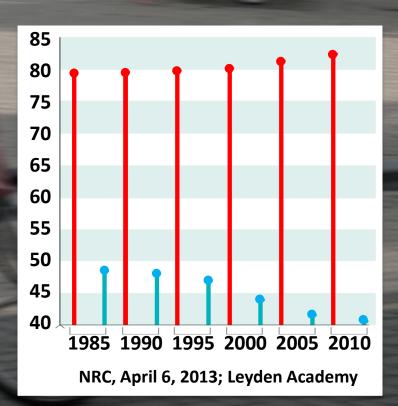


## Where does it stop?



25-09-2013, Netherlands Interdisciplinary Demographic Institute

## Are we dying more slowly?



# Will all of us live a longer life of suffering?

**Heart Disease** 

Stroke

Cancer

Alzheimer's

#### Amour. Michael Haneke (2012)

## Immorbidity

#### Search results

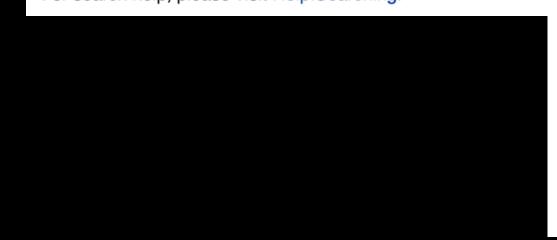
For search options, see Help:Searching.

immorbidity

Search

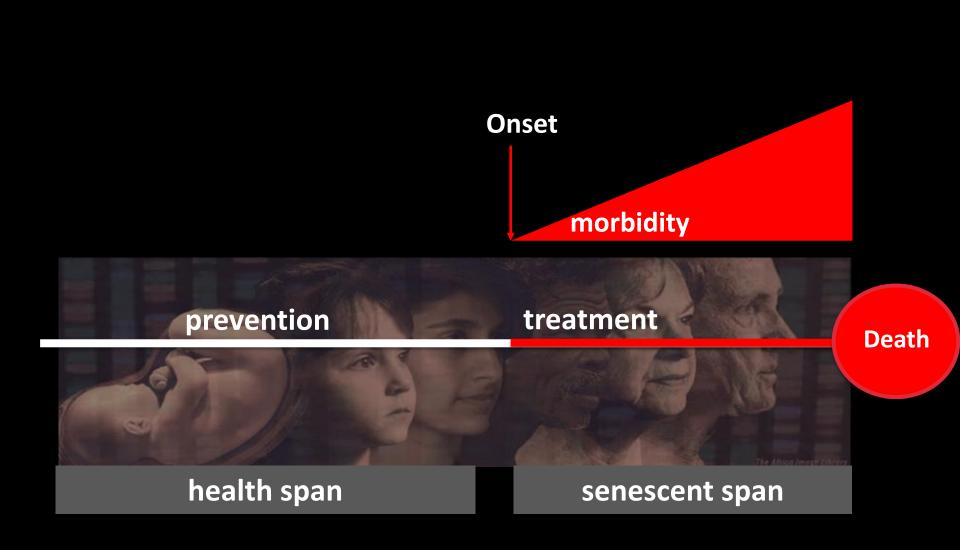
#### Did you mean: *immortality*

The page "Immorbidity" does not exist. You can ask for it to be created, but consider checking the search results below to see whether the topic is already covered. For search help, please visit Help:Searching.

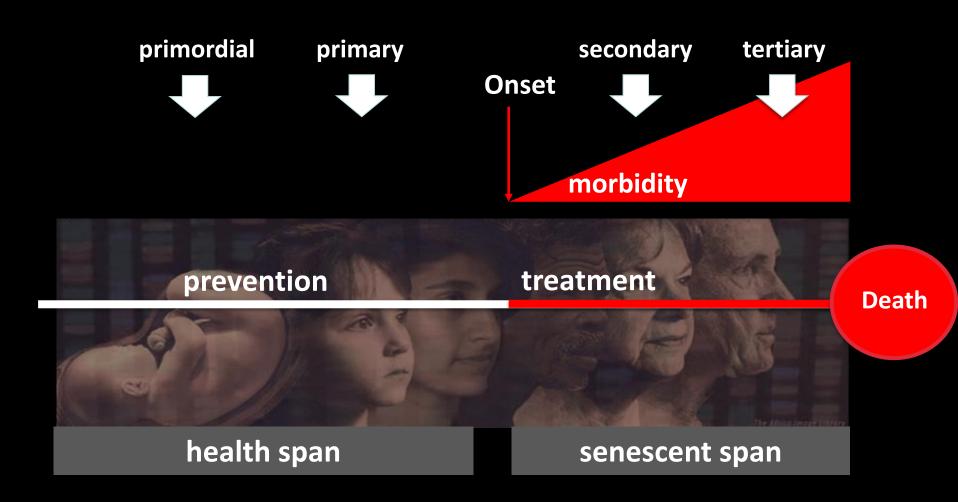




#### How to reduce morbidity and increase healthy aging?



#### How to reduce morbidity and increase healthy aging?



## **Geriatric Killers**

#### Cancer

#### **Heart Disease**

#### Stroke

#### Alzheimer's

Murray, Lancet 2012; Nature 2012

Geriatric Killers Risk Factors



#### Heart Disease Smoking, obesity

Stroke Smoking, obesity

#### Alzheimer's ???

Murray, Lancet 2012; Nature 2012

## Key Areas of Regional Importance

## Obesity



\*\* matches the region's triple helix excellence the best

## Oncology



### • Alzheimer's



## The worldwide prevalence of obesity has more than doubled between 1980 and 2008

WHO, 2013

......

By 2030 in the EU Obesity and its co-morbidities will cost €100 billion/yr

I, Vullings W, Zuijdam F (eds) 2010 European Priorities



## The **"triple helix"** route to innovation

Government University Industry

## **Triple Helix Icon of Amsterdam**



#### Samuel Sarphati 1813-1866



#### an fie for fan fie

#### EXPRESSION OF HUMAN IMMUNODEFICIENCY VIRUS ANTIGEN (HIV-Ag) IN SERUM AND CEREBROSPINAL FLUID DURING ACUTE AND CHRONIC INFECTION

Jaap Goudsmit<sup>a</sup>, DeborahA. Paul<sup>c</sup>, JoepM.A. Lange<sup>a</sup>, Hans Speelman<sup>b</sup>, Jan Van Der Noordaa<sup>a</sup>, HayoJ. Van Der Helm<sup>b</sup>, Frank De Wolf<sup>a, f</sup>, LeonG. Epstein<sup>d</sup>, WillyJ.A. Krone<sup>a</sup>, EricCh. Wolters<sup>e</sup>, JamesM. Oleske<sup>d</sup>, RoelA. Coutinho<sup>f</sup>

#### THE LANCET



#### Declining incidence of AIDS dementia complex after introduction of zidovudine treatment BMI VOLUME 299 30 SEPTEMBER 1989

Peter Portegies, Jan de Gans, Joep M A Lange, Mayke M A Derix, Hans Speelman, Margreet Bakker, Sven A Danner, Jaap Goudsmit



Jaap Goudsmit\*<sup>†</sup>, Neil Renwick\*, Nicole H. T. M. Dukers<sup>‡</sup>, Roel A. Coutinho<sup>‡</sup>, Siem Heisterkamp<sup>§</sup>, Margreet Bakker\*, Thomas F. Schulz<sup>1</sup>, Marion Cornelissen\*, and Gerrit J. Weverling<sup>§</sup>

Volume 336, Issue 8715, 8 September 1990, Pages 585–590

Originally published as Volume 336, Issue 8715

#### THE LANCET

#### Zidovudine sensitivity of human immunodeficiency viruses from high-risk, symptom-free individuals during therapy

C.A.B. Boucher, MD,<sup>a</sup>, J.M.A. Lange, MD,<sup>a, b</sup>, Prof J. Goudsmit, MD <sup>a</sup>, <sup>a</sup>, J.W. Mulder, MD<sup>b, d</sup>, M. Tersmette, MD,<sup>c</sup>, R.E.Y. de Goede<sup>c</sup>, P. Kellam, BSc<sup>e</sup>, G. Darby, PhD,<sup>e</sup>, B.A. Larder, PhD<sup>e</sup>



## The Sarphati Institute Triple Helix Research Center for New Epidemics

www.SarphatiInstitute.nl

## Government

#### History of strong public-private partnerships

#### **Municipal Health Services (GGD) infrastructure**

### National commitment "topsector" life sciences & health

## National and Amsterdam funding available to life sciences & health

## University

 VU and UvA expertise and leadership in EU collaborations on obesity High profile projects with European **Commission funding** - EPODE childhood obesity prevention techniques - ENERGY prevent excess weight gain in youth - SPOTLIGHT sustainable prevention of obesity - Healthy Living Israeli childhood obesity prevention

## Industry



## Life Sciences & Health Team



Jaap Goudsmit Head of Cluster A'dam Economic Board



#### Sandra Migchielsen Cluster Manager A'dam Economic Board



Quido Valent Cluster Manager A'dam Economic Board



Elzeline de Jong Policy Advisor A'dam Economic Affairs



#### Jessica Meijer Cluster Member Crucell Vaccine Institute

## Life Science Cluster

#### **Cluster decentralization**

## Collaborative groups representing triple helix

## Seminars, symposia, debates