

# Die aks Gesundheitsdatenbanken und ihre internationale Bedeutung

Hans Concin



aks science  
aks Database



Vorarlberg Cancer Registry



**50 Jahre aks**

6. Juni 2014



## Gründung des aks Vereins 1964

- OMR Dr. Leopold Bischof
  - Präsident der Vorarlberger Ärztekammer
- HR Dr. Hermann Girardi
  - Gruppenvorstand für Soziales und Gesundheit der Vorarlberger Landesregierung

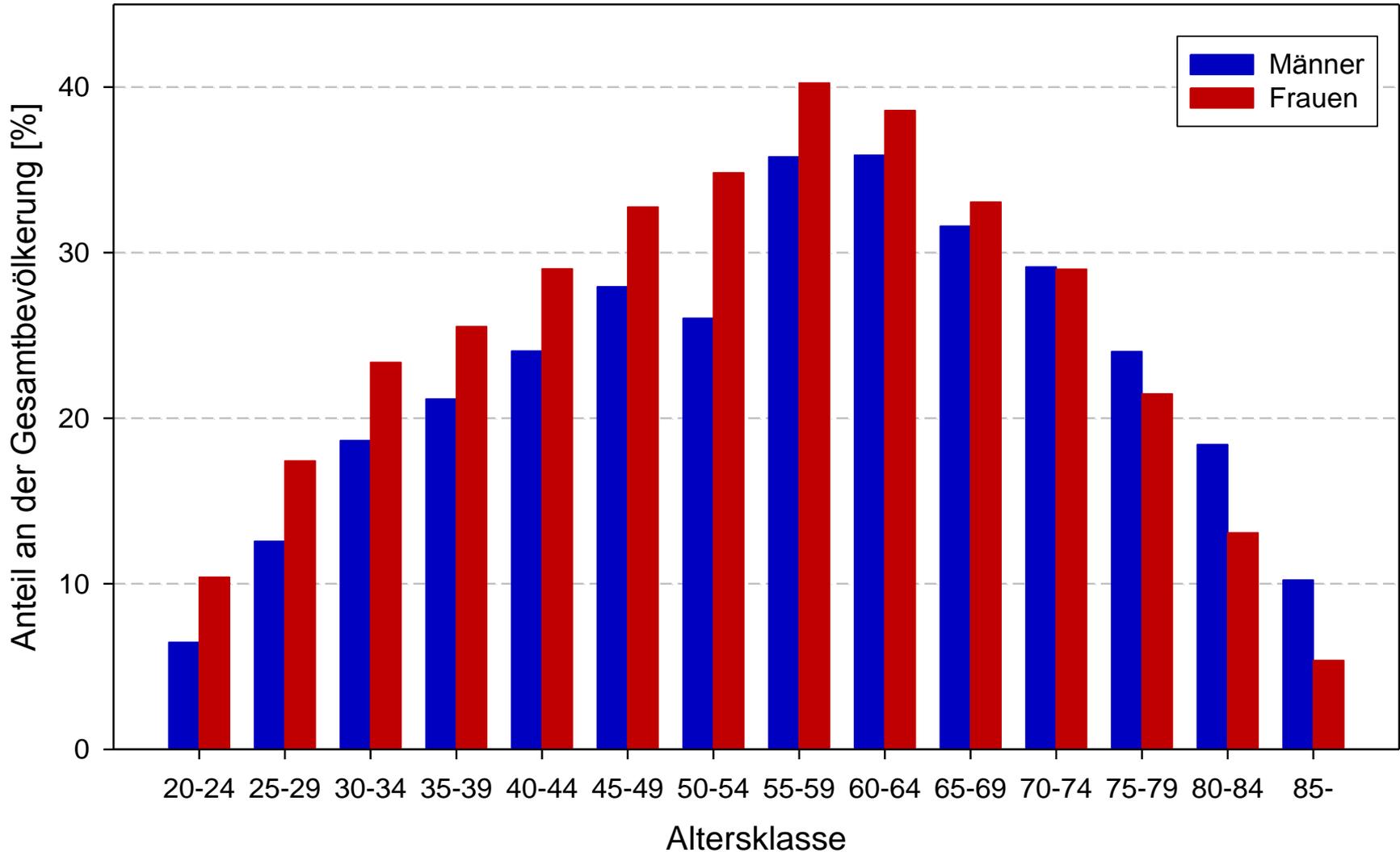


Ziel des aks:

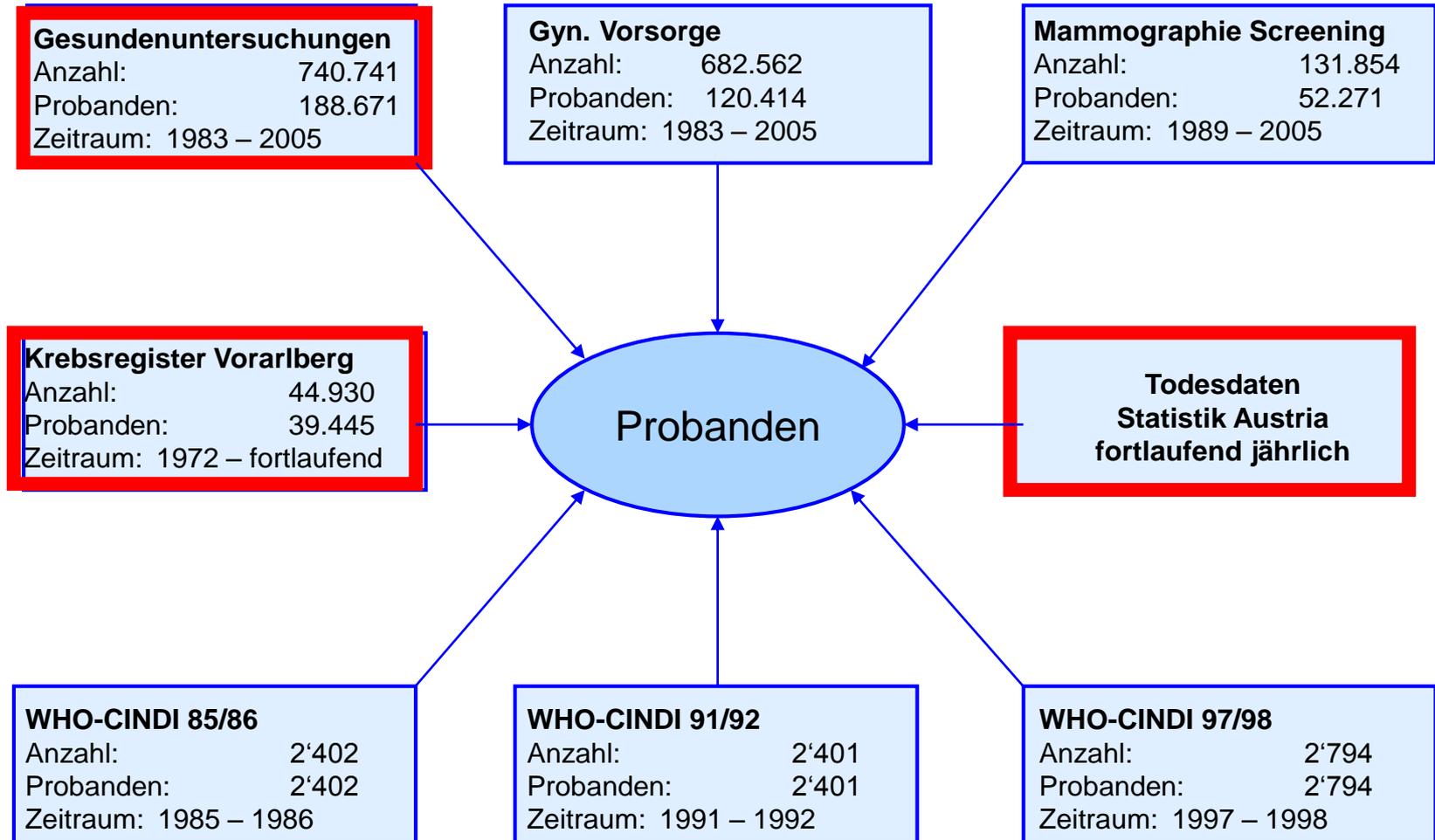
„Wir unterstützen die Bevölkerung Vorarlbergs bei der Erhaltung der Gesundheit und Förderung des körperlichen, seelischen und sozialen Wohlbefindens.“

# The Vorarlberg Health Monitoring & Promotion Programme (VHM&PP)

## Teilnahmeraten an der GU in 2000/2001



# The Vorarlberg Health Monitoring & Promotion Programme (VHM&PP)



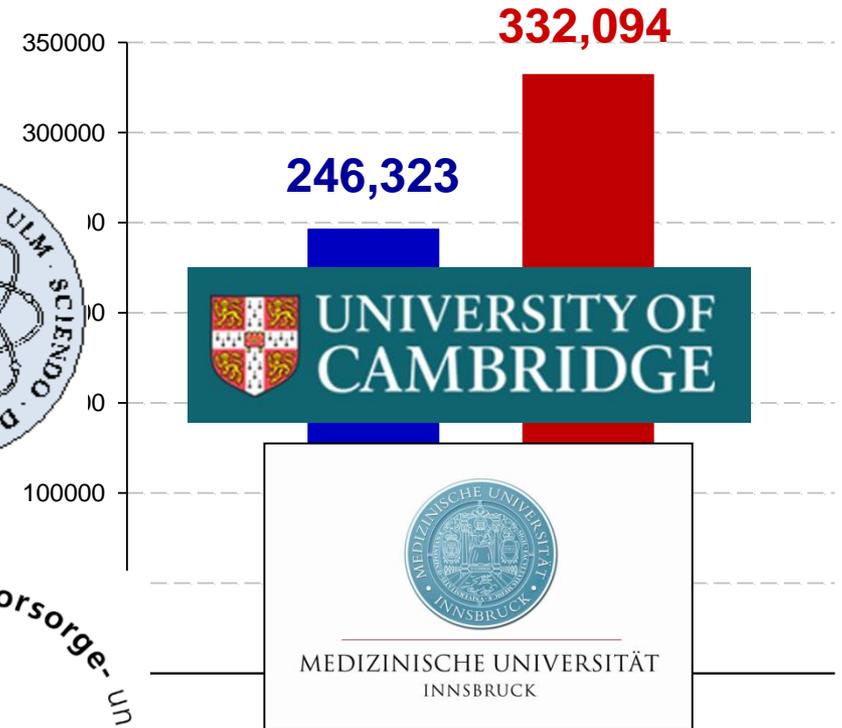
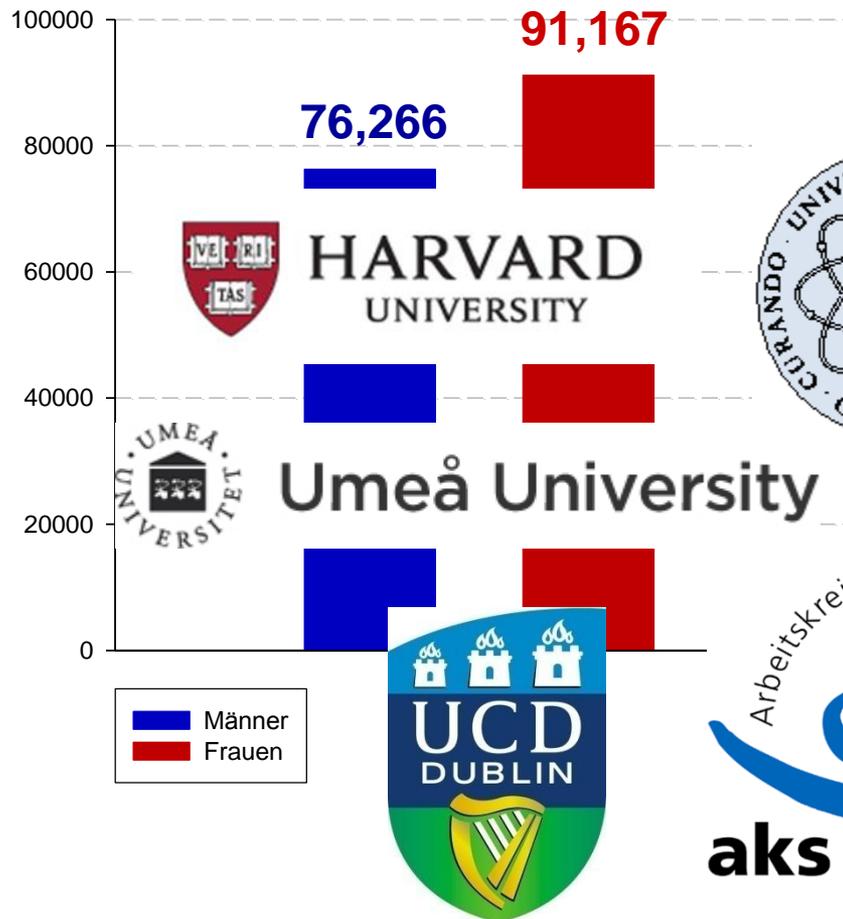
# The Vorarlberg Health Monitoring & Promotion Programme (VHM&PP)

## Teilnehmer und Messungen seit 1983



Anzahl der Personen

Anzahl der Messungen



National Institute on Aging ■ ◆ ★ ✨

## Gespeicherte Daten der GU

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- Risikofaktoren  
(Rauchen, Alkohol, Stress)

- Blutzucker

- Harnsäure
- Triglyceride
- Beruf
- Stand

- Cholesterin

- $\gamma$ -GT

- Blut im Stuhl

- Größe

- Gewicht

- Blutdruck

- Puls



# Metabolic mediators of the effects of body-mass index, overweight, and obesity on coronary heart disease and stroke: a pooled analysis of 97 prospective cohorts with 1.8 million participants

*The Global Burden of Metabolic Risk Factors for Chronic Diseases Collaboration (BMI Mediated Effects)\**

## Summary

**Background** Body-mass index (BMI) and diabetes have increased worldwide, whereas global average blood pressure and cholesterol have decreased or remained unchanged in the past three decades. We quantified how much of the effects of BMI on coronary heart disease and stroke are mediated through blood pressure, cholesterol, and glucose, and how much is independent of these factors.

**Methods** We pooled data from 97 prospective cohort studies that collectively enrolled 1.8 million participants between 1948 and 2005, and that included 57 161 coronary heart disease and 31 093 stroke events. For each cohort we excluded participants who were younger than 18 years, had a BMI of lower than 20 kg/m<sup>2</sup>, or who had a history of coronary heart disease or stroke. We estimated the hazard ratio (HR) of BMI on coronary heart disease and stroke with and without adjustment for all possible combinations of blood pressure, cholesterol, and glucose. We pooled HRs with a random-effects model and calculated the attenuation of excess risk after adjustment for mediators.

**Findings** The HR for each 5 kg/m<sup>2</sup> higher BMI was 1.27 (95% CI 1.23–1.31) for coronary heart disease and 1.18 (1.14–1.22) for stroke after adjustment for confounders. Additional adjustment for the three metabolic risk factors reduced the HRs to 1.15 (1.12–1.18) for coronary heart disease and 1.04 (1.01–1.08) for stroke, suggesting that 46% (95% CI 42–50) of the excess risk of BMI for coronary heart disease and 76% (65–91) for stroke is mediated

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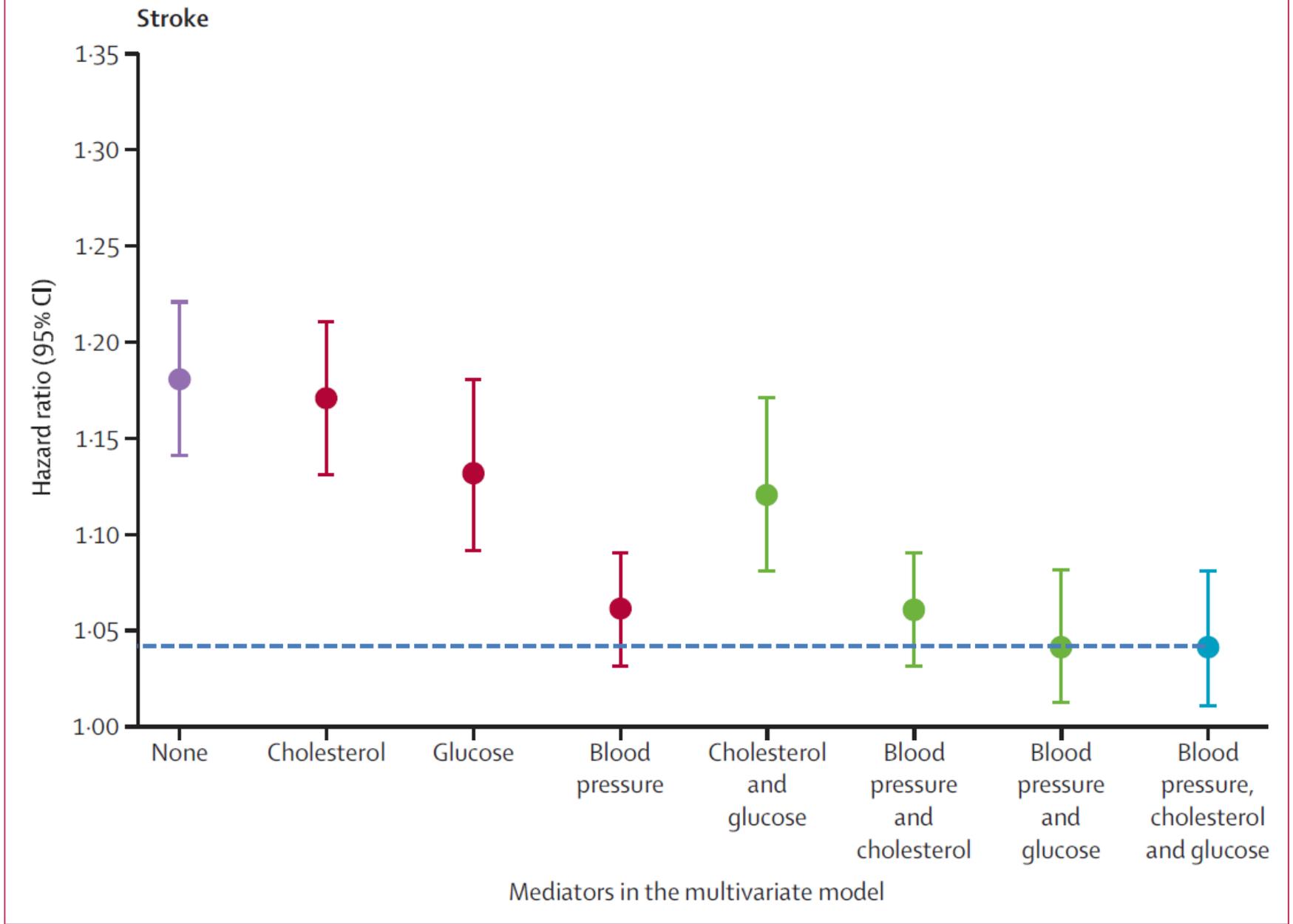
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\*Members of the Writing and Pooling, and Collaborating Group are listed at end of paper

Correspondence to:

Goodarz Danaei, Department of Global Health and Population, Harvard School of Public Health, Boston, MA 02115, USA  
[gdanaei@hsph.harvard.edu](mailto:gdanaei@hsph.harvard.edu)

Uppsala Longitudinal Study of Adult Men (ULSAM)	Sweden	1991-1995	End of 2008	1221
US Railroad Cohort, Seven Countries Study	United States	1957-1959	25	2216
Ventimiglia di Sicilia Heart Study	Italy	1989	15	685
Vorarlberg Health Monitoring & Promotion Programme (VHM&PP)	Austria	1985-2005	14.4	185316
Western Collaborative Group Study (WCGS)	United States	1960	33	3152
Whitehall I Study	United Kingdom	1967-1970	End of 2010	14283
Whitehall II Study	United Kingdom	1991-1993	End of 2010	6687
Women's Health Initiative Study (WHI-OS)	United States	1993-1998	End of 2005	69351
Women's Health Initiative: Clinical Trials (WHI-CT)	United States	1993	7	3836
Yunnan Tin Miner Cohort Study	China	1992	4.5	1919



**Figure 1: Hazard ratios per 5 kg/m<sup>2</sup> higher body-mass index adjusted for different combinations of mediators in coronary heart disease and stroke**

# The mediation of the effects of BMI on coronary heart disease and stroke by blood pressure, serum cholesterol and glucose: pooled analysis of 97 prospective cohorts with 1.8 million participants



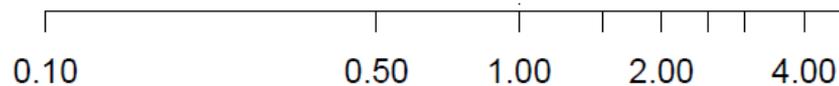
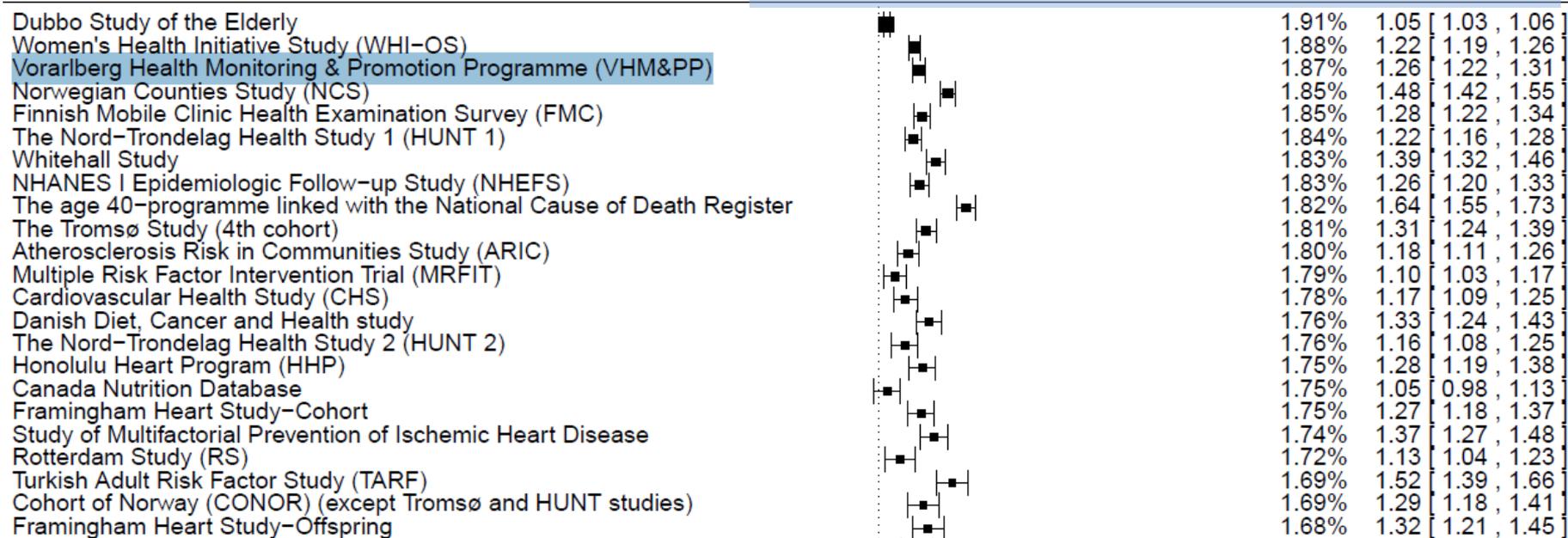
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**Cohort Name**

**Weight (%) RR [95% CI]**



Relative risk

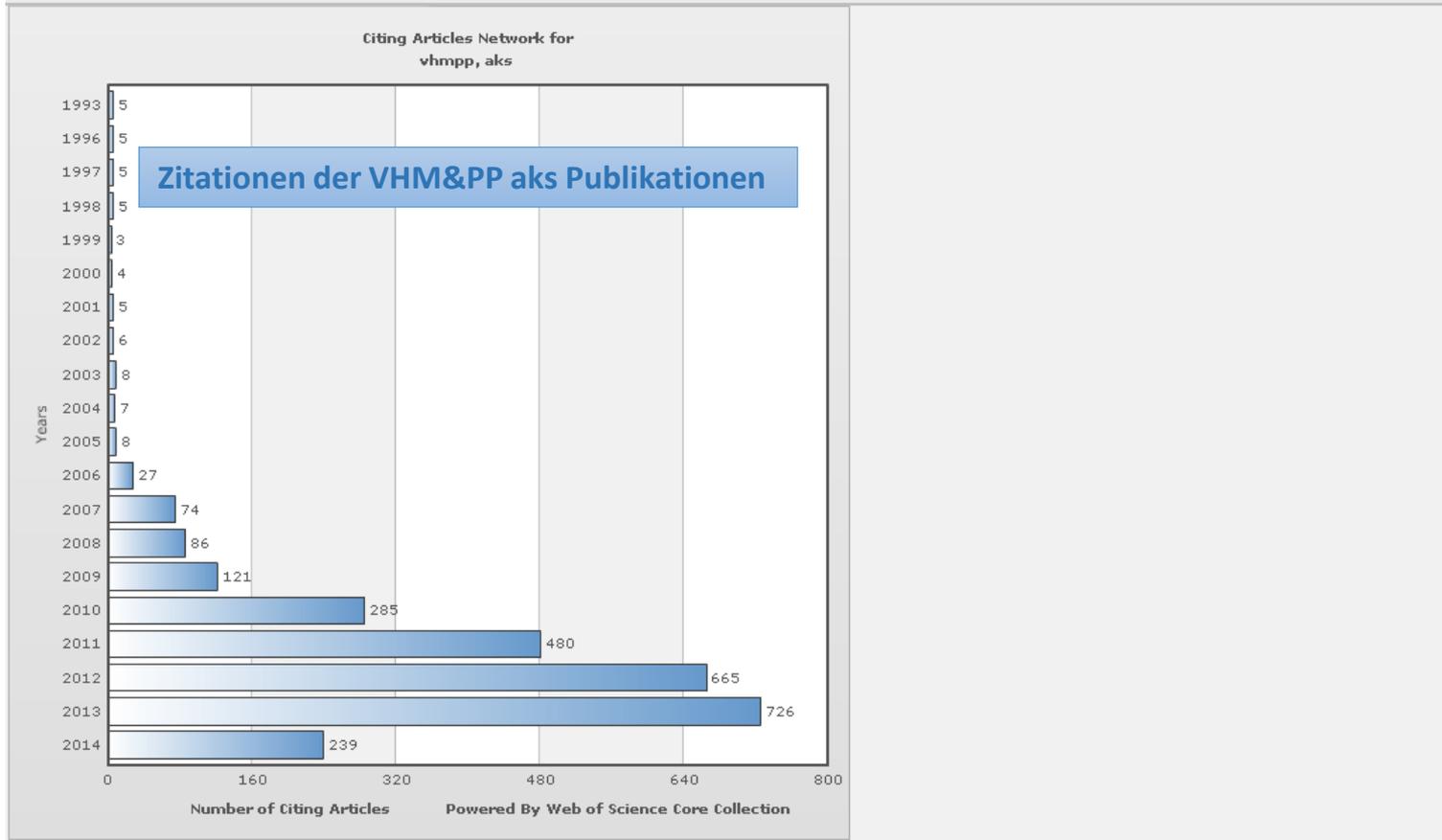
# The Vorarlberg Health Monitoring & Promotion Programme (VHM&PP)

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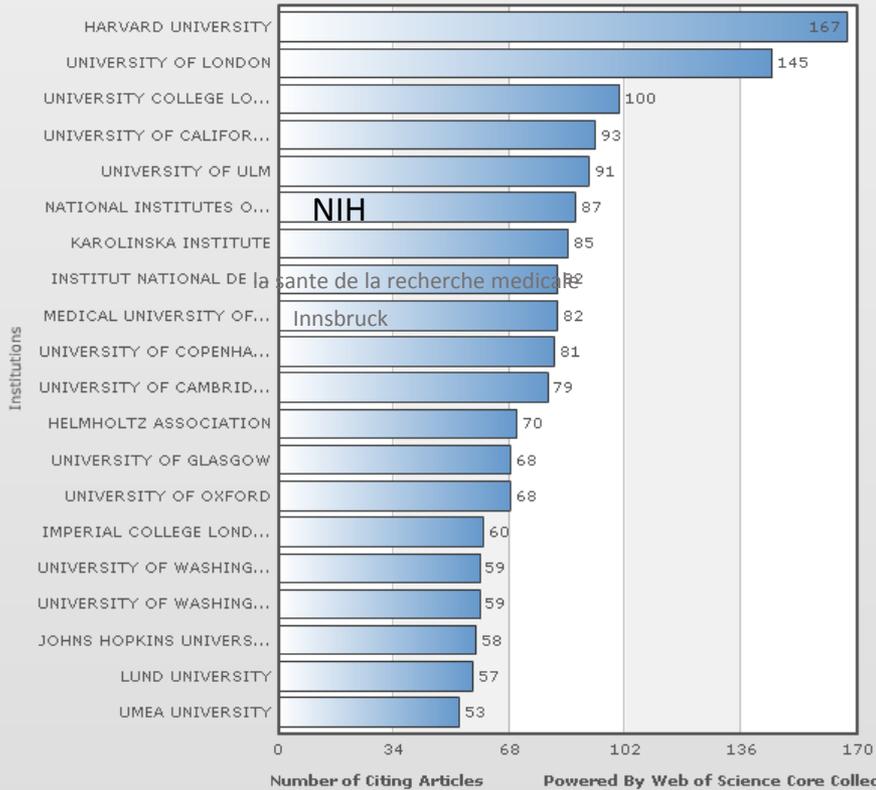
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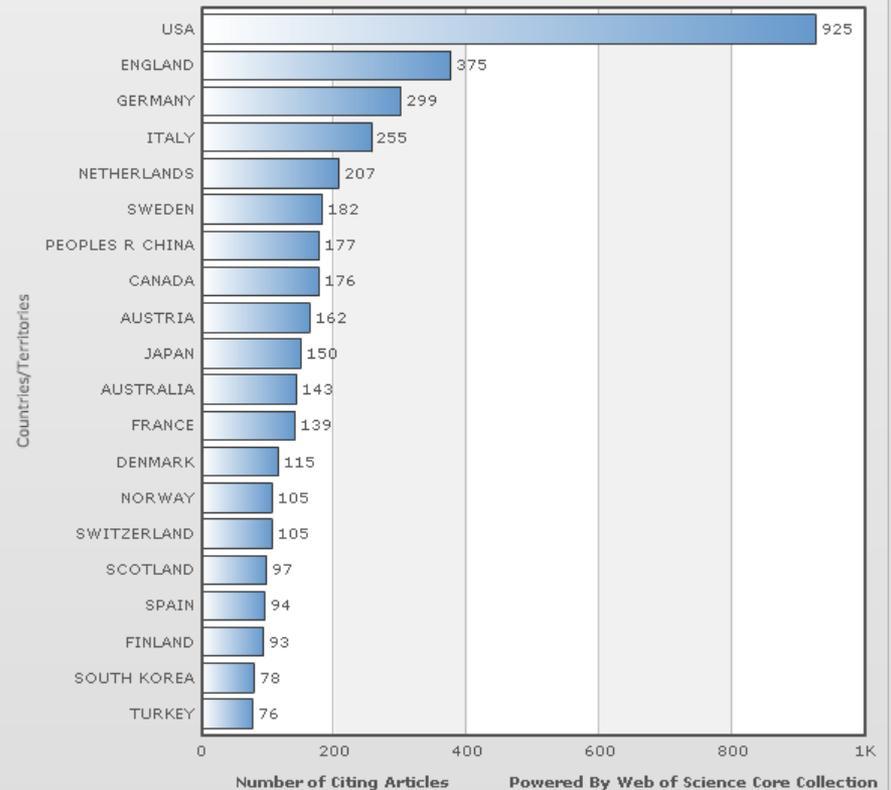
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# Die aks Gesundheitsdatenbanken und ihre internationale Bedeutung

Hans Concin



- Dank



- Idee und Umsetzung der aks Gründungsväter
  - Finanzierung durch die Landesregierung,
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  - Prof. Dr. Mag. Hanno Ulmer
  - Prof. Dr. Gabriele Nagel MPH
    - und viele mehr ...