WELCOME TO HEALTH SCIENCES

www.utwente.nl/go hs
1. INTRODUCTION
GOVERT VERHOOG, PROGRAMME MANAGER
Een ziekenhuis in verval

Slotervaartziekenhuis Vier jaar geleden dreigde het Slotervaartziekenhuis ten onder te gaan aan geldgebrek, interne ruzies, belangenverstrengeling en een onvoorspelbare eigenaar. Overname door zakenmensen moest redding brengen. Maar de patiënt is niet echt opgeknapt.

Simpele antwoorden op de schuldvraag in het zorgdebacle zijn er niet

Faillissement ziekenhuizen
Machtsmisbruik, wanbeleid, gegraai, marktwerking, de schuldvraag ligt bij het zorgdebacle direct op tafel. Maar de ziekenhuiszorg in Nederland is complex georganiseerd.
Campagne met patiënten moet tiener aan de meningokokkenprik krijgen

Terwijl de vaccinatiegraad in Nederland daalt, roept het RIVM op om nog een extra inenting te halen. Vanaf volgende week krijgen zo'n 130 duizend Nederlandse 14-jarigen een uitnodiging voor een vaccinatie tegen meningokokkenziekte. Volgend jaar hoopt het RIVM nog eens 860 duizend jongeren in te enten tegen deze ziekte.

Maarten Keulemans 10 september 2018, 15:52

Is zo'n vaccin niet vooral voordelig voor de industrie?

Zoek naar informatie over het meningokokkenvaccin, en de kritische beschouwingen van de Stichting Vaccinvrij en de Nederlandse Vereniging Kritisch Prikkelen duiken op boven in de zoekresultaten. Het nieuwe vaccin zou erdoorheen zijn gerommeld door de industrie, bijwerkingen kunnen geven en nauwelijks werken. In hoeverre kloppen die claims?
NONCOMMUNICABLE DISEASES (NCDs) AND MENTAL HEALTH: CHALLENGES AND SOLUTIONS

**THE THREAT**
- Cardiovascular diseases
- Chronic respiratory diseases
- Cancer
- Diabetes
- Mental health conditions

**Key Facts**
- NCDs are responsible for 71% of all deaths worldwide (15 million people die each year from NCDs).
- Poorer people are disproportionately affected by NCDs and mental health conditions.
- Every 2 seconds, someone aged 30 to 70 years dies prematurely from NCDs.

**5 main NCD risks**
- Unhealthy diet
- Tobacco use
- Air pollution
- Unsafe sexual health
- Physical inactivity

**THE BENEFITS**
- Invest for a healthy future
- Cost-effective, life-saving interventions to protect people exist

**WHAT GOVERNMENTS CAN DO TO PROMOTE HEALTH**
- Advance universal health coverage
- Access to quality services
- Access to affordable services
- Immunization
- Physical activity
- Tobacco use

**WHAT PEOPLE CAN DO TO PROTECT HEALTH**
- Follow medical advice
- Stay physically active
- Get vaccinated
- Breastfed
- Avoid harmful use of alcohol
- Eat healthy diets
- Make healthy risks clear
- Avoid air pollution

**WHAT INTERVENTIONS CAN SAVE 8.2 million lives in poorer countries and generate US$350 billion in economic growth by 2030**

**Call to action**
- Greater action is needed to:
  - Protect people from NCDs
  - Achieve SDGs
  - Promote human rights

**Progress on NCDs is too slow**

**Every US$1 invested to tackle NCDs will have a return of at least US$7 by 2030**

www.who.int/beat-ncds
WHAT GOVERNMENTS CAN DO to protect their citizens from heart and lung diseases, stroke, cancer and diabetes, promote mental health and wellbeing?

Implement policies, engage the public

Ensure healthy diets
Make health risks clear
Leverage taxes
Inform the public
Tighten laws and regulations
Generate data for health
Create healthy cities and environments
Reduce stigma

ENSCHENDE FIETSSTAD 2020

ROC Twente
Human Avatars to Prevent and Cure Disease

genomic/omic  advanced imaging  organs on chip  implantables  wearables  env. sensors
A health scientist of the University of Twente has a focus on improving the quality of (health)care in terms of efficiency and effectiveness.
ROLE HEALTH SCIENTIST

- Patient and caretaker level
- Healthcare organization
- Healthcare system & society
ROLE HEALTH SCIENTIST

The health scientist possesses the ability to evaluate and define the value of technology within healthcare from a multi-disciplinary perspective and to advise relevant stakeholders with the implementation of (medical) technologies.
A health technology is the application of organized knowledge and skills in the form of devices, medicines, vaccines, procedures and systems developed to solve a health problem and improve quality of lives.
Do you want to play a role in prevention?
Do you want to improve the quality of the care process?
Do you want to be able to inspire other people and follow you with Healthcare innovations?
Do you want to contribute to reform the Healthcare system?
Will you successfully guide technological innovations in healthcare?
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2. MASTER STUDENT
YUNUS DENIZ
2. SPECIALIZATION
PERSONALIZED MONITORING & COACHING
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EHEALTH DEVELOPMENT

MONITORING & PERSUASIVE COACHING

TELEMEDICINE & DATA ANALYSIS FOR MONITORING
3. SPECIALIZATION

OPTIMIZATION OF HEALTHCARE PROCESSES
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FINANCE & HEALTHCARE PURCHASING

OPTIMIZING HEALTHCARE PROCESSES

QUALITY MANAGEMENT IN HEALTHCARE
4. PROFESSIONAL

EVITA BARTELS
BACKGROUND

2008 - 2014
Pre-University Education
VWO

2014 - 2017
Bachelor Health Sciences
University of Twente

2017 - 2018
Master Health Sciences
University of Twente

2018 →
Junior researcher
University of Twente
5. SPECIALIZATION
INNOVATION IN PUBLIC HEALTH
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INNOVATION IN PUBLIC HEALTH

This track is about public healthcare and how it can be improved.

Public health focuses on health at various levels:

- Populations at risk
- Communities
- Health differences in developing countries
- Health at a global scale
EXAMPLES OF MASTER ASSIGNMENTS

- Thesis: Health Technology Assessment of an improved method for the diagnosis of colon cancer
- Early health technology assessment of a point-of-care analyzer to improve the diagnosis of diabetes
- Patient satisfaction on the ZGT fast track poli ‘chest pain’
- E-health in early cardiac rehabilitation: Development and evaluation of an online exercise program for patients who underwent cardiac surgery
- Effect of guidelines and decision trees on the care plan determined in the multidisciplinary team meetings.
MEDISCH SPECTRUM TWENTE
Optimization of the discharge process of patients
De portemonnee leeg, maar wel een blij kind

75% %

50% %

75% Kort Nederlandse spraak

50% Kort Nederlandse spraak

De armoedegebreide gezinnen waarmee financiële problemen spelen, zijn ook spanningen in huis. Kinderen zijn hier de dupe van. In zes Twentse gemeenten beginnen dure gespreksregemen voor ouders. "We laten elkaar om de huidige situatie met elkaar praten.

Geen bloemen maar gelukkiger voor oma

Wij geven ook een visite aan de scholen waar kinderen getrapt worden. Wie een kind verwacht, weet dat een kind enkele jaren geleden te maken had met een moeder als gedwongen stemeinstrument. En sommigen zijn te maken met een moeder die de gevolgen van de dood laat zien. En sommigen zijn te maken met een moeder die de gevolgen van de dood laat zien.

Zeker in deze tijd, nu van indertijd, moeite van volledig met eigenhand.
CURRENT JOB
JUNIOR RESEARCHER – HEALTH TECHNOLOGY AND SERVICES RESEARCH

- Study coordinator
  - Multiple Sclerosis
  - Patient preferences

- Teaching assistant
  - Stakeholder preference elicitation and decision support (SPECS)
  - Clinical scientific research
ORGANIZATIONS WHERE OUR GRADUATES NOW WORK
CAREER PROSPECTS

- Project manager (32%)
- Research / PhD (18%)
- Consultant (17%)
- Health care position unrelated to HS (9%)
- Data-application / Data-analyst (7%)
- Staff management / Policy maker (6%)
- Other / unknown (6%)
- Position in health care insurance company (5%)
AFTER YOUR MASTER’S

- Get a job in industry or government
- Follow a PhD programme
- Follow a PDEng programme
- Start a business with Novel-T
Erik Buursink

Education: Bachelor & Master Health Sciences
Position: IT Consultant
Organization: PinkRoccade Healthcare Ziekenhuizen
Location: Apeldoorn

"My assignment consists of facilitating eHealth initiatives and supporting mobile application requests. Something that fits perfectly with my study background."
Emma van Geel

Education: Bachelor & Master Health Sciences
Position: Quality Engineer
Organization: Demcon
Location: Enschede

“This master takes many aspects of healthcare into account. As a result, I have developed a very unique view of the healthcare process.”
Anne Morssink

Education  Bachelor & Master Health Sciences
Position   Trainee beleidsadviseur
Organization Bevolkingsonderzoek Oost
Location   Deventer

“At Bevolkingsonderzoek Oost I am currently mapping participation in the cervical cancer population survey to see which variables influence attendance.”
Jooske Wilgenhof

Education
Projectmedewerker Zorgadvies en Cliëntadministratie

Position
Trainee beleidsadviseur

Organization
Thuiszorgorganisatie Carinova

Location
Deventer

“Thanks to the knowledge I have gained in both the bachelor and master Health Sciences, I am able to optimize the home care processes together with all stakeholders involved, both in terms of content and administration.”
Admission to the program M - Health Sciences:

Main areas of focus:

- Biomedical & (Clinical) Epidemiology
- Systems & Organisations in Care
- Financial and Economical topics
- Research in Healthcare

Coming from another Research University:

Depending on your previous education / Bsc diploma and taking the main areas of focus in account, a 15 EC or 30 EC premaster might be necessary.

Coming from a University of Applied Science:

At least a premaster of 30 EC, depending on your previous education, it might be 45 or 60 EC.
HIGH TECH
HUMAN TOUCH

HEALTH SCIENCES
@ UNIVERSITY TWENTE

YOU DESIGN THE FUTURE OF HEALTHCARE
6. QUESTIONS?