



Patient-driven research in Nutrition innovative tools and strategies for (self-)assessment

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This presentation

- 1. My Background
- 2. The Challenge
- 3. The Solution





The challenge

Conventional Feedback vacuum

 Much of the good work of dieticians and nutritional therapists and also researchers remains hidden because of a lack of appropriate measurement and follow-up of the outcome.

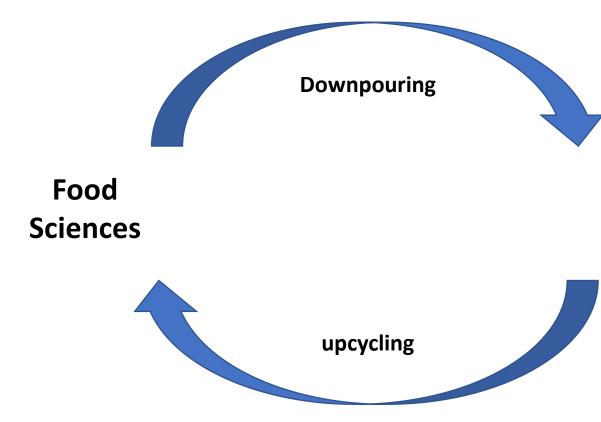
Innovation Feedback Vacuum

 At the same time, much of the own efforts and observations of patients in need of dietary advice or special food strategies remains underused.

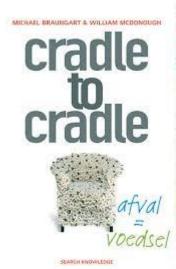




Circular Nutrition



Everyday Food Practice







Medical /

Nutritional

Knowledge

System

Similar trends

Agricultural Knowledge System

Spatial Planning System

Tend to look for and to impose generic rules and solutions

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Very much 20th century





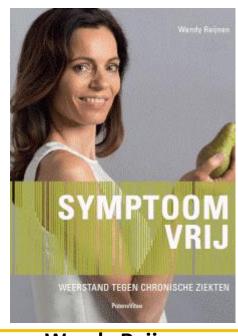






Patients are gateways to innovative health products & nutrition therapies







Samantha Schut Mother of son with Cystic Fibrosis

Brew of turmeric, black pepper and apple sauce
Son regains appetite, weight and overall health

Wendy Reijen Multiple Sclerosis

bioresonance, mesology, kinesiology, exclusion diets, food supplements After years of struggles she is medication free and free of symptoms

Loes Visser Asthma and severe sinusitis

Anti-inflammatory foods and Keltic Sea salt Got rid of medication altogether





Striking a balance

Citizen/Patient

things at the same time in a complex life

Researcher:

change nothing but one thing, very structured

CHAOS

CAGE





The solution

Co-operative Citizen Science

Examples

Food basket for Prostate Cancer Single Subject Studies

MyOwnResearch in bowl + fatigue





Food Basket for Prostate Cancer

- Unique blend of professional expert knowledge and experienced based knowledge
- RCT-trial including 250 men
- QoL and serum concentrations of specific carotenoids
- Start sept 2018















Single Subject Studies

Enhanced self monitoring by clients





Ecological momentary assessment (EMA) / experience sampling

Repeated assessment 'on the spot' in 'real life'



"...examining ongoing experience as it occurs in the ebb and flow of everyday life" (Reis & Gable, 2000, p. 190)

"..capturing life as it is lived" (Bolger et al., 2003, p. 579)

Credits: Jan Houtveen





How does this work?

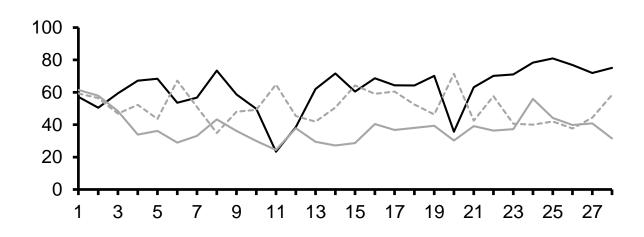


- Personalised Ecological Momentary Assessment
- 4-5 measurements / day
- 4-5 short <u>personalised</u> questions
- Before, during and (if desired) after the (dietary) intervention
- N=1 statistics on the data-cloud, allowing for hard evidence on the effectiveness of the intervention





Looking at the whole movie





Credits: Jan Houtveen





Added value



Relevant for patients

 It provides you with immediate feedback if 'something' (the intervention) has worked for you or not

Relevant for therapists / researchers

- Greater possibilities to follow and guide your client
- Gives you a good insight in the effectiveness of your approach
- It enables you to show evidence of your approach to sceptics
- If done together with collegue-dietitians, you contribute to evidence-building for the whole professional branche

MyOwnResearch

Homogeneous subgroup identification in fatigue management across chronic immune diseases through single subject research design.



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The MyOwnResearch Consortium

Scientific lead

Value-for-patients lead













Total Budget: 2,6 million Euro September 2018 –August 2021













MyOwnResearch

Homogeneous subgroup identification in fatigue management across chronic immune diseases through single subject research design.

1

- Single Subject Design Study
- Research couple: Patient-researcher and Physician (GP)
- 500-1000 participants
- Self monitoring through EMA-app in a treatment context
- Microbiome analysis, blood analysis
- Intervention with probiotics, DJ Repair or pers m therapy



2

Pattern analysis biostatistics op at aggregated level, subgroup typing

Randomised doubleblind research to confirm findings in subgroup























A growing interest



BeyondRCT-2 Towards Co-operative Citizen Science in Food and Health

International Conference
Amsterdam, 25-26 September 2018

www.BeyondRCT.net

2018

keypartners



















sponsors

















Take away messages

- Patients / citizens are crucial knowledge partners
- There are research methods available to conduct n-of-one research
- There is a tool available to monitor the effectiveness of a nutritional intervention
- There is a growing movement developing cooperative citizen science – be part of it!

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