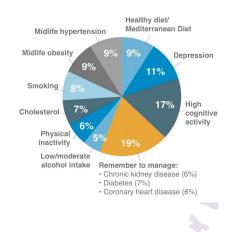


### "LIfestyle for BRAin health" (LIBRA) = foundation

- Systematic literature review + Delphi expert study (2013)
- Developed to quantify an individual's "room for improvement"
- 12 modifiable risk and protective factors which can be targeted by lifestyle intervention and primary prevention strategies
- Extensively validated in different cohorts and against different outcomes
  - Higher risk for cognitive decline and dementia, more brain atrophy, more white matter damage, a higher brain age and worse brain connectivity





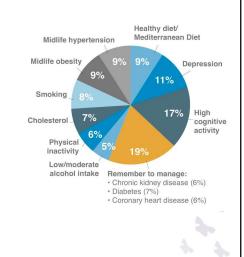




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### LIBRA index

- Sensitive to change in multi-domain intervention studies (e.g. FINGER)
- Implemented as secondary outcome in intervention studies and in public health campaign and mHealth tools to raise awareness and inform individuals about their prevention potential
- Update 2023: hearing problems, sleep and social interactions

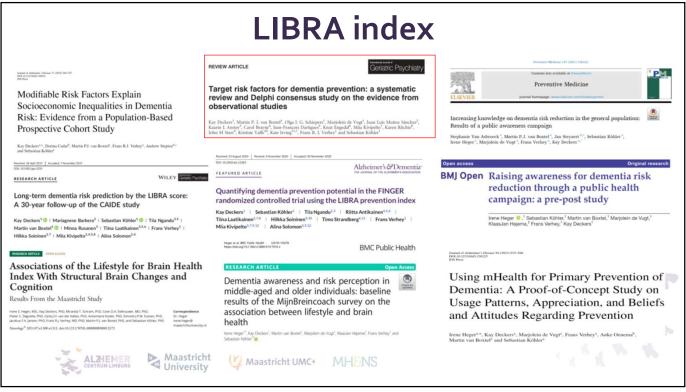






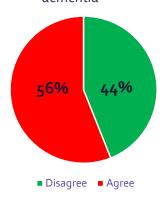


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## **Public demand**

"There is nothing I can do to reduce my risk of getting dementia"



- >70% eager to learn more
- Largest barrier: lack of knowledge
- >80% would like to us a brain health app
- Knowledge gaps 

  cardiovascular risk
  factors

Dit is een campagne van Alzheimer Centrum Limburg i.s.m. vele partners.

Heger et al., 2019; BMC Public Health



5

## Time for action!











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### Awareness campaign "We are the medicine ourselves"

- March 2018 January 2019
- Goal: increase awareness relation lifestyle and dementia risk/brain health
- Target group: all inhabitants from the Province of Limburg between 40 and 75 years















7

## Three brain-healthy lifestyle advices

- Stay curious (hobby, learning, social life)
- <u>Eat healthy</u> (fruits, vegetables, fish, olive oil)























## Message + material check

- Aardbeien verkleinen kans op dementie Verkleinen aardbeien de kans op dementie?
- Patient panel Alzheimer Center Limburg
  - People with dementia
  - Caregivers
  - Stakeholders
- Adaptation of materials





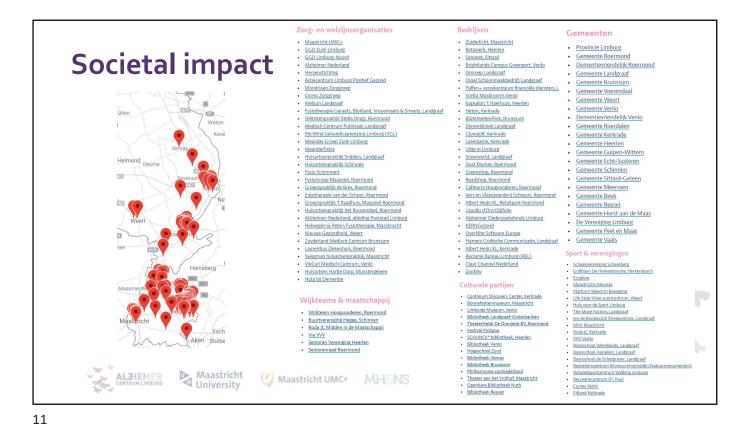






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## **Examples of campaign activities**













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# **Examples of campaign activities**





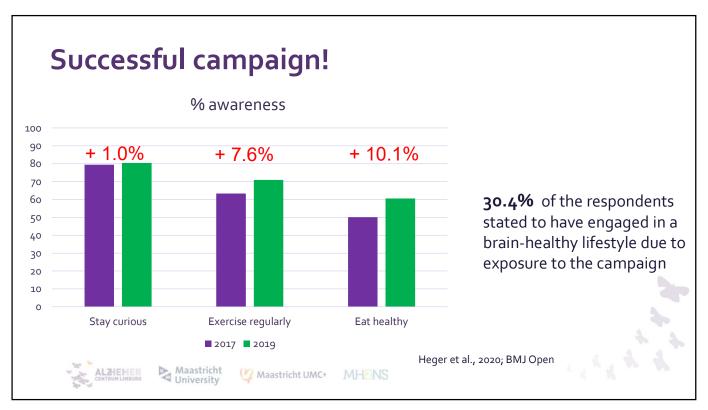














**Booster campaign in 2024** 

#### More inclusive/diverse:

- Low socioeconomic status
- Low health literacy
- Migration background
- Focus groups/co-creation sessions









2021-2030











#### **Observational + intervention studies**

Maastricht Ageing Study (MAAS): 25-year FU (N=1823)



The Maastricht Study (N=9188)



FINGER-NL trial (N=1210; part of WW-FINGER network) Afingernl



PRIMA-Brain trial (N=188)  $\rightarrow$  discussing modifiable dementia risk profile in primary care seems feasible!











17

#### **Research line Risk and Prevention**























Stephanie Van Asbroeck



Lukas Duffner PhD-candidate









PhD-candidate













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