Healthy dietary habits - how to promote positive changes?

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- •10-15% of all years of lifes lost in Europe are due to unhealthy diet
- About 30% of all death due to cardiovascular disease could be prevented through healthier diet

The effect of dietary changes in controlled clinical trials



Saturated fat: Oslo Diet-Heart study: 25%

reduction in trombosis



Fish: Dart study:

29% reduction i mortality

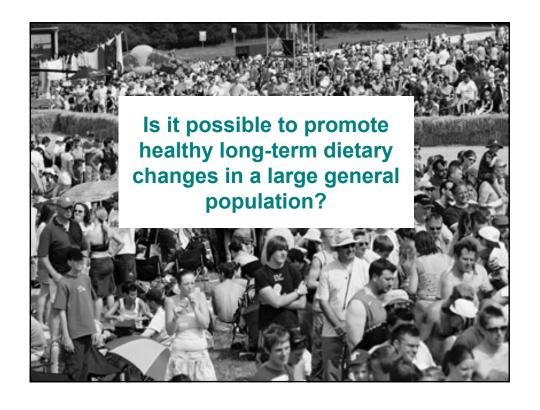


Mediterranean

Diet: Lyon Diet Heart Study:

70% reduction i mortality

Individualbased dietary counselling to promote healthier dietary habits



The Inter99 study

A large randomised life-style intervention study for prevention of ischaemic heart disease in the general population

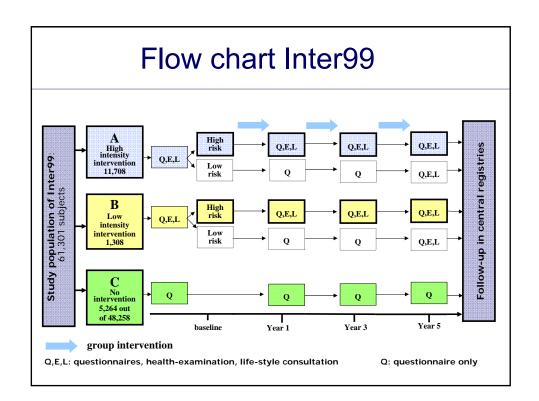






www.fcfs.dk

Toft et al: Prev Med. 2008 Oct;47(4):378-83

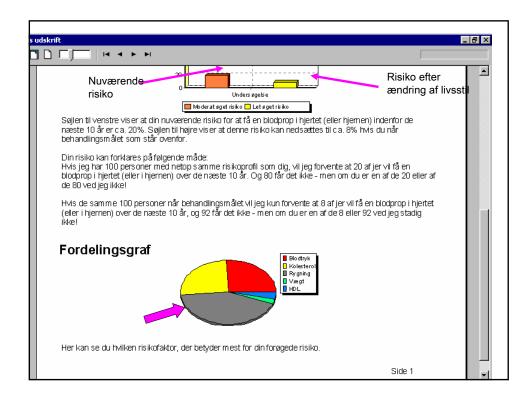


Individual lifestyle counselling



"Motivational Interviewing"

"Health Belief Model", "Social Cognitive Theory", "Transtheoretical Model"



Diet- and exercise counselling groups

- 15-20 participants
- 6 meetings
- 4-6 months
- Education
- Personal goals
- Family members

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Methods and analyses

Dietary goals

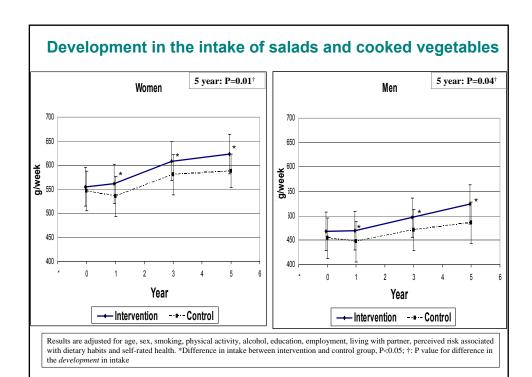


Measurement

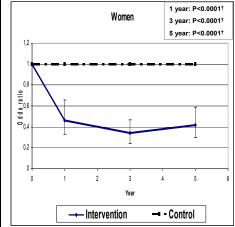
48-item food frequency questionnaire

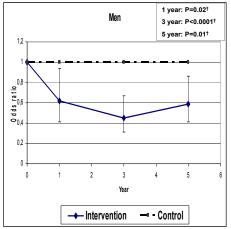
Analyses

Multi-level, longitudinal regression analyses with random effects

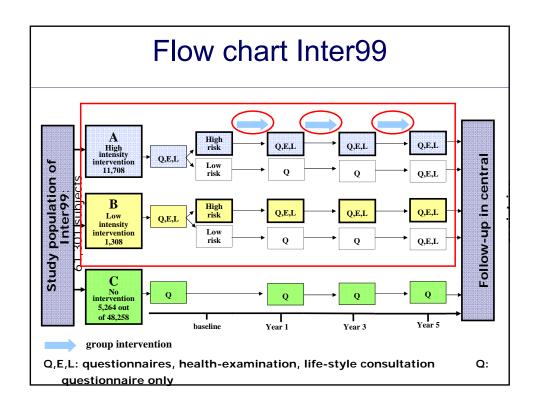


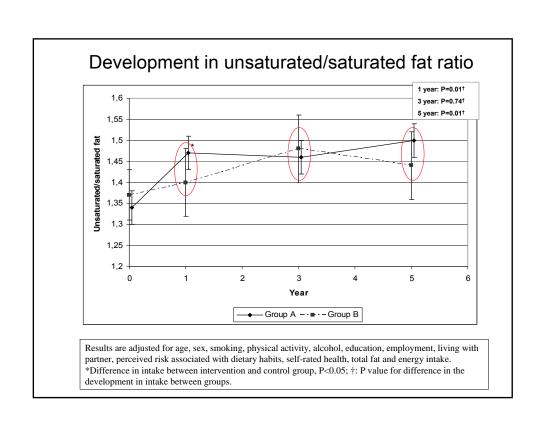
Odds ratio for using saturated fats on bread and for cooking

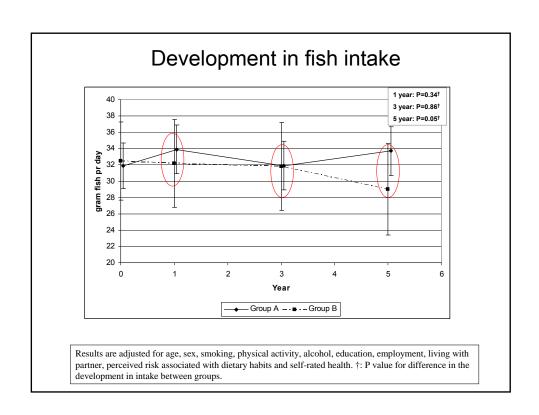




Results are adjusted for age, sex, smoking, physical activity, alcohol, education, employment, living with partner, perceived risk associated with dietary habits and self-rated health. †: P value for difference in the development in intake









The overall evidence

- Good evidence that individual counselling can promote moderate positive changes in the dietary intake of individuals with a high risk of disease.
- The long term effect is unclear.

The effect of multi-factorial lifestyle intervention on CVD mortality

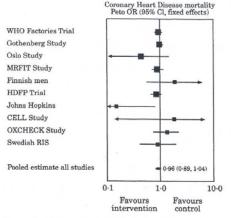
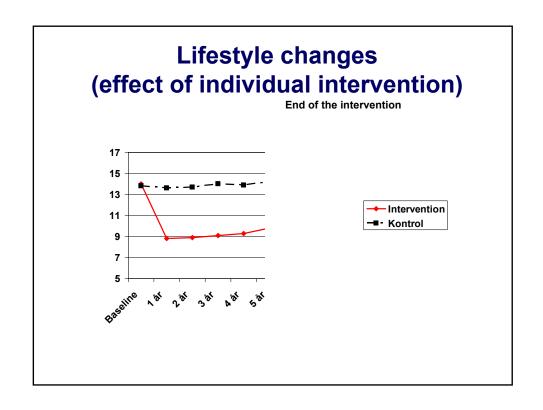
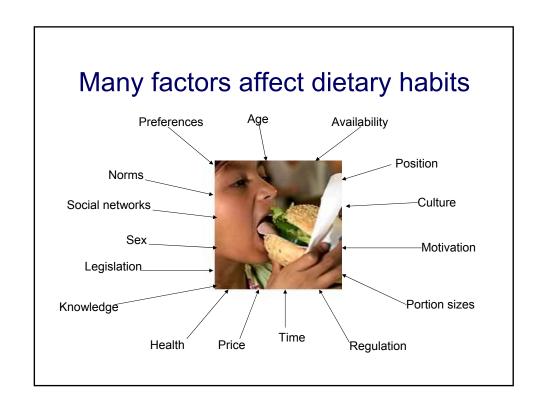


Figure 3 Meta-analysis of trials of multiple risk factor interventions: coronary heart disease mortality. Abbreviations, see Fig. 2 legend.

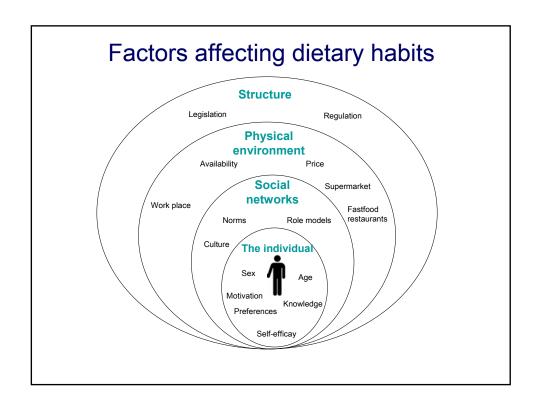
S Ebrahim (systematisk cochrane review)





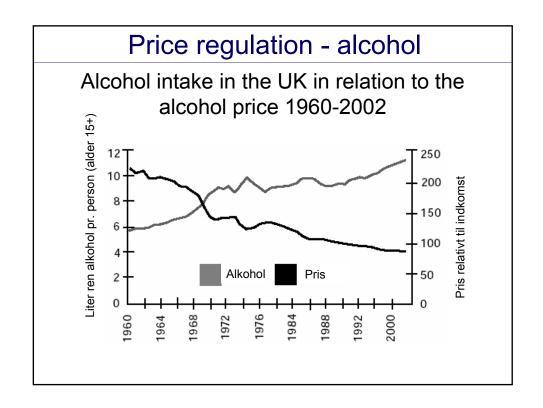
Factors affecting dietary habits





Availability - canteens

- ↑ Fruits og salads + ↓price:
 Sale increased with a factor 3
- Moving unhealthy snacks:
 13-15% reduction in sale
- ↓ Fat in the canteen food:
 ↓ Fat intake by 6-12 energy percent



Price regulations - Milk

- 1983:
 - Price:
 - Whole milk: ↑25%
 Semi-skimmed milk: ↑10%
 - Skimmed milk: ↑5%
- 1984:
 - Sale
 - Whole milk: ↓25%
 Semi-skimmed milk: ↑27%
 - Skimmet milk: ↑18%



Ottawa charter 1986

Make the healthier choice the easier choice

2011: Is the unhealthier choice the easier choice?

Portion sizes

• A strong predictor of energy intake

The sugar intake factor three

-Children and adoles candy and 140 liter per year

– Sugary sodas: from 2 liters often

-Candy bags: 50 g to



Standard meal at a fast food restaurant

-1985: 625 kcal -2005: 1450 kcal



Salt

- Salt intake in Denmark: 10-11/8-9 g in men/women
- WHO recommends <5 g
- ↓3 g salt: ↓14% stroke=1600 strokes per year saved
- 70% of the salt intake comes from processed foods
- Canteen meals: 3.4 g salt/meal or 14.6 g/10 MJ (Rasmussen et al, 2010)
- Ex. 1 pizza with meat/fish: 11.3 g salt

Is it a free choice to eat a healthy lunch?



Or to buy healthy foods?



"Default"

- The computer world
 - Defaults: settings that most people would choose anyway. Makes optimal use possible without a great effort from the user
- Sundhed
 - Simplify the choices of the individuals, so that most people choose the product they would have chosen if they had the time to think.

"Defaults" 2011

- Big bottles, bags and boxes
 - We buy more
- Availability
 - Food, snacks and drinks at any time
- Advertisment
 - The more unhealthy the more advertisment
- The location of foods in the supermarket
 - Affect our choices
- Result:
 - We have to fight against an unhealthy "default"
 - Most of our choices are not rational, conscious choices

Conclusion

To promote healthier dietary habits: A combined strategy:

- Make the healthy choice the easy and cheap choice
- Combined this with campaigns and individual counselling for high risk individual
- No strategy can do it alone

We need to change the "default" of dietary habits