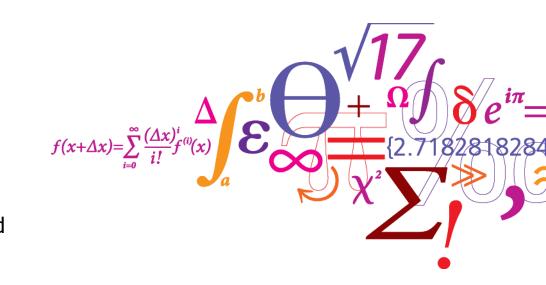


How to Assess the Diet Among Students at Danish Schools for Vocational Education?

Implications for the design of the study

Charlotte Lehmann
Academic Employee at DTU Food



DTU Food

National Food Institute



Spisvel

Aiming to increase the availability of healthier and more sustainable alternative to traditional fast food 'on the move'.

Divided into two work packages







Spisvel - Innovation

- Development of tasteful, healthier, and sustainable alternatives to current fast food
- The meals must meet the keyhole labelled criteria
- Collaboration with McDonald's, 7-eleven, gas stations among others















Fotos: Spisvel Folder



Spisvel – Impact Measurements in McDonald's

- Over 2000 participants completed a questionnaire survey
- Before, after, follow-up on introduction of keyhole labelled products
- Background data, position and preferences on fast food and intake, waste and price





Spisvel – Impact Measurements in Vocational College

- Social disparities exist in quality of food according to fx. education level^{1,2}
- It is difficult to approach the young short educated men¹
- School with canteen that was going to be keyhole certified and a control

Aim: Food behaviour and keyhole label

effect







^{1.} Groth et al. 2014

^{2.} Groth et al. 2001



Method

- Recipes
- Recruitment
- Emails (welcome and information)
- Lunch with registration
- Participant registration of food in WebDash (each evening)
- Possible reminder
- Online questionnaire survey
- Possible follow-up call
- Data extraction and connection

Generation of Data





Recruitment of Participants

- Flyer
- Poster
- Physical registration
- Contact persons on the schools
- Registration by phone or email
- Incitement, but no focus on health







Experiences and Problems - Recruitment

Pros

- Physical registration gave the best contact
- Phone number is essential to contact the participants

Cons

- Problems with deciphering of the handwriting
- Differences in involvement from the schools lead to different levels of effort to get participants
- Information of schema and presence at the measuring week was difficult to obtain

Navn	te EUC Nord – Frederikshavn		20.03.2014	
x Jannik	711. nr. 28144500	E-mail	Uddannelse	Fødselsdato
		Dunnile. J. H@hotmalle	on Bet	09 08 93
* Morten	92322336	Thim 1995 @gmail, con	n BCt	301295
X Emma	61 70 68 16	emmah egeborg@ hotmeila		020396
Tlexese	40727875	terese_th@hotmailcon	m HTX	230794
X Michael	1918607	In Fo. Clifesound@gmail.com		
× Sarah	42 43 64 59	saigh -ac Chotmail com		19 1092
X Matt Kings	119 50 5564 74	bhas the	HTX	12-07-95
* ANTON AND ers		brandmshd 965 agna	Le com smean	14-04-0
		SWAYG erBOYQLive.DK	Sibsmontor	10-10-97
	5+ 6137 2216	Fredrik alfibox@Hotmake	21 1	0.1041
* Dems Jusen	60435818	The I Die LO	an Submonter	281195
Mads Bering		Demis DKL@ Hotmail. Com	-11-	25/089
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21705926	mods. berings @gmailo	con HTX	110595
Milked Using Lyn	are 25 13 82 15 1	Milled. U. @ hotmail. Com		
Vikolaj MoTer	1401250121	11-1 - I FINALL COM	Eventtekn: ker	17-08-
0 / /	101230011	nikolajmeller@lie. Oskar-Kromann@	dk HTX	02-05
				1020)



Interaction Systems

- Standardised welcome mail Description of project and a declaration of consent
- WebDash Sending videos, password, user ID and reminders
- Online Survey customised link and reminder
- Reminds Email system from WebDash and survey, group and individual SMS, and a physical reminder





Experiences and Problems – Interaction systems

Pros:

- Physical reminder generates accountability
- SMS reminder gives communication at eye level
- Email is a good communication strategy, when information level is high

Cons:

- New designed program gave some unpredictability compromising the professional perception
- SMS communication on individual level is time consuming





Data collection

- 1. Students chooses lunch (within some limits)
- 2. Their food was registered and the received a sticker with ID on plate
- 3. Photography of plate with weight
- 4. Photography of waste with weight
- 5. Photography of empty plate with weight (control)

























Experience and Problems – Photo Data Collection

Pros:

• People were willing to return their waste

Cons:

- Aberration from normal patterns
- Line due to space and method limitations
- Attending the lunch each day





WebDash - Modifications

Developed to 9-11 year olds - Modified to fit adolescents

Potato salad with meatball



Open sandwich



Cake



Pasta salad



Potatoes



Sandwich





Experience and Problems – Madloggen

Pros

Photo based program – No weight

Cons

- No introduction Only online videos
- Forgetting to fill in
- Over or under registration due to
 - Forgetting
 - Wrong estimation

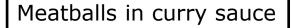






Data Extraction and Quality

The canteen: Rice









110g





The canteen: Meatballs in curry





130g

The canteen: Shredded carrots















Plate: ~600g

Food eaten: ~500g

Food registered: 280g



Experience and Problems – The Design

Pros

- The programs made it easy to participate
- Photo documentation made it possible to verify method
- Physical presence to gain mutual confidence
- Knowledge on how to approach the target group and on their food behaviour

Cons

- Drop-out rate
- Missing registration day and food level
- Missing introductory meeting
- Programs only worked on computer
- No pilot



Thank You for Your Time!





