



Computer Tailored Technology for eHealth Programs: An overview of Dutch RCTs

ISRII: Chicago May 17 2013

Hein de Vries Ph.D.

Professor in Health Communication Department of Health Promotion Caphri Research Institute Maastricht University The Netherlands Fam te Poel
Catherine Bolman
Daniela Schulz
Francine Schneider
Iman Elfeddali
Eline Smit
Ciska Hoving
Stef Kremers
Math Candell

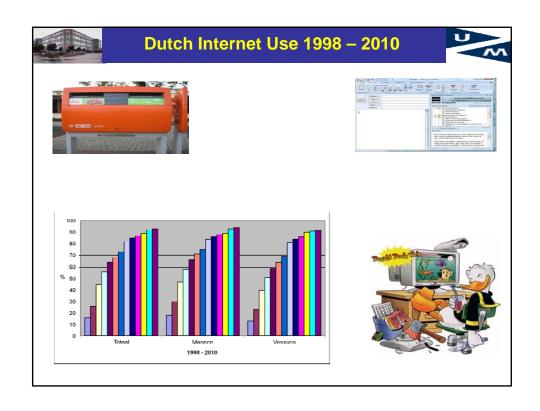


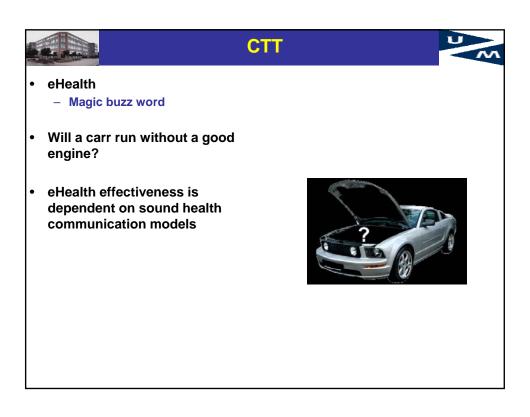
Since the 1980's



• The Internet Revolution









What is Computer Tailoring?



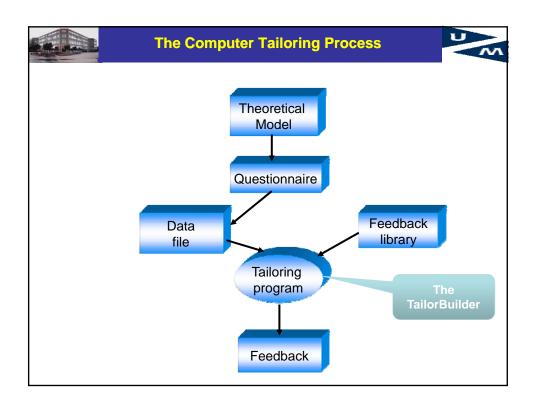
• Computer Tailored Technology

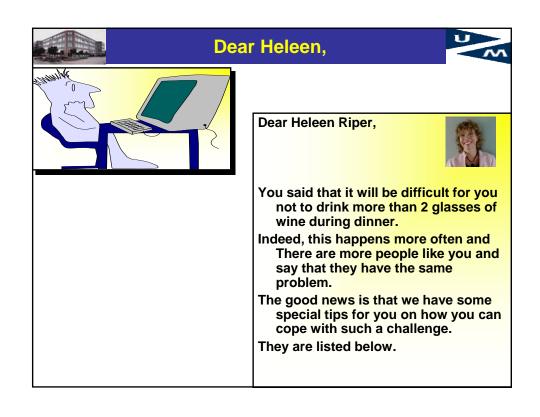
- Any combination of information and change strategies intended to reach one specific person
 - Theory driven
 - Based on characteristics that are unique to that person
 - · Feedback is based on an individual assessment

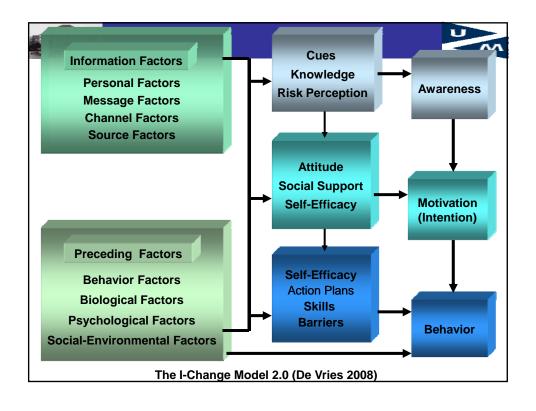
Computorized tailored information:

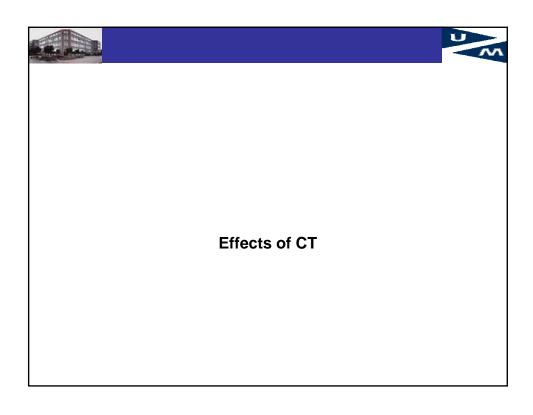
- Information adapted to the characteristics of the receiver
- All elements are relevant for the receiver
- Facilitates giving personally tailored advice to large populations
- Reaching large populations may be more cost-effective than individual approaches where counselor provides the health information

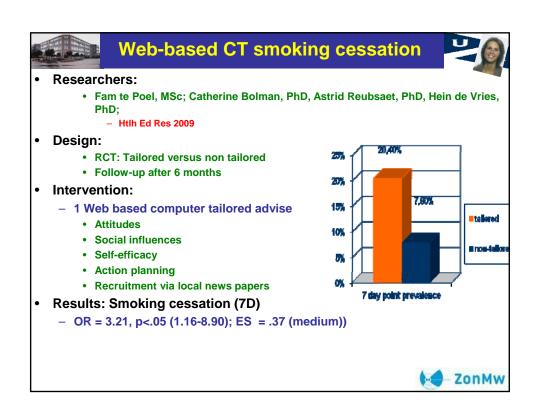


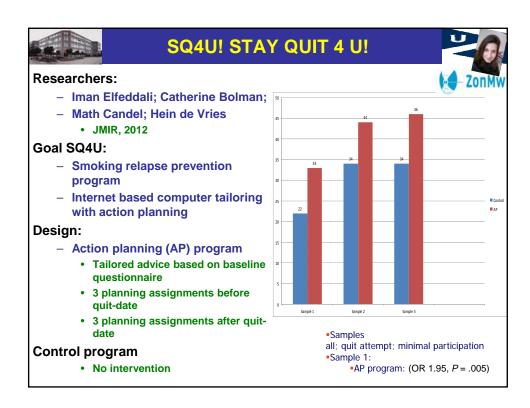


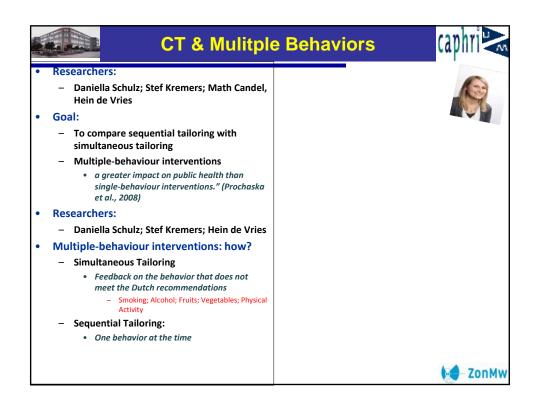


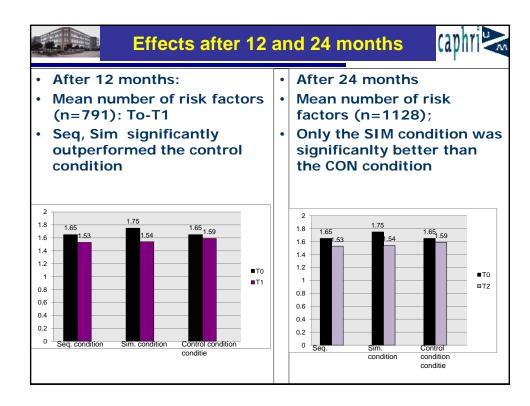






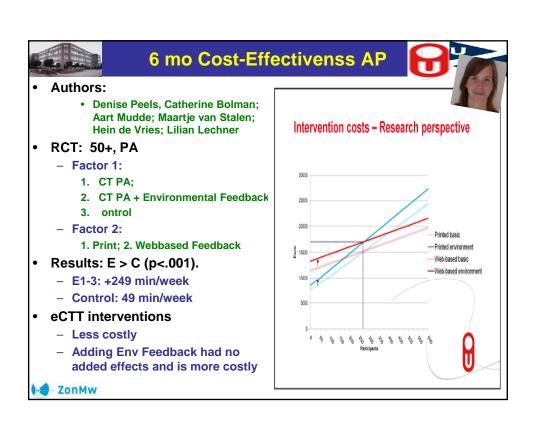


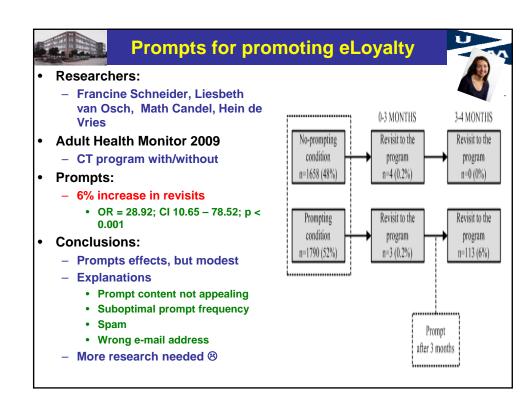


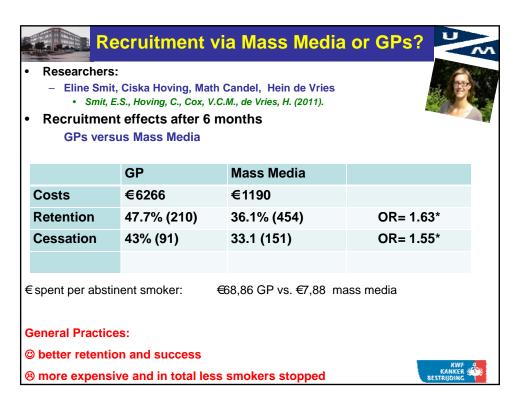


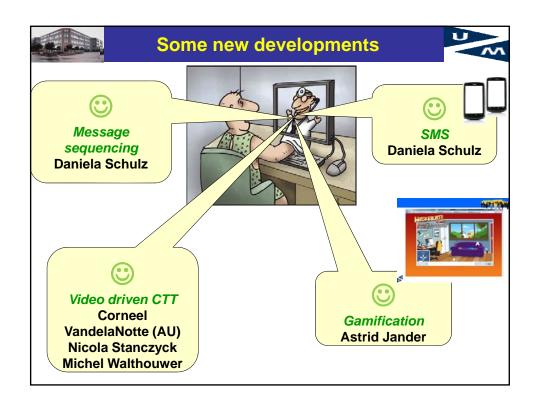


• Smit, Hoving, Candel, De Vries - JMIR, 2012 - Under review • Compared: - CT only on smoking cessation - CT + one counseling session with nurses - Usual care • Significant effects of CT • CT: more cost effective - Quality-Adjusted Life Year











Conclusions



- Computer tailoring (CT) methods have been shown to be successful 1,cost-effective 2 and no delay3
 - 1 Civljak, M, et al., 2010; Krebs et al., 2010; Shahab, L & McEwen, A, 2009;
 - 3 Keulen et al., 2010
 - 4 Hoving EF, 2007.
- Multiple behavior lifestyle: a challenge
- eHealth and eCTT & eLoyalty ⊗
 - New avenues need to be explored to assess eLoyalty:
 - Attrition rates are high
 - Revisits need to be stimulated
 - Tunnelling versus free choice (Crutzen et al., JMIR, 2012)
 - New methods for reaching people should be tested
 - the addition of more may not always be better
- Public Health Impact
 - eHealth certification
 - Organizations do not automatically adopt effective eHealth programs
 - Stakeholder involvement from the very beginning (Havelock, 1971)

	Thank you!
Smoking	Collaboration with other countries
Alcohol	
Nutrition	Portugal
Physical Activity	• Cyprus
Obesity prevention	Romania
Diabetis	 Germany
Hepatis C	• France
COPD & Asthma	 United States
Early detection of Cancer	Canada
Cancer risk detection	Brazil
Skin cancer prevention	
Cardiac rehabilitation	
Donor registration	EU eCTT
Aidspreventoin	hein.devries@maastrichtuniversity.nl