# EUROPEAN JOURNAL OF PUBLIC HEALTH

Volume 21 Supplement 1

www.eurpub.oxfordjournals.org

## SUPPLEMENT

## 4TH EUROPEAN PUBLIC HEALTH CONFERENCE

Public Health and Welfare – Welfare Development and Health

Copenhagen, 9–12 November 2011

Guest editors: Torben Jørgensen Finn Kamper-Jørgensen Dineke Zeegers Paget









## EUROPEAN JOURNAL OF PUBLIC HEALTH

Volume 21 Supplement 1

## **SUPPLEMENT 4TH EUROPEAN PUBLIC HEALTH CONFERENCE**

Public Health and Welfare - Welfare Development and Health

Copenhagen, 9-12 November 2011

ABSTRACT SUPPLEMENT

Guest editors: Torben Jørgensen, Finn Kamper-Jørgensen, Dineke Zeegers Paget

#### CONTENTS

- 1. Welcome: EUPHA and ASPHER
- 2. Welcome: Danish Society of Public Health
- 3. Detailed Scientific programme
- 4. Plenary presentations: abstracts
- 5. Parallel presentations: abstracts
- 6. List of authors











and to check whether the Belgian health policy succeeds in guaranteeing an equal distribution of healthcare among elderly persons with equal needs. Therefore we analysed the associations between GPs and specialists contacts, and SES (household income, highest level of education within the household, and housing tenure).

#### Methods

In this cross-sectional study based on 4494 elderly participants ( $\geq$  65 years) in the Belgian Health Interview Surveys of 2001 and 2004, socioeconomic gradients in contacts (yes or no) with a GP or specialist were explored using multiple logistic regressions, based on the socio-behavioural model of Andersen.

#### Results

After adjustment for age and sex, the elderly with a household income in the categories €750–1000 and €1000–1500 are more likely to contact a GP than those with the highest income (OR 2.16, 95% CI 1.19–3.93 and OR 1.91, 95% CI 1.11–3.31, respectively). Those without a degree or with primary education as the highest educational level are more likely to contact a GP than others (OR 1.77, 95% CI 1.12–2.80). After adjustment for age and sex, tenants are more likely to contact a specialist than home-owners (OR 1.42, 95% CI 1.02–1.98). After adjustment for age, sex, health status (self-assessed health, functional restrictions, and comorbidity), region, and living situation, no more differences remain in contacts with a GP and specialist between the SES groups.

#### Conclusions

Successive adjustment for the determinants of healthcare utilisation among the Belgian elderly nullified the socioeconomic gradients in contacts with a GP and specialist that initially existed. The initial gradient in having a contact with a GP and specialist or not can be explained by differences in the health status of the respondents. The Belgian healthcare system seems to effectively minimise socioeconomic inequalities contacts with a GP and specialist among a the elderly population with high healthcare needs.

### Patient preferences in patient education for patients with type 2 diabetes

Ingrid Willaing

*I Willaing*<sup>1</sup>, *M Schiøtz*<sup>1</sup>, *M Bøgelund*<sup>2</sup>, *TP Almdal*<sup>3</sup>, *BB Jensen*<sup>1</sup> <sup>1</sup>Steno Health Promotion Center, Steno Diabetes Center, Gentofte, Denmark

<sup>2</sup>Incentive Partners, Holte, Denmark

<sup>3</sup>Steno Patient Care Clinic, Steno Diabetes Center, Gentofte, Denmark. Contact details: iwtp@steno.dk

#### Background

Little is known about patient preferences for diabetes patient education. The objectives of this study were to determine the preferences of patients with type 2 diabetes for format and contents of patient education. Patients were asked to value information, participation and competence development, involvement of social network, and group based versus individual education.

#### Methods

A questionnaire including sociodemographics, BMI, selfmanagement behaviors and HbA1c-level as well as choice games concerning patients' preferences for patient education were sent autumn 2010 to patients from two different populations: 1) patients from a specialist diabetes clinic (n = 1081, response rate 54%) and 2), patients derived from a web panel consisting of a representative sample of the Danish population (n = 1461). In total N = 2542. Choice game answers were analyzed using the conditional logit model. Willingness to pay for the attribute levels was calculated by dividing the estimated coefficients,  $\beta$  for each attribute by the coefficient of payment. For deriving confidence intervals we used bootstrapping. Analyses were stratified in subgroups using a 5% level of significance.

#### Results

All included attributes were significant predictors of choice (p < 0.01) and all parameters had a positive value. Patients consistently valued acquiring competency in the included topics more than receiving information about them. Difference in valuation between becoming competent and acquiring information was large: willingness to pay was up to 92% higher for competency. Becoming able to adjust diet and exercise habits and to prevent complications were valued 35% and 46% higher than being informed about these topics. Patients were willing to pay €199 to be educated individually compared to education in a group of 12. The ranking of the attributes and levels were similar for subgroups. Women had a higher valuation of attributes. Patients with HbA1c < 7% exhibited higher willingness to pay for all attributes and levels.

#### Conclusions

Patients with type 2 diabetes significantly value participation in patient education, development of competencies for prevention of complications and support from the social network in disease management. Patients prefer an individually targeted approach.

#### Factors associated with adherence levels in kidney transplant recipients Lucia Prihodova

L Prihodova<sup>1</sup>, I Nagyova<sup>1,2</sup>, M Majernikova<sup>1,3</sup>, J Rosenberger<sup>1,3,4,5</sup>, J Roland<sup>3,4</sup>, JW Groothoff<sup>6</sup>, JP van Dijk<sup>1,6</sup>

<sup>1</sup>Graduate School Kosice Institute for Society and Health, Faculty of

Medicine, PJ Safarik University, Kosice, Slovak Republic

<sup>2</sup>Institute of Public Health – Dept. of Social Medicine, Faculty of Medicine, PJ Safarik University, Kosice, Slovak Republic

<sup>3</sup>Nephrology and Dialysis Center Fresenius, Kosice, Slovak Republic

<sup>4</sup>Transplantation Department, University Hospital L. Pasteur, Kosice, Slovak Republic

<sup>5</sup>1st Internal Clinic, Faculty of Medicine, PJ Safarik University, Kosice, Slovak Republic

<sup>6</sup>Department of Social Medicine, University Medical Center Groningen,

University of Groningen, Groningen, The Netherlands Contact details: luciaprihodova@gmail.com

#### Background

Adherence with medication is an inevitable part of treatment after kidney transplantation (KT) in order to keep a transplanted graft functioning well. In this study we focused on medical and psychological variables associated with different levels of adherence.

#### Methods

169 KT patients (64.5% male;  $49 \pm 11.5$  years) were split according to adherence, as rated by themselves and their physicians, into three groups: excellent (49.7%), good (43.2%) and average/bad (7.1%) adherence. The patients provided sociodemographic data, medical data (glomerular filtration, Davies' comorbidity index, number of late rejection episodes) and completed a side-effects symptom checklist (ESRD-SCL-TM) and questionnaires on psychological distress (GHQ-12) and social support (SSL). Binary and ordinal logistic regressions were used to identify factors associated with excellent, good and average/bad adherence.

#### Results

The excellent adherence group reported significantly less severe side effects (ESRD-SCL-TM). Younger  $(Exp(B) = 0.95^*;$ CI95%:0.91-0.99) female  $(Exp(B) = 0.28^{*}; CI95\%:0.09-0.85)$ patients with a history of late rejection  $(Exp(B) = 3.27^*;$ CI95%:1.00–10.72) and higher social support (Exp(B) =1.08\*; CI95%:1.02-1.15) were more likely to behave excellently in adherence over the past month and the model explained 41.1% of variance. Being male (Est = 0.99\*\*\*; CI95%:0.40-1.58) and divorced/widowed (Est = 1.23\*\*; CI95%:0.24-2.21) with fewer rejection episodes (Est=-0.73\*; CI95%:-1.37-0.09) post-transplantation and longer time  $(Est = 0.01^*;$ CI95%:0.00-0.02) increased the probability of belonging to the good or average/bad adherence group and the model explained 33% of the variance.

#### Conclusions

The factors associated with different levels of adherence need to be considered when planning an intervention program focused on an increase in adherence. This study offers a more detailed insight into adherence and considers different perspectives of the two key components in the prevention of poor adherence: the patient and the nephrologist. The differences between the adherence groups should be considered in clinical practice in order to prevent under evaluation or underreporting of poor adherence and most importantly, when planning an intervention program in order to ensure its efficiency.

#### Online learning tools in evidence-based practice: changes in skills across cultures Molly Ferguson

B Spring, MJ Ferguson, HG McFadden Northwestern University, Chicago IL USA Contact details: m-ferguson@northwestern.edu

#### Background

Commissioned in 2006 by National Institutes of Health, the interprofessional Evidence-Based Behavioral Practice (EBBP) project creates online learning resources to help bridge the gap between behavioral research and practice.

#### Objectives

Seven interactive learning modules that target trainees and practitioners are available free of charge at www.ebbp.org.

The site hosts 2,000–3,000 users per month from 128 countries, suggesting global interest in evidence-based practice training tools. Learners complete online pre and post-tests that assess knowledge, attitudes, and skills. In this abstract we discuss self-reported change in learner skills across modules. Learners rated skills statements using Likert scales (1 = not at all confident, 5 = very confident).

#### Results

Learners showed the following self-reported changes in skills from pre- to post-test: EBBP Process: 0.91 scale increase (F(1,1847) = 1536.72, p = .000); Searching for Evidence: 0.73 scale increase (F(1,455) = 218.74, p = .000); Introduction to Systematic Reviews: 1.15 scale increase (F(1,469) = 426.8, p = .000); Critical Appraisal: 0.84 scale increase (F(1,289) = 102.65, p = .000); RCTs: 0.77 scale increase (F(1,189) = 105.74, p = .000); Shared Decision-Making with Individual Clients: 0.76 scale increase (F(1,96) = 77.93, p = .000); Collaborative Decision-Making with Communities: 0.71 scale increase (F(1,58) = 21.12, p = .000).

#### Conclusions

All modules showed a significant increase in learner-reported skills. This indicates that improvement in self-reported skills in evidence-based practice can be achieved across cultures through online learning modules.

### 1.E. Workshop: REsearch into POlicy in Physical Activity - which theories and methods are applicable?

Chairs: Arja R Aro, Denmark and Nancy Edwards, Canada Organiser: REPOPA Consortium and EIRA Network Contact: araro@health.sdu.dk

The expression 'Research into Policy' signals the intention to help policymakers make evidence-informed decisions in policy development and implementation. Scientific research has produced abundant knowledge on the physical activity (PA) -health link, PA levels and trends, cost-effective interventions, and policies in many EU countries. Thus, there is knowledge and know-how about improving patterns of PA both from research and policy making. Challenges remain, however, in integrating this knowledge and know-how into policy making. Based on scientific literature and other documents, the evidence-base of many PA policies developed has not often been made explicit (research evidence and 'other kind of evidence' i.e. expert know-how, organizational culture and political pressures. Further, policies are mostly not crosssectoral although we know that multi-sector structures facilitate physical activity of individuals and groups. Still, evaluation of PA policies remains often at a generic level of combined groups and without concrete steps and indicators of implementation. Finally, accountability has mostly not been agreed upon. All this calls for: a) comprehensive crossdisciplinary frameworks for understanding how evidence can inform policy processes in PA; b) developing feasible and effective tools and indicators for PA policy implementation in different contexts; and, c) feasible evaluation frameworks. This roundtable takes up this challenge, discusses and debates the state of the art in the field. REPOPA consortium (REsearch into POlicy in Physical Activity) includes institutes from six EU countries and Canada, a leading country in knowledge integration development. EIRA (Evidence In Research and Action) is a global health promotion network. The workshop participants represent REPOPA, EIRA and European Community (EC).

Arja R Aro (DK): The main theories in guiding evidenceinformed policy development and evaluation.

Timo Stål (FI): Dissemination and translation of research on the policy for physical activity in Finland: good intentions need a proper implementation framework.

Ien van de Goor (NL): Collaborative decision making across sectors and organizations: can gaming simulation help?

Bonnie Spring (USA): Online Training for Evidence-Based Behavioral Practice (EBBP): Introduction and Evaluation Across Cultures

Comment: Kevin Mccarthy (EC): Public Health, DG Research&Innovation, Health Directorate: European Union Research facilitating knowledge transfer.

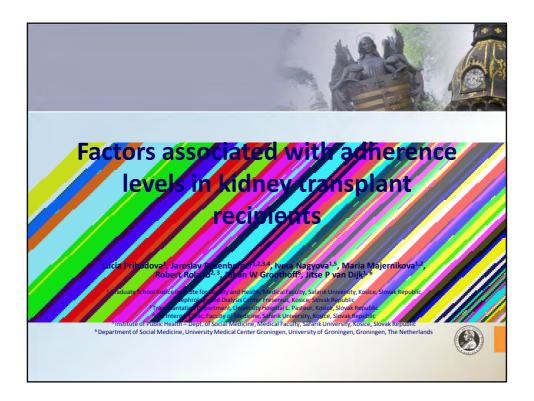
#### The main theories in guiding evidence-informed policy development and evaluation: towards a meta-framework Aria R. Aro

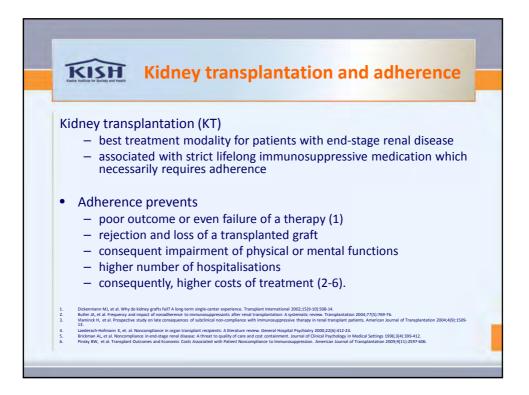
#### AR Aro<sup>1</sup>, N Edwards<sup>2</sup>

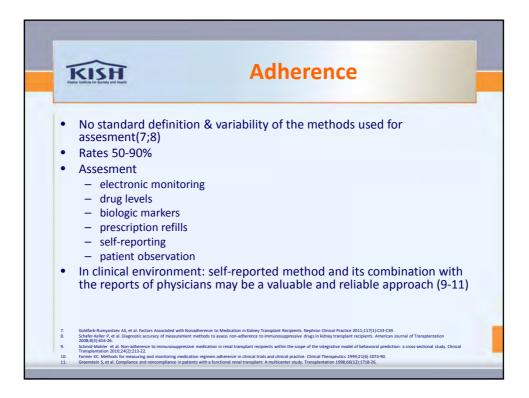
<sup>1</sup>University of Southern Denmark, Unit for Health Promotion Research, Esbjerg, Denmark

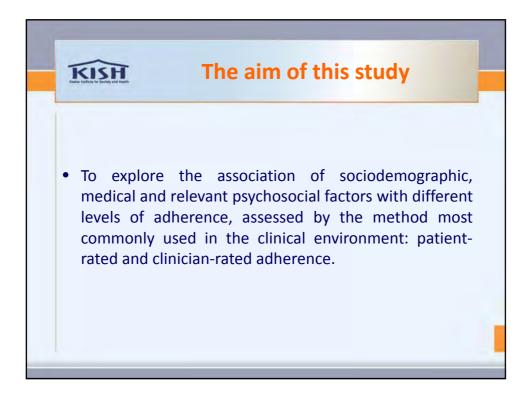
<sup>2</sup>University of Ottawa, School of Nursing and Department of Epidemiology and Community Medicine, Ottawa, Canada

Evidence-informed policy development consists of decision making processes by stakeholders from academia, community and political contexts. Reflecting this complexity, research on this theme has been scattered and split into separate disciplinary approaches. To enhance coherent, theory and evidence-informed policy development and evaluation, there is a need to integrate and develop theories, which can capture the complex policy development process in different contexts. The main theories used to study evidence-informed policy development and evaluation will be reviewed and debated, especially when applied in different cultural and country contexts and in

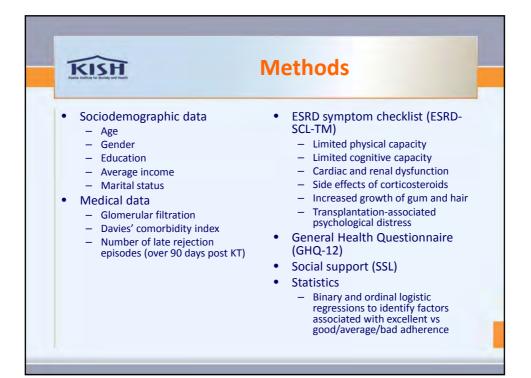








KISH	Methods		
<ul> <li>Sample</li> <li>Transplantation centre in Kosice, Slovakia</li> <li>Inclusion criteria: <ul> <li>a functioning graft,</li> <li>three months - seven years after transplantation,</li> <li>no psychiatric disease including severe dementia and mental retardation</li> <li>signed an informed consent form before the study</li> </ul> </li> <li>RR: 169 (78%).</li> <li>64.5% male; 49±11.5 years</li> </ul>	<ul> <li>Adherence         <ul> <li>Combined self and nephrologist's evaluation</li> <li>Defined as skipping a dose of change the timing of a dose</li> <li>Rate on a scale from 1 to 5 over the past month, where</li> <li>1 - patient did not break the prescribed regimen over the past month</li> <li>2 - once over the past month</li> <li>3 - 2-3 times over the past month</li> <li>4 - once per week over the past month</li> <li>5 - the patient breaks the prescribed regimen more tha 3 times a week</li> </ul> </li> </ul>		



Kosto Institute for Society and Health		<b>KISH</b> Results: Adherence levels						
			Patients evaluation					
			1	2	3			
			Excellent (no deviation from	Good (forgot or delayed	Average (forgot or delay			
			prescribed regimen over past month)	one dose over past month)	2-12 doses ove past month)			
			71.6%	27.2%	1.2%			
Nephrologists evaluation	1 Excellent			22				
	(no deviation from	62.7%	84 49.7%	13%	0			
	prescribed regimen over past month)							
	2							
	Good		35	16	0			
	(forgot or delayed one dose over past month)	30.2%	20.7%	9.5%				
	3 Average		2	8	2			
	(forgot or delayed 2-12	7.1%	1.2%	4.7%	1.2%			

