



FINAL PROGRAMME

8th International Conference on Diet and Activity Methods (ICDAM 8)

Theme: Methodological challenges for measuring achievements of international policies

Rome, Italy

Monday, May 14, 2012:

8:30 – 10:30

Registration and coffee

10:30–12:00

Plenary Hall: Opening of Conference

Chair: Barbara Burlingame

Principal Officer

Nutrition and Consumer Protection Division

Food and Agriculture Organization of the United Nations

Opening address

FAO Senior Official

P-1 Keynote address:

Boyd Swinburn

Professor of Population Nutrition and Global Health

University of Auckland, New Zealand

P-2 Keynote: Research and action to improve diets

Barrie Margetts Professor of Public Health Nutrition

Faculty of Medicine, University of Southampton,

United Kingdom

12:00–14:30

Lunch Break and poster session

14:30–16:00	Plenary Hall:		
	P-3 Keynote lecture: Social policies to encourage physical activity		
	Billie Giles-Corti. Director of the Centre for the Built Environment and Health at the School of Population Health, The University of Western Australia		
	P-4 Keynote lecture: Measurement error in nutritional epidemiology – in Memory of Arthur Schatzkin		
	Laurence Freedman Biostatistics Unit, Gertner Institute for Epidemiology and Health Policy Research, Tel Hashomer, Israel		
	P-5 Keynote lecture: Biomarkers and biomonitoring – In memory of Sheila Bingham		
	Tim Key, Deputy Director, Cancer Epidemiology Unit, University of Oxford		
16:00-16:30	<i>Coffee break</i>		
16:30-18:00	A-1 Assessment of food environments	B-1 Nutrition and food security analyses using household surveys	C-1 Evaluating Physical Activity Environments
	Chair: Jill Reedy	Chair/co-chair: John L. Fiedler and Carlo Cafiero	Chair: James Sallis
	Invited Speakers: Angela Liese	Invited speakers: Keith Lividini, Jennifer Coates and Dirce Marchioni	Invited Speaker: Marc Adams
	<u>Oral presentations:</u>	<u>Oral presentations:</u>	<u>Oral presentations:</u>
	Minaker et al. Assessing the construct validity of food environment measures: A multi-trait multi-method matrix approach	Pereira, Marchioni et al. The challenging inclusion of the first Brazilian individual dietary survey in the 2008-2009 Household Consumer Expenditures Survey	Bird et al. Assessment of neighbourhood park characteristics for physical activity among youth
	Kirkpatrick et al. Assessment of dietary outcomes in food environment research: A barrier to informing policy and programs to support healthy eating?	Moursi et al. How do household consumption and expenditure surveys compare to 24-hour recalls in terms of nutrient intakes? Evidence from Uganda and Mozambique	Frank et al. Objective assessment of obesogenic environments in youth: GIS methods to evaluate physical activity and food environments for the neighborhood impact on kids (NIK) study.
	Miller et al. Applying a diet quality index to assess the healthfulness of food balance sheets	Loopstra-Masters & Tarasuk. Assessing change in household food insecurity	Quigg et al. Natural experiments – an effective method for assessing built environment policy impact
	Snowdon et al. Assessing the food policy environment: Participatory approaches		
	Thornton et al. Food purchasing: How important is the local neighbourhood?		
18:00-20:00	Reception FAO Terrace		

Tuesday, May 15, 2012**Concurrent sessions**

9:00–10:30	<p>A-2 Dietary surveys and indicators for formulating policies Chair/co-chair: Aida Turrini/Barrie Margetts Invited speaker: Barrie Margetts</p> <p><u>Oral presentations:</u></p> <p>Judd et al. Dietary patterns associated with demographic and socioeconomic groups in the regards study Pot et al. Development of uk eating choices index Morris et al. Is a healthy diet the most expensive type of diet? using dietary data from the UK women's cohort study Burley et al. Comparability of dietary patterns derived from food frequency questionnaire and food diary approaches in the UK women's cohort study (UKWCS)</p>	<p>B-2 International dietary data harmonisation for monitoring and exposure assessment – synergies and challenges. Chair/co-chair: Liisa Valsta /Marga Ocke Invited speakers: Davide Arcella and Marga Ocke</p> <p><u>Oral presentations:</u></p> <p>Huybrechts et al. Train-the-trainers in conducting standardized 24-h dietary recall interviews in international study settings: report from a real study experience Illner et al. Feasibility of use and performance of a European food propensity questionnaire in the iDAMES project Bell et al. Delivering food information and other tools to support food and health professionals Johnson et al. Challenges in monitoring biomarkers of folate, vitamin d and sodium over time: the NHANES experience</p>	<p>C-2 Physical activity assessment in international surveillance systems Chair: Andrew Hills Invited Speaker: Adrian Bauman</p> <p><u>Oral presentations:</u></p> <p>Mcclain et al. Leveraging distributed sensor networks to develop a scalable system for behavioral health surveillance and health outcomes research Garriguet et al. Daily patterns of physical activity participation in Canadians Troiano et al. Objective measurement of physical activity, sleep, and strength in the US national health and nutrition examination survey 2011-2014 Roberts et al. Evaluation of weight management, diet and physical activity interventions: a standardised approach</p>
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10:30 – 11:00 *Coffee break*

11:00-12:30	<p>A-3 Assessment of dietary supplement intakes Chair: Regan Bailey Invited speaker: Regan Bailey</p> <p><u>Oral presentations:</u></p> <p>Parnell et al. Assessment of dietary supplement use in New Zealand: Methodology and regulatory challenges Verkaik-Kloosterman et al. A three-part, mixed effect model to estimate habitual total nutrient intake distributions from food and dietary supplements in Dutch young children Buurma et al. Dietary supplement use in the Netherlands Crispim et al. Pitfalls when accounting for supplement use in validation studies: experiences from the European Food Consumption Validation (EFCOVAL) study</p>	<p>B-3 Measurement error in nutritional epidemiology (in Memory of Arthur Schatzkin) Chair: Yikyung Park Invited Speakers: Victor Kipnis and Donna Spiegelman</p> <p><u>Oral presentations:</u></p> <p>Crispim et al. Variation of bias in protein and potassium intake collected with 24-h recalls across European populations using multilevel analysis Douglas et al. A bivariate measurement error model for an episodically-consumed dietary component and energy: application to nutritional epidemiology Börnhorst et al. Diet-obesity relationships in children: Approaches to handle implausible dietary records Dekker et al. Improving ethnic-specific Food Frequency Questionnaires by different qualitative approaches</p>	<p>C-3 New technologies for objective monitoring of physical activity Chair: Stephen Intille Invited Speaker: Stephen Intille</p> <p><u>Oral presentations:</u></p> <p>Bélanger et al. Up to half of steps performed is not measured by accelerometers in obese individuals Cain et al. Comparison of older and newer generations of ACTIGRAPH accelerometers with and without the low frequency extension Slinde et al. Validation of a multisensor armbands' capacity to estimate energy expenditure in overweight and obese lactating women using doubly labeled water Doherty et al. Making counts, count more? Using wearable cameras to contextualise accelerometer data</p>
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12:30–14:30 *Lunch and poster session*

14:30–16:00	<p>A-4 Dietary patterns: Methodological advances and new research directions</p> <p>Chair/co-chair: P.K. Newby, Jill Reedy Invited speaker: Carlos Monteiro</p> <p><u>Oral presentations:</u></p> <p>Reedy et al. A comparison of four diet quality indexes with all-cause and cause-specific mortality</p> <p>Miller et al. Dietary patterns and colorectal cancer incidence: a classification tree analysis</p> <p>Krebs-smith et al. Development and evaluation of the healthy eating index-2010</p> <p>Tognon et al. Applications and modifications of the Mediterranean diet index for a more precise estimate of the association with longevity and morbidity</p> <p>Lassale et al. Association between dietary scores and 13-y weight change and obesity risk in a french prospective cohort: comparison of their predictive value</p>	<p>B-4 Advanced statistical methods for objective monitor data</p> <p>Chair: John Staudenmayer</p> <p>invited Speaker: John Staudenmayer</p> <p><u>Oral presentations:</u></p> <p>Lyden et al. Validation of a Novel Method to Estimate METs from Free-Living Accelerometer Data: The Sojourn Method</p> <p>De Vries et al. Evaluation of neural networks to identify types of activity among children using accelerometers, global positioning systems and heart rate monitors</p> <p>Butte et al. How much energy do preschoolers really expend? Application of advance statistical methods to predict energy expenditure and physical activity levels in preschoolers</p>	<p>C-4 Assessment of physical activity in children and youth</p> <p>Chair: Jo Salmon</p> <p>Invited Speaker: Jo Salmon</p> <p><u>Oral presentations:</u></p> <p>Colley et al. Step count target to measure adherence to physical activity guidelines in children</p> <p>Garriguet et al. Comparing parent-report and directly measured physical activity, sedentary behaviour and sleep in Canadian children and their association with health</p> <p>Belcher et al. Self-reported versus objectively measured physical activity & cardiometabolic biomarkers among youth in NHANES</p> <p>Colley et al. The pattern and timing of sedentary behaviour are related to body mass index in boys but not girls</p>
16:00–16:30	<i>Coffee break</i>		
16:30-18:00	<p>A-5 Assessment of dietary patterns for health</p> <p>Chair: Catherine Champagne</p> <p><u>Oral presentations:</u></p> <p>Miller et al. The dietary approaches to stop hypertension (dash) diet index scores and colorectal cancer risk: a comparison of four approaches</p> <p>Möller et al. Mediterranean diet score and prostate cancer risk in Sweden</p> <p>Ashton et al. How well does a type 2 diabetes prevention index score (t2dpis), predict incidence of the disease in the u.k women’s cohort study?</p> <p>Kimokoti et al. Dietary patterns of women, abdominal obesity, and metabolic syndrome: the Framingham nutrition studies</p> <p>Letenneur et al. Association between diet and hip fracture risk: comparison between a priori (medi score) and a posteriori derived dietary patterns in elderly people.</p>	<p>B-5 Measurement and detection of food consumed outside the home</p> <p>Chair: Nelia Steyn</p> <p>Invited speaker: Nelia Steyn and Carlos Montiero</p> <p><u>Oral presentations:</u></p> <p>Buck et al. Does environmental food supply influence junk food consumption of preschool and school children? First results of the IDEFICS Study</p> <p>Gorgulho et al. Out-of-home eating prevalence in the city of São Paulo, Southeast Brazil</p> <p>Mak et al. Assessing eating context: new methods using diet diaries in the uk national diet and nutrition survey (2008-2010).</p> <p>Naska et al. The hector eating out questionnaire: a data collection tool to assess out of home dietary intakes</p>	<p>C-5 Assessment of Sedentary Behavior</p> <p>Chair: Neville Owen</p> <p>Invited speaker: Neville Owen</p> <p><u>Oral presentations:</u></p> <p>Chau et al. Measuring workers' sitting time by domain: The Workforce Sitting Questionnaire (WSQ)</p> <p>Csizmadi et al. The Sedentary Time and Activity Reporting Questionnaire (STAR-Q): A comprehensive tool to assess sedentariness and activity energy expenditure</p> <p>Hamilton et al. Measuring episodes of sedentary behaviour using SenseCam: a pilot study</p> <p>Timperio et al. Agreement between activPAL and ActiGraph for assessing children’s sedentary time</p>
<i>Optional banquet</i>			

9:00–10:30	<p>A-6 New technologies for dietary assessment</p> <p>Chair: Amy Subar</p> <p><u>Oral presentations:</u></p> <p>Delve et al. The impact of using calibrated utensils to assess portion sizes in infants aged 4-18 months</p> <p>Touvier et al. Comparison between an interactive web-based self-administered 24h dietary record and an interview by dietitian for large-scale epidemiological studies</p> <p>Timon et al. Validation of a novel method of dietary assessment in an older adult population: The NANA project</p> <p>Christensen et al. The validity of micronutrient intake in a web-based food frequency questionnaire: Meal-Q</p> <p>Subar et al. Adapting the US Automated Self-administered 24-hour dietary recall (ASA24) for use in multiple populations</p> <p>Illner et al. Evaluation of innovative technologies for measuring diet in epidemiological studies</p>	<p>B-6 Measuring dietary diversity</p> <p>Chair/co-chair: Marie Claude Dop, Joyce Luma</p> <p>Invited Speaker: Nelia Steyn and Mary Arimond</p> <p><u>Oral presentations:</u></p> <p>Moursi et al. Association between dietary diversity and child growth in rural Uganda and Mozambique</p> <p>Mathiassen et al. Household Food Consumption: looking beyond the score</p> <p>Büchner et al. Comparison of Diet Diversity Scores for fruit and vegetables and plasma carotenoids levels in the cross-sectional study of the European Prospective In</p> <p>Burke et al. U.S. trends in dietary variety and its association with BMI and micronutrient intakes among younger and older age groups</p>	<p>C-6 Characteristics and impacts of measurement error in physical activity data</p> <p>Chair: Sarah Nusser</p> <p>Invited Speaker: Sarah Nusser</p> <p><u>Oral presentations:</u></p> <p>Mattews et al. Evaluation of the Performance of a Previous Day Recall and the ActiGraph Monitor for Measures of Active and Sedentary Time</p> <p>Tooze et al. A measurement error model for physical activity level measured by a questionnaire, with application to the NHANES 1999-2006 questionnaire</p> <p>Neuhouser et al. Physical Activity Assessment: Biomarkers and Self-Report of Activity-Related Energy Expenditure in the Women's Health Initiative</p>
10:30 – 11:00	<i>Coffee break</i>		
11:00-12:30	<p>A-7 Characterizing sustainable diets and biodiversity</p> <p>Chair/co-chair: Ruth Charrondiere, Barbara Burlingame</p> <p>Invited speaker: T. Longvah</p> <p><u>Oral presentations:</u></p> <p>Burlingame et al. Improving dietary assessment methodologies for characterizing sustainable diets</p> <p>Charrondiere et al. Tools to improve the evidence of the importance of biodiversity for nutrition</p> <p>Monteiro et al. Brazilian northern and southeastern food diversity</p> <p>Ntandou-Bouzitou et al. Effect of introduced foods on the diversity of traditional foods and its possible implications on diets and nutritional status of rural poor communities in Southern Benin</p>	<p>B-7 Measurement of physical activity in low and middle income countries</p> <p>Chair: Heather Bowles</p> <p>Invited Speaker: Olga Lucia Sarmiento</p> <p><u>Oral presentations:</u></p> <p>Khandpur et al. Physical activity among adolescents in India: Objective measurement</p> <p>Ayyat et al. Free-living physical activity among child-bearing age urban Moroccan women using a frequency questionnaire</p> <p>Anjos et al. Physical activity pattern and pedometer counts of adults from Niteroi, Rio de Janeiro, Brazil: The Nutrition Physical Activity and Health Survey</p> <p>Barnes et al. Adapting a Canadian process for the synthesis and translation of physical activity knowledge in Mexico</p>	<p>C-7 Measurement Issues in walking and cycling for transportation</p> <p>Chair: Lars Bo Anderson</p> <p>Invited speaker: Lars Bo Anderson</p> <p><u>Oral presentations:</u></p> <p>Børrestad et al. Validation of self-reported transport</p> <p>Cleland et al. Differential distribution of domain-specific physical activities according to urban-rural area of residence among adults and children</p> <p>Wood et al. Accuracy of prediction equations for estimating the oxygen cost of self-paced walking speed in adults</p> <p>Kelly et al. Can we use digital life-log images to investigate the error on self-reported journey behaviour in school children? Results from a pilot study</p> <p>Merom et al. How well can we monitor the habit and speed of travel-related walking and cycling at the population level</p>

12:30–14:30	<i>Lunch and poster session</i>		
14:30-16:00	<p>A-8 Challenges in assessing diets of children and adolescents</p> <p>Chair/co-chair: Lauren Lissner, Gianni Barba</p> <p>Invited Speaker: Christel Larsson</p> <p><u>Oral presentations:</u></p> <p>Caulfield et al. The use of a harmonized protocol to capture dietary intakes of children from birth to 2 years in 8 countries: the Malnutrition-Enteric Disease MAL-E</p> <p>Lanfer et al. Ffq- based indices to reflect children’s propensities towards fat and sugar</p> <p>Burrows et al. Who is the most accurate reporter of child energy intake – mothers, fathers or the child? - a doubly labelled water validation study of an FFQ</p> <p>Ambrosini. Tracking an obesogenic dietary pattern from 7 to 13 years of age: the Avon longitudinal study of parents and children (ALSPAC)</p>	<p>B-8 New technology for self-report measurement of physical activity.</p> <p>Chair: Charles E. Matthews</p> <p>Invited speaker: Genevieve Fridlund Dunton</p> <p><u>Oral presentations:</u></p> <p>Lagerros et al. Estimating physical activity using cell phones: a randomized population-based study</p> <p>Beer-Borst et al. Development and test of a smartphone application for synchronized real-time dietary assessment and physical activity analyses</p> <p>Bonn et al. A doubly labeled water validation of the new web-based physical activity questionnaire “active-q</p>	<p>C-8 Biomarkers in dietary assessment (in Memory of Sheila Bingham)</p> <p>Chair: Amy Subar</p> <p>Co-Chair: Catherine Champagne</p> <p><u>Oral presentations:</u></p> <p>Subar et al. Checking for completeness of 24-hour urine collection using PABA not necessary in the observing protein and energy nutrition (open) study</p> <p>Vandevijvere et al. Evaluation of food and nutrient intake assessment using concentration biomarkers in european adolescents from the helena study</p> <p>Freedman et al. Results of joint analysis of four large validation studies of dietary self-report instruments that use recovery biomarkers</p> <p>Maskarinec et al. Urinary isoflavonoids as biomarkers of soy intake during a randomized crossover dietary intervention</p> <p>Wang et al. Evaluation of plasma c15:0 and c17:0 as biomarkers of dairy fat intake in five European centers studied in the EFCOVAL study</p> <p>Landberg et al. Alkylresorcinols and their metabolites in plasma and urine as biomarkers of whole grain wheat and rye: which one works best?</p>
16:00-16:30	<i>Coffee break</i>		
16:30-18:00	<p>Plenary Hall:</p> <p>P-6 Debate Self-report and objective monitoring: Do they measure the same thing?</p> <p>Chair: Rick Troiano</p> <p>Invited speakers:</p> <p>Nuala Byrne (Yes. Self-report and devices measure the same thing.)</p> <p>Heather Bowles (No. Self-report and devices measure different things.)</p>		
	<i>Closing session</i>	<i>Barbara Burlingame</i>	

Thursday, May 17, 2012

Post conference workshops

8:00-12:30

Workshop

Measurement Error 1 -Understanding Measurement Error in Diet and Physical Activity

Janet Tooze, Ph.D., Wake Forest U.

Kevin Dodd, Ph.D., National Cancer Institute

Workshop

Dietary patterns

Jill Reedy and P.K. Newby

- a. multi-level perspective, including food supply analyses from different countries
- b. multi-layer perspective (dietary intake, time of “meals”, location, etc.)
- c. pattern recognition from other disciplines/engineer-perspective
- d. “classic” analyses and challenges/opportunities for modeling with health outcomes and mortality
- e. measurement error

13:30-17:30

Measurement Error 2: Software Solutions for Estimating Usual Intake: Hands-On workshop

Dennis Buckman, Ph.D.

Alicia Carriquiry, Ph.D., Iowa State University

Heiner Boeing, Ph.D., DIFE
