

2nd Postgraduate Course

'Modelling of habitual dietary intake'

Statistical Modelling of habitual intake using SPADE

11 & 12 October 2021
Wageningen, The Netherlands

organized by the Graduate School VLAG,
in co-operation with the division of Human Nutrition-Wageningen University & Research (WUR) and the
National Institute of Public Health and the Environment (RIVM), the Netherlands



BACKGROUND

In the evaluation of dietary intake of populations, one is often interested in the habitual (usual) intake, i.e. the long-term average intake. For example to estimate the proportion of a population that meets nutritional recommendations. In food consumption surveys, dietary intake is generally collected with short-term measurements, 24-hr recalls or food records. The dietary intake of an individual can vary considerably from day to day. Consequently, intake measured over a limited number of days will be a poor indicator of the individual as well as population's habitual intake. Statistical modelling makes it possible to estimate the population's habitual intake distribution from repeated short-term measurements. In this course the focus will be on statistical modelling of habitual intake using SPADE (Statistical Program to Assess Dietary Exposure).

COURSE CONTENTS

The course is a 2 days hands-on course with a maximum of 25 participants (PhD's, postdocs, other researchers). The course will consist of a combination of lectures on general principles of modelling habitual intake, lectures on how to use SPADE, and practical exercises with SPADE.

We will teach you hands on experience in using SPADE. SPADE is implemented in a freely available, open-source software R for statistical computing. See for more information;
<http://rivm.nl/en/Topics/S/SPADE>.

PROGRAMME TOPICS

- Principles of habitual intake modelling
- Habitual intake modelling for daily intakes
- Habitual intake modelling for episodic intakes
- Bootstrap procedures to estimate confidence intervals
- Principles of habitual intake modelling for intakes from multiple sources, e.g. foods and dietary supplements

TARGET GROUP

PhD candidates, postdocs, or other researchers interested in this course should work on statistical analyses of food consumption data and have a basic understanding of applied statistics. Since SPADE is an R Package, basic knowledge of R and RStudio is necessary. A dedicated, basic e-learning course on R and R-Studio specifically focused to use SPADE is provided in advance. Participants are expected to follow this e-learning before starting the course.

COURSE ORGANIZER & LECTURERS

Dr Marga Ocké, RIVM / WUR - Human Nutrition and Health

Dr Arnold Dekkers, RIVM

Dr Janneke Verkaik-Kloosterman, RIVM

Ir. Marjolein de Jong, RIVM

COURSE FEES ¹

Affiliation	Fee
PhD candidates affiliated with Graduate School: VLAG / EPS / WASS / WIAS / PE&RC / WIMEK-SENSE	€ 175
other PhD candidates / postdocs and staff from VLAG	€ 400
Postdocs / University staff / non-profit organizations	€ 525
Privat sector / for-profit organizations	€ 800

¹ includes course materials, lunches/tea/coffee and one course dinner

REGISTRATION AND INFORMATION

<https://www.vlaggraduateschool.nl/en/courses/course/MHDI21.htm>

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