



# UCL

## Summer School

# Epidemiological Methods and Analysis

Prague, 5–9 September 2011

UCL London &  
Charles University in Prague, Faculty of Science



**University College London & Charles University, Faculty of Science**  
**Prague Summer School**  
**“Epidemiological Methods and Analysis”**  
Prague, 5-9 September 2011

**Course description:**

This will be a short (1 week) course in epidemiological research methods and data analysis. We are aiming to provide participants with training and first hand experience of simple analysis of epidemiological data, suitable for the level of their past expertise. The course will therefore have several components. In addition to a **common core** covering the principles of research methods and analysis, we will offer two parallel modules (1) **basic statistical methods** for participants with limited analytical experience, and (2) **advanced statistical methods** for participants with more extensive experience.

**Course organisers:**

The course will be organised by the Faculty of Science, Charles University, Prague, Czech Republic and Department of Epidemiology and Public Health, University College London (UCL). Charles University is the leading Czech university, and the Department of Geography, the host of the course, has a longstanding track in research into health during societal transition. UCL is one of the largest British universities, and is consistently ranked among the best universities worldwide. The Department of Epidemiology and Public Health is well known for its population based studies and focus on cardiovascular diseases, determinants of health and social inequalities in health. The Department hosts the Master of Science course in Social Epidemiology, and the members of the Department have organised and participated in a number of international courses, including the London Summer Schools in Social Determinants of Health and the Summer School in Epidemiological Methods held in Krakow in 2008.

The 2011 Summer School is closely linked with the HAPIEE study, a large multi-centre cohort study of cardiovascular disease in Central and Eastern Europe funded by the Wellcome Trust and coordinated by the UCL Department of Epidemiology and Public Health.

**Target audience:**

The course is primarily intended for junior members of staff at universities and research institutions who:

- have an interest in the determinants of health and in the methods used to identify factors influencing health;
- have at least some experience of health related research;
- are involved, or intend to become involved, in epidemiological research;
- are computer literate;
- have a good level of written and spoken English.

**Teaching methods:**

The course will use a combination of short lectures, small group sessions and computer practicals (using STATA software), providing students with skills and first hand experience in data analysis.

The course will be taught entirely **in English**.

**Teaching staff:**

The course will be taught by members of staff of the Department of Epidemiology and Public Health, University College London in collaboration with the Faculty of Science, Charles University, Prague.

**Venue and date:**

The course will be held at the Faculty of Science, Charles University, Prague, Czech Republic, from September 5 until September 9, 2011.

Visit <http://www.ucl.ac.uk/epidemiology/students> to get editable booking form and updated news about the course

### Contents of the course:

The course will cover the basic features of most common epidemiological studies, the principles of statistical analysis and, in particular, will provide practical experience in data analysis. More specifically, the course will cover:

<b>Epidemiological principles</b>
<ul style="list-style-type: none"><li>• study design</li><li>• measures of risk</li><li>• bias and misclassification</li><li>• confounding</li><li>• effect modification</li><li>• causality</li></ul>

<b>Module 1: Basic statistical methods</b>	<b>Module 2: Advanced statistical methods</b>
<ul style="list-style-type: none"><li>• simple analysis of continuous data and categorical data</li><li>• association between exposure and outcome</li><li>• stratified analysis</li><li>• principles of multivariate analysis</li><li>• introduction to linear and logistic regression</li></ul>	<ul style="list-style-type: none"><li>• linear and logistic regression</li><li>• multivariable regression analysis</li><li>• analysis of complex survey data and non-response weighting</li><li>• survival analysis</li></ul>

There will be no examination. A certificate of attendance will be issued to those completing the course.

### Course fee:

The course fee is 400 Euros before June 30, 2011, and 600 Euros for payments after June 30, 2011. Payment will be expected within 1 month of acceptance on the course. The course fee includes teaching materials, supplementary reading list, lectures and seminars by senior staff, lunch, morning & afternoon tea each day and 1 social event but it does not cover accommodation, breakfasts, dinners or transport.

We are pleased to be able to offer a small number of **scholarships** this year. These will take the form of a reduction in the course fee. Scholarships are awarded on the basis of genuine financial need and academic merit. Those applicants wishing to apply for a scholarship should send their CV and a letter of support from a senior academic or researcher together with their application.

### Accommodation and subsistence:

Accommodation with breakfasts at very reasonable prices (approximately 35 Euro per day) has been arranged by the Charles University. Participants are expected to cover the cost of accommodation, subsistence and transport themselves. Should you wish to book accommodation arranged by Charles University, please complete the attached **booking form**.

### Host city:

Prague is an exciting historical city by the river Vltava with many architectonic jewels. You will have an opportunity to experience its fantastic cosmopolitan atmosphere, unique restaurants and cafes as well as lively night life!

### Applications:

Please complete the attached application form and email or post to Dr Hynek Pikhart, Department of Epidemiology and Public Health, 1-19 Torrington Place, University College London, WC1E 6BT ([h.pikhart@ucl.ac.uk](mailto:h.pikhart@ucl.ac.uk)). The deadline for applications is **15 July 2011**.

**University College London / Charles University in Prague**  
**Summer School Application form “Epidemiological Methods and Analysis”**  
 Prague, 5-9 September 2011

Name and surname:																					
Position:																					
Institution:																					
Telephone:																					
Email:																					
Age:																					
Research interests: (please describe)																					
Statistical experience: (please tick as appropriate)	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 12.5%;">STATA</th> <th style="width: 12.5%;">SPSS</th> <th style="width: 12.5%;">SAS</th> <th style="width: 12.5%;">Other</th> </tr> </thead> <tbody> <tr> <td>No data experience with data analysis</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Some experience</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Advanced experience with analysing epidemiological data</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>		STATA	SPSS	SAS	Other	No data experience with data analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Some experience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Advanced experience with analysing epidemiological data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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English	Written (please circle):            fluent      fair      poor Spoken (please circle):            fluent      fair      poor Any certificate in English:																				

**Fees:**

- I wish to apply for a scholarship (deadline 30 May 2011)
- 400 Euros – for payments received by 30 June 2011
- 600 Euros – for payments received after 30 June 2011

**Preferred method of payment:**

- International Bank transfer
- Credit card

**Accommodation requested:**

- Yes
- No

All bookings will be confirmed. Once you have been accepted on the course you will be sent an invoice for the course fee and accommodation if requested. Course fees will be refunded in the unlikely event of a course being cancelled. However, we would not be able to refund/compensate for any other expenses (travel or accommodation). Please return to Dr Hynek Pikhart, Department of Epidemiology and Public Health, 1-19 Torrington Place, University College London, WC1E 6BT ([h.pikhart@ucl.ac.uk](mailto:h.pikhart@ucl.ac.uk)), fax: +44 (0) 20 78130280.