

Università di Cagliari  
Dipartimento di Scienze Mediche e Sanità Pubblica  
Scuola di Specializzazione di Medicina del Lavoro  
2017 Visiting Professor Program

Kyle Steenland, Emory University, Atlanta GA, USA  
Pierluigi Cocco, University of Cagliari

Short course

*Introduction to multivariate methods in environmental/occupational epidemiology*

Università di Cagliari  
Cittadella Universitaria di Monserrato  
June 5 – 8, 2018

June 5

Morning

9:00 – 9:30 Registration

9:30: - 13:00

P. Cocco. Statistical power requirements, sources of bias, adjustments for multiple comparisons.

P. Cocco. Logistic regression models (including tests for interaction and tests for heterogeneity).

K. Steenland. Case study: case control study of end stage renal disease in relation to occupation.

Exercise on logistic regression.

Afternoon

15:00 – 17:00

K. Steenland. Case study of lead cohort with exercise including Poisson regression (+ studies on lead cohorts conducted by our group).

K. Steenland. Case study of cross sectional study of cadmium exposed workers/kidney function, exercise on linear regression.

June 6

Morning

9:30 – 13:00

P. Cocco. Cox proportional hazard models and survival analysis.

K. Steenland. Case study of PFOA cohort with exercise involving Cox regression.

Afternoon

15:00 – 17:00

P. Cocco. Time to pregnancy among DDT workers: exercise with a modified Cox regression

June 7

Morning

9:30 – 13:00

P. Cocco. Cohort vs case control study design. Lecture on ethylene oxide cohort and case-control studies.

P. Cocco. Retrospective exposure assessment in the ethylene oxide case-control study.

Afternoon

15:00 – 17:00

K. Steenland. Lecture on diesel case control and cohort and risk assessment.

June 8

9:30 – 11:00

P. Cocco. Lecture on silica cohort and case-control studies.

11:15 – 13:00

K. Steenland. Lecture on likelihood and on imputing exposure values below limit of detection, with exercise.

13:00. End of the course and delivery of certificates of participation.