

## KI and KCL Short Course

### Clinical Cancer Epidemiology: From Prevention to Treatment and Patient Care.

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- Friday June 14<sup>th</sup> 2024 (hybrid meeting at Karolinska Institute)
- Thursday September 5<sup>th</sup> 2024
- Tuesday October 15<sup>th</sup> 2024
- Tuesday November 5<sup>th</sup> 2024
- Thursday December 5<sup>th</sup> 2024 (hybrid meeting at King's College London)

Note: Time zone is UK.

Audience: Clinicians, PhD/MD students, post-doctoral scientists – no entry requirements

Course organisers: Martin Eklund (KI) and Mieke Van Hemelrijck (KCL)

#### Day 1: Cancer Prevention

9:00 – 9:30: Introduction to the course (Prof Martin Eklund, KI)

9:30 – 10:30: Clinical Guest Lecture (Prof Sabine Rohrmann, University of Zurich): Large cohort and case-control studies to investigate risk factors for cancer.

10:30 – 10:45: Break

10:45 – 12:00: Introduction to Cancer Epidemiology (Prof Mieke Van Hemelrijck, KCL)

12:00 – 13:00: Break

13:00 – 14:15: Chemoprevention and lifestyle interventions (Prof Karen Brown, Leicester University)

14:15 – 14:30: Break

14:30 – 15:45: Health inequalities (Dr Elizabeth Davies, KCL)

15:45 – 16:00: Summary (Prof Mieke Van Hemelrijck, KCL)

#### Day 2: Early detection and Screening

9:00 – 9:30: Introduction to the day and recap (Prof Mieke Van Hemelrijck, KCL)

9:30 – 10:30: Clinical Guest Lecture (Prof Peter Sasieni, QMUL): Cervical cancer screening

10:30 – 10:45: Break

10:45 – 12:00: Introduction to screening (Dr Jiayao Lei, QMUL)

12:00 – 13:00: Break

13:00 – 14:15: AI based risk stratification and individualized breast cancer screening (Prof Per Hall, KI)

14:15 – 14:30: Break

14:30 – 15:45: Behavioural Sciences (Prof Jo Waller, QMUL)

15:45 – 16:00: Summary (Prof Martin Eklund, KI)

### **Day 3: Treatment**

9:00 – 9:30: Introduction to the day and recap (Prof Martin Eklund, KI)

9:30 – 10:30: Clinical Guest Lecture (Dr Bram De Laere, Ghent University): From surveillance, to surgery, radiotherapy, and systemic anti-cancer treatments – what have we learned in prostate cancer?

10:30 – 10:45: Break

10:45 – 12:00: The need for core outcome sets (Dr Steven MacLennan, University of Aberdeen)

12:00 – 13:00: Break

13:00 – 14:15: RCTs and/or/versus RWE (Dr Danielle Crawley, Guy's Cancer Centre and Prof Mieke Van Hemelrijck, KCL)

14:15 – 14:30: Break

14:30 – 15:45: Personalised medicine/AI (Prof Eklund, KI)

15:45 – 16:00: Summary (Prof Mieke Van Hemelrijck, KCL)

### **Day 4: Living with and beyond Cancer**

9:00 – 9:30: Introduction to the day and recap (Prof Mieke Van Hemelrijck, KCL)

9:30 – 10:30: Clinical Guest Lecture (Dr Olga Husson, Erasmus Medical Centre): Cancer Survivorship: the short- and long-term physical and psychosocial consequences of cancer and its treatment – a perspective from AYA cancer survivors.

10:30 – 10:45: Break

10:45 – 12:00: Mixed methods (Dr Louis Fox, KCL)

12:00 – 13:00: Break

13:00 – 14:15: Quality of Life research for cancer patients (Prof Bernhard Holzner, University of Innsbruck)

14:15 – 14:30: Break

14:30 – 15:45: The role of Health economics (Dr Linus Jonsson, KI)

15:45 – 16:00: Summary (Prof Martin Eklund, KI)

### **Day 5: Clinical Cancer Epidemiology across the patient's pathway**

9:00 – 9:15: Introduction to the day and recap (Prof Martin Eklund, KI)

9:15– 10:15: Clinical Guest Lecture (Prof Monique Roobol, Erasmus University): Linking epidemiology and shared treatment decision-making in the cancer pathway.

10:15– 10:30: Break

10:30– 11:20: The value of big data (Dr Mattias Rantalainen, KI)

11:20– 12:10: The importance of Patient and public involvement/engagement (Dr Rachel Giles, International Kidney Cancer Coalition and Dr Lydia Makaroff, World Bladder Cancer Patient Coalition)

12:10– 13:00 Break

13:00 – 13:45: Implementation of prostate cancer screening in Sweden (Prof Ola Bratt, Goteborg University)

13:45 – 14:30: Introduction to Implementation Sciences (Dr Charlotte Moss, KCL)

14:30 – 14:45: Break

14:45 – 16:30: Presentations by students + Summary

### **Assessment**

Students will be asked to prepare a 3 minute presentation in which they outline a cancer research idea whereby clinical epidemiological methods are at the heart of the methodology. They should prepare three slides, which will outline: research questions & rationale; methodology including patient impact. They will then have 2 minutes to answer a question about their methodology.