

UNIVERSITÄT RERN

INSTITUTE OF SOCIAL AND PREVENTIVE MEDICINE UNIVERSITY OF BERN

Scientific Workshop



How studies of background radiation and childhood cancer can improve our understanding of the effects of low-dose ionizing radiation.

SPEAKERS

Prof. Richard Wakeford University of Manchester, UK

Dr. Ausrele Kesminiene

International Agency for Research on Cancer Section of Environment and Radiation World Health Organization, France

Prof. Mark Little

National Cancer Institute
Division of Cancer Epidemiology and Genetics
Radiation Epidemiology Branch, Bethesda, Maryland, USA

Prof. Ole Raaschou-Nielsen

Institute of Cancer Epidemiology Danish Cancer Society, Denmark

Dr. Gerry Kendall

Childhood Cancer Research Group University of Oxford, UK

Dr. Jacqueline Clavel

Dr. Denis Hémon

French Institute of Health and Medical Research (INSERM) Paris Descartes University, France

Prof. Anssi Auvinen

Dr. Atte Nikkilä

School of Health Sciences University of Tampere, Finland

PD Dr. Peter Kaatsch

PD Dr. Claudia Spix

German Childhood Cancer Registry University Medical Center Mainz, Germany

Dr. Ben Spycher

Institute of Social and Preventive Medicine University of Bern, Switzerland

Sponsored by:



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Register by April 30 at

http://www.ispm.unibe.ch/about_us/events/radiation

Venue

ISPM Bern Seminar Room Mittelstrasse 43 3012 Bern Switzerland

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Background and Objectives

It is well established from studies of atomic bomb survivors and other exposed groups that medium to high doses of ionising radiation can induce cancer. Furthermore, children are known to be more sensitive to radiation. However, the direct epidemiological investigation of cancer risks associated with low dose radiation (<100 mSv) remains a major challenge.

Recently, several large record-based studies have investigated associations between the risk of childhood cancer and exposure to natural background radiation. However, the evidence from these studies is mixed.

This scientific workshop will bring together researchers in the field and interested parties from around the world to discuss how epidemiological studies of exposure to background radiation and risk of childhood cancer can improve our understanding of the effects of low-dose ionising radiation.

The first day is organized as plenary sessions followed by a panel discussion that will provide the opportunity to highlight the methodological challenges and discuss the limitations of previous studies.

The second day will be held as round table discussions to debate methodological advances and initiate a multi-national collaboration between the research study groups. The study teams of the recent epidemiological studies will be represented, but the session is open to all interested people.

For more information please contact: antonella.mazzeiabba@ispm.unibe.ch

Program

Tuesday, 5 June (room 24)

13.00 Welcome & setting the scene Ben Spycher

Broader context Chair: Matthias Egger

13:15 Epidemiological evidence of cancer risks following exposure to ionising radiation in childhood
Richard Wakeford

13:45 Childhood leukaemia and CT scans: Overview of recent epidemiological studies Ausrele Kesminiene

14:15 Methodological challenges of epidemiological research on the effects of natural background radiation

Mark Little

14.45 Coffee Break

Recent studies on background radiation and childhood cancer Chair: Claudia Kübni

Chair: Claudia Kühni

- 15.15 Indoor radon and childhood leukaemia Ole Raaschou-Nielsen
- 15.35 A record-based case-control study of natural background radiation and the incidence of childhood leukaemia and other cancers in Great Britain during 1980-2006

 Gerry Kendall

15:55 Background ionizing radiation and the risk of childhood cancer: a census-based nationwide cohort study

Ben Spycher

	16:15	Coffee	break
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- 16.30 Residential Exposure to Natural Background Radiation and Risk of Childhood Leukaemia in France, 1990-2009 Jacqueline Clavel / Denis Hémon
- 16.50 Background radiation and childhood leukemia: A nationwide register-based case-control study

 Anssi Auvinen / Atte Nikkilä
- 17.10 Background gamma radiation and childhood cancer in Germany: an ecological study Claudia Spix / Peter Kaatsch

Panel discussion

Chair: Richard Wakeford

17:30 What have we learnt?

19:30 Dinner

Wednesday, 6 June (room 220)

Round table discussion Chairs: Anssi Auvinen, Ben Spycher

- 8:30 Open questions and methodological challenges
- 10:00 Coffee break
- 10:30 Possibilities and scope of future collaboration
- 12:00 Summing up
- 12:30 Stand-up Lunch / Farewell