



Freie Universität



Berlin



WORLD
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Data in Health

Brainstorming Meeting

Berlin

11th-12th June 2019

11th June

Welcome reception from 19.15 and informal meal from 20.00
Berliner Sparkasse Alexanderplatz 2, 10178 Berlin

12th June

Plenarsaal, Berliner Sparkasse, Alexanderplatz 2, 10178 Berlin

Introduction

The purpose of this brainstorming meeting is to uncover common interests and possibilities for future collaborations between researchers in Oxford and in Berlin, involving also their many other research partners in Europe and around the world, taking advantage of each side's strengths in areas spanned by the theme 'data in health'. This is a potentially extremely broad theme, with many overlaps, as it encompasses, amongst other things: big data; AI; machine learning; digital health; sensors and wearable computing; evidence-based medicine; trial data; the strengthening of Europe-wide and global data platforms; telehealth, especially in resource-poor settings; data to support disease prevention, outbreak detection, health economics, planetary health, and efforts to tackle antimicrobial and drug resistance; reproducibility of data; validity/quality of evidence; surveillance; open-source data; the use of blockchain in medical R&D; etc.

The intention of this agenda is to be emphatically non-prescriptive, and to allow the future direction of this conversation to come out of the exchanges among participants in the meeting. In particular, we are keen to identify pre-existing areas that will be stronger if more partners work together, and useful new activities that none of us is yet engaged in. It will be the job of session moderators to draw this out in discussion. In this spirit, it was tempting to keep sessions title-free to allow for all potential fruitful overlaps to be explored. Nevertheless, the sessions have been titled to reflect some of the key interests of those speaking in each session, but this is not meant to limit the discussion part: session moderators are strongly encouraged to invite discussion across themes.

12th June 8.15: Refreshments available

8.45 Welcome

Tobias Kurth: Professor of Public Health and Epidemiology and Director of the Institute of Public Health, Charité, Berlin

Alastair Buchan: Professor of Stroke Medicine and Pro-Vice-Chancellor, University of Oxford

Andrew Farlow: Senior Fellow, Oxford Martin School, University of Oxford

9.00-10.40 Session 1: Big data, machine learning, computer-assisted medicine, deep medicine

Jens Rittscher: Professor of Engineering Science, Institute of Biomedical Engineering and Nuffield Department of Medicine, Target Discovery Institute, Big Data Institute, University of Oxford

Titus Kühne: Director of the Institute of Computer-assisted Medicine at the Charité – Universitätsmedizin Berlin

Tingting Zhu: Senior Researcher, Computational Health Informatics (CHI) Lab, Institute of Biomedical Engineering, University of Oxford

Kazem Rahimi: Director, Oxford Martin Programme on Deep Medicine; James Martin Senior Fellow in Essential Healthcare; Honorary Consultant Cardiologist at the John Radcliffe Hospital, Oxford

Discussion - moderated by:

Thomas Wiegand: Chair, Media Technology, Technische Universität Berlin, and Executive Director, Fraunhofer Heinrich Hertz Institute, Berlin

Susie Dunachie: Associate Professor, Infectious diseases physician and clinical microbiologist for the Global Research on AntiMicrobial Resistance (GRAM) Study, University of Oxford

10.40-10.50 Break

10.50-12.20 Session 2: Digital health

Roland Eils: Professor for Digital Health, Berlin Institute of Health (BIH) and the Charité, Berlin

Chris Paton: Group Head of the Global Health Informatics Group in the Centre for Tropical Medicine and Global Health at the University of Oxford

Bert Arnrich: Professor in Digital Health - Connected Healthcare, Hasso Plattner Institute, Faculty of Digital Engineering, University of Potsdam

Discussion - moderated by:

Elke Schaeffner: Deputy Director, Institute of Public Health, Charité, Berlin

Nina Adelberger: Managing Director, Berlin School of Public Health

12.20-12.50 Lunch break

12.50-14.20 Session 3: Use of data in decision making in public health, health care management, prevention, and economics

Chris Dye: Visiting Professor of Zoology, University of Oxford, formerly Director, Strategy, Office of the Director General, World Health Organisation

Reinhard Busse: Professor and Director of the Department of Health Care Management, Technische Universität Berlin, Co-Director European Observatory on Health Systems and Policies

Philip Clarke: Professor in Health Economics, Director of the Health Economics Research Centre, Oxford

Discussion - moderated by:

Wilm Quentin: Senior Research Fellow, Health Care Management, Technische Universität Berlin

Jose Leal: Senior Health Economist, Health Economics Research Centre, University of Oxford

14.20-15.50 Session 4: Epidemiological, clinical, and trial data, sustainable Europe-wide and global data-sharing platforms

Geraldine Rauch: University Professor, Director of the Institute of Biometry and Clinical Epidemiology at the Charité, Berlin

Philippe Guerin, Professor of Epidemiology and Global Health, University of Oxford, and Director of the Infectious Diseases Data Observatory (IDDO)

Jessica Rohmann: Research Associate, CONVERGE, Institute of Public Health, Charité, Berlin

Discussion - moderated by:

Tobias Kurth: Professor of Public Health and Epidemiology and Director of the Institute of Public Health, Charité, Berlin

Jens Steinbrink: Director of Strategy, Charité, Berlin

15.50-16.00 Break

16.00-17.40 Session 5: Doctor and patient decision-making, value based health care, population ageing

Gerd Gigerenzer: Director of the Harding Center for Risk Literacy, Max Planck Institute for Human Development, Berlin

Valerie Kirchberger: Consultant to the Medical Director, Head of Value-Based Healthcare in the Department of Strategic Development, Charité, Berlin

Anant Jani: Honorary Research Fellow, Value Based Healthcare, Nuffield Department of Primary Care Health Sciences, University of Oxford

Felix Balzer: Professor of E-Health and Shared Decision Allocation, Einstein Center Digital Future (ECDF) Charité, Berlin

Discussion - moderated by:

Apostolos Tsiachristas: Senior Researcher at the Health Economics Research Centre, University of Oxford

Günther Jonitz: President of the Berlin Chamber of Physicians

17.40-18.00 Discussion and next steps

Moderated by: **Alastair Buchan and Andrew Farlow**

Other participants in the meeting

Evgeniya Anikina: Director Human Data Science, Gesundheitscloud, Berlin

Sebastian Funk: Associate Professor and Wellcome Trust Senior Fellow, London School of Hygiene & Tropical Medicine

Florian Nickels-Teske: COO/CSO smart Helios

Shelli Rahman-Elbaum: Robert H. Smith faculty of Agriculture, Food and Environment at the Hebrew University of Jerusalem, PI of the HEDisH (Hoarding-associated Eating Disorders in Holocaust Survivors) research project, Hebrew University of Jerusalem and Potsdam University.

Not present in the meeting but closely following developments

David Clifton: Group leader, and Associate Professor in the Department of Engineering Science, University of Oxford

Ulrich Dirnagl: Founding Director, BIH QUEST Centre for Transforming Biomedical Research, Director of Department of Experimental Neurology, Charité, Berlin

Christiane Dolecek: University Research Lecturer, Centre for Tropical Medicine and Global Health, University of Oxford and Mahidol Oxford Tropical Medicine Research Unit, Mahidol University, Bangkok, Thailand

Christian Drosten: Director of Institute of Virology, Charité, Berlin

Sabine Gabrysch: Professor for Climate Change and Health, Charité, and Co-Chair, Research Department 2, Potsdam Institute for Climate Impact Research

Detlev Ganten: President of the World Health Summit, Berlin

Muir Gray: Consultant in Public Health in Oxford University Hospital NHS Trust and Professor, Department of Primary Care Health Sciences, University of Oxford

Johanna Hanefeld: Head of the Anthropology, Politics, and Policy Group, Charité, Berlin, and London School of Hygiene and Tropical Medicine

Claudia Hartmann: Implementation and Research Project Manager, Value-Based Healthcare, Charité, Berlin

Sven Jungmann: Digital Health Entrepreneur at FACTOR10, and Medical Doctor

Trudie Lang: Professor of Global Health Research; Head of the Global Health Network and Senior Research Scientist in Tropical Medicine, University of Oxford

Wen Hwa Lee: Chief Executive Officer at Action Against AMD & Director, Oxford Martin Programme on Affordable Medicines, University of Oxford

Gil McVean: Professor of Statistical Genetics, Director of the Big Data Institute, University of Oxford

Lothar Wieler: President, Robert Koch Institute, Berlin

Guidance points and other notes:

- Since discussion needs to take priority over presentations, the number of speakers has been restricted to less than half of those who are invited. This necessitated some difficult decisions about who would and who would not speak and who would act as moderators of discussion; apologies to anyone who thinks this wasn't quite ideal.
- Speakers are asked to present for a maximum of 8 minutes, to leave about an hour or so per session, and more time at the end of the morning and afternoon, for discussion. If necessary, extra slides can be loaded for reference in the discussion sessions.
- Moderators of discussions are welcome to first spend a few minutes introducing the institutes or groups they represent, and explaining the relevance of their own activities to the theme of the meeting. The principle role of the moderators is to keep the flow of discussion going and to identify and record actionable points for the future.
- The order has been shaped by the needs of a couple of individuals to leave early to catch flights for meetings the following day and the needs of two other individuals who are available only in the afternoon.
- The Oxford/Berlin public and global health activity initially identified four, overlapping, priority focus areas: i) data in health ii) antimicrobial resistance; iii) affordable medicines, effective healthcare; iv) climate and health, one health, planetary health. To facilitate fruitful synergies between data in health and the other three areas, each focus area has at least one person representing it in the meeting. These areas are proving by no means exhaustive.
- Since the LSHTM is also building stronger links with Berlin and we wish to strengthen each other's efforts, the LSHTM is represented in the meeting.