



Historical Influenza Pandemics: Lessons Learned, May 3-7, 2010

Carlsberg Academy, Copenhagen, Denmark

Day 1: Monday, May 3

8:30 am–9:00 am Registration

9:00 am – 9:45 am Session I. Welcome and MISMS overview.

- Kåre Mølbak, Statens Serum Institut, Denmark: *Welcome*
- Mark Miller, Fogarty International Center, USA: *MISMS Overview*

9:45 am – 11:00 am Session II. The 1889 Pandemic.

- Lone Simonsen, George Washington University, USA: *Signature features of pandemic influenza*
- Alain-Jacques Valleron, Université Pierre et Marie Curie, France: *The 1889 Influenza Pandemic*
- Lars Skog, ESRI S-GROUP, Sweden: *The Russian Influenza in Sweden in 1889-1990*

11:00 am – 11:30 am Coffee break

11:30 am - 12:15 pm Session II. The 1889 Pandemic. (continued)

- Mark Honigsbaum, Wellcome Trust Centre for the History of Medicine at UCL, UK: *The Great Dread: the 'Russian' Influenza in the United Kingdom*
- Jim Oeppen, Max Planck Institute for Demographic Research, Germany: *Estimating reproductive numbers by age and sex during the 1889-90 influenza pandemic in Madrid and Munich*

12:15 pm – 1:15 pm Lunch

1:15 pm – 3:00 pm Session III. Age mortality and morbidity patterns.

- Cécile Viboud, Fogarty International Center, USA: *1918 pandemic age mortality patterns in 13 countries*
- Viggo Andreasen, Roskilde University, Denmark: *Why did the Danes not die in 1918?*
- Ida V. Kolte, NFA, Denmark: *Spatial analysis of the Spanish flu mortality in Denmark*
- Gerardo Chowell, Arizona State University & Fogarty International Center, USA: *Unexpected mortality patterns associated with the 1918 influenza pandemic in Mexico: evidence for a spring herald wave and lack of pre-existing immunity in older populations*
- Wladimir Alonso, Fogarty International Center, USA: *The pandemic wave of influenza in 1918 in Florianopolis, a Brazilian sub-tropical island*
- Nesli Saglanmak, Roskilde University, Denmark: *Gradual changes in the age distribution of deaths following the 1918 pandemic in Copenhagen: using epidemiological evidence to detect antigenic drift*

3:00 pm - 3:30 pm Coffee break

3:30 pm – 4:30 pm Session IV. Co-infections and risk factors.

- Andrew Noymer, University of California, Irvine, USA: *The 1918 influenza pandemic hastened the decline of tuberculosis in the US*
- Dan Weinberger, Harvard School of Public Health, USA: *The importance of pneumococcal serotypes in determining bacterial carriage and disease patterns: potential implications for influenza*
- Kimberly Bloom-Feshbach, Fogarty International Center, USA: *Natality decline and spontaneous abortions associated with the 1918 influenza pandemic: the Scandinavian and US experiences*

4:30 pm – 4:40 pm Logistics: Kimberly Bloom-Feshbach

4:40 pm – 5:00 pm Closing remarks for the day

Day 2: Tuesday, May 4

9:00 am – 9:30 am Morning lecture: Annika Linde, Swedish Institute for Infectious Disease Control, Sweden: *Viral interference and the 2nd wave of excess “influenza and pneumonia death” in 1957-1958.*

9:30 am – 11:00 am Session V. Transmission dynamics.

- Christophe Fraser, Imperial College London, UK: *Insights into influenza transmission from historical and contemporary household studies*
- Magnus Gottfredsson, Landspítali University Hospital, Iceland: *Familiarity of fatal influenza in Iceland*
- Kirsty Bolton, University of Melbourne, Australia: *Alternative immune hypothesis for explaining the three mortality waves of the UK 1918-19 influenza pandemic*
- Caterina Rizzo, Istituto Superiore di Sanità, Italy: *Investigating the epidemiology and the transmission dynamics of the 1918-19 influenza pandemic in Florence, Italy*

11:00 am – 11:30 am Coffee break

11:30 am – 12:45 pm Session VI. Spatial and temporal analyses.

- Lisa Sattenspiel, University of Missouri, USA: *The spread of the 1918-19 influenza epidemic on the island of Newfoundland*
- Rodolfo Acuna-Soto, Facultad de Medicina/Universidad Nacional Autonoma de Mexico, Mexico: *Temporal and spatial distribution of the 1918 Spanish Influenza in Mexico*
- Don Olson, International Society for Disease Surveillance (ISDS), USA: *The historical epidemiology of influenza in New York City*

12:45 pm – 1:45 pm Lunch

1:45 pm – 2:45 pm Session VII. Disease surveillance and interventions.

- Jens Lundgren, University of Copenhagen & State University Hospital, Denmark: *Ongoing Global Assessment of Severity of the 2009 H1N1v Influenza A pandemic: INSIGHT (International Network for Strategic Initiatives in Global HIV Trials) FLU 002 and 003 protocols*
- Jens Nielsen, SSI, Denmark: *Tracking mortality in near-real time during the 2009 pandemic*
- Katarina Widgren, ECDC/ Statens Serum Institut, Denmark: *Surveillance of the 2009 influenza pandemic in Denmark: The school-children were hit the hardest*

2:45 pm – 3:15 pm Coffee break

3:15 pm – 4:30 pm Session VIII. Pandemic impact on society.

- Douglas Gill, Retroscreen Virology Limited, UK: *Harvard & the Great Pandemic*
- Sverre-Erik Mamelund, Norwegian Institute of Public Health, Norway: *The impact of influenza on mental health in Norway 1872-1929*
- Gearóid Ó Cuinn, University of Nottingham, UK: *The evolving relationship between influenza and the law in Britain*

4:30 pm – 5:00 pm Session IX. Conclusions: Lessons of the past, modern analytical tools, and options for future collaborations.

- Steffen Glismann, Statens Serum Institut, Denmark: *Closing remarks*
- Mark Miller, Fogarty International Center, USA: *Opportunities for future collaborations*



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Workshop agenda

Day 3: Wednesday, May 5

9:00 am – 5:00 pm Workshops on tools of spatial analysis, with workshops led by:

- Lisa Sattenspiel, University of Missouri, USA: *Modeling the geographic spread of influenza: methods, approaches, and applications*
- Wladimir Alonso, Fogarty International Center, USA: *The visual display of spatio-temporal epidemiologic data*

Day 4: Thursday, May 6

9:00 am – 5:00 pm Workshops on time-series analysis and the estimation of R_0 , with workshops led by:

- Cécile Viboud and Vivek Charu, Fogarty International Center, USA: *Time series and disease burden models for influenza*
- Gerardo Chowell, Arizona State University & Fogarty International Center, USA: *Estimation of the reproduction number of pandemic influenza*

Day 5: Friday, May 7

9:00 am – 2:00 pm Collaborative data analysis and practical training

Thank you for attending, and safe travels!

**From: The “Historical Influenza Pandemics: Lessons Learned”
Meeting & Workshop Organizers**