

Agenda – Session 2	Speakers	Hours
<i>ECDC introduction and rules of conduct</i>	Dr Luca Freschi (ECDC, Sweden)	14:30 – 14:40
1. Guided correction of practical exercises and discussion (30-45 min) - Step-by-step correction of exercises - Background on evolutionary models and basic phylogenetics - Sequence alignment - Maximum likelihood phylogenies - Serotype and virus type identification - Vaccine-derived outbreak reconstruction in the DRC: overlaying time and space - Q&A	Dr Darlan De Silva Candido (Imperial College London, UK)	14:40 – 15:25
2. Wastewater monitoring of polioviruses (45 min) - Wastewater monitoring for poliovirus in Germany - Detections of cVDPV2 and WPV1 in wastewater in Germany - Public health response to poliovirus detections in wastewater in Germany - Q&A	Dr Sindy Böttcher (Robert Koch Institute, Germany) Dr Cornelius Rau (Robert Koch Institute, Germany)	15:25 – 16:10
Break		16:10 – 16:20
3. Vaccination and Evolution of vaccine-derived strains (30 min) - Transition from OPV (Oral Polio Vaccine) to IPV (Inactivated Polio Vaccine). - Risk factors for VDPV (Vaccine-Derived Polio Virus) emergence and evolution of vaccine-derived strains. - Genomic differences between wild-type poliovirus, OPV strains, and circulating VDPVs. - Q&A	Dr Corey Peak (Gates Foundation, USA)	16:20 – 16:50
Break		16:50 – 17:00
4. Future Directions in Polio Research and Eradication Efforts (30 + 30 min) Kathleen: - Global Polio Eradication Initiative (GPEI) updates. - Strategies to improve immunization in low-coverage areas. - Use of genomic data in outbreak response Kaija: - The role of bioinformatics in long-term monitoring. - Challenges in maintaining polio eradication. - Q&A	Dr Kathleen Rankin (Gates Foundation, USA) Ms Kaija Hawes (Gates Foundation, USA)	17:00 – 18:00
Conclusion and Q&A		18:00