

## Annual Scientific Meeting

1<sup>ST</sup> & 2<sup>ND</sup> MARCH 2017  
UNIVERSITY OF LIVERPOOL  
LMI | LIVERPOOL | L3 5SR

### PROGRAMME

(Posters to arrive between 9am-10am, to be on view during registration)

#### DAY 1

10.00 am Registration & coffee on arrival

10.30 am **Welcome & Introduction to the NIHR Health Protection Research Unit (HPRU) in Gastrointestinal Infections**  
Professor Jim McLauchlin, PHE Lead, NIHR HPRU in Gastrointestinal Infections

10.45am **KEYNOTE SPEAKER: Modernising diagnosis and surveillance of Gastrointestinal Infections**  
Professor Sarah O'Brien, Director, NIHR HPRU in Gastrointestinal Infections

11.20 am Discussion

#### BURDEN OF ILLNESS

##### Session 1 Chair: Martin Maiden and Bob Adak

11.30 am **Family income and presentation to primary and secondary care for Diarrhoeal, Respiratory and Ear Infection: evidence from the UK Millennium Cohort Study**  
Mara Violato, Research Fellow

11.45 am Discussion

11.50 am **Investigating the burden and transmission of acute gastroenteritis in care homes on Merseyside**  
Thomas Inns, PhD Student

12.05 pm Discussion

12.10 pm **Relationship between socioeconomic status and gastrointestinal infections in developed countries: A systematic review and meta-analysis**  
Natalie Adams and Tanith Rose, PhD Students

12.25 pm Discussion

12.30 pm Finger Buffet Lunch & Poster Session

#### BURDEN OF ILLNESS

##### Session 2 Chair: Paul Hunter and Roberto Vivancos

1.30 pm **How qualitative research evidence can help to better understand health inequalities in Gastrointestinal Infection (GI) in socially contrasting places**  
Dr Sarah McGarrol, PDRA

1.45 pm Discussion

1.50 pm **How are the management and consequences of gastrointestinal infections shaped in the context of households with young children in differing socio-economic and geographical locales?**  
Suzanne Rotheram, PhD Student

2.05 pm Discussion

- 2.10 pm** **Place-Based case studies: Understanding how the local context and environment influences differential exposure, differential vulnerability and differential social, economic and health care consequences of GI infection**  
Dr Rachael Eastham, PDRA and Dr Alexandra Kaley, PDRA
- 2.25 pm *Discussion*
- 2.30 pm** **Sequelae of gastrointestinal infections: incidence and risk factors**  
Oluwaseun Esan, PhD Student
- 2.45 pm *Discussion*
- 2.50 pm *Coffee Break*

### SURVEILLANCE TOOLS

#### Session 3 Chair: Arjan Narbad and Jim McLauchlin

- 3.20 pm** **Development of methods for the analysis of observational studies in systematic reviews and its application to analyses of sample data**  
Adedoyin Awofisayo-Okuyelu, PhD Student
- 3.35 pm *Discussion*
- 3.40 pm** **Environmental sampling to detect presence of Shiga toxin-producing *E. coli* in the English countryside**  
Dr Erica Kintz, PDRA
- 3.55 pm *Discussion*
- 4.00 pm** **Retrospective genomic analyses of *Campylobacter* isolates to investigate long-term trends in human campylobacteriosis in the UK**  
Clare Barker, PhD Student
- 4.15 pm *Discussion*

### NEW PhD STUDENTS

#### Session 4 Chair: Arjan Narbad and Jim McLauchlin

- 4.20 pm** Jennifer Mattock, PhD Student
- 4.25 pm** Obaghe Edeghere, PhD Student
- 4.30 pm** Caoimhe McKerr, PhD Student
- 4.35 pm** **KEYNOTE SPEAKER: 'Good reasons for bad behaviour': a sociological approach to food handling in the domestic kitchen**
- 5.10pm Professor Anne Murcott, Professorial Research Associate, SOAS Food Studies Centre, University of London
- Discussion*

**5.20 pm** **CLOSE OF MEETING DAY 1**

**6.15 pm** **Dinner at Victoria Gallery & Museum**

**Followed by After Dinner Speaker**

Professor Patrick Wall, Associate Professor of Public Health, Institute of Food and Health, University College Dublin.

## DAY 2

8.45 am Registration & coffee

### SURVEILLANCE TOOLS

Session 5 Chair: Miren Iturriza-Gomara and David James Allen

9.00 am **Source attribution of *Campylobacter***

Dr Melissa Jansen van Rensburg, PDRA

9.15 am *Discussion*

9.20 am **A spatio-temporal analysis of STEC O157 in England**

Richard Elson, PhD Student

9.35 am *Discussion*

9.40 am **Study of the burden of infectious intestinal disease associated with school absenteeism and the development of a pilot study for the use of school absence registers as a syndrome surveillance system**

Dr Anna Donaldson, Research Fellow

9.55 am *Discussion*

10.00 am **Application of metagenomics and metabolomics for the diagnosis of gastroenteritis**

Saskia Neuert, PhD Student

10.15 am *Discussion*

10.20 am Team Photograph

10.25am *Coffee Break*

### OUTBREAKS AND INTERVENTIONS

Session 6 Chair: Margaret Whitehead and Jeremy Hawker

10.50 am **KEYNOTE SPEAKER: Working at the Public Health Science/Policy Interface: Lessons from Slavery, Rum & Tobacco?**

Professor Simon Capewell, Vice-President for Policy, UK Faculty of Public Health

11.25 am *Discussion*

11.35 am **The impact of Rotavirus vaccination program in England on Emergency department attendances: where are we now?**

Helen Hughes, PhD Student

11.50 am *Discussion*

11.55 am **Core genome MLST and SNP typing are congruent as seen within a European *Salmonella* Enteritidis outbreak**

Madison Pearce, PhD Student

12.10 pm *Discussion*

12.15 pm *Comfort Break*

12.25 pm **Combating *Clostridium difficile* infection through the use of faecal microbiota transplantation**

Lee Kellingray, PDRA

12.40 pm *Discussion*

12.45pm **Re-assessing the total burden of norovirus circulating in the United Kingdom population**

John Harris, Lecturer

1.00 pm *Discussion*

1.05 pm **Vote for People's Choice Award for Best Oral Presentation**

1.10 pm **NIHR HPRU Review of the Year and Forward Look**

Professor Sarah O'Brien

1.25 pm **Presentation & Poster Prizes**

1.30 pm **CLOSE OF ANNUAL SCIENTIFIC MEETING**