### Workshop Agenda

<table>
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<tr>
<th>Start (BST)</th>
<th>Finish (BST)</th>
<th>Presenter details</th>
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<td><strong>Monday, 11 July 2022</strong></td>
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<td>12:00</td>
<td>13:00</td>
<td>Registration and lunch</td>
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| 13:00 | 13:45 | Introduction, to the course aims of the course and introduction to the group work  
The committee will give an overview of the course and learning objectives and well as introduce the group work activities  
Michelle Bishop, Wellcome Connecting Science, UK  
Scientific Programme Committee:  
Edward Miller, Health Education England, UK  
Amanda Pichini, Genomics England, UK  
Emma Tonkin, University of South Wales, UK |
| 13:45 | 15:15 | Session 1: Genomics in healthcare – where are we now?  
Aim of session: this session will give an overview of the role of genomics in the NHS and how clinical genetics works in practice. We will also cover the NMC standards and the increasing role of nurses and midwives in genomic healthcare  
Chair: Edward Miller, Health Education England, UK  
13:45 | 14:05 | Genomic Applications Across the Healthcare Continuum: Implications for Nursing and Midwifery Practice  
Kathleen Calzone, National Cancer Institute, USA  
14:05 | 14:25 | Planning for the future through understanding what has come before  
Emma Tonkin, University of South Wales, UK |
| 14:25 | 14:45 | Integrating genomics across the nursing and midwifery workforce in the NHS  
Janice Sigsworth – Imperial College Healthcare, UK  
14:45 | 15:15 | Q&A Session with all speakers  
15:15 | 15:45 | Refreshment break and group activity |
| **15:45** | **17:15** | Session 2: Genomic applications in nursing and midwifery practice  
Aim of session: we will hear from a selection of nurses/midwives who work in the genomics area on how they incorporate genomics into their practice followed by a panel discussion  
Chair: Amanda Pichini, Genomics England, UK  
15:45 | 16:00 | Beyond BRCA … learning from ovarian cancer pathway  
Tracey Miles, Royal University Hospital Bath, UK  
16:00 | 16:15 | Non-invasive prenatal screening for fetal trisomy: an example of mainstreaming genomics into maternity services  
Jo Hargrave, St George’s University Hospital, UK  
16:15 | 16:30 | My journey into Genomics  
Angela Cazeaux, University Hospital Southampton, UK  
16:30 | 16:45 | How genomics is changing lives for those with Learning Disabilities and/or Autism, their families and carers. Reflecting on one families journey through the 100,000 Genomes project, the implications for practice and what we can learn going forwards  
Michaela Thomson, Mersey Care NHS Foundation Trust, UK |
| 16:45 | 17:15 | Panel discussion with speakers |
## How to Teach Genomics: A Workshop for Nursing and Midwifery Educators

### 11 - 14 July 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>17:15</td>
<td>17:30 Comfort Break</td>
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<td>17:30</td>
<td>18:30 Session 3: Integrating genomics into education - challenges/opportunities</td>
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<td>Aim of session: this interactive sessions will provide a refresher of important concepts relevant for nurses and midwives</td>
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|       | Facilitators: Edward Miller, Health Education England, UK  
       |emma Tonkin, University of South Wales, UK |
| 18:30 | 19:00 Genomics ‘Clinic’ - an opportunity to ask questions of the committee |
| 19:00 | Dinner                                      |
|       | **Tuesday, 12 July 2022**                  |
| 09:00 | 10:30 Session 4: What are the requirements in different areas of practice? |
|       | Aim of session: In break out groups and with our nurse specialists from session 2, we will explore the needs of the different fields of nursing (Adult, Child and YP, Learning Disability, Mental Health) and midwifery/maternity, and the applications of genomics to these areas. |
|       | Chair: Amanda Pichini, Genomics England, UK |
|       | Facilitators: Angela Cazeaux, University Hospital Southampton, UK  
       |Jo Hargrave, St George's University Hospital, UK  
       |Tracey Miles, Royal University Hospital Bath, UK  
       |Michaela Thomson, Mersey Care NHS Foundation Trust, UK |
| 10:30 | 11:00 Refreshment break and group photo   |
| 11:00 | 12:30 Reflection session - A chance for participants to consider how to apply knowledge in their setting |
| 12:30 | 14:00 Lunch                                |
| 14:00 | 15:30 Session 5: What do you need to take this forward: Genomics resources |
|       | Aim of session: Using the Educators Toolkit this session will focus on the content required by nurses and midwives over the three year undergraduate courses and will include discussions on: |
|       | 1. NMC standards  
       | 2. Incorporating genomics into learning, skills development and reflective (and reflexive) practice  
       | 3. Educational resources  
       | 4. How to teach genomics? Including: how much of the ‘science’ do we talk about  
       | 5. Assessment |
|       | Chair: Michelle Bishop, Wellcome Connecting Science, UK |
|       | Speakers  
       |Edward Miller, Health Education England, UK  
       |Amanda Pichini, Genomics England, UK  
       |Emma Tonkin, University of South Wales, UK |

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15:30  16:00  Refreshment break

16:00  17:30  **Session 6: Hints and tips for teaching genomics**
Aim of session: a panel discussion to share our experiences and learn from our mistakes - will include discussions on reaching your audience, what works best face-to-face, compared with online or in a blended format?
Chair: Michelle Bishop, Wellcome Connecting Science, UK
Panelists will include:
Kathleen Calzone, National Cancer Institute, USA
Edward Miller, Health Education England, UK
Amanda Pichini, Genomics England, UK
Emma Tonkin, University of South Wales, UK

17:30  18:30  **Group Work I - Different teaching scenarios - the learners perspective**
Aim of session: in small groups we will explore how to teach all aspects of genomics in a range of different settings
Facilitators:
Edward Miller, Health Education England, UK
Amanda Pichini, Genomics England, UK
Emma Tonkin, University of South Wales, UK

19:00  Dinner

**Wednesday, 13 July 2022**

09:00  10:30  **Group Work II: designing and delivering a genomic session for nurses and/or midwives**
Aim of session: picking up on the previous session, we will focus on designing the content based on your chosen scenario
Facilitators:
Edward Miller, Health Education England, UK
Amanda Pichini, Genomics England, UK
Emma Tonkin, University of South Wales, UK

10:30  11:00  Refreshment break

11:00  12:30  **Group Work III - teaching scenarios**
Participants have the opportunity to share their ideas and feedback to the wider group

12:30  14:00  Lunch

14:00  15:30  **Session 8: Patient perspective - integrating into education**
Aim of session: to update - we will explore key communication skills required especially around ethical issues and highlight the role of the nurse/midwife in patient pathways
Chair: Amanda Pichini, Genomics England, UK

14:00  14:05  Introduction to session
14:05  14:40  The rare disease diagnostic odyssey – the patient & family perspective
Charles Steward, Member of The Participant Panel to Genomics England
14:40  15:00  Talking genomics - key communication skills for nurses and midwives
Amanda Pichini, Genomics England, UK
15:00  15:30  Genomics and the cancer journey – a patient and participant’s perspective
Helen White, Member of The Participant Panel to Genomics England

15:30  16:00  Refreshment break
### 16:00 - 16:30  Incorporating genomics into nursing & midwifery curricula
Chair: Edward Miller, Health Education England, UK

- 16:00 - 16:30  Learning gained from scoping inclusion of genomics in nursing and midwifery programmes
  - Nigel Harrison, Anglia Ruskin University, UK

### 16:30 - 17:00  Genomics ‘Clinic’ - an opportunity to ask questions of the committee

### 17:00 - 17:30  Free Time

### 17:30 - 18:30  Drinks reception

### 18:30  Course Dinner

### Thursday, 14 July 2022

**Session 9: Ethics at the front line: case studies involving genomics**

*Aim of session: Discussion of the ethical, legal and social challenges for healthcare and the wider public as a result of genomics - how to bring this into course design*

Chair: Michelle Bishop, Wellcome Connecting Science, UK

- 09:00 - 09:15  Genomics and the Public
  - Richard Milne, Connecting Science, UK

- 09:15 - 09:30  Confidentiality and the General Data Protection Regulation: implications for clinical genetics practice
  - Alison Hall, PHG Foundation, UK

- 09:30 - 09:45  Ethics at the front line: case studies involving genomics
  - Amanda Pichini, Genomics England, UK

- 09:45 - 10:30  Panel Session

### 10:30 - 11:00  Refreshment break

**Session 10: Preparing the future practitioner – what’s on the horizon?**

*Aim of Session - how to incorporate future developments into teaching?*

Chair: Emma Tonkin, University of South Wales, UK

- 11:00 - 11:15  Developing a national newborn genomes programme
  - Amanda Pichini, Genomics England, UK

- 11:15 - 11:30  Implementing polygenic scores for Cardiovascular Disease - impacts on patients and healthcare professionals
  - Tanya Brigden, PHG Foundation, UK

- 11:30 - 11:45  The role of pharmacogenetics in medicines optimisation
  - Jackie Buck, University of East Anglia, UK

- 11:45 - 12:10  Q&A and discussion

- 12:10 - 12:30  How do I stay up to date as an educator - a focus on resources available

### 12:30 - 13:00  Course Summary and wrap up

**Scientific Programme Committee:**
- Edward Miller, Health Education England, UK
- Amanda Pichini, Genomics England, UK
- Emma Tonkin, University of South Wales, UK

### 13:00 - 14:00  Lunch

### 14:00  Departures to Cambridge Train Station