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How to Teach Genomics: A Workshop for Nursing and Midwifery Educators

11 - 14 July 2022

Workshop Agenda

Start (BST)	Finish (BST)	Presenter details
Monday, 11 July 2022		
12:00	**13:00**	**Registration and lunch**
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

17:15	17:30	Comfort Break
17:30	**18:30**	**Session 3: Integrating genomics into education - challenges/opportunities** Aim of session: this interactive sessions will provide a refresher of important concepts relevant for nurses and midwives 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 particicpants to consider how to apply knowldge 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*

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 expereiences and learn from our mistakes - will include discussions on reaching your audience, what works best fact-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 senarios - 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 senarios**
		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 Ruskins 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		
09:00	**10:30**	**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
11:00	**12:30**	**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 resourses 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**