

NHGRI International Genomics Education Meeting (Aug 4-5, 2016)

Moving forward in the UK – Genetics-Genomics and nursing/midwifery education

Maggie Kirk and Emma Tonkin, at the Genomics Policy Unit, University of South Wales (USW), have been involved in developing and delivering genetics/genomics education for health professionals at the USW for many years. In addition, they have been involved in national and international efforts to raise awareness and promote the integration of genetics and genomics into health professional practice and education for two decades. For background see:

- <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3907026/> (Revision of UK genomics education framework for nurses).
- https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/215250/dh_131947.pdf (Report to Department of Health Nursing & Midwifery Professional Advisory Board).
- http://genomics.research.southwales.ac.uk/media/files/documents/2013-09-05/Genetics_Education-Nursing_Professions-needs_analysis_Final.pdf (Survey of UK nurse educators' needs)

TEACHING PROGRAMMES

Name/location of program: Genetic/genomics within various curricula - University of South Wales UK

Training, audience & goals: Primarily pre-registration nurse and midwives + Specialist Community Public Health Nurses and some overseas students wishing to practice in the UK

Training mode/materials (source of material): Mostly face-to-face. PowerPoints with animations and videos; unfolding case-scenarios with and without student role-play (from 1hr to all day); audience-response systems; patients and health professionals talking to students; student activities. Online resources used include those from the former NHS National Genetics Education Centre and now Genomics Education Programme (<https://www.genomicseducation.hee.nhs.uk/>), Telling Stories website (<http://www.tellingstories.nhs.uk/>), Learn.genetics (<http://learn.genetics.utah.edu/>), NHGRI (<https://www.genome.gov/>), Genetics Home Reference (<https://ghr.nlm.nih.gov/>), and Genetics Education Center (<http://www.kumc.edu/gec/>).

Training budget: OGBP in addition to staff salaries

Number of trainees and training staff: approx. 300 trainees per year. Two staff

Evaluation: Some on the day evaluation (e.g. preferences for style of session); knowledge checks through short quiz during session or in subsequent sessions. Minimal inclusion in exams to test knowledge. Other evaluation in line with USW quality framework.

Name/location of program: PgDip Genomic Medicine and Healthcare. Delivered by Diploma MSc in partnership with the University of South Wales UK <http://www.diploma-msc.com/diploma-in-genomic-medicine-and-healthcare>

Training, audience & goals: International and interdisciplinary: General and Specialist Medical Practitioners, Nurses, Midwives and Allied Health Professionals also those with related undergraduate degrees (e.g. Dietetics, Biomedical Science, Pharmacy).

Training mode/materials (source of material): Entirely online, case/problem based learning.

Training budget: Funded through course fees

Number of trainees and training staff: Launching Sept 2016 (2 cohorts per year). Aiming for ~10 students in first intake. 1 tutor/10-15 students

Evaluation Plans: Assessed individual and group work, and module exams all contribute to final mark. Student satisfaction survey for general course evaluation.