Developing Genomics Literacy in Nursing Practice Across Maryland

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**Background**
- Genetics and genomics is revolutionizing healthcare
- Evidence indicates today’s nursing workforce lacks resources, knowledge and skills in this field
- Must prepare nursing students at the prelicensure and graduate level to deliver genomic care
- Challenged by a lack of nursing school faculty trained in genetics and genomics AND dearth of robust continuing education in this area

**Objectives**
- Engage practicing nurses in community of learning in genetics and genomics
- Provide opportunities for nurses to learn about genetics and genomics
- Increase nurses and nursing student knowledge, skills and competencies in genetics and genomics

**Development**
- Nurse Support II Program, funded by the Maryland Higher Education Commission 1-year planning grant awarded
- Developed academic-practice partnership with the Johns Hopkins McKusick-Nathans Department of Genetic Medicine
  - Intrinsically interprofessional
  - Invited nurses, faculty and nursing students to participate in the Genetics and Genomics Community of Practice (CoP)

**Methods**
- Plan a Nursing Genetics and Genomics Community of Practice (CoP)
  - Invited faculty participants from all schools of Nursing in Maryland via Deans and Directors List Serve
  - Invited nursing genetics experts and enthusiasts from Johns Hopkins Health System and National Institutes of Health
  - Invited non-nurses including medical geneticists, genetic counselors and pharmacists to participate
  - Plan continuing education opportunities for nurses to learn about genetics and genomics
  - Assessed literature and web resources to identify genetics and genomics education opportunities
  - Developed “Conversations in Genetics in Webinar Series”

**Results**
- Genetics and Genomics CoP “stats”
  - Launched in September 2020
  - Participants from 11 Schools of Nursing in Maryland
  - 58 current members, including practicing nurses, nursing school faculty, and nursing students at all levels
- Current CoP projects:
  - Development of genetics and genomics curated resource list
  - Development of genetics and genomics education modules on Cystic Fibrosis and Sickle Cell Disease for use in Schools of Nursing
  - Genetics and genomics educational resources website
  - “Conversations in Genetics” Webinar Series
  - Extensive participation from CoP members and healthcare community
  - Webinar participants' background shows a diverse group consisting of nursing students, faculty at all levels, practicing and retired nurses

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<tr>
<th>Topic</th>
<th>Attendees</th>
<th>Month 2020-2021</th>
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<tr>
<td>Genetics and Genomics</td>
<td>43</td>
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<td>What We Say Matters</td>
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<td>Engaging Nurses in Genetics</td>
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<td>the Future is Here</td>
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<td>Genetics and the Newborn Screen</td>
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<td>Using Genetics in Clinical Cardiology Practice</td>
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<td>Demystifying Genetic Testing</td>
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**Figures**
- The material presented was relevant to my practice.
- Did this webinar contribute to your knowledge of the topic?
- Did this webinar increase your confidence in seeking out genetics resources...
- The webinar format was instructive and engaging.
- I would be interested in attending more genetics webinars.

**Conclusions**
- Nurses in Maryland are eager to learn more about the field of genetics and genomics and its application to clinical practice
- Community of Practice is an effective method to engage nurses on this topic
- Continuing education opportunities are desired by nurses in this area