

DEVELOPING ENGAGEMENT STRATEGIES FOR GENOMICS-INFORMED NURSING

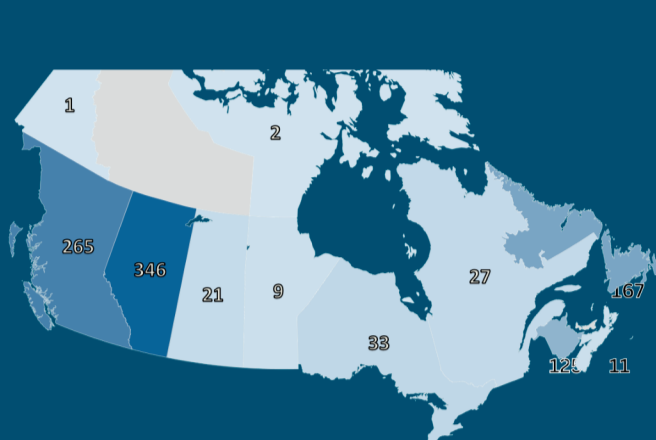
Given the rapid advancements in genomics, identifying nurses' knowledge levels, attitudes, confidence, adoption and engagement was needed to guide future education and research.

THE GENETICS AND GENOMICS IN NURSING PRACTICE SURVEY (GGNPS-CA) STUDY

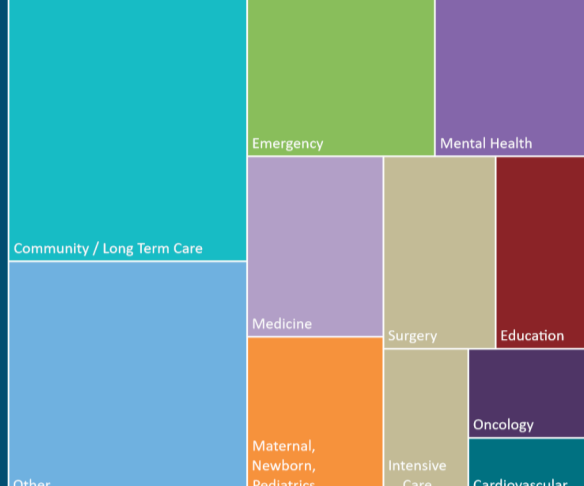
Nurses from Canada were invited to complete the Canadian adaptation of the GGNPS (GGNPS-CA) and 1013 responded. Of these, 73% actively take care of patients.

After completing the survey, nurses were given their knowledge score and invited to complete two online learning modules to improve their understanding of genomics-informed care.

The survey data provide a benchmark of nurses' attitudes, receptivity, confidence, competency, knowledge, and decisions related to the use of genetics and genomics in practice.

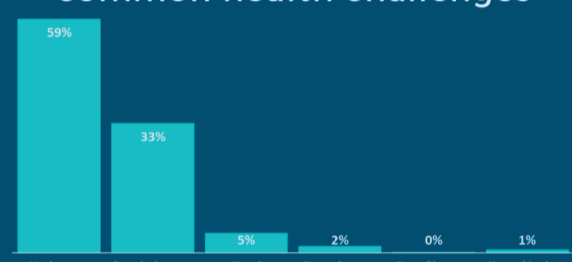


Primary Field of Practice



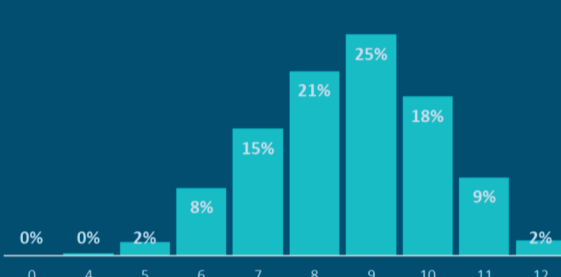
WHAT WE LEARNED

Nurses ranked the importance of education on genetics and common health challenges



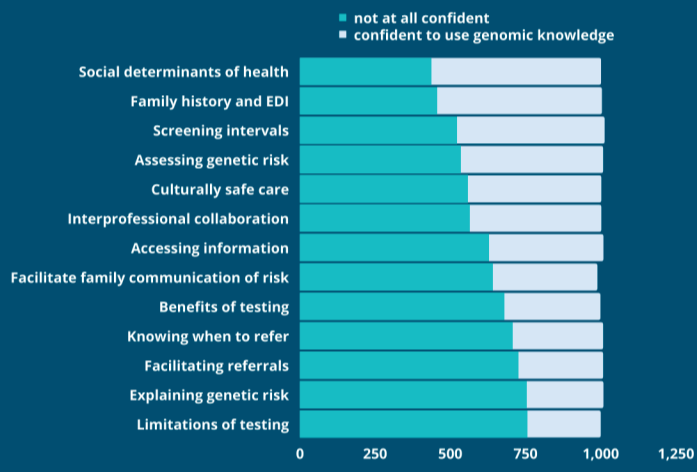
Nurses understand the importance of education in genomics, and how genomics-informed nursing practice can create advantages to patients such as improved treatment decisions.

Average KS = 8.59/12



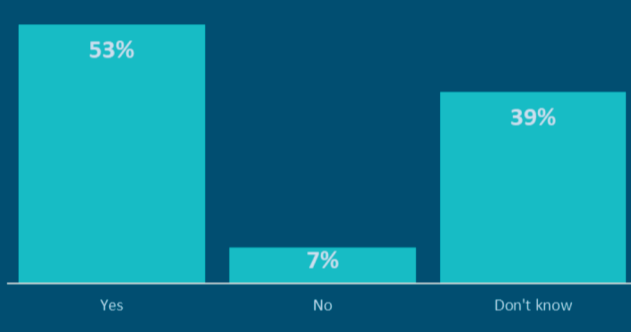
Nurses who had received education in genomics, or who worked in research, teaching, oncology or mental health, had the highest knowledge scores.

Confidence Scores



While nurses' genomic knowledge scores were moderate, their confidence to use genomics in practices, such as assessing inherited disease risk and facilitating referrals was low. Nurses were most confident to consider the social determinants of health and diversity when interpreting the family health history.

Intent to learn about genetics



Most nurses did not receive education on genomics in nursing school or since graduation. However, most nurses intend to learn more, and would attend education if provided.

ONLINE LEARNING

- About 20% of nurses joined one or more of the learning modules.
- Nurses with higher confidence and knowledge scores were more inclined to use the online learning modules.
- This suggests that knowledge and confidence influence nurses' receptivity for continuing genomics education.

NURSES' STRENGTHS IN SOCIAL JUSTICE CAN ADVANCE GENOMICS-INFORMED PRACTICE



- Nurses recognize the importance of considering access to the social determinants of health, equity and ethics when integrating genomics into practice.
- This is an important perspective given the equity and ethical issues associated with genomics.

CONCLUSIONS

- Nurses recognize the importance of including genomics in health related decisions and how this can lead to advantages for patients.
- They have not yet received adequate education to support their use of genomics in clinical care.
- They are ready and willing to learn.
- Nurses understand that promoting equity diversity and inclusion (EDI) in genomics-informed care can advance health for all.



NEXT STEPS



The survey results will be used to develop policy, education and research to support nurses to develop genomics literacy and deliver genomics-informed practices.



Support provided by IDEA to Impact: Knowledge Mobilization Fund
Athabasca University



Scan this code for opportunities to engage and help shape the future of genomics-informed nursing in Canada.

Scan this code to watch the online learning modules used in this study.

www.nursingandgenomics.com