Health Literacy & Precision Medicine: A Nursing Perceptive

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Communication: Clear & Concise

Health Literacy

Precision Medicine

Clinical Practice

Columbia University Medical Center
Precision Medicine

*The effect of cardiac genetic testing on psychological well-being and illness perceptions.*
Hickey KT¹, Sciacca RR², Biviano AB³, Whang W³, Dizon JM³, Garan H³, Chung WK⁴.

*Cardiac genetic testing: a single-center pilot study of a Dominican population.*
Hickey KT¹, Taylor JY, Sciacca RR, Aboelela S, Gonzalez P, Castillo C, Hauser N, Frulla A.
The Need for Cardiac Competencies

Key Content Areas:

- Primer on Genetics to More Advanced Concepts
- Patterns of Inheritance and Family Pedigrees
- Genome-Wide Association Studies
- CVD and Stroke Risk Prediction
- Pharmacogenetics
- Privacy
- Glossary and Reference Material
Dissemination of the AHA Competencies

- 1st half day boot camp at the AHA annual meeting:
  - Watch a series of 16 “prep” videos prior to boot camp,
  - Pedigree analysis,
  - Next-generation sequencing and interpretation of novel rare variants,
  - Personal genomics and interpretation of common variants,
  - Pharmacogenetics.
Precision Medicine Recommendations

Create and evaluate easy to use accessible web-based, tailored genomic tools.

Evaluate genomic health literacy resources for members of the public that are appropriate for diverse, socioeconomic, educational, health literacy and cultural backgrounds.

Advocate for recruitment, consent and access to personal genomic information that aligns with each person’s preference.
Health Literacy & Precision Medicine

Genetically trained professionals have been instrumental in:

– Taking comprehensive 4-generation family pedigrees,
– Ordering diagnostic testing,
– Recognizing “red flags” and phenotypes of various genetic conditions,
– Providing counseling, and education,
– Support to patients and families.
The Importance of Health Organizations

[Logos of various health organizations]
Atrial Fibrillation Town to Genome Town
Health Literate Communication in the Era of Personalized Medicine

- Competencies
- Partnership: Patients & the Public
- mHealth & Media
- Integration of information into the EHR
- Advances in Technology
- Ethical, Social, & Legal Implications