Support for Faculty Teaching Informatics

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Conflicts of Interest and Disclosures

- The presenter is current president of the American Nursing Informatics Association (ANIA).

- The presenter is one of the authors of a faculty toolkit that ANIA is in the process of completing and will be available for purchase in fall 2023 in the Online ANIA store at https://my.ania.org/eweb/DynamicPage.aspx?Site=ANIA&WebCode=COEPubSearch

Learning objectives

- Articulate the importance of resources and tools available for faculty.
- Differentiate between reputable sources of information about informatics.
- Develop a plan for increasing comfort with informatics content.

Background

- Organization named CARING formed for nurses to undertake the advancement of healthcare information in 1982 in DC area

- Informatics Nursing has been recognized as a specialty since 1992

- ANIA formed and allowed for informatic nurses to meet and network in Southern California in 1992

- First scope and standards for specialty in 1995

- CARING and ANIA merge in 2008

Problem

- Despite growth of the specialty, there is still a lack of faculty experts or faculty with advanced informatics degrees teaching in graduate programs (Bove & Sauer, 2023; Wilson et al., 2020).

- ANIA's mission: To advance nursing informatics through education, research, and practice in all roles and settings (American Nursing Informatics Association, n.d.).

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Alliance for Nursing Informatics

- Gap identified related to faculty teaching informatics
- As an organization – ANIA decided to focus on graduate programs

Basics

- Prepare for courses as well as to use in courses
  - Basic computer skills
  - Word processing skills
  - Spreadsheets
  - Basic Informatics terminology

Informatics Nurse Competencies

- Examples of skills needed for informatics nurses
  - Documenting data using a variety of data visualization tools
  - Developing report criteria
  - Designing educational material
  - Troubleshooting

Data Management

- Informatics Nurses need to know how to
  - Analyze the data
  - Utilize data from within the electronic health record (EHR)
  - Carry out data mining
  - Perform data sharing
  - Use data visualization to gain insights
  - Maintain compliance and integrity

Data Sets

- Data sets available free for use
  - HealthIT.gov
  - Data.gov
  - Pain data set (not real patients)

Quality and Safety

- Tied closely to informatics
  - Data collection
  - Quality measurements
  - Technology
  - Tools within EHR

Project Management

- Quality improvement initiatives
  - Use project management skills
  - System Design Life Cycle (SDLC)
  - Develop project plan and timelines

Sources of Information

- Reputable sources
  - Government websites
  - Professional informatics organizations
  - Who is the author?
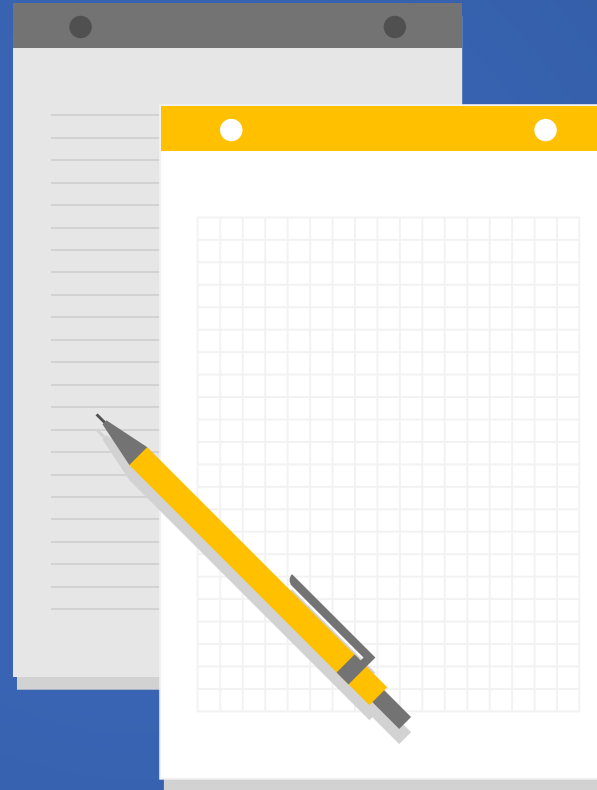 - Are they an expert?
  - What credentials do they have?

Trends

- Current and future trends
  - Informatics changes rapidly
  - How do you stay current?
  - Cybersecurity, genomics, artificial intelligence, etc.

Develop a Plan

- Increase comfort
  - Self-assessments
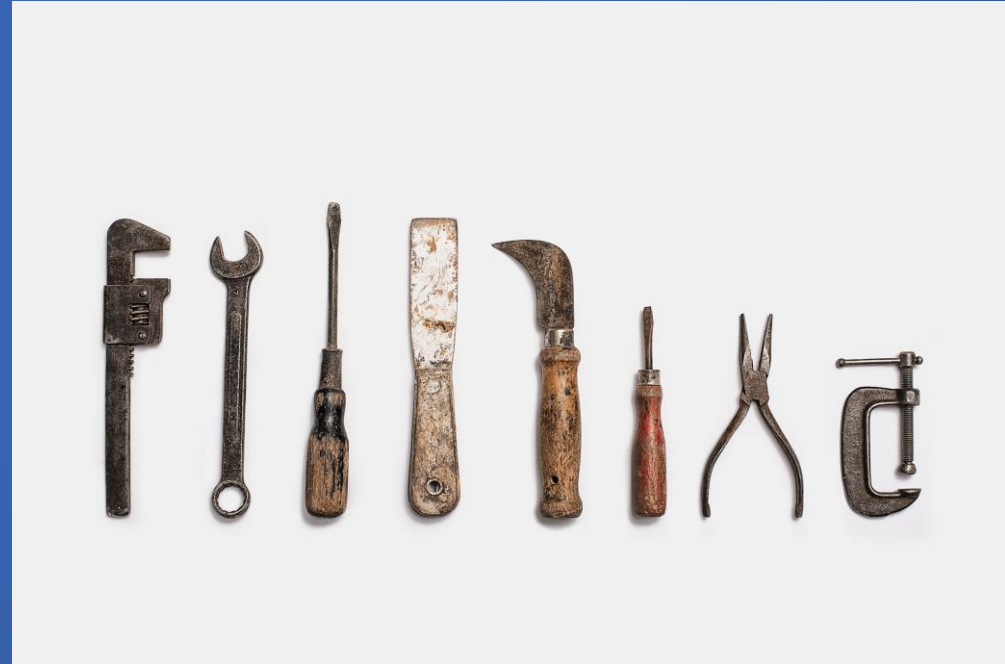 - Practice with data

Stay Current

- Methods
    - Join professional organizations
    - Read literature
    - Attend conferences
    - Listen to podcasts
    - Join Listservs

Conclusion

- Many tools and resources are available
- Reach out to informatics professionals
- Attend conferences

References

- American Nursing Informatics Association. (n.d.). *About us*. https://www.ania.org/about-us

- Bove, L., & Sauer, P. (2023). Nursing faculty informatics competencies. *Computers, Informatics, Nursing, 41*(1), 18-23. https://doi.org/10.1097/CIN.0000000000000894

- Wilson, M.L., Elias, B.L., & Moss, J.A. (2020). Education in nursing informatics. In: E.S. Berner (Ed.), *Informatics education in healthcare*. Springer.

Free Tools and Resources

- Data sets available at:
  - HealthData.gov https://healthdata.gov/
  - Data.gov
  - Pain data set (not real patients)
- Informatics self assessments and competencies at:
  - https://nursing-informatics.com/niassess/plan.html
- Microsoft Office tutorials at:
  - GCF Free https://edu.gcfglobal.org/en/subjects/microsoft-office/
  - Microsoft at https://support.microsoft.com/en-us/training

What questions do you have?

Thank you!

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