Application Of Data To Problem-Solving NURS 6051

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Discussion: The Application Of Data To Problem-Solving

In the modern era, few professions do not to some extent rely on data. Stockbrokers rely on market data to advise clients on financial matters. Meteorologists rely on weather data to forecast weather conditions, while realtors rely on data to advise on the purchase and sale of property. In these and other cases, data not only helps solve problems, but adds to the practitioner's and the discipline's body of knowledge.

Of course, the nursing profession also relies heavily on data. The field of nursing informatics aims to make sure nurses have access to the appropriate date to solve healthcare problems, make decisions in the interest of patients, and add to knowledge.

In this Discussion, you will consider a scenario that would benefit from access to data and how such access could facilitate both problem-solving and knowledge formation.

To Prepare:

- Reflect on the concepts of informatics and knowledge work as presented in the Resources.

- Consider a hypothetical scenario based on your own healthcare practice or organization that would require or benefit from data access/collection, and application. Your scenario may involve a patient, staff, or management problem or gap.

By Day 3 Of Week 1

Post a description of the focus of your scenario. Describe the data that could be used and how the data might be collected and accessed. What knowledge might be derived from that data? How would a [nurse leader use clinical reasoning and judgment](#) to form knowledge from this experience?

By Day 6 Of Week 1

Respond to at least two of your colleagues* on two different days, asking questions to help clarify the scenario and application of data, or offering additional/alternative ideas for applying nursing informatics principles.

*Note: Throughout this program, your fellow students are called colleagues.

Submission and Grading Information

Discussion Resources

Required Readings

McGonigle, D., & Mastrian, K. G. (2017). Nursing informatics and the foundation of knowledge (4th ed.). Burlington, MA: Jones & Bartlett Learning.

- Chapter 1, "Nursing Science and the Foundation of Knowledge" (pp. 7–19)

- Chapter 2, "Introduction to Information, Information Science, and Information Systems" (pp. 21–33)

- - Chapter 3, "Computer Science and the Foundation of Knowledge Model" (pp. 35–62)

Nagle, L., Sermeus, W., & Junger, A. (2017). Evolving Role of the Nursing Infomatics Specialist. In J. Murphy, W. Goosen, & P. Weber (Eds.), Forecasting Competencies for Nurses in the Future of Connected Health (212-221). Clifton, VA: IMIA and IOS Press. Retrieved from https://serval.unil.ch/resource/serval:BIB_4A0FEA56B8CB.P001/REF

Sweeney, J. (2017). Healthcare informatics. Online Journal of Nursing Informatics, 21(1).

Required Media

Laureate Education (Producer). (2018). Health Informatics and Population Health: Trends in Population Health [Video file]. Baltimore, MD: Author.

Accessible player –Downloads– Download Video w/CC Download Audio Download Transcript

Credit: Provided courtesy of the Laureate International Network of Universities.

Public Health Informatics Institute. (2017). Public Health Informatics: "translating" knowledge for health [Video file]. Retrieved from https://www.youtube.com/watch?v=fLUygA8Hpfo

Assignment: The Nurse Leader As Knowledge Worker

The term "knowledge worker" was first coined by management consultant and author Peter Drucker in his book, The Landmarks of Tomorrow (1959). Drucker defined

knowledge workers as high-level workers who apply theoretical and analytical knowledge acquired through formal training to develop products and services. Does this sound familiar?

Nurses are very much knowledge workers. The ways that knowledge can be acquired have changed since Drucker's time. Application of Data to Problem-Solving NURS 6051

The volume of data that can now be generated and the tools used to access this data have evolved significantly in recent years and helped healthcare professionals (among many others) to assume the role of the knowledge worker in new and powerful ways.

In this Assignment, you will consider the evolving [role of the nurse leader and how this evolution has led nurse leaders to assume the role of the knowledge worker](). You will prepare a PowerPoint presentation with an infographic (graphic that visually represents information, data, or knowledge. Infographics are intended to present information quickly and clearly.) to educate others on the role of a nurse as a knowledge worker.

Reference: Drucker, P. (1959). The landmarks of tomorrow. New York, NY: HarperCollins Publishers.

To Prepare:

- Review the concepts of informatics as presented in the Resources.

- Reflect on the role of a nurse leader as a knowledge worker.

- Consider how knowledge may be informed by data that is collected/accessed.

The Assignment:

- Explain the concept of a knowledge worker.

- [Define and explain nursing informatics](#) and highlight the role of a nurse leader as a knowledge worker.

- Include one slide that visually represents the role of a nurse leader as a knowledge worker.

- Your PowerPoint should Include the hypothetical scenario you originally shared in the Discussion Forum. Include your examination of the data you could use, how the data might be accessed/collected, and what knowledge might be derived from that data. Be sure to incorporate feedback received from your colleagues' responses.

By Day 7 Of Week 2

Submit your completed Presentation.

Submission and Grading Information

To submit your completed Assignment for review and grading, do the following:

- Please save your Assignment using the naming convention "WK2Assgn+last name+first initial.(extension)" as the name.

- Click the Week 2 Assignment Rubric to review the Grading Criteria for the Assignment.

- Click the Week 2 Assignment link. You can also "View Rubric" for grading criteria from this area.

- Next, from the Attach File area, click on the Browse My Computer button. Find the document you saved as "WK2Assgn+last name+first initial.(extension)" and click Open.

- If applicable: From the Plagiarism Tools area, click the checkbox for I agree to submit my paper(s) to the Global Reference Database.

- Click on the Submit button to complete your submission.