Technology Support for Caregivers of Older Adults: Exploring Gerontechnology and Health Policy/Research Implications

Overview of Teaching Strategy

This teaching strategy introduces students to a new interprofessional field of study called gerontechnology, an interprofessional academic and practice-based field combining gerontology and technology. Sustainability of an aging society depends on effectively creating technological environments that encompass the use of assistive technologies and inclusive designs for innovative and independent living. Such environments promote social participation of older adults in physical activity and the cognitive stimulation needed for healthy aging. In short, gerontechnology concerns the matching of technological environments to health, housing, mobility, communication, and the leisure and work of older people.

The teaching strategy will assist students to experience the core values of the National League for Nursing, which are caring, integrity, diversity, and excellence. Definitions of the core values are found at http://www.nln.org/about/core-values. The learning activities in this teaching strategy can be used for undergraduate and graduate students, separately or together. The teaching strategy can also be used as interprofessional activities to engage students from nursing, medicine, social work, physical therapy, and pharmacy as they brainstorm ideas about public health policy and research related to gerontechnology and learn about, from, and with each other. The learning activities can be used in class or online.

Learning Objectives

Students will:

• Identify the purpose and research initiatives connected to the interprofessional field of gerontechnology.
• Utilizing the Aging in Place Model, explore possible research studies that could be generated using this model.
• Based on the World Health Organization’s initiatives on assistive technology and aging in place, discuss research priorities and potential health care policies.
Learner Pre-Work

Students can watch the following videos:

- Preparing the healthcare workforce to deliver the digital future. [https://www.youtube.com/watch?v=zIBoOIITkDDA](https://www.youtube.com/watch?v=zIBoOIITkDDA)
- Introduction to Gerontechnology: Part 1. [https://www.youtube.com/watch?v=Y1T6qZOL_TQ](https://www.youtube.com/watch?v=Y1T6qZOL_TQ)
- Introduction to Gerontechnology: Part 2. [https://www.youtube.com/watch?v=u5fje7M4DYM](https://www.youtube.com/watch?v=u5fje7M4DYM)
- Introduction to Gerontechnology: Part 3. [https://www.youtube.com/watch?v=YlOhgYqKgkA](https://www.youtube.com/watch?v=YlOhgYqKgkA)
- Introduction to Gerontechnology: Part 4. [https://www.youtube.com/watch?v=Arr9E5v3SuA](https://www.youtube.com/watch?v=Arr9E5v3SuA)

Suggested Learning Activities

1. Interprofessional research activity
   a. Examine the new discipline called **gerontechnology**.
   b. Describe the professional organization and its mission.
   c. Identify the disciplines that participate in the organization.
   d. Discuss research initiatives or recent findings related to gerontechnology.
   e. Describe a possible research study that could be accomplished in the local community.

2. Health care policy activity
   a. Study the World Health Organization’s initiatives on assistive technology and aging in place.
      o Assistive technology [https://www.who.int/news-room/fact-sheets/detail/assistive-technology](https://www.who.int/news-room/fact-sheets/detail/assistive-technology)
      o Global cooperation on assistive technology [https://www.who.int/phi/implementation/assistive_technology/phi_ga](https://www.who.int/phi/implementation/assistive_technology/phi_ga)
      o Aging and health [https://www.who.int/news-room/fact-sheets/detail/ageing-and-health](https://www.who.int/news-room/fact-sheets/detail/ageing-and-health)
      o Global strategy and action plan on aging and health [https://www.who.int/ageing/global-strategy/en/](https://www.who.int/ageing/global-strategy/en/)
   b. Describe the two different initiatives and the overlap between the initiatives.
   c. Discuss the research priorities for assistive technologies.
   d. Identify potential health care policies for developed and developing countries.
   e. Describe the role of the United States in the World Health Organization as it relates to assistive technology.
3. Theory activity
   a. Study Figure 1 below.
   b. What possible research studies could be designed using the model?
      o Select a technology to assist aging in place
      o Outline how to implement the gerontechnology
      o Identify appropriate outcome measurements using the model.

Figure 1. Aging in Place with Gerontechnology.


Suggested Reading


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