

Domain 8: Informatics and Healthcare Technologies

Sub-competency	Progression Indicators (Observable Behaviors)	
	Developing	Developed (Competent)
8.1 Describe the various information and communication technology tools used in the care of patients, communities, and populations.		
8.1a Identify the variety of information and communication technologies used in care settings.	Recognize commonly used information and communication technologies in clinical settings. Explain the fundamental purpose of each identified technology.	Describe the primary information and communication tools used in patient care. Compare the features and benefits of different information and communication technology (ICT) options for specific care tasks.
8.1b Identify the basic concepts of electronic health, mobile health, and telehealth systems for enabling patient care.	Describe the fundamental features of electronic health, mobile health, and telehealth systems. Explain how electronic health, mobile health, and telehealth systems support patient care.	Demonstrate appropriate use of electronic health, mobile health, or telehealth systems in patient care. Compare and contrast the benefits and limitations of various electronic health, mobile health, and telehealth solutions in clinical contexts.
8.1c Effectively use electronic communication tools.	Identify electronic communication tools utilized in clinical interactions. Demonstrate fundamental use of electronic communication tools during patient care.	Demonstrate fluent use of electronic communication methods. Apply appropriate electronic communication tools in diverse healthcare settings when interacting with patients and interdisciplinary team members.
8.1d Describe the appropriate use of multimedia applications in health care.	Identify commonly used multimedia applications in patient education. Articulate how multimedia applications enhance patient engagement and learning.	Assess the effectiveness of different multimedia tools for specific patient populations.
8.1e Demonstrate best practice use of social networking applications.	Articulate professional guidelines governing the use of social media in healthcare.	Analyze the ethical implications of social media use in patient-centered care. Demonstrate appropriate and professional use of social media in diverse healthcare settings.

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8.1f Explain the importance of nursing engagement in the planning and selection of healthcare technologies.	Identify processes involved in the selection of healthcare technologies. Explain the necessity of nurse input in selecting patient care technologies.	Analyze the impact of nursing engagement on the successful selection and implementation of healthcare technologies. Recommend specific criteria and characteristics for healthcare technology based on different care settings and patient populations.
8.2 Use information and communication technology to gather data, create information, and generate knowledge.		
8.2a Enter accurate data when chronicling care.	Identify essential documentation guidelines for accurate data entry.	Enter and verify comprehensive patient information for accuracy.
8.2b Explain how data entered on one patient impacts public and population health data.	Describe how individual patient records contribute to public and population health statistics.	Analyze the impact of individual patient documentation on population-level trends. Compare individual patient data for specific diagnoses with local and regional population data.
8.2c Use appropriate data when planning care.	Identify relevant clinical data required for effective care planning.	Incorporate relevant data and trends in plans of care.
8.2d Demonstrate the appropriate use of health information literacy assessments and improvement strategies.	Explain key strategies for enhancing a patient's health information literacy.	Recommend strategies to improve health information literacy among diverse populations.
8.2e Describe the importance of standardized nursing data to reflect the unique contribution of nursing practice.	Explain how standardized nursing data ensures that patient care assessments, interventions, and outcomes are measurable.	Examine the role of standardized documentation in enhancing the visibility and quantifiability of nursing contributions.
8.3 Use information and communication technologies and informatics processes to deliver safe nursing care to diverse populations in a variety of settings.		
8.3a Demonstrate appropriate use of information and communication technologies.	Identify examples of adherence to HIPAA and other privacy standards when utilizing information and communication technologies. Recognize how cultural, linguistic, and health literacy differences influence the selection and use of communication technologies.	Apply appropriate technologies for delivering nursing care in various settings. Integrate clinical decision support tools to enhance care quality and safety.

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8.3b Evaluate how decision support tools impact clinical judgment and safe patient care.	Explain the ethical implications of over-reliance on decision-support tools and their effect on critical thinking and clinical judgment. Identify the strengths and limitations of decision-support tools in clinical practice.	Analyze the correlation between decision-support tools and observable patient outcomes. Integrate decision-support tools with clinical observations and patient preferences to facilitate holistic care decisions.
8.3c Use information and communication technology in a manner that supports the nurse-patient relationship.	Provide examples of adherence to HIPAA and other privacy standards when engaging in electronic communication. Consider cultural, linguistic, and health literacy differences when selecting and using communication technologies.	Employ digital tools to communicate with patients regarding their health conditions, treatment plans, and self-care strategies.
8.3d Examine how emerging technologies influence healthcare delivery and clinical decision making.	Participate in training on emerging healthcare technologies. Engage in discussions regarding the ethical and practical implications of healthcare technology.	Analyze the successes and challenges associated with integrating technology into care delivery. Articulate the perspectives of healthcare teams on incorporating technological devices and platforms into clinical practice.
8.3e Identify impact of information and communication technology on quality and safety of care.	Identify patient safety and care quality metrics influenced by technology use. Recognize systems that monitor and track patient safety and care quality metrics.	Analyze ICT data to identify trends and outcomes related to patient safety and care quality. Use findings from ICT data to inform clinical decision-making to enhance care quality.
8.3f Identify the importance of reporting system processes and functional issues (error messages, mis-directions, device malfunctions, etc.) according to organizational policies and procedures.	Explain organizational policies and procedures for reporting system issues. Explain the relationship between system reporting processes and patient safety.	Demonstrate appropriate documentation and reporting of system issues according to institutional policies.

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8.4 Use information and communication technology to support documentation of care and communication among providers, patients, and all system levels.		
8.4a Explain the role of communication technology in enhancing clinical information flows.	Describe the various communication technologies utilized in healthcare settings.	Articulate the benefits and limitations of information and communication technologies in enhancing communication among healthcare providers and between providers and patients.
8.4b Describe how information and communication technology tools support patient and team communications.	Explain the role of information and communication technologies in improving the accuracy and efficiency of information exchange within the healthcare team.	Explain how ICT tools enhance communication efficiency, reduce errors, and improve patient safety.
8.4c Identify the basic concepts of electronic health, mobile health, and telehealth systems in enabling patient care.	Describe the core functionalities of the electronic health used in clinical settings.	Differentiate between the applications of electronic health, mobile health (mHealth), and telehealth in patient care, highlighting the benefits and limitations of each.
8.4d Explain the impact of health information exchange, interoperability, and integration on health care.	Define health information exchange, interoperability, and integration, and describe their influence on healthcare delivery.	Analyze the impact of health information exchange on patient safety, care coordination, and healthcare efficiency.
8.5 Use information and communication technologies in accordance with ethical, legal, professional, and regulatory standards, and workplace policies in the delivery of care.		
8.5a Identify common risks associated with using information and communication technology.	Recognize potential breaches in patient confidentiality related to electronic health records.	Explain the importance of adhering to organizational policies regarding password management, data encryption, and secure messaging to protect patient information in compliance with HIPAA regulations.
8.5b Demonstrate ethical use of social networking applications.	Identify risks associated with sharing patient information or discussing work-related issues on social media platforms, emphasizing the importance of maintaining professional boundaries and patient privacy.	Apply professional guidelines and institutional policies for responsible social media use to protect patient confidentiality and uphold the integrity of the nursing profession.
8.5c Comply with legal and regulatory requirements while using communication and information technologies.	Follow institutional policies for accessing and documenting patient information in EHRs,	Explain the legal and ethical implications of electronic patient data sharing, emphasizing HIPAA

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	ensuring compliance with privacy and security protocols.	regulations and obtaining patient consent before disclosing health information.
8.5d Educate patients on their rights to access, review, and correct personal data and medical records.	Provide educational materials explaining patients' rights to access, review, and manage their health information.	Assist patients in navigating patient portals to access their health data and answering questions about system functionalities and benefits.
8.5e Discuss how clinical judgment and critical thinking must prevail in the presence of information and communication technologies.	Recognize the limitations of information and communication technologies and seek clarification or validation from other sources when necessary.	Explain how clinical judgment and critical thinking are essential for interpreting EHR data, identifying potential errors, and making informed patient care decisions.
8.5f Deliver care using remote technology.	Assist in telehealth visits, ensuring proper equipment setup, lighting, and audio while troubleshooting technical issues.	Facilitate telehealth visits effectively by using appropriate communication techniques, utilizing platform features to share educational materials, and documenting encounters accurately in the electronic health record.