

**Case Study (Group Work): Data, Information, Knowledge, Wisdom (DIKW) Analysis in a Real-World Information System**

- Select a simple information system used in clinical setting (e.g., glucometer or physiologic monitor)
- Identify the purpose of the system and the clinicians who use it.
- Describe how data are captured and displayed, including the timeframe in what data are collected, how and where data are stored, and how data are displayed.
- Identify the strengths and weaknesses of the process to obtain the data, including risks for error in obtaining data. Explain potential reasons for unintended consequences and anticipate potential work-arounds that could threaten patient safety when the system is used incorrectly.
- Describe the knowledge synthesis required to transform these data into information then knowledge to arrive at a clinical decision. Provide a clinical example.
- Explore how wisdom- clinical experiences and expertise- guide clinicians to implement appropriate interventions when analyzing the data and information the system generates. Explain how wisdom influences nursing practice.
- Your summary should be no more than 3 pages, excluding the title and reference pages.
- One group consist of 1-3 students. The following words must be written on the cover page “XX, XX and XX contributed equally to the paper”, one submission per group under Assignment, Blackboard, **due Nov. 18 11:59CST**.

### Grading Rubric

| <b>Criteria</b>                | <b>Below Expectations</b>                                                                                                                                                        | <b>Needs Improvement</b>                                                                                                                                                            | <b>Meets Expectations</b>                                                                                                                                    | <b>Exceeds Expectations</b>                                                                                                                                                                                                                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Structure & organization (30%) | (0-15 Points)<br><br>Unclear or inappropriate organization of ideas. Lack of structure or continuity of information. Few or no transitions.                                      | (16-29 Points)<br><br>Paper is difficult to follow as there is limited continuity and ineffective transitions.                                                                      | (30-49 Points)<br><br>Content organized in general, but some ideas could be more logically developed. Transitions are mostly appropriate.                    | (50-60 Points)<br><br>Logical sequencing of information presented and well-developed ideas. All transitions are effective.                                                                                                                 |
| Content & Knowledge (60%)      | (68-72 Points)<br><br>All required components are not addressed. Discussion incomplete or inaccurate. Displays some reasoning but most ideas are underdeveloped and unjustified. | (74-84 Points)<br><br>All required components addressed, but inadequately. Displays some synthesis of ideas but analysis may lack clarity. Minor issues justifying recommendations. | (85-99 Points)<br><br>All required components addressed completely & accurately. Analysis is logical and inclusive. Well-reasoned and clear recommendations. | (100-120 Points)<br><br>All required components addressed clearly, completely and accurately; displays synthesis of ideas, in-depth analysis and justification of original thoughts; recommendations are well-reasoned, clear and logical. |
| Scholarly Writing (10%)        | No logical support of ideas. Frequent grammatical, sentence structure, spelling, and/or APA formatting errors.                                                                   | Indirect support of ideas. Multiple grammatical, sentence structure, spelling, and/or APA formatting errors.                                                                        | Sound, valid, and logical support of ideas. Rare or no grammatical, sentence structure, spelling or APA formatting errors.                                   | Clear, logical, well-supported, and innovative ideas. No grammatical, sentence structure, spelling, or APA formatting errors.                                                                                                              |