

Wk 1: Apply the concepts of data-information-knowledge-wisdom (DIKW) to a situation in your current practice area. Take that example one step further as you consider how nursing informatics can support or improve that transformation and your active role as an INS in the process.

(Please be aware that for the initial posting, to reach an acceptable level of performance, two scholarly sources must be presented. This is different from what you are used to in your core courses. Please take a look at the discussion guidelines and rubric below.)

All,

At my facility, we currently have a compliance issue with barcode medication administration (BCMA). When implemented and used correctly, BCMA promotes safe medication administration (Mulac et al., 2021). On the other hand, it may interfere with nursing autonomy and decrease expertise by assuming the rights of medication without nursing's conscious cognition (Hong et al., 2021; Sloss & Jones, 2021). Fortunately, these systems are intended to aid nurses in their clinical decision-making, not take over for them (Sloss & Jones, 2021). Informatics Nurse Specialists (INS) aid in BCMA usability and ensure accurate feedback.

In my facility's last informatics meeting, we discussed errors in the self-service reporting tool that aids nurses in evaluating their "scores" in BCMA compliance (as well as many other nursing impact points). Our tools cannot provide relevant knowledge and feedback for the improvement process without the proper application of data and information. We discovered that the data collected was not being processed as intended (only as instructed). Luckily, we identified and rectified the issue to provide more accurate feedback scores.

In rectifying the accuracy, we promote confidence in the scores and hope to improve compliance, intention to use, and perceptions of the tool, which aid in increasing BCMA compliance (Puritt et al., 2023).

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Hong, J. Y., Ivory, C. H., VanHouten, C. B., Simpson, C. L., & Novak, L. L. (2021). Disappearing expertise in clinical automation: Barcode medication administration and nurse autonomy. *Journal of the*