Nursing Staff's Role in Detecting Urinary Tract Infection in Nursing Homes: COLLEGE OF NURSING An Integrative Review Delgado, K. F., Roberson, D., & Haberstroh, A., & Wei, H

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Objectives:

Attendees will be able to:

- 1. identify two factors associated with increased rates of antibiotic use in nursing homes.
- describe two ways in which nursing staff influence the diagnosis and treatment of urinary tract infections in nursing homes.

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Background

- 65+ population projections: >87.9 million in U.S. in 2050
- 1.4 million U.S. Nursing homes (NHs) residents
- Inappropriate Antibiotic Use in NHs
- CMS' Final Rule Implementation

<u>Significance</u>

- Inappropriate antibiotic use
- Prescribers are often off-site; decision-making highly dependent on nursing staff observations
- U. S. NH frontline staff composition:
 - Less than 12% registered nurses (RNs)
 - 86% licensed practical/vocational nurses (LPN/LVNs)
 & certified nursing assistants (CNAs)





<u>Purpose</u>

To examine the state of the science related to NH nursing staffs' role in the detection of UTIs

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<u>Method</u>				
 PubMed, Scopus, CINAHL, and ProQuest; 2010-2020 	Figure 1. FERROLL The Diagnose Second changes Second			
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 Johns Hopkin's nursing and evidence- based practice guidelines (Dearholt & Dang, 2012) 	The desiration of the second o			

Results

- Elements of Antibiotic Stewardship in NHs
 - Professional RN training did not affect infection control practices
- · Nursing's Influence on Prescriptive Decision Making
 - Prescriber = expert who identified UTIs; based decisions on information from nurse who received information from CNA
- Nursing Staff's Antibiotic Stewardship Responsibilities
 - CNAs recognized signs & symptoms earlier



Discussion

- Without nursing support, prescribers limited on-site presence create barrier to effective prescribing
- LPNs are most common point of contact for prescribers, but rarely mentioned in the literature
- Literature failed to describe nursing staff's decisionmaking and associated factors related to the detection of UTIs, giving the impression that their contributions are undervalued





Implications

Future research must:

- Clarify nursing staff's role and decision-making r/t detection/identification of UTIs
- · Identify factors that influence decision-making
- Examine when and how nursing staff utilize protocols
- Establish foundation for nursing-led interdisciplinary interventions and evidence-based tools

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Limitations

- Predetermined inclusion criteria: licensed practical/vocational nurse, nurse, nursing
- Use of constant comparative method: other researchers may review the same articles and have varying views on quality and analysis

References

- Dearholt, S. L., & Dang, D. (2012). Johns Hopkins nursing evidence-based practice: Model and guidelines (2nd ed.). Sigma Theta Tau International.
- Delgado, K. F., Roberson, D., Wei, H., & Haberstroh, A. (2022). Nursing staff's role in detecting urinary tract infection in nursing homes: An integrative review. *Journal of Gerontological Nursing*, 48(5), 43-50. https://doi.org/10.3928/00989134-20220405-03 Whittemore, R., & Knafl, K. (2005). The integrative review: Updated methodology. *Journal of Advanced Nursing*, 52(5), 546-553. https://doi.org/10.1111/j.1365-2648.2005.03621.x
- Additional references furnished upon request

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