

Current Trends in School Nursing for Musculoskeletal Injuries and Concussions

Christoffer Amdahl, MD; Hans Drawbert, MD; Sadra Forati, DO; Joshua Allen, DO; Sana Qureshi, DO; Afsha Kaisani, MD

Background

- School nurses are on the front lines of assessing, identifying and treating school age children
- Nursing services in schools have previously demonstrated improved medical care costs for students, less productivity loss for parents, and less productivity loss for teachers
- Nursing services in schools provide a cost-beneficial investment of public money
- Musculoskeletal injuries and concussions are common injuries seen in school aged children

Aim Statement

- Provide evidence-based education sessions to school nurses in the Dallas-Fort Worth Metroplex on frequently encountered conditions and allow for implementation of interventions which enable school nurses to feel empowered to make change in their own practices

Methods

Participants

900 school nurses (LVN/LPN and RN)
36 school districts in DFW
Family Medicine and Orthopedic resident physicians

Education

Online modules
In-person lectures
Simulation cases

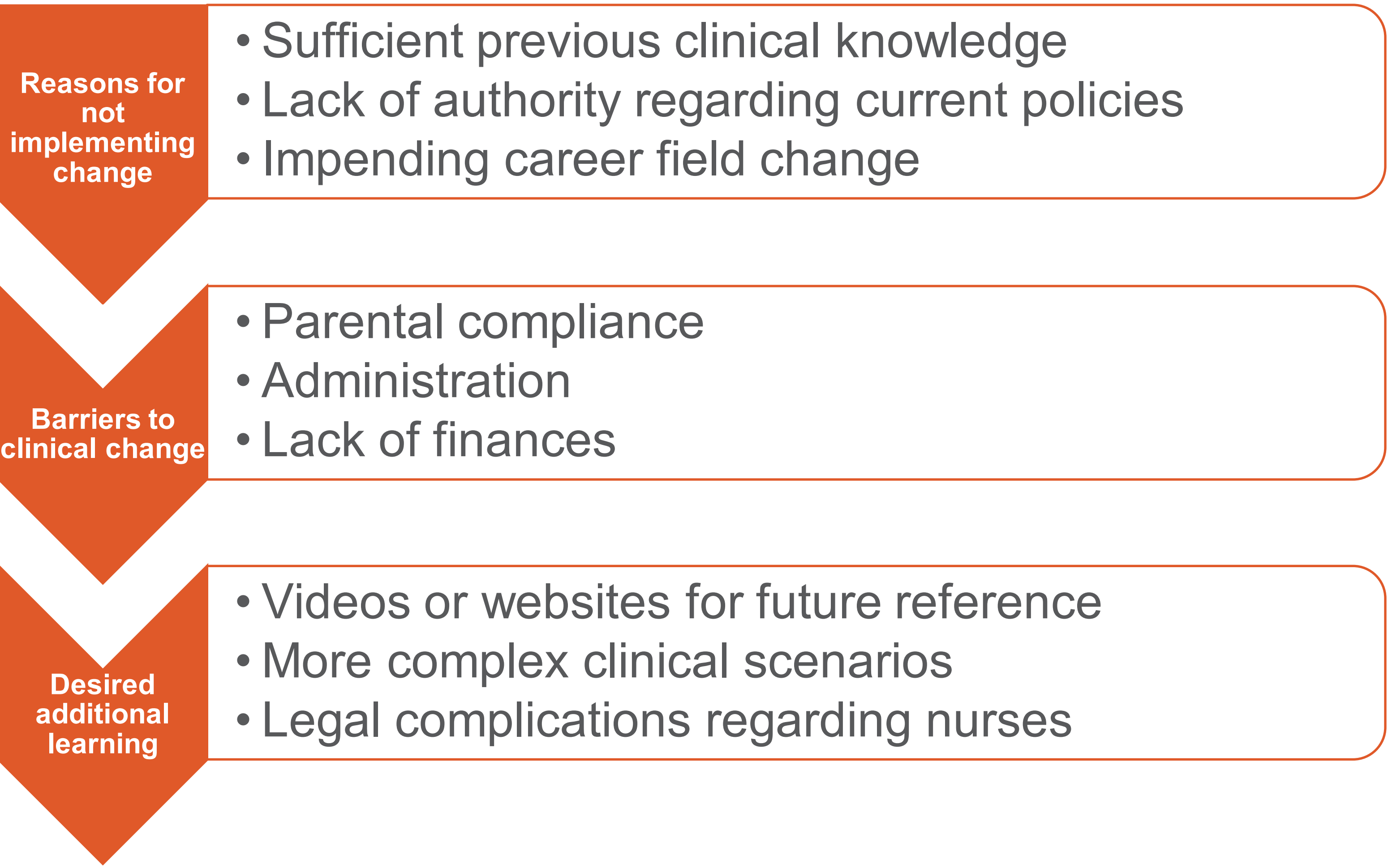
Timeline

08/23 – 03/24
25 sessions
Post-session surveys

Results

- Self-reported data from post-session surveys of participating nurses demonstrated 91.6% (632/690) *** of the participants reported that they would make changes to their clinical practice based on the educational sessions
- Additionally, information regarding other recommendations for educational opportunities and session content was synthesized into qualitative categories.

- Qualitative analysis of survey results



Discussion

- This educational protocol and community nurse outreach has a significant potential to improve nursing education and the lives of school-age children
- An outstanding majority of nurses responded positively to the educational sessions, and planned to implement clinical changes to their current practice
- This program has been implemented as a pilot program in other regions of hospitals such as the North Florida divisions and HCA Methodist in San Antonio ***

Quotes from the educational sessions

- “All speakers were very knowledgeable and answered all questions!”
- “Well organized and enjoyed the different speakers and topics.”
- “Loved this presentation today. All presenters were thorough and well spoken and super knowledgeable.”

Conclusion

- Educating nurses on common school age medical problems has had positively received by the vast majority who attended the educational sessions
- We will seek to continue to improve both nursing confidence in primary management of MSK and concussion related conditions, as well as increase the overall participation from community nurses in these educational sessions

References

COUNCIL ON SCHOOL HEALTH. Role of the School Nurse in Providing School Health Services. Pediatrics. 2016 Jun;137(6):e20160852. doi: 10.1542/peds.2016-0852. PMID: 27217476.

Shin, E.M., & Roh, Y.S. (2020, July 30). A School Nurse Competency Framework for Continuing Education. Healthcare, 8(3), 246. <https://doi.org/10.3390/healthcare8030246>

Wang LY, Vernon-Smiley M, Gapinski MA, Desisto M, Maughan E, Sheetz A. Cost-benefit study of school nursing services. JAMA Pediatr. 2014 Jul;168(7):642-8. doi: 10.1001/jamapediatrics.2013.5441. PMID: 24840710; PMCID: PMC9255385.

Muller-Juge V, Cullati S, Blondon KS, Hudelson P, Maitre F, Vu NV, et al. (2014) Interprofessional Collaboration between Residents and Nurses in General Internal Medicine: A Qualitative Study on Behaviours Enhancing Teamwork Quality. PLoS ONE 9(4): e96160. <https://doi.org/10.1371/journal.pone.0096160>

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