Improving Interprofessional Communications Across Transitions of Care for Patients with Stroke

Julia Blackburn, MSN, Karen Mutsch, DNP, Lynne Jensen, PhD, ARNP

Jimmi Hatton-Kolpe, Pharm D, Erika Erlanson, MD
University of Kentucky, Lexington, KY

INTRODUCTION

• Improving health outcomes related to stroke requires efficient and effective acute care, post-acute care, and care after discharge to home.
• Each transition is crucial to patient management, decreasing post-stroke complications and improving recovery.
• Effective care transitions may ultimately influence the Institute for Healthcare Improvement’s Triple Aim.
• Preliminary data collected from handoffs between a study and transfer site revealed deficiencies in the accuracy and completeness of the information communicated.

Purpose
To evaluate the effects of simulation on the communication of interprofessional teams from independent sites to improve transitions of care for patients with stroke with a secondary goal of developing an interprofessional handoff tool.

Research Question
Will interprofessional teams from different care facilities become more effective in communication and collaboration after participating in simulation to develop a handoff tool for patients with stroke?

Objectives
1. Examine the interprofessional team satisfaction with current transition of care and their assessment and significance of potential gaps.
2. Evaluate the impact of the simulation on interprofessional collaboration.
3. Design a new communication tool for care transitions following simulation.

METHODS

The teams comprised of medicine, nursing, physical and occupational therapy, speech and language pathology, pharmacy, psychology, nutrition, and care management at the study and transfer sites participated in a simulation model of enhanced communication.

• A mixed method approach was utilized with the participants using standardized patient transition of care simulations, and debriefings assessing participant feedback.
• A questionnaire was administered at the beginning to assess the team satisfaction with the existing care transition process, as well as assessment of the completeness of the handoff, and which team members should contribute to the transition of care.
• Quantitative data were obtained through the use of an adaptation of the Modified Interprofessional Collaborator Rubric (miCAR) (Curran et al., 2010) before simulation and after.

Study Design
A prospective, non-randomized assessment before and after intervention was conducted to answer the research question. The hypothesis of this study communication scores will significantly differ following participation in the simulation and development of the handoff tool.

Interprofessional teams from both sites assessed current handoff practice, identified its strengths and weaknesses, and developed a comprehensive tool for transitions of care (iKCATS). A second simulation was conducted to assess its impact on collaboration between interprofessional teams from independent care facilities.

RESULTS

Current Transition of Care Process Satisfaction
A four question survey was taken by 15 participants before simulation using the existing transition of care process between the two facilities.

- Do you think the current transition of care process for patients with stroke is comprehensive?

Nine of the fifteen participants reported they were unsatisfied with the current process while 6 reported they were satisfied. No participants indicated they were very satisfied or very unsatisfied with the current process.

Role Specific Contributions

Of the twelve disciplines identified as potential contributors to the handoff process, only nursing was consistently recognized as a current and ideal contributor participating in the transition of care.

Participants reported their perceived contributions of current and ideal contributors to the transition of care process.

Interprofessional Communication
A 13 question adaptation of the modified Interprofessional Collaborator Assessment Rubric was completed pre-simulation as a baseline and then after simulation 1 and 2.

mICAR Question 7 asking whether team members should share best practice or discipline-specific knowledge with others had a statistically significant increase in mean difference between simulation 1 and 2 with a p Value of 0.0149

CONCLUSIONS

There was enough evidence to suggest that the research question “Will interprofessional teams from different care facilities become more effective in communication and collaboration after participating in simulation to develop a handoff tool for patients with stroke?” was supported. There was statistically significant improvement in the question around sharing best evidenced based practice with others. In addition, all but one of means increased after the second simulation as compared to post simulation 1. It is possible with a larger sample size the effects could be statistically significant on greater number of questions.

The concept for a specific interprofessional handoff tool for patients with stroke if successful could be used as a proof of concept for modified tools to be developed for a wide range of disease processes and transfer settings.