Team Effort and Neonatal Resuscitation: An Education Project at Riverton Hospital

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PROJECT METHODOLOGY

The Team Effort educational program focuses on the application of teamwork education for all neonatal resuscitation providers (NRP) inclusive of the remote leader available via telehealth. An improved ability to function as a team can increase quality care and decrease error rate during a neonatal code when the teamwork education includes all team players. This program and its application will be shared freely to enhance effective lifesaving interventions included within the resuscitation guidelines as well as to improve provider satisfaction where ever neonatal resuscitation is administered.

A Team Effort and Neonatal Resuscitation Methodology

Step 1: Gather data regarding current state specific to neonates who have undergone a neonatal resuscitation inclusive of telehealth via electronic medical record using the Resuscitative Metrics Tool (RMT).

Step 2: Gather current state data utilizing the RMT in conjunction with direct observation of neonatal resuscitation by qualified neonatal resuscitation instructor.

Step 3: Conduct survey of current provider perception of teamwork using the self-assessment teamwork tool (SATT) Questionnaire.

Step 4: Initiate teamwork education for all providers including remote leaders. This education will be included as part of NRP Simulation training.

A Team Effort and Neonatal Resuscitation Evaluation

Effectiveness of teamwork education and the impact on the quality of care and performance satisfaction must be measured and compared to previous data.

Provider evaluations

- Provider evaluations using the SATT Questionnaire will be conducted following teamwork education to determine teamwork effectiveness.
  
  The survey will be administered following each neonatal resuscitation as part of the debriefing process (specification of the presence of a remote leader will be noted).

- Evaluations will be performed to determine compliance to NRP and quality of care. (Telehealth presence or absence will be specified with the data).

LITERATURE REVIEW

A review conducted to address the current literature identifies the impact of teamwork inclusive of a remote leader during neonatal resuscitation. Literature examined:

1. Team effectiveness during emergent events
2. Impact of remote leadership on quality care
3. Teamwork education content and outcome
4. Telehealth usage during neonatal resuscitations

REFERENCES


THEORETICAL FRAMEWORK

The Complex Adaptive System (CAS) supports the understanding of the complexities that are present during a neonatal resuscitation. Understanding the complexities and relationships between the various elements of a microsystem can the team in making adjustments to reach a desired goal.

In achieving the goals set out by this project, it is important to have a clear understanding of the elements involved.

Tuckman’s theory of team development identifies stages of teamwork and the specific behaviors of each stage. These behaviors either enhance or impede the functioning and goals of a team.

By utilizing Tuckman’s theory in teamwork education, the areas of dysfunction can be identified and resolved.

Behavioral styles that demonstrate highly effective teams will be the behaviors shaped for taught during the teamwork education.

CONCLUSIONS

Teamwork education in conjunction with NRP simulation inclusive of all team members, including the remote leader, will provide a framework of support for all NRP codes. This education and ongoing evaluation will serve to optimize provider care during a NRP code. A high functioning team can also attain a greater satisfaction in their performance which can also lead to greater job satisfaction.