BACKGROUND

• Children with congenital heart disease (CHD) are at risk for neurodevelopmental delays.15
• Neurodevelopment can be impacted by many factors including, sleep interruptions, limited holding, and reduced developmental stimulation.5-8
• We created an interdisciplinary inpatient neurodevelopmental care program to address these concerns.

RESULTS

• 619 admissions in 18 months
• CINCO utilization increased over time specifically with medical/nursing orders and caregiver handouts
• The volunteer program was initially delayed but grew rapidly with over 500 hours of developmental interaction

METHODS

• A, Electronic Medical Record Order Panel
  • QM: Only written orders of what got automatically put in Unit (orders not manually written orders)
  • DG: Also highlight orders on vital signs and assessment (vital signs from monitor only on oncology)
  • Nursing: SYSTEMatic behavior orders to encourage skin-to-skin holding and out-of-bed activities
  • Contact pharma to coordinate changing medications and growth charts with patient handoff
  • Post orders with patient handoff
  • Order assessments, vital signs, and care with hands or other needed areas

• B, Brochure Development Plans
  • 6.5-8 years of age

• C, Yellow Star Sticker on Patient Nurse Card and Caregiver Handout (CINCO) Marks for CINCO Volunteers

Figure 1: Illustrations of Selected CINCO Interventions

CONCLUSIONS

• A QI project was developed
• Stakeholders were interviewed and interventions were selected including medical/nursing orders, developmental kits, developmental plans, caregiver education and support, developmental care rounds, and a volunteer program
• 3 PDSA cycles were implemented
• Data was obtained from the EHR for patients aged 0-2 and admitted for >7 days

FUTURE CONSIDERATIONS

• Sustaining and improving implementations rates
• Ongoing provider and staff education
• Implementing more environmental care-based interventions including light/noise reduction
• Expand project with regards to health equity
• Add interventions for complex patients and ages 3-18
• Evaluate long term ND outcomes

DISCLOSURES

• No relevant disclosures
• IRB approval not required as a QI project

CITATIONS

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