Screening Pediatric Patients for Readmission Risk

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Screening Pediatric Patients for Readmission Risk

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Pediatric Readmission Costs

- Cost per event = $9,540
- Average yearly Medicaid claim for single complex patient = $69,906
- Nationwide annual cost (2015) = $1.5 Billion
- Increased risk for developing HAC
Case Management Standard of Care

“Case management is expected to have a defined method for screening/identification and assessment of patients in need of case management services”

**Screening/ Identification**
Through use of identification criteria, stratify patients at risk

**Assessment**
Expand on knowledge gained by screen and complementary to other disciplines’ assessments
Screening for Readmission Risk

Adult Screen Tools
- Modified LACE Tool
- Pra Risk Tool
- Cerner’s readmission stratification score
- HOSPITAL Score

Pediatric Screen Tools
Why Develop a Screen Tool?

Decrease:
- Readmissions
- Length of Stay
- ED Visits

Increase:
- Patient & Caregiver Satisfaction
- Compliance with national standards of practice & CMS regulations
QI Project Measures

**Outcome**
100% of admitted patients will have a screen complete within 24 hours of admission

**Process**
>85% reliability between Care Managers
Decrease average completion time
100% of fields completed within each entry

**Balancing**
Nurse Care Manager satisfaction
30-day readmission rate
Research Overview

Evaluate: Evaluate each category of tool for validity and reliability

Associate: Associate values based on statistical findings

Combine: Combine values to produce a total score

Identify: Identify high, moderate, and low risk based on score value

Validate: Cross validate findings
Study Demographics

- **Sample Size:** 5371 Patients
- **Duration:** 12 Months
- **Control Group:** Randomized patients not readmitted within 30 days
- **Test Group:** 30 Day Readmissions
Evaluate Risk Factors

- Admitting Diagnosis
- Chronic Condition Indicator
- Readmission History
- Admission Acuity
- Insurance
- DME
- Home Nursing
- Home Therapy
- Language
Identify Risk Categories

Risk score 14: 4 responses out of 5371 possibilities
C-Statistic Score compared to Adult Risk Tools

- Modified LACE: 0.63
- Cerner’s Adult readmission calculation: 0.69
- Pra Risk Tool: 0.65
- HOSPITAL Score: 0.76
- HARRPS: 0.68
HARRPS Development Timeline

- Investigation of current risk tools
  - Fall 2015

- Literature Reviews & Initial Build
  - Spring 2016

- Quality Improvement Project
  - Fall 2016

- Research Project
  - May 2017 - June 2018

- Data Review and Tool Finalization
  - Summer 2018

- Tool Dissemination & Additional Research
  - 2019 & Beyond

- Fall 2015
- Spring 2016
- Fall 2016
- May 2017 - June 2018
- Summer 2018
- 2019 & Beyond
Next Steps

- Share tool with other pediatric organizations
- Collaborate with other organizations to determine best practice interventions for high risk patients
- Future research opportunities
Interventions Based on Risk Category

High
- Care Navigation Consult
- All interventions below

Moderate
- Care Management Assessment to identify individualized plan for patient
- All interventions below

Low
- Discharge Instructions
- Medication Reconciliation
- Recommended Follow-Up(s)
HARRPS Tool

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