Increasing Flu Vaccination Rates in Children 6 to 66 Months

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BACKGROUND

About 20,000 children under the age of 5 are **HOSPITALIZED** each year in the U.S. for influenza-related complications.

Approximately **30%** of children age 6 to 66 months from Millvale Health Center **DID NOT** receive flu vaccination in the 2017 to 2018 flu season.

Improvement of flu vaccination rates will help **PROTECT** these high risk children from the potential life-threatening complications of influenza.
Increasing Flu Vaccination Rates in Children 6-66 months

Project Leader(s): Paula Doll
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Global Aim
To keep children healthy and thriving

SMART Aim
We will increase the number of patients who receive the yearly flu vaccination from 76% to 90% by May 1, 2019

Population
Millvale Health Center patients age 6-66 months

Key Drivers

- Knowledgeable and Engaged staff
- Informed and Engaged parents/caregivers
- Clear and Effective communication amongst team
- Vaccine availability
- Understanding of staff bias
- Preoccupation with failure

Interventions (LOR #)

- Adopted: Staff education with "talking point" materials (LOR 1)
- Adopted: Targeted education materials for parent/caregiver education put in waiting area and patient rooms (LOR 1)
- Remind "floaters" to check need for flu vaccine and make recommendation if needed (LOR1)
- Adopted: Monitor vaccine supply weekly (LOR1)
- RN/MA will verbally advise Provider and/or note in chart whether or not parent agrees to flu vaccination (LOR1)
- Real time identification/investigation of failures (LOR1)
- Flu card Hand off to provider for decliners
- Collection of "Reason for Declining" Data
- Collection of provider specific failure modes
### LEARNING CYCLES

#### PDSA Worksheet – Flu Vaccine Myth Busting – Staff Education

**Objectives:**
- Increase the number of patients who receive the yearly vaccination from 15% to 50% by May 1, 2019.

**PDSA Worksheet – Flu Vaccine – Missed Opportunities**

**Objective:**
- Increase the number of patients who receive the yearly vaccination from 70% to 80% by May 1, 2019.

#### PDSA’s focused on education, visual management, real time feedback.

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**PDSA Ramp Name: Flu Vaccination Education**

<table>
<thead>
<tr>
<th>Test Cycle 1</th>
<th>Test Cycle 2</th>
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<tbody>
<tr>
<td><strong>Test Description:</strong></td>
<td>Create a “flu task” presentation and conduct oral and post assessment. Note: stated the “flu task” in a real-time, face to face assessment manner.</td>
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**POSA Worksheet – Flu Vaccine Myth Busting – Staff Education**

**Ramp Name:**
- Staff Assessment & Training

**Test Start Date:** 5/1/15
**Test Complete Date:** 5/7/15

**What key driver does this test impact?**
- Knowledgeable and

**PLAN:**
- A. Briefly describe the test:
  - Create a “flu task” presentation and conduct oral and post assessment.
  - Note: stated the “flu task” in a real-time, face to face assessment manner.
- B. What would the successful test look like?
  - Increase in understanding of missed opportunities.
- C. How will you measure the success of this test?
  - Increase in understanding of missed opportunities.
- D. What do you predict will happen?
  - Will see an increase in knowledge.
- E. Plan for collection of data:
  - Oral and post assessment.

**Preconditions:**
- List the tasks necessary to complete the test (what)
- Create presentation
- Prepare pretest post test assessments
- Tabulate data

**ACT:**
- List the tasks necessary to complete the test (what)

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**POSA Worksheet – Flu Vaccine - Visual Dashboard**

**Ramp Name:**
- Dashboard

**Test Start Date:** 5/14/10
**Test Complete Date:** 5/24/10

**What key driver does this test impact?**
- Preoccupation with failure

**PLAN:**
- A. Briefly describe the test:
  - Create a weekly visual dashboard of flu vaccination rates overall and by provider (de-identified) for staff.
  - What would the successful test look like?
  - Staff will have more awareness and engagement by knowing current numbers.
- C. How will you measure the success of this test?
  - An increase in % of children receiving the flu vaccine weekly.
- D. What do you predict will happen?
  - Will see increase in % of children receiving the flu vaccine weekly.
- E. Plan for collection of data:
  - Record daily dashboards per provider’s site, sections, those who received, those who declined and missed opportunities.

**F. Tasks:**
- 1. Record daily vaccination rates, eligible, those who received, those who declined and missed opportunities.
- 2. Complete weekly data.
- 3. Present and discuss data every Tuesday afternoon.
- 4. Display weekly data charts and up to date run chart in hallway near Pediatrics.

**Preconditions:**
- List the tasks necessary to complete the test (what)

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**What did you observe that was not part of the plan?**

**STUDY:**
- Did the reach your predictions? Yes or No

**Contraposition of the test to your previsit performance:**

**What did you learn?**
- Visual reminders were helpful in keeping staff motivated.
- Missed opportunities increased once computer.

**ACT:**
- Decide to Adopt, Adapt or Abandon (chart one box).
  - Adopt: Improve the changes and continue testing the plan, plan changes for next test.
  - Adapt: Select changes to implement or a smaller scale and document implementation plan and plan for sustainability.
  - Abandon: Discourages change ideas and try a different one.
RESULTS

% of Children age 6-66 months who received Flu Vaccination during visit at Millvale Health Center

November 2018 through April 20, 2019

- Began collecting “Reason” for Declining Flu vaccine
- PDSA #1 Staff Training
- PDSA #2 Flu shot card Hand Off
- PDSA #3 Visual Dashboard of provider level data (de-identified)
- Age 3+ vaccine not available
- Vaccine availability vs WCC timing
- % of Children age 6-66 months who received flu vaccination

Median
Goal

All Children Thrive Cincinnati
MOST PROUD OF

❖ My team being quality-driven and mindful of the patients and the team

❖ Gaining a better understanding of the multiple challenges/opportunities to facilitate increased vaccination rates
GREATEST CHALLENGE

❖ Seasonal nature of the flu vaccine
  a. “Out of the Ordinary”
  b. Missed Opportunities

❖ Vaccine hesitant and Anti-Vaxxers
  a. Targeted education
  b. Trust relationship
TEAM MEMBERS

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- Hazel Kanu, MD Pediatrician
- Michelle Daniels, RN Health Center Manager
- Janicyn Dunbar, RN, PHN3, Millvale Team Leader
- Kimberly Leary, RN, PHN2
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