

Project Details

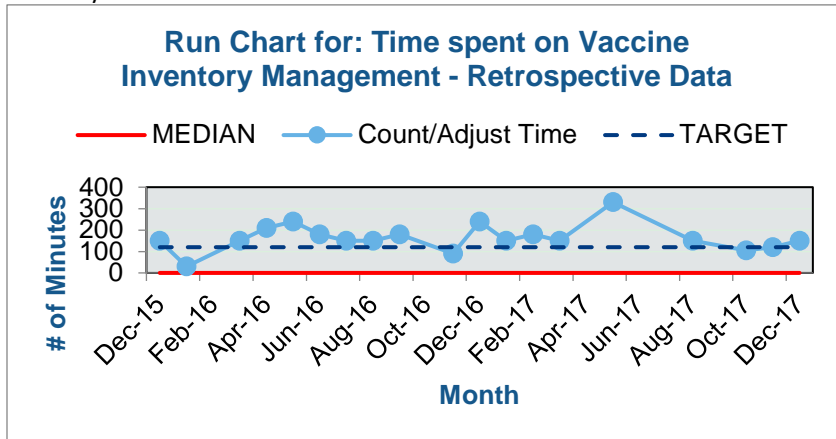
Organization/SDO	Southern Health/Santé Sud	Site/Program	Public Health Healthy Living - Steinbach
Project Description (7 words max)	Vaccine Inventory Management	Project Facilitator/Belt Level	Heidi Donohoe – Yellow Belt Bev Unger – Green Belt
Project Sponsor	Stephanie Verhoeven	Project Team Members	Shirley Loewen, CD/IC Jacqueline Brandt, PHN Viviane Frenzel, PHN Jocelyn Kingshott, PHN Jenna Sciangula, Clerk Andrea Garman, PHN
Project Start Date	August 31, 2017	Project End Date	August 30, 2018

Problem Statement

Inconsistent storage, organization of vaccine, errors and/or delays in data entry, non-recorded wastage of vaccine and lack of process for determining appropriate quantity of vaccine stock to be ordered, results in increased time spent completing the monthly vaccine inventory count resulting in manual adjustment of inventory leaves Public Health Nurses (PHN) feeling frustrated to ensure vaccine stock availability.

Current State Analysis

Changes to PHN work due to implementation of Panorama Vaccine Inventory. Time spent by one PHN is on average 2.5 hours up to 5 hours per month depending on the number of vaccine errors detected & require to count and adjust inventory. Delayed entry and mass immunization event data entry does not result in auto-decrementing of vaccine inventory in Panorama. This all impacts accuracy of vaccine inventories each month.



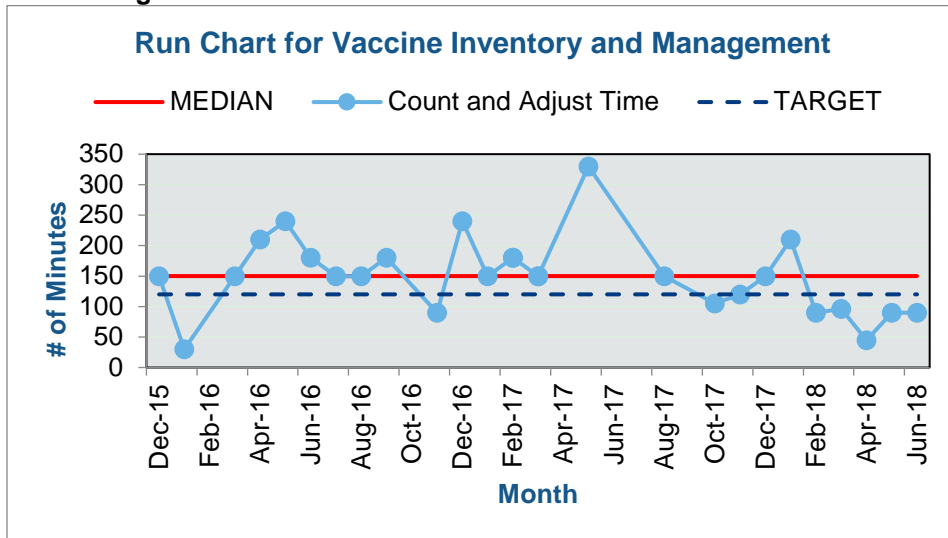
Project Aim

As a 5S project, to improve organization of vaccine inventory within vaccine fridge to comply with Public Health Agency of Canada (PHAC) Standards and make monthly inventory count easier and quicker in Panorama in order to reduce PHN time spent by 50%.

Implementation Plan

	PDSA – Brief Description	Implementation Date
1	'Sort' and 'Standardize' vaccine fridge inventory – label containers by antigen in different color containers to provide visual variation between vaccines	February 2018
2	Develop Quick Reference Guide for Receipt of Vaccine Shipment. Utilize Panorama feature to determine min/max inventory for each month Utilize Panorama report to determine estimated amount of vaccine to be ordered for school immunization programs.	March 2018
3	Implement monthly reminder system to ensure PHNs remember to do manual delayed data entries prior to inventory count.	April 2018

**Project Outcomes –
Post-change Data:**



Improvements/Changes Noted:

- 1) Reduction of 50 % in PHN time spent on performance of physical count & manual adjustments, with awareness of the accuracy which each PHN needs to complete documentation of used or wastage of vaccine, to assist with process of vaccine physical count & manual adjustments
- 2) Awareness of process for receipt of vaccine shipment –Development of Quick Reference Guide
- 3) Backup nurse assigned duties when 1st nurse is not available to receive shipment of vaccine
- 4) Reports generated from Panorama able to assist each nurse with estimating number of doses of school based vaccine to send to ordering PHN twice yearly for mass events.
- 5) Each nurse able to record own wastage of vaccine to decrement actual amount of vaccine in fridge
- 6) Communication with PHN admin when mass events have been recorded in Panorama, for manual adjustment of vaccine to be completed.

Savings Summary (report as applicable)	
Indicator	
Cost Savings	<ul style="list-style-type: none"> • 180 mins to complete monthly task decreased to 90 mins per month. • 180-90 min = 90 mins *12 months = 18.0 hours per year • PHN wages \$50.00 per hour • 18 hours*\$50 = \$900.00 savings per year.
Cycle Time	<ul style="list-style-type: none"> • Cycle time decreased by 50% in time to process vaccine inventory count & manual adjustments

Controls Utilized

1. Visual Control – colored containers for specific vaccines labeled by antigen
2. Standard Work – QRG – Receipt of Vaccine Shipment; QRG – Vaccine Inventory Management Process; used in orientation
3. Written Sign – post PHAC diagram of recommended vaccine storage on fridge as visual reminder

Spread Plan

Share Quick Reference Guides, PHAC diagram, colore coded containers with other Public Health-Healthy Living offices.