# **QUALITY IMPROVEMENT STORYBOARDS**

A collection of Quality Improvement Storyboards from across Northern Health









10-300-6397 (IND 10/19)

### **Ordering Storyboard Books**

Printed copies of the storyboard book can be ordered through Document Source's website using the re-order number 10-300-6397. Coiled booklets are approximately \$16.85 each.

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If you could like to order a large poster copy (48"x36") of an individual storyboard, please contact Document Source at document.source@northernhealth.ca with the name of the storyboard, author, and the page number its on in the storyboard book. Storyboards are approximately \$46 each.

### Storyboard Feedback

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# **QUALITY IMPROVEMENT TRAINING NUMBERS** Highlights from 2010 to 2019



# NORTHEAST TOTALS

Intro to Quality Improvement	272
White Belt	112
Yellow Belt	60
Intermediate Quality Improvement .	
Green Belt	
Black Belt	2
Quality Academy	2

# NORTHERN INTERIOR TOTALS

Intro to Quality Improvement	774
White Belt	323
Yellow Belt	332
Intermediate Quality Improvement	58
Green Belt	55
Black Belt	4
Quality Academy	10

# REGION

Intro to Q White Be Yellow B Intermed Green Be Black Be Quality A

TOTALS Intro to C White Be Yellow B Intermed Green B Black Be Quality A

# NORTHWEST TOTALS

Intro to Quality Improvement	344
White Belt	173
Yellow Belt	192
Intermediate Quality Improvement	34
Green Belt	36
Black Belt	1
Quality Academy	4

INTERMEDIATE QUALITY IMPROVEMENT

67 in progress 23 NH staff mentors for QI students

Physician-focused Principles of Quality Improvement: Level 1

# QUALITY IMPROVEMENT CONFERENCES

755 Participants 2014 to 2018



6 Storyboards presented 2014 to 2018



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# Improving Access to Cancer Screening Services: Fast-Track Colonosocopy at Bulkley Valley District Hospital

### Author: Elena Raykov



• Patients have to come for a separate consult visit before their procedure. About 40% of these patients would qualify for "fast track colonoscopy" (i.e. could come directly to a procedure afte referral from a family physician, without a pre-procedure consultation visit). However

Primary email contact: Elena.Raykov@northernhealth.ca

data at right from Period 4 showing

29% of cases waiting over benchmark

5		at 18 August 2	918
Colonosco Wall Time	# Cases Waiting	I Cases Waiting that have a Benchmark	N Cases Over Benchmart
Facility		a all some the	anter
INDE	118	115	29%
	21	21	5%
	96	90	8%
80	76	74	4%
er NH Facilit	93	91	51%
	92	91	26%
	408	404	32%
83	57	55	25%
19820	-		207
	225	221	Z4%
NEA Total	1186	1162	27%

- There are no clear, written guidelines for selection of patients for fast track.
- □ There is no specific screening/admission form for fast track patients.
- ensure they know how to prepare for their procedure.
- □ At present there are no specific bloodwork requirements for fast track patients.

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Team Members: Elena Raykov, OR Manager; Elize Strauss, Visiting Specialist Office (VSO) clerk; Leayra Germaine, Visiting Specialist Office (VSO) clerk; Patti Fradette, OR booking; Kim Dowling, Pre-Surgical Screening (PSS); Tricia Seinen-Ellis, Pre-Surgical Screening (PSS); Jennifer Cleveland, OR Registered Nurse; Patients

There is no patient information geared towards fast track patients to

1° 4° 4° 4° 4° 4° 4° 4° 4° 4° 4° 4° and and and and and and and and and and



A side benefit is that we have been able to use the Fast-Track Pathway for urgent patients who need to be seen right away even though it was not designed for that purpose. It is working very well.

### Next steps / Sustaining the Gains:

We will continue to monitor the implementation of the Fast-Track Colonoscopy Pathway and its impact on reducing wait times for patients.

Other NH sites are interested in adopting the Fast-Track approach, and materials (guidelines, map, forms, patient brochures) will be shared with these sites.

and family centred. They attended our Kaizen event in December.

## Improving Hip Protector Adherence for Dementia Clients at Terraceview Lodge

#### Author: Amber Brown



8

Team Members: Carla Lennert (Resident Care Coordinator), Cheryl Block (OT), Stacey Cooper (Copper Team Lead)

## Increasing Attendance at Regional Continuing Medical Education Conferences

#### Author: Heather Gummow



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# Hello? Is Anybody Out There? Improving Primary Care Interprofessional Team Communication for Shared Client Care Author: April McLean



WHERE DO WE GO FROM HERE?

PDSA cycles provided the framework for developing, testing and implementing regular IPT huddles and are still ongoing. A post-improvement survey will be implemented in 6 months to measure internal stakeholder satisfaction with the PCIPT communication bathway for shared client care.

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Team Members: April McLean Interprofessional Team Lead; Chris Melenberg, Interprofessional Team Lead; Michelle Pele, Practice Support Leader; Maria Bunkowski, Primary Care Nurse; Emily Brennan, Occupational Therapist; Tracie Janzen, Social Worker

engage other members of the PCIPT. This can lead to gaps in care,

miscommunication, poor follow-through of service requests, inadequate documentation and the potential for

duplication or delay of service requests

There is a low level of satisfaction with

the current communication process as

measured through a survey for internal

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stakeholders. 10.53% of PCIPT members are satisfied with the current process.



## Sterile Storage - Meeting Canadian Standards Association Standards

#### Author: Bonnie Mackenzie



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Secondary email contact: Edwin.Empinado@norternhealth.ca

5-10.00

Team Members: Bonnie Mackenzie, Edwin Empinado, Ann David, Maria Agdeppa, Debbie Sinclair, Laura Thompson, Suzy Raymond Alcoseba, Jillian Pozsgay Lori Webber



# Standardized Work Process and Tracking Tool for Health Services for Community Living Dysphagia Outreach Clinics

#### Author: Heather Ouellette

Unit Name: Health Services for Community Living

Contact: Heather Ouellette, Team Lead

Date: 2019

# QUALITY IMPROVEMENT STORY BOARD

Title: Standardized work process and tracking tool for HSCL dysphagia outreach clinics

# Background

Health Services for Community Living (HSCL) team provides non-urgent services for adults living in the community who have a developmental disability and are eligible for service under Community Living BC (CLBC). Services include: personal health care planning; identification of potential health and safety issues; referral to other resources and support services; coordination of service; advocacy to assist individuals to achieve optimal health & wellness.

The HSCL team coordinates twice yearly outpatient clinics for dysphagia assessment, neurology follow-up (epilepsy) and complex seating for clients who are wheelchair dependent. Clinics have traditionally been organized and coordinated on an ad hoc basis. The HSCL team recognized the need for a standardized process for planning and coordinating each clinic, and a tracking tool for communication. This will enable an administrative assistant to take over a significant portion of the process and all team members to track completed steps.

# Purpose

HSCL team will have a standardized process for each outreach clinic, in writing, by December 2019

# **Previous State**

For many years, the HSCL team was staffed by the original team hired when the program began in NH. As people retired, we realized that we didn't have the processes for our outreach clinics written out and saved anywhere Processes evolved over time based on experience Knowledge was passed from person to person as new hires came on board.

# **Current State**

In April 2018 the HSCL team gathered to roughly map out the current process. We began by brainstorming the steps and then putting them in order on paper resulting in our initial process map. This resulted in task assignment to Admin assistant and to RN to create efficiencies. Through process mapping a flow sheet was created with dual purposes - i) a guide for planning and coordinating the clinic and ii) to be used as a communication tool allowing any team members to know where in the process the planned clinic is at a glance.



# PROCESS MAP: SCHEDULING CLINIC PROCESS MAP: CLINIC DAY Contraction of the 80

D ---

# Results

The inaugural clinic using this new process developed started with a minor glitch at the outset - our administrative assistant had to go off on sick leave! Luckily having created the flow sheet allowed the team to identify the point at which she had stopped and the rest of the team were able to transition into the work smoothly. The use of the flow sheet was very positively received by the team.

On review, the team noted some aspects of the flow sheet that needed adjusting, including:

- The need to include more information in certain boxes of the flow sheet to better explain the process for any new team member planning a clinic for the first time. • The original flow sheet was missing a process step related to referrals coming to our team and being sent to the Access Community Therapists. The flow sheet it was initially designed to suggest two clinics are
- pre-determined annually, however through this mapping exercise it was identified that clinics are scheduled as needed when enough clients are referred.
- In order to streamline the process time allotment for various aspects needed to be pre-determined to help with scheduling.
  - A newly referred client requires 1.5 hours in order to assess. A repeat client can be assessed in 1.0 hour.
- Travel time between homes/office/LIHNBC radiology needs to be incorporated
- When a client requires barium swallow, upfront workload for the HSCL nurse includes many additional preparatory steps for booking the clinic day. The HSCL nurse needs to know the process for booking the procedure at UHNBC radiology, and how much time to book for. The team has recognized the need to ensure this process is embedded within the larger clinic process information so it is easy to find and use.
- The original flow sheet was missing a process step of booking a meeting room for mobile clients who can attend at our office for their appointment. This step has been incorporated into the fleet vehicle booking timeframe
- During this process mapping it was identified that the administrative assistant could be contacting the caregivers with specific instructions in how to prepare the clients. However with verbal instruction alone this practice was inconsistent so the team is creating a script for the admin assistant to use during the reminder calls to the home. This will ensure that all caregivers receive complete, correct and consistent information
- The flow sheet itself has some redundancies that we can eliminate for example a column for "mark when done" and one for "date completed".

# Next Steps/ Sustaining the Gains

The next dysphagia clinic is planned for May 2019. The new, improved flow sheet will be used for planning and running the dysphagia outreach clinic and the next PDSA cycle will begin.

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Going through process mapping has been such a positive experience for the HSCL team that they are looking forward to reviewing other processes to identify opportunities for streamlining our work. For example, in May 2019 the team reviewed and updated all of the referral forms we use and created a folder in our shared drive containing all of the electronic copies.



	nd tracking tool for HSCL dysphag	
Solution		
/e trialed our new process and flow sheet during the ROCESS MAP: SCHEDULING CLINIC	Fall 2018 dysphagia clinic. These process map diagrams show how PROCESS MAP: CLINIC DAY	this process worked in practice, and the designated assigned responsibilities for each part. PROCESS MAP: POST-CLINIC FOLLOWUP
Ange Cha Passe May		

### Customer

#### The HSCL Team:

From Left to Right: Elisha Williams, OT Charlene Gilroy, OT Heather Ouellette, RN. Team Leead Corinne Reich, RN Kim Shannon, RN

## Process for Distributing Provider Contact Information at UHNBC

#### Authors: Gail Haeussler and Jeanette Stebbe



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Team Members: Brittany MacNeil, Eliana Clements, Donna Taylor, Greg Marr

# Improving Consistency and Accuracy of Booking Appointment Process, Both Initial and Follow-Up, within the Quesnel Primary Care Clinic

Authors: Robin Baker, Barb Nieslen, Heather Walker and Adriana Vienneau



# Becoming a Well-Oiled Machine! Improving Coordination of Population and Public Health Elements and Activities that Support Integrated Primary and Community Care

#### Author: Hilary McGregor



Team Members: Kelsey Yarmish, Jennifer Wheeler, Sabrina Dosanjh-Gantner, Adele Bachand, Mike Gagel, Rhoda Viray, Flo Sheppard, Vash Ebbadi, Lara Frederick, Karen Wonders, Hilary McGregor

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At a small kaizen event, the group worked on identifying attendees of meeting structures. Each individual sheet of paper represented a meeting structure with a role in implementing IPCC. Participants each had a package of stickers that represented them, which they placed on meeting structures that they attend.



Participants identified functions that are fulfilled at meeting structures, then grouped similar functions to identify 14 key themes (pink).

### Patient/Customer:

For the purposes of this project, the customer is IPCC operational leaders and staff who deliver prevention and health promotion services.

Customer voice was included in early stages of the project as observation was undertaken and information was gathered across the organization including with operational leaders

and staff (operational forums, presentations to HSDA SLTs, meetings with implementation leads, etc).

The QI project team discussed the importance of the project being inclusive of, supportive of, and informed by customer experiences and realities. However, because this is the first phase and is laying the groundwork for future project phases, and in order to contain the project scope to make progress in a defined timeline, the project team decided to focus within PPH teams only. This decision was made with full recognition that it is necessary to include operational partners in future phases. Improving Height, Weight, and Vitals Measurement Rates for Consultations at Dawson Creek Community Oncology Network (CON) Site

Author: Jordana Archer



Team Members: Lynn Moch, Heather Wozney, Jordana Archer

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#### **Patient/Customer:**

Reduced risk of delay in treatment or additional testina

Improved communication of results through Physician dictation on chart.

Improved information sharing through transcription of results on CON referrals, allowing Pharmacy to readily use this information for drug ordering.

Improved communication between CON and Centre for the North through the use of Telehealth Request

### Systemic Issues to Address in Future:

Clarity on who can collect measurements and when through policy and procedure development

Triaging of Telehealth appropriateness and location according to patient needs

EMR advancement to allow of electronic entry of measurements at CONs and engineering controls

### Improve Human Resource Operations

### Author: Kingsley Ilekendi

Unit Name: Human Resource Operations

Kingslev Ilekendi Contact:

Date: July 4, 2019

#### **Background:**

· The Human Resources Operations team supports organizational leadership in the area of guidance with contract interpretation, human resources best practices, human resources strategic planning, and labour relations. This improvement project is focused on creating a Knowledge Repository for the Human Resources Operations Team. This is necessitated by the knowledge gap arising from the high turnover rate in the department, the dynamic nature of the Northern Health Human Resources landscape and some inconsistencies in practices.

#### **Objective:**

The objectives of this initiative are as follows:

- Improve ease of access to information by providing standardized, adequate and relevant information about Northern Health HR practices
- Reduce the time spent by experienced Human Resources Advisors on supporting new team members
- Improve consistency in Northern Health-specific Human Resource practices
- Improve knowledge retention

# QUALITY IMPROVEMENT STORY BOARD

Improve Human Resource Operations

#### Solution:

#### Standardize work by implementing a Knowledge Repository for the Human Resources Operations team.

A major focus of this project is to provide consistent and adequate information to the entire HR operations team, especially the new HR Advisors, with a view to creating a more efficient and standard service. To achieve this, we have to minimize variation in service and ensure that everyone is following the same process and principles in their Human Resource service delivery. Following the Lean principle of ensuring quality at the source by standardizing work, we created a standard document outlining applicable principles and processes that must be followed in completing the majority of the Human Resources Operations team's work. This document is titled Human Resources Operations Knowledge Repository. In addition to enhancing consistency and efficiency, the document will play a vital role in knowledge retention and the learning and development of new employees.



#### **Current State:**

The result of our current state and root-cause analysis affirms that there is a knowledge gap within the Human Resources Operations team. The majority of the historical knowledge and Northern Health-specific Human Resources practices have not been outlined in a comprehensive document. This has resulted in the loss of important historical information and a significant knowledge gap. especially when experienced employees leave the team. The department has not prioritized knowledge retention; hence, the knowledge retention process is nonexistent.



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### **Results:**

The Human Resources Operations Knowledge Repository project is the first step in transforming the Northern Health Human Resources Operations into a Lean environment. Prior to this project, there have never been any Lean initiatives in place. The implementation stage has been challenging due to churn within the department. We intend to apply the principles of Lean implementation during the implementation stage. Our expectation is that by December 2019, we will be able to measure outcomes. We expect to see improvements in access and adequacy of information and a reduction in training time for new Human Resources Advisors. Hopefully, as soon as some of our vacancies are filled, we will get the new team members to start using the Knowledge Repository right from orientation. At that point, we will start testing and collecting lead/process measures data.

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	Implementation step	Status
1	Gain corporate and top management vision	Complete
2	Train Lean Champions and Kaizen facilitators	Complete
3	Access, and develop the success structure	Complete
4	Identify the value stream	Complete
5	Get quick wina	In progress
6	Train associates and extend training to all	In view
7	Engage and manage supply chain	Not applicable
8	Identity information metrics and Financial reporting system	Not applicable
94	Simplify and achieve flow	In progress
10	Maintainmonsentum	In progress

- Next steps / Sustaining the Gains: To ensure accuracy and adequacy of information in the repository, control measure will be put in place. The Knowledge Repository is a live document that will be continuously reviewed, improved and updated on a quarterly basis and as needed. Any update will be discussed during the weekly team meeting and only a select few will be authorized to make any changes to the document.
- Create a Lean culture within the Human Resources Operations team. This will be done by keeping the quality improvement and Lean conversation alive by training other team members to become proficient in Lean and by ensuring that the team taps into Lean procedures that have been put in place such as the Knowledge Repository.
- Draw Traffic to the Knowledge Repository
- Make the Knowledge Repository into a mini library where every team member can go to for up-to-date information on current and past practices. user-friendly layout of the document has been deliberately designed to enable ease of access and encourage frequency of usage.

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Team Members: Emily Plummer - HR Manager, Kingsley Ilekendi - HR Advisor, Mark Hollyoak - HR Advisor, Kelly Bailey - HR Advisor, Sim Kailey - HR Advisor, Crystal Male - HR Assistant, Michelle Sullivan - HR Assistant



### **Patient/Customer:**

Value is at the core of the Human Resources Operations business; therefore, we should be able to create, communicate, and add value to our customers by ensuring efficiency, consistency and adequacy of service. The Knowledge Repository will enhance the value we provide to our customers and better equip the Human Resource operations team to provide more expedient, consistent and professional service.



## Building an IT Services Framework that Leads to Accurate, Trusted, and Accessible Information

#### Author: Martin Stentrop



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Team Members: Martin Stentrop, Richard Bygrave, Kolten Cowie, Bryan van Dinter, Kent Foreman, Peter Hvezda, Jon Mundie, Sheldon Rogers, Brianne Russell, Kyle Schmalz

aity Level - iSixSigma	
on-Dependent Practices	This is for cases where the activity being performed is not documented.
umented Process	At this maturity level, there is a document that has been reviewed and approved by the supervisor or the approving authority as the standard process.
tel Deployment	Here, the activity that is documented is being deployed, but there is inconsistency in the deployment.
Deglayment	At this level, there is no inconsistency between the documented process and the deployed process. This means that the process shows greater consistency of actions and better communication between functions.
ilured and Automated	The process has set itself goals such as adherence to timelines, customer satisfaction, cost, etc. The process also is being measured against its goals.
Devoyaly Improving	The goals set for the process are being analyzed for achievements and improved regularly.

### Interdisciplinary Approach to Wound Care at Stuart Nechako Manor

#### Author: Rebecca Fraser



Secondary email contact: RDMT@northernhealth.ca

(19)

Team Members: Rebecca Fraser, RD; Lan Nguyen, Dietetic Student; Hannah Zmudzinski, Dietetic Student; Douwette Coetzee, Physician; Katherine Leask, CNE (Skin & Wound); Patrick McGrath, OT; Robyn Turner, RD; Tracee Dunn, Residential Care Manager; Chona Dick, Care Coordinator; Susanne Watson, Allied Health Professional Practice Lead; Judy Wakabayashi, OT; Benita LeMorvan, OT



### **Patient/Customer:**

The standardization of screening and then referring high risk resident's for the development of PI's to the Interprofessional team will hopefully lead to the reduction in the development of PI's which impacts both resident's quality of life as well as nursing time spend caring for PI's and the expense of supplies.

As well, by involving the Interprofessional team in the management of PI's this means that the care doesn't fall entirely on the nursing team and leads to a leveling of the work

It also will lead to addressing more of the causal factors and will lead to a guicker healing time.

## **Patient Pathways Project**

### Authors: Danielle Richey and Kristen Scrivens



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Team Members: Cara Webb, Darri O'Neill, Kim Ezergailis, Sarah Degerness, Tamara Stephens, Dr. Feenan, Dr. Wahl, Dr. Kay, Dr. Huang



# **Baby-Friendly Initiative (BFI) Step 1 - Policy Implementation Project**

### Author: Vanessa Salmons



Quinn, Brittney McCullough, Teresa Healy, Jeanne Hagreen, Bev Barr, Dr. Shannon Douglas, Sarah Hilbert-West, Ashley Gueret, Lea Geiger; Operational Team: UHNBC - Marnie Hauck-Bohmer, Audrey Blake, Madison Friesen, Colleen Rea, Martina Irvine, Katherine Schemenauer, Brittney McCullough, Darlene Fjellgaard, Muireena McArthur, Kim Foster, Andrea Mainer, Melanie Martin, Roberta Miller, Sarah Brown, Jamie Hill, Celia Romaine; Quesnel - Melody Moore, Carol Mankowske, Cristina Ferreira; Kitimat - Kimberly Ezergailis, Kirsten Scrivens, Sarah Matos; FSJ - Donna Porter, Karen Monahan, Sharene Bevan, Stella Ndunda, Hannah Orfald-Clarke, Mikaela Pond, Amanda Halliday, Jessica Lalani

# The Bulkley Lodge Stores Quality Improvement Project: Managing Nursing Supplies in Treatment Room Author: Liza Hart



Team Members: Liza Hart, Manager; Rianna Simons, Admin Support; Heather York, LPN Team Leader; Marzena Motz, Admin Support; Margaret McDaniel, CPL; Heather Shannon, Manager, Support Services; Urs Tresch, Maintenance

## **Referral Prioritization and Waitlist Management in a Community Mental Health Setting**

### Author: Trish Jones



am Members:	<ul> <li>Maria Bunkowski</li> </ul>	<ul> <li>Kerri Scott</li> </ul>	<ul> <li>Deborah Parent</li> </ul>	Brett Broster
	<ul> <li>Treena Decker</li> </ul>	<ul> <li>Cathy Carleson</li> </ul>	Chris Melenberg	<ul> <li>Jacquie Hakes</li> </ul>
	<ul> <li>Lucy Woodman</li> </ul>	<ul> <li>Nicola Harrington</li> </ul>	Michelle Pele	<ul> <li>Tamara Checkley</li> </ul>



### Patient/Customer:

 Patients were prioritized daily and contacted accordingly

Patients were seen in a timely manner, thus making services more accessible for the right person, in the right place, at the right time

Wait times for urgent and high priority patients decreased

• All patients were offered additional resources during their wait times

- The results indicate that we are not offering services immediately when patients need them most or are most likely to engage in services (i.e., at the time of referral)
- This suggests that a walk-in clinic model may best meet the needs of patients, by providing the appropriate response to patients at the most suitable time

# **Enhanced Resident Satisfaction through Tableside Meal Service**

### Author: Heather Shannon



Primary email contact: Heather.shannon@northernhealth.ca

Secondary email contact:

Team Members: Cormac Hikisch, HSA; Ciro Panessa, COO, Liza Hart, Residential Manager, Shelene MacNeil, Therapeutic Recreation Practioner, Margaret Daniel, CPL, Stephane Gauthier, OT, Deanna Hawkins, Coordinator, Support Services, Sara Linden, Cook III, 10 Residents (anonymous); Residents physicians , HCW/LPN team, Dietary Team

## Workplace Health and Safety Admin Team Review

Authors: Christine Lewis and Leeann McDowell



WHS Admin process reviews

Primary email contact: leeann.mcdowell@northernhealth.ca

Team Members: Christine Lewis, Leeann McDowell, Colleen Jacobs

OCCUSION INTRACTOR COLUMNERS

Secondary email contact: christine.lewis@northernhealth.ca

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### **Patient/Customer:**

In December 2017 we surveyed our customer base (WHS staff and leadership) to see where the satisfaction levels were with the currently provided services. We once again surveyed the WHS staff to check on the satisfaction levels.



# **Nurse's Supply Room - Organization and Restocking Process**

#### Author: Debra Levasseur



Team Members: PCA - Karlene Mushamanski; Public Health Assistant - Robyn Jickels; Team Lead - Ricki Smith; Clinical Nurse Educator - Jasmine Jawanda; PHRN - Sarah Brown; Manager, Community Services - Julie Dhaliwal; Team Lead, Public Health Clinics -Melanie Martin; Sponsor - Director Community Services- Suzanne Campbell

### Increasing Security and Improving Usability for Northern Health Remote Computer Access

#### Author: Dave Moleschi



# Improving Acute Care Nursing Orientation

### Authors: Marie McIvor and Sam Teghtmeyer



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Team Members: Managers: ER/ICU, OR/PAR, inpatient unit, maternity. Staff, new hires, and those hired in the last year.

		Task/Objectives		Due
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# **Getting Green - A Recycling Project at Wrinch Memorial**

### Author: April Sebastian



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Team Members: Kyla Arnett - Life Skills Worker Doug Eftoda - Maintenance Supervisor Selina Stoeppler - Dental Clinic Department Head Tysen LeBlond - Community Services Manager Deanna Hawkins - Support Services Coordinator Shirley Webb - Doctors Clinic Department Head Maureen DenToom - Patient Care Services Manager

# Rapid Mobilization Program Utilization by Fort St. John Hospital Emergency

Authors: Joyce Graham and Kara Simons

# QUALITY IMPROVEMENT STORY BOARD

Rapid Mobilization Program Utilization by Fort St. John Hospital Emergency

# **Objective:**

To improve appropriateness of care for patients who present to the FSJ Hospital Emergency Department by increasing referrals to Rapid Mobilization Program by 50% by May 2018 for those patients whose care would be more appropriate when delivered by community in their homes rather than being admitted to hospital or sent home without community supports. This will increase referrals to the Rapid Mobilization program by 4-5 per month.

How does this help our patients?

- 1. Healthy People in Healthy Communities provides ED staff with an alternative to admission with the goal of rehabilitation so that patients are able to live safely and independently
- 2. Coordinated and Accessible Services strives to ensure patient receives the right care at the right time in the right place by improving communication between the Emergency Department and Community Services
- 3. Quality improving outcomes for patients, ensuring physicians and other caregivers have confidence that their patients are receiving the care they need

# Background:

Rapid Mobilization is a Home and Community Care program that provides patients with access to community based home support services. The program provides up to 5 days nursing care delivered by LPNs, or a bridge to various community services that may enable qualified patients to receive care outside of a hospital setting.

The program started in Fort St. John in 2014. Demand for the Rapid Mobilization program has increased overall by 85%. There has been an overall increase in referrals from two areas (day surgery and family practices), but less of an increase from the Emergency Department (ED)/Critical Decision-Making Unit (CDU).

Repid Mobilization Referrals			
2015 vs 2017 (based on Aug. Sep. Oct)			
source: 2015 S. Sawka Rapid Mobilization Cl/ Storyboard;			
2017 Ropid Mobilization referral binder	2015	2017	
	axe per month	ave permenth	Increase
Day Surgery/Minor Procedure Room	2	15	45,32,996
Family Practices/Birthing Centre	5	8.4	154N
Emerg/COU	7		22%
FSI IPU/Other Inpatient			-3.2%
Community Services	1	1	014
Unknown/Source not provided	2	3	30294
	26	48	85%

# Current State:

#### FSJ Hospital current state and capacity issues:

- Inpatient Unit 87% over capacity during 2017 Emergency Department volume approximately 2000 patient visits per month; 27%
- are patients who are triaged as CTAS Level 3 Of patients who were triaged as CTAS 3, 24% of those aged 65+, were admitted to
- acute care; 8% of those under the age of 65 were admitted. Time of registration: 46% of patients visit the Emergency Department in
- evening/night between 4pm to 7am

Rapid Mobilization Program could be an option for more patients:

- to avoid admission by providing timely access to care in patient's home and at hours when other services may not be available
- to provide an opportunity to assess patient's needs in the home when they may otherwise be sent home without supports
- to connect the patient to appropriate community services

#### Uncovering the Root Cause; Could there be more referrals from Emergency to Rapid Mobilization?

The team held a series of Kaizen events to determine why the rate of referral averages only 8 referrals per month to Rapid Mobilization. The following tools were used:

- 1. Process map
  - Identified bottlenecks/barriers faxing referrals at end of shift, availability of diagnostic services, safety of staff home visits at night
  - Identified waste referrals with incomplete or insufficient information, no follow up phone call

#### 2. Fishbone Diagram

Lack of knowledge about the program due to staff turnover Location - Rapid Mobilization Program staff located in health unit, not



#### How the Rapid Mobilization Program changed the rest of my Mum's life



There was a sudden change in the last eight months of my Mum's life. Prior to this she was mobile, basically medication-free, able to complete all her daily living activities easily, and breath on her own. We started noticing a slow decline in her health needing medication and a walker. In April 2017 my Mum was admitted into the hospital when things turned from bad to worse.

My Mum's wish was to be at home. In her words, "I just want to go home and be comfortable". As a result, Rapid Mobilization and her family doctor started creating a plan for a safe discharge. She was now put on oxygen 24/7 so a concentrator was set up, regular blood work needed to be drawn for her blood thinner management, and safety checks and vitals were done when her well being and medication management was assessed. She was able to return home safely.

The Rapid Mobilization program was able to transition Mum to several community services for the next five months. This allowed her to be at home without hospital protocols and it allowed me to be a little less stressed. We were able to better enjoy the rest of my Mum's time together. Eventually my Mum was readmitted where she decided to receive palliative care. She died on the 7th of October 2017 the way she wanted - peacefully.-Joyce Graham

Emergency Department Fort St John Hospital and Rapid Mobilization Program, Home and Community Care Fort St John May 2018 Prepared by: Joyce Graham, Primary and Community Care Process Lead, Regional; Kara Simons CPA, CMA, Independent Contractor/Business Analyst

Sponsor: Sherry Sawka

and discussed.



- Quality of referrals/waste:



# Friendly Faces in the Emergency Room

# Author: Heather Goretzky

	JALITY IMPROVEMENT STORY BOARD	
Contact: Heather Goretzky		
Date: January 23, 2018	FRIENDLY FACES IN THE EMERGENCY ROOM	
Background:	Solution:	
It has been suggested that there are Friendly Faces who visit the ER for non-emergent care more frequently than would be anticipated given their health status.	During our Kaizen event we were able to map our current state for accessing care in the ER. We utilized a TRIZ to further identify areas for improvement and subsequently a work plan to capture the change ideas to be developed into PDSA cycles to test change.	een te
$\succ$ Care delivery in the ER costs more than that in the community setting.	<ul> <li>&gt; We identified the need to develop a process for identifying Friendly Faces in the ER</li> <li>&gt; Trial with Team Lead to identify based on ER data - was not successful - not enough</li> </ul>	
We have Home and Community Services available in our community that might support the individuals and subsequently decrease the need to access care in the ER.	<ul> <li>history to determine</li> <li>Trial with Physicians identifying based on ER data - was not successful - physicians were unable to identify Friendly Faces from the data</li> <li>Trial with ER nurses identifying based on recognition of Friendly Faces - one patient identified - already well connected to the team. Medical interventions were implemented by physician. Too early to see results.</li> </ul>	(4)*-
Objective:	Is it possible to indicate a connection to the IPT on the ER sheet at registration? NH trialing this process in PG and will move out to Vanderhoof in their next trial phase	-
To develop a standard process to identify who the Friendly Faces are and subsequently develop plans of care to support them with team based care.	<ul> <li>How to best document and share the information</li> <li>Care plans developed in collaboration with the patient/family, physician and IPT that are shared with all involved and are uploaded to Powerchart and available in the ER</li> </ul>	
To reduce the number of visits for identified individuals by 5% by January 23, 2019 by proactively supporting the individuals with services in the community setting.	<ul> <li>How to educate patients re: clinic appointments available when not an emergency</li> <li>Poster for Emergency registration area</li> </ul>	
	<ul> <li>&gt; How can discharge planning support friendly faces? Recognize and follow up quickly with individuals already connected with the team to see if there is a need to bolster supports.</li> <li>&gt; Explore a daily ER registry to be shared with the IPT and Head Nurse</li> <li>&gt; Physician orientation to the IPT</li> </ul>	
Current State:	Results:	F
The data gathered from the SJH ER showed that we had a total of 7,448 visits for CTAS 4 and 5 visits in 2016, and in 2017 the number increased to 7,819 visits	> While anecdotally it was indicated that there were Friendly Faces in the SJH ER, we were unable to readily identify Friendly Faces through the data.	'
In comparing a rural community of similar size, Vanderhoof was shown to have 25% more unscheduled CTAS 5 visits in the same period of time.	> We have not had any data to date to pull to measure an improvement or not.	:
<ul> <li>In the later half of 2017, Vanderhoof had a full cohort of physicians, with more appointments</li> </ul>	<ul> <li>Through tools used in our Kaizen event, we determined that there were a number of minor improvements that we could trial to see improvements:</li> <li>1. Poster for the ER registration area to highlight that if individual does not deem their visit to be emergent, there may be appointments</li> </ul>	
available in the primary care clinic.	available at the medical clinic and provided their number. (The clinic is right across the street) 2. Identifying IPT connection upon registration at the ER. We were looking to implement a system that would identify on the ER sheet. In	
Costs in the ER are not easy to determine as there is a lot of overhead and staffing that factor into the cost, but on average, we could see the cost was higher in the acute setting as compared to a physician's office.	Prince George this is currently being trialed in the Cerner program with an alert. Information received was that Vanderhoof has been slated to trial in the next phase of project. This should alert ER staff of a connection to the IPT with the hope of informing and/or supporting follow	
	up/discharge plans with the individual. 3. ER daily registry report. We are currently in the process of development with NH HIMS team. We will trial having a copy of the report for the IPT prior to discharge planning to identify individuals who are already connected with the IPT. Identified individuals can then be brought up at discharge planning with the Head Nurse who can determine if the visit is appropriate for the team to proactively follow up by phone call to the team of the protection of the protection of the team of the visit is appropriate for the team to proactively follow up by phone call to the team of the visit is appropriate for the team to proactively follow up by phone call to the protection of the team of the visit is appropriate for the team to proactively follow up by phone call to the visit is appropriate for the team to proactively follow up by phone call to the protection of the visit is appropriate for the team to proactively follow up by phone call to the visit is appropriate for the team to proactively follow up by phone call to the visit is appropriate for the team to proactively follow up by phone call to the visit is appropriate for the team to proactively follow up by phone call to the visit is appropriate for the team to proactively follow up by phone call to the visit is appropriate for the team to proactively follow up by phone call to the visit is appropriate for the team to proactively follow up by the visit is appropriate for the team to proactively follow up by phone call to the visit is appropriate for the visit is appropriate for the team to proactively follow up by the visit is appropriate for the team to proactively follow up by the visit is appropriate for the team to proactively follow up by the visit is appropriate for the team to proactively follow up by the visit is appropriate for the team to proactively follow up by the visit is appropriate for the team to proactively follow up by the visit is appropriate for the team to proactively follow up by the	
> We were able to map out the current state for accessing care in the ER during our Kaizen event.	determine if further visits/supports would be appropriate with the individual.	
event.           314 3006 with 2013 NUMBER OF COMPARISON DATA           7,000	Next steps / Sustaining the Gains:	
ER VISIT TRIAGE COMPARISON DATA	<ul> <li>Next steps / Sustaining the Gains:</li> <li>&gt; We will continue to have the ER nurses identify any Friendly Faces and bring them forward at discharge planning by the Head Nurse or her substitute in her absence. Pull reports to monitor change for improvement or not.</li> </ul>	
event.	> We will continue to have the ER nurses identify any Friendly Faces and bring them forward at discharge planning by the Head Nurse or her	

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Team Members: Jennifer Clarkson, Edie East, Dr. Nicole Ebert, Heather Goretzky, Raquel Miles , Mary Ann Mose, Valerie Pagdin, Cindy Simoes, Brad Van Dolah



# atient/Customer:

Through Patient Voices Network, we connected with two individuals from our community to participate in this project.

We were better able to understand the perspective of a patient accessing care in the ER.

The patients were able to contribute in a Kaizen event and identify areas for improvement that should positively impact the patient experience.

## **5S HSBC 4th Floor Supplies!**

Author: Jayleen Emery



# Communicating and Increasing Use of the Adaptive Feeding Aids Process within Northern Health Facilities

### Author: Judy Wakabayashi



Primary email contact: RDMT@northernhealth.ca

Secondary email contact: Judy.Wakabayashi@northernhealth.ca

Judy Wakabayashi (OT), Olivia Jebbink (RD), Julie Lidstone (SLP), Stefanie Finch (RD), Darcie Bergeron (RD), Carly Phinney (RD), Heather Anchikoski (OT), Beverlee Barr (RD), Benita LeMorvin (OT), Kelly Bogh (RD), Samantha Verity (CPL), Team Members: Peter Donohoe (Manager - Residential Care Programs), Sharon Heudes (Supervisor - Food Services), Jean Schening (Manager - Food Services), Dawn Taylor (Food Services), Audrey Ziegenhagen (Food Services), Brenda Miller (NI - Regional Educator), Lois Barney (Director - Support Services), Travis White (Aramark), Julie Florell (LPN), Tiffany Knight (Care Aide), Gordon Tennant (Care Aide), Gary Gurnsey (RADC Participant Member), Clytie Umperville (Customer Relations Coordinator - Supply Change, Susanne Watson (Professional Practice Lead - Allied Health)

# Transition of Care Communication Between Units at G.R. Baker Memorial Hospital

### Author: Laura Johnston

Contact:	G.R. Baker Memorial Hospital (QUESST, Medicine, Emergency) And Dunrovin Park Lodge Laura Johnston	JALITY IMPROVEMENT STORY BOARD
contact.		Care Communication between units at G.R. Baker Memorial Hospital
Date:	May 4, 2018	
Backgr	ound:	Solution:
potential risk	munication is critical in maintaining patient safety. Hand-off communication carries a to patient safety and is a major clinical priority. Transition points of care are nts for the patient.	Throughout the summer and fall of 2017, a Development Team comprised of subject matter experts met to review the Clinical Practice Standard and Transfer recommendations arising from the Admission Documentation Working Group. After consultation with and feedback from stakeholder groups, both documents
Often clients a verbal commu	and families are required to repeat information in the absence of documented and nication between staff. Clients and families need information to prepare for and transitions, as well as to make decisions, and often are not an active participant in	The SBAR Tool (Situation, Background, Assessment and Recommendations) was revised to ensure it was consistent with language and formatting used with oth document was also shortened to ensure duplication was not occurring between forms (i.e. with the Admission Assessment form). The team at G.R. Baker decided to focus on Transition of Care Communication in the QUESST unit and the Medicine unit. The goal was to have staff on both these units become familiar with the process already in place with the Emergency Department,
requires stand discharge. Tra	Canada's Required Organizational Practice (Information Transfer at Care Transitions) ardized documentation at all transition of care points from emergency, admission and nsfer of Care Communication and the SBAR Tool (Situation, Background, Assessment & ions) refers to a summary report of the patient's treatment and medications.	to include the SBAR tool on every patient chart, to have it completed fully, and include the patient and their family in the communication. The Clinical Practice Leader for Medicine and the QUESST Team Leader provided communication to staff on the introduction of the SBAR tool and process. Communication occurred through email, morning huddles, and unit staff meetings. Weekly audits of patient extended to measure the leader of difference of difference on first parameters and unit staff meetings.
Object	tive:	charts was conducted to measure the level of success and identify areas for improvement.
and 5 crisis sta residential fac Between the A patients (4 out chart by April and their fami Incorporating	orial Hospital is a full care hospital with 27 acute beds, 4 ICU beds, 3 maternity beds abilization beds (QUESST). Dunrovin Park Lodge is a 91-bed intermediate care ility with 19 special care beds. Medicine, QUESST and Emergency Department units at G.R. Baker Hospital, 80% of t of 5) will have a completed Transition of Care Communication document on their 30, 2018. This will result in better communication between staff, physicians, patients lies, better patient care and increased patient safety. the use of transfer forms and standardized checklists, as well as including the oask and respond to questions, ensures the accurate and complete communication of	PROCESS (high level): The Sending staff member is responsible for communicating the patient information and releasing care of the patient to the Receiver. The Receiving staff member is responsible for receiving the patient information and accepting care of the patient. Hand-off communication occurs at the bedside and includes the Sender, Receiver and the patient/family/caregivers, when appropriate. There is a period of Protected Time at the end of hand-off to allow the Receiver to ask questions of the Sender. Use the standardized Transition of Care Tool (SBAR approach) in conjunction with verbal hand-off to relay patient information
	it State:	Results:
In 2013 Northe Procedure and Baker Memoria years in compl A baseline aud and the SBAR was to include Within other u units include p and Medicine. The SBAR Tool on the Admissi	ern Health implemented a Transition of Care Communication - Administrative Policy & SBAR Tool for all Emergency Departments (ED). Leadership and ED staff at G.R. al Hospital was very engaged in this work and have been very successful over the leting the SBAR tool for patient transitions out of the Emergency Department. It was completed on patient charts for transitions from the ED to the Medicine unit tool was on the chart 100% of the time. An opportunity identified for improvement the patient and their family in the communication - which was at 40%. Inits at the hospital, they had not yet implemented the process and SBAR tool. These patient transitions between the QUESST unit (mental health), ICU, Surgery, Maternity that was being used was two pages and duplicated some of the information collected for Assessment form and Plan of Care form. These three forms contained inconsistent formatting (ie: acronyms for allergies was different on the two forms).	Similar to the Emergency Department experience, the SBAR tool was included on the patients chart and completed fully almost 100% of the time for both the Medicine and QUESST unit. Involving patients and their family in the Transition of Care Communication is an area that needs further improvement. One observation encountered mid way through the improvement project was that often it was not appropriate for the QUESST patients to be included in the communication due to being under observation, experiencing Psychosis or medicated. In these cases, the team decided that the audits would capture this scenario as being not applicable (N/A) instead of not completed. This also reflects the SBAR tool, which provides yes, no and not applicable check boxes. In early May, staff were provided with the results of the recent audits and provided further education on the importance of including patients and their family in the transition communication. At the time of this storyboard submission, audit results showed an increase from 20% to 63%. The team will continue to do audits and track & share the results.
used by the En that the patien and from Surge	rogram reviewed the SBAR tool being nergency department and determined nt information to be communicated to ery is different than between thin the hospital.	Next steps / Sustaining the Gains: The QUESST and Medicine unit teams will continue to audit the charts to ensure sustainability of this improvement over the next 3 months. The focus will be on including the patient and their family in the communication and this can be achieved by ensuring the communication occurs at the bedside.
Communicatio	of the Transition of Care n SBAR tool, Admission rm and the Plan of Care form.	Another opportunity will be to gather feedback from staff on their comfort level and satisfaction with the new process and SBAR tool that has been implemented and see what additional improvements can be considered based on this feedback. We are planning on reviewing the SBAR tool to ensure the changes recently made to the document are meeting the needs. For example, there has been feedback that certain elements are missing from the tool (ie: Patient Transfer Network) and there could be some unique needs for the QUESST unit and their patients, similar to the Surgery unit.



sfer of Care SBAR Tool based on the nts were revised and updated on OurNH.

other acute care documentation tools. The

#### ol (2 pages)



### atient/Customer:

ng the initiation of this improvement project, it was tified that resident transitions between the Long of Care facility (Dunrovin Park Lodge) and the regency Department do not have a clear process or munication tool. In reviewing what other Long Term facilities are doing across Northern Health, we ized that there is no standard for this Transition of communication. The team at Dunrovin Park Lodge ed that they send up to 7 different pieces of umentation to the hospital with the resident (via ulance). As they are not documenting electronically, need to handwrite and photocopy these documents, ing an increase in workload and duplication. In their rience, when the resident returns to the long term facility, rarely any documentation or

munication regarding the care they received and plan changes are received. Based on this, the group decided to expanded their improvement project to ide transitions between Dunrovin Park Lodge and the rgency Department at G.R. Baker Memorial Hospital.



ead (Operating Room) e, Karen Fee - Clinical Practice Lead,

# **Reducing The Risk: Crucial Conversations Regarding Patient Placement**

Authors: Dr. Laura Brough and Shelley Movold



Author: Tara Mitchell

## Unit Name: FSJH Laboratory Contact: Tara Mitchell-FSJH Lab. Mgr. Date: September 2018

### Objective: To

decrease OP wait times by Dec.31/18 to not more than 15 min., improve quality and the patient experience.



# Background:

The OP lab supports local clinics, out of town doctors/specialists with routine, preop and stat collections. A longer wait time inevitably leads to a delay in diagnosis and treatment and possibly in the scheduling of procedures. The OP waiting problem has been recognized by staff and patients

### Current State:

Each staff member works in their own rooms and calls patients individually. Staff process OPs from start to finish and some work faster than others do, so OP turnaround varies. Every OP wait is captured and measured with the "Q-Nomy" system.





Factors that contribute to OP wait times include · Incomplete requisitions/patient preparation · Errors in direction/information Clerical duties · Inpatient priorities

# Fort St. John Hospital Laboratory **Out Patient (OP) Wait Time**

Solution:

Revise rotation/work schedules

- Create a "tag-team" environment where one staff member accessions all • orders and the other staff does the phlebotomy, recognizing that, in order to do this successfully, communication between co-workers is key.
- Better signage and clearer patient information

## Results:

The percentage of OPs waiting 15 minutes or less increased as intended. Several other improvement opportunities were identified during this improvement process. A 'whole' Laboratory Service Review Assessment completed in June 2018, confirmed the further improvement opportunities and the team looks forward to continuing improvement work.



# Next steps/Sustain the Gains:

Parking Lot of Improvement Opportunities identified include:

- Sample drop-off station
- Removal of double-entry process for registration
- Q-nomy ticket/data system ٠
- Longer hours of operation

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Monitoring of the OP Lab wait time will continue. Another OP Lab survey is planned for 2019. Attention to further improvement opportunities will further decrease wait times.

Primary email contact:-Tara.mitchell@northerhealth.ca\_Secondary: Lexie.gordon@northernhealth.ca\_or Barbie.johnson@northernhealth.ca Team members: Tara Mitchell, Laura Lee Bianchi, Kristina Nurse, Kim Hartford, Lisa Pittman and Nicole House


## Decreasing The Number of Failed Medical Services Plan Claims in MOIS Using Correct Codes and Patients Information

Author: Denise Cerqueira-Pages



Unit Name: Northern Haida Gwaii Hospital & Health Centre

Denise Cerqueira-Pages 250-626-4702 Contact:

Title: Decreasing the Number of Failed MSP Claims in MOIS Using Correct Codes and Patients

QUALITY IMPROVEMENT STORY BOARD



## **Patient/Customer:**

This project gave a chance to improve patient/customer authentication at the Masset Clinic according with the NH policy. Furthermore, proper client authentication guarantees privacy. confidentially and proper care. Masset, Port Clement and Tow Hill communities have accepted this change and agree how important this procedure is for their health services.

# Surgical Start Time for Gynecological Cases at UHNBC

Authors: Dr. Marijo Odulio, Jodi Temoin and Shelley Movold



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Team Members: Dr. MJ Odulio, Dr. J. Akhtar, Jodi Temoin, Kim Frost, Jana O'Neil, Shelley Movold

# **Organizing Space and Improving Processes around Supplies and Client Files**

Author: Sherry Sawka



# Wrinch Memorial 5S Project - Doctors' Clinic Supply Room

## Authors: Shirley Webb and Julia Sundell



Primary email contact: Shirley.webb@northernhealth.ca

Secondary email contact: Julia.Sundell@northernhealth.ca

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Team Members: Shirley Webb - Clinic Manager, Julia Sundell - Practice Support Coach, Mary Vanstone - Health Service Administrator, Chris Chandler - Physician, Doug Eftoda - Maintenance Supervisor, Janet Wright - Sterile Processing Department, Beth McAskill - Infection Control Practitioner, Duane Garceau -Stores, Sylvia Wagner - Starting Smart Administrator, Verna Sullivan - PCN, Sandra Lynch-Bakken - PCA, Katja Wagner - PCA, Monique Jones - PCA and Heather West - PCA Mentor team: Selina Stoeppler & Shar McCrory

## Spreading Lab-Based Success: Improving Patient Flow by Supporting Timely Discharge of Patients within Three Northwest Facilities

Authors: Lee Cameron and Tiegan Daniels



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Team Members: (KGH) Mark Hawkins, Pamela Dawkins, Peter Gill. Process mapping kaizen participants also included Ashlee Baer, Wendy Baker, Mary John, Krina Patel, Alberto Pineda, and Sandra Whittington. (PRRH) Michelle Bartel, Alyssa Rimmer, Shannon Mann. Process mapping kaizen participants also included Adelaide Dipascale, Sara Phillips, Angela Szabo, Holly McAlister, and Michelle Pele. (BVDH) Scott Martin, Robbie Dunbar, Sharon Dempsey, Dr. Vestvik, Dr. Blouw.

## Identifying Frail Patients and Connecting Them to the Interprofessional Teams

## Author: Tamara Stephens



## Streamlining the On Call Process at G.R. Baker Memorial Hospital

## Author: Wendy Fox







## **Patient/Customer:**

- Key learnings for myself was very enlightened and surprised to learn that the need for a standardized process is critical and that an electronic system eliminates the human error.
- "I hate working with paper ... so going electronic made my work efficient too and I can type faster and neater than I can write"
- "I find ByteBloc very user friendly. I love that the Doctors make their own changes and I always have the most up-to-date schedule. Saves me a lot of time'
- "Dr McDonald really likes the way the program works and would be great if OBS/C-Section/Surgery/Residential/Anesthesia could be set up this way too'

# Infectious Diseases Telemedicine Services in Northern British Columbia

Author: Sophie Walton



December 2017 Date:

Contact: Sophie Walton

### **Objective:**

To understand patient perceptions and uptake of the infectious diseases telemedicine service offered through the medical clinic of Dr. Abu Hamour in Prince George through the administration of a patient satisfaction survey and chart review.

### **Background:**

Telehealth allows the provision of a variety of healthcare services and improves access to services for people living in rural and remote areas (1). It is becoming an increasingly popular care tool with the number of clinical sessions doubling in BC from 2012 to 2014 (2). The majority of telehealth services offered in BC are clinical sessions and the most common sessions in Canada deal with mental health, neurology, oncology, pediatrics, and rehabilitation (2).

In 2013, the BC Centre for Disease Control Annual Surveillance Report on HIV identified that the highest rates of new HIV diagnoses were in the Vancouver Coast and Northern Health Authorities. Aboriginal peoples are disproportionately represented in BC's HIV epidemic (3). Additionally, telehomecare and chronic disease management have been identified as telehealth service areas deserving attention, especially in First Nations communities (4).

The use of telemedicine in the management of patients diagnosed with chronic infectious diseases in Northern British Columbia can address geographical and financial barriers to accessing specialist care.



## **Current State:**

Providing specialist follow up care for patients with HIV and Hepatitis C using telemedicine may help to improve continuity of care and patient outcomes. As such, the telemedicine initiative established at the clinic of Dr. Abu Hamour was initiated in January 2013 to enhance the follow up care provided to those patients in Northern British Columbia living with HIV and Hepatitis C, a portion of who identify as Aboriginal peoples.

The number of patients using the telemedicine service has increased annually. In total, 210 patients residing in Northern British Columbia have accessed the service and the telemedicine terminal has been used for 601 appointments. The majority (61%) of patients are aged 50-69 years old with a confirmed diagnosis of Hepatitis C (54%), HIV (11%), or a dual diagnosis (7%).

Primary email contact: sophie.walton@alumni.ubc.ca

Dr. Abu Obeida A. Hamour MBBS, MSc, MRCP(UK), DTM&H, CCST(UK), FRCP(Edin), FRCPC Consultant Infectious Diseases Physician Team Members: University Hospital of Northern British Columbia Clinical Assistant Professor, University of British Columbia

Sophie Walton, BSc Northern Medical Program M.D. Candidate, Class of 2018 University of British Columbia

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## **Patient/Customer:**

Patient's of Dr. Hamour that are living in remote places in Northern British Columbia and those using telemedicine services that Dr. Hamour provides.

## **References:**

Northern Health. (2016).
Environmental Scan.

- Information was gathered retrospectively from patients who used the telemedicine service Surveillance Report 2013, Accessed from
  - ort/default.htm

  - Acknowledgments
  - Northern Medical Program Office of Research Services,

## **Results:**

Solution:

Chart Review

Patient Satisfaction Survey

from January 1<sup>st</sup>, 2013 to July 21<sup>st</sup>, 2017.

Diagnosis, communities of residence along with the

terminal in the office of Dr. Abu Hamour was analyzed.

Specifically, use of the terminal and the number of

administrative scheduling hours were reviewed.

travel distance to the nearest Northern Health

telemedicine terminal and to specialist care was recorded. In addition, the usage of the telemedicine

Patient Satisfaction Survey Overall feedback was positive with 98% of respondents stating they would use

the telemedicine service again and would recommend this service to a friend. • 80% of respondents felt comfortable using the telemedicine terminal

As the use and breadth of telemedicine grows, it is important to establish open

project aims to do this in order to inform future care delivered by our clinic.

communication with patients to continually evaluate its successes and shortcomings. This

50 patient satisfaction surveys were administered by medical staff working at the office of

Dr. Hamour using a provided script. The accessibility of the telemedicine service, the

telemedicine technology and functionality of telemedicine as a care tool were assessed.

- 98% were satisfied or very satisfied with the quality of the visual image
- 98% of respondents could understand the medical advice given

### Chart Review

When looking at the distance patients must travel for medical appointments, 34% of patients live 100-299km from Prince George while a further 44% live 300-599km from Prince George. When using the telemedicine service, 88% of patients can attend their specialist appointment within their home community.

## Next steps / Sustaining the Gains:

- 1) Continue to foster the current infectious diseases telemedicine service:
- Telehealth enhances care delivery to underserved populations and is also a cost effective means of delivering care (5).
- One third of respondents stated they preferred in person medical consultations to telemedicine appointments; however, 94% of respondents felt it was extremely important or important that a telemedicine consultation was an option for patients.
- 2) Develop solutions to address the greater administrative time needed to book a telemedicine versus an in person appointment.
- 3) Improve access to specialist healthcare in Northern BC through continued promotion and improvement of local telemedicine services by working with key stakeholders.

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Telehealth Programs, Project, and Services - Lessons Learned: An

(2) COACH: Canada's Health Informatics Association (2015). 2015 Canadian Telehealth Report. COACH: Canada's Health Informatics Association. Toronto, ON.

(3) British Columbia Centre for Disease Control. (2015). HIV in British Columbia: Annual http://www.bccdc.ca/util/about/annreport/default.htmhttp://www.bccdc.ca/util/about/

(4) Lavoie J G, Sommerfeld M, Mitchell J, Rossetti E G, Kennedy N, Horvat D, Crawford P, Manahan C, Wood K. (2010). Supporting the development of telehealth for British Columbia first nations riving on reserves: A review of existing evidence. Accessed from

(5) Boissin, C., Fleming, J., Wallis, L., Hasselberg, M., & Laflamme, L. (2015) Can we trust the use of smartphone cameras in clinical practice? Laypeople assessment of their image quality. Telemedicine Journal and E-Health, 21, 887-892. doi: 10.1089/tmj.2014.0221

Tamara Checkley, Research and Evaluation, Northern Health







Figure 1. Time patients report spending commuting to nearest refersedicine terminal for medical appointment

# Canadian Foundation for Healthcare Improvement Connected Medicine Collaborative: Physician Learning Experiences

Authors: Dr. Anurag Singh, Dr. John Pawlovich, Dr. Abu Hamour, Dr. Haidar Hadi, Janice Paterson and Tiegan Daniels



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.cms	30% 80% 6 Percent of Physician Par	on, aon, soon ticipanta (n=4)

## Knowledge is Power: Strengthening Chronic Obstructive Pulmonary Disease Patients with Support and Education

## Author: Dr. Denise McLeod



Team Members: Dr. Denise McLeod, Johanna Tolsdorf (MOA), Dr. Sharla Olsen (Respiratory Therapist), Roberta Miller (Primary Care Team Lead), Annick McIntosh (Primary Care RN), Karen Gill (Practice Improvement Coach), Shelley Movold (Facility Improvement Coach)

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## **Patient/Customer:**

Patients living with COPD that were part of Dr. McLeod's practice.

"No. Still trying to understand what COPD is and what causes it?" "Would not take up a valuable spot and have another patient with COPO partake" Present results at a Family Practice Rounds or Divisions of Family Practice Speak at the Practice Support Program COPD Module for the Divisions of

Begin a second group of GMVs for people living with COPD in my practice.

# Northern Haida Gwaii Hospital Emergency Department Organization Project (5S)

Authors: Dr. Caroline Walker and Lisa Froese



## **UHNBC Emergency Department and the Lab Quality Improvement Project**

Author: Dr. K. Cunniffe



# **UHNBC Emergency Department** and the Lab Quality Improvement Project

## **AIM STATEMENT**

To improve the variability in the time it takes for physicians to receive their lab work results by 30% by April 2019 in the UHNBC Emergency Department.

## BACKGROUND

Physicians and others have raised concerns with the lab's response time to providing blood work results in the Emergency Department (ED) at UHNBC. Lab staff have not had significant increases to the number of full time equivalents in the department over a number of years despite large increases in the workload. This has led to an increasingly stressful work environment and stresses to other parts of the hospital system.

## PROBLEM STATEMENT

There was too much variability in the amount of time it took to get lab results once the ED physicians ordered them. It could take anywhere between 36 minutes and 5 hours to get lab results. The median amounts of time for each step in the process, from the labs being ordered to the labs being verified and ready for the physicians, is seen in the table to the right.

	2016	2017	2018	Difference from 2016 - 2018	% Change
Blood	1089063	1095899	1148934	59871	5.5%
Body Fluid	2390	2845	3169	779	32.6%
CSF	757	663	905	148	19.6%
Hold	4635	7202	8521	3886	83.8%
Whole Blood	19577	21258	23021	3444	17.6%

In the last 3 years, there was a significant increase in the workload for the UHNBC lab department, as can be seen in the table above.



In addition to the blood work that the lab assistants needed to collect, they were also responsible for performing the ECGs that were ordered. The volume of



Sample Inalyze

## **CHANGE IDEAS**

To trial having two extra lab assistants; one would help improve lab response time in the ED and the other would help with earlier sample collection throughout the hospital. The ED would be supported with an extra lab assistant during peak ECG times based on analysis of ECG ordering patterns: • 1500-2300 Monday to Friday / 1300-2100 on Weekends

the last 3 years.



A morning lab assistant would support early discharges from the rest of the hospital and the ED • 0600-1000 (7 days a week)

Also noteworthy: having extra lab assistants ensures that lab technologists remain in the lab to expedite sample processing, rather than being called away to help with sample collections.

# ▶ RESULTS

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The variability in the amount of time it took to get lab work results improved to a range of 35 minutes to 3.5 hours. There was improvement seen in the percentage of cases done in a specified time period across the board.

ercentage Cases	Baseline	Pilot
ess than 1 hour	21%	38%
ess than 1 hour 30 min	68%	75%
Great than 2 hours	9%	6%
Freater than 2.5 hours	3%	1%

In addition to the ED, the entire hospital benefitted from the trial because morning lab work was available earlier to help physicians make decisions about discharge while doing their morning rounds. On the surgical floors complete lab work was available for review by 0809 (median time) which was an improvement from 0935 (median time) prior to the trial

### Pilot Feedback from the Emergency Department





# GAINS

sustain the changes

### **NEXT STEPS...**

under 1 hour overcapacity issues

# **TEAM MEMBERS**

Dr. Kathleen Cunniffe (ED Physician), Dr. Melissa Dymond (ED Physician), Roma Toor (Diagnostics Manager), Darcy Hamel (Manager High Intervention), Caroline Perrin (Specimen Logistics Charge Technician), Laura Elsenheimer (Chief Technologist Laboratory UHNBC), Shelley Movold (Physician Quality Improvement Coach)

# ▶ NEXT STEPS / **SUSTAINING THE**

The project was hugely successful with physicians and staff; a business case is being developed to

1. Improving the percentage of ED labs available in

2.Ensuring lab results are available in the early morning to enable earlier discharges, improve hospital-wide patient flow and help with

3.Continue to examine the optimal times of day to have extra lab assistant shifts

**PRIMARY EMAIL CONTACT:** cunniffek@gmail.com SECONDARY EMAIL CONTACT: shelley.movold@northernhealth.ca

# **Reducing Readmission Rates of Frail Elderly Patients at G.R. Baker Hospital**

## Author: Dr. J. Fine



# **Rapid Assessment Zone (RAZ)**

Author: Dr. Laura Brough



# **RAPID ASSESSMENT ZONE (RAZ)**

# **QUALITY IMPROVEMENT TRIAL** FEBRUARY 4TH - APRIL 30TH, 2019

## BACKGROUND

The Rapid Assessment Zone (RAZ) Additional geographic space next to the acute care Emergency Department (ED) Currently operates 1300-2100, 7 days Designated ED physician and ED Nurse

 Assesses and cares for CTAS Level III patients (no telemetry or resuscitation capacity)

and the set of the set			
a week	CTAS II	Emergent	=<15 mins
se.	CTAS III	Urgent	=<30 mins
n	CTAS IV	Semi-Urgent	=< 1 hour
	CTAS V	Non-Urgent	=<2 hours

Canadian Triage Acuity Scale (CTAS)

## PROBLEM STATEMENT

UHNBC experiences capacity issues and the ED struggles with flow challenges. The importance of moving patients through the system in as efficient a manner as possible is tremendously important. It has been observed that the number of CTAS III (RAZ appropriate patients) has slowly been increasing over the years. In particular, the morning hours from 0900-1300 have a large number of patients that could be seen in RAZ, if it were open. By the time RAZ opens at 1300, there is a backlog of patients waiting to be seen. This leads to frustrated patients and a more difficult, stressful working environment for staff and physicians.

# ► CHANGE IDEAS

 Increase RA7 hours by 4 hours per day, 7 days a week • Trial held for 12 weeks (February 4th- April 30th, 2019) • Open from 0900-2100 (instead of 1300-2100)

► PATIENT/ CUSTOMER

• Lower acuity CTAS III level patients



# RESULTS

As a result of the trial, wait times to see a physician, for RAZ patients, decreased by over 1 hour from 0900-1300. Likewise, all other ED patients experienced a decrease in wait time to see a physician from 0900-1300 (grey line in graphs below). From 1300-2100, when there was no changes trialed, there was no significant difference in wait times.

### Median Wait Time of Non-Raz CTAS 1 & 2 Emergency Patients at UHNBC Feb 4th - April 28th



1:00 cm 12:00 pm 1:00 pm 2:00 pm 3:00 pm 4:00 pm 5:00 pm 6:00 pm 7:00 pm 8:00 pm

In addition, the length of time spent in the ED was decreased for RAZ patients, therefore improving flow.



Median Wait Time to see a Physician for RAZ Patients Feb 4 - April 28



00cm 1200pm 100pm 200pm 300pm 400pm 500pm 600pm 700pm 800pm

# COMMENTS FROM

# **NEXT STEPS / SUSTAINING THE GAINS**

• To work towards sustaining this trial as it was well received by physicians and staff. An APP funding request has been submitted to request a permanent increase in physician time for RAZ, as well as a business case to support Northern Health Nurse time.

• Continued work is underway in the ED to look for ways to deal with improving the flow of patients through the ED and help with UHNBC's overcapacity issues.

Median Length of Stay for RAZ Patients

Feb 4 - April 28

### PRIMARY EMAIL CONTACT: laura.brough@northernhealth.ca

TEAM MEMBERS: Dr. Laura Brough, Dr. Devin Spooner, Dr. Patrick Rowe, Dr. Patrick Turner, Dr. Matt Janzen, Dr. Kathleen Cunniffe, Dr. Amy Johnson, Rita Sweeney, Belinda Maidment, Laura Wessman & All ED Nurses



# ► SURVEY OF PHYSICIANS **AND STAFF IN THE ED:**

Physicians and staff were very supportive of the pilot and when surveyed about their feelings towards the pilot, had many good things to say.

### To what extent did the extended hours...



# **PHYSICIANS AND STAFF:**

• "earlier start has fundamentally changed the at ER, less stress for ER Dr, less stress for triage knowing flow will improve, less dissatisfaction for patients re wait times" • "most importantly it's helping the overall morale for the squad" • "patients less grumpy which makes my job more pleasant

## **Routine Offering of HIV Testing for Acute Care Patients in Northwestern BC**

Author: Dr. Denise Jaworsky



- Every 5 years, to individuals 18-70 years
- Annually, to individuals 18-70 years belonging to populations with a higher burden of HIV Whenever ordering bloodwork for a new or worsening medical condition

The lower mainland's STOP HIV work has shown that routine offering of HIV testing in the hospital environment is acceptable and effective (inpatient testing increased from 3.3% to 19.2%)

# PROBLEM STATEMENT

### In 2017, 4,711 people per 100,000 (4.7%) in Northern Health were tested for HIV<sup>1</sup>

• Excludes point-of-care and prenatal testing Provincial average was 5,963/100,000 people (6.0%)

42.6% of people living with HIV in Northern Health's catchment area were virally suppressed<sup>2</sup>

 Below provincial viral suppression rate of 64%



## ► CHANGE IDEAS

Routinely offer HIV testing to all adults admitted to acute care settings (Medical/Surgical Ward, Intensive Care Unit) at Mills Memorial Hospital in order to increase rates of testing in this population. Plan-Do-Study-Act cycles were utilized to develop and modify the intervention of offering routing HIV testina

### Steps in this quality improvement project:

- 1. Develop a local process of delegated follow-up
- 2. Formation of stakeholder advisory group - Advise on education needs - Ensure messaging is appropriate for community Provide input on ways to increase testing

- 3. Build local HIV capacity and education
- AIDS service organization visits - HIV training sessions for physicians, nurses and community organizations - Community education programs - Preceptorships for care providers - Physician newsletter article - HIV resource board for nurses
- 4. Implementation of routine offering of testing
- 5. Evaluation - Project data reviewed at 3, 6 and 12 months - Proportion of individuals who received an HIV test during their inpatient stav

# **Routine Offering of HIV Testing** for Acute Care Patients in **Northwestern BC**

## **PROJECT AIM**

To increase HIV screening of patients 19 years of age and older in acute care (Medicine, Surgery, Intensive Care Unit) at Mills Memorial Hospital to >20% by December 31, 2018.

RATES OF HIV TESTING AT MILLS MEMORIAL HOSPITAL



## PATIENT/CUSTOMER

This project addresses the Northern Health strategic priority, "Healthy People in Healthy Communities" and involvement of patient and community stakeholders was essential. The stakeholder advisory group consisted of representation from:

### • Patient partner

- Health Directors multi-nation representation
- Community service providers Public Health nurses
- Community research associate
- Family physician
- Specialist physician

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The stakeholder advisory group guided the project and helped

to ensure that the project represented the interests and needs of community members.

# TEAM MEMBERS

Holly (Gitsdi motx') Harris, Kyle McIver, Ciro Panessa, Lee Cameron, HIV Community Advisory Board **ACKNOWLEDGEMENTS:** 

HIV/AIDS

materials

### PRIMARY EMAIL CONTACT: denise.jaworsky@northernhealth.ca SECONDARY EMAIL CONTACT: physiciangi@northernhealth.ca

**REFERENCES:** 1. STOP HIV report: BC Centre for Excellence in HIV/AIDS. http://cfenet.ubc.ca 2. Lourenco L, et al. High levels of heterogeneity in the HIV cascade of care across different population subgroups in British Columbia, Canada. PLoS One 9(12): e115277

# ▶ NEXT STEPS / **SUSTAINING THE GAINS**

• Continue Plan Do Study Act (PDSA) cycles to further increase HIV testing rates

• Community HIV education events and educational

 Developing client-initiated testing (clients requesting tests in addition to providers offering testing) • Increased nursing and other health professional engagement

Developing strategies to increase testing in other settings Community settings

• Other hospitals in region

Ashley Stoppler, Candice Manahan, Dee-Ann Stickel, Andrew Gray, Raina Fumerton, Mark Hull, ICMT Team, Terrace Public Health, Northern Health, Jasmine Pocha, STOP HIV/AIDS, BC Centre for Excellence in



## St. John Hospital Endoscopy Clinic Quality Improvement Project

## Author: Marna deSousa



Team Members: Dr. Sean Ebert, Dr. Alison Fine, Mary Sommerville, Marna deSousa, Jennifer Little, Heather Goretzky

# **CMOIS Care Plan Folder Use Improvement within Prince George Inter-Professional Teams**

## Authors: Julie Creaser and Jerry Daoust



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## **Community Psychiatric Referrals Improvement Initiative**

Author: Dr. Hezekiah Agboji



Team Members: Loni Carreiro, MOA; Gina Predan, Team Leader; Wendy Corbett, Manager Community Services; Christine McCann-Facilitator; Dr. Furstenburg Chief of Staff, Dr. Grapes, Deputy Chief of Staff; Dr McDonald; Dr Obanye

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## Patient/Customer:

As there was no direct patient contact in this project, the customers are administrative staff, team leader, manager and family physicians who are directly involved in the referral process. Survey was carried out to seek the opinions of the family physicians involved in the project using a Likert scale questionnaire. 100% of people surveyed were "very satisfied" with the new referral pathway.





# Enhancing the Dining Environment at Gateway Lodge

## Author: Lindsay Kraitberg

Contact: Lindsay.Kraitberg@northern	health.ca	JALITY IMPROVEMENT	
Date: Winter/Spring 2017		Enhancing the Dining Environment	t at Gateway Lodge
Background:		Solution:	apato provide
Globally, malnutrition affects 12%-54% of residem intake. Malnutrition can lead to negative health of ulcers, reduced function and cognition, hospital a hospital and death. Intake may be increased by implementing nutritic between meals. <i>However, recent research show</i> <i>includes both physical and social factors can in</i> Why is this important? Out of approximately 1500 beds in total, Norther decreases health status and quality of life but als admissions and extended lengths of stay in hospit <b>Objective:</b> Driginal Project Objective : Evaluate current overall dining environment in using the adapted CHOICE+ Mealtime Practices six principles: Definition for the second of the second of the Definition	e enhanced for residents at Gateway Lodge by	To achieve the objective and aim, the following lean tools were Going to the Gemba & Collecting Data: To determine the curre Gateway Lodge, the QI team observed 9 meals (three breakfast in one dining room and used the CHOICE+ tool to determine if t few or no meals, some meals, most meals or every meal. Mealt meals were highlighted successes. Those occurring at a few or n guidelines for areas for possible dining environment improveme Letter grade "A" = practice was observed at every meal - score Letter grade "B" = practice was observed at most meals - score Letter grade "C" = practice was observed at some meals - score Letter grade "D" = practice was observed at only a few or non Kaizen: In order to involve all disciplines who contribute to the event was held. During the Kaizen, dot voting was utilized to di improvement. Although the group voted on other areas to impro unnecessary distractions was chosen as a focal point. A working and dig into the issue of distractions Going to the Gemba & Collecting Data (again): Following the K determine the time, nature and number of "unnecessary distract breakfast PDSA: Following another round of data collection, the protected further brainstorm how to reduce distractions in the dining room opportunity was identified to slightly alter the laundry/houseked and carts from going through the dining room during meals.	ent state of the dining environment at ts, three lunches and three suppers) in total the mealtime practices were occurring at a time practices occurring at every and most no meals and some meals were used as ents. ed if observed 100% of the time red if observed 50-99% of the time meals - scored if observed 0-15% of the time etermine where to focus efforts for ove, protecting mealtimes by minimizing g group was developed to further brainstorm Kaizen, additional data was collected to ctions" occurring in the dining room at ed mealtime working group got together to m. In looking at the observations, an
Current State: The Overall Dining Environment using the adapted CHOICE+ Mealtime Practices Checklist	A. Distractions in the Dining Room Manufacture plants to long them they are marked to the second to long them they are marked to the second to long them they are marked to the second to the s	Results: Original Project Objective Results: The QI team was successful in evaluating the current overall dining environment in one side of the main floor dining room. This provided baseline information about the strengths of the dining environment and also identified areas to improve. Aim Related Results: A 35% reduction of unnecessary distractions was observed in the main floor dining room at breakfast. Of particular note, linens were not delivered and laundry was not collected during the breakfast meal, contributing positively to the dining environment. Staff have reported an increased awareness of unnecessary distractions in the dining room, including walking through when it is not making a positive contribution to the mealtime.	Average of 6.5 distractions observed between 8:00 - 9:00am     Average of 6.5 distractions observed between 8:00 - 9:00am
	Average of 10 distractions observed between 8:00 - 9:00am	Next steps / Sustaining the Gain: Sustaining the Gains: 1. Continue regular meetings with Protected Mealtimes Working 2. Attend Resident Council Meetings to involve residents in furth 3. Identify staff member from Gateway to enroll in next cohort Next Steps/Moving Forward: 1. Spread Plan: Evaluate dining environment in other dining roo 2. Greater involvement of the Voice of Customer (VOC) via Res	g Group at Gateway to continue PDSA cycle her dining environment initiatives of Intermediate QI oms at Gateway Lodge so that staff can learn from each other

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Secondary email contact: Erin.Branco@northernhealth.ca

\*Note: Collection of the current state data was used as a dietetic intern research project and will be showcased at the upcoming Dietitians of Canada Conference as part of the Canadian Foundation for Dietetic Research poster presentations

Team Members: Lindsay Kraitberg (RD), Erin Branco (RD), Kelly Bogh (Dietetic Intern), Laurel Burton (Dietetic Intern), Stefanie Finch (Project Sponsor) Sharon Heudes (Food Service Supervisor), Sandra Barnes (CPL), Helena Harris (Rehab Assistant), Gloria Kerr (Activity Worker), Fikirte Mekuria (LPN), Joanna Garbutt(LPN), Haley Hillen (Care Aide) Cindy Wang (Food Service Worker), Jody Shul (Social Worker), Rhonda Rosler (Houskeeping/Laundry Supervisor), Kat (Resident), Marilyn (Wife of Resident), Shirley (Wife of Resident)

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One resident and two resident family members participated in a full day Kaizen event to help determine how the dining environment could be improved.

## Implementing Standardization for Adult Patients with Eating Disorders

## Author: Eating Disorder Team



## Improving Responsiveness to Client Needs in Mental Health and Addictions Services

## Author: Stephanie Rex



Team Members: Kaizen #1: Arkell Wiley, Michelle Rhondeau, Scott Taylor, Merel Pilgrim, Darryl Anderson, Dorianna Pantsuno, Deb Nordal, Gord VanMulligan, Marlane Mackie, Marina Ursa, Craig McQuarrie, Jeff Talbot, Dr. Fabriel-LeClerc, Graham Hall; Administrative support staff provided input separately: Cindy Bazuik and Sarah Barnesl; special thanks to Doug England (my scribe).

Kaizen #2: Maria Teiero, Darryl Anderson, Scott Taylor, Jeff Talbot, Dorianna Pantsuno, Michelle Rhondeau, Craig McQuarrie, Marlane Mackie, Camille Colbert

# Leaner Planning and Performance Improvement Reporting: A Partnered Exercise

## Author: Milad Fathi



 Considerable number of manual processes and minimum economies of scale in report production



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The current infrastructure of the Centralized Indicator Repository can support report production to a certain extent. However, to fully streamline the reporting process minor tweaks are needed. These changes mainly revolve around various classification fields that assign indicators to management levels and reporting projects. As per estimations of the IT department, work on these changes is expected to be

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In the final, 3-hour Kaizen event, the future state process map and the new use cases for the technologies were showcased, and the ownership was officially transferred over to project sponsors (who are also the team leads). The team agreed on following the new procedures and

technologies for producing reports. It was also decided to perform reviews of them system at least semi-annually to evaluate the proposed

finished by August 2017. The expectation is for the application to be fully utilized for the majority of team's reporting by that date. Once utilized, the prediction is to be able to surpass the 40% project time reduction goal that was set at the beginning for the project.

Team Members: Milad Fathi, Deb Nielsen, Bonnie Urguhart, Faramarz Kashanchi, Andreas Hirt, Zdenka Masarova, Farzana Amin, Dee-Ann Stickel, Yaser Ahmed, Bobby Demerchant, Kafui Monu

system and make adjustments accordingly.

# **Regional Community Plan of Care Redesign**

## Authors: Dori Pears and Cathy Czechmeister



# Fleet Vehicle Coordinator Orientation/Cheat Sheet

# Author: Jessica Belyea

Unit Name:	HSBC Building 4 <sup>th</sup> Floor Business Development	LEAN STORY BOARD	
Contact:	Business Development	itles Fleet Vehicle Coordinator Orientation (Chest Sheet	
Date:	July 2014	itle: Fleet Vehicle Coordinator Orientation/Cheat Sheet	
Object	A High volume of phone calls and emails are sent to Coordinator of Fleet Services and Transportation everyday. Many of the new vehicle coordinators are trained by previous coordinators or are not trained at all. Processes are not followed and invoices are paid incorrectly. Lots of confusion and inquires creating extra workload for everyone. Information is available but takes time to find the answer in fleet binder or on lportal (Ournh). Vehicle coordinators are managing vehicles off the sides of their desks. Identify where there are misunderstandings and unknowns for managing a fleet vehicle. Track the issues from phone calls and emails in a spreadsheet. Use this information to create a single document for vehicle coordinators to increase competency and decrease workload from 28 inquires to 15 per week. By July 2014 the volume of questions from coordinators to Fleet services will be reduced by 13 (or from 28 to 15). By July 2014 the amount of time it takes to answer questions and resolve issues with vehicles will be reduced by 4 mins (or from 5 mins to 1 min).	Solution: Some calls and emails are expected but minimum is preferred in order to make time for other Business Developm vehicle coordinator questions was created and tested with existing coordinators for feedback then rolled out to a feedback. An initial, much larger, document was created but soon set aside after it was confirmed that most do rough the same issue. $Feet Coor_{Manual NHA}$ They provide the information but in greater detail. The one pager was created with lots of links if further inform monthly with the odometer reminders. With a better streamlined processes and clearer instructions on how to manage vehicles end users should have a while using the vehicle they can contact the vehicle coordinator who will now be able to provide a quick answer	all coordinators. British Colu not have time to go through ation is needed. It is availat safer, more reliable vehicle
Backg	ound:	Tracked Phone Calls and Emails	
make profits 2010 and mor operations in manage their Fleet Operativ with all the p coordinators through a bin	elopment is responsible for an assortment of projects and programs that either or create efficiencies. Business development took over Northern Health's fleet in red the entire maintenance program from PHH to BC Ambulance Services - Fleet 2012. There are approximately 80 coordinators in Northern Health and most portion of the 180 vehicles off the sides of their desks. It is the Coordinator of ons and Transportation who identified that there are still lots of enquires even roper change management and communications. The main issue is that rarely have to do anything with the vehicle and when they do they have to look der or on Iportal (Ournh) so they either call or email to get a faster response. ems to be a lot of turnover in some of the positions that coordinate vehicles as	May-14 Jun-14 Jul-14 Jan-17	
wett.		Results:	
Vehicle coord or make their trained at all If the proper safety issue f The inquires Vehicle coord main job task primary/adm positions of n Mass fleet ind a maintenand issue is that f	safety procedures and maintenance protocol are not followed it could become a or staff, patients or even the public. have been tracked and there were 28 emails and calls in May 2014 of tracking. inators positions are of a variety and the fleet vehicles are secondary to their s. There is also higher turnover for some of these positions. Some examples are in assistants and support or coordinators and clerks. Less turnover is in the haintenance personnel, assisted living workers, LPN's and RN's. quiries is a Business Development issue but a relatively new one. Before there was e program, there were was no streamlining of processes. The root cause of the here is a large group of high turnover employees and a completely new	The new form made it easier for training purposes and also decreased the frequency of phone calls and emails (see tracked phone calls and emails chart). Less time explaining the process for the vehicle coordinator means they will have more time to provide patient care or support to those who provide patient care. It also means that the vehicles will be maintained and safer for patients and employees. Vehicles that are maintained properly will generally last longer and contribute to cost savings. The total amount of emails/phone calls was reduced by 75% in the first 3 months of implementing the document. However it is noted that this changed occurred during the summer months and therefore could contribute to the "success." In January of 2017 results were similar to July 2014 so results were sustained. Aim statement met and maintained.	May-14 Jun- Emai
maintenance		Next steps / Sustaining the Gains: Continue to update the document as needed for questions that might become more common. It is expected to change as more maintenance program becomes common knowledge around Northern Health there might not be a need for some of the Quarterly teleconference meetings are being done to engage the fleet coordinators for ideas and to answer common question regional groups so information sharing isn't overwhelming and topics are generally relatable. The added bonus of these meetings. A new way of recording/tracking odometer readings has been created and seems to "catch" turnover a little better. Coordinators spreadsheet. A reminder is sent out a couple of times a month to a fleet coordinator distribution list to let coordinators know. This document is helpful for all fleet related projects. It has been updated and shared with vehicle coordinators since it's d	information in the documer ons in a different form of co etings is coordinators connect nators enter their odometer r ow to enter their odometer r lebut. It has been shared wit
		responsibilities/expectations of the coordinators. The coordinator of Transport and Fleet Services will have to continue to u	

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Team Members: Jessica Belyea, Renee Middleton, Suzanne Denluck, Ed Wilson



## The Importance of Clerical Efficiency in the World of Food Services

## Author: Justin De Medeiros



## Chronic Disease Management – Evaluation of Diabetes Process and Billing at the Northern Haida Gwaii Hospital & Health Centre

Author: Denise Cerqueira-Pages



## Next steps / Sustaining the Gains:

The CDM-Diabetes process and billing are very important to the Masset Clinic. The team (site manager, physicians, PCAs, NP, dieticians and Practice Support Coach (PSC) will continue to monitor all the CDM-diabetes processes and each member will be responsible for part of the process such as scheduling ADR, updating notification recalls and incentive claims, reporting billing overdue and submission to MSP, and making sure all the steps of this process are correct. After September 2019, a new cycle of this process will start and the team hope to continue to have satisfactory results in terms of proactive care and revenue back to the clinic. Furthermore, the team intends to start reviewing the billing and process for Chronic Obstructive Pulmonary Disease (COPD). Heart failure and Hypertension

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Team Members: Denise Cerqueira-Pages- Practice Support Coach, Jody Johanson - Practice Support Coach/EMR Specialist, Cindy Lowrie, Rowena Scheck, Lyn Mcalpine and Tina Vanderlinden-Primary Care Assistants. Caroline Walker, Michelle Leslie, Michel Daoust-Wheatley, Nanamma Maughn, Jocelyn Black, Tasha Maheu and Catherine Wong-Physicians, Kirsten Hood-Nurse Practitioner, Theresa Harris- Dietician, Lorraine Nelson- Administrative Assistant and John Short- Site manager and sponsor.

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hows that 131 patients registered on MSP 41 were billed more han 60 days, six were never billed and 84 were overdue to bill to

Graphic 1-The NHGHHC starts receiving payment in 2014, however the number in dollars decreased in 2017 and first months in 2018.



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Iorthern Haida Gwaii Hospital & Health Cent