



Dr. Aaron Smith, Westville Medical Clinic

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Westville Medical Clinic

Location : Northern Zone, Nova Scotia Providing Service to : Westville, Pictou Counties, New Glasgow

The Team :

Core – 3 Physicians, 2 Nurse Practitioners, 2 FPNs Allied Health – Psychologist (specialized in Geriatric), Psychiatrist, Dietitian Administrative – Administrative Lead, Clerical Staff

Staff Meetings : Weekly

Partnered with for Research

- NSHA
- Dalhousie Industrial Engineering (IE)



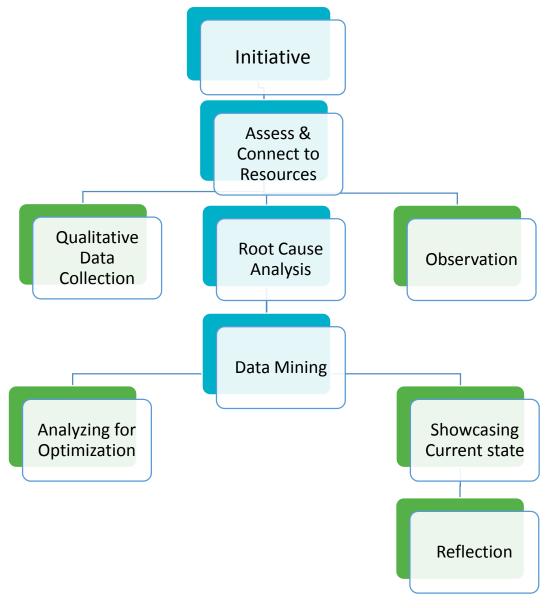




Quality Improvement Initiative

- Initiative: Improve Access for Patients
- **Connections**: Community Resources, NSHA for Research Opportunity
- **Potential Cause**: Understand Team Roles and Team Capacity
- Data Mining: Booking data, observations, anonymized billing data

Tasks	June	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	Мау	June	July	Aug
Understand														
Data Collection														
Analyze														
Optimization Modeling														
Feasibility														
Suggested Improvement														



Gantt Chart

Use of Data

- Available Sources EMR appointments, Time Studies, shadowing, FTE
- Extractable Data Working hours, Cycle Time (appointment length), total number of patients in clinic, frequency of patients accessing the clinic
- Calculatable Data Utilization, Overflow Frequency, Demand Rate per Patient, Panel Size, Forecasted Demand, Frequency Classification of patients



	Availability (based on EMR)										
	<u>Provider</u>		<u>"Slots"/c</u>	day	<u>Appt/18</u>						
	Provider A	/	31		5239	5239					
	Provider E	3	33.75		5703.75						
	Provider (2	29.67		2878						
Utilization & Overflow											
	İ		vider A	Provider B		Provid		ler C			
		Avg.	Max	Avg.	Max	Avg	Avg.]		
	<u>Utilization</u>	1.45	1.45 1.90		1.70	1.67	1.67 2.19				
		Provide	r A	Provider B		Provider C		С			
	storical Appts er 18 month	7636		7399		4985					
	ailability bas E in 18 mont	5239		5704		2878					
-	prox. Panel cluding out of clir	nic)	2155		1543		1430				
	lditionally sea tients (cross cov		77		244	75					

Impact and innovation

- An established and well documented method for data extraction and data use adaptability and spreadability
- Data presented is small aspect of the broader research study, however of high relevance to clinical team in understanding capacity
- Application of results will lead to considerations such as group visits, virtual medical home, complex patients rostered equitably across
- Self-awareness for team on current state performance



Considerations for Use of Data and QI

Challenges

- Pending switch over of EMR
- Change of staff members
- Data access, anonymized data

Opportunities

- Academic collaborations, across many disciplines and timelines
- Connection and communication removes risk of duplicate work
- Innovative use of data in understanding capacity and access issues



Key Learnings & Opportunities

- Get the ball rolling on data that is available
- Be optimistic and available towards new partnerships and collaborations



