# Practical Quality Improvement (QI) in the World of EMRs Vineet Nair, MD CCFP

**OntarioMD Peer Leader** 

### Faculty/Presenter Disclosures

- Faculty: Dr. Vineet Nair

## **Disclosure of Commercial Support**

- Commercial Support
  - None
- Potential for Conflict(s) of Interest
  - Dr. Vineet Nair receives payment via OntarioMD Peer Leader Program for consultations and practice engagements

Objectives

#### 1. Understand Practical Elements of QI

### 2. Learn Strategies for Implementing QI

3. Discover High Value Targets for Improving EMR Usage

#### White Rock, BC

#### Vancouver's Best Places

https://vancouversbestplaces.com/metro-vancouver/white-rock/







http://www.hqontario.ca/Portals/0/documents/qi/primary-care/qi-aae-interactive-workbook-en.pdf



#### Institute for Healthcare Improvement

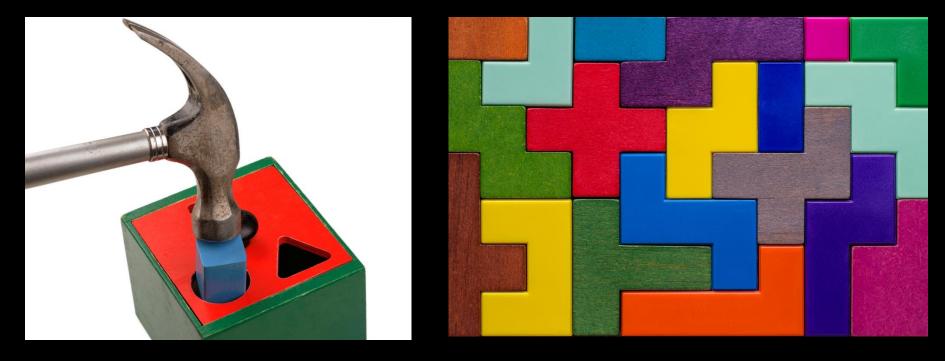
" Everyone in health care has two jobs when they come to work; to do their work and to improve it. This is the essence of Quality Improvement (QI)."

- Paul B. Batalden





### How does QI fit into our practice?

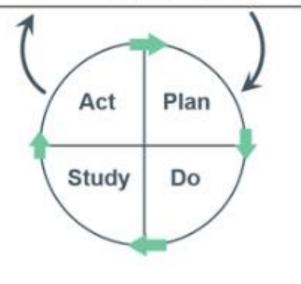


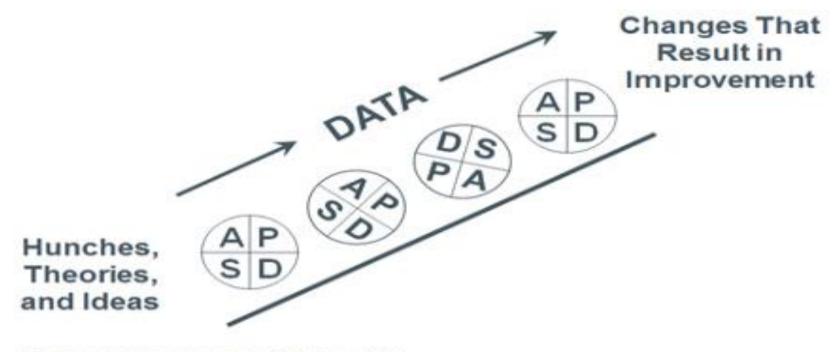


What are we trying to accomplish?

How will we know that a change is an improvement?

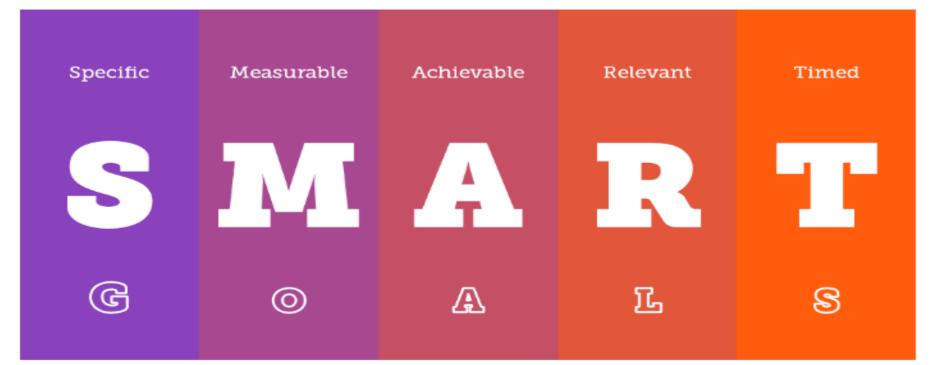
What change can we make that will result in improvement?





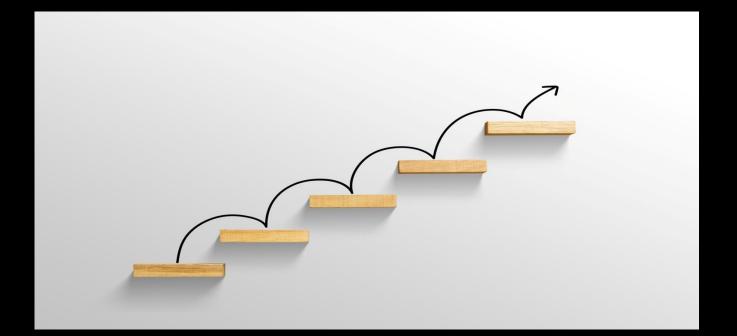
Source: The Improvement Guide, p. 103

http://www.ihi.org/resources/Pages/HowtoImprove/ScienceofImprovementLinkingTestsofChange.aspx



https://blog.weekdone.com/smart-goals/

### What are the principles of QI?





## WORKFLOW

### RESOURCES

1 R

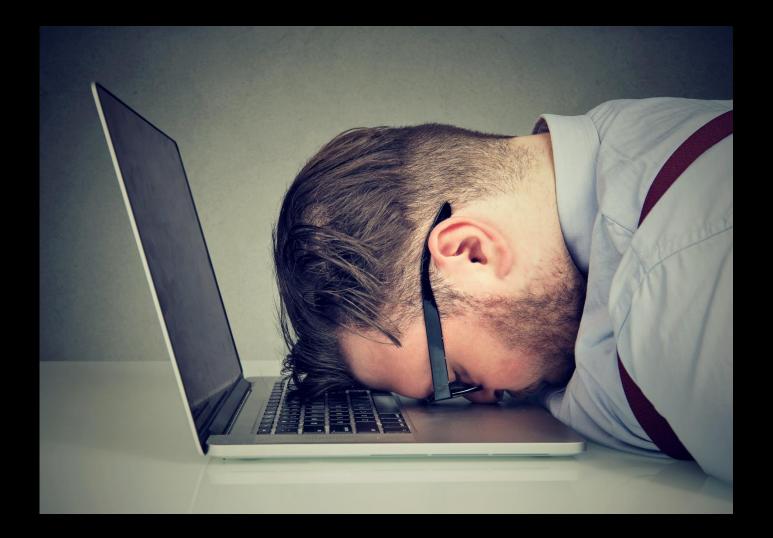
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#### COMMUNICATION

## SYSTEMATIC

61





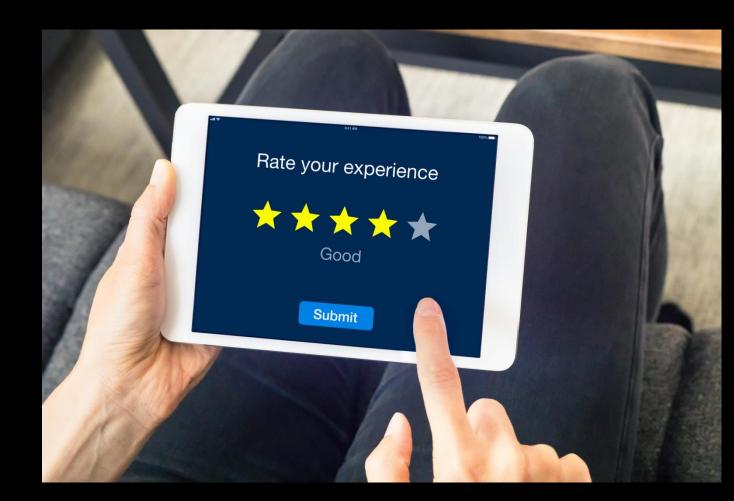
### PLAN

SPECIFIC MEASURABLE ATTAINABLE RELEVANT



### DO

### STUDY





### ACT



Ministry of Health and Long-Term Care

Information and **Procedures for Claiming the Cumulative Preventive** Care Bonus





		Accuro CMS4 2017.01 - Core Family Health Centre ***Client Services - 1.866.729.88	39***		- 0 ×
Patie	ent: Test, Sally 1976-Jul-05 (	(42 Yr female) H# 1111 119 9999 Provider:		Core Fam	ily Health Centre
Hom	e#(519) 888-8888 Work#(5	519) Mobile#(519) Roster:Not Enrolled		<b>A</b>	Dr. Vineet Nai
õ	Day Sheet Encounter Notes	Chronic Conditions Virtual Chart Medications Medical History Patient Information			
U			_		
7	Patient 💙 Test, Sally	✓ 42 years old female FilterAll Items	<ul> <li>Provid</li> </ul>	lersAll	<b>•</b>
1		*VN - Referral	0	🖹 0 🖹 🔗 🖶	
•		2018-May-16: Opioid Medication Treatment Agreement		History of Problems	🕀 🥒 ^
	Provider: Nair, Vineet 2018-May-16 OPIOID MEDICATION TREATMENT AGREEMENT I, Sally Test, understand that I am receiving			2017-Sep-28 HYPERTENSION	
_		opioid medication from Dr. Vineet Nair to treat my pain condition. I agree to the following: I will not seek opioid		Active Medications	0 🛧 🧪
\$		medication from another physician. Only Dr. Nair will provide opioids for me		2018-Feb-05 MAVIK 2 MG CA	
ô		2018-May-09: To whom	Q	Capsule(s) Once daily x 90 Day(	_
Ο		Provider: Nair, Vineet		2018-Jan-24 VAPO-BISOPRO	
		Dr Vineet Nair 825 Richmond Street London ON N6A 3H7 (519) 963-1875 (519) 963-1880 2018-May-09 Regarding: Sally Test 825 Richmond Street London ON N6A 3H7 (519) 888-8888 To Who	om it	TABLET 1 Tablet(s) Once daily x	
	may concern:			2018-Jan-19 LIPITOR 20 MG Tablet(s) Once daily x 90 Day(s)	TABLET 1
					G
		Drovidor: Nair Minoot	Q	TABLET 1 Tablet(s) Once daily x	
		Labs 🔍 🕅 🚮 😯 🇪 Physical History	~	2018-Jan-17 PLAVIX 75 MG T	ABLET 1
		Result 2018-Mar-07 2018-Jan-22 2017-Nov-01 2017-Sep-28		Tablet(s) Once daily x 30 Day(s)	
		Height 5' 6''		External Medications	0 🖈
H	Tracking 🗳	Weight 55 155		atenolol 50 mg Oral Tablet [1 tab	od]
🖄 1	(0) Labs	BMI 25.0 Temperature 36.8		ASPIRIN 81 MG TABLET EC []	
⊠ 1	(0) All Tasks	BP - Systolic 120 130 132 BP - Diastolic 80 80 78		Allergies	0
<u></u> ∃ 19	(2) CDM Q			Drug Allergies	
📄 15 👗 31	•			Drug - Allergy - None Known	
	(1) Preventive Care			Non-Drug Allergies	
<u> </u>	(0) Referrals and Orders			Non-Drug - Allergy - None Kno Drug Intolerances	wn ×
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<b>•</b>		🖻 🖻 🖩 V 🦃 🎽 🚳 C M I F A E	D C	-	

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Edit Templates	Title Annual Health Exam	Type Clinical Note V	
O Edit Macros			
🛐 *TP - PHE - Female 🛆	Verdana	<ul> <li>v 12 v</li> <li>b i u A</li> <li>E Ξ</li> <li>S X<sup>2</sup> X<sub>2</sub></li> <li>A II □</li> <li>E Ξ</li> <li>Ø Ø Ø</li> <li>C</li> </ul>	) ^\$* 🗹
🕥 *TP - PHE - Male			^
3 *TP-SOAP			
😚 *VN - DM		Annual Health Examination	
🚯 *VN - PHE - Female <sup>≡</sup>		Subjective:	
🛐 *VN - PHE - Male		History of present illness: Past history:	
🚯 *VN - Referral		Medical: [Unchanged   Updated  None to Record] Surgical: [Unchanged   Updated  None to Record]	
3 *VN-SOAP			
💿 Abdominal Pain		Medications: [Unchanged   Updated  Recorded On no medications] Allergies: [Unchanged Updated  Recorded None Known]	
💼 Annual Health Exam		Family history: [Unchanged   Updated  Recorded None to record] Social history: [Unchanged   Updated  Recorded  Nothing pertinent to record]	=
🔂 Asthma			
🙃 Blank Note		Review of symptoms: Neurological: [headache   dizziness   syncope   paresthesiae   visual problems  No Neurological	
🙆 Cardiac Heart failur		symptoms] CV / Respiratory: [chest pain   dyspnea   palpitations   PND   orthopnea   cough   No respiratory	
🔂 Cold		symptoms]	
Compression stoking		GI: [appetite   weight change   nausea   vomiting   abdominal pain   change in bowel movements   bleeding   No GI symptoms]	
conjunctivitis		GU: [dysuria   hematuria   frequency   urgency   nocturia   incontinence   erectile dysfunction   urinary stream [No GU symptoms]	
CPP Summary		MSK: [joint pain   swelling   redness   range of motion  No MSK symptoms]	
Diabetes Follow Up		Reproductive: [menses   pregnancy   birth control ] Mental Health:[anxiety   depression   sleep   other   No mental health symptoms]	
Discharge Letter #1		Immunization Status: [Influenza   Pneumococcal   Td]	
Discharge Letter #2		Objective:	
ear syringing		Recorded and Reviewed {Blood pressure}	
of foot pain		Pulse	
🚹 Headache		Current Weight  Height	
Immunization Summ		Current BMI}	
Immunization Visit		Head & neck: Chest:	
< III >		Chest: Cardiovascular:	~
🕒 New 💾 Save	😢 Delete		Close

🔶 *Ontario	etes Annual - Test, Sally	<b>– –</b> X			
Title *Ontario Laboratory 🗸 🛐 Not Reviewed	ed	1 🗘 <table-cell-rows> 🥕 🖌 🖉 🔛</table-cell-rows>	* 🖺 🔗 🐓		
Description	DOSNone	✓ Provider Nair, Vineet	~		
021984     88233     Check (√) one:     ♥ OHIP/Insured Third Party / Uninsured WSIB	11111199999 Province Other Provincial Registration Number	F 1976 07 05 Patient's Telephone Contact Number (519) 888-8888	^		
Additional Clinical Information (e.a. disenses)	Patient's Last Name (as per OHIP Card) Test Patient's First & Middle Names (as per OHIP Card) Sally Date of Address (including Particl Code)				
Last Name First Name	Patient's Address (including Postal Code) 825 Richmond Street London ON N6A 3H7				
	Note: Separate requisitions are required for cytology, histology / pathology and tests performed by Public Health Laboratory x Biochemistry x Hematology x Hematology X Viral Hepatitis (check one only)		=		
Glucose	CBC	Acute Hepatitis	-		
HbA1C	Prothrombin Time (INR)	Chronic Hepatitis			
Creatinine (eGFR)	Immunology	Immune Status / Previous Exposure			
	Pregnancy Test (Urine)	Specify: Hepatitis A			
Sodium	Mononucleosis Screen	Hepatitis B			
✓ Potassium	Rubella	Hepatitis C			
ALT ALT	Prenatal: ABO, RhD, Antibody Screen	or order individual hepatitis tests in the "Other Tests" section below			
Alk. Phosphatase	(titre and ident. if positive)	Prostate Specific Antigen (PSA)			
Bilirubin	Repeat Prenatal Antibodies	Total PSA Free PSA			
Albumin Lipid Assessment (includes Cholesterol, HDL-C, Triglycerides,	Microbiology ID & Sensitivities (if warranted)	Specify one below:			
calculated LDL-C & Chol/HDL-C ratio; individual lipid tests may be ordered in the "Other Tests" section of this form)	Cervical	Uninsured – Screening: Patient responsible for payment			
	Vaginal	Vitamin D (25-Hydroxy)			
Albumin / Creatinine Ratio, Urine	Vaginal / Rectal – Group B Strep	Insured - Meets OHIP eligibility criteria:			
Urinalysis (Chemical)	Chlamydia (specify source):	osteopenia; osteoporosis; rickets; renal disease; malabsorption syndromes;			
Neonatal Bilirubin:	GC (specify source):	medications affecting vitamin D metabolism			
Child's Age: days hours	Sputum	Uninsured - Patient responsible for payment			
Clinician/Practitioner's tel. no.( )	Throat	Other Tests - one test per line	×		
Version: 0 O Page: 1/1 O Print Print O Reviewed OK Add New Forms Close					

#### Favorite Prescriptions

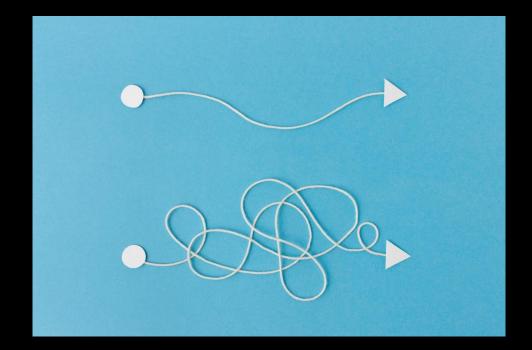
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		Import	
Favorite	Category	Prescription	
actonel	Active	ACTONEL 150 MG TABLET	~
Adalat 20	Active	ADALAT XL 20 MG TABLET	
Alesse 28	Active	ALESSE (28) 100 MCG-20	=
All Purpose Nipple Ointment	Active	C# Bactroban ointment and	-
Allopurinol 100	Active	allopurinol 100 mg Oral	
Amoxicillin 125 liquid	Active	amoxicillin 125 mg/5 ml Oral	
Amoxicillin 500	Active	amoxicillin 500 mg Oral	
Amoxicillin Prophylaxis	Active	amoxicillin 500 mg Oral	
Amoxil 250 mg liquid	Active	amoxicillin 250 mg/5 ml Oral	
Avapro 150 mg	Active	AVAPRO 150 MG TABLET	
Avapro 300	Active	AVAPRO 300 MG TABLET	
Baclofen	Active	baclofen 10 mg Oral Tablet	
Bactroban cream	Active	BACTROBAN 2 % CREAM	
Bactre Baclofen	Active	BACTROBAN 2 %	
Betaderm foreskin	Active	BETADERM 0.1 % CREAM	
Biaxin 500	Active	BIAXIN BID 500 MG TABLET	
Bismuth	Active	bismuth subsalicylate 262	
Bisoprolol 5 mg	Active	APO-BISOPROLOL 5 MG	
Celebrex 200mg	Active	CELEBREX 200 MG	
Celestone	Active	CELESTONE SOLLISDAN 6	-
- 🔁 🥒 😣		L	-

<b>¢</b>			Alert Definitions	
Existing Definitions	A1C >9			
Filter Visible Definitions	Current Rules			
A1C >9 😭 📩	Diagnosis Diagnosis Code	e Starts With '2	'250'	
Cancer Patients 🔶	Status = 'Active'			
Cancer Patients (Diagnosis) 🛭 😭	Lab Type Contains 'A1C' Al	VD <b>Unit</b> >= '9	· '9.0' AND Only Check Latest Result AND Include Reviewed Labs	
Diabetes Core London 🛛 🔶	<b>*</b>			
HTN Core London 🔶	<b>*</b>			
Last A1C > 6 months	New Rule		Manage Rule	
1945 🏫 🗉	Rule Category Demog	raphics v	Lab Result Update Rule	Remove Rule
AFHTO COPD	Rule Calegory Demog	raphics +		
AFHTO Opioids and Benzo 😭	Address	^	Doesn't Match Patient Records Only Optional Ins	tances 1 🗘
AFHTO Opioids Frontend S 😭	Carecard			
AFHTO Osteoarthritis	City			
AFHTO-Dementia 😭	Deceased			
AFHTO-Hypertension	Default Insurer	=	Lab Type: Contains V A1C V	
Bipolar 🚖	Email Address		Lab type. Contains V ATC	
Email Address 😭	Employer		Unit: Greater Than or Equal To v 9.0	
Existing HCV/Liver Disease h	Enrolled Date			
gyne 😭	Enrolled Provider		O New	
HCV Risk Factors Present 🛛 😭	Family Phys.		Only Check Latest Result	
Heart failure	File Number			
Hep C patients 👘	Flags Global Message		Within Observation Date Range	
Home visits 😭	Next of Kin		✓ Include Reviewed Labs	
Last BP > 1 year ago 🛛 🔶	Occupation		Only Abnormal Results	
Mammo bonus 😭	Office Provider			
Meadow Park Nursing Home  😭	Official Language			
MMR adult 🏫	Paper Chart			
		¥		

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### K. I. S. S.



## Keep It Simple (& Selfish)

"Better is possible. It does not take genius. It takes diligence. It takes moral clarity. It takes ingenuity. And above all, it takes a willingness to try."

- Atul Gawande

#### Thank You

Vineet Nair, MD CCFP Corefamilyhealth.com

