



Ready, Set, Go! Enhancing RW QI Programs Using the Clinical Microsystems Model

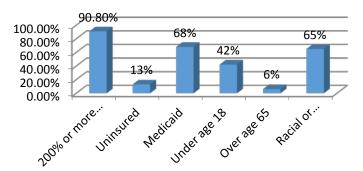
Marwan Haddad, MD, MPH, AAHIVS
Kasey Harding – Wheeler, MPH
Community Health Center, Inc.
Connecticut

Community Health Center Inc. Profile:

- •Founding Year 1972
- •Primary Care Hubs − 13
- •No. of Service Locations 216
- •Licensed /Total SBHC locations 51
- •Mobile dental in 200 locations
- •Organization Staff 800

CHC Patient Profile:

- •#consider CHC their health care home: 130,000
- •Health care visits: more than 429,000



Three Foundational Pillars:

Clinical Excellence Research & Development Training the Next Generation

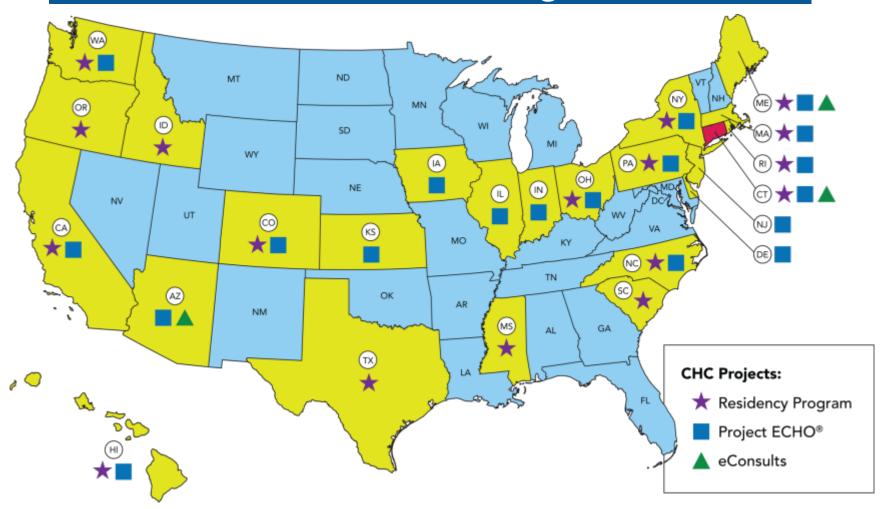


Innovations:

- Center for Key Populations
- Weitzman Institute
- Project ECHO for vulnerable populations
- National NCA on clinical workforce development
- Post graduate residency training for NPs and postdoctoral psychologists
- Formal research program
- Transformative quality improvement program
- E-consult specialty services



CHC's Educational, Technical & Innovation Projects





Our Mission



- ■To ensure that key populations in the communities we serve have a central and cohesive focus.
- ■To ensure that the integration of their care is fully realized through the integral collaboration and utilization of the vast and rich resources available at CHC, including
 - World-class clinical care
 - Quality improvement
 - Training and education of the next generation to care for these populations, and
 - •Research and publication to help study, improve and transform the care they receive.



Center for Key Populations



- Ensures access to integrated, quality specialty care for 5 key groups with highest burden of, and risk for, HIV who experience barriers to comprehensive, respectful and safe care.
 - •Men who have sex with men
 - Transgender people
 - People who inject drugs
 - •(Recently) incarcerated
 - Sex workers

Services:

- HIV screening, prevention, and treatment
- HCV screening, prevention and treatment
- STI screening, prevention and treatment
- Buprenorphine maintenance therapy for opioid use disorder
- Homeless care services
- LGBTQ health





Center for Key Populations Organizational Chart

CHC Senior Leadership
CHC Board of Directors
Mark Masselli, CEO
Margaret Flinter, VP
Veena Channamsetty, CMO
Mary Blankson, CNO
Gary Reid, BOD Chair

Center for Key Populations

Kasey Harding – Wheeler

Marwan Haddad, MD

Key Populations Team

Patricia Mik, RN
Omar Perez, MA
Lizbeth Vazquez, MA
Maria Lorenzo, MCM
Stephanie Moses, Data
Douglas Janssen, Outreach
Idiana Velez, PrEP

Wherever You Are (Homeless) Program

HIV Program (Ryan White Part C)

HCV Program TEACH-BMT/HRSA Sub Use Program

LGBT Program Oasis
Wellness
Center
(Ryan
White A
and B)

Consumer Advisory Board QI Clinical Microsystem

Project ECHO

Research

Teaching



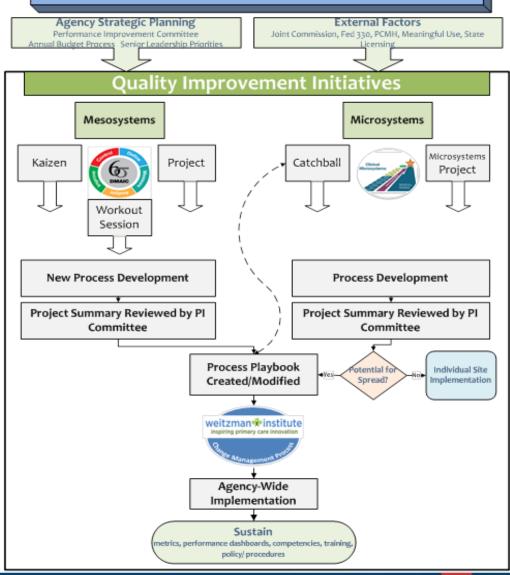
CHC QI Clinical Microsystems

- The QI model is driven by a core set of agency-wide goals and objectives, documented in an annual Performance Improvement Plan.
- Microsystems are frontline improvement teams sponsored by local and department leadership that are supported by trained improvement coaches and a data analyst.
- Their purpose is to engage in improvement work at the local level in alignment with agency performance improvement goals.
- They meet weekly or biweekly to design and test effective solutions to specific problems.
- The improvement coaches and QI Department monitor and support the work of each microsystem team.
- Microsystem teams create a "bottom up" source of improvement ideas and solutions that improve quality at the front lines and often generate ideas that have relevance to the wider organization.





CHCI/WI IMPROVEMENT MODEL



CHC QI Structure Model



Microsystem Coach

- Key member of the CHC QI team.
- Receive training in use of tools and processes needed to guide improvement initiatives.
- Play a critical role enhancing team functioning.
- Lead meetings, provide expertise in the QI process, and employ a range of tools and techniques to support the collaborative process and help teams efficiently and effectively achieve their goals.
- Supervised by QI Department's Quality Manager.





Microsystem Coach Continued

Qualifications for CHC Coaches:

- Identified by QI team, senior leaders, or managers.
- At least one full year of CHC employment.
- Solid contributor to CHC with positive performance review.
- Current role involving team or project leadership.
- Demonstrated leadership abilities and team collaboration skills.
- Good communication skills with interest in gaining new skills.

Role of CHC Coaches:

- Meet together with Senior QI Manager monthly to review progress, discuss issues, and review agency goals and objectives.
- Ensure their work is aligned with agency goals and objectives.
- Receive an annual performance assessment
 - Direct observation at least once per year by QI Department staff
 - Annual self- assessment
 - Team assessment
 - Submission of monthly progress update via Microsystem Tracker.

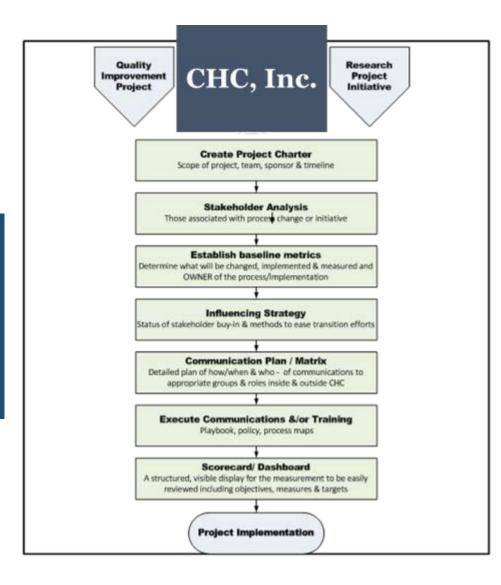


Senior Leadership Role

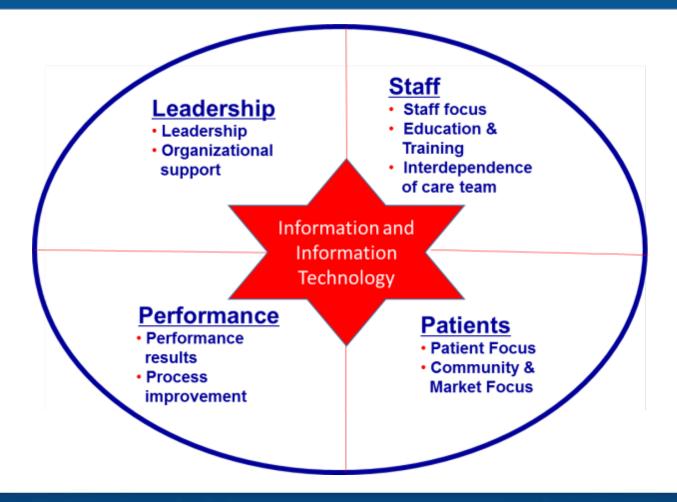
- Identify new opportunities to improve quality.
- Participate in the annual development of performance improvement goals.
- Act as senior leader sponsor for specific QI projects, when appropriate, and actively support the team in the improvement initiative.
- Ensure that their department is fully informed about agency performance objectives and current QI projects.
- Support development of frontline staff skills in facilitation, quality improvement tools and teamwork.
- Identify potential new coaches.



Change Management Process

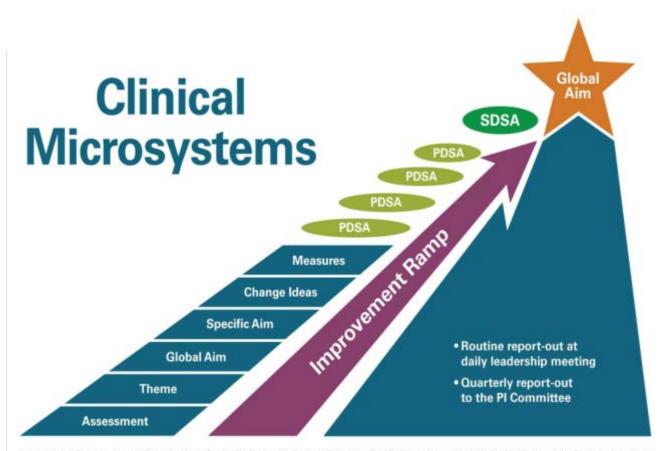


High Performing Clinical Microsystems





Quality Improvement Ramp



Improvement Ramp concept is from the book Quality By Design (by Eugene C. Nelson, Paul B. Batalden and Marjorie M. Godfrey) and the Dartmouth Institute.



Quality Improvement Ramp Continued

• The Improvement Ramp provides a structured approach that emphasizes careful review and evaluation of data, global and specific goal setting, measurement of outcomes, and the use of rapid cycle tests of change.

• Plan Do Study Act (PDSA) cycles test and refine new

Plan

ideas for improvement.

• All teams start at the bottom of the ramp with a comprehensive analysis of their site's performance and characteristics, which is referred to as the **5 P**s.





5P Assessment

1. Professionals

- Team Members
- Providers that care for the patients

2. Patients

Population cared for by the clinical microsystem professionals

3. Purpose

Why the team comes together to focus on quality improvement

4. Processes

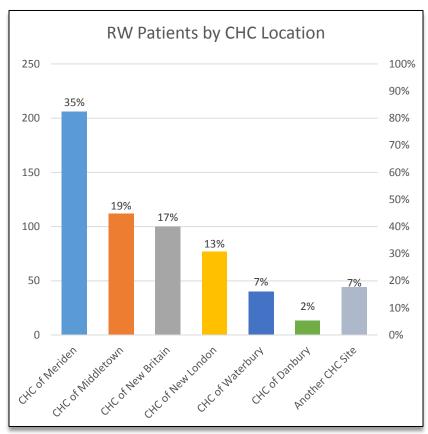
 What workflows are in place that help the team function?

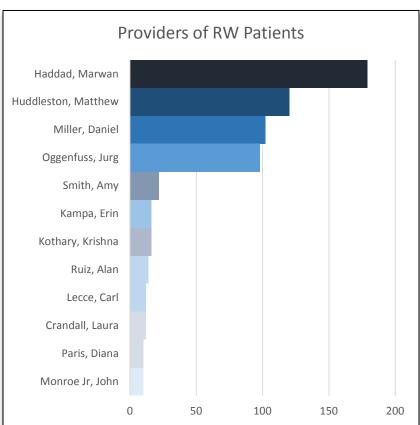
5. Patterns

• What measures does the team collect and analyze data on? Where do they see improvements?



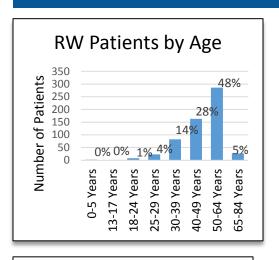
5P Data: Professionals

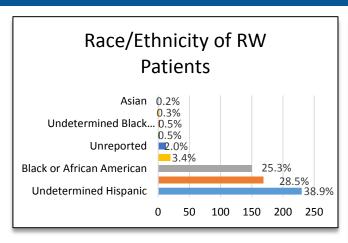


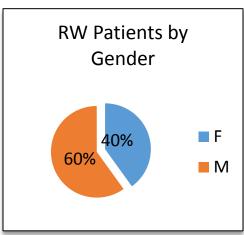


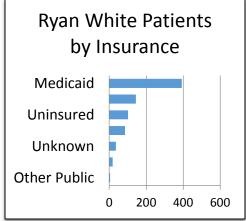


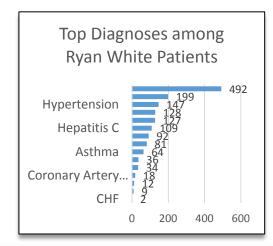
5P Data: Patients

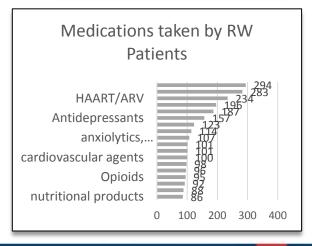














5P Data: Purpose

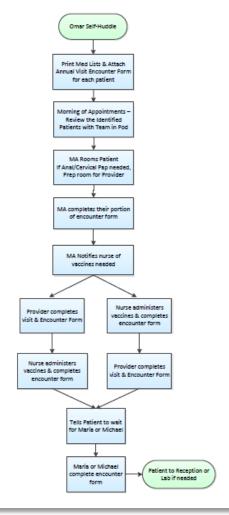
PURPOSE

WE THE EN TEAM AT CHC STIZINE TO ACCOMPLISH 3 GOALS WITH THE WILL WE DO

- 1. TO PREVIOE THE BEST WHALLING CARE AND SUPPORT TO THE MARKINADUZED POPULATIONS WHILE WORKING TO PEDUCE STIGMA AND HELP PATHONTS REACH THEIR FULL POTENTIAL
- 2. TO USE INNOVATION AND KNOWLEDGE TO FUETHER CHC'S MISSION OF ACHIEVINGA WARLD CLASS, #
 INTEGRATED PRIMARY HEALTH CARE SYSTEM.
- 3. TO PROVIDE A WORK ENVIRONMENT THAT SOPPORTS
 RESUMAL + PROTTETIONAL SPONTH + FUNCTIONAL.



5P Data: Processes & Patterns



- Process showing potential Annual Exam Workflow
- Patterns tracked through the HIV dashboard (image below), displaying which measures we are tracking for RW patients

Provider	Controlno ÷	First Diagnosis Date	Last Medical Encounter Date	Viral Load	HIV Medication	CD4 value	CD4 Prophylaxis	Last LDL Encounter	Last PPD Encounter	Last RPR Encounter	Chlamydi Encounte
Haddad MD, Marwan SPECIALTY ONLY FP				20	Yes	1163		5/1/2015	10/31/2013	5/31/2013	3/8/2013
Haddad MD, Marwan SPECIALTY ONLY FP				20	Yes	181	Yes	1/6/2016	12/11/2012	1/6/2016	7/3/201
Haddad MD, Marwan SPECIALTY ONLY FP				20	Yes	533		5/1/2015	5/31/2013	5/1/2015	5/30/201
Haddad MD, Marwan SPECIALTY ONLY FP				20	Yes	567		9/23/2015	5/28/2014	9/23/2015	3/5/201
Haddad MD, Marwan SPECIALTY ONLY FP				244	Yes	245		1/7/2015	3/19/2014	1/2/2013	1/2/201
Haddad MD, Marwan SPECIALTY ONLY FP				20	Yes	1366		11/18/2015	2/13/2014	2/11/2015	2/13/201
Haddad MD, Marwan SPECIALTY ONLY FP				113	Yes	308		11/11/2015	8/13/2013	11/11/2015	12/15/20
Haddad MD, Marwan SPECIALTY ONLY FP				39	Yes	325		12/31/2014	12/9/2013	3/19/2013	3/19/201
Haddad MD, Marwan				20	Yes	752		9/9/2015	6/18/2013	9/9/2015	12/12/20



PDSA Cycle

• The PDSA Cycle is a rapid test of change used for testing new ideas and potential solutions to identified problems.



- Plan: identifying a goal or purpose, formulating a theory, defining success metrics and putting a plan into action.
- Do: implementing the components of the plan.
- Study: measuring and analyzing outcomes to test the impact of the plan for signs of progress and success, or problems and areas for improvement.
- Act: integrating the learning generated by the entire process, which can be used to adjust the goal, change methods or even reformulate a theory altogether.
- These four steps are repeated in a continuous improvement cycle.



Effective Meeting Skills

- Set a regular meeting day and time and stick to it.
- Set ground rules.
- Use meeting roles.
- Use 7 step meeting process and agenda.
- Encourage and facilitate participation in all processes.





Meeting Roles

- The Recorder Visually records for the group the work done and the next steps to be taken.
- The Timekeeper Verbally announces the time remaining according to each agenda item.
- The Leader Coordinates and directs the work of the team.
- The Facilitator Responsible for making sure the meeting moves along and that everyone participates during meetings.

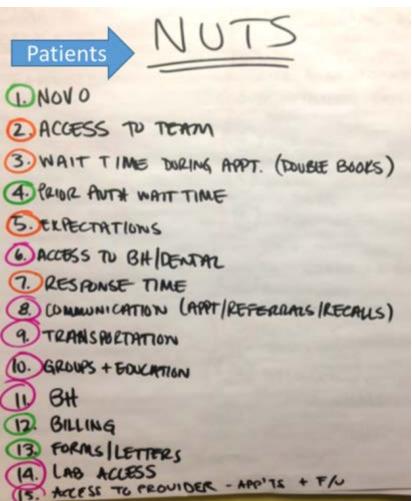


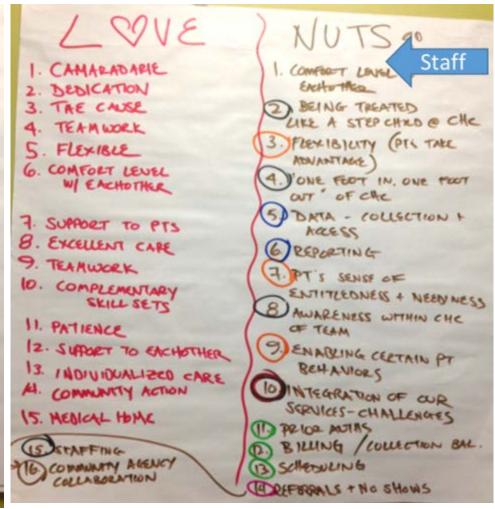
Center for Key Populations Clinical Microsystem Example





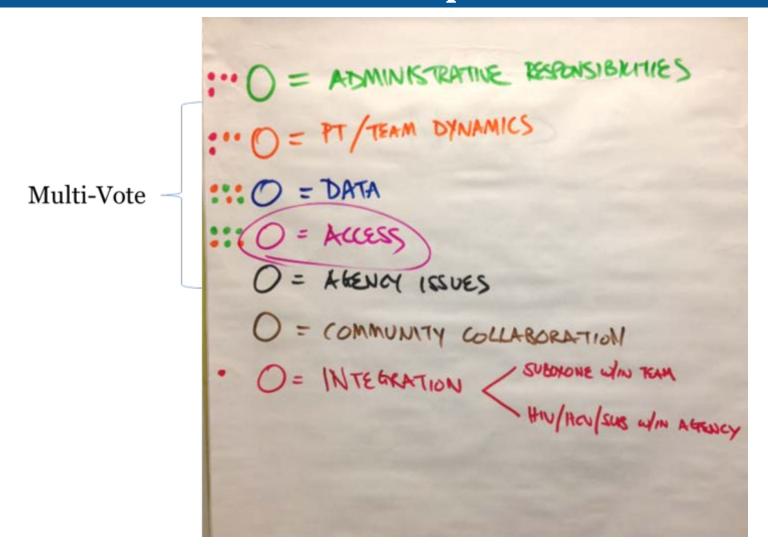
LOVE AND NUTS



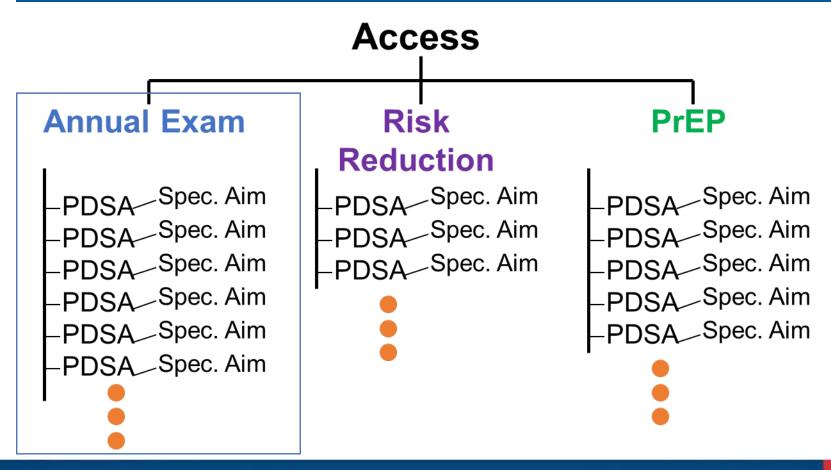




Identified themes based on patient & team "Nuts"



Themes, Processes, Aims, and PDSA Cycles





Global Aim Statement

Write a Theme for Improvement: Access

Global Aim Statement

Create an aim statement that will help keep your focus clear and your work productive:

We aim to improve: The execution & documentation of ICSP clinical performance measures

(Name the process)

In: New Britain

(Clinical location in which process is embedded)

The process begins with: An ICSP patient being scheduled for a visit with a provider
(Name where the process begins)

The process ends with: The successful completion & documentation of the clinical performance measures

(Name the ending point of the process)

By working on the process, we expect: To improve the quality of patient care, improve reporting, and improve efficiency of the team.

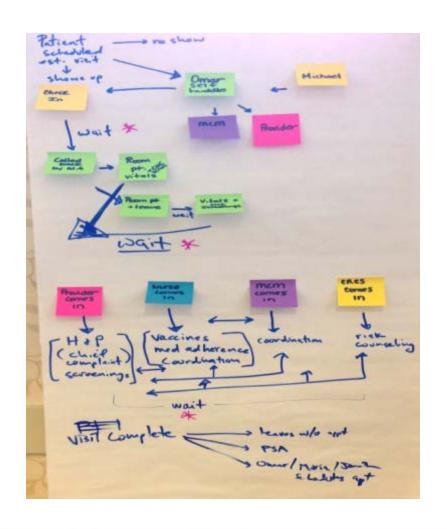
(List benefits)

It is important to work on this now because: The RSR is due in December, reporting/data benefits the patient, the patients feel more connected in times where access is limited, team needs to be more efficient in light of schedule changes.

(List imperatives)

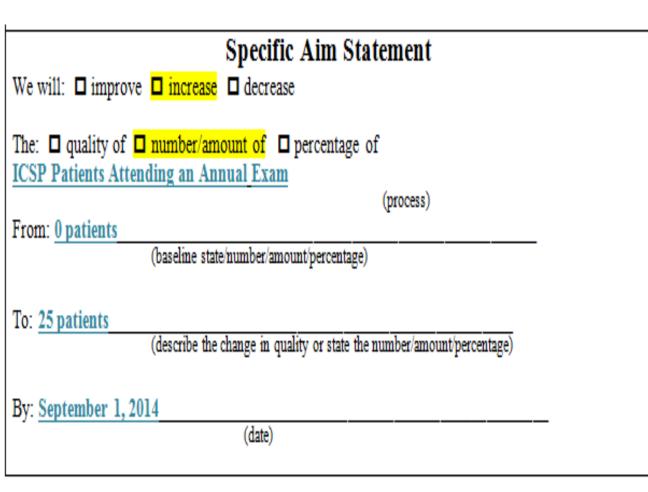


Process Mapping – Current Process



- Process starts when patient calls to make the appointment
- Process ends with documentation of completed performance measures for patient.

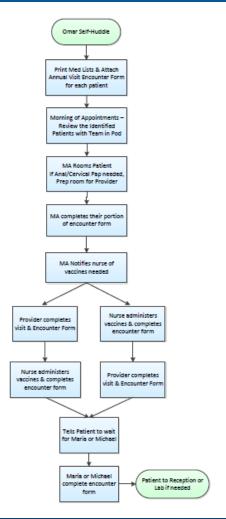
Specific Aim Statement



- State aim clearly
- Use numerical goals
- Set stretch goals
- Avoid aim "drafts"
- Be prepared to fully shift aim if necessary.



Mapping a new process



- Identify the areas of weakness that are creating the process breakdown.
- Strategize solutions to those steps in the process.
- Replace old steps with new ones.

TEST THE NEW PROCESS!



Testing the Process with a PDSA Cycle

Annual Exam PDSA Cycle

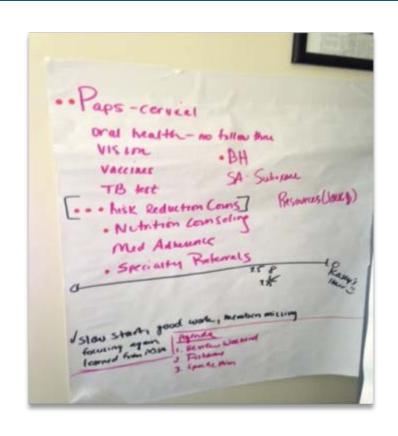
- **Plan**: Test the use of a pre-visit checklist that identifies patients in need of annual screenings. MA completes pre-visit checklist and hands to provider after rooming the patient. Provider completes necessary screenings, orders labs, and documents in the EHR
- **Do**: Measure the number of patients that received an annual exam. Measure the time it takes to complete the annual exam.
- **Study**: <u>Time</u> needed to complete the pre-visit huddle, checklist, and screenings in visit proved too <u>burdensome</u> on the team.
- **Act**: Place the idea of an annual exam on hold due to the time burden. Choose a new global aim for focus based on a piece of the annual exam.



Don't be afraid to make changes!!

Our scope was too large to perform with the resources available!

- Identified pieces of Annual Exam
- Multi-Voting to select which to improve further





Impact Versus Effort Grid

High Impact
Low Effort
"Quick Wins"

High Impact High Effort

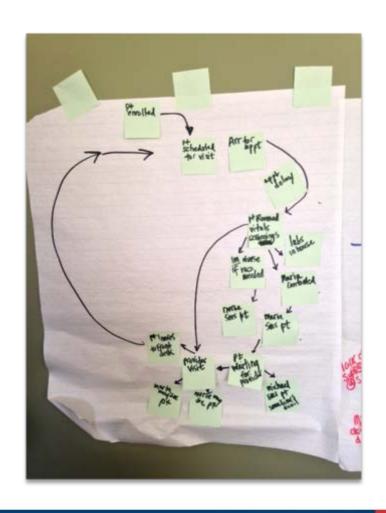
Low Impact Low Effort Low Impact Low Effort



Annual Exam

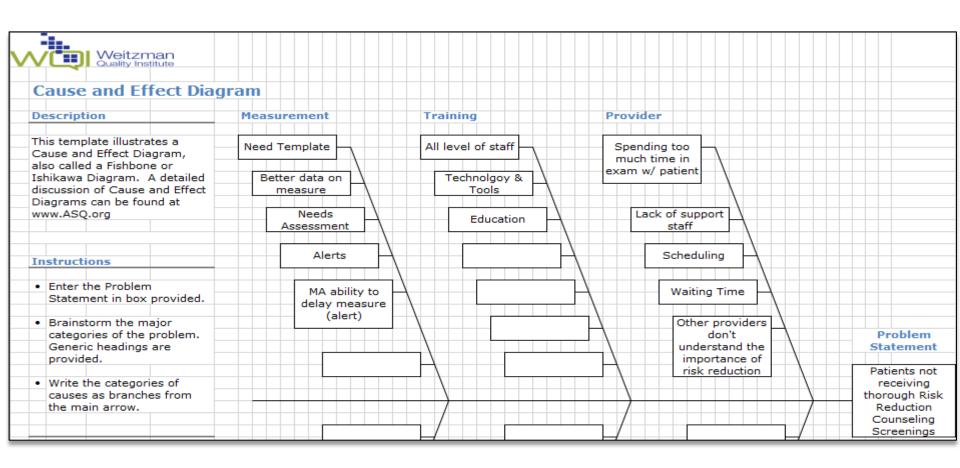
Risk Reduction

Mapped current process for performing Risk Reduction
 Screening





Fishbone Diagram to assess Problem Statement



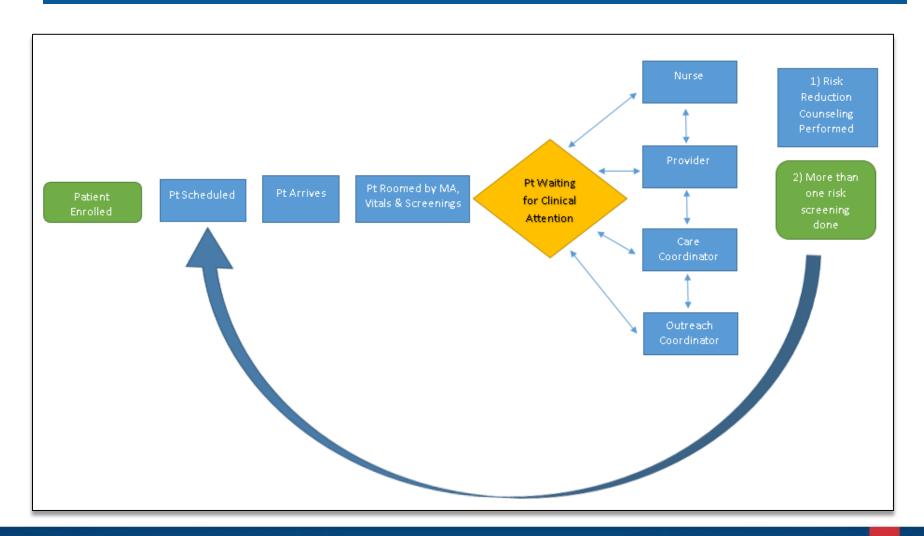


Risk Reduction PDSA

- **Plan:** Provide a more thorough risk reduction session with the patient during an office visit.
 - MA to determine clinical attention needs.
 - Provider to spend time reviewing impact of risks with patients.
 - Patient Education materials from the EHR
- **Do:** Measure time needed to complete thorough risk reduction session with patients. Does this session work in structure of regular office visit?
- **Study:** <u>Time</u> to complete thorough risk reduction session in a regular office visit was <u>burdensome</u>. The **patient load** throughout the day was too many. Not enough positive impact on the patient to outweigh negative effect on clinical team.
- **Act:** Need to re-evaluate methods of presenting risk reduction education to patients. Exploring new PDSAs on presenting patient education through technology (iPads, videos while waiting for clinical attention).

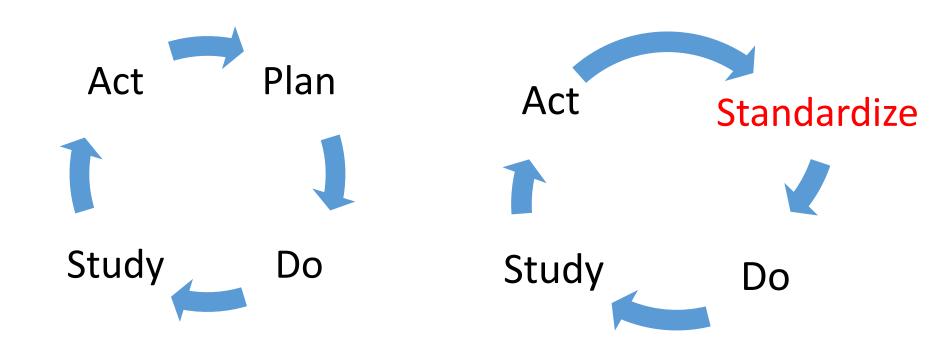


New Risk Reduction Process





PDSA to SDSA





Thank You!



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