Indian Health Service Clinical Documentation Improvement (CDI)

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Clinical Documentation

Catalyst for medical necessity, coding, billing and auditing Provides evidence of quality and continuity of patient care Coding and reimbursement professions involved Consistency and attention to detail

Good Documentation

Medical record should be complete and legible

Documentation should include:

- Reason for the encounter (chief complaint)
- Relevant history (related to why the patient is here)
- Physical Examination (findings, observations)
- Test ordered and their results
- Assessment (clinical impression or diagnosis)
- Plan of care
- Date and signature of provider

Additional Items

Rationale for ordering diagnostic or ancillary services should be documented or easily inferred

Past and present diagnoses available for review

Health risk factors should be identified

Documentation should support charges submitted on claim form

Medical record should be:

- Complete
- Concise
- Legible
- Timely

Department of Health and Human Services (DHHS) Documentation Guidelines

Documentation:

- Timely, accurate and complete
- Appropriate for diagnoses and treatment

Medical Record Documentation:

- Site of service
- Appropriateness of service
- Accuracy of billing
- Identification of service provider

Documentation Improvement in Physician Practice

Education

Documentation Improvement Programs

Physician Queries

Follow-up, Repetition, and Persistence

Common Errors for CDI

Upcoding Unbundling Lack of medical necessity

Mismatched treatment/diagnosis codes

Typos in note

Not listing start and end times

Not listing where the patient and provider are located for telemedicine encounters

Quality Improvement

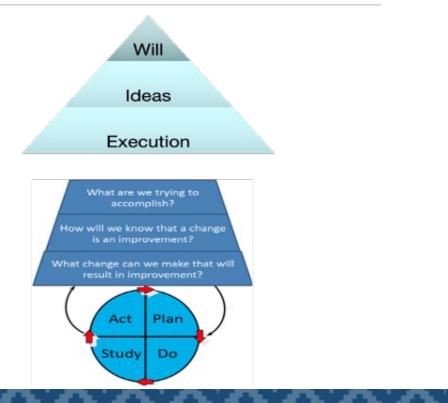
Quality Improvement – An Introduction

What is Quality Improvement?

The Fundamental Law of Quality Improvement

Three Necessary Ingredients

Three Necessary Questions

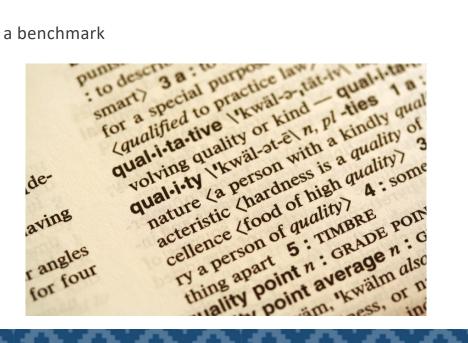


What is Quality Improvement?

What is "Quality"?

Quality Improvement is NOT Quality Assurance

- $\,\circ\,$ QA is retrospective; QA measures something against a benchmark
- QI is prospective, and usually never-ending!



The Fundamental Law of Improvement

"All improvement requires change, but not all change leads to improvement"

Example:

Goal:

• Lose Weight

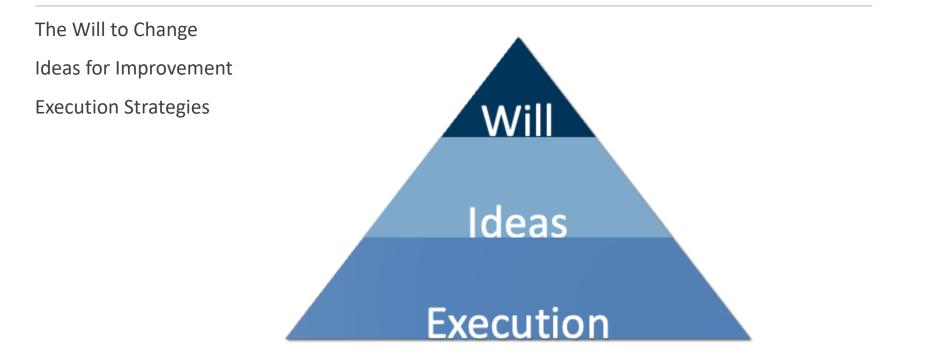
Change 1:

• Buy more Veggies

Was it an improvement?

• No, they spoiled in my fridge

3 Necessary Ingredients

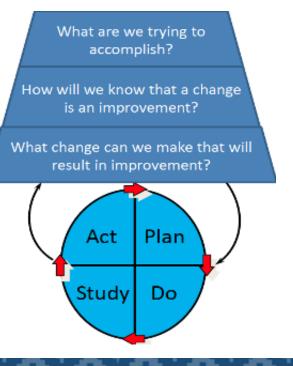


3 Necessary Questions

What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will lead to improvement?



Model for Improvement

Simple Yet Powerful

Developed By Associates in Process Improvement

Two Parts

- Three Fundamental Questions
- Plan-Do-Study-Act Cycle



What Are We Trying to Accomplish?

Importance of a Project Aim:

Provides:

- $\circ~$ Who Will Be Working On It
- What Will Be Worked On
- $\circ~$ When It Will Be Worked On

Keeps Team Focused on Set Goals

Can Be Modified As Project Progresses



How Will We Know A Change Is An Improvement?

Measurement:

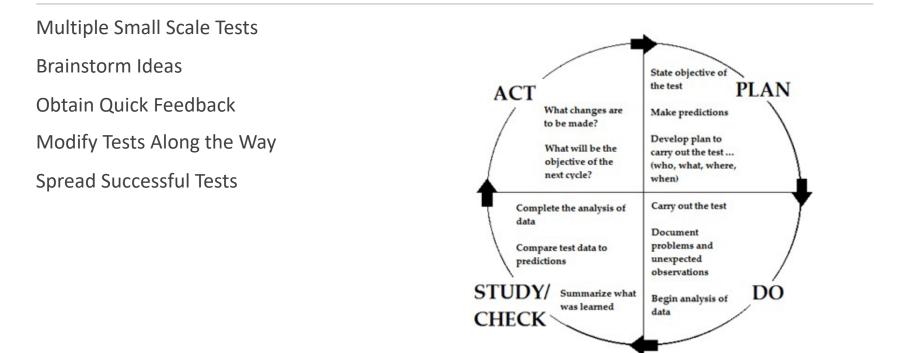
Qualitative:

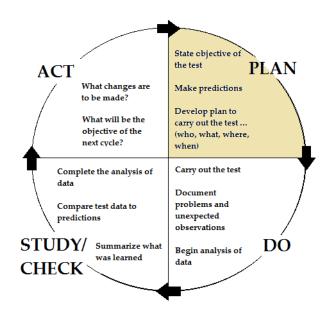
- Deals with Descriptions
- Data Can Be Observed but Not Measured
 - Staff/Patient Satisfaction
 - Written (narrative) feedback, rather than a number

Quantitative

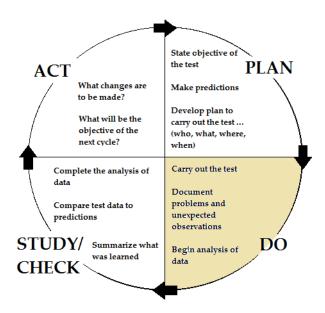
- Deals with Numbers
- Data Can Be Measured
 - GPRA Measures, DM Audit Measures

What Changes Can We Make That Will Result In An Improvement?

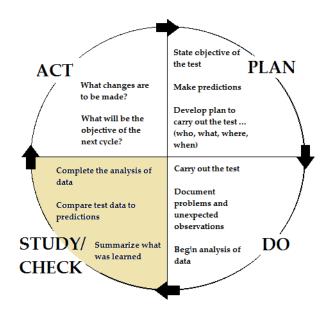


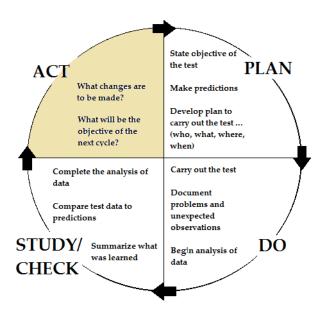














As a Model for Continuous Improvement

Starting a New Improvement Project

Developing a New of Improved Design or a Process, Product or Service

Defining a Repetitive Work Process

Planning Data Collection and Analysis

Implementing a Change

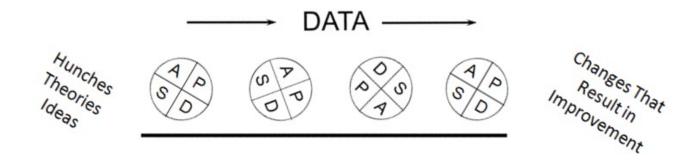
Increase Belief Change Will Result in Improvement

Small Tests = Small Risk

Rapid Cycle Testing = Quick Feedback

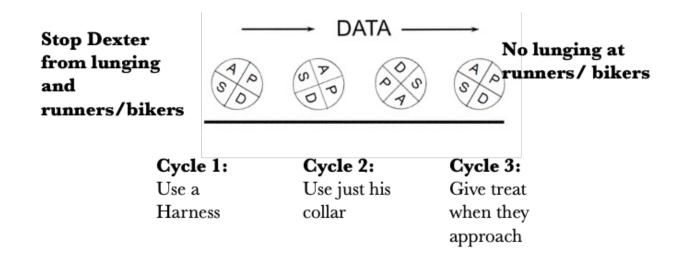
Multiple Cycles = Iterative Learning

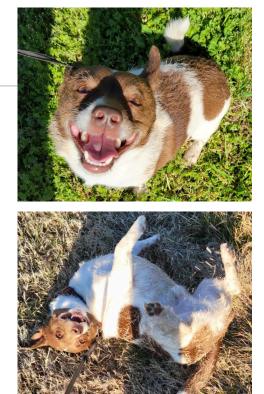
List of Changes & Outcomes for an Improvement Process



PDSA - Example

Aim: Peaceful Walk with my dog Dexter (Yes, after the serial killer)





PDSA Worksheet

<u>Plan</u>

<u>Do</u>

PDSA Worksheet for Testing Change

Aim: (overall goal you wish to achieve)

Describe your first (or next) test of change:		Person responsible	When to be done	Where t be done
List the tasks needed to set up this test of change		Person responsible	When to be done	Where to be done
Predict what will happen when the test is carried out	Measures 1	to determine if	predictior	succeed
escribe what actually happened when you ran the t				

<u>Study</u> Describe the measured results and how they compared to the predictions

<u>Act</u> Describe what modifications to the plan will be made for the next cycle from what you learned

Institute for Healthcare Improvement

PDSA Worksheet Example

Aim: (overall goal you wish to achieve)

Documentation to support medical necessity listed on 90% of Dr. X's encounters by the end of the 1st quarter of the year. Currently Dr. X puts diagnoses that are on the problem list in the encounters, without supporting documentation. The overall goal is to have each diagnoses utilized have corresponding documentation indicating it was addressed.

Every goal will require multiple smaller tests of change

Describe your first (or next) test of change:	Person	When to	Where to
	responsible	be done	be done
 Educate Dr. X on documentation requirements: Each diagnosis utilized must have corresponding documentation to be on the encounter 	Kristina Rogers	08/26/24	Schedule virtual meeting with Dr. X, will send calendar invite

<u>Plan</u>

List the tasks needed to set up this test of change	Person	When to	Where to
	responsible	be done	be done
 Learn and understand the documentation requirements Understand how the problem list works Understand how the template Dr. X is using works 	Kristina Rogers	08/19/24	At worksite

Predict what will happen when the test is carried out	what will happen when the test is carried Measures to determine if prediction succeeds		
 Dr. X will attend the call Visits will have necessary information moving forward 	 Did he attend: Yes or No Random Sample of visits (10) over the next week to see if they have necessary information 		

PDSA Worksheet Example

Do Describe what actually happened when you ran the test

Dr. X showed up to the call, but was very distracted. He had people coming in and out of his office, he was not really paying attention and I'm not sure he grasped the information.

Study Describe the measured results and how they compared to the predictions Dr. X did show up, but he was unreceptive to the information and his documentation didn't change.

<u>Act</u> Describe what modifications to the plan will be made for the next cycle from what you learned Go onsite to provide training one-on-one where there can't be any distractions.

Contact his supervisor to ask for some intervention and assistance.

Work with him to improve the EHR template to make it more receptive to needs of both parties.

Quality Tools

PROCESS ANALYSIS CAUSE ANALYSIS DATA COLLECTION & ANALYSIS

Process Analysis

FLOWCHART

SPAGHETTI DIAGRAM

Process Flowchart

WHAT IT IS

First Step to Improve

Visual Picture

Shows Interactions

WHEN TO USE IT

Establish "as is"

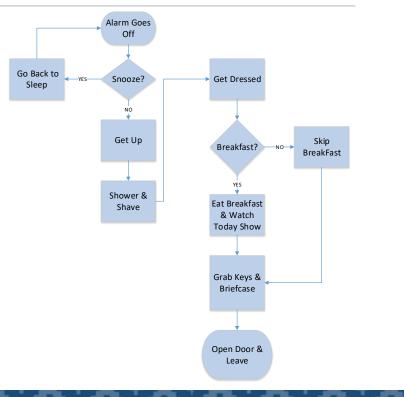
Identify Waste

Uncover Variation

Show/Train Employees

Dos & Don't to Flowcharting:

Do Talk with other people involved in the process Do define the beginning and end points up front Do flowchart at a high level Don't attempt to start without boundaries Don't get bogged down with too much detail



How to Use It

Clearly Define the Process to Study

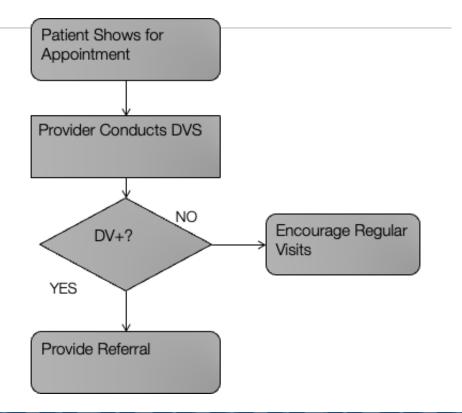
Set the Boundaries (start & end points)

Decide on Level of Detail

Gather Information and Develop the Chart

Use Common Set of Symbols

Identify Bottlenecks, Rework, etc.



Spaghetti Diagram

WHAT IT IS

Visual Representation

Continuous Flow Line

WHEN TO USE IT

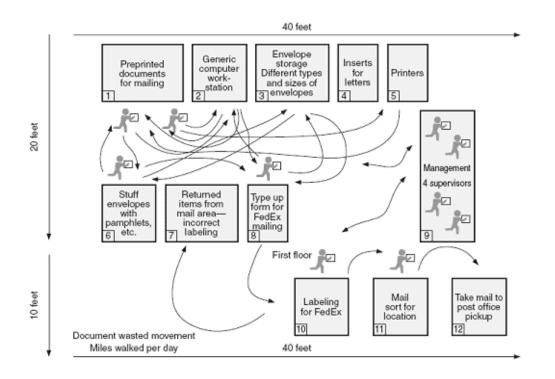
Analyze Work Flow

Remove Wasted Motion

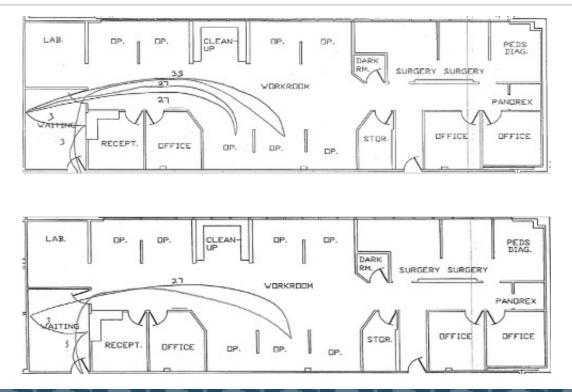
Remove Waiting

Bonus: Staff Collaboration

Example 1



Example 2



Cause Analysis

5-WHYS

CAUSE & EFFECT DIAGRAM

Five Whys

WHAT IT IS

Questioning Process

Clarify & Refine Problems

Uncover Symptoms

WHEN TO USE IT

Investigate a Problem

With Brainstorming

Seeking Solutions

Example: 5 Whys

A patient received the wrong medication.

- 1) Why did the patient receive the wrong medication?
 - The nurse did not complete patient identification.
- 2) Why did the nurse not complete patient identification?
 - The patient did not have a wristband.
- 3) Why did the patient not have a wristband?
 - $\circ~$ The wristband had been removed for a procedure and not replaced.
- 4) Why was the wristband not replaced?
 - $\circ~$ The printer for the wristbands was not working.
- 5) Why was the printer not working?
 - The staff needed to support IT had been reduced and was overworked.

How to Use It

Describe the Problem in Specific Terms

Ask Why It Happens

Ask Why Again (if no root cause is identified)

Ask Why Until Root Cause Surfaces

Focus on Process Aspects

Cause-and-Effect Diagram

WHAT IT IS

Relates Symptoms to Causes

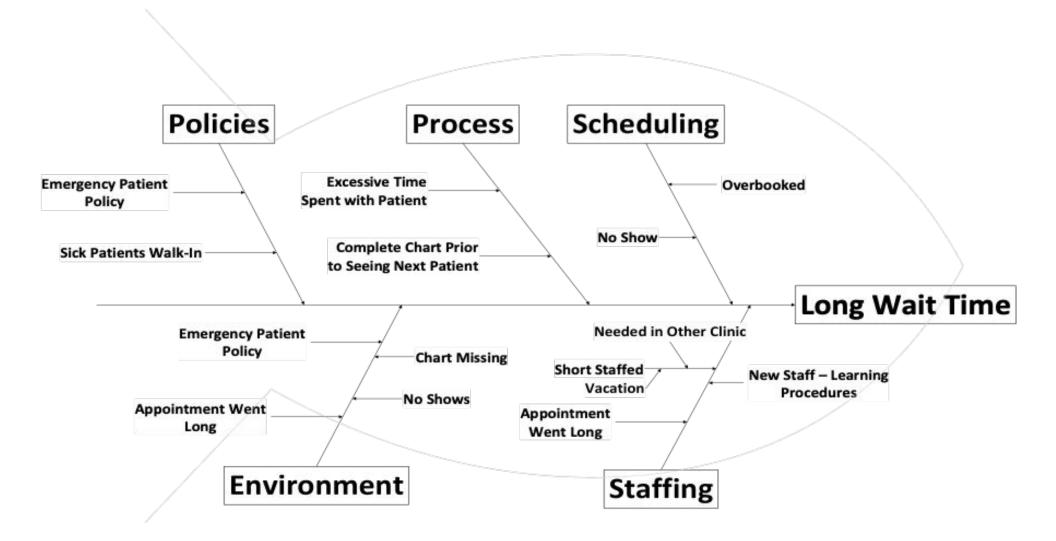
Systematic Approach to Root Cause

WHEN TO USE IT

Consider All Contributing Factors

Determine Primary & Secondary Causes

Alternative Approach





How to Use It

Write the Issue as a Problem Statement

• The Issue is Now the Effect

Brainstorm Main Causes of the Effect

Create Main Headers

- Four M's Manpower, Materials, Methods, Machinery
- People, Policies, Processes

Brainstorm Sub-Causes for Main Causes (5-Whys)

List Sub-Causes with Arrows

Once Complete, Decide the Few Areas to Focus On

Data Collection & Analysis

PARETO CHART RUN CHART

Pareto Chart

WHAT IT IS

Prioritized bar graph

Visually depicts most significant factors

Shows where to focus efforts

Helps break down big problems into smaller pieces

WHEN TO USE IT

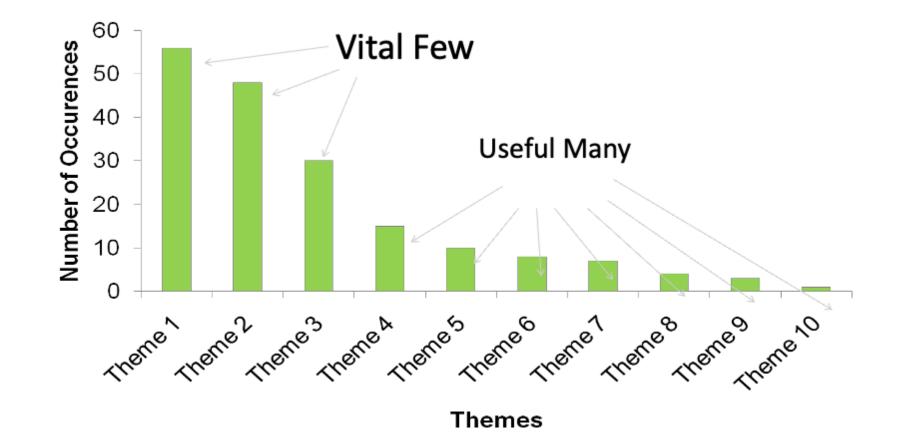
Analyzing frequency data

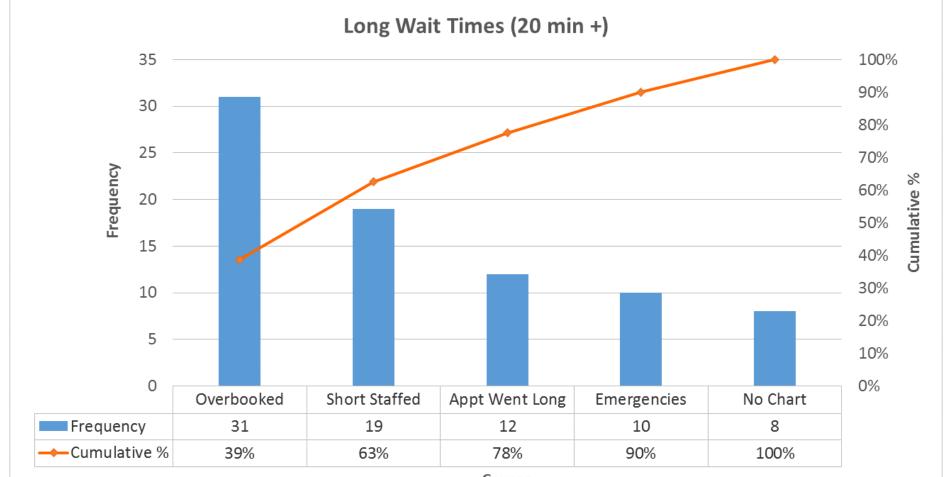
Focusing on significant problems or causes

Analyzing broad causes

Communicating with others about data

Decide which areas to focus improvement efforts





Causes

How to Use It

Pick categories to group items and decide on the type of measurement (frequency, quantity, cost, time, etc.)

Record or collect the data, record the category each time

Subtotal and order the data for each category

Label the left-hand vertical axis, equal intervals from 0 to a round number equal to the largest subtotal from step 4

Label the bottom horizontal axis with the categories, place the largest to the far left, then the next tallest to and so on

Plot a bar for each category

Add title, legend (optional) and a date (optional)

Identify the vital few and the useful many



Run Chart

WHAT IT IS

Line Graph of Variability

Displayed Over Time

Median as Centerline

WHEN TO USE IT

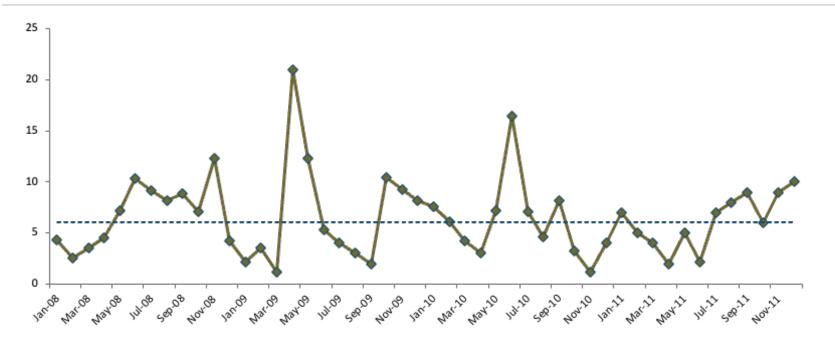
Plot Data Over Time

Show Performance

Confirm Knowledge

Identify Non-Random Patterns (signals)

Example



Median

Definition:

The middle number in a given sequence of numbers

Used as the centerline to provide the point at which half the observations are expected to be above or below and the median is not influenced by extreme values in the data

Calculating the Median

Sort the data points - lowest to highest

Odd # of data points*:

 (n+1)/2 = spot in sequenced #'s, then go back to the list and the number in that spot is the Median

Even # of data points*:

(n+1)/2 = decimal value that is spot in sequenced #'s, there will be two values identified - average the two values identified and get the Median

*n = # of data points

Calculating the Median - Example

13, 18, 13, 14, 13, 16, 14, 21, 13

13, 13, 13, 13, 14, 14, 16, 18, 21

(n+1)/2 = (9+1)/2 = (10)/2 = 5th # in sequence

Median = 14

Calculating the Median - Example

8, 9, 13, 10, 10, 11, 11, 12, 11, 10

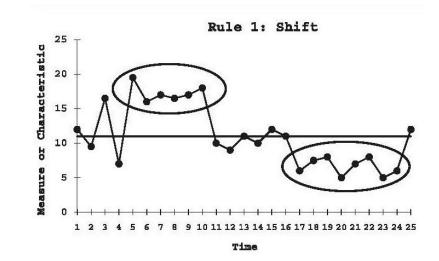
8, 9, 10, 10, 10, 11, 11, 11, 12, 13

(n+1)/2 = (10+1)/2 = 5.5th number in sequence

Median = (10+11)/2 = 10.5

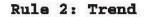
Rule # 1 – Shift:

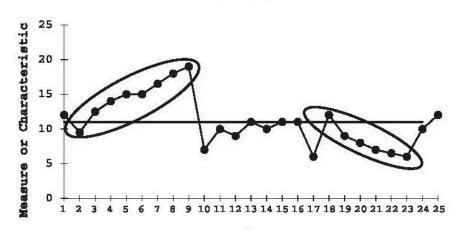
Six or more consecutive points either all above or all below the median. Do not count points that fall on the median.



Rule # 2 – Trend:

Five or more consecutive points all going up or down. Only count like values one time.

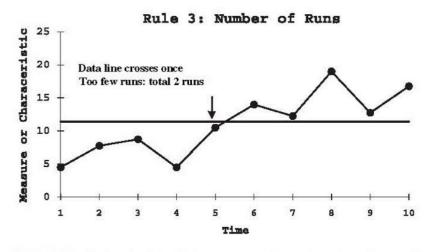




Time

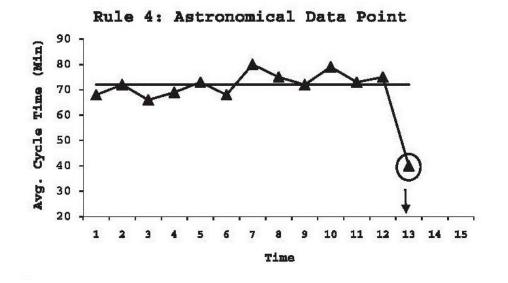
Rule # 3 – Runs:

Series of points in a row on one side of the median. Count the number of times the line connecting the data points crosses the median and add one.



Rule # 4 – Astronomical Point:

A point that is obviously different from the rest of the points



How to Use It

Clearly Define a Process

Design Data Strategy

25 Data Points/Samples Minimum

Collect Data & Determine the Median

Review the Chart

Understand Reasons of Unusual Patterns

Summary

Clinical Documentation Improvement

The difference between Quality Improvement and Quality Assurance

Will, Ideas and Execution

Necessary questions

Model for Improvement

Plan-Do-Study-Act Cycles

Quality tools – Process analysis, cause analysis and data collection/analyses

References

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