

Measuring Progress on HCAHPS



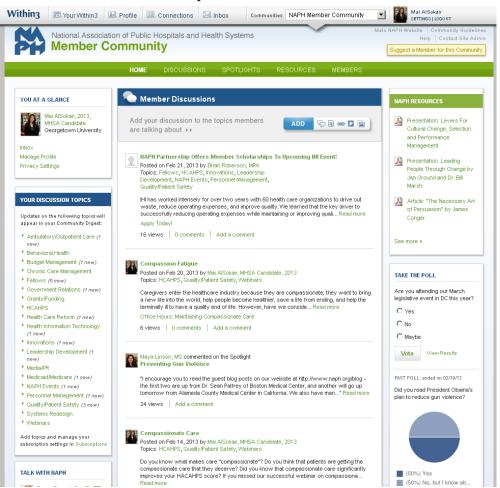
Before we start...

- Reminders:
 - Letters of commitment
 - IHI Open School
- Your feedback is very important for us. So please continue to share it with us. We truly appreciate the time you take to give us your thoughts and input.



Important notes

Within3 Community





Important notes

HCAHPS Year 2 Reference List

http://tc.nphhi.org/Learn/HCAHPS-Beyond-The-Basics.aspx





Experts From the Field











Ed Mendez RN, MPH

NSN Improvement Coach Jane Hooker

RN, MN, CPHQ

AVP for Quality & Innovation, NAPH

Carrie Brady

JD, MA

Principal, CBrady Consulting Jerod Loeb

PhD

Executive VP for Healthcare Quality Evaluation, Joint Commission

Sherri Loeb

BSN, RN

Personal Navigator



Polling Question:

How often do you review your HCAHPS reports' data?

- 1-3 months
- 4-6 months
- 7-9 months
- 10-12 months



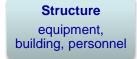
How to Assess Quality?

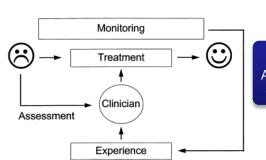
Donabedian Framework of Quality



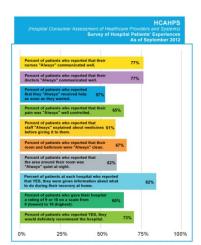














How is Donabedian Framework Related to **HCAHPS?**

Donabedian Framework

Hospital **HCAHPS Domains** environment: Ex: cleanliness, quiet

| Structure | Process | Outcomes |
|---------------------------------------|-----------------------------|---|
| ital onment: oliness, quietness | Nursing communication | Overall rating of hospital & willingness to recommend |
| | Doctor communication | |
| | Responsiveness of staff | |
| | Pain management | |
| | Communication of medication | |
| | Discharge information | |



Case Study

Problem: Low HCAHPS scores on the nursing communication domain.

Intervention: Implement a whiteboard within visual range of each patient bed.

Implementation: Nurse education, simulation, and scripting to ensure maximum effectiveness.

Audit:

- Ensure the data on the whiteboard was accurate and timely.
- 2. Evaluate the effectiveness of the use of the whiteboard by staff when discussing care plans with the patient and family.



Historical (baseline) Data:

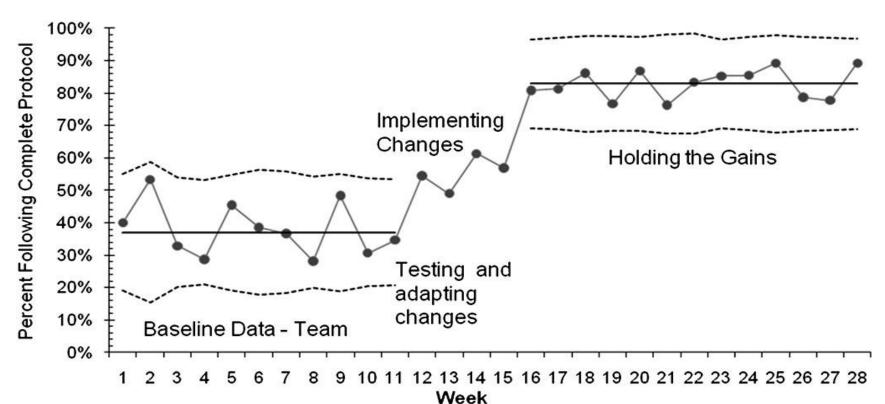
Reviewing data shows low nursing communication scores below the national average of 77%.

| | Nurse |
|--------|---------------|
| | Cummunication |
| Date | Score |
| Jan-10 | 53% |
| Feb-10 | 60% |
| Mar-10 | 62% |
| Apr-10 | 55% |
| May-10 | 46% |
| Jun-10 | 55% |
| Jul-10 | 60% |
| Aug-10 | 60% |
| Sep-10 | 63% |
| Oct-10 | 49% |
| Nov-10 | 55% |
| Dec-10 | 56% |
| Jan-11 | 63% |
| Feb-11 | 54% |
| Mar-11 | 58% |
| Apr-11 | 57% |
| May-11 | 61% |
| Jun-11 | 63% |
| Jul-11 | 66% |
| Aug-11 | 60% |
| Sep-11 | 61% |
| Oct-11 | 62% |
| Nov-11 | 63% |
| Dec-11 | 60% |
| Jan-12 | 59% |
| Feb-12 | 58% |
| Mar-12 | 65% |
| Apr-12 | 59% |
| May-12 | 54% |
| Jun-12 | 65% |
| Jul-12 | 60% |
| Aug-12 | 62% |
| Sep-12 | 57% |



Why is it Important to Plot Data in Time Order?

- Summary statistics hide information (patterns, outliers)
- In improvement efforts, changes are not fixed, but are adapted over time
- Time series graphs annotated with changes and other events provide evidence of sustained improvement





Three types of visual displays

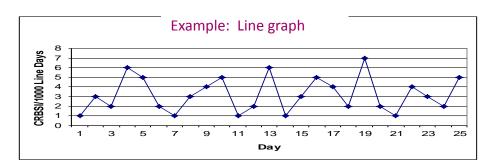
- Line graph
 - series of data over time connected by lines

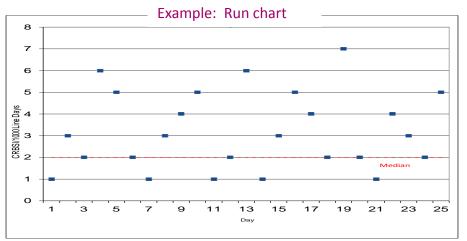
Run chart

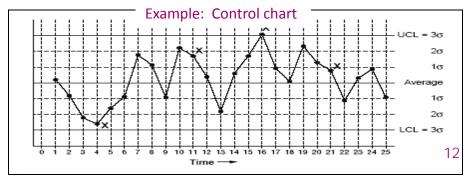
- line or points on a graph with a median
- allows application of rules to detect process change

Control chart

- series of data over time with a mean (average) center line
- upper and lower control limits
- allows statistical identification of change



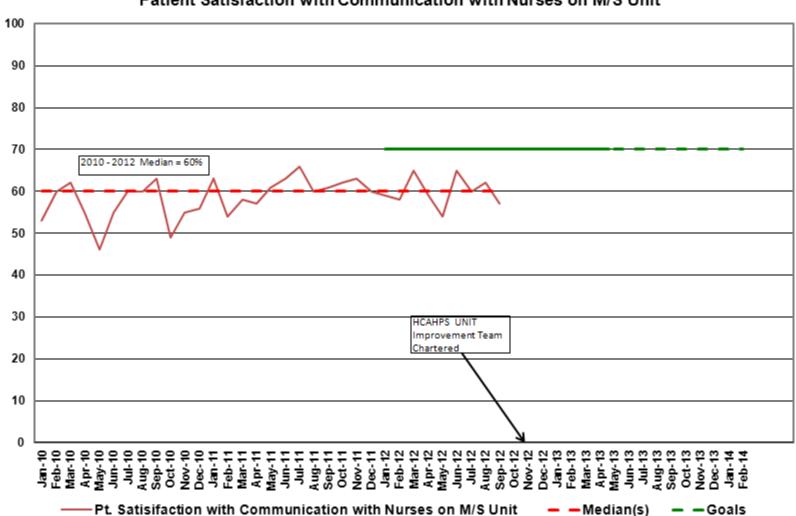






Base-line Data

Patient Satisfaction with Communication with Nurses on M/S Unit





Whiteboard Implementation

- Process measurement:
 - % compliance to whiteboard completion
 - % of nurses compliant to discussing whiteboard with patients
- Proxy outcome measure:
 - % of patients who understand the plan of care presented on the whiteboard

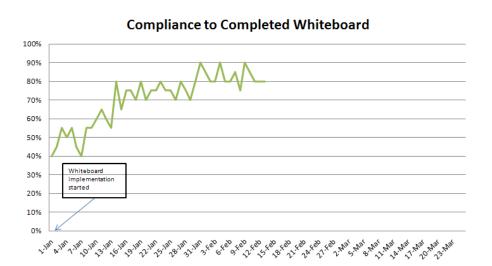


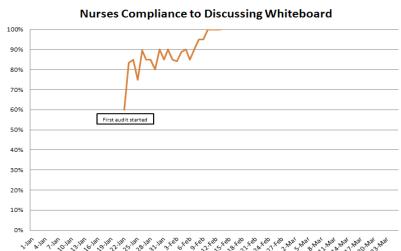
Process Measures and Proxy Outcome

| | | Process Measures | | | | | Proxy Outcome | | | |
|---------|--------|-----------------------|--------|-------------------|-------------------|----------|---------------|---------------|----------|------------|
| | | | | Process ineasures | | | | Proxy Outcome | | |
| | Data | Completed Whiteboard? | | | RN Discuss Board? | | | PT Know Plan? | | |
| | Date | | | | | | | | | |
| | | | Total | % | | Total | % | | Total | % |
| | | #Yes | Boards | Compliance | #Yes | Patients | Compliance | #Yes | Patients | Compliance |
| | 1-Jan | 8 | 20 | 40% | | | | | | |
| | 2-Jan | 9 | 20 | 45% | | | | | | |
| | 3-Jan | 11 | 20 | 55% | | | | | | |
| | 4-Jan | 10 | 20 | 50% | | | | | | |
| | 5-Jan | 11 | 20 | 55% | | | | | | |
| | 6-Jan | 9 | 20 | 45% | | | | | | |
| 1 Week | 7-Jan | 8 | 20 | 40% | | | | | | |
| | 8-Jan | 11 | 20 | 55% | | | | | | |
| | 9-Jan | 11 | 20 | 55% | | | | | | |
| | 10-Jan | 12 | 20 | 60% | | | | | | |
| | 11-Jan | 13 | 20 | 65% | | | | | | |
| | 12-Jan | 12 | 20 | 60% | | | | | | |
| | 13-Jan | 11 | 20 | 55% | | | | | | |
| 2 Weeks | 14-Jan | 16 | 20 | 80% | | | | | | |
| | 15-Jan | 13 | 20 | 65% | | | | | | |
| | 16-Jan | 15 | 20 | 75% | | | | | | |
| | 17-Jan | 15 | 20 | 75% | | | | | | |
| | 18-Jan | 14 | 20 | 70% | | | | | | |
| | 19-Jan | 16 | 20 | 80% | | | | | | |
| | 20-Jan | 14 | 20 | 70% | | | | | | |
| 3 Weeks | 21-Jan | 15 | 20 | 75% | | | | | | |
| | 22-Jan | 15 | 20 | 75% | 12 | 20 | 60% | 12 | 20 | 60% |
| | 23-Jan | 16 | 20 | 80% | 15 | 18 | 83% | 13 | 18 | 72% |
| | 24-Jan | 15 | 20 | 75% | 17 | 20 | 85% | 15 | 20 | 75% |
| | 25-Jan | 15 | 20 | 75% | 15 | 20 | 75% | 15 | 20 | 75% |
| | 26-Jan | 14 | 20 | 70% | 17 | 19 | 89% | 17 | 19 | 89% |
| | 27-Jan | 16 | 20 | 80% | 17 | 20 | 85% | 17 | 20 | 85% |
| 4 Weeks | 28-Jan | 15 | 20 | 75% | 17 | 20 | 85% | 16 | 20 | 80% |
| | 20-lan | 1/1 | 20 | 70% | 16 | 20 | 80% | 15 | 20 | 75% |



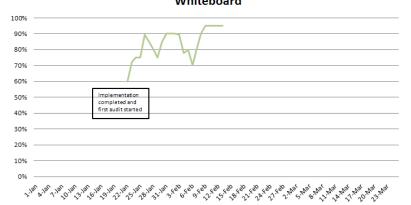
Process Measures





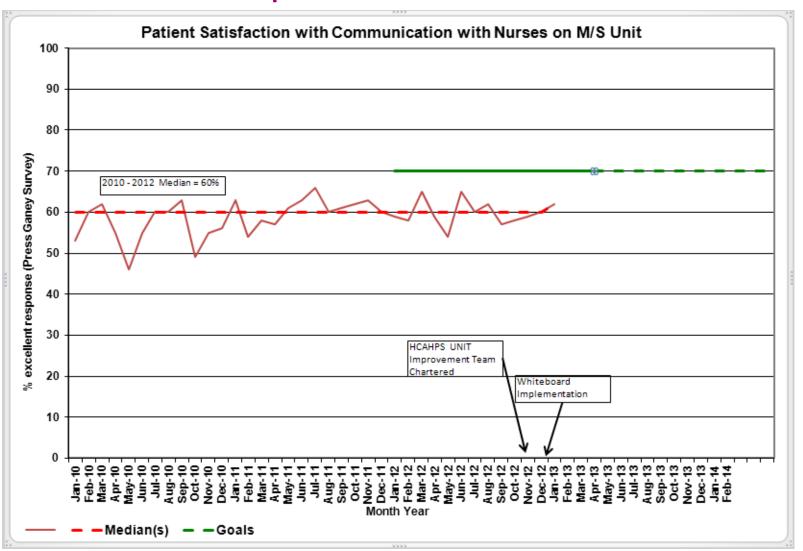
Proxy Outcome Measure

Percent of Patients who Understand the Plan on the Whiteboard





Whiteboard Implementation





Making Improvements "The Norm"

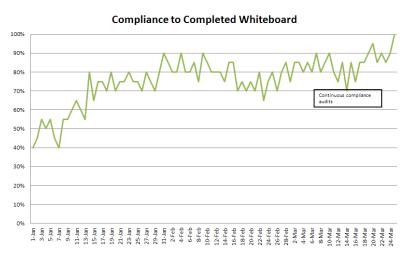
 To ensure that improvements are permanent and steady, the new way of working should become the regular way of working.

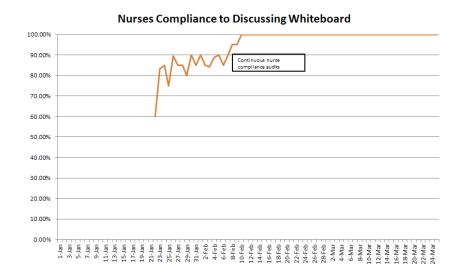
 It is important to address sustainability because improved outcomes achieved during the implementation phase of a project do not automatically result in lasting improvements.



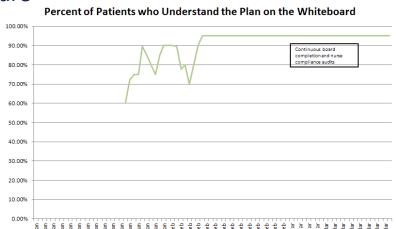
Continuous Auditing

Process Measures



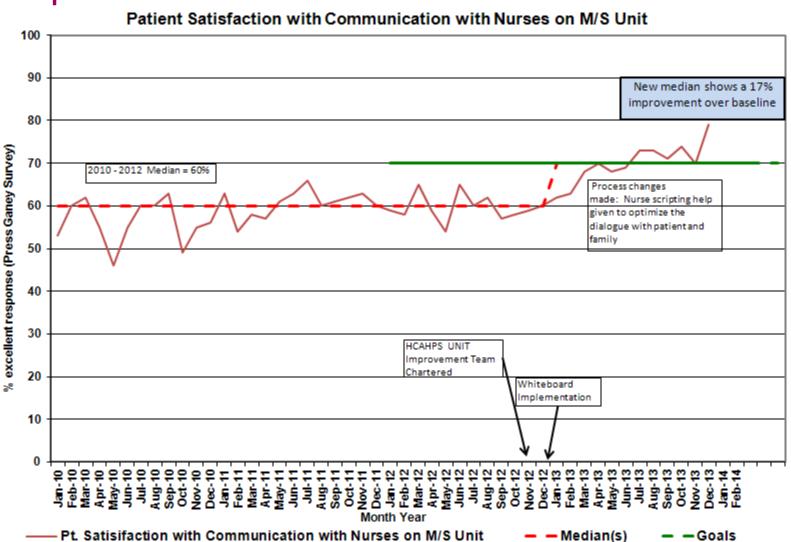


Proxy Outcome Measure





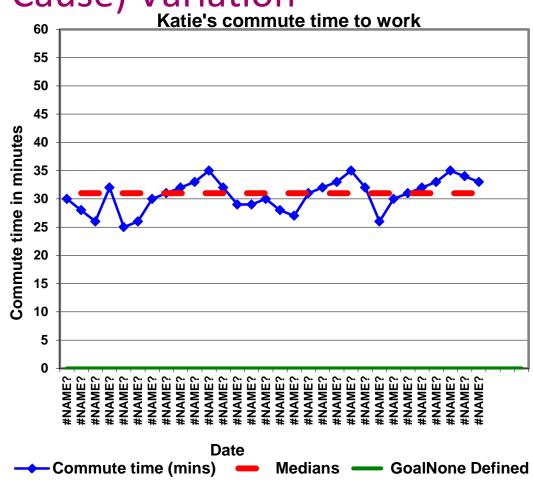
Improved Outcomes





Random (Common Cause) Variation

- "Unassigned" variation
- Is present in all processes reflects "business as usual"
- Does not judge whether the process is "good" or "bad"
- Is predictable

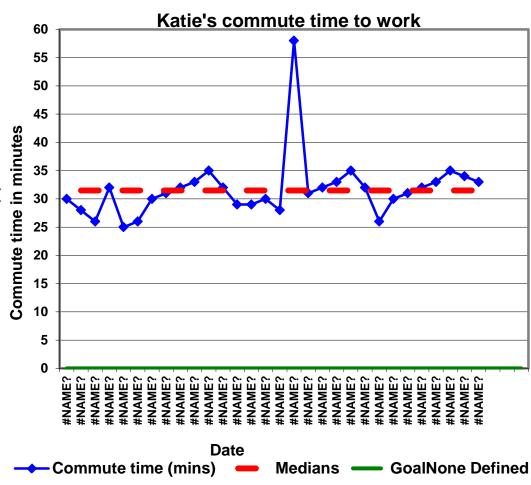


Example: Arrival time to work varies when driving due to traffic lights and weather conditions.



Non-Random (Special Cause) Variation

- "Assignable" variation
 - Is assignable to a specific cause
 - Is a special circumstance that is not part of the process – not "business as usual"
- Helps you determine if your change is an improvement

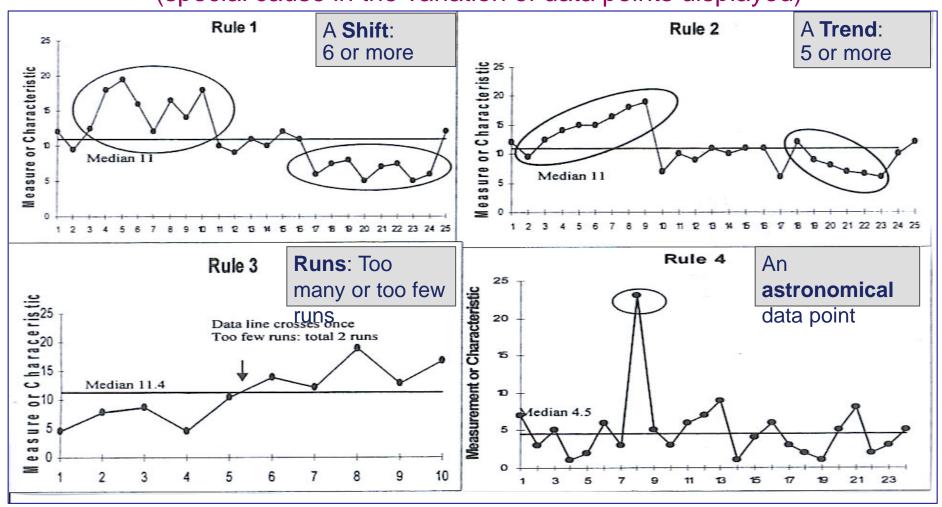


Example: Arrival time to work varied one time due to a breakdown of the car or involvement in an accident.



TRANSFORMATIONCENTER

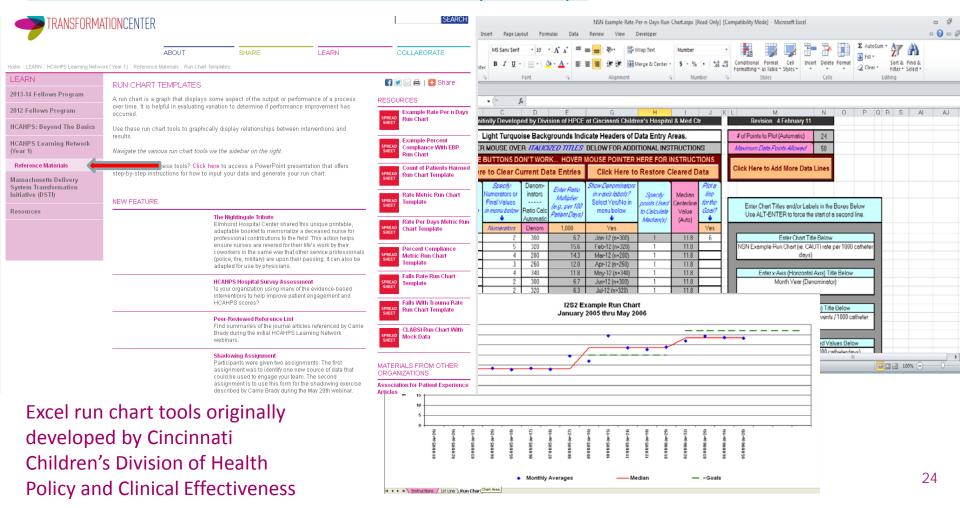
Rules for Detecting a Process Change in a Run Chart (special cause in the variation of data points displayed)





Resources: Run Chart Template Tools

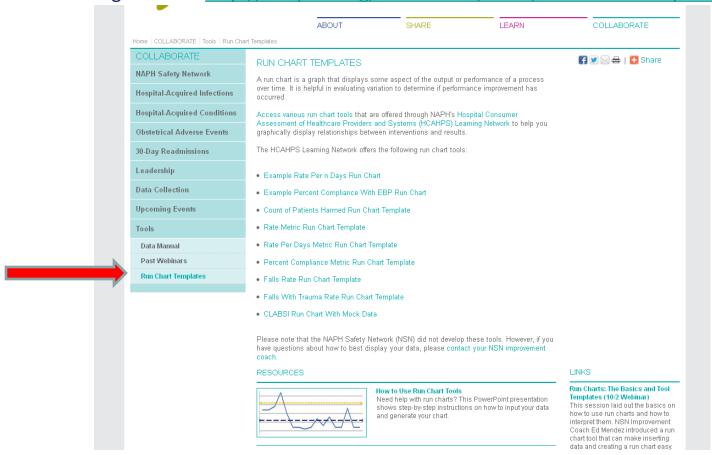
Found at: http://tc.nphhi.org/Learn/Patient-Engagement-HCAHPS-Learning-Network/Reference-Materials/Run-Chart-Templates.aspx





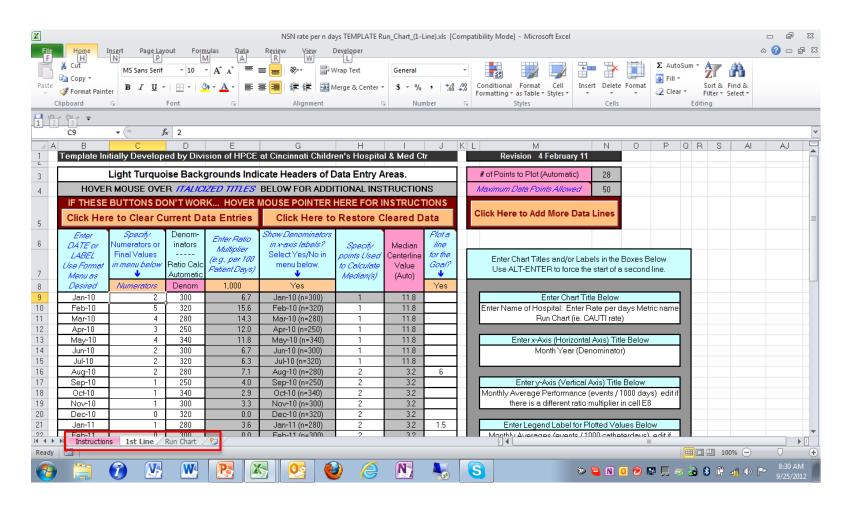
Step-by-Step Demonstration: Run Chart Tools (Excel Templates)

See recording found at http://tc.nphhi.org/Collaborate/Tools/Run-Chart-Templates.aspx





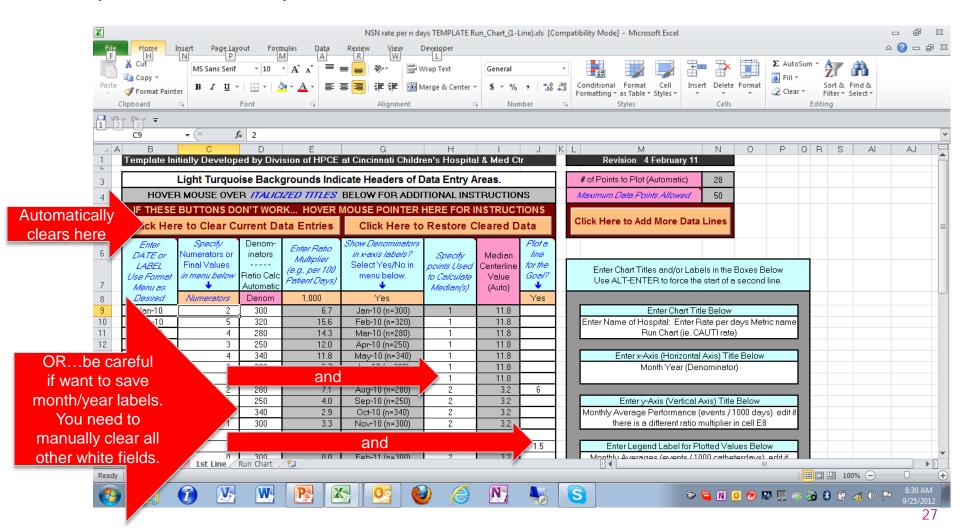
Orientation to Run Chart Tools' Three Tabs





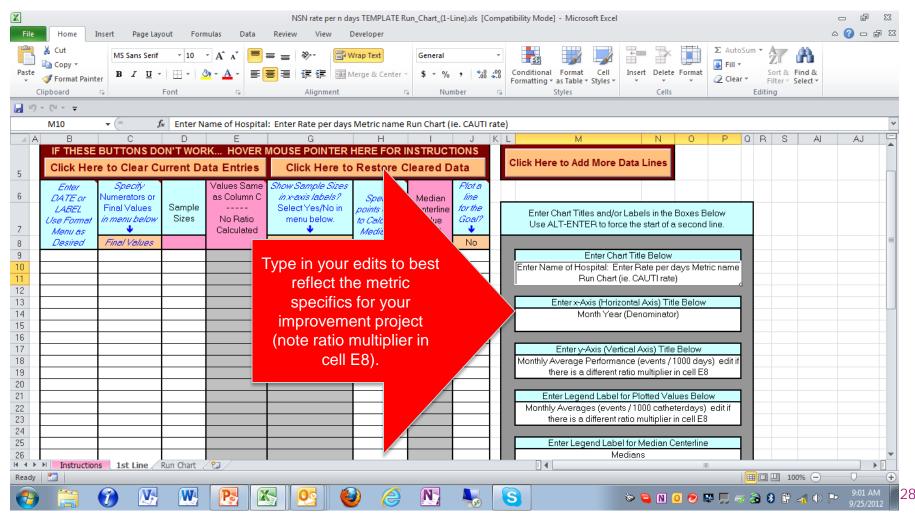
TRANSFORMATIONCENTER

Step 1: Clear data entries in sample template. Save with new name on your own computer.





Step 2: Edit the titles and legends fields as suggested in sample template.



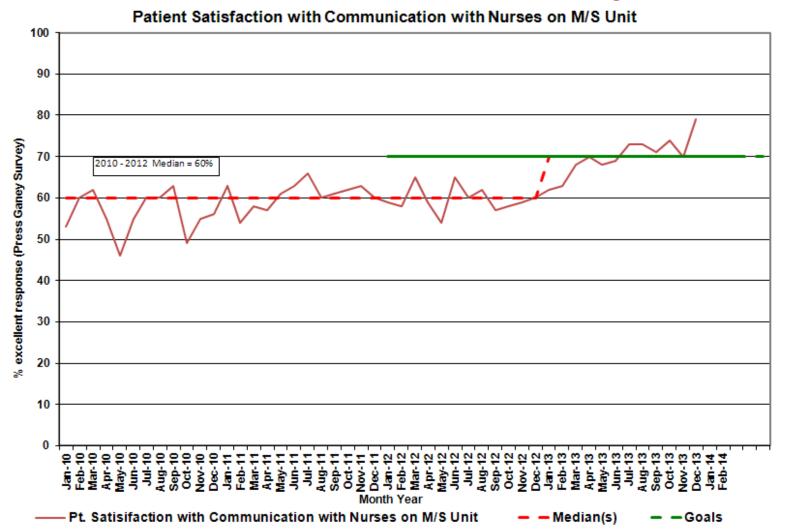


Step 3: Enter numerators and denominators (or just rates if using final values in column C).

| | Α | | С | D | Е | G | Н | I | J | | | | |
|----------|---|---|---|-------------------------------------|--|--|---|---|---|--|--|--|--|
| 1 | | Template Ini | tially Develop | ed by Divi | sion of HPCE | at Cincinnati Childr | en's Hospita | l & Med Ct | r | | | | |
| 3 | Light Turquoise Backgrounds Indicate Headers of Data Entry Areas. | | | | | | | | | | | | |
| 4 | | HOVER MOUSE OVER /TALICIZED TITLES BELOW FOR ADDITIONAL INSTRUCTIONS | | | | | | | | | | | |
| | | IF THESE BUTTONS DON'T WORK HOVER MOUSE POINTER HERE FOR INSTRUCTIONS | | | | | | | | | | | |
| 5 | | Click Her | e to Clear Cı | urrent Da | ıta Entries | Click Here to Restore Cleared Data | | | | | | | |
| 6 | | Enter DATE or LABEL Use Format Menu as | Specify Numerators or Final Values in menu below | Denom- inators Ratio Calc | Enter Ratio Multiplier (e.g., per 100 Patient Days) | Show Denominators in x-axis labels? Select Yes/No in menu below. | Specify points Used to Calculate Median(s) | Median Centerline Value (Auto) | Plot a line for the Goal? ◆ | | | | |
| 8 | | Desired | Numerators | Denom | 1 | No | | · ···-/ | No | | | | |
| 9 | | Jan-10 | | | | Jan-10 | 1 | | | | | | |
| 10 | | Feb-10 | | | | Feb-10 | | | | | | | |
| 11 | | Mar-10 | | | | Mar-10 | | | | | | | |
| 12 | | Apr-10 | | | | Apr-10 | | | | | | | |
| 13 | | May-10 | | | | May-10 | | | | | | | |
| 14 | | Jun-10 | | | | Jun-10 | | | | | | | |
| 15 | | Jul-10 | | | | Jul-10 | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |
| | H ← ► H Instructions 1st Line Run Chart / Ca | | | | | | | | | | | | |

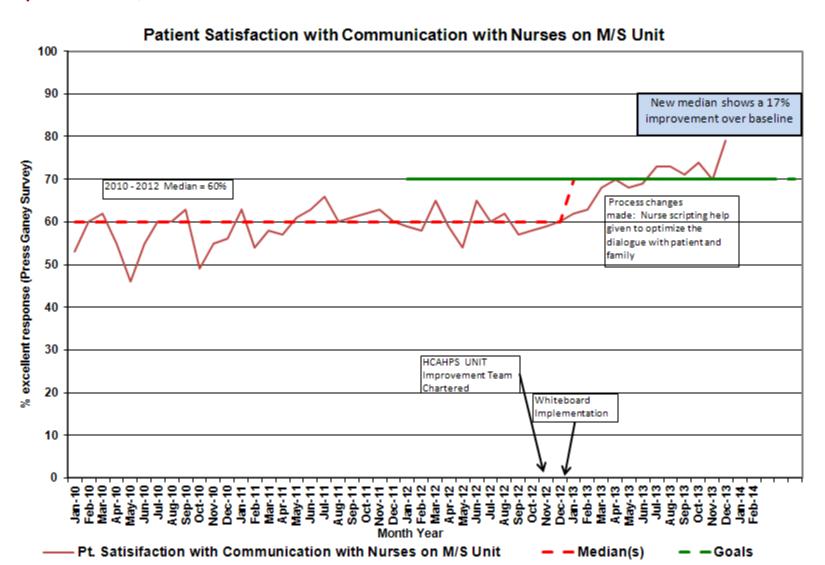


Step 4: Click on the "Run Chart" tab to see if the display makes sense. Edit font sizes as needed -OR- return to "1st line" tab to edit title / axis / legend fields.



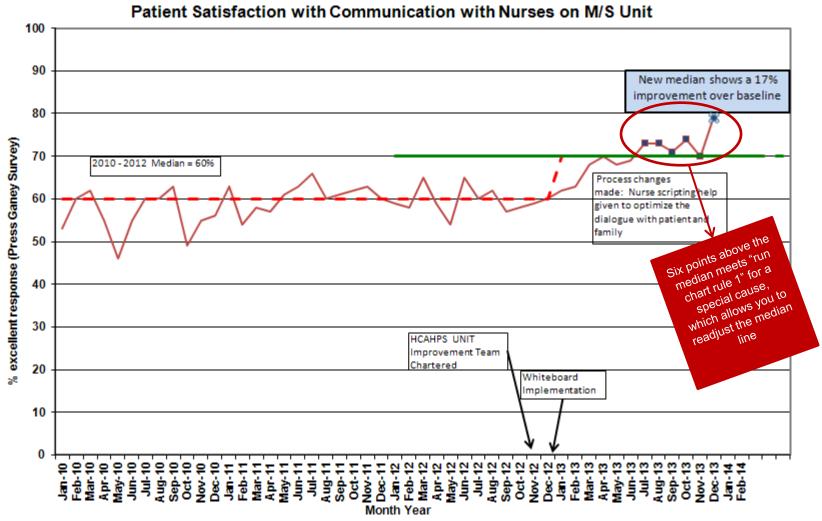


Step 5: Edit / add annotations to run chart.





Step 6: Return to "Run Chart" tab. Use run chart rules to identify special cause variation. Readjust median line as applicable.



— Median(s)

Pt. Satisifaction with Communication with Nurses on M/S Unit

—Goals



Next Steps

- For more information on run charts, please read <u>The run</u>
 <u>chart: a simple analytical tool for learning from variation</u>
 <u>in healthcare processes</u>, also found on our reference list.
- The case study and tools will be posted on our website soon. Please make sure you download the tools and practice using them.
- Please take advantage of your valuable IHI Open School access.



Next Steps

- Please look forward to our next Webinar on March 27th:
 Ensuring Leadership Engagement
 - Pre-work:
 - Take complimentary IHI Open School Course* on "The Human Side of Quality Improvement" (Contact your Team Leader for registration information regarding complimentary IHI Open School registration)
 - 1. Overcoming Resistance to Change
 - 2. What Motivates People to Change
 - 3. Culture Change vs. Process Change



Next Steps

- What topics would you like to read about on our community? Help us provide you with what you want.
- Should you have any further questions, please contact:
 - Mai AlSokair
 - Email: <u>malsokair@naph.org</u>
 - Phone: (202) 495-3350
 - Jane Hooker
 - Email: jhooker@naph.org
 - Phone: (202) 585-0134