

Benchmarking and Performance Measurement
Leslie Forrester and Zahir Hirji
Teleclass broadcast sponsored by **GOJO (www.gojo.com)**

Benchmarking and Performance Measurement

Leslie Forrester & Zahir Hirji
CHICA-Canada Annual Conference
Toronto, Canada
May 30, 2011

Teleclass Broadcast
Sponsored by
GOJO
www.gojo.com

www.webbertraining.com May 30, 2011

Context

- * Over the last two decades there have been many developments in the measurement of quality in healthcare.
- * Healthcare organizations are increasingly adopting Balanced Scorecards, Dashboards, Report Cards and public reporting portals to organize and present their performance metrics.
- * Measures typically used in infection prevention and control are increasingly being adopted for performance measurement.

Adapted from BC Patient Safety Quality Council (2010)

Performance Measurement

- * Measurement of healthcare processes, patient outcomes, patient perceptions of care and organization systems and structures associated with the ability to provide high quality care.
- * Performance measures encompass those measures used for public reporting, monitoring and improving quality and pay for performance strategies.
- * Performance measurement implies the use of quantitative process or outcome measures that are assessed against a benchmark or performance goal or target.

Adapted from BC Patient Safety Quality Council (2010)

Objectives

- * Describe the goals and objectives of benchmarking
- * Review the advantages and potential pitfalls of benchmarking
- * Review the process of benchmarking and performance measurement
- * Through the use of a practical example illustrate the value of benchmarking in driving performance improvement

What is benchmarking?

- * The process of comparing your business processes and performance metrics to industry bests and/or best practices from other industries. Dimensions typically measured are quality, time and cost.
- * Benchmarking is used to measure performance using a specific indicator (e.g., rate of healthcare-acquired MRSA) resulting in a metric of performance that is then compared to others.

<http://en.wikipedia.org/wiki/Benchmarking>

Benchmarking goals & objectives

Goal

- *To improve performance

Objectives

- *To understand and evaluate your current performance in relation to others similar to you with exceptional performance
- *To identify areas and means of performance improvement
- *To set performance improvement targets or goals

Broadcast live from the 2011 CHICA-Canada Conference
A Webber Training Teleclass
www.webbertraining.com

Benchmarking and Performance Measurement
Leslie Forrester and Zahir Hiriji
Teleclass broadcast sponsored by GOJO (www.gojo.com)

Types of benchmarking

Benchmarking type	Objectives
Performance	<ul style="list-style-type: none"> To identify areas of poor or weak performance
Process	<ul style="list-style-type: none"> To identify and implement practices that have been successful elsewhere with the goal of performance improvement

Internal and external benchmarks

Internal

- * Involves benchmarking business or operations within the same organization.

External

- * Involves analyzing outside organizations that are known for their outstanding performance. These may be regional, provincial, national or even international.

Advantages & Pitfalls

INTERNAL BENCHMARKING	
Advantages	Potential Pitfalls
<ul style="list-style-type: none"> Access to data and sensitive information Data more likely to be standardized facilitating comparisons Usually requires less time and resources Easier to discover the story behind the numbers 	<ul style="list-style-type: none"> Real innovation may be lacking May not represent "best performance"

Advantages & Pitfalls

EXTERNAL BENCHMARKING	
Advantages	Potential Pitfalls
<ul style="list-style-type: none"> Provides opportunities to learn from those that are on the leading edge. Identification of an appropriate benchmarking partner that is more similar to your healthcare facility, department etc. 	<ul style="list-style-type: none"> Access to information may be limited Can take significant amount of time and resources to assess comparability of information, surveillance methods, patient populations and reported results. Requires careful analysis of national and international differences.

Process of benchmarking

Steps	What to do
Planning	<ul style="list-style-type: none"> Identify what is to be benchmarked Identify appropriate benchmarking partner Determine data collection methods
Data collection and analysis	<ul style="list-style-type: none"> Collect data Determine current "performance gap"
Integration	<ul style="list-style-type: none"> Identify what makes the benchmarking partner so successful Communicate benchmarking findings
Action	<ul style="list-style-type: none"> Develop action plans Set realistic and feasible performance goals Implement specific actions and monitor progress Recalibrate benchmarks

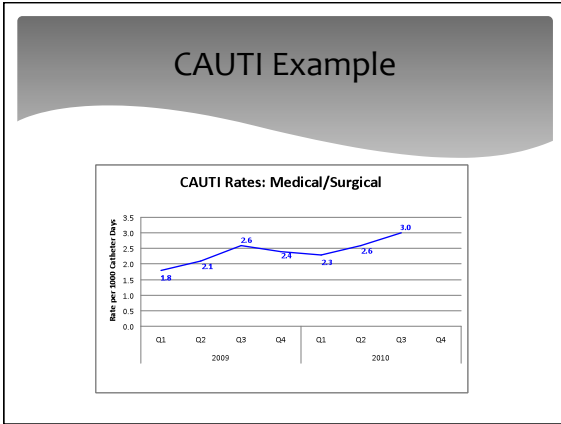
LEARNING THROUGH EXAMPLE

Broadcast live from the 2011 CHICA-Canada Conference
A Webber Training Teleclass
www.webbertraining.com

Benchmarking and Performance Measurement

Leslie Forrester and Zahir Hiriji

Teleclass broadcast sponsored by **GOJO (www.gojo.com)**



PERFORMANCE BENCHMARKING

Identifying an appropriate benchmarking partner

- * Are you using consistent definitions for both numerator and denominator?
- * Does it represent your population of interest?
- * Are the results current?
- * Are the results based on a sufficiently large sample?
- * Is the organization recognized as being credible?

National Healthcare Safety Network (NHSN)

Hospital type	N (%)
Children	41 (2.0)
General, including acute, intensive, and teaching	1000 (88.6)
Long Term Acute Care	49 (2.8)
Military	16 (1.1)
Overseas	11 (0.8)
Orthopedic	8 (0.5)
Psychiatric	8 (0.5)
Rehabilitation	19 (1.3)
Surgical	6 (0.3)
Veterans Affairs	29 (1.7)
Women	4 (0.2)
Women and Children	1 (0.0)
Total	1749 (100)

Hospital type	Bed size category				Total
	<= 200	201-400	401-1000	> 1000	
Major teaching	81 (4.5)	117 (6.7)	89 (4.9)	3 (0.1)	284 (16.0)
Graduate teaching	80 (4.6)	101 (5.8)	22 (1.2)	1 (0.0)	177 (10.2)
Limited teaching	113 (6.5)	74 (4.2)	10 (0.6)	0 (0.0)	197 (11.3)
Non-teaching	434 (24.7)	237 (13.6)	19 (1.1)	1 (0.0)	1081 (62.0)
Total	1113 (63.4)	497 (28.4)	134 (7.7)	6 (0.3)	1749 (100)

Major: Hospital is an important part of the teaching program of a medical school and the majority of medical students rotate through multiple clinical services.

Graduate: Hospital is used by the medical school for graduate training programs only (i.e., residency and/or fellowships).

Limited: Hospital is used in the medical school's teaching program only to a limited extent.

NHSN Report: Data Summary for 2009, Device Associated Module (2010)

Table 5. Pooled means and key percentiles of the distribution of urinary catheter-associated UTI rates and urinary catheter utilization ratios, by type of location, DA module, 2009

Type of location	No. of Institutions	No. of CAUTIs	Urinary Catheter Utilization Ratio	Pooled Mean	Percentile				
					15%	25%	50%	75%	90%
Adult Step Down Unit (non-critical care)	153 (148)	389	206,542	1.9	0.0	0.0	1.2	2.6	4.3
Behavioral Health/Psych	71 (27)	6	4,526	5.3	0.0	0.0	0.0	0.0	5.0
Geriatric/Long Term	6	12	9,992	5.2					
Gynecology	16 (15)	12	11,766	1.0					
Labor and Delivery	21 (15)	5	7,449	0.7					
Labor, Delivery, Recovery, Postpartum Suite	56 (50)	7	20,079	0.3	0.0	0.0	0.0	0.0	1.7
Medical	213 (208)	430	230,912	1.9	0.0	0.0	1.4	2.4	4.3
Medical/Surgical	623 (602)	1,341	711,849	1.6	0.0	0.0	1.0	2.5	4.2
Neurology	11	39	12,543	3.1					
Neurosurgical	17	52	21,628	2.9					
Orthopedic	66 (64)	104	95,010	1.4	0.0	0.0	0.6	2.7	3.5
Orthopedic/Trauma	5	14	7,070	2.0					
Public Health/Surg	63 (54)	11	8,293	1.3	0.0	0.0	0.0	0.0	6.2
Public Health/Non-Surg	14 (8)	2	1,240	1.6					
Public Health/Rehabilitation	5 (0)	1	371	3.7					
Psychiatry	77 (75)	31	32,566	0.8	0.0	0.0	0.0	0.8	2.9
Pulmonary	5	17	9,917	1.7					
Rehabilitation	147 (132)	258	66,851	3.8	0.0	0.0	2.4	4.8	9.2
Surgical	109	285	153,942	1.8	0.0	0.0	1.4	2.7	4.7
Urologic Surgery	6 (5)	29	6,160	3.3					

NHSN Report: Data Summary for 2009, Device Associated Module (2010)

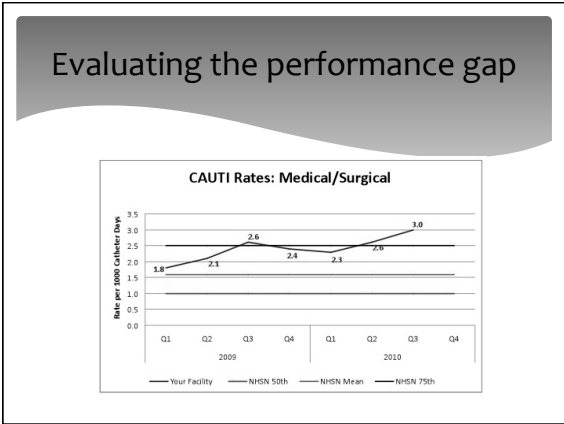
Table 5. Pooled means and key percentiles of the distribution of urinary catheter-associated UTI rates and urinary catheter utilization ratios, by type of location, DA module, 2009

Type of location	No. of Institutions	No. of CAUTIs	Urinary Catheter Utilization Ratio	Pooled Mean	Percentile				
					15%	25%	50%	75%	90%
Adult Step Down Unit (non-critical care)	153 (148)	389	206,542	1.9	0.0	0.0	1.2	2.6	4.3
Behavioral Health/Psych	71 (27)	6	4,526	5.3	0.0	0.0	0.0	0.0	5.0
Geriatric/Long Term	6	12	9,992	5.2					
Gynecology	16 (15)	12	11,766	1.0					
Labor and Delivery	21 (15)	5	7,449	0.7					
Labor, Delivery, Recovery, Postpartum Suite	56 (50)	7	20,079	0.3	0.0	0.0	0.0	0.0	1.7
Medical	213 (208)	430	230,912	1.9	0.0	0.0	1.4	2.4	4.3
Medical/Surgical	623 (602)	1,341	711,849	1.6	0.0	0.0	1.0	2.5	4.2
Neurology	11	39	12,543	3.1					
Neurosurgical	17	52	21,628	2.9					
Orthopedic	66 (64)	104	95,010	1.4	0.0	0.0	0.6	2.7	3.5
Orthopedic/Trauma	5	14	7,070	2.0					
Public Health/Surg	63 (54)	11	8,293	1.3	0.0	0.0	0.0	0.0	6.2
Public Health/Non-Surg	14 (8)	2	1,240	1.6					
Public Health/Rehabilitation	5 (0)	1	371	3.7					
Psychiatry	77 (75)	31	32,566	0.8	0.0	0.0	0.0	0.8	2.9
Pulmonary	5	17	9,917	1.7					
Rehabilitation	147 (132)	258	66,851	3.8	0.0	0.0	2.4	4.8	9.2
Surgical	109	285	153,942	1.8	0.0	0.0	1.4	2.7	4.7
Urologic Surgery	6 (5)	29	6,160	3.3					

NHSN Report: Data Summary for 2009, Device Associated Module (2010)

Broadcast live from the 2011 CHICA-Canada Conference
 A Webber Training Teleclass
 www.webbertraining.com

Benchmarking and Performance Measurement
Leslie Forrester and Zahir Hiriji
Teleclass broadcast sponsored by GOJO (www.gojo.com)



PROCESS BENCHMARKING

Learning from the “high performer”

MSICU, Saint Joseph Medical Center, Towson, MD

- * Staff required to sign a pledge to perform proper catheter insertion and maintenance
- * Communication strategy to raise awareness and remind staff of bundle
- * Sharing of CAUTI rates with staff
- * Staff required to review aseptic procedure for catheter insertion and maintenance
- * Posters placed in strategic locations to inform staff of CAUTI initiative
- * Goal sheet created and shared with staff
- * Infection Prevention attended daily clinical multidisciplinary rounds to instill practice of daily assessment of patient’s need for catheterization
- * Pocket guide created for easy reference to the bundle

http://www.manandpatientafety.org/html/education/solutions/2011/documents/Maintaining%20a%20Reduction%20in%20CAUTIs%20Rates%20in%20MSICU_F.pdf

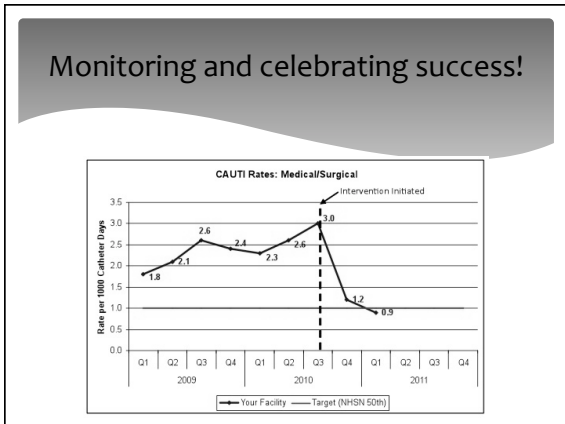
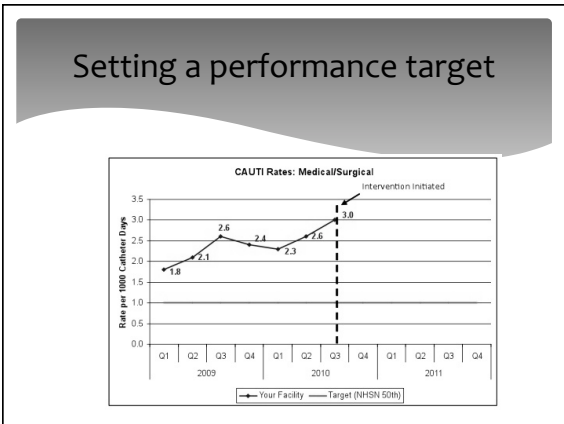
Learning from the “high performer”

Adapting “lessons learned” to your setting

Communication, communication, communication!

- * Adapt “ICU daily rounds” for assessment of indications for catheterization (e.g., indications for catheterization included in the order for catheter insertion)
- * Raise awareness of CAUTI issue and your performance compared to NHSN benchmark
- * Communicate your target to staff
- * Regularly report CAUTI rates to ward staff illustrating where they are in relation to the “target”
- * Routinely remind staff of the CAUTI initiative

http://www.manandpatientafety.org/html/education/solutions/2011/documents/Maintaining%20a%20Reduction%20in%20CAUTIs%20Rates%20in%20MSICU_F.pdf




Broadcast live from the 2011 CHICA-Canada Conference
A Webber Training Teleclass
www.webbertraining.com

Benchmarking and Performance Measurement

Leslie Forrester and Zahir Hiriji

Teleclass broadcast sponsored by GOJO (www.gojo.com)

Driving performance improvement



- * Benchmarking is a key component of a continuous improvement process with the goal of keeping abreast of ever-improving practice.
- * To be successful, benchmarking should focus on learning about **why** something works well rather than focusing on **what** works well.

* Image: <http://pdpinnovates.wordpress.com/2010/03/21/why-sell-yourself-short-position-the-business-value-of-your-work>

Acknowledgements

- * Jackie Galluzzo, Infection Preventionist, Saint Joseph Medical Center in Towson, Maryland.

References

BC Patient Safety and Quality Council. Measurement strategies for improving the quality of care: A review of best practice. Vancouver, (BC) 2010. (Available from: www.bcpsqc.ca) Accessed May 7, 2011.

Langley CL, et al. *The improvement guide: A practical approach to enhancing organizational performance*. 2nd ed. San Francisco, CA: Jossey-Bass; 2009.


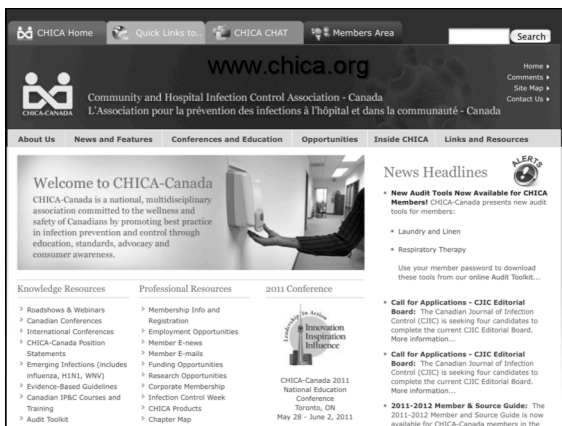
Richards C, Emori G, Peavy G, Gaynes R. Promoting quality through measurement of performance and response: Prevention success stories. *ED* 2001;7:299-301.

Camp RC. *Benchmarking: The search for industry best practices that lead to superior performance*. Milwaukee, WI: American Society for Quality Control; 1989.

Dudeck MA, Horan TC, Peterson KD, Bridson KA, Morell CC, Pollack DA, Edwards JR. National Healthcare Safety Network (NHSN) Report, Data Summary for 2009, Device-associated Module. Available from: <http://www.cdc.gov/nhsn/PDFs/dataStat/2010NHSNReport.pdf> Accessed May 9, 2011.

Galluzzo J. et al. Maintaining a reduction in CAUTI rates in MSICU after implementing a CAUTI bundle. Saint Joseph Medical Center. Poster presented at Annual Maryland Patient Safety Conference (April 2011) http://www.marylandpatientsafety.org/html/education/solutions/2011/documents/Maintaining%20a%20Reduction%20in%20CAUTI%20Rates%20in%20MSICU_Epd.pdf Accessed May 16, 2011

Questions

The screenshot shows the CHICA-Canada website homepage. At the top, there is a navigation bar with 'CHICA Home', 'Quick Links to...', 'CHICA CHAT', and 'Members Area'. Below this is the CHICA-Canada logo and name in both English and French. The main content area features a 'Welcome to CHICA-Canada' message, a 'News Headlines' section with several articles, and a '2011 Conference' section. The website is organized into columns for navigation and content.

Broadcast live from the 2011 CHICA-Canada Conference
A Webber Training Teleclass
www.webbertraining.com