

Clinical Safety & Effectiveness Session # 11

Clinical Staff Competency Training



SAN ANTONIO

The Team

Division

- CS & E Participant Carlayne Jackson, MD
- CS & E Participant Nicole Buenning, MHA
- Team Member Alisha Chini, RN
- Team Member Amanda Bryant
- Team Member Delia Villarreal
- Team Member Ladonna Adams
- Facilitator Amruta Parekh, MD, MSPH

Sponsor Department

President / CEO UT Medicine - Thomas Mayes, MD, MBA

What We Are Trying to Accomplish?

OUR AIM STATEMENT

The goal of this project is to improve Clinical Staff Competency in our outpatient UT Medicine clinics by July 15, 2009.

Project Milestones

Team Created March 2009

AIM statement created
 March 2009

Weekly Team Meetings March - August

Background Data, Brainstorm Sessions March - April

Workflow and Fishbone Analyses March – April

Interventions Implemented April - May

Data Analysis
 June - August

CS&E Presentation
 August 28, 2009

Background

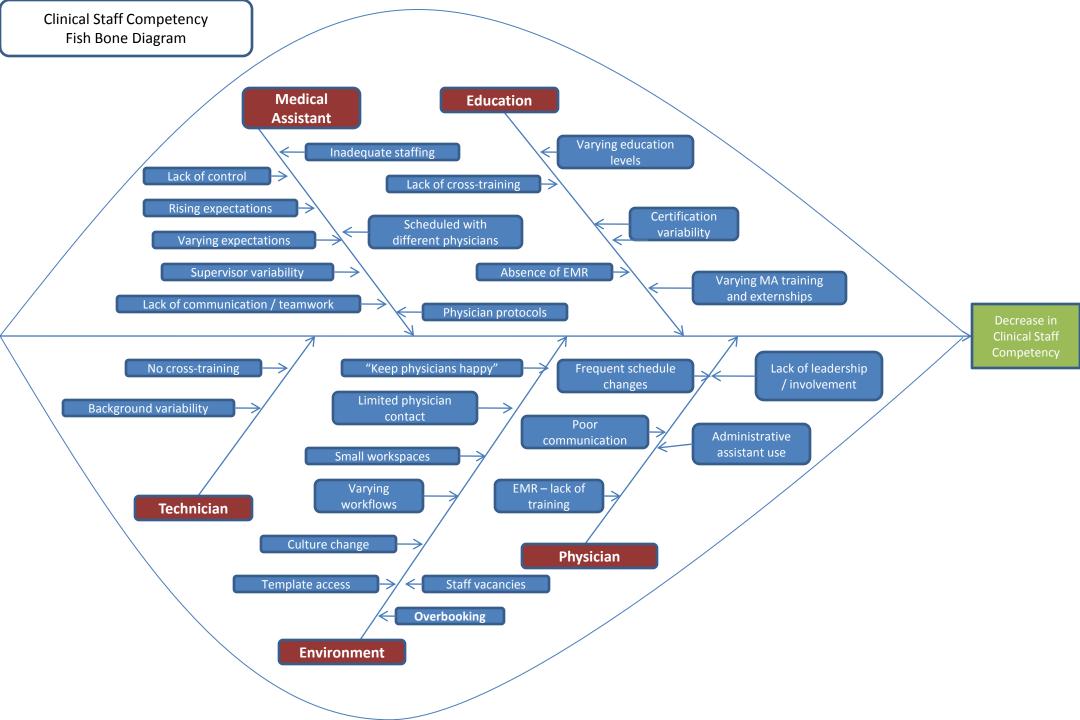
- Blue Ribbon Tours February / March 2009
 - Provider Satisfaction
- EpicCare Implementation
 - Increased Intake Times
- Inconsistent Medical Assistant training and experience

How Will We Know That a Change is an Improvement?

- Visit Length
 - Time from MA Intake to Checkout
- Pre and Post Training Test Scores
- Provider, Medical Assistant and Technician
 Feedback (Survey Monkey)

Selected Process Analysis Tools

- Brainstorming
 - Clinic Managers
 - Medical Directors
 - Medical Assistants on Project Team
- Fishbone Diagram



Neurology Dept Standard Office Visit 7/07/2008 Front Desk Greets Pt & PSR/Front Desk Collects Staff Arrives Pt in Questionnaire, Epic Files in MR Future Appt Made, Directed to Ancillary Services *** Pt Brings Patient Completed Neurology Questionnaire to Appt Documents or If applicable: confirm Internal PFT's Escorts Pt to Views Pt Arrival on Escorts Pt to Vitals, Medical/ Exam Rm for Performed; Schedule Screen Intake Area to Surgical HX & Discreet Data Vitals: in Epic take Pt Weight Nurse/MA BP, P, HT Meds, taking in Entered into RT MR, ROS Form; File in MR Notify physician patient here for Sends Pt to Front Procedure? procedure. Nurse/ MD Notified Pt in LP, Botox, Desk with MA Gathers Exam Rm Nerve Block Supplies for discharge Procedure instructions (i.e. AVS, Orders, etc) MD Reviews Interviews Pt and Physician Completes Orders Physician Questionnaire and Performs Physical Documents Gives to Nursing Documents in Appropriate Exam or Staff, close appropriate Information encounter procedure Neurology Form

Selected Decision Making Tools

Histogram

Paired T-Test

Statistical Process Control

Survey

Background Data



WE MAKE LIVES BETTER

SPRING 2009 BLUE RIBBON SCORECARD

Scale: 5=exceptional 4=good 3=fair 2=needs work 1=unacceptable

Exceeds Target

Within Target Range

Below Target

Clinic Manager

Provider-Related Issues

Daily Operations

Clinics with less than 4 responses grayed out	Responses	>5
Adequate staffing	Avg rating	4.5
Chart availability for pre-scheduled patients	Avg rating	4.5
Chart completion- labs,reports, etc.	Avg rating	4.5
Readiness of Exam Rooms	Avg rating	4.5
Ability to complete work without interruption	Avg rating	4.5

Process Ratings

Frocess Raunys		
Messaging follow-up	Avg rating	4.0
Lab/test result follow-up	Avg rating	4.0
Notification of no-shows	Avg rating	4.5
Referral/consult note return	Avg rating	4.0
Overall Provider satisfaction score	Avg rating	

	2008 Overall UT Medicine	2009 Overall UT Medicine
L		

58	95
	3.8
3.9	4.0
3.8	3.7
3.8	4.1
3.8	3.6
3.6	3.7
3.3	3.4
3.8	3.7
3.5	3.6
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Clinical Training Pre-Test Statistics

Metric	Number / Score
Number of Pre-Tests Completed	100
Number of Employees who scored less than 80%	18
Pre-Test Completion Rate	95%
Pre-Test Average Score	88%
Pre-Test Pass Rate	80%

Intervention

Plan

- Who All medical assistants and technicians employed in UTM outpatient clinics
- What Provide classroom training on the following topics:
 - Universal Precautions
 - Sterile Technique
 - Vital Signs
 - Point of Care Testing
 - Medication Administration
 - Medical Documentation / Training

Intervention **Plan**

- When 2-3 hour sessions during April and May 2009
- How Curriculum and exam developed by UTM RN Clinic Managers, Helena Crosby and presented by Alisha Chini, RN

Implementing the Change **Do**

- Pre-test was distributed online and participants were asked to take the exam prior to their classroom and hands-on training.
- 12 sessions were held involving 76 Medical Assistants and 28 technicians.
- Post-test was administered immediately following the training session.

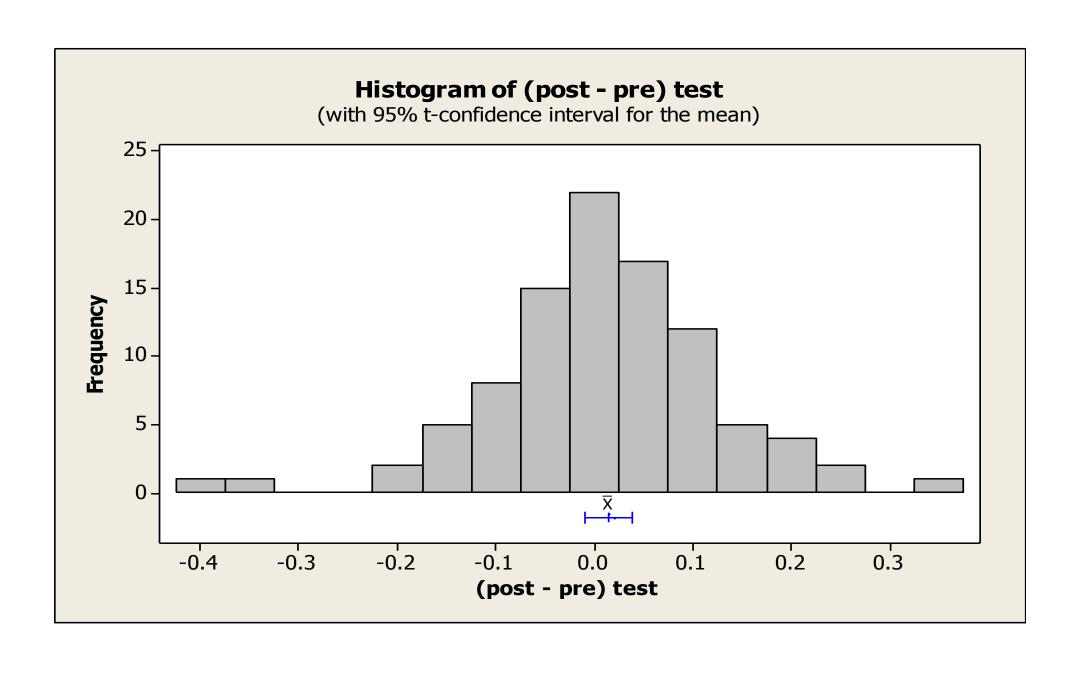
Implementing the Change Do

- Participants not scoring 80% on the post-training exam were offered a second training session. 2/2 employees participated in remedial training and passed.
- A survey was sent to the clinic staff and providers to assess impact of the training.
- Total visit length in the Neurology clinic was assessed pre- and post-training.

Results/Impact Check

Clinical Post-Training Results

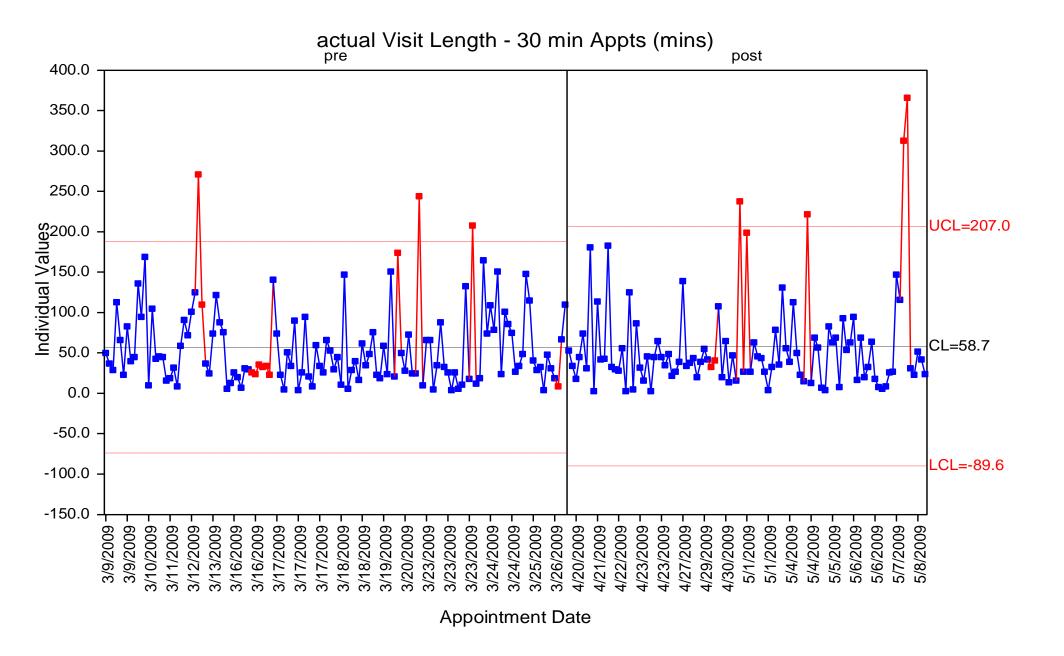
Metric	Number / Score
Number of Post-Tests Completed	103
Number of Employees who scored less than 80%	18
Post-Test Completion Rate	94%
Post-Test Average Score	88%
Post-Test Pass Rate	82%

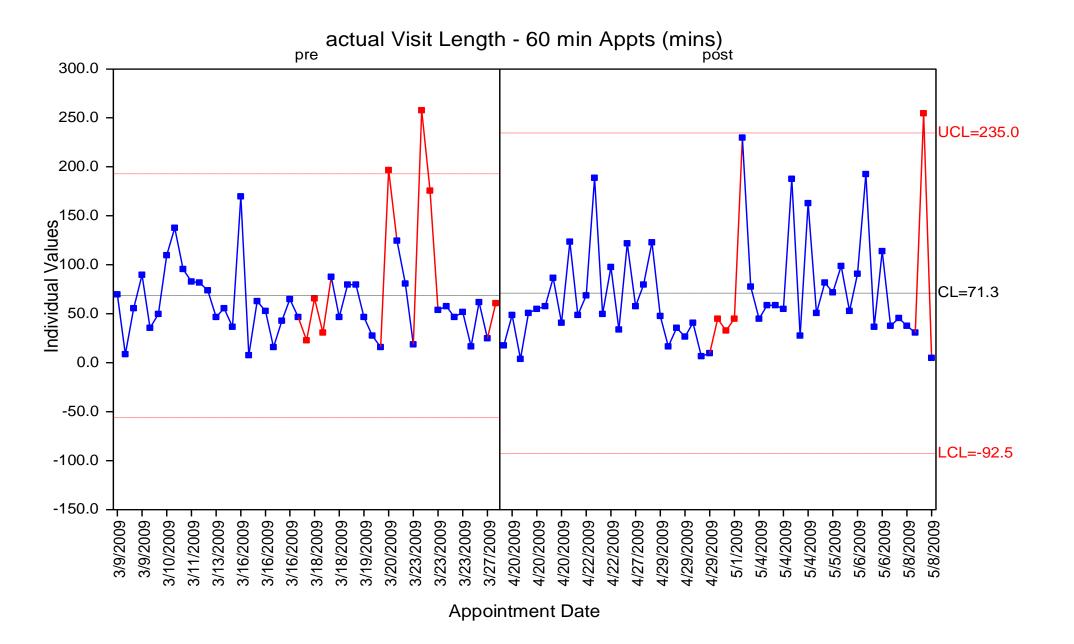


Paired t-test and CI: post-test vs. pre-test scores

	N	Mean	StDev	SE Mean
post-test	95	0.874629	0.093502	0.009593
pre-test	95	0.860040	0.089717	0.009205
Difference	95	0.014589	0.116839	0.011987

95% lower bound for mean difference: -0.005324 t-test of mean difference = 0 (vs > 0): t-value = 1.22 p-value = 0.113





Medical Assistant and Technician Survey Results

	Number of Completed Surveys	62
	Environment promoted learning	4.0
Learning Environment	Environment encouraged instructor/student interaction	
	Environment supported question and answer time	4.1
	Instructor was well prepared and knowledgeable	4.1
	Instructor thoroughly explained training material	3.8
Instructor	Instructor made the learning environment fun and educational	4.0
	Answered questions clearly and concisely	4.1
	Relevant to my daily work	3.6
	Ease of applying material to daily work	3.8
	Beneficial to my job growth	4.0
Course Material	Increased my level of understanding	3.9
	Questions were relevant to my job position	3.5
	Material was clear and concise	3.9
	Material was applicable to every day work environment	3.6
Examination	Adequate time to complete examination	4.0
Lxallillation	Level of difficulty	3.6

Metric rated 4.0 or higher Metric rated 3.9 or less

Provider Survey Results

Number of Surveys	70
Chart Completion	3.5
Exam Room Readiness	3.8
Messaging follow-up	3.6
Lab/test result follow-up	3.5
Medical Documentation	2.5
Medical Terminology	3.5
Safety Precautions	3.9
Medication Administration	3.8
Point of Care Testing	3.8
Vital Signs	3.9
Sterile Technique	4.0

Implementing the Change Do

- Lessons Learned
 - Administer all examinations in person to avoid "open book" or "group" testing.
 - Increase duration of training and provide in no longer than 1-2 hour modules.
 - Provide more time for "hands on" training and assessments.

Expansion of Our Implementation Act

- Emphasize "hands-on training" especially for injection administration and casting
- Develop more "clinic-specific" training in conjunction with Clinic Managers and Medical Directors
 - Medications
 - Disease-specific "emergencies"
 - Procedures

Expansion of Our ImplementationAct

- Expand training to call center staff in order to further improve messaging and documentation and to develop emergency procedure workflow Visio diagram.
- Explore requirements for Medical Assistant certification and ensure that all employees retain active certification.
- Continue annual training on "the basics" with all pre and post-training examinations monitored.

Conclusions

- Competency training is critical to improve messaging, documentation, patient safety, clinic efficiency and patient / provider satisfaction.
- Improvements in competency following training could not be objectively documented. Reasons may include:
 - "Cheating" on pre-test
 - Poor curriculum / teaching techniques
 - Insufficient training period
 - Additional variables affecting visit times

What's Next?

- Clinic-specific competency training with monitored pre- and post-training examinations
- Blue ribbon inspection December 2009 to evaluate issues / concerns of providers / staff which might be addressed with additional training.
- Customer service training

Potential Barriers

- Funding/protected time for Clinical Operations staff and Clinic Managers to develop and conduct training sessions.
- High staff turnover.
- Limited EPIC staff to provide EMR optimization and follow-up training.
- Limited feedback from faculty.
- Absence of teamwork/scheduled "reflection" times

QUESTAOMS?



Educating for Quality Improvement & Patient Safety