Improving Response Times to Patient Messages in the UT Medicine Women's Health Center

Clinical Safety & Effectiveness Cohort# 7



CS.

Educating for Quality Improvement & Patient Safety

DISCLOSURE

Victoria Carter, MD has no relevant financial relationships with commercial interests to disclose.

Helena Crosby, has no relevant financial relationships with commercial interests to disclose.

Susan Crum, RN has no relevant financial relationships with commercial interests to disclose.

Jarrod D. Power has no relevant financial relationships with commercial interests to disclose.

The Team



CS&E Team

- Dr. Victoria Carter Medical Director of Neurology
- Helena Crosby UT Medicine Clinical Operations
- Susan Crum, RN Clinic Manager of UT Medicine Women's Health Center
- Jarrod D. Power EpicCare Specialist

Participants

- Dr. Mysti D.W. Schott Director of Clinical Informatics
- Marisela Casarez, MA Lead Medical Assistant MARC OB/GYN
- Diana Realme MARC OB/GYN Call Center
- Shannon Balmer MARC OB/GYN Call Center
- ❖ Lisa Ponce, MA Medical Assistant MARC OB/GYN
- Rosetta Noela Barrera Epic Clarity Reporting

Facilitators

- Amruta Parekh, MD, MPH
- Leticia Bresnahan, MBA

Our Team Photo



What We Are Trying to Accomplish?

OUR AIM STATEMENT

The aim of this project is to increase the percentage of patient calls returned by the end of the clinic day to 100% by June 1, 2011 in the UT Medicine Women's Health Center.

Project Milestones



Team Created 01/12/2011

AIM Statement Created 01/28/2011

Weekly Team Meetings 01/19/2011 - 06/24/2011

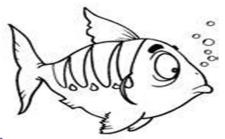
Background Data, Brainstorm Sessions, 01/28/2011 - 03/11/2011 Work flow and Fishbone Analyses

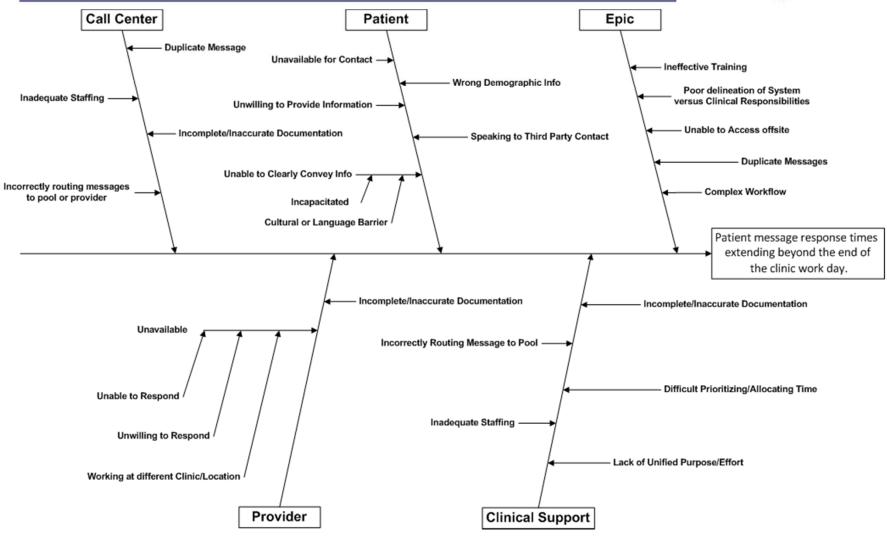
Interventions Implemented 03/01/2011 – 06/01/11

Data Analysis 03/14/2011 – 06/17/11

CS&E Presentation 06/24/2011

Cause & Effect Diagram





UT Women's Health Center Patient Calls (Pre-Intervention) atient Needs to contact the clinic for a question Calls the clinic or medical advice Enter patient info Use existing s there ar Click on Calling for Open Appt Desk to in lookup and click Established Telephone Call" in encounter for existing call on "View Calls" in Patient? Verify Pt Status Appt? documentation encounter? the toolbar the search criteria Center Yes Νo Complete Patient Registration and Schedule Appt Confirm Patient Wish to Call Demographics, Establish Insurance, and Care? Schedule Appt Add incoming Route call Enter provider, contact, RFC, and Complete Patient department and encounter to nurse document Call pool open encounter message Assistant Sort patient call Pend medication Need prior Call pharmacy for messages by refill order in Epic patient refill approval? provider Medical -Yes Review message Return patient call Physician Document contact documentation in Calling for Enter cosigner and and address within response and call ŏ Refill? preview pane and close encounter scope required? documentation open encounter Nurse Route encounter to physician Route to support staff Physician Call patient Review message No documentation in

Place and/or

approve pending

orders

Orders to

place or

approve?

Satien

issue

esolved2

Close encounter

Document contact

and call

documentation

preview pane and

open encounter

Need to

contact

patient?

UT Women's Health Center Patient Calls (Post-Intervention) atient Needs to contact the clinic for a question Calls the clinic or medical advice Click on Enter patient info Use existing s there ar "Telephone Call" in Calling for Open Appt Desk to in lookup and click Established existing call encounter for the toolbar on "View Calls" in Appt? Patient? Verify Pt Status documentation encounter? Notify the caller the search criteria that their call will Center be returned by Complete Patient Yes No the end of the Registration and clinic day Schedule Appt Confirm Patient Wish to S Demographics, Establish Insurance, and Care? Schedule Appt Add incoming contact, Enter provider, Route call RFC, and document Complete Patient encounter to nurse message using the department and Call appropriate open encounter pool documentation template Assistant Sort patient call Pend medication Need prior Call pharmacy for messages by refill order in Epic patient refill approval? provider Medical -Yes-Review message Return patient call Physician Document contact Calling for documentation in Enter cosigner and and address within response and call ŏ Refill? preview pane and close encounter required? documentation scope open encounter Nurse Route encounter to physician Route to support staff Physician Call patient Review message No. documentation in preview pane and Place and/or Orders to Need to Satien Document contact open encounter Close encounter approve pending place or contact

orders

approve?

patient?

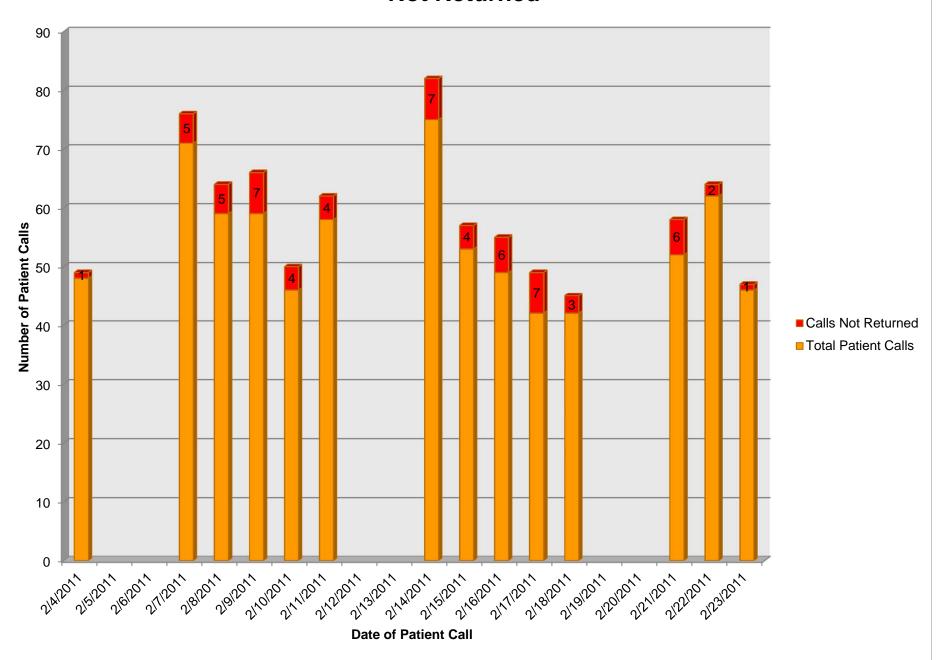
issue

esolved3

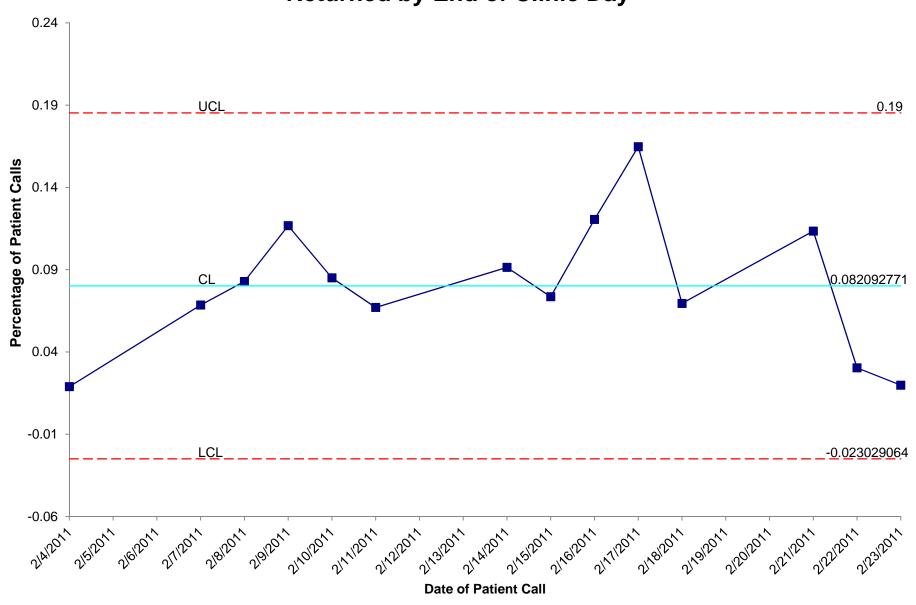
and call

documentation

Pre-Intervention - Raw Number of Total Calls Compared to Calls Not Returned



Pre-Intervention Metrics – Percentage of Patient Calls Not Returned by End of Clinic Day



Background Information

In FY 2010 the Total Call Volume was 51,954

In FY 2011 the Total Call Volume was 59,886



This represents a 15% increase

In FY 2010, there were 7,727 total visits

In FY 2011, there were 8,595 total visits

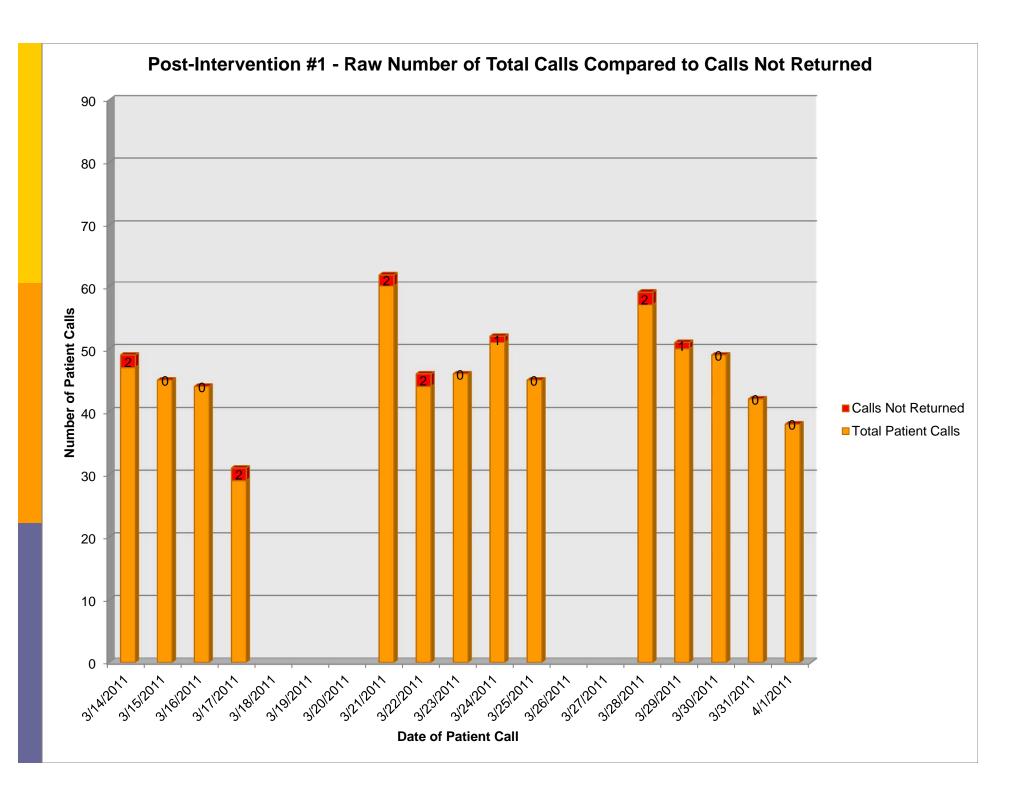
In FY 2012, this amount will increase dramatically due to 5 new physicians being added.

UT Medicine has an expectation to keep the abandonment rates below 5%. Currently, our range is anywhere from 4.6% - 6.0% with 4.5 agents.

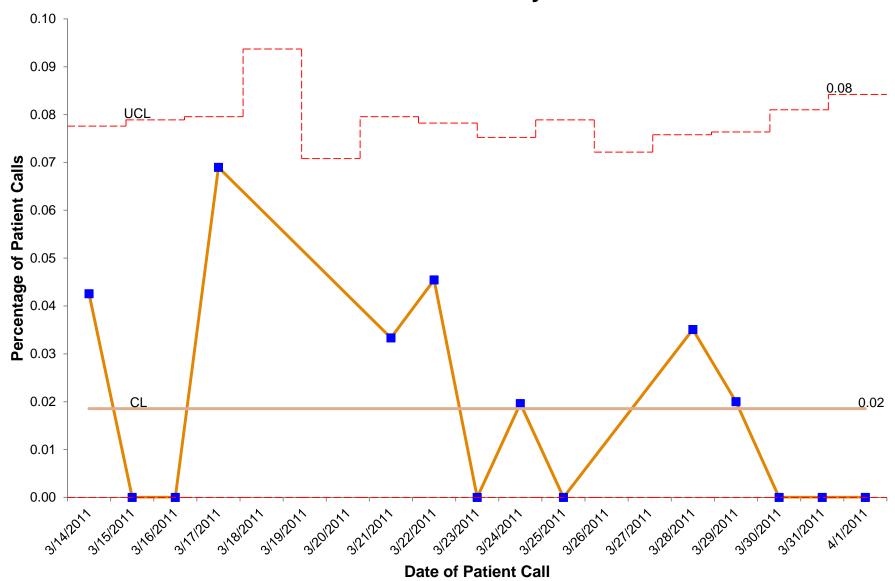
Initial Interventions



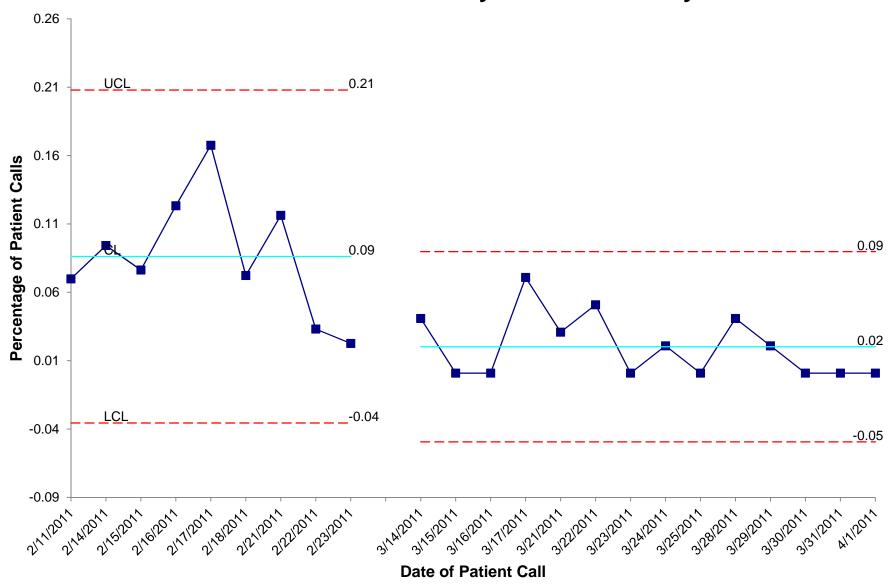
- Modified call center script to include a patient disclaimer "This message will be forwarded to your doctor and their MA. Due to clinic schedules, phone calls are returned at the end of the day" to set appropriate expectations.
- Prioritized clinical support staffs duties to ensure patient calls are returned <u>before</u> other duties assigned.



Post Intervention #1 – Percentage of Patients Not Contacted by End of Clinic Day



Pre & Post Intervention #1 Comparison – Percentage of Patients Not Contacted by End of Clinic Day



Secondary Intervention



- The Call Center employees, in coordination with the Medical Assistants, were asked to list the *Top 10 Reasons Patients Call*.
- Templates were devised, and approved by our Medical Director, to address the key points needed to properly triage the calls appropriately the *first* time around.
- ☐ This helped decrease the amount of calls back and forth between the clinical staff and patients; therefore, decreasing the amount of calls sent to the InBasket.

Template Example

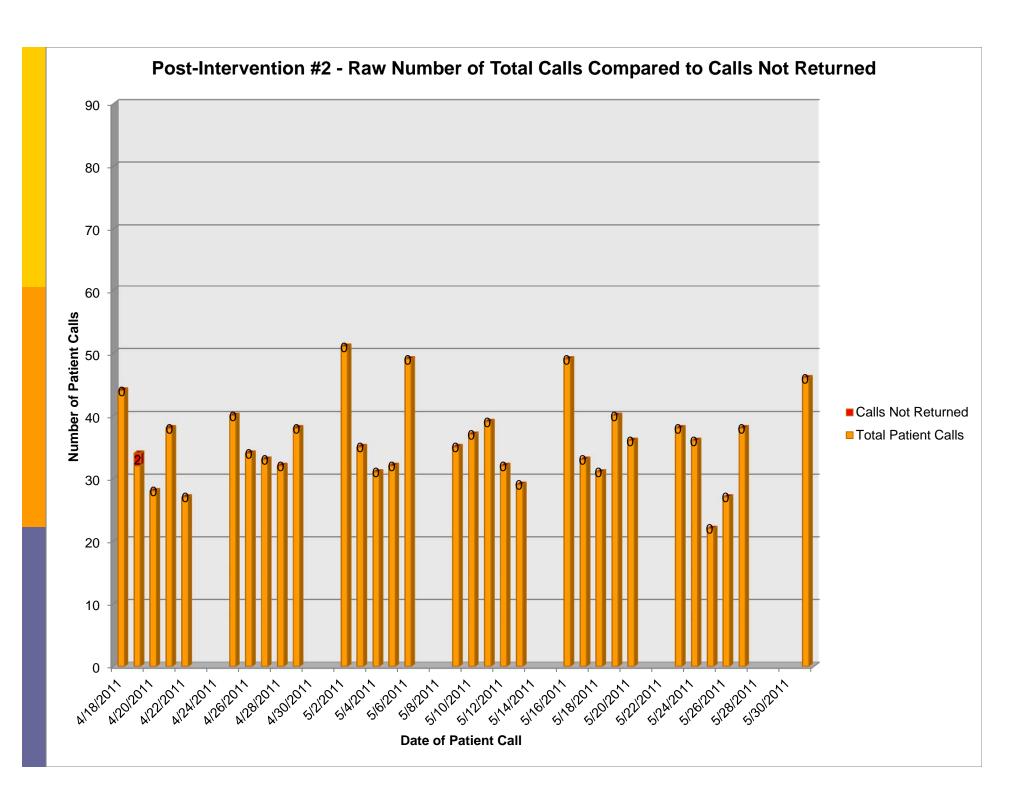
Pelvic/Abdominal Pain with Pregnancy

How long have you experienced this pain?

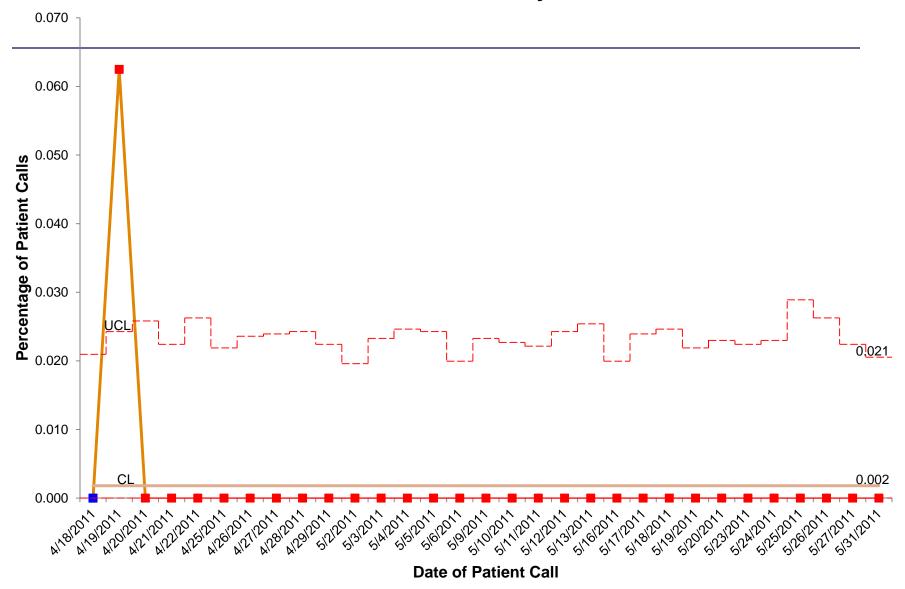
Are you having any contractions (uterine tightening) or bleeding associated with the pain and pressure?

Are you experiencing pelvic pain confined to one location?

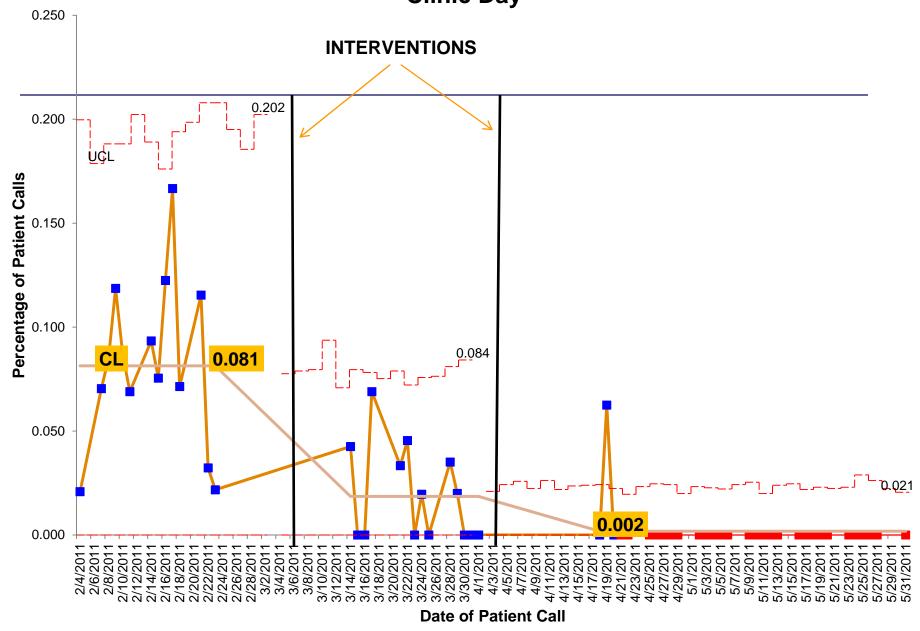
Have you experienced any fever, nausea or bowel changes?



Post Intervention #2 – Percentage of Patients Not Contacted by End of Clinic Day



Total Project – Percentage of Patients Not Contacted by End of Clinic Day



Return on Investment



- □UT Medicine has an expectation to keep the abandonment rate below 5%. Currently, our range is anywhere from 4.7% to 6.0% with 4.5 agents.
- □ By streamlining the Call Center messaging process, there is a chance a new agent may not need to be added since the amount of return calls should be decreased. This could **generate an annual savings of \$27K-\$30K**.
- Ultimately, with projected growth, a new agent will be added but the number of total visits will be much higher as well; therefore, more than offsetting the added expense.

Return on Investment - 2



With all calls being returned in a timely fashion potential liability is decreased.

"... failing to respond to patient's emails [messages] within a reasonable amount of time, could constitute a violation of the standard of care." (Mangalmurti, Murtagh & Mello, 2010, p. 2065)

This may have medico-legal benefits since research has linked a propensity to sue with patients' satisfaction with their physician and the physician's communication skills (Levinson, Roter, Mullooly, Dull, & Frankel, 1997).

Return on Investment - 3



When patient satisfaction is increased, the patient is unlikely to seek care elsewhere.

"People have begun to expect a response within the same day, often sooner, and are annoyed if they do not receive it" (Safran, Jones, Rind, Bush, Cytryn & Patel, 1996 p.148).

Expanding Implementation

With the completion and successful implementation of our Aim Statement, these interventions will lead to evaluation and improvement of the quality of messaging.

This next step is being examined by Cohort 8 and will lead to a formal messaging policy within UT Medicine; therefore, strengthening our patient-oriented culture.

How Will We Know that the Change is an Improvement?

UT Medicine Clinical Operations performs monthly messaging audits. The goal is to have 100% of the messages completed within 0-1 days. Here are the results of the last audit:

Clinic Name	# of Audits Completed	Messages completed within 0-1 days	Messages completed within 2-3 days	Messages completed in 3+ days	% Compliance with 24 hour TAT (0-1 days)
Med Specialty	12	8	2	2	67%
Neurology	9	9	0	0	100%
Primary Care	14	14	0	0	100%
OB/GYN	15	15	0	0	100%
Surgery/Plastics	8	7	0	1	88%
Cardiology	8	7	1	0	88%
Ortho	7	6	0	1	86%
Westover Hills	15	14	1	0	93%

To sum it all up . . .

"Messaging systems effect liability by shaping patient's perception of their physician" (Manglamurti, et al., 2010 p.3).

References

Levinson, W., Roter, D.L., Mullooly, J.P., Dull, V.T., & Frankel, R.M. (1997). Patient-physician communication: The relationship with malpractice claims among primary care physicians. *JAMA*; *277*, 553-559.

Mangalmurti, S., Murtagh, L., & Mello, M.M. (2010). Medical malpractice liability in the age of electronic health records. *New England Journal of Medicine*, *363*: 2060-2067.

Safran, C., Jones, P.C., Rind, D., Bush, B., Cytryn, K.A., & Patel, V.L. (1996). Electronic communication and collaboration in a health care practice. *Artificial Intelligence in Medicine*, *12*, 137-151.

