

Clinical Safety & Effectiveness Cohort # 10

Improving Response Time for Secure Health Messaging at the UHS Family Health Northwest Clinic

CENTER FOR PATIENT SAFETY & HEALTH POLICY UTHEALTH SCIENCE CENTER SAN ANTONIO Educating for Quality Improvement & Patient Safety

Making Cancer History



AIM STATEMENT

To Reduce Patient Communication Response Time (Secure Health Messaging - SHM)

by 50% by May 31, 2012

Secure Health Messaging

- Secure communication channel between patients and providers (Currently Telephone, Web Portal in future)
- Allows established patients to request and process referrals and prescriptions without physically coming to office

Helps reduce office visits

- Patient communication note is initiated in EMR by the telephone operator
- Note follows a "workflow" that may involve various stakeholders and touch points to satisfy patient request

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Rationale

- Patient Satisfaction
 - Timely completion of
 - Medication refills
 - Patient questions and concerns
- Decreased call volume
 - Repeat calls avoided
- Staff satisfaction
- Improved workflow with pharmacy
 - No more repeat faxes



The Team

Members

- Cynthia Carranco, RN, BSN, JD
- Monika Kapur, MD
- Camerino I. Salazar, MS
- Edward Aguilar
- Lisa Wammack
- Amruta Parekh
- Hope Nora/Leti Bresnahan
- NW Family Health Center Staff
- Quality and Outcomes Staff



Sponsoring Departments
Community Medicine
Associate
UHS Ambulatory Services



Northwest Family Health Center

- Front Desk/Phone Bank
- Nurses
- Providers





Project Milestones

Team Created	January 2012
 AIM statement created 	February 2012
 Weekly Team Meetings 	2/9/12 – 5/3/12
 Background Data, Brainstorm Sessions, 	2/9/12 – 2/29/12
Workflow and Fishbone Analyses	
 Interventions Implemented 	3/15/12 –Ongoing
Data Analysis	5/31/12-Ongoing
CS&E Presentation	6/15/2012

Our Approach



Current State Analysis Future State Rollout Model the Analyze the Identify how Coordinate current endcurrent people, with various stakeholders 2-end business processes business and to rollout process technology the new process -• Identify Non People, can be processes Value Add Processes, better • Establish Activities, Technology leveraged to bottlenecks protocol to optimize monitor and • Identify • Identify the stakeholders tweak the KPI's processes. , Activities, process (Benchmark **Touch Points** • Model the). Best new process Practices, Checklists

Iterative and Incremental



Current State

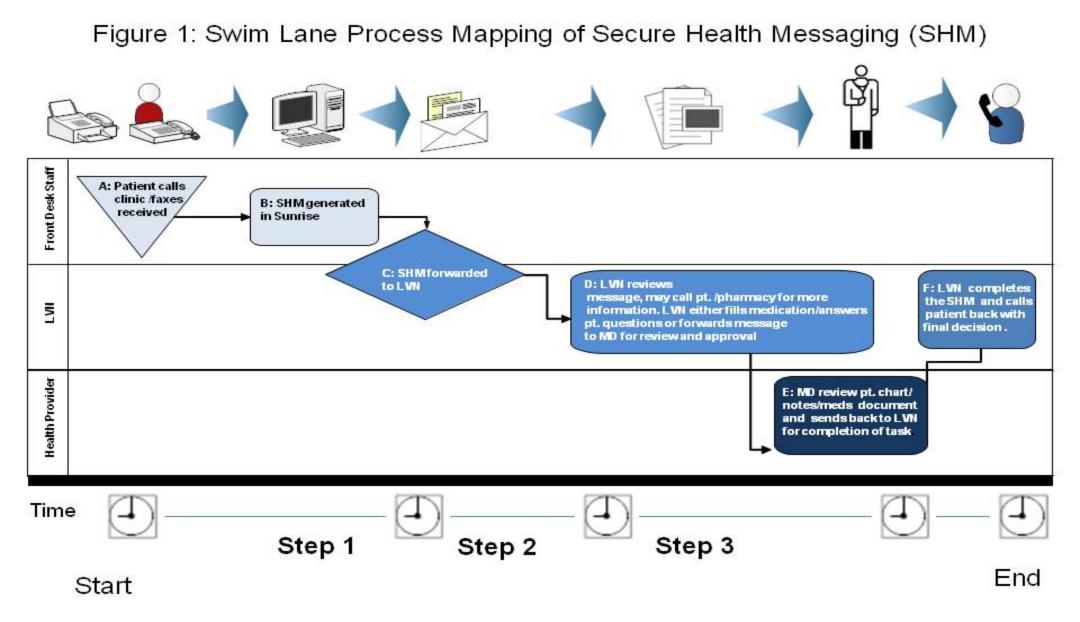
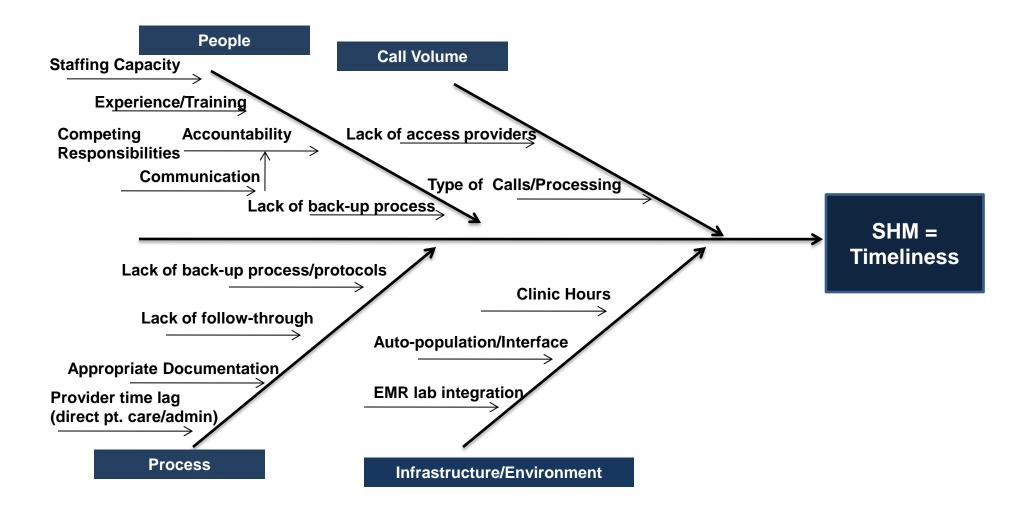
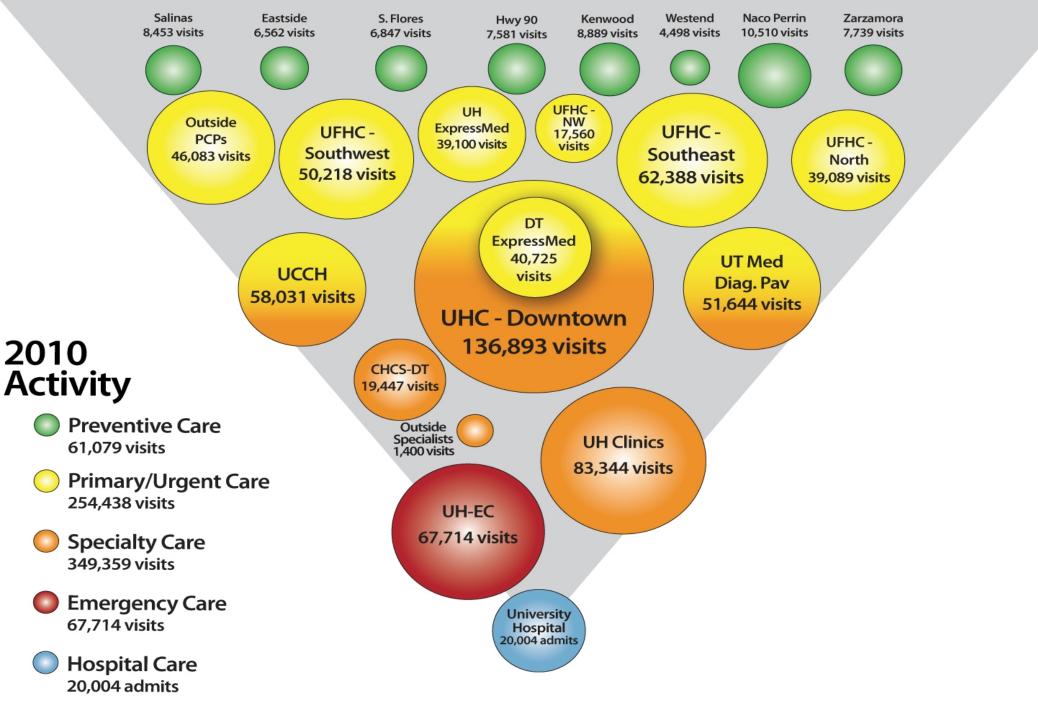


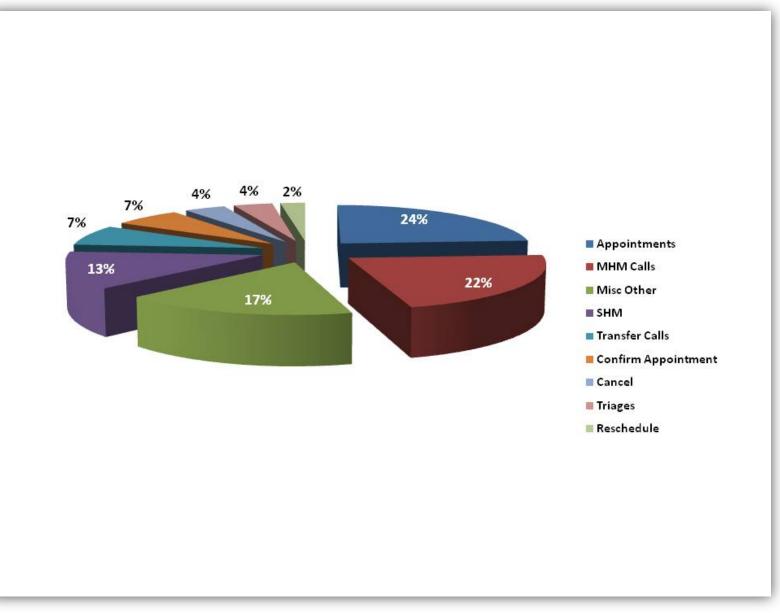
Figure 2: Fishbone diagram detailing potential causes for delay in secure health messaging process





Call Volume by Type at FHC-NW San antonio







Analysis



Key Findings

<u>People</u>

- Incorrect & incomplete data entry
- EMR Training
- Staffing

Processes

- Conformance of Protocols
- Lack of checklists, best practices consistency

<u>Technology</u>

- Missing Data
 - Date of last / next scheduled visit
- Auto population of data
- Integration with labcorp / quest



Future State



Process Improvement

- Our recommendations were centered around people and process that
 - Required minimal investment
 - Were under our control of influence
 - Information could be gathered, reviewed and reported within course timeframe

Intervention: PDSA 1

- Creation of checklist for front desk/phone bank/nurses
- Orientation of staff
- Observation and monitoring of staff



Intervention: PDSA 2 – Development of a front desk/phone bank checklist



- Phone Number
- Daytime



- Evening
 Date of Last Visit
- ≻ Clinic
- > Name of Clinical Provider



- Comprehensive Message
- Med Refills List Meds
- Referrals: Specialty/Any Specific Provider
- ▶ Results : Done, Where and When

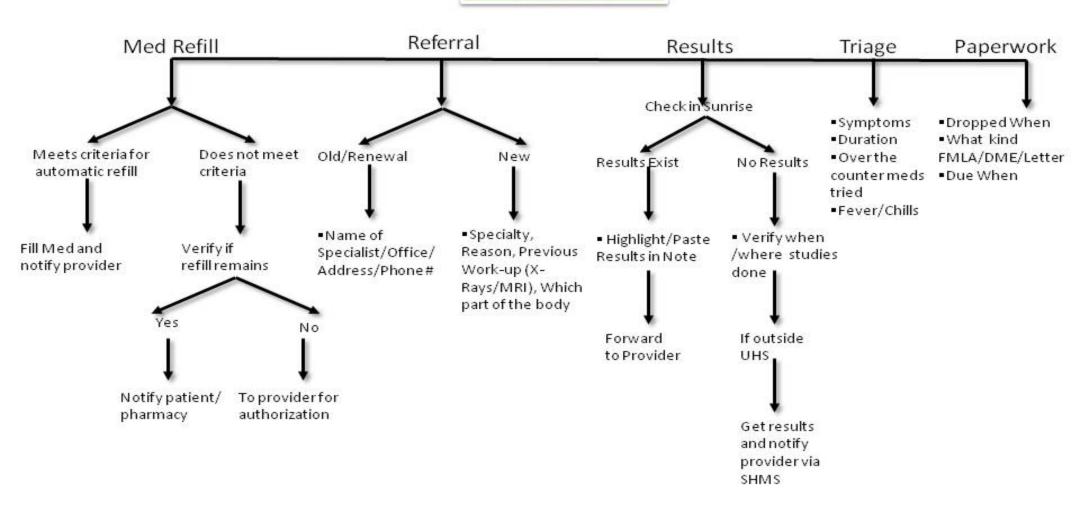


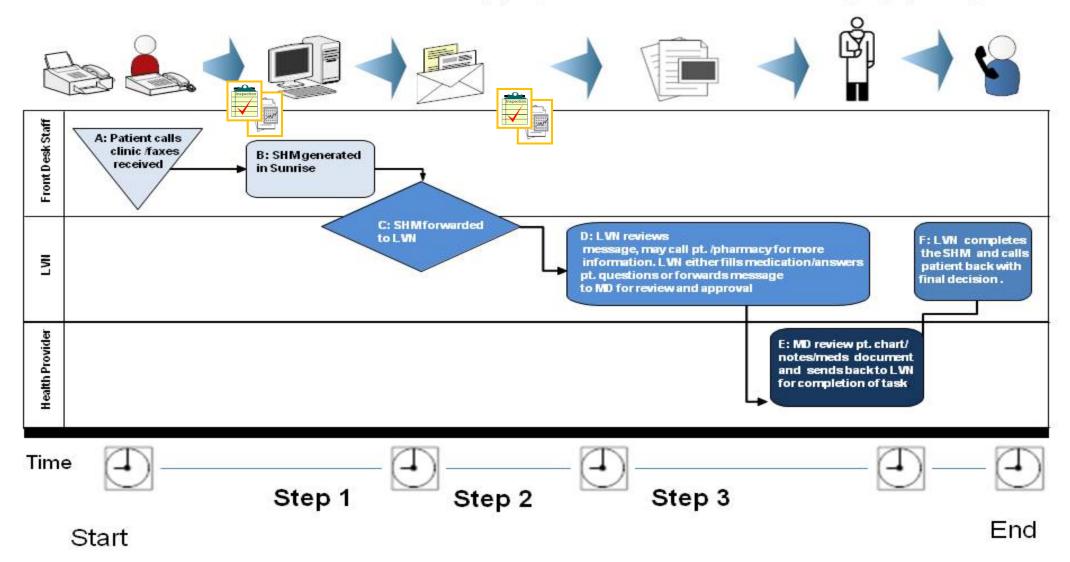
- ➢Paperwork: Dropped When Insurance
- ➤ CareLink or Other
- Enter correct pharmacy in Sunrise



Intervention: PDSA 3 – Development of a nursing checklist

Message Received





Swim Lane Process Mapping of Secure Health Messaging (SHM)

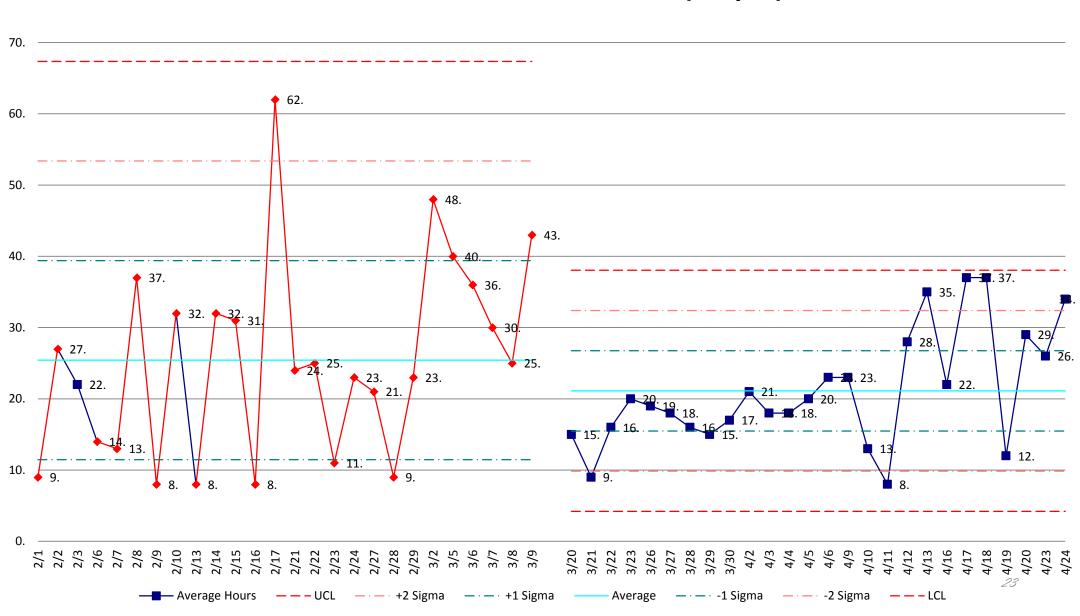
Data Analysis

- Specific targets for change will be the first three steps in secure health messaging
- Observed staff
- Statistical Process Control Charts to chart SHM response

Secure health messaging time before and after the process was

80.

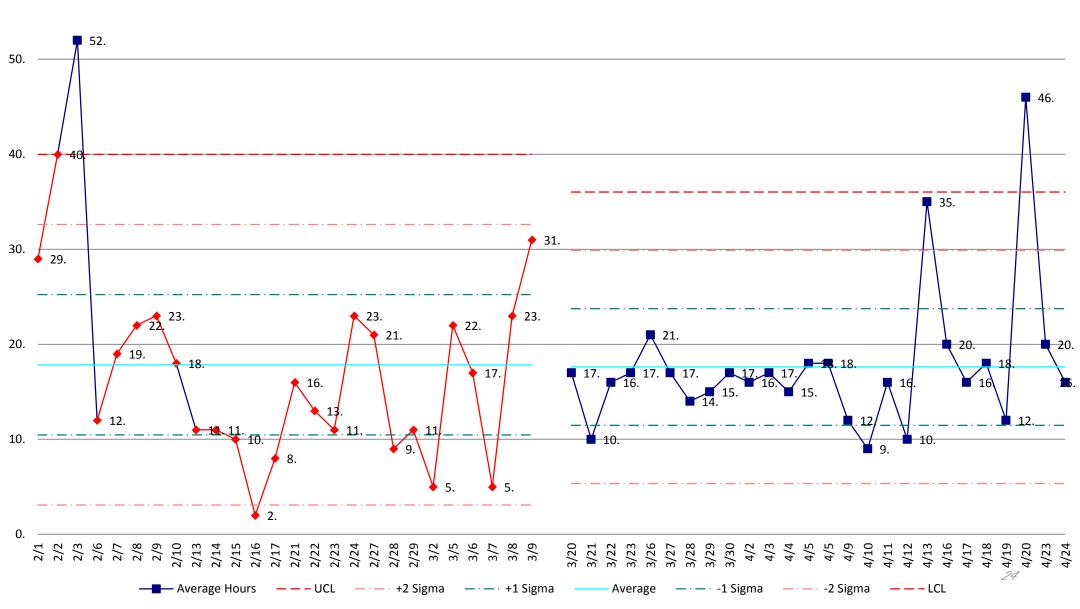
standardize: Front desk to LVN (Step 1)



Secure health messaging time before and after the process was

60.

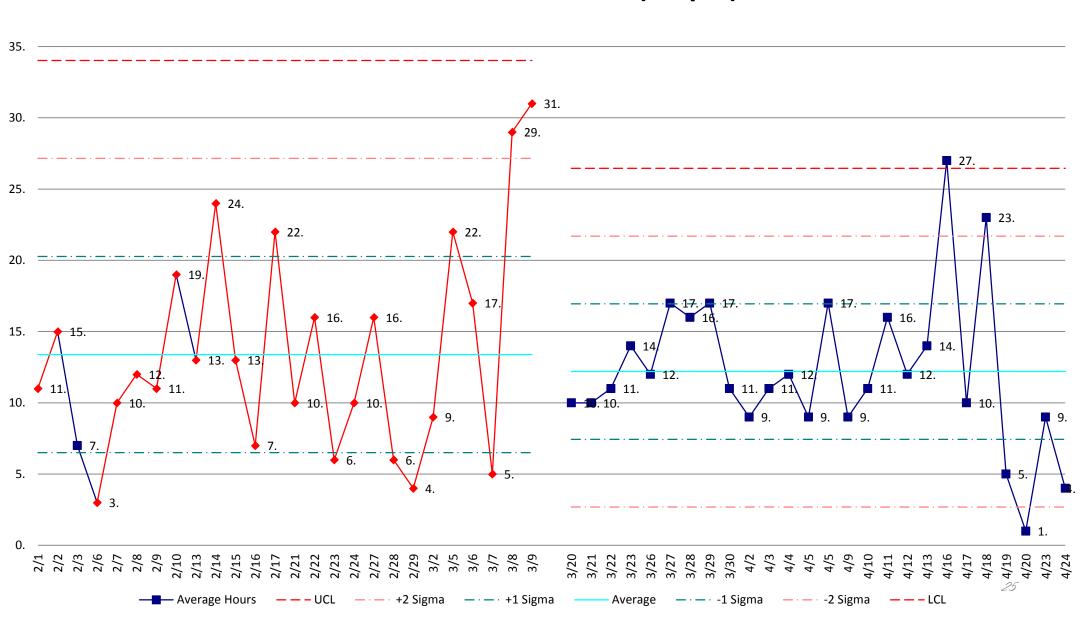
standardize: LVN to MD (Step 2)



Secure health messaging time before and after the process was

40.

standardize: MD to LVN (Step 3)



AIM Statement Goal-Final (14 Days)

- Q: Did the group meet our goal/ AIM statement?
- A: Well...somewhat!

SHMS Steps	Pre- Interven tion (Hours)	Post - Intervent ion (Hours)	Difference	% Difference
Step 1	25.42	17.50	-7.92	31%
Step 2	17.84	16.28	-1.56	8%
Step 3	13.38	12.57	-0.81	6%
Total	56.66	46.35	-10.31	18%



AIM Statement Goal-Final (Post- 26 Days)

SHMS Steps	Pre- Intervention (Hours)	Post - Interventio n (Hours)	Difference	% Difference
Step 1	25.42	21.11	-4.31	17%
Step 2	17.84	17.61	-0.23	1%
Step 3	13.38	12.19	-1.19	9%
Total	56.66	50.91	-5.75	10%



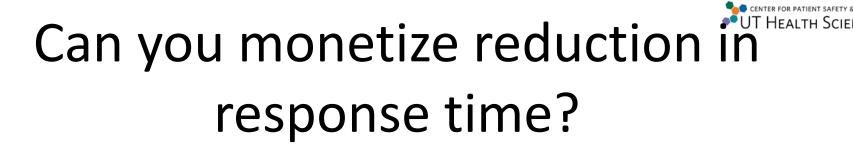
Statistical Process Data May 1st through 31st 2012

18% reduction in time in first 14 days

60.

7

- Went down to 10% in the next 14 days
- Worse than the baseline during the month of May



Yes you can...

Amount spent by clinic staff to address pt. complaints...

Assign \$ value to Customer Satisfaction



Lessons Learned

- Staffing Capacity
 - ► Lack of a floating pool
- Sustainability & Accountability
 - > Process redefinition is step 1.
 - Mindset and behavior change over time

Process improvement is an ongoing perpetual activity and not a one time event. Requires continuous feedback and monitoring



Next Steps

- Work in progress
- Processes are now in place (adjust as necessary and appropriate)
- > Expand to other health centers
- Share lessons learned and the importance of measurement and tracking performance



Final Conclusions

Did we achieve all the goals we had set for ourselves?

Partially

We have completed the 1st iteration.

Business Process Reengineering (BPR) is an iterative and incremental approach.

It requires mindset change and an open collaborative approach to problem solving.



Better has no limit...

-old Yiddish proverb

Thank you!



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