

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

**Clinical Safety & Effectiveness  
Cohort# 7**



Educating for Quality Improvement & Patient Safety



# DISCLOSURE

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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.

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

# The Team

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## 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

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# What We Are Trying to Accomplish?

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## 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.



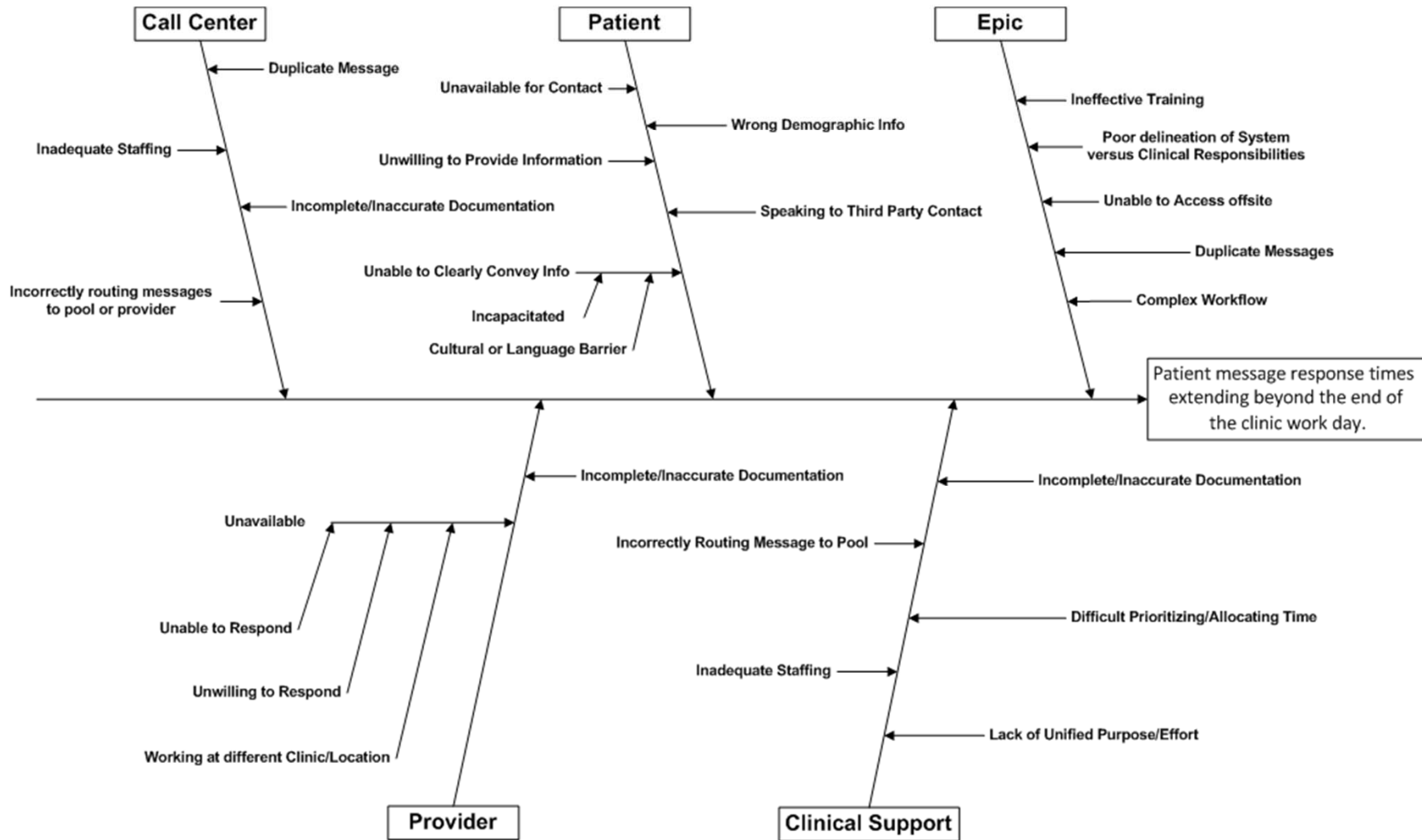
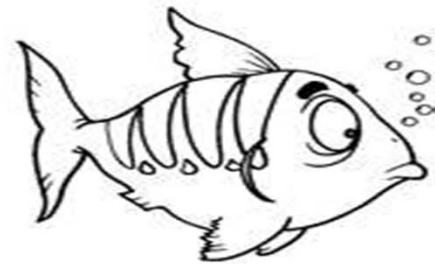
# Project Milestones

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Team Created	01/12/2011
AIM Statement Created	01/28/2011
Weekly Team Meetings	01/19/2011 - 06/24/2011
Background Data, Brainstorm Sessions, Work flow and Fishbone Analyses	01/28/2011 - 03/11/2011
Interventions Implemented	03/01/2011 – 06/01/11
Data Analysis	03/14/2011 – 06/17/11
CS&E Presentation	06/24/2011

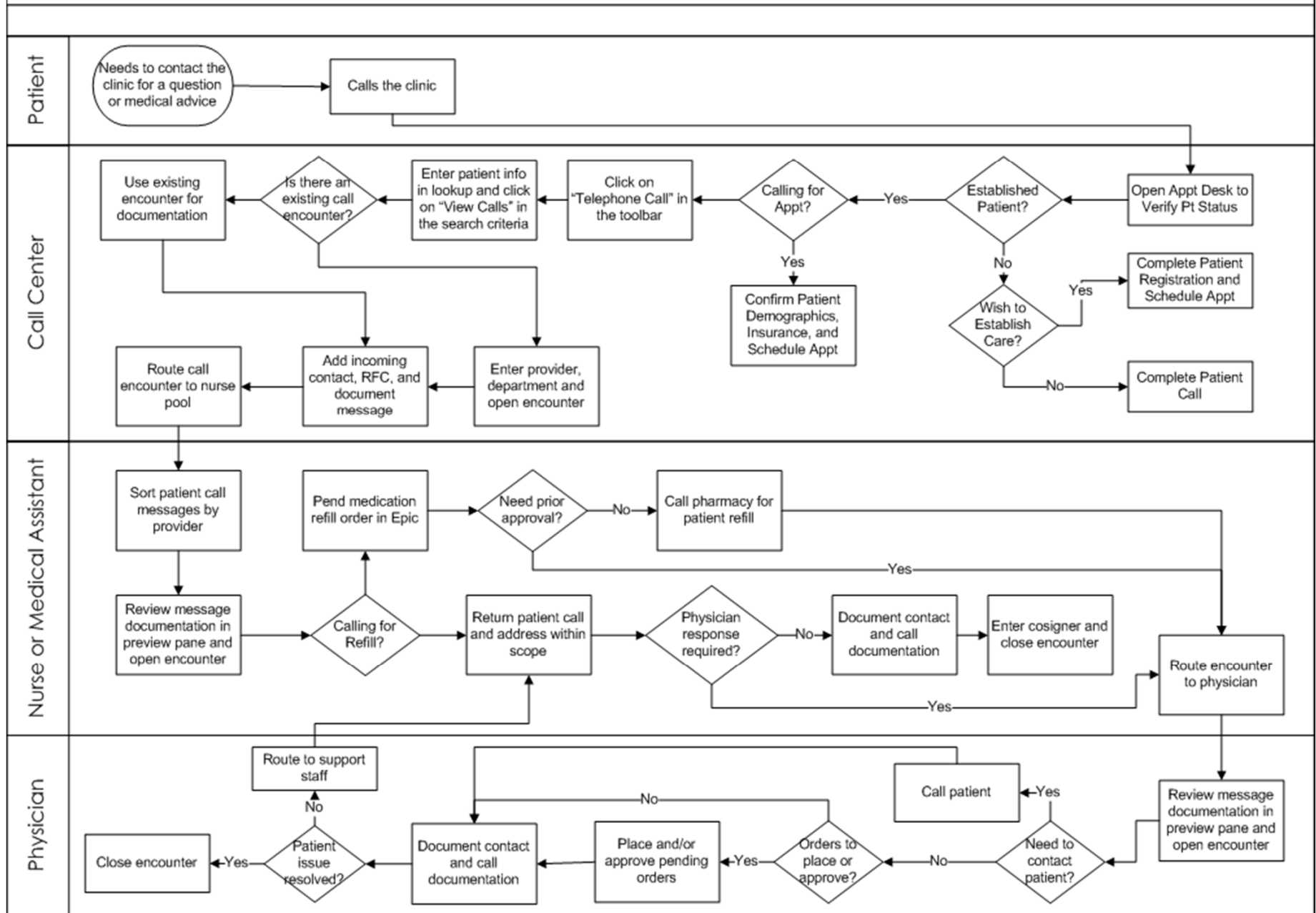
# Cause & Effect Diagram







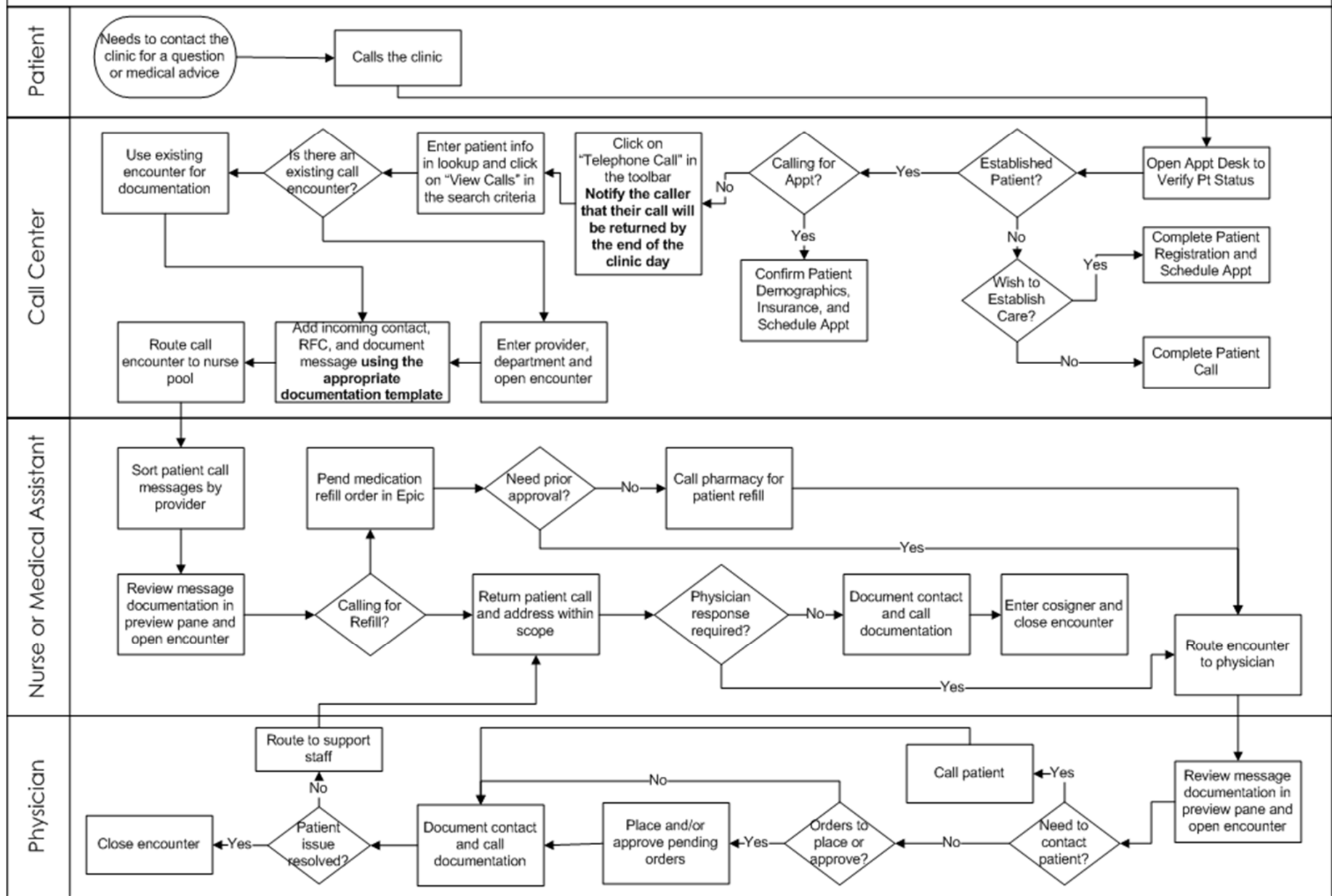
# UT Women's Health Center Patient Calls (Pre-Intervention)



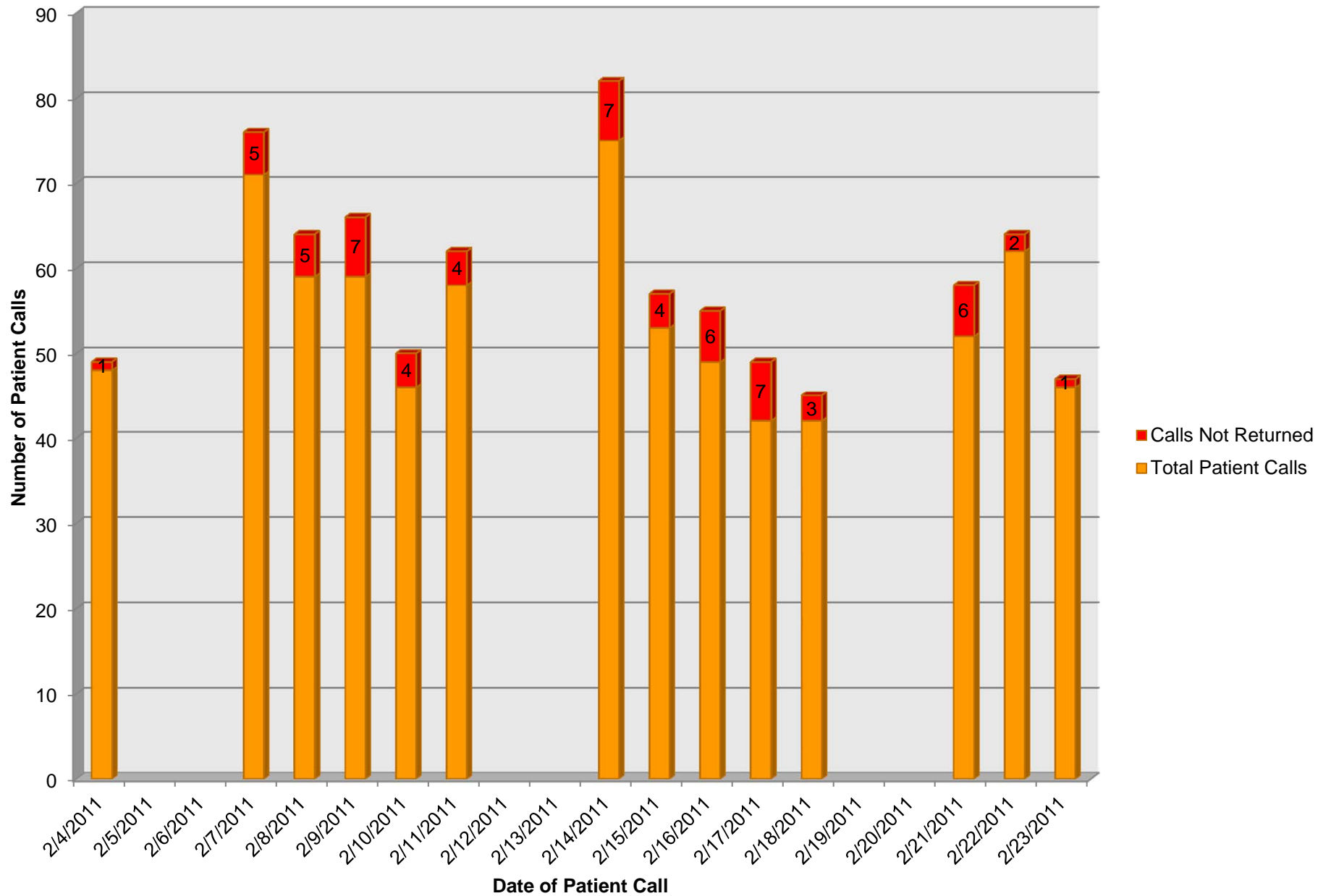




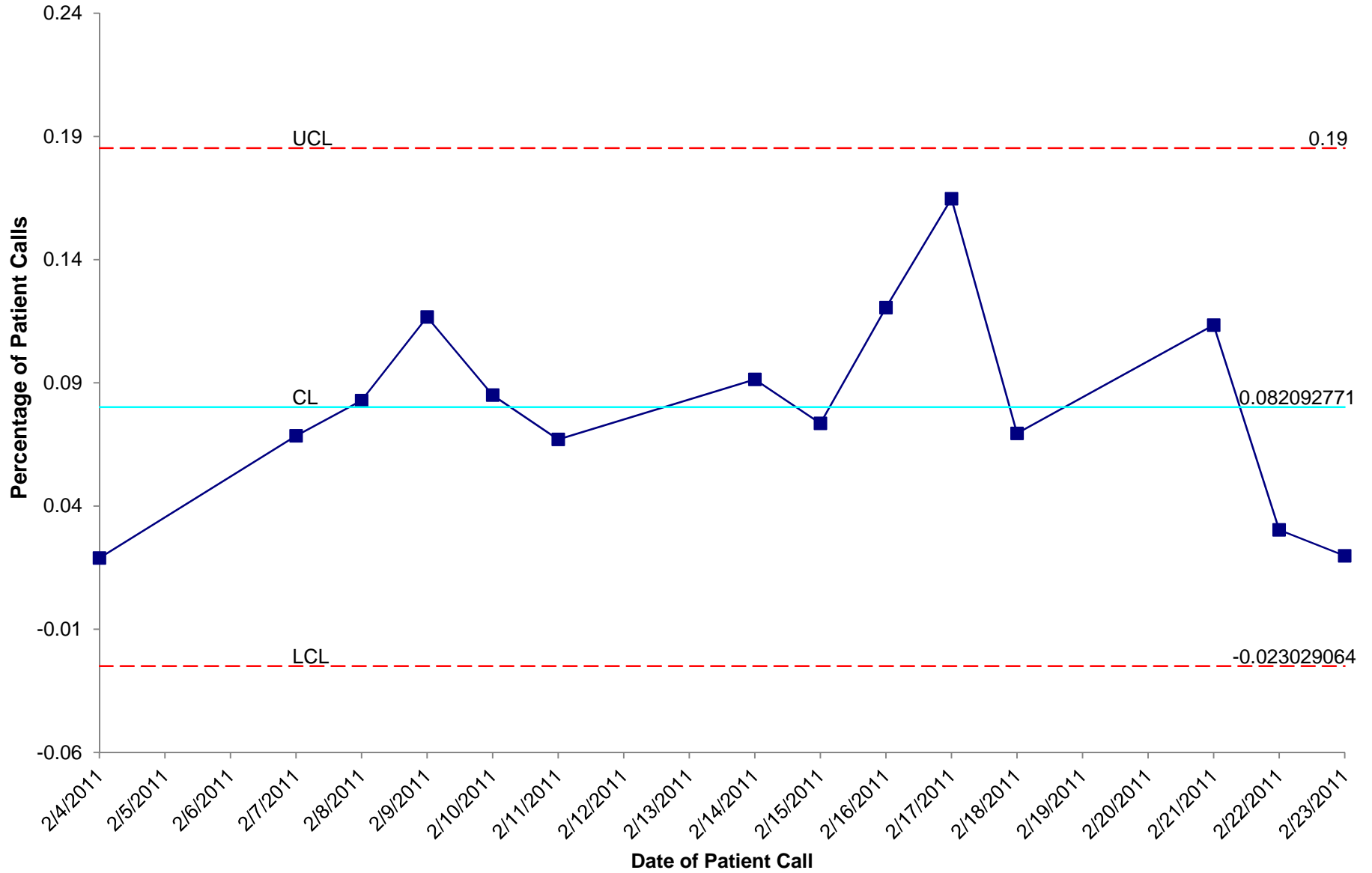
# UT Women's Health Center Patient Calls (Post-Intervention)



## 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

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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.

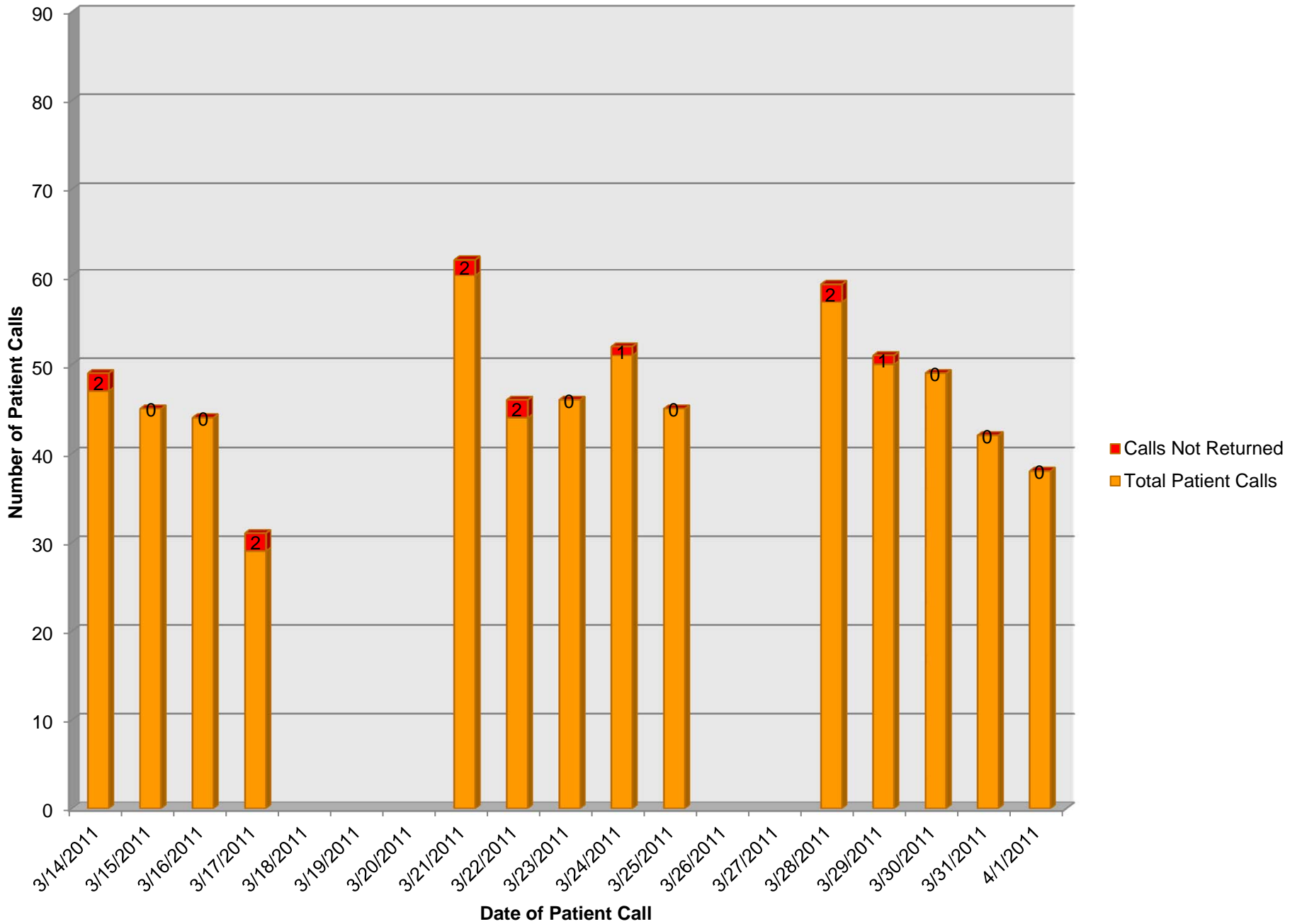
# Initial Interventions

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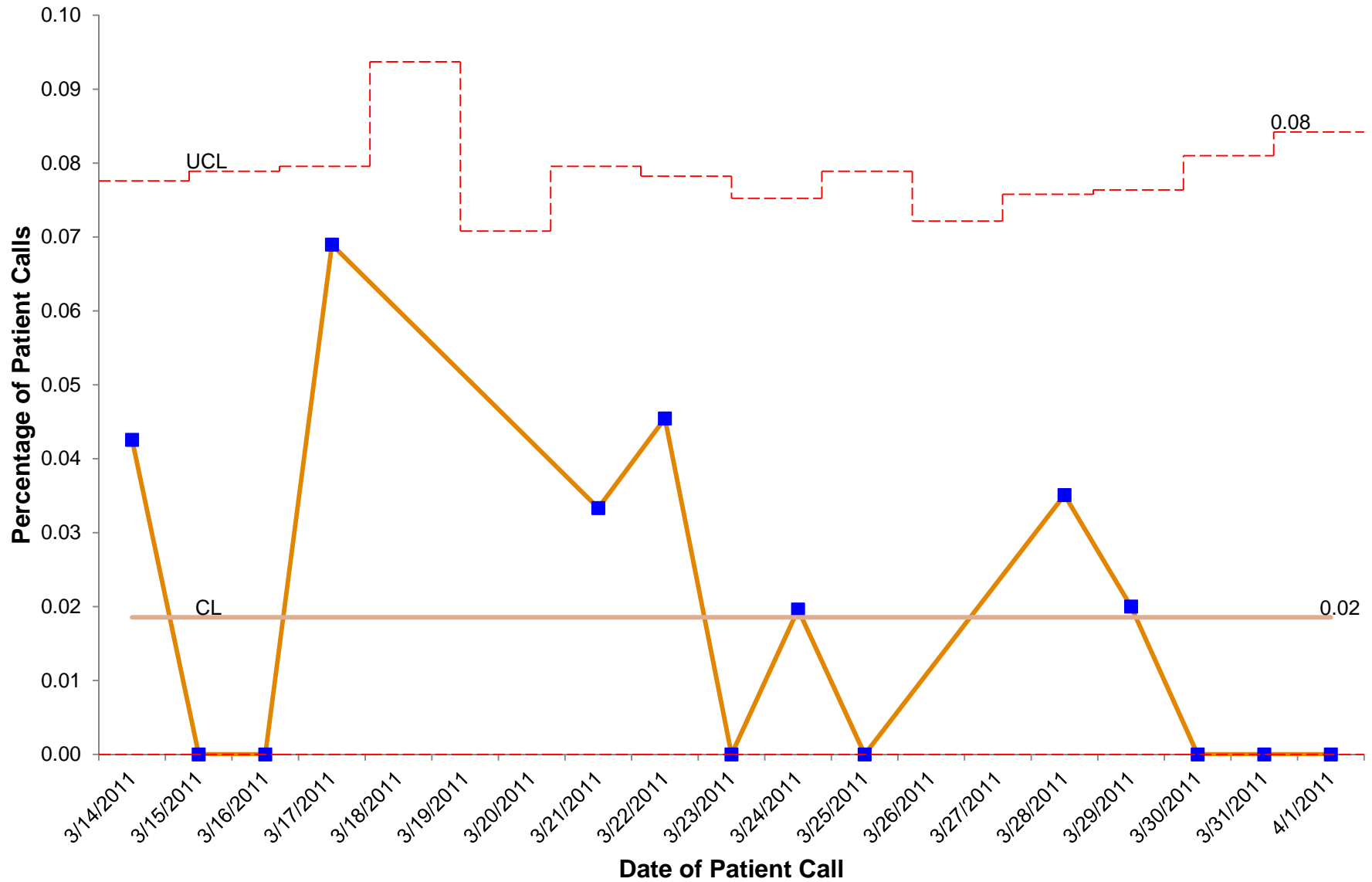


- Modified call center script to include a patient disclaimer ***“This message will be forwarded to your doctor and their MA. Due to clinic schedules, phone calls are returned at the end of the day”*** to set appropriate expectations.
- Prioritized clinical support staffs duties to ensure patient calls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

# Post-Intervention #1 - Raw Number of Total Calls Compared to Calls Not Returned

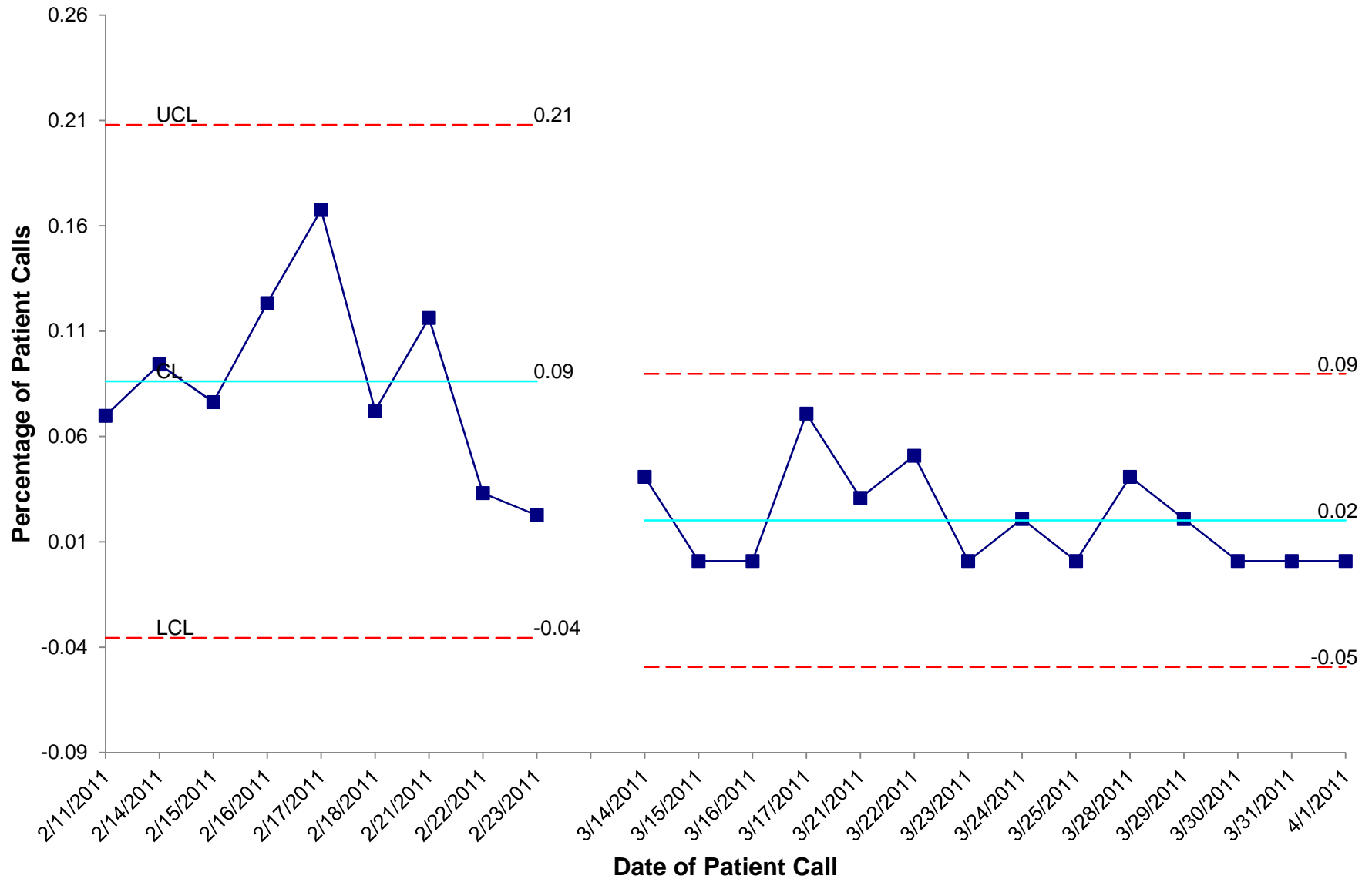


# Post Intervention #1 – Percentage of Patients Not Contacted by End of Clinic Day





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



# Secondary Intervention

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- ❑ 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

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## Pelvic/Abdominal Pain with Pregnancy

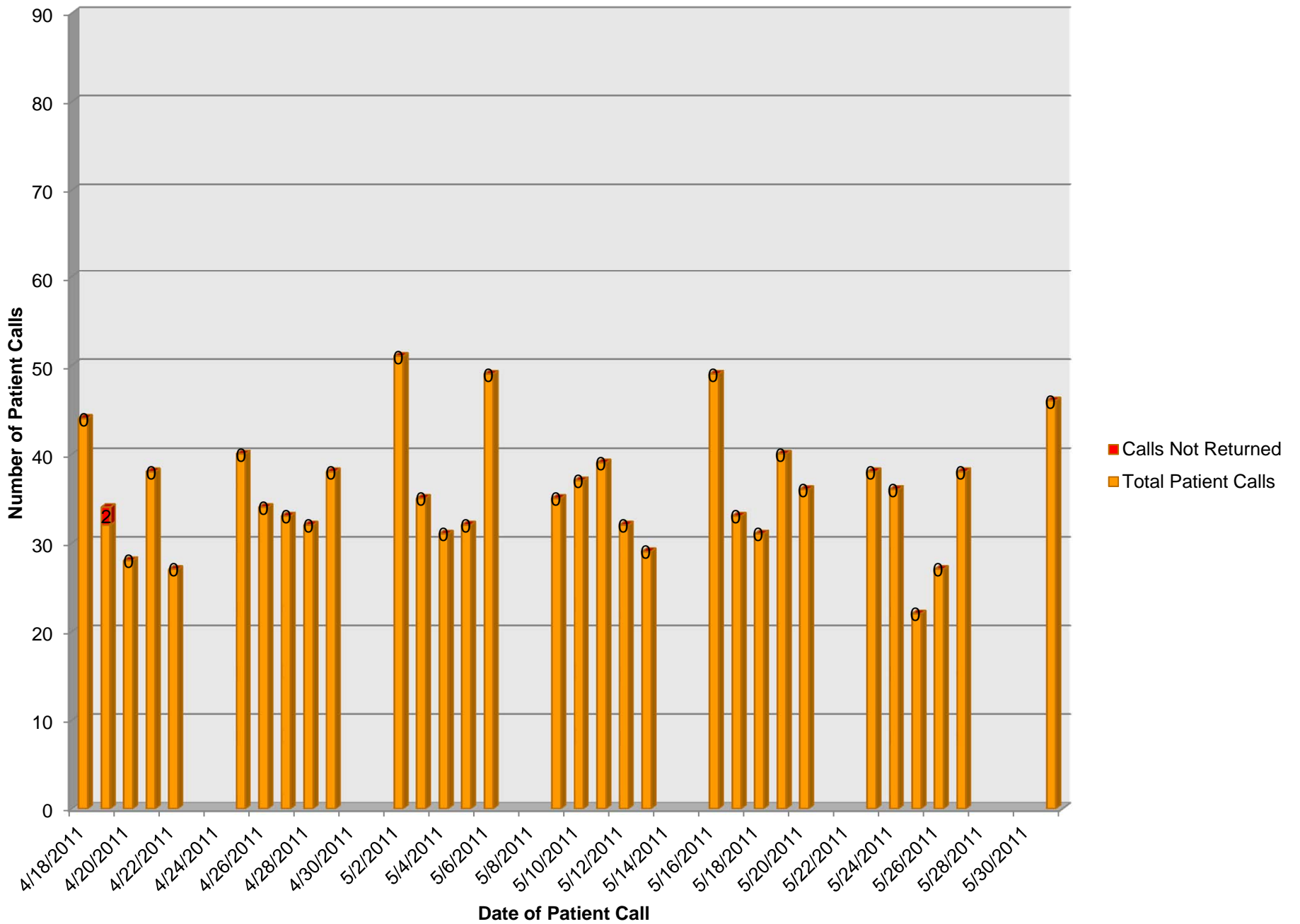
How long have you experienced this pain?

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

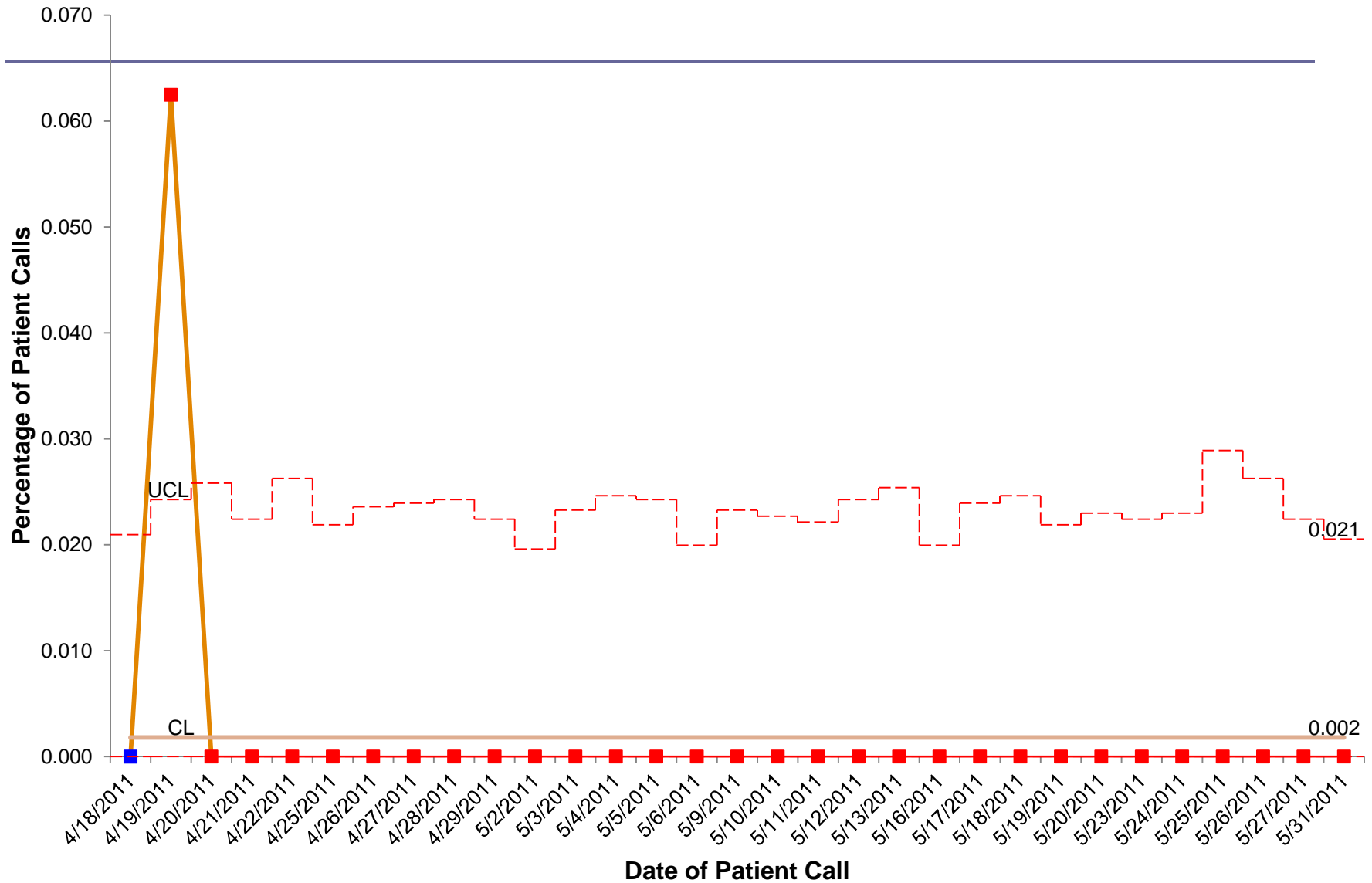
Are you experiencing pelvic pain confined to one location?

Have you experienced any fever, nausea or bowel changes?

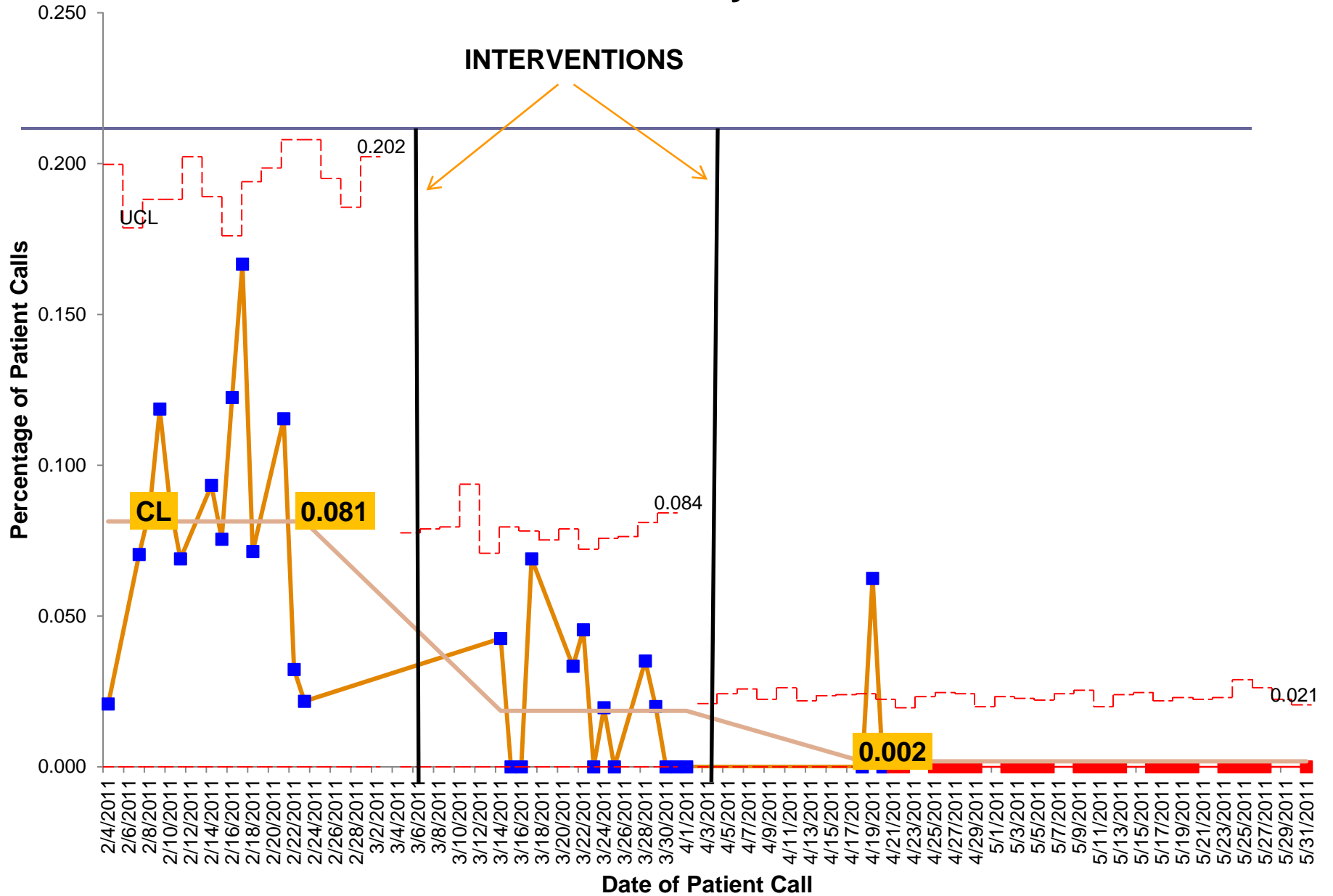
## Post-Intervention #2 - Raw Number of Total Calls Compared to Calls Not Returned



## 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

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- ❑ 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

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*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

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*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

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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%
<b>OB/GYN</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>100%</b>
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 . . .

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

# References

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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.

