

Clinical Safety & Effectiveness Cohort # 10

Improving the patient's cycle time at the Geriatric Evaluation and Management (GEM) Clinic at ALM-VA using a patient flow analysis.



SAN ANTONIO

Educating for Quality Improvement & Patient Safety

The Team

- Division-Geriatrics
- CS & E Participant Carol M. Espinal MD
- -Team Members

Monica Horton MD

Lisa Burns RN

Michael Hawkins- Clerk

- Facilitator

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- Sponsor: UTHSCSA/VA, S. Liliana Oakes, MD

What We Are Trying to Accomplish?

OUR AIM STATEMENT

Decrease the wait time for all the patients evaluated by a provider (Attending, Fellow, Nurse practitioner or Resident) at the Geriatric Evaluation & Management Clinic (GEM Clinic) by 25% over a period of 4 months.

Project Milestones

Team Created December 2011

AIM statement created January 2011

Weekly Team Meetings
December 2011-present

Background Data, Brainstorm Sessions, January-March 2012

Workflow and Fishbone Analyses

Interventions Implemented
Feb –March 2012

Data Analysis
March 2012- present

CS&E Presentation
June 15, 2012

Graduation Date
June 15, 2012

Background

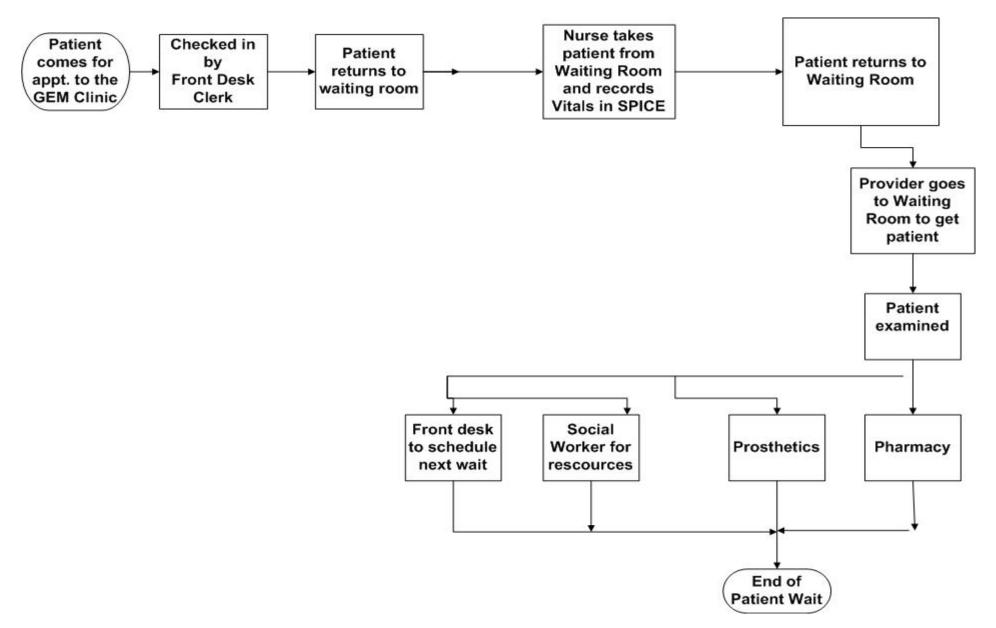


- The patients in the GEM VA clinic are the Geriatric population that have multiple medical problems including dementia and frailty. They should not need to wait for more then a hour for their scheduled appointment.
- It is well known that extended patient wait times for appointments is a very frequent complaint among the patients.

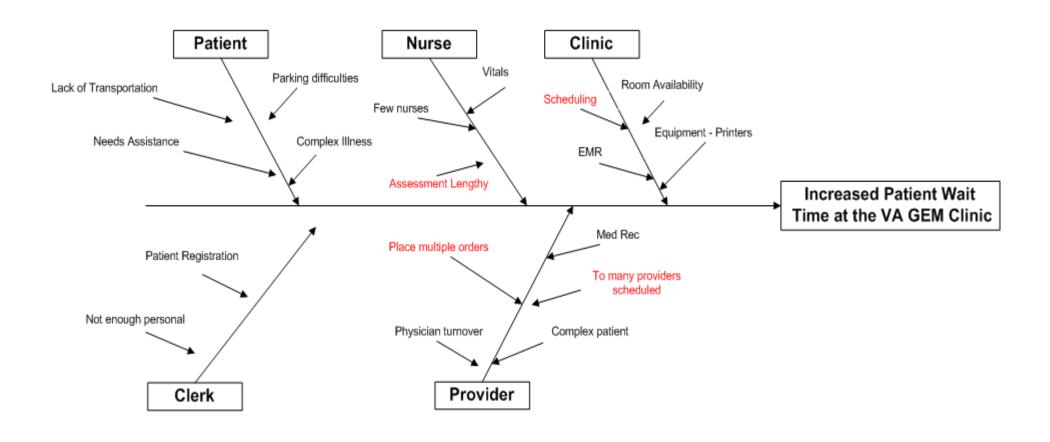
PLAN

- Collect Background Data
- Develop Cause & Effect Diagram for current Wait Time
- Develop flow maps and understand sources of variation in the current patient flow process.
- Assess baseline "time-to" at the various points in the patient flow process from when they arrive until they leave.
- Brainstorm how to improve the patient flow with Team members.
 - Specific targets for change-wait times due to scheduling issues and duplication of work

Flowchart



FISHBONE DIAGRAM

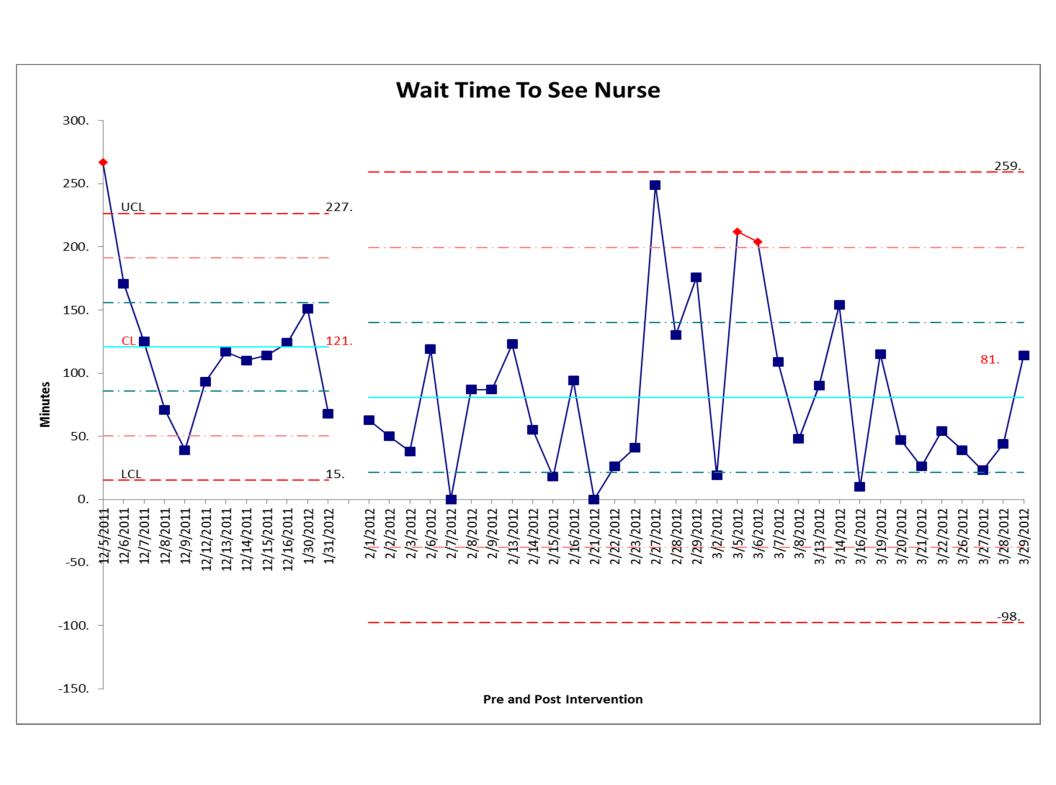


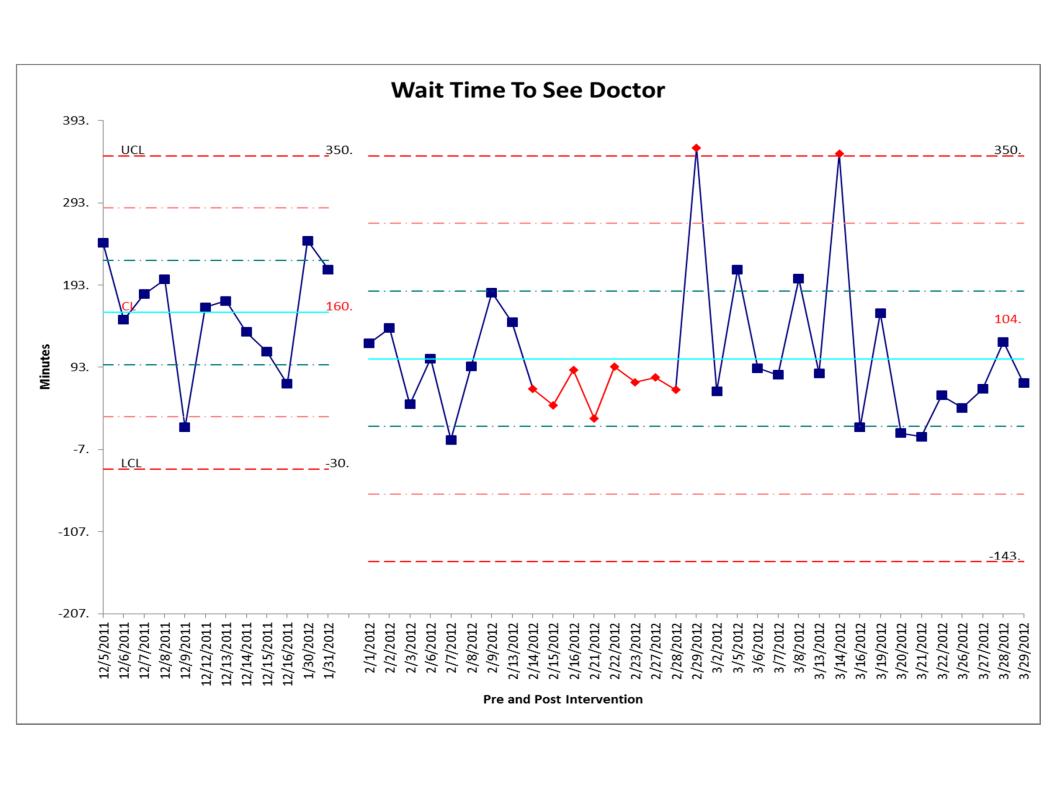
DO- Initial Interventions

- January 2012- changed Monday morning schedule for the GEM fellow clinic.
- February 2012-
 - changed hours for walk in clinic and
 - patients that checked in late only had vitals done, not the entire nurse questionnaire.
- March- decreased the number of providers scheduled per clinic session.

CHECK: Time To Measures

- Types of measures: Pre and Post Cycle time measures
- What will be measured: Notation of time when the patient arrives to clinic, registers with the clerk, is vitalized by the nurse, is seen by the provider and leaves the provider's office.





Results: Average "Time-To" See Nurse and Physician

Pre-Intervention

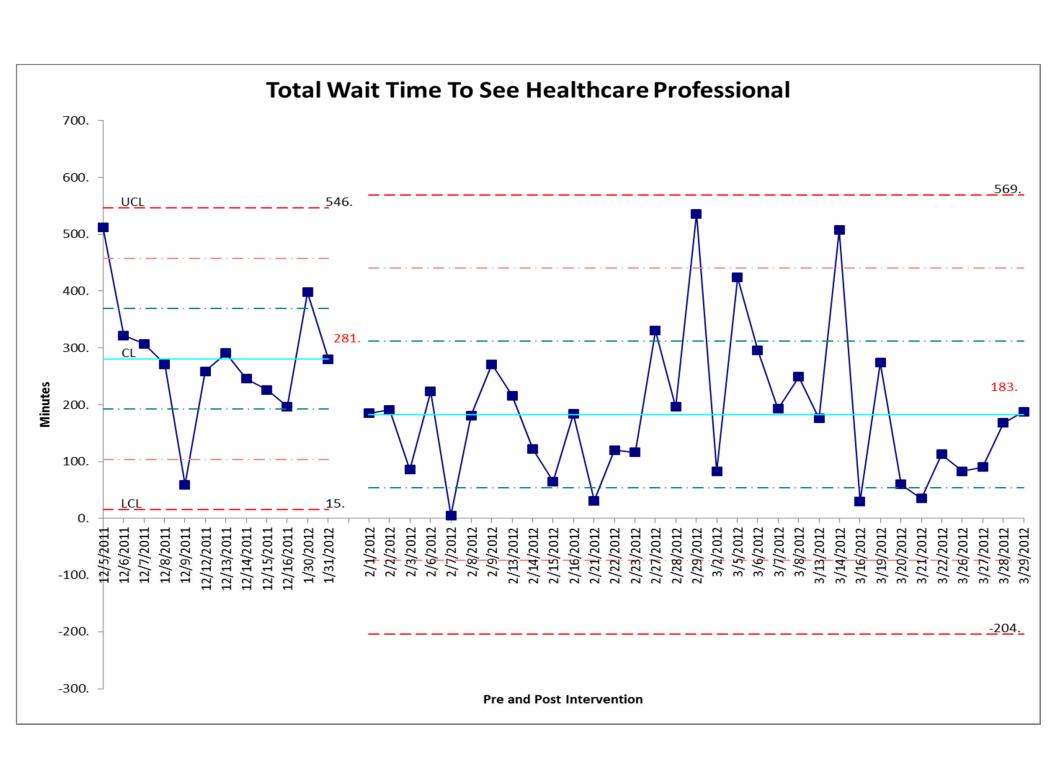
Nurse: Ave 121 minutes

Post-Intervention

Nurse: Ave 81 minutes –33 % improvement

Doctor: Ave 160 minutes

Doctor: Ave 104 minutes –29% improvement



Results: Total Wait Time to see Healthcare Professional

Pre-Intervention:

Ave of 281 minutes

Post-intervention:

Ave of 183 minutes –

Improvement of 35%

Results: Effect on Average "Time With"

- Pre-Intervention
 - With Clerk-4.38 min.
 - With Nurse- 9.59 min

- Post-Intervention
 - With Clerk-4.60 min
 - With Nurse-7.72 min

Return on Investment/ What's Next

- Improved patient satisfaction
- Efficiency in clinic internal work-flow
- Improved outpatient care avoids hospitalization and associated costs
- Because VA is training facility, this could aid in preparation for future trainees
- This project prepared me to understand and apply quality improvement to my medical practice