Improving Antenatal Care 1st Visit <20 Weeks Rate in a Primary Healthcare Clinic

C Parker¹, T Gaohose¹, T Puso¹, J Odayar¹, P Skosana-Banda², P Gough², L De Kock¹

1. The Aurum Institute 2. Ekurhuleni Municipality





Context

- **Dresser Clinic** is a Primary Health Care facility in Ekurhuleni South district.
- The initial QI project was to increase the rate of women less than 20 weeks gestation attending the clinic for their first antenatal visit.
- Early ANC first visits are associated with greater effectiveness of a PMTCT programme ¹
- The facility's initial aim was to improve antenatal first visits below 20 weeks from 38% to 60% by 30 July 2013.
- This aim was revised upwards following the successful attainment of 60% on this indicator. The current aim is to sustain performance at 80%.

1. Revised PMTCT Anti-retroviral Guidelines 2013. NDoH



Problem

The problem of late "1st visit" for pregnant women was investigated using a number of techniques to help the facility QI team to identify some of the root causes underlying this problem



Root Cause Analysis

Using a **process map** and a **cause and effect (fishbone)** diagram, the facility theorized that some of the root causes could be:

- poor health education on the importance of visiting the facility early on in pregnancy.
- women not attending early ANC visits because the clinic only saw ANC 1st visits on one day of the week.
- missing women who were already in the clinic and pregnant but were there only because they were not feeling well.



Root Cause Analysis

Intervention/Method

- A variety of changes were tested in an effort to address the hypothesized root causes.
 These included:
- Improving health education sessions
- Extending ANC services from one day to five days a week.
- Screening all women of childbearing age for last menstrual period.

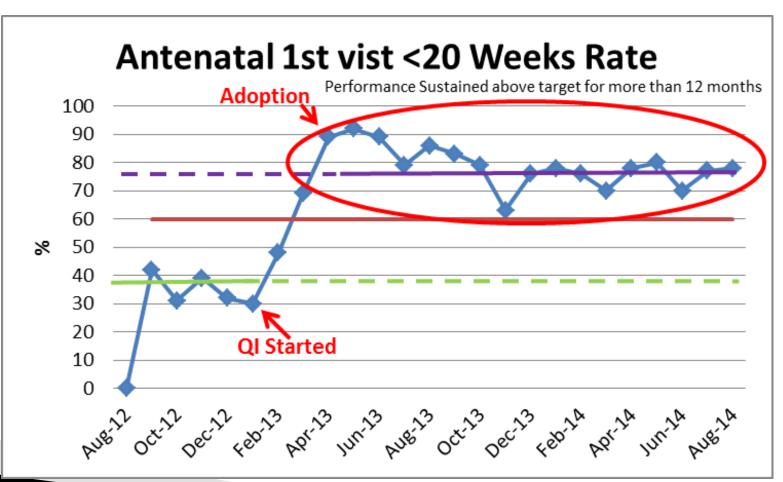


Results

- Antenatal 1st visit rate improved from 38% in January 2013 to a new median of 76% between March 2013 and July 2014.
- This improvement reflected special cause variation according to trend rules for run charts². In other words, there was a significant improvement linked to the change ideas which were implemented in the clinic.



Results





New Median



Target



Old Median



Source: DHIS

Interpretation of run-chart

- Interpretation of the run chart: The first change took place in January 2013, this was followed by an intensive phase of testing different change ideas. The testing phase came to an end in April 2013.
- The challenge became an issue of sustaining the improvements and building the change ideas to the standards operating system in the clinic.
- Sustaining change is often the hardest part of improvement. As may have been expected the system fell a little below its peak performance of April 2013 but the new median is significantly higher than the median before the changes were introduced. This is a signal that Dresser has managed to sustain their improvement.



Effects of changes

- Extending the booking hours provided pregnant women with more flexibility.
- Screening all women of child bearing age for pregnancy enabled the facility to identify pregnant women who at times had not themselves realized that they were pregnant.
- The true effects of change are observed when the change is sustained within a system, as is evident in the graph provided.



Conclusions

- Dresser Clinic has provided us with a fantastic example of how using QI methodology can improve a step in the PMTCT care pathway.
- This success can be used to motivate other facilities to take up the methodology in order to improve gaps they identify in their services.



Dresser Clinic Team Celebrating Success

