

Example 5, Immunization Registry: DO, STUDY & ACT phases

MODEL FOR IMPROVEMENT

Team Name: Pediatric Place

Plan a Test of Change

Cycle #: 1 Start Date: 1/10/13 End Date: 1/14/13

Objective for this PDSA Cycle (Aim):

By March 1, our practice will enter all vaccines into the statewide immunization registry
Within 7 days of vaccine administration.

PLAN:

QUESTIONS: Since we immunize children every day, can we get all of the vaccines we have administered entered into the immunization registry on a daily basis?

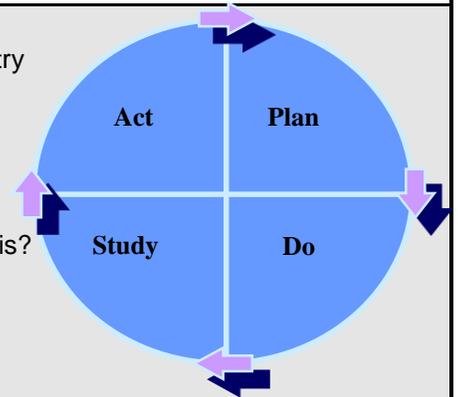
PREDICTIONS We should be able to get all (100%) of the Immunizations we give into the immunization registry within 3 days (!) of vaccine administration.

PLAN FOR CHANGE OR TEST: WHO, WHAT, WHEN, WHERE

Starting on Monday, for 3 days, Emma (LPN) who is a trained Registry user will be assigned to enter immunization records during the last hour of her work day. Charts of patients immunized will be given to Emma each day.

PLAN FOR COLLECTION OF DATA: WHO, WHAT, WHEN, WHERE

Emma will keep a log of the patients immunized on each of the three days (patient name and date immunized) and the date their vaccine information was entered into the registry. By Thursday, she will tally how long (# of days) between vaccination and data entry into the registry.



DO: CARRY OUT THE CHANGE OR TEST; COLLECT DATA AND BEGIN ANALYSIS. REPORT THE RESULTS OF YOUR TEST HERE. Describe observations, problems encountered, and special circumstances.

On Monday, 20 charts of the patients immunized were given to Emma. She entered 12 of them into the registry before leaving that day. Found that some were patients with no prior registry vaccination record (only birth record) so vaccine history needed to also be entered. Emma reported she was interrupted several times (answering phones and helping other staff members) because computer used is in reception/front office area. On Tuesday, Emma finished entering the remaining 8 charts from Monday and 4 of the 18 charts of patients immunized that day. Interruptions were still a problem. On Wednesday, Emma used a computer in the Manager's office to enter the remaining 14 charts from Tuesday and 6 of the 16 charts from that day. Emma reported no interruptions when doing data entry that day. A record for an adolescent (11 yrs.) with no prior immunization history in the Registry takes at least 5 minutes to enter. Also, found additional doses in the Registry for some of our patients that are not in our record, as well as some transcription errors in the registry (i.e., incorrect type of vaccine or incorrect date entered by another provider for a vaccine we administered).

STUDY: COMPLETE ANALYSIS OF DATA; SUMMARIZE WHAT WAS LEARNED

Vaccines administered by our practice can easily be entered in the registry within 2 days but it is a labor intensive activity. Need to take time to enter vaccine history if not already in registry so record is accurate and data can be used for reminder/recall. Need to train additional staff members as immunization registry users to help with data entry (Added to next month's practice meeting agenda).

ACT: ARE WE READY TO MAKE A CHANGE? Modifications or refinements to the test? PLAN FOR THE NEXT CYCLE

Emma suggested planning a test (Cycle #2) where she enters the vaccines administered into the registry for each patient when she gives the shots. There is a computer in the lab where she draws up vaccine. This will be tested for patients seen next Monday, for 1 day. Will still need to enter vaccine histories for those patient registry records needing those updates.

Consider doing another PDSA, with Aim of giving patient/family a current immunization record printed from the Registry before they leave the office.

