**![C:\Documents and Settings\michelles\Local Settings\Temporary Internet Files\Content.IE5\A27SOOCD\MC900441976[1].wmf]()ACT** **PLAN**

**STUDY** **DO** MODEL FOR IMPROVEMENT Cycle # 1 Date April 16, 2013

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***Change or Idea evaluated****:* Car Safety Seat Education Program

***Objective for this PDSA Cycle****:* The Community Health Department Car Safety Seat Program will increase the percentage of Tribal Members who properly use distributed Child Passenger Safety Seats by 10%.

***What question(s) do we want to answer with this PDSA?*** Are Tribal Members using distributed Child Passenger Safety Seats properly? If not, what changes can we make to the program to increase proper use of the seats?

***Plan:***

***Plan to answer questions*** *(test the change or evaluate the idea) What, Who, When, Where*

1. Determine number of Child Passenger Safety Seats distributed to FCP Tribal Members between 2012 and 2013 =75
2. Conduct random observational surveys for proper use of the Child Passenger Safety Seats (need to observe 23 families for quality data of 30%)
3. Compile and analyze data obtained during observational surveys
4. Determine change to be made to the program
5. Conduct second round of random observational surveys for proper use of the Child Passenger Safety Seats
6. Re-evaluate data to determine if change made *was successful in increasing the proper use of the Child Passenger Safety Seats by 10%*

***Plan for collection of data*** *needed to answer questions: What, Who, When, Where*

The Car Safety Seat Technicians will conduct observational surveys during Infant Nutrition and WIC days at the Health and Wellness Center during the month of April, 2013 to assess for proper use of Child Passenger Safety Seats.

***Predictions*** *(For each question listed above, what will happen when plan is carried out? Discuss theories):*

We are predicting to find many of the seats that have been distributed are not being properly used.

Changes made to the program will increase the proper use of the Child Passenger Safety Seats by 10%

***Do:***

*Carry out the plan; document problems and unexpected observations; collect data and begin analysis.*

Observational surveys were conducted in the parking lot at the HWC during INP/WIC day. Preliminary data showed the majority of the families that brought their infant/toddler to their appointment did not have the child properly restrained in their car safety seat. Unexpected observations were families that had children in the vehicle with no form of restraint.

**Study:**



*Complete analysis of data; what were the answers to the questions in the plan (compare to predictions) Summarize what was learned.*

75 Child Passenger Safety Seats were distributed – this is our baseline data. We would need to observe 23 of the families that have received seats through our program in order to have quality data (30%). We were able to observe ­­­­23 families during our initial week of observations. Of the 23 observations made, 16 (70%) were not restrained properly.

Reasons for not properly restraining the child were:



* **Personal Choice (9)**
* Difficult (3)
* Other (3)
* Forgot Seat (2)
* Forgot How to Use (1)
* Unaware (1)
* Forgot How (1)

*Note: Some families did give multiple reasons for not using the seat properly. The Car Safety Seat Technicians provided education regarding proper restraints*.

**Act:**

*What changes are to be made? Plan for the next cycle.*

Changes will be made to the education portion of the Child Passenger Safety Seat distribution. Instead of showing the video in its entirety it will be broken down into sections based on the seat that is being given that day. Also, video clips of accidents using the crash test dummies will be included in the education. Hopefully by using the above approach families will be better informed of what may happen if their child is not properly restrained in a Child Passenger Safety Seat during an accident and will be more inclined to use the seat properly.

A Car Seat Safety event was held on May 21, 2013. Thirty- three tribal members participated in the event. Educational tactics included:

* Demonstrations on Proper Car Seat Usage
* Car Seat Height Bar
* Crash Test Dummy Videos
* Mock Accident Demonstrations (what can happen to a child in an accident if they are not properly restrained in a car seat )

These education strategies appeared to be successful and will be implemented in the Car Safety Seat Program.

The Car Safety Seat Technicians conducted a second round of observational during the months of June, July and August.

These surveys were completed with the same individuals from the first series of observations. There was a 65% increase in the number of clients that used a car safety seat correctly, which was an indicator that the change that we tested was effective. Because of the significant increase in proper car safety seat use, the Community Health Department has adopted this change and it will continue to be implemented in the program.

Car Safety Seat Technicians will continue to conduct quarterly observational surveys to ensure that the education that they are providing to clients is maintaining its effectiveness. If proper usage rates decrease additional QI studies will be implemented.