IHS Division of Oral Health



Dental Depression Screening Demonstration Project <u>Final Report</u>

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Conceptual Design, Project Duration, Purpose

In December 2009 the U.S. Preventive Services Task Force (USPSTF) released recommendations on screening adults for depression in primary care settings, with a "B" recommendation (moderate certainty that the net benefit is moderate to substantial) for screenings when staff-assisted depression care supports are in place, and a "C" recommendation (selective offering) when such there are no care supports on site or in place.

https://www.uspreventiveservicestaskforce.org/Page/Document/UpdateSummaryFinal/depression-in-adults-screening.

Subsequently, on January 28, 2016, a project was developed to help promote depression screenings in IHS, Tribal, and IHS-funded urban dental programs. On August 19, 2016, the Division of Oral Health reached out to the IHS Division of Behavioral Health to collaborate on the project. With support from them and the Improving Patient Care Initiative team at IHS Headquarters, the project began on October 1, 2016 and ended on March 31, 2017, a six-month duration. The purpose of the project was to identify best practices related to using the Patient Health Questionnaire (PHQ) – 2 Depression Screening Tool in a dental setting (Attachment 1).

Participating Sites

On September 9, 2016, a solicitation e-mail was sent to IHS Area Dental Officers to identify sites within their Areas which might want to participate in the demonstration project. These sites, all of which were invited to participate, were:

Clinic Name	IHS/Tribal	Location	IHS Area
Bad River	Tribal	Ashland, Wisconsin	Bemidji
Consolidated Tribal Health Project	Tribal	Calpella, California	California
Crow Service Unit	IHS	Crow Agency, Montana	Billings
Crownpoint Service Unit	IHS	Crownpoint, New Mexico	Navajo
Fort Belknap	IHS	Ft. Belknap, Montana	Billings
Keams Canyon Service Unit	IHS	Polacca, Arizona	Phoenix
Ketchikan Indian Corporation	Tribal	Ketchikan, Alaska	Alaska
Rosebud Service Unit	IHS	Rosebud, South Dakota	Great Plains
St. Regis Mohawk Clinic	Tribal	Akwesasne, New York	Nashville
Taos-Picuris Service Unit	IHS	Taos, New Mexico	Albuquerque
Western Oregon Service Unit	IHS	Salem, Oregon (Chemawa)	Portland
Wewoka	IHS	Wewoka, Oklahoma	Oklahoma City
White Earth Health Center	IHS	White Earth, Minnesota	Bemidji

Due to significant staff changes, including the loss of the dental chief, Crownpoint Service Unit dropped out of the demonstration project after one month.

Structure/Format

The demonstration project kicked off with a webinar entitled "Depression Screening in Dentistry," presented by Dr. Gabriel Longhi from the Albuquerque Area Indian Health Service. This presentation, which laid the foundation for why depression screenings are important, was well attended, with 76 different telephone participants, 94 participants who registered in the IHS Continuing Dental Education (CDE) course, and 89 participants who received CDE course credit. Since many dental staff, especially dental assistants, do not seek CDE credits through webinars, we estimate that the total attendance of this webinar was approximately 150 dental staff from I/T/U programs. The recording can be accessed at https://ihs.adobeconnect.com/p2nrm8uxgea/.

Four webinars were planned and executed for the 13 (later 12) I/T/U pilot project sites. These included webinars on November 30, 2016; January 25, 2017; February 22, 2017; and March 22, 2017. CDE credits were offered to participants of each of these webinars, with a total of 47.5 participant CDE hours awarded as a result. With each of the webinars, participants were asked to report on their progress in implementing the PHQ-2 depression screenings in their programs using IPC-recommendation tools to document successes, failures, and lessons learned (the Plan-Do-Study-Act form).

Recordings can be accessed on Adobe Connect as follows:

- November 30, 2016 https://ihs.adobeconnect.com/p1l4otyitob/;
- January 25, 2017 https://ihs.adobeconnect.com/p28ixkwq098/;
- February 22, 2017 https://ihs.adobeconnect.com/p3pp3234681/; and
- March 22, 2017 https://ihs.adobeconnect.com/p79b169dbvx.

Baseline Data

At the onset of the project, each site was asked to complete a baseline survey. Of the 13 initial programs, two reported that they currently used the PHQ-2 to conduct depression screenings, two reported that they used some other type of depression screening tool, two reported that they had tried but had given up doing depression screenings, and seven programs reported that they had never conducted depression screenings in their dental clinics. Regarding potential referrals for positive screenings, eight programs that they had an existing referral program in place for any behavioral health issues to a behavioral health provider, while three programs stated that they referred patients with behavioral health issues to a primary care provider (physician) rather than to a behavioral health provider.

The baseline survey also looked at the number of patients served or referred by the pilot project sites. Excluding Crownpoint, which later dropped out of the project, the 12 project sites served a total of 28,271 dental patients out of a user population of 71,427, with 16,224 of those patients 12 years of age or older (the recommended age for screenings). For Fiscal Year 2016, the pilot project sites reported a total of 1,064 depression screenings in dental and 46 total referrals.

Results

On the last webinar, eight of the 12 programs reported out to the group.

Clinic Name	# of Sites	%			
What type of PHQ-2 is being used now by your program?					
• Scored (0-3)	8	100			
Unscored	0	0			
What method of screening are you currently using?					
42-1 (IHS Dental Patient Medical History Form)	5	62.5			
Separate form	3	37.5			
Who is doing dental depression screening in your clinic?					
Dentist only	2	25.0			
Dental hygienist only	0	0.0			
Dental assistant only	1	12.5			
Dental receptionist only	1	12.5			
All dental staff	4	50.0			
Who is being screened?					
Adults only	1	12.5			
Adolescents only	0	0.0			
Adults & adolescents	7	87.5			
What % is screened? Average of responding programs					
 Previous six months (1/2 of annual results) 	-	6.6%			
6 months of the project	-	89.6%			
Who are you referring to?					
Behavioral Health	6	75.0			
Primary Care	1	12.5			
Both	1	12.5			
How many referrals for depression have you made?					
 Previous year (1/2 of annual results) 	23	-			
6 months of the project	111	-			
After completing this project, do you see value in continuing dep	pression screenings?				
• Yes	8	100.0			
• No	0	0.0			

For the demonstration project, a scored and unscored version of the PHQ-2 was developed for adults and adolescents, both as a stand-alone form and as part of the IHS Form 42-1, Page 2, IHS Dental Patient Medical History Form. Versions of these documents can be found in Attachments 2-4 at the end of this report. The majority of participating programs utilized the modified 42-1 form since this form is used at least annually to update patients' medical histories. However, two programs used a form developed by their Area to record all GPRA-related screenings (Attachment

5), and one program utilized a peel-off label that could be affixed to the patient's progress note or referral notice.

Depression screenings were conducted by all dental staff, with two programs noting that only the dentist performed the screenings while four programs said that all staff had performed the screenings. All but one program screened both adolescents (12 and older) and adults, with a substantial improvement in "institutionalizing" screenings into the dental program, going from 6.6% of patients screened for depression to a cumulative average of almost 90% in the span of six months. Referrals also increased significantly as a result, from 46 referrals in the previous year to 111 referrals in the six months of the project, a 382% increase (Figures 1 & 2). All of the participating sites stated that they saw value in the depression screenings conducted in the dental program.

Figure 1. Results of 6-month IHS Dental Depression Screening Demonstration Project: Number of Patients Screened

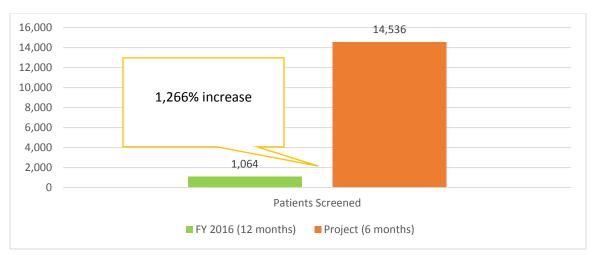
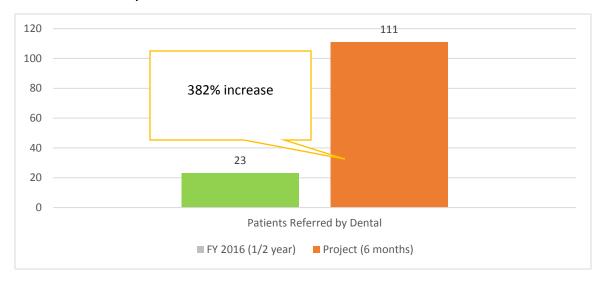


Figure 2. Results of 6-month IHS Dental Depression Screening Demonstration Project: Number of Patients Referred for Follow-Up Care



Barriers/Problems Encountered

Since this demonstration project was meant to lead to promoting depression screening in dental programs as a best practice, we asked the participating programs to identify barriers and problems throughout the six-month project. Three issues seemed to be mentioned throughout the project: (1) buy-in from dental staff and dental patients; (2) communication between the dental program and behavioral health program; and (3) documentation and coding of depression screenings conducted in dental in order to track progress.

For some programs that may have not conducted other "non-dental" screenings in the past (alcohol/substance abuse, domestic/intimate partner violence, etc.), they had to first educate patients as to why the dental program was conducting depression screenings in the first place. Ft. Belknap, for example, provided one-on-one education to patients while conducting the screening. Several programs, including St. Regis Mohawk, Ft. Belknap, Hopi, and Ketchikan, also spent time educating dental staff about why the depression screenings were needed so that they would get staff buy-in. A few programs also had high staff turnover which also affected staff buy-in. Crownpoint, which lost their dental chief a month into the project, dropped out even after the chief executive officer/clinical director was invited to each of the webinars. Bad River hired a new dental director in the middle of the project.

In hindsight, one of the faults of this project was that there was no effort at the national level to inform behavioral health providers at the demonstration sites about the project. Consequently, some of the dental programs had some communication barriers that had to be identified and improved. Consolidated Tribal Health, for example, reported that behavioral health questioned why the screenings were being performed by dental staff and what impact such screenings would have on their workload. Other communication issues also existed. Ft. Belknap was unable to make direct referrals to behavioral health and had to work through the nursing program. Taos-Picuris was unable to make "warm hand-offs" to the behavioral health department at their request. Ketchikan, while currently having no issues with communicating with behavioral health, worried that a future move of behavioral health out of the ambulatory facility would affect future referrals from the dental program.

Documentation and coding issues permeated each of the webinars, and each of the participating demonstration sites chose unique ways to address tracking and documentation. The Crow Service Unit, for example, utilized an Electronic Health Record (EHR) questionnaire that was already embedded in a screening template in their EHR (Attachment 6). Chemawa utilized the PDSA document (Attachment 7) to document improvement in tracking screenings. Taos-Picuris utilized the previously mentioned GPRA Screening Tool (Attachment 5) to record the screenings into the EHR. White Earth, as well as others, utilized a "user-defined" code (identified locally as IH33 through IH49) to mark depression screenings so that they could be tracked. Overall, there was not a single coding/documentation problem, nor was there a single coding/documentation solution.

Lessons Learned, Moving Forward

The major lesson learned by demonstration sites was that each site was unique in how they implemented depression screenings in the dental program, from their existing communications and referral processes to staff buy-in to documentation and coding. Several of the programs embraced the direction given by the IPC team, and attached to this report include an example of an Ami Charter from Chemawa (Attachment 8) as well as an example of a PDSA from White Earth and (Attachment 9).

What is next for depression screenings in I/T/U dental programs? Because this demonstration project showed that with no financial incentive whatsoever (the IHS did not provide any funding to participating sites), dental programs not only embraced depression screenings but did so with remarkable results — a 1200% increase in patients screened and a 400% increase in referrals, all in less than six months, replication of this project should be possible. Like other IHS Division of Oral Health initiatives, we plan to utilize the demonstration sites to serve as subject matter experts to describe to programs how they implemented depression screenings in their dental programs.

Below is a description of how depression screenings will be promoted through I/T/U programs in FY 2017 and FY 2018:

- July 2017, with the roll-out of GPRA Year 2018: E-mail on IHS Dental Listserv, and promotional flyer on the IHS Dental Portal, to promote depression screenings in dental programs;
- November 2017: Continuing Dental Education recorded webinar promoted to IHS, Tribal, and Urban dental staff; and
- Other promotions throughout the year through the IHS Oral Health Promotion/Disease Prevention Program.

Attachments

- Attachment 1 Depression Pilot Project Flyer
- Attachment 2 PHQ-2, Scored Version, incorporated into the IHS Form 42-1
- Attachment 3 PHQ-2, Scored Version, Adult
- Attachment 4 PHQ-2, Scored Version, Adolescent
- Attachment 5 Dental GPRA Screening Form
- Attachment 6 EHR Questionnaire, Crow
- Attachment 7 PDSA Example, Chemawa
- Attachment 8 Ami Charter, Chemawa
- Attachment 9 PDSA Example, White Earth

IHS Division of Behavioral Health-Oral Health

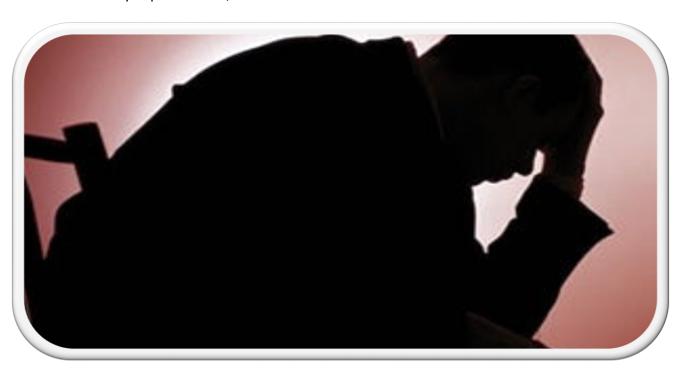


Depression Screening Pilot Project

The IHS Division of Oral Health, in partnership with the IHS Division of Behavioral Health, is seeking IHS, Tribal, or Urban dental programs who would like to participate in a Depression Screening Pilot Project. The purpose of the project will be to identify best practices related to using the PHQ-2 Depression Screening Tool in a dental setting.

- Pilot Project Period: October 1, 2016—March 31, 2017
- Training on depression screening & follow-up will be provided to pilot project sites
- Approximately \$5,000 (pending funding availability) will be made available for selected pilot sites
- Pilot project sites must participate in monthly conference calls to share progress

If your program is interested in being part of this project, please contact your Area Dental Officer by September 15, 2016.



The Patient Health Questionnaire-2 (PHQ-2)

Over the past 2 weeks, how often have you been bothered by any of the following problems?	Not At All	Several Days	More Than Half the Days	Nearly Every Day
Little interest or pleasure in doing things	0	1	2	3
Feeling down, depressed, or hopeless	0	1	2	3

Attachment 2 - PHQ-2, Scored Version, incorporated into the IHS Form 42-1

IHS-42-1 Page 2 (Rev 8/2012)

DENTAL PATIENT MEDICAL HISTORY

Patient Name:	_DOB:			Chart #:			_
Reason for Dental Visit?		Wher	ı was you last d	ental visit?			
Do You Have a Toothache Now? (Please Circle) Yes No If	Yes, or	n a scale of	1-10, with 10 be	eing the most pain	ful, what is your pain le	evel?	
f you are unsure of how to answer any of the questions following? (Please check)	s below	, please as	k dental staff f	or help! Do you h	nave or have you had	any of t	he
	Yes	No				Yes	No
*Organ Transplant Date:		E	Epilepsy, Seizur	es, or Nervous Sy	stem Disease	T	
*Joint Replacement (hip, knee, ankle, shoulder)			Stroke	· · · · · · · · · · · · · · · · · · ·			
Date:			Alleray to latex.	odine, or red dve	(circle all that apply)		
*Artificial Heart Valve Date:				al or local anest	113:		
*Congenital Heart Disease, Defect, or Heart Murmur:			Cancer/tumors -		Туре:	+	
*Bacterial Endocarditis (SBE)				or Radiation Dat		+	
* Kidney Problems or Dialysis (circle)				currently or in p		+	1
*Spleen removed			Asthma, or other		bast (circle)	+	
Steroid Use (e.g. prednisone) Dates:			Jicers	Lung Discuse		+	
HIV or AIDS or do you believe you have been exposed?			Arthritis			+	+
Lupus (SLE)			Osteoporosis			+	
Rheumatoid Arthritis				s High or	Low (oirolo)	+	
					LOW (CITCIE)	+	
Diabetes: Type I Type II (circle) Other Immunosuppressive Condition:			Mental Health C		oguiros enocial	+	
I I			•	tal Disability that r	equires speciai		
Hepatitis treated in past or currently active Type:			consideration:	domos /oloobal /o	Harr drugs)	+	-
Other Liver Disease				idency (alcohol /of	iner arugs)	+	-
Pacemaker / Defibrillator or other Artificial Device / Implant		L		r chew tobacco?	Win = 0		+
Date:		+ + ,		u interested in qui	uing?		
Congestive Heart Failure		<i>H</i>	Any other diseas	se or condition?			
Heart Disease or Heart Attack Dates:		 				 	+
Chest Pain / Angina			NOMEN ONLY:				-
High Blood Pressure			Are you pregnar			 	+
Have you or are you taking blood-thinners?			Are you nursing				
Anemia or Abnormal Bleeding or Bruising			Are you taking b	irth control?			
Depression Screening Questions:			Not at all	Several days	More than half		y every
Over the past 2 weeks have you been bothered by:					the days		lay
Little interest or pleasure in doing things			0	1	2 2	 	3
Feeling down, depressed, or hopeless			0	1	2	L	3
List any medications that you are allergic to and what type of	of reaction	on:					
List medications you currently take (including over-the-coun	iter drug	j s):					
Date of last medical appointment	Prima	ary Care Pro	ovider Name				
Have you ever been hospitalized? Wher	n and W	/hat for?					
Do you have any disease, condition, or problem not listed?	No □	Yes □ (If y	es, specify)				
MPORTANT! The answers I have given above are true tests and procedures such as x-rays, cleaning, fillings, myself or the below named minor in my guardianship.							С
Signature (Patient or guardian if patient is a minor)			 Date				
Signature (Dentist/Hygienist)			Date				

Patient Health Questionnaire-2 (PHQ-2) – Adult Scored

NAME:	DATE:

Over the last 2 weeks, how often have you been bothered by any of the following problems? (use "X" to indicate your answer)

	Not at all	Several days	More than half the days	Nearly every day
Little interest or pleasure in doing things	0	1	2	3
Feeling down, depressed, or hopeless	0	1	2	3

Patient Health Questionnaire-2 (PHQ-2) – Adolescent (12-17) Scored

NAME:	DATE:

Over the last 2 weeks, how often have you been bothered by any of the following problems? (use "X" to indicate your answer)

	Not at all	Several days	More than half the days	Nearly every day
Little interest or pleasure in doing things	0	1	2	3
Feeling down, depressed, irritable, or	0	1	2	3
hopeless				

Taos Picuris Service Unit REQUIRED SCREENING TOOL FOR EVERY PATIENT

Ages 12 years and Over

- Please Complete the Following - Thank You

DEPRESSION		
n the last <u>TWO</u> weeks, how often have you:		
Felt down, depressed or hopeless? (Please check ofNot at all (0)Several days (1)More	· · · · · · · · · · · · · · · · · · ·	
Not enjoyed or lost interest in doing things that yNot at all (0)Several days (1)More		
If you are feeling depressed or have a history of d	epression are you? Currently taking medicaReceiving regular therapWant to request help	
ОВАССО	want to request neip	
A.) Tobacco (Smokeless – Chewing/Dip) 1Cessation – Smokeless 2Current Smokeless	B.) Tobacco Exposure 1Exposure to Environmental Tobacco Smooth	ke
 Never Used Smokeless Tobacco Previous (Former) Smokeless Smokeless Tobacco, Status Unknown 	3Smoker in Home	
C.) Tobacco (Smoking)		
 Ceremonial Use Only Current Smoker (Some Days) Heavy Tobacco Smoker Never Smoked Smoking Status Unknown 	 Current Smoker (Every Day) Current Smoker (Status Unknown) Light Tobacco Smoker Previous Smoker 	
ALCOHOL/DRUGS		
I do not use Alcohol or Drugs (If your answer is NO, go to	the next Topic)	
 Have you ever felt you should CUT down on your alcohol. Have people ANNOYED you by criticizing your drinking of the second of the	or drug use?YesNo	
 Have you ever had a drink or used drugs first thing in th steady your nerves or get rid of a hangover or get the d 	-	
DOMESTIC VIOLENCE/INTIMATE PARTNER RELATION		
 Do you feel SAFE with the people you live with or spend Are you afraid to go home? 	I time with?YesNoWar	nt Help nt Help

REQUIRED SCREENING TOOL FOR EVERY PATIENT Ages 1 Day to 11 years old

- Please Complete the Following – Thank you

NΑ	ME-DOB-or CHART #	DATE of VISIT	
1.	Is your child exposed to ANY type of Tobacco Smoke?	Yes	
	Please circle one:	a. Ceremonial	
		b. Smoker in Home	
		No	
		a. Smoke Free Home	

EHR Questionnaire

1.	problems? (Check one a. Little interest of ii iii iv b. Feeling down, i iii iii iii iii iiii		on) nings e days	othered by any of the following
2.	Do you use alcohol? Yes, how many drink ab.	YES / NO as do you have on ave 7 or less	rage per we	eek? (Check one)
3.	Do you use tobacco?	YES / NO		
	Check all that apply:	Never used Quit within 6	months	Quit over 6 months ago Exposed to second hand smoke
				Use E cigarettes
			_	Use for ceremonial purposes
4.	Do you feel safe in you			
5.	Physical Activity Level aInactive bSome Active cActive dVery Active	(Check one):		
FOR OF	FFICE USE ONLY:			
Chart N	lumber:	Height:	Weight:	
B/P:	/ P:	Pain (1-10): _		

PDSA Cycle Form for Data Collection & Testing (Please Use Implementation PDSA for Implementation)

Cycle # P#W#	Start Date: End Date:
	Collect Data to Develop a Change ORX_ Test a Change*
CYCLE OBJECTIVE:	Description of Change to be Tested: Develop a process for entering screening data into EHR.
PLAN	What do we want to learn from the Cycle? Learning Questions:
	How will this change increase percentage of patients screened for depression yearly?
	a. Prediction: Increased number of patients screened for depression yearly
/ Act Plan \	How will this change increase the number of patients screened yearly for depression in the dental clinic?
Study Do	a. Prediction: Patients will be screened yearly for depression in the dental clinic
Study Do	3. How will this change increase number of referrals made versus number of positive responses?
	a. Prediction: Patients with positive responses will get a referral to the appropriate
	provider
	4. How will this change increase GPRA measurement for depression screening for all ages for
	FY 2017?
	a. Prediction: Increased number of patient screened for depression
	5. How will this change maintain or increase stakeholder satisfaction? a. Prediction: Patients satisfaction will increase with the additional service
	a. Prediction: Patients satisfaction will increase with the additional serviceb. Prediction: Provider satisfaction will increase
Part 2 of Plan	Test Plan: (if Collect Data Cycle Only Skip this Section)
2 0	What specific change(s) will be tested?
*For Test reference p.	Develop a process for entering screening data into EHR.
171 of Improvement	What issues need to be addressed in the design? (list questions about things which are important to
Guide for Testing	consider as you design the test)
Checklist	How/who will record screenings in the EHR?
**For Implementation	Can the screening be recorded in Dentrix?
Cycle reference p. 185 for Implementation	How will the change be designed and pretested? Who will be involved? Can data be entered in EHR while patient is in the chair?
Checklist	Do all assistants and providers have access to EHR and the knowledge of how to enter data?
***Planning Form for	How will the change be tested once there is a final design? (complete questions below)
Data Collection,	What will be the wide range of conditions?
Improvement	o Adult patients
Handbook, p. 12-11	Adolescent patients
	Where will the test be conducted?
PLAN	 WOSU When will the test be conducted?
^	When will the test be conducted? March 2017
Act Plan	How long will the test last? (5 minutes, an hour, a day, etc.)
1.55	o One week
\Study Do ∫	Who will instruct the participants how to run the test?
	o Dr McLaughlin
	Who will monitor the test?
	o Dr McLaughlin
	Collect Data Plan (Required for all PDSA cycles):
	Using the learning questions, what information and measures are important to collect? Any additions? What Measures/ How will the information be collected? (insert surveys & data collection forms)
	Who will collect the data?
	Dr McLaughlin and Connie Rutledge
	Who will graph the data prior to Study?
	Connie Rutledge
	When will the collection of data take place?
	January 2017
	Observations:
Act Plan	Surprises not part of the plan:
DO (Study Do	
Study DU	
	Did you need to modify the original Plan? If so, why?
	Note: Document modifications in the Plan portion (use different color to note changes ex::"extend test")

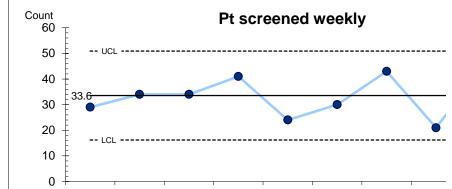
PDSA Cycle Form for Data Collection & Testing (Please Use Implementation PDSA for Implementation)



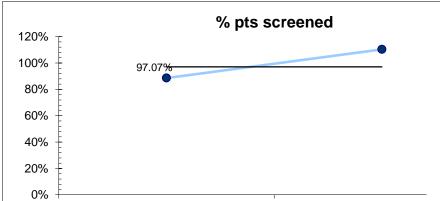
STUDY

Questions: (Copy & paste all Learning Questions and Predictions from Plan above and Insert Graphs.)

- How will this change increase percentage of patients screened for depression yearly?
 - a. Prediction: Increased number of patients screened for depression yearly



- b.
- What did we learn? We have screened an average of 33.6 patients per week in the dental clinic.
- How will this change increase the number of patients screened yearly for depression in the dental clinic?
 - a. Prediction: Patients will be screened yearly for depression in the dental clinic



- What did we learn? By incorporating the depression screening into the annual health history form we have been able to screen 97.07% of first patients seen for their first visit this fiscal year. We have gone from not screening patients for depression to screening 97.07% of patients in the first two months of the project.
- How will this change increase number of referrals made versus number of positive responses?
 - Prediction: Patients with positive responses will get a referral to the appropriate provider
 - Insert graph b.
 - What did we learn? Chemawa students are able to be referred to our behavioral health department but the resources for our community members are very limited. We do have a list of outside resources available for our community member patients.
- How will this change increase GPRA measurement for depression screening for all ages for FY 2017?
 - Prediction: Increased number of patient screened for depression
 - b.
 - What did we learn? At this time the information on our impact on the GPRA scores is unknown. We have learned patients with a diagnosis of depression require biannual screening to meet GPRA requirements.
- How will this change maintain or increase stakeholder satisfaction?
 - a. Prediction: Patients satisfaction will increase with the additional service
 - b. Prediction: Provider satisfaction will increase
 - Insert graph C.
 - What did we learn? d.

New Issues: (include surprises or other things which were uncovered during the test/data collection)

Summarize What We learned from the test: (Write a short explanation of what was learned in total.)

Describe next PDSA Cycle; New Questions to Answer/Decisions made/Action to be taken What action(s) will be taken concerning any New Issues?

ACT Plan Act

 $\Box \alpha$

Study

What action(s) will be taken based on the results of the test? (Expand it?/Abandon/Revise/Test something new)

PDSA Cycle Form for Data Collection & Testing (Please Use Implementation PDSA for Implementation) Recognize subject matter experts, people who conducted the tests, and others who have

Ad Hoc Contributors

contributed to the learning:

Depression Screening: Dental

Describe Project

- Product, process or service Redesign existing
- x Design new product, process or service Improve system as a whole (Drivers, mainstay, support)
- Improvement (best practice) Use an existing working

Brief Description:

depression. Screen all dental patients for

Boundaries:

depression during dental visits

Patients are not screened for

Current Situation:

standardized screening protocol collaborate and ultimately create independently but will routinely Team has latitude. Initially works

Sponsor:

Tim Ricks, DMD

DDS Leader: Michael McLaughlin,

RDH, Connie Rutledge, RDH, Core Team Members: Eddie San Key, Kim Lewis, Kristi Thompson, DMD, Sarah Hiller, Laura Williams, Leh Landeros

Outcome Goal:

Measure: screened yearly for depression All dental patients will be

screened for depression yearly Percentage of dental patients

Process Goal:

screening into health history Incorporate yearly depression

Measure:

yearly for depression in the dental Number of patients screened

Process Goal:

depression screen are referred to Measure: behavioral health or primary care Patients with a positive

number of positive responses Number of referral made versus

Process Goal:

screening for all ages for FY 2017 Help increase GPRA measurement for depression

Measure:

for depression in the dental clinic Percentage of patients screened

increase stakeholder satisfaction Balancing Goal: Maintain or

Measure:

Provider satisfaction rating Patient satisfaction rating

outcome to the Focus on the

people in the same system

automation

health history

Learning Questions:

How will this change increase percentage of patients

screened for depression yearly?

How will this change increase the number of patients

PDSA Objective: Incorporate yearly depression screening into

Standardization/

formal process create a

referred to behavioral health or primary care PDSA Objective: Patients with a positive depression screen are

- Learning Questions:
- How will this change increase percentage of patients
- screened yearly for depression in the dental clinic?
- versus number of positive responses? How will this change increase number of referrals made
- depression screening for all ages for FY 2017?
- How will this change increase stakeholder satisfaction?

Ways ю ::

dental health history.

Learning Questions:

How will this change increase percentage of patients

How will this change increase the number of patients

screened for depression yearly?

screened yearly for depression in the dental clinic?

How will this change increase number of referrals made

versus number of positive responses?

How will this change increase stakeholder satisfaction? depression screening for all ages for FY 2017? How will this change increase GPRA measurement for PDSA Objective: Choose which PHQ-2 is to be incorporated into

customer

Consider

Use reminders

Use reminders

handoffs Minimize

screened yearly for depression in the dental clinic?

How will this change increase number of referrals made versus number of positive responses?

How will this change increase stakeholder satisfaction? depression screening for all ages for FY 2017? How will this change increase GPRA measurement for

screened for depression yearly?

How will this change increase the number of patients

How will this change increase GPRA measurement for

Charter Approval Form

Project Name: **Depression Screening: Dental**

Wave Number: 1 Project Number: 1

WHAT ARE WE TRYING TO ACCOMPLISH?	DESCRIPTION OF PROCESS, PRODUCT OR SERVICE TO BE IMPROVED AND DESIRED OUTCOME: Use the Ami™ Charter Description: Screen all dental patients for depression.			
WHAT TRYI ACCOI	ORGANIZATION IMPACT: Increase number of patients screened for depression. WILL THIS IMPACT THE CUSTOMER? Yes		ESTIMATED TIME SAVINGS Intangible	
HOW WILL WE KNOW A CHANGE IS AN IMPROVEMENT?	GOALS: 1. All dental patients will be screened yearly for depression 2. Incorporate yearly depression screening into health history 3. Patients with a positive depression screen are referred to behavioral health or primary care 4. Help increase GPRA measurement for depression screening for all ages for FY 2017 5. Maintain or increase stakeholder satisfaction	MEASURES: (define) 1. Percentage of dental patients screened for depression yearly 2. Number of patients screened yearly for depression in the dental clinic 3. Number of referrals made versus number of positive responses 4. Percentage of patients screened for depression in the dental clinic 5. Patient satisfaction rating Provider satisfaction rating	CURRENT PERFORMANCE: Currently dental patients are not screened for depression	
TEAM RECOMMENDATIONS	Process and Balancing Measures TEAM LEADER: Michael McLaughlin, DDS TEAM COACH: Tim Ricks CORE TEAM MEMBERS: Eddie Thompson, DMD, Sarah Hiller, RDH, Connie Rutledge, RDH, Laura Williams, Leh Landeros, San Key, Kim Lewis, Kristi Esquivel POTENTIAL AD HOC TEAM MEMBERS: Medical team staff and behavioral health team staff MEETING DURATION/FREQUENCY: Weekly/60 minutes SPONSOR REVIEW SCHEDULE: Monthly			

APPROVALS			
TEAM LEADER:	DATE:		
TEAM COACH: (Can be Faculty)	DATE:		
SPONSOR:	DATE:		

Tips for completing a PDSA cycle using the Model for Improvement

The Model for Improvement, and the PDSA cycle that is part of it, is a framework for applying the five fundamental principles of improvement:

- 1. Knowing what you need to improve.
- 2. Having a feedback mechanism to tell you if improvement is happening.
- 3. Developing a change that will result in improvement.
- 4. Testing a change before implementing it.
- 5. Know when and how to make a change permanent. 1

Step 1: Decide what you want to test

A PDSA cycle begins with deciding what you are trying to accomplis (your aim). Aims should be small and feasible. Rather than aiming to "reach GPRA targets for depression screeing by January 1," an appropriate aim for a PDSA cycle might be, "We want to learn if the hygenist can screen for depression without increasing cycle time." Keep your larger goals in mind but always be thinking of ways to break down a challenge into smaller pieces.

Step 2: Plan your test

Decide the what, where, when, why and who of your test. Test on a small sample of patients, or apointment slots or days. For example, have your hygenist screen two patients next Tuesday and then report back to the team about his experience. You will have the opportunity to expand the test in future PDSA cycles.

Step 3: Do the test and then study the results of the test

One of the most common mistakes made in using the Model for Improvement is to forget to pause after each test and, based on the result of the test, decide what the next steps should be. This step is the robust feedback mechanism discussed in principle 2 above.

Step 4: Run additional tests until you are ready to implement a change

The PDSA cycle is not designed to be run once and then completed. Instead, it is framework for repeatedly testing a change, learning from each test, adjusting subsequent tests based on your growing experience, and repeating until a change works well enough that the whole team is confident the change will be benficial.

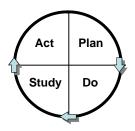
Use the form provided on page 2 of this document to plan your PDSA cycles.

Resources: excellent free videos explaining the use of PDSA cycles are available at the Institute for Healthcare Improvement's web site. Registration is required but is free.

- http://www.ihi.org/education/IHIOpenSchool/resources/Pages/AudioandVideo/Whiteboard
 d5.aspx
 (short "whiteboard" presentations).
- https://www.youtube.com/watch?v=uSncRvw-Iss (56 minutes).

You may also contact the IPC Improvement Advisors to receive coaching in using the Model for Improvement.

¹ Adapted from: Langley, GL, et al, *The Improvement Guide, 2nd Edition,* Jossey Bass, 2009, pg. 25.



MODEL FOR IMPROVEMENT

DATE <u>12/7/16</u>

What Do We Want to Change/Improve? (What are we trying to Accomplish?)

Improve care for the entire patient by adding depression screenings and setting up systems for appropriate referral.

Plan: (What change can we make that will result in improvement?)

Planned Change, answer questions/collect data: Who, What, When, Where

Using new health history form for patients that need to fill out new health histories at Pine Point. Dr. Imler will be administering the screening. This will be run for 2 weeks to see how many are filled out.

Predictions (for tested change based on plan):

There will be approximately 3-4 screenings administered per week and referrals will be completed as needed based on positive findings. The new forms will take adjusting for patients as well as staff, additional time will be needed to fill forms out.

Do:

Carry out the change or test; Collect data and begin analysis.

From 12/7/16 to 2/15/17 there were 21 screenings completed. There were 3 referrals completed in that timeframe.

Study: (How will we know that a change is an improvement?)

Complete analysis of data;

Some of the barriers to implementation were developing a process for referring pt's to mental health, determining method for tracking referrals in EDR, and developing tracking method for EHR so that results would be tracked with GPRA. All were overcome but the process is somewhat complicated and could be difficult to implement with multiple providers. As the baseline was zero referrals, there was a significant and meaningful

increase in referrals to mental health. Because it was from the field clinic, the number of pt's actually following up with care is probably low.

Compare the data to your predictions and summarize the learning

Act:

Are we ready to make a change/repeat test/try something new? Plan for the next cycle

The plan moving forward this will continue at the Pine Point Clinic and it will be tested with Dr. Imler's patients at White Earth for 2 weeks to determine feasibility with larger number of staff and in different setting. After that it will be evaluated for roll out with additional providers.