School-Based Health Center (SBHC) Program Logic Model

Beginning July 1, 2016

SBHC Inputs

- Primary care
- Behavioral health
- Dental
- Youth engagement/ positive youth development
- Health education/promotion
- Outreach
- Insurance enrollment

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Programmatic Outcomes

Utilization
(How much?)

- ☐ Users (demographics)
- ☐ Visits (by type/diagnosis
- ☐ School saturation
- ☐ Indexed comparison

Quality
(How well?)

- ☐ Stakeholder satisfaction
- ☐ Fidelity to SBHC standards
- ☐ Data integrity (including coding)
- ☐ Quality performance measures

Direct impact
(Is anyone better off?)

- ☐ Reported benefits
- ☐ Saved instructional time
- ☐ Screening vs. utilization trends
- ☐ Impact performance measures
- ☐ Risk assessment (eSHQ) measures

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Long-term Population Impact

Improved Health

Improved Academic Performance

Improved Protective Factors

School-Based Health Center (SBHC) Program - Minimum Data Elements

Beginning July 1, 2016

Site-Specific Identification Number	School-Wide Activities:
	☐ Health education ☐ Health promotion
Site-Specific Visit Data:	**Site-Specific Group Activities:**
☐ Date of service ☐ Provider of service ☐ Diagnoses codes ☐ Procedure codes ☐ Insurance coverage by visit	☐ Health education ☐ Health promotion activities ☐ Mental health groups
Site-Specific Totals Provided for each State Fiscal Year:	**Site-Specific SBHC User Information:**
☐ Well child check ☐ Immunizations ☐ Depression and substance abuse screening ☐ BMI screenings and nutrition and physical activity counseling ☐ Oral health screening by primary care provider or dental professional ☐ Chlamydia screening	☐ Student identification number ☐ First and last name ☐ Date of birth ☐ Gender ☐ Race/ethnicity
Site-Specific Enrollment Information:	**Site-Specific Funding and Third-Party Payer Sources:**
☐ Number of unduplicated users served ☐ Number of students enrolled in host school ☐ Number of users who qualify for Medicaid and Child Health Plan Plus ☐ Number of children/youth (ages birth < 21 years) not from host school enrolled in the school-based health center ☐ Number of users eligible for Medicaid or Child Health Plan Plus ☐ Number of users assisted with enrollment in Medicaid, Child Health Plan Plus, and other insurance (public and private)	☐ Federal funds ☐ State funds (other than the SBHC Program) ☐ Local government funds ☐ Private funder/foundation support ☐ Public insurance reimbursement (Medicaid and Child Health Plan Plus) ☐ Private insurance reimbursement ☐ Patient fees ☐ Self-pay ☐ Donations ☐ In-kind support

COLORADO
Department of Public Health & Environment

School-Based Health Center (SBHC) Program Performance Measures

Beginning July 1, 2016

	Measure Topic Area	Definition
School-Based Health Alliance national measure with modification	Annual well-child check (WCC)	Percentage of SBHC users, 3 to < 21 years of age, who received at least one comprehensive well-care visit at a SBHC during the measurement year.
	Depression screening	Percentage of SBHC users, 11 to < 21 years of age, screened for clinical depression ***and*** follow-up plan documented if positive screen during measurement year.
	Annual risk assessment	Percentage of SBHC users, 11 to < 21 years of age, who received an age-appropriate, annual risk assessment during measurement year.
School-Based Health Alliance national measure	BMI assessment and nutrition/ physical activity counseling	Percentage of SBHC users, 3 to < 21 years of age, with documentation of the following: BMI percentile, counseling for nutrition ***and*** counseling for physical activity during measurement year.
	Chlamydia screening	Percentage of SBHC male and female users < 21 years of age identified as sexually active who had ≥1 test for Chlamydia during measurement year.
Non-School-Based Health Alliance national measure	Oral health screening	Percentage of SBHC users, 3 to < 21 years of age, who received an oral health screen by the SBHC primary care provider ***or*** percentage of SBHC users who received an oral health screen by the SBHC dental provider during the measurement year.
	Tdap or Td vaccine	Percentage of SBHC users who received the Tdap or Td vaccine by their 13th birthday.
	Meningococcal vaccine	Percentage of SBHC users who have received the meningococcal vaccine by their 13th birthday.
	HPV series	Percentage of SBHC users who received the Human Papillomavirus (HPV) series by their 15th birthday.

School-Based Health Center (SBHC) Program
Program Evaluation

Beginning July 1, 2016

The evaluation questions are structured on the Results-Based Accountability (RBA) model which asks the questions**: 1.What is being done? 2. How well is it being done? 3. Is anyone better off?** The evaluation questions were developed in collaboration with CDPHE and other stakeholders to create a common-sense framework that allows SBHCs to focus on their processes, performance and outcomes, and target the strengths and challenges of their practice. The following tables contain the primary and secondary evaluation questions along with the indicators, data sources, method(s), timelines, and responsible agency for gathering each of the indicators. These evaluation questions follow the **SBHC Program Priorities: Quality, Quantity, Sustainability and Partnerships.**

EHR = electronic health record. Also referred to as electronic medical record (EMR).
MDS = SBHC Program required minimum data set.
Hub Operations and Sustainability Plan = All SBHC sites receiving CDPHE funds will submit an Operations and Sustainability Plan that is annually revised in the Apex Hub.

Primary Evaluation Question	**1. What level of services are provided by SBHCs? (*How much?*)**			
Secondary Evaluation Question(s)	• How many children and youth birth < 21 years of age are served each year? • How many visits are provided each year? • What types of services are provided? • Is there an increase in the number of children and youth served over time? • Is there an increase in the type of services provided?			
Start date: July 1, 2016				
Indicators/Measures	**Data Source/Tool**	**Method**	**Timeline**	**Responsible Person/ Agency**
# of unduplicated children and youth served, ages birth to < 21 years	MDS—Patient level	EHR data extraction	SBHC submit monthly reports to Apex	SBHC grantee staff and Apex
# and types of visits	MDS—Patient level	EHR data extraction	SBHC submit monthly reports	SBHC grantee staff
# of students enrolled at host school where SBHC is located	Site Operations Plan	Review of Site Operations Plan	End of school year	SBHC grantee staff
Types of insurance	MDS—Patient level and Site Operations Plan	EHR data extraction	SBHC submit monthly reports to Apex	SBHC grantee staff

Total patient revenue	MDS—Site Operations Plan	Review of Site Operations Plan	End of school year	SBHC grantee staff
# school-wide oral health services as defined and collected in Site Operations Plan	Site Operations Plan	Review of Site Operations Plan	End of school year	SBHC grantee staff
# of primary care hours and # of behavioral health hours	Site Operations Plan	Review of Site Operations Plan	End of school year	SBHC grantee staff
Analytic Process/Strategy	• Trends by demographics • Trends by visit types/diagnoses • Index comparison: users served adjusted for hours of operation and school size		Bi-annual aggregate data snapshot reports	Apex

Primary Evaluation Question	**2. Are CDPHE-funded SBHCs delivering quality healthcare? (*How well?*)**			
Secondary Evaluation Question(s)	• Is the quality of services improving over time? • How satisfied are SBHC users with the services provided? • How engaged are SBHC users in development of the services provided?			
Start date: July 1, 2016				
Indicators/Measures	**Data Source/Tool**	**Method**	**Timeline**	**Responsible Person/ Agency**
User satisfaction and experience	User satisfaction and experience survey	Hub Operations and Sustainability Plan and iPad eSolution (optional tool)	At minimum, administer every two years beginning with the 2017-18 school year	SBHC grantee staff
User Engagement	Users who serve on the Community Advisory Committee (CAC) and/or other youth involved in the design and implementation of SBHCs.	Interview/focus group and/or iPad eSolution	At minimum, administer every two years beginning with the 2017-18 school year	SBHC grantee staff, Apex, CDPHE
Parent/legal guardian satisfaction and experience	Parent/legal guardian satisfaction and experience survey, interview and/or focus group*	Survey, interview and/or focus group	At minimum, administer every two years beginning with the 2017-18 school year	SBHC grantee staff, CDPHE

Percentage of SBHC users, 3 to < 21 years of age, who had at least one comprehensive well-care visit at a SBHC during the measurement year	MDS—Patient level	EHR data extraction	Annual report	Apex
Percentage of SBHC users ages 11 to < 21 years with age appropriate annual risk assessment during measurement year.	MDS—Patient level and eSHQ/Just Health or other risk assessment data	EHR data extraction and eSHQ /Just Heath and Hub Operations and Sustainability Plan	Annual report	Apex
Percentage of SBHC users, 3 to < 21 years of age, with documentation of the following: BMI percentile, counseling for nutrition AND counseling for physical activity during measurement year.	MDS—Patient level	EHR data extraction	Annual report	Apex
Percentage of SBHC users, 11 to < 21 years of age, screened for clinical depression and follow-up plan documented if positive screen during measurement year.	MDS—Patient level	EHR data extraction	Annual report	Apex
Percentage of SBHC male and female users < 21 years of age identified as sexually active who had ≥1 test for Chlamydia during measurement year.	MDS—Patient level	EHR data extraction	Annual report	Apex
Percentage of SBHC users who have received the Tdap or Td by their 13th birthday.	MDS—Patient level	EHR data extraction and CIIS	Annual report	Apex
Percentage of SBHC users who have received the meningococcal vaccine by their 13th birthday.	MDS—Patient level	EHR data extraction and CIIS	Annual report	Apex
Percentage of SBHC users who have received the HPV series by their 15th birthday.	MDS—Patient level	EHR data extraction and CIIS	Annual report	Apex

Percentage of SBHC users, 3 to < 21 years of age, who received an oral health screen by the SBHC PCP or percentage of SBHC users who received an oral health screen by the SBHC dental provider during the measurement year.	MDS—Patient level and Site Operations Plan (reported by SBHCs)	EHR data extraction and Site Hub Operations and Sustainability Plan	Annual report	Apex
Analytic Process/Strategy	• Time trends at multiple data points • Repeated measures to examine changes overtime		Annual	Apex

Primary Evaluation Question	**3. Is the integrity of the SBHC encounter data improving over time? (*How well?*)**			
Secondary Evaluation Question(s)	• Do SBHC verify the EHR data? • How are encounter data coded and reported? • How does the coding differ across SBHCs? • How will performance measures be analyzed using the data?			
Start date: January, 2015				
Indicators/Measures	**Data Source/Tool**	**Method**	**Timeline**	**Responsible Person/ Agency**
File format	MDS—Patient level	Review of submitted data using checklist	Monthly (at least the first year)	Apex
Missing fields for MDS	MDS—Patient level	Review of submitted data using checklist	Monthly (at least the first year)	Apex
CPT coding included	MDS—Patient level	Review of submitted data using checklist	Monthly (at least the first year)	Apex
ICD-9/10 codes included	MDS—Patient level	Review of submitted data using checklist	Monthly (at least the first year)	Apex
Demographics included	MDS—Patient level	Review of submitted data using checklist	Monthly (at least the first year)	Apex
Behavioral health (service provided by BH specialist) data included	MDS—Patient level	Review of submitted data using checklist	Monthly (at least the first year)	Apex
Dental data (service provided by dental specialist) included	MDS—Patient level	Review of submitted data using checklist and/or Hub Operations and Sustainability Plan	Monthly (at least the first year)	Apex

Analytic Process/Strategy	#1 Time trending analysis of the data snapshots to track changes and improvement of clinical coding over time. #2 SBHC sites will be required to review and verify the accuracy of data semi-annually.	# 1 Semi -annually #2 Semi-annually	#1 Apex #2 SBHC grantee staff, CDPHE

Primary Evaluation Question	4. What are the reported benefits of SBHC services? (Is anyone better off?)			
Secondary Evaluation Question(s)	• What is the relationship between adolescent access to healthcare and improved health outcomes? • Are there reported health improvements for recipients of SBHC services? • What is the relationship between SBHC and academic performance?			
Start date: July 2016				
Indicators/Measures	Data Source/Tool	Method	Timeline	Responsible Person/ Agency
Relationship between access to healthcare and actual health outcomes	#1 Literature Review #2 Primary Question 1 - Secondary evaluation questions (pg. 4)	#1 Research-links between access and health for adolescents #2 EHR data extraction and review of Hub Site Operations Plans	At minimum, administer every two years beginning with the 2017-18 school year	Apex (CDPHE approves survey)
Stakeholder perspective on SBHC impact on health	User perspective	Survey, interviews and/or focus groups (including virtual methods with sampling)	At minimum, administer every two years beginning with the 2017-18 school year	Apex (CDPHE approves survey)
	MDS - patient level	EHR data extraction	Annually	Apex (CDPHE approves survey)
	Provider perspective	Survey, interview and/or focus groups (including virtual methods with sampling)	At minimum, administer every two years begi nning with the 2017-18 schoolyear	Apex (CDPHE approves survey)

	Parent/legal guardian perspective (for younger SBHC users)	Survey, interviews and/or focus groups (including virtual methods with sampling)	At minimum, administer every two years beginning with the 2017-18 school year	Apex (CDPHE approves survey)
Improved health literacy	User perspective Parent/legal guardian perspective	Survey, interview and/or focus groups (including virtual methods with sampling)	At minimum, administer every two years beginning with the 2017-18 school year	Apex (CDPHE approves survey)
	SBHC provider and staff perspectives	Survey, interview and/or focus groups (including virtual methods with sampling)	At minimum, administer every two years beginning with the 2017-18 school year	Apex (CDPHE approves survey)
Improved protective factors	Change in protective factors over time	eSHQ/Just Health data analysis	Annually	Apex
	# 1 Primary Question – Secondary evaluation questions (pg. 4)	# 1 EHR data extraction and review of Hub Site Operations Plans #2 Survey, interviews and/or focus groups (including virtual methods with sampling)	At minimum, administer every two years beginning with the 2017-18 school year	Apex (CDPHE approves survey)
	Provider perspective	Survey, interviews and/or focus groups (including virtual methods with sampling)	At minimum, administer every two years beginning with the 2017-18 school year	Apex (CDPHE approves survey)
	Parent/legal guardian perspective	Survey, interviews and/or focus groups (including virtual methods with sampling)	At minimum, administer every two years beginning with the 2017-18 school year	Apex (CDPHE approves survey)
Analytic Process/Strategy	• Categorize responses and summarize counts of similar responses. Cross-tabs and time trending analysis to track changes/improvements over time		At minimum, administer every two years beginning with the 2017-18 school year	Apex