## Using the Substance Abuse Prevention Planning and Epidemiology Tool (SAPPET) to Guide Your Prevention Efforts

The Substance Abuse Prevention Planning and Epidemiology Tool (SAPPET) is an interactive online data tool developed and maintained by SAMHSA's Center for the Application of Prevention Technologies (CAPT) to help SAMHSA-funded prevention grantees access and use data to guide their prevention planning efforts. This guide explores the six sections of the SAPPET and demonstrates how practitioners can use each section to access data.

The sections of the SAPPET include the following:

- Data Vizzes Dashboard allows users to access and download national and statelevel data visualizations (or "vizzes").
- Raw Data Analysis enables users to conduct customized cross tabulations comparing the relationships between two variables.

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Substance Abuse Prevention Planning and Epidemiology Tool (SAPPET)

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# Welcome to the Substance Abuse Prevention Planning and Epidemiology Tool (SAPPET)!

The Substance Abuse Prevention Planning and Epidemiology Tool (SAPPET) is an online data tool designed to help SAMHSA-funded prevention grantees access and use data to guide their prevention planning efforts. The effectiveness of SAMHSA's Strategic Prevention Framework (SPF) begins with a clear understanding of community needs. SAPPET offers practitioners immediate access to data that can help them understand and prioritize the substance-related problems their communities face. SAPPET contains 151 behavioral health key indicators from 11 national data sources, and makes these data available by state. Indicators are categorized into substance-related consequences, consumption patterns, and associated risk and protective factors. For a detailed overview of SAPPET, click here.

Data Vizzes Dashboard	Raw Data Analysis
Take a look at topic and/or state-specific dashboards for visualizing data in easily understood graphical formats.	Conduct your own analysis and cross-tabs to generate desired indicator estimates and trends from select SAPPET data sources.
Click Here	Click Here
Indicators by State	Risk and Protective Factors
New key indicator estimates, subgroup analyses, and trends by state for each of the SAPPET data sources.	View research-based risk and protective factors associated with substance misuse and associated mental health problems.
Click Here	Click Here
Emerging Topics and Priorities	Additional Resources
Get data and relevant information on emerging substance misuse priorities and high risk subpopulations.	Access additional resources and T/TA materials related to identifying, collecting, analyzing, and disseminating epidemiological data for prevention planning. Click Here

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http://www.samhsa.gov/capt/

- Indicators by State provides state-level prevalence estimates and customized trend graphs for indicators of substance misuse.
- Risk and Protective Factors helps users identify risk and protective factors associated with substance misuse.
- Emerging Topics and Priorities provides users with access to indicator data for emerging prevention priorities.
- Additional Resources allows users to find resources, tools, and materials to support the collection, use, and dissemination of data.

Practitioners can use SAPPET data in myriad ways—to conduct needs assessments, create epidemiological reports or fact sheets, design presentations, and develop strategic prevention plans. We look forward to hearing how the SAPPET supports your prevention planning, assessment, and implementation efforts!

## To access SAPPET, go to <u>https://www.SAPPET-epi.com/</u> (password: SAPPET)

#### PLEASE NOTE!

- For optimal viewing of the SAPPET, turn off pop-up blockers and view the SAPPET in the most up-to-date version of your web browser. (Firefox and Chrome provide the best browsing experience.)
- While every effort has been made to include indicator data for each state, these data are not uniformly available. Depending on the state, data may be collected every two years or may not be collected at all.

#### DATA VIZZES DASHBOARD

This section allows users to access and download national and state-level data visualizations, or "vizzes". Vizzes are data displayed in graphical or pictorial formats, such as graphs, charts, or maps. Data vizzes provide a clear way to communicate data and allow for easy comparison of data (e.g., maps that display rates of substance misuse by county). Users can customize and download data vizzes for use in reports and presentations, or to share with their epidemiological team or evaluator for planning or analysis purposes.

Data vizzes in this section are sorted either into national- or regional-level data visualization pages (e.g., Northeast, Southeast, Central, Southwest, or West). As new state- and national-level data vizzes are added, this section will be expanded. *Please contact your CAPT liaison if you wish to discuss creating data vizzes to support your state's data needs.* 



**Do It Yourself!** Click on the *Data Vizzes Dashboard* link on the SAPPET landing page.

Next, click on the *View National-level Data Vizzes* link. If you have trouble accessing this page, make sure you enable "pop-ups" in your browser options.

#### Data Vizzes Dashboard

Take a look at topic and/or state-specific dashboards for visualizing data in easily understood graphical formats.

**Click Here** 

#### Sappet's Data Vizzes Dashboard

This section allows users to access and download national and state-level data visualizations (or "vizzes"). Vizzes are data displayed in graphical or pictorial formats, such as graphs, charts, or maps. Data vizzes provide a clear way to communicate data, and allow for easy comparison of data (e.g., maps that display rates of substance use by county). Users can customize and download data vizzes for use in reports and presentations, or to share with their epidemiological team or evaluators for planning or analysis purposes. To access national and state-specific dashboards, click on one of the following links.

View National-level Data Vizzes	View West Regional Team Data Vizzes
Take a look at national-level dashboards for visualizing data in easily understood geographical formats.	Take a look at state-level dashboards for visualizing data in easily understood geographical formats.
Click Here	Click Here

A new browser window will open up displaying an interactive data visualization tool (Tableau Public). This page currently displays national data for opioid treatment admissions from SAMHSA's Treatment Episode Data Set (TEDS) and opioid data vizzes for three states: Maryland, Minnesota, and Illinois. Select a visualization from the available vizzes. In this example, we selected *Heroin and Other Opioids – TEDS* data.

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Vizzes 4						
EDDS by Sharin and Have Map	PDDasthiles m m m m m m m m m m m m m m m m m m m	Menna and Other Brends Anveland Papers Dennis da anterna series Series	The set of the factor between the set of the factor between the set of the s		adi Berna de Cher Bando de Cher Berna (Bostan) Berna (Bostan) Bern	
Heroin and Other Opioids - TEDS 432 views	Maryland Dashboard - State and Local Data	Minnesota Opioids Ov 145 views	erdose Deaths	Illinois Hero Deaths	in and Other Op	ioids Overdose

This data visualization displays treatment admission data for opioids by state and year. When you hover over a state with your mouse, a snapshot of the state's treatment admissions data for the selected year will appear.

Options for filtering the data appear to the right (e.g., Year, Total Number of Treatment Admissions, Percent of Admissions for Opioids, and Percent of Admissions for Heroin). You can manipulate these filters by dragging the markers on the sliding bars to the right or left to view different data ranges. For example, this map color-codes states according to the number of opioid-related admissions. If you increase the minimum "Total Admissions" number by sliding the marker to the right, you will limit the number of states that appear. Other filtering options allow you to manipulate which data to include in the map and what years to display so that you can customize the map to suit your reporting needs.



#### **RAW DATA ANALYSIS**

The Raw Data Analysis Engine (SAPPET-RD) allows users to build customized cross tabulations (crosstabs) to compare the relationship between two variables. Crosstabs help users identify correlations across two indicators (e.g., binge drinking and depression) and uncover how these correlations may vary based on certain characteristics (e.g., gender, race, and age). Crosstabs can help users better understand their prevention priority and select prevention strategies that have the potential to influence both indicators.

Data sources included in SAPPET currently include CDC's Behavioral Risk Factor Surveillance System (BRFSS) and SAMHSA's Treatment Episode Dataset (TEDS). Additional data sources will be added in the future. Please note that indicator data is not available for every state and/or year. Depending on the state, data may be collected every two years or may not be collected at all.



**Do It Yourself!** Click on the *Raw Data Analysis* link on the SAPPET landing page and the tool will open up in a new browser window. If you have trouble accessing this section, make sure you enable "pop-ups" in your browser options.

#### Raw Data Analysis

Conduct your own analysis and cross-tabs to generate desired indicator estimates and trends from select SAPPET data sources.

Click Here

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URFSS	
TEDS	Nelcome to the Substance Abuse Prevention Planning and Epidemiology Tool's Raw Data Analysis Engine, an interactive tool that allows users to run online analysis and cross-tabs to generate dealered substance abuse estimates from select raw datasets. Currently the tool provides access to key indicators from Center for Disease Control's (CDC) Behavioral Risk Factor Surveillance System (BRFSS) dataset, and will be updated in the future to include Substance Abuse Mental Health Services Administration's (SAMHSA) Treatment Episode Dataset (TEDS) and National Highway Traffic Safety Administration's (NHTSA) Fatality Analysis Reporting System (FARS) dataset.
	To start creating your own custom queries, select the "BRFSS" menu on the left side of your screen.
	Disclaimer: SAPPET-RD generates indicator estimates from publicly available raw datasets from national sources. While we make every effort to post accurate and reliable information, we cannot guarantee that this information, in its original form, is complete, accurate, or up-to-date. Further, we assume no responsibility for the use or application of any posted material, or for any discrepancies between the estimates included in the system and the original data source. Finally, we are not responsible for the

To build a customized crosstab, first select a data source from the menu to the left of the page. In this example, we chose *BRFSS*.

The following page features several tabs at the top (Year and State, Topics, Get Results) and two optional filters (Population Limits and Statistical Options). In the example that follows, we will use each of these tabs to create a customized analysis.

Select the year and state(s) for which you want data. You can choose to include all states (to review national trends) or select specific states. For this example, we selected the 2013 survey year and *Include All* states in our new query.

Substance Abus	e Prev	vention Planning and Epidemiology Tools Raw Data Analysis Engine (SAPPET-RD)
Home Contact Us	Close	e Window
START NEW QUERY		SAPPET-RD > BRFSS OPTIONAL FILTERS
Query Summary		YEAR AND STATE TOPIC(S) GET RESULTS POPULATION LIMITS STATISTICAL OPTIONS
Selection	Delete	Year and State
Year and State		
Topic(s)		2013 V
Population Limits		State Include All
Statistical Options		<ul> <li>✓ AK</li> <li>✓ AZ</li> </ul>
		I AR
		I CA
		M CT
		Ø DE
		M DC
		⊮ FL
		⊠ GA
	_	⊗ HI

To select indicators for your custom analysis, click on the *Topic(s)* tab. View the list of indicators by clicking on the plus (+) sign to expand the Demographics, Substance Use/Abuse Indicators, or Risk and Protective Factors topics. In this example, we expanded *Demographics*.

Substance Abuse	Prevention Planning and Epidemiology Tools Raw Data Analysis Engine (SAPPET-RD)
Home Contact Us	Close Window
START NEW QUERY Query Summary	SAPPET-RD » BRFSS     OPTIONAL FILTERS       YEAR AND STATE     TOPIC(S)       GET RESULTS     POPULATION LIMITS       STATISTICAL OPTIONS
Selection Dele	te Topics ? Enter Keywords Search
Year and State Survey year 2013	BROWSE TOPICS Browse
Topic(s)	<ul> <li>Demographics</li> <li>Substance Use/Abuse Indicators</li> </ul>
Population Limits	Risk and Protective Factors
Statistical Options	

Select the first indicator for your crosstab analysis by clicking on the green "Add" box. For this example, we chose the "Reported gender" indicator.

Substance Abuse Pr	evention Pl	anning and	Epidemiol	ogy Tool	s Raw Data Analysis Eng	ine (SAPPET-RD)
Home Contact Us Cl	ase Window					
START NEW QUERY Query Summary Selection	Delete	VEAU AND STATE TOPICS	Enter Keyword	ант невол та 25	CPTICHAL PLITERS POPULATION LINITS STATISTICAL (Search)	OPTIONS
Year and State Survey year 2013		BROWSE	TOPICS Brows	9		
Topic(s) Population Limits Statistical Options	-	Select Topic	Reported gene listed under D	Ser emographica	Demographics	Show More Information
		-	Reported race listed under D	ethnicity cate	gories	
		-	Imputed age in listed under D	n six age grou emographica	ip categories	٠
			Level of Educ	ation Complet	ied	
			EMPLOYMEN	T STATUS emographics		•
			5-level income listed under D	r categories emographica		•
		-	PREGNANCY	STATUS		

To choose your second indicator for your crosstab analysis, click back to the *Topic(s)* tab and click on the plus (+) sign to expand another topic. In this example, we expanded *Substance Use/Abuse Indicators* and selected "binge drinking in the past 30 days" by clicking on the green "Add" box.

Substance Abuse Pr	revention Pl	anning and	Epidemiology Tools Raw Data Analysis Engine (S	APPET-RD)
Home Contact Us Cl	lose Window			
START NEW QUERY Query Summary Selection	Delete	SAPPET-RD + BI	TOPIC(S) GET RESULTS POPULATION LIVETS STATISTICAL OPTIONS Enter Keywords Search	
Year and State <u>Survey year</u> 2013		BROWSE	TOPICS Browne	
Topic(s) Population Limits		Select Topic	Substance Use/Abuse Indicators	Show More Information
Statistical Options		-	Any alcoholic beverage in past 30 days listed under <u>Substance Use/Abuse Indicators</u>	٠
	-		Binge drinking in the past 30 days listed under <u>Substance Use/Abuse Indicators</u>	۲
			Smoking cigarettes some days or every day in the past 30 days listed under <u>Substance Use/Abuse Indicators</u>	۲
		•	Smoking cigarette on every day for the past 30 days listed under <u>Substance Use/Abuse Indicators</u>	۲
		•	Driving after having too much to drink listed under <u>Substance Use/Abuse Indicators</u>	۲
		•	Heavy alcohol consumption in the past 30 days listed under <u>Substance Use/Abuse Indicators</u>	۲

Your two selected crosstab indicators will appear in the Selected Topics area. You can choose whether to display the indicators as rows or columns by clicking on the green arrowed button.

Home Contact Us Clo	se Window			
START NEW QUERY Query Summary Selection	Delete	SAPPET.RD + BRFSS YEAR AND STATE TOPIC Topics ? Enter K	(S) GET RESULTS POPULATIO	OPTIONAL FILTERS N LIMITS STATISTICAL OPTIONS
Year and State <u>Survey year</u> 2013 Topic(s) Reported gender	×	SELECTED TOPICS Row Topic 🖾 🍸 Column Topic 🖾 👔	S Reported gender Binge drinking in the past 30	Combine/Reorder Response Categories
Binge drinking in the past 30 days Population Limits Statistical Options		BROWSE TOPICS Demographics Substance Use//	<u>Browse</u> ubuse Indicators ve Factors	
Accessibility   Contact Us				You'll need Adobe Reader to read PDF files

Click on the *Get Results* tab to view a crosstab analysis of your two selected indicators. Crosstab analyses automatically include both column and row percentages, unless this option is de-selected.

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Home Contact Us	Close Window							
START NEW QUERY		SAPPET-RD · BRFSS YEAR AND STATE TO	PIC(S)	GET RESULTS	POPULA		FILTERS STATISTICAL OPTION	5
Selection	Delete	Query Results 7						
Year and State	- 1	Table	Charts	Trends	Maps	Adju	st Layout	🐁 Excel 😝 Print
<u>Survey year</u> 2013	83	QUERY SUMMAR	Y					
Topic(s) <u>Reported gender</u> Binge drinking in the past 30 days	8	BRFSS Topic(s): Reported g Population Limits: S	ender, Bing Survey year	e drinking in 2013	the past 30 da	ays		
Population Limits				Binge drin	king in the p	ast 30 days		
Statistical Options				No	Yes	TOTAL		
		-	Male	77.8%	22.2%	100.0%		
	<u> </u>			45.0%	65.0%	48.3%		
		Reported gender	Female	88.8%	11.2%	100.0%		
				55.0%	35.0%	51.7%		
			TOTAL	83.5%	16.5%	100.0%		

You can modify your crosstab by clicking on the *Statistical Options* tab and selecting different options. You can also manipulate the results to show basic estimates and descriptive statistics, account for missing values, and calculate a chi-square test. In this example, column percentages have been deselected to make the data easier to read.



Select the Get Results tab to view the revised crosstab.

Substance Abuse	Preve	ention Planning and Epiden	niology	Tools I	Raw Dat	ta Analys	is Engine (SAPPET-RD)
Home Contact Us	Close W	lindow					
START NEW QUERY Query Summary Selection	Delete	SAPPET-RD » BRFSS YEAR AND STATE TOPIC(S) GET RE	ESULTS	POPULATIO	OPTIONAL F N LIMITS S	ILTERS TATISTICAL OPTI	ONS
Year and State		Table Charts Tren	ıds M	aps	Adjust	: Layout	🛐 Excel   🔒 Print
<u>Survey year</u> 2013	X						
Topic(s) <u>Binge drinking in the past 30</u> <u>days</u>	×	BRFSS Topic(s): Binge drinking in the past 30 o Population Limits: Survey year: 2013	days; Repo	orted gende	r		
Reported gender	×			D	oported dor	dor	
Population Limits					eponed ger		
Statistical Options				Male	Female	TOTAL	
			No	45.0%	55.0%	100.0%	
		Binge drinking in the past 30 days	Yes	65.0%	35.0%	100.0%	
			TOTAL	48.3%	51.7%	100.0%	

Next, you can click on the *Population Limits* tab to generate estimates within a sub-population. Select which sub-population to include by selecting by gender, race/ethnicity, or age group. Please note that, once selected, estimates are for the selected sub-population only—not the entire sample.

Reported gender Include All Male Female	Reported race/ethnicity categories  Include All  White Black Asian Hawaiin/Other Pacific Islander Hawaiin/Other Pacific Islander Other Multiracial Hispanic Don't know/Refused	Imputed age in six age group categories ✓ Include All ✓ 18 to 24 ✓ 25 to 34 ✓ 35 to 44 ✓ 45 to 54 ✓ 55 to 64 ✓ 65 and over
EARCH FILTERS Enter Keywords Search ROWSE FILTERS Browse Query Topic(s) Demographics	)	

Finally, you can select how data are displayed by clicking on the tabs under "Query Results": *Table, Charts* (for single year data), *Trends* (for multi-year data), or *Maps*. For this example, we selected *Chart*. The *Adjust Layout* tab provides a drop-down menu with options for making adjustments to the presentation format.

Home Contact Us Close	Window		
START NEW QUERY Query Summary Selection Year and State Survey year	Delete	SAPPET-RD - BRFSS VEAR AND STATE TOPIC(S) OUT RESULTS POPULATION LI Query Results ? Table Charts Trends Maps	APTIONAL FILTERS MITS STATISTICAL OPTIONS ACCUSE Layout Excel Print
2013 Topic(s) <u>Reported gender</u> <u>Binge drinking in the past 30 days</u> Population Limits	8	BRFSS Topic(s). Binge drinking in the past 30 days, Reported gender Population Limits: Survey year: 2013	Edit Percentages Combine treorder Response Categories Binge driving in the past 30 days Reported gender Transpose Topics Switch Row and Colume
Statistical Options		80 60 40 20 0 No	Yes Male

#### **INDICATORS BY STATE**

In this section, users can view state-level substance misuse indicator data, customize graphs to compare state and national trends, and compare trends across states (depending on data availability). This tool offers users a comprehensive list of substance-related indicators that they can use to begin their needs assessment and eventually develop data-guided products (e.g., epidemiological profiles).

Indicator data in this section include substance misuse consumption data, related risk and protective factors, and behavioral health consequence data from key national data sources (e.g., Behavioral Risk Factor Surveillance System, CDC Mortality data, National Survey on Drug Use and Health, Treatment Episode Data Set, and Youth Risk Behavior Surveillance System data). Please note that indicator data is not available for every state and/or year. Depending on the state, data may be collected every two years or may not be collected at all.



**Do It Yourself!** Click on the *Indicators by State* link on the SAPPET landing page.

#### Indicators by State

View key indicator estimates, subgroup analyses, and trends by state for each of the SAPPET data sources.

Click Here



Select the type of indicator(s) you want to view: Substance Use/Misuse, Substance-related Consequences, Risk and Protective Factors, Heroin/Other Opioids/NMUPD, and/or Mental Health. Then choose a state in the drop-down menu or click on a state. In this example, we selected Substance Use/Misuse indicators and chose Idaho.



In the column to the left, state-level indicators will appear by data source. Choose one or more indicator(s) and select *Create Charts*. In this example, we chose a single indicator, *Marijuana: Use Before Age 13*. (See the Emerging Topics section for an example with multiple indicators selected.)

Back to Map   Expand All   Collapse All	Idaho
<ul> <li>Idaho</li> <li>State Level</li> <li>Create Charts</li> </ul>	Please select the type of indicators to view at the State or Jurisdiction Level ONLY:
BRFSS     Binge Alcohol Use     Current Alcohol Use     Current Alcohol Use	Substance Use/Misuse       Substance-related Consequences         Risk and Protective Factors       Heroin/Other Opioids/NMUPD         Mental Health Indicators       Heroin/Other Opioids/NMUPD
<ul> <li>Current Cigarette Use</li> <li>Daily Cigarette Use</li> <li>Heavy Alcohol Use</li> <li>NSDUH</li> </ul>	To view graph for a single indicator, click on the data source link on the left-hand panel and then click on the desired indicator. To view multiple indicators, use the check-boxes to select the desired indicators and click on 'create chart'.
<ul> <li>NSDUH</li> <li>Alcohol: Current Use</li> <li>Binge Alcohol Use</li> <li>Cigarettes: Current Use</li> <li>Illicit Drugs-No MJ: Cur. Use</li> <li>Marijuana: Current Use</li> <li>NMUPD: Past Year Use</li> <li>YRBS</li> <li>Alcohol: Current Use</li> <li>Alcohol: Use Before Age 13</li> <li>Binge Alcohol Use</li> <li>Cigarettes: Current Use</li> <li>Cigarettes: Srequent Use</li> <li>Cigarettes: Use Before Age 13</li> <li>Cocaine: Current Use</li> <li>Cocaine: Lifetime Use</li> <li>Heroin: Lifetime Use</li> <li>Inhalants: Current Use</li> </ul>	the desired indicators and click on 'create chart'. NOTE: SAPPET is currently being updated. The left-hand panel list of data sources and indicators will be expanded as they become available on SAPPET.
<ul> <li>Injection Drugs: Lifetime Use</li> <li>Marijuana: Current Use</li> <li>Marijuana: Use Before Age 13</li> <li>MDMA: Lifetime Use</li> <li>Methamphetamine: Lifetime Use</li> <li>Prescription Drugs: Lifetime Use</li> <li>Smokeless Tobacco: Current Use</li> <li>Steroids: Lifetime Use</li> </ul>	

A graph of the indicator data will appear. When you choose a single indicator, you can use the drop-down menus to filter by age, race/ethnicity, and gender; compare data between states; change the years to display; select the chart type; and show confidence intervals.

**Please Note:** If you choose more than one indicator, these formatting options will be unavailable and the analysis for each indicator will appear separately, in sequential order.



#### **RISK AND PROTECTIVE FACTORS**

This section helps users develop a better understanding of and identify risk and protective factors associated with substance misuse. It includes four areas:

- Systematic Review Methods describes the methods used to identify risk and protective factors for school and college age populations (12-25 year olds).
- Using Risk and Protective Factors features a case study that explores how practitioners can use information about relevant risk and protective factors to inform their prevention efforts at each step of SAMHSA's Strategic Prevention Framework (SPF).
- Systematic Review Findings and Products presents resources developed by the CAPT on risk and protective factors, including a literature review specific to college-age young adults. In the future this section will be updated to include data on school-aged youth.
- Access Risk and Protective Factors Data provides risk and protective factor indicator estimates and trends for each U.S. state.



**Do It Yourself!** Click on the *Risk and Protective Factors* link on the SAPPET landing page.

#### Risk and Protective Factors

View research-based risk and protective factors associated with substance misuse and associated mental health problems.

Click Here

Next, click on the Systemic Review Findings and Products link. The example that follows will explore this area.

## **Risk and Protective Factors**

Prevention practitioners have long targeted risk and protective factors associated with behavioral health problems (i.e., substance misuse and mental health problems). However, given the multi-faceted nature of substance misuse and mental health problems, there are several risk and protective factors associated with them, and these risk and protective factors may vary by person's demographic and geographic characteristics. Additionally, research suggests that there are a number of risk and protective factors that are common to both substance misuse and mental health problems (i.e. shared risk and protective factors). To assist SAMHSA's prevention grantees in identifying these factors, the CAPT conducted a systematic review of peer-reviewed literature published between 2000 and 2014 to create a list of research-based risk, protective, and shared factors and associated substance misuse and mental health problems. This section provides an overview on the CAPT systematic review methods, risk and protective factors identified by the review, recommendations on how to use the information in prevention planning, and links to risk and protective factors data on SAPPET.

Systematic Review Methods	Using Risk and Protective Factors
Learn more about the CAPT systematic review methods, search criteria, organizing framework, and limitations. Click Here	Explore ways of using risk, protective, and shared factors to assist prevention planning and decision-making under the Strategic Prevention Framework.
Systematic Review Findings and Products	Access Risk and Protective Factor Data
Download risk, protective, and shared factors, study information (e.g. citation, abstract), and products.	View risk and protective factors data from SAPPET sources for your state, jurisdiction or tribe.

This page describes findings from a systematic review of factors present in the college environment that place youth at increased risk for, or protects them from, substance misuse and/or mental health problems. To download spreadsheets which provide access to the review findings, such as factor and outcome measures, statistical association, abstracts, and citations, select *click here*.



A spreadsheet will download at the bottom of your browser window. When you open it, you will see a variety of tabs at the bottom. These include the following:

- Information and Limitations describes the study, inclusion criteria, criteria for determining if a factor is "shared", and study limitations.
- All Factors includes all factors (both risk and protective) identified by the review (see screenshot below).
- Risk Factors contains a list of all identified risk factors (including those that are shared) and related outcomes.
- Protective Factors contains a list of all identified protective factors (including those that are shared) and related outcomes.
- Outcomes includes a list of all outcomes, allowing users to identify risk, protective, and shared factors associated with a specific outcome.
- *Raw Data* provides access to the raw data for all the factors identified in the systematic review.
- All Citations presents a list of all study citations associated with the systematic review.

The image to the right shows a section of the worksheet for the *All Factors* tab. This worksheet lists all of the risk, protective, and shared factors included in the systemic review. Factors appearing in red font are shared factors—factors associated with both substance misuse and/or mental health outcomes.

Type of factor	Factor	Outcome	Type of outcome	Shared	
Protective Factor		Lifetime NMUPD use	Substance abuse	VEC	
		Lifetime nonmedical opiate use	Substance abuse		
	Participation in college athletics (spectral	Lifetime nonmedical tranquilizer use	Substance abuse		
	Participation in college athletics/sports	Past month marijuana use	Substance abuse	-	
		Past month suicidal ideation	Mental health		
		Past year suicidal ideation	Mental health		
		Lifetime nonmedical stimulant use	Substance abuse		
		Past 2 week binge drinking	Substance abuse	1	
Risk Factor		Past 6 months NMUPD use	Substance abuse		
	Average or Poor academic performance*	Past academic year suicidal ideation	Mental health	VEC	
		Past month binge drinking	Substance abuse	TES	
		Past year NMUPD	Substance abuse		
		Past year nonmedical opioid use	Substance abuse		
		Past year nonmedical stimulant use	Substance abuse		
Protective Factor		Past 2 week binge drinking	Substance abuse	No	
	Assessment of the low of low the later	Past month alcohol use	Substance abuse	No	
	Accenting taith-based institution	Past year NMUPD	Substance abuse	No	
		Quantity of alcohol consumed last time socialized	Substance abuse	No	
Protective Factor		Frequent alcohol use in past month	Substance abuse	No	
	Incohument in student organizations	Frequent drunkenness in past month	Substance abuse	No	
	involvement in student organizations	Past 2 week binge drinking	Substance abuse	No	
		Past month binge drinking	Substance abuse	No	

A key task for SAMHSA's prevention grantees and their epidemiological workgroups is to assess and analyze behavioral health indicator data to identify emerging priorities and subpopulations that warrant further attention. This section of SAPPET provides national and state-level indicator data and other resources for two emerging prevention priorities and subpopulations identified by SAMHSA:

- Tribal Data: This area provides access to key national-level substance misuse indicators for the American Indian/Alaska Native (AI/AN) population.
- Heroin/Other Opioids/NMUPD: This area allows users to view statelevel opioid use/misuse indicator data, customize graphs to compare state and national trends, and compare trends across states (depending on data availability).



**Do It Yourself!** Click on the *Emerging Topics* link on the landing page. In the following example, we searched for several state-level opioid-related indicators at the same time.

#### **Emerging Topics and Priorities**

Get data and relevant information on emerging substance misuse priorities and high risk subpopulations.





Click on Heroin/Other Opioids/NMUPD.

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This page provides a brief introduction to the opioid epidemic, an overview of the opioid-related indicators tool, as well as a link for downloading a spreadsheet of all available opioid-related indicator data at the state level. To access opioid-related indicators by state, click on the link in the last sentence on the page.



Developed under the Substance Abuse and Mental Health Services Administration's Center for the Application of Prevention Technologies task order. Reference #HHSS283201200024I/HHSS28342002T. For training use only. September 5, 2017

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Please note that this section displays the Indicators by State tool with *Heroin/Other Opioids/NMUPD* indicators preselected to confine your search to opioid-related indicators only. To view opioid-related indicator data, select a state from the drop-down menu or click on a state in the map. In this example, we chose *Tennessee*.



Next, we selected the indicators All Opioid-related Overdose Deaths, Illicit Drugs: Dep./Abuse, and Primary Other Opiates/Synthetics Admissions and clicked on Create Charts.

Substance Abuse Prevention Planning and Epidemiology Tool (SAPPET)		
Home Data Vizzes Dashboard Raw Data Analysis	ndicators By State Risk and Protective Factors Emerging Topics Additional Resources Logout	
<ul> <li>Back to Map   Expand All   Collapse All</li> <li>Tennessee State Level</li> <li>Create Charts</li> <li>Mortality <ul> <li>Illicit opioid-related overdose deaths</li> <li>All opioid-related overdose deaths</li> <li>All opioid-related overdose deaths</li> <li>Prescription opioid-related overdose deaths</li> </ul> </li> <li>NSDUH <ul> <li>Illicit Drugs: Dep./Abuse</li> <li>Illicit Drugs: Treatment Gap</li> <li>Illicit Drugs: Treatment Gap</li> <li>Illicit Drugs: No MJ: Cur. Use</li> <li>NMUPD: Past Year Use</li> </ul> </li> <li>Primary Heroin Admissions</li> <li>Primary Other Opiates/Synthetics Admissions</li> <li>Drug Admissions</li> <li>Other Opiates/Synthetics Admissions</li> <li>Other Opiates/Synthetics Admissions</li> <li>Injection Drug Use</li> <li>Prescription Drugs: Lifetime Use</li> <li>Prescription Drugs: Lifetime Use</li> </ul>		

Graphs for each indicator will appear separately, in sequential order. You can select and copy these graphs to provide a snapshot of opioid data from your state to include in data briefs or reports. Please note, to perform a crosstab analysis of the relationship *between* more than one indicator, go to the Raw Data Analysis section.



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#### ADDITIONAL RESOURCES

#### Additional Resources

Access additional resources and T/TA materials related to identifying, collecting, analyzing, and disseminating epidemiological data for prevention planning. Click Here

UILD YOUR EPIDEMIOLOGY

ATA COLLECTION TOOLS

ATA SOURCES TO OMPLEMENT YOUR PIDEMIOLOGY DATA

ATA UTILIZATION

URRENT TOPICS

OUNDATION

This section contains resources, tools, and materials to support dataguided prevention planning through the collection, use, and dissemination of data. It also provides access to other online surveillance tools, such as links to the data dashboards of individual states, data sources for key populations, information on how to use data throughout the Strategic Prevention Framework, and links to SAMHSA tools on building sustainable epidemiology workgroups.

We will continue to update this section as new resources become available. Contact your CAPT liaison and epidemiologist for more information on using these resources.

#### **Questions and Comments**

Please contact Sandeep Kasat, Associate Director of Epidemiology (SandeepKasat@Westat.com)



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#### Substance Abuse Prevention Planning and Epidemiology Tool (SAPPET)

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#### Additional Resources

This page includes resources and materials to support the collection, use and dissemination of epidemiological data throughout the Strategic Prevention Framework (SPF) process. This section will be expanded to include additional resources as they become available.